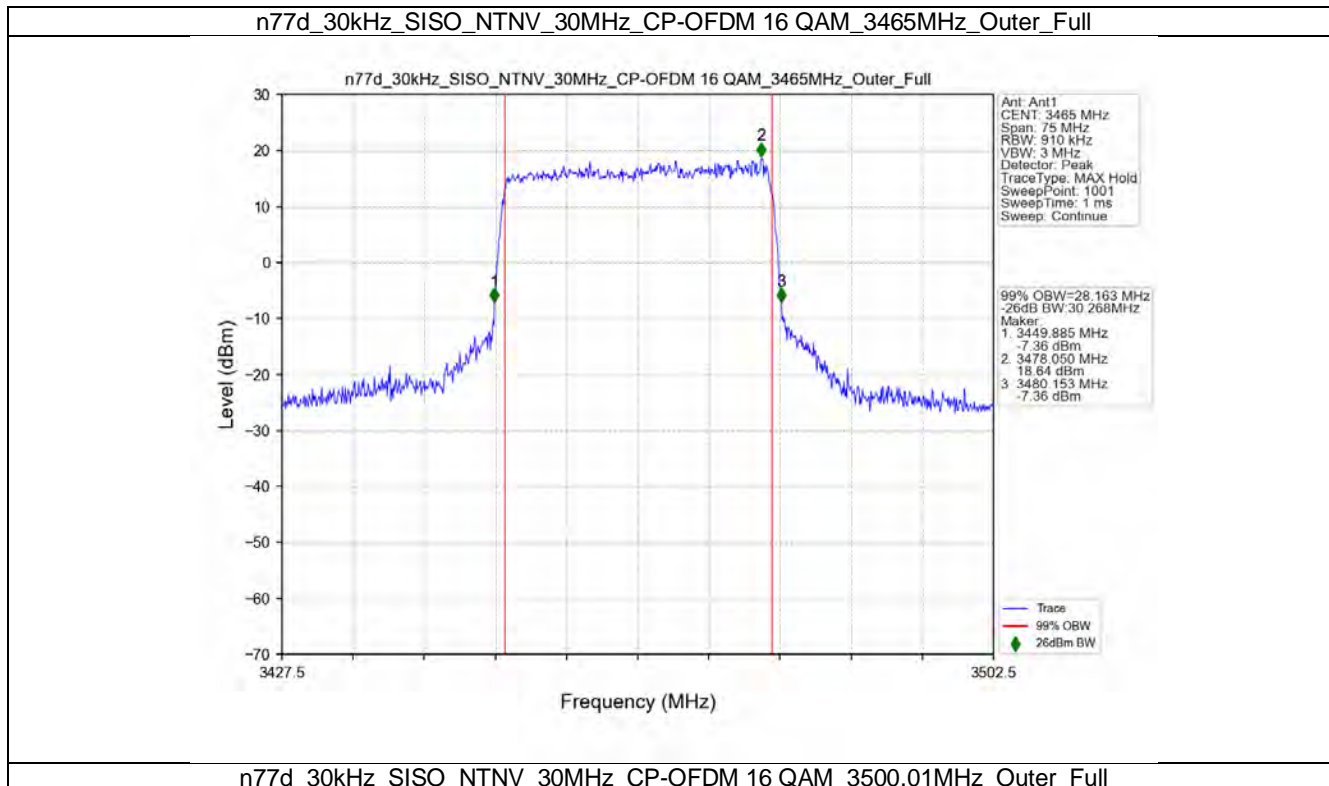




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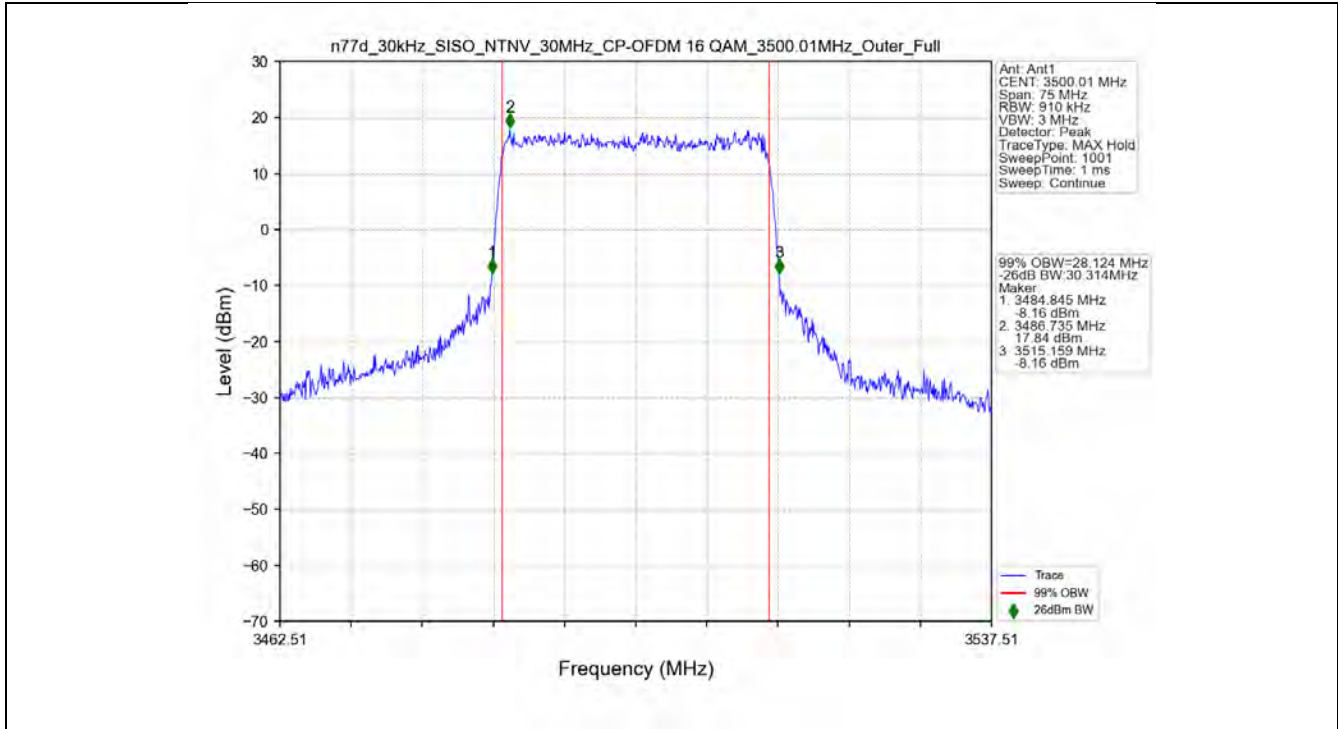


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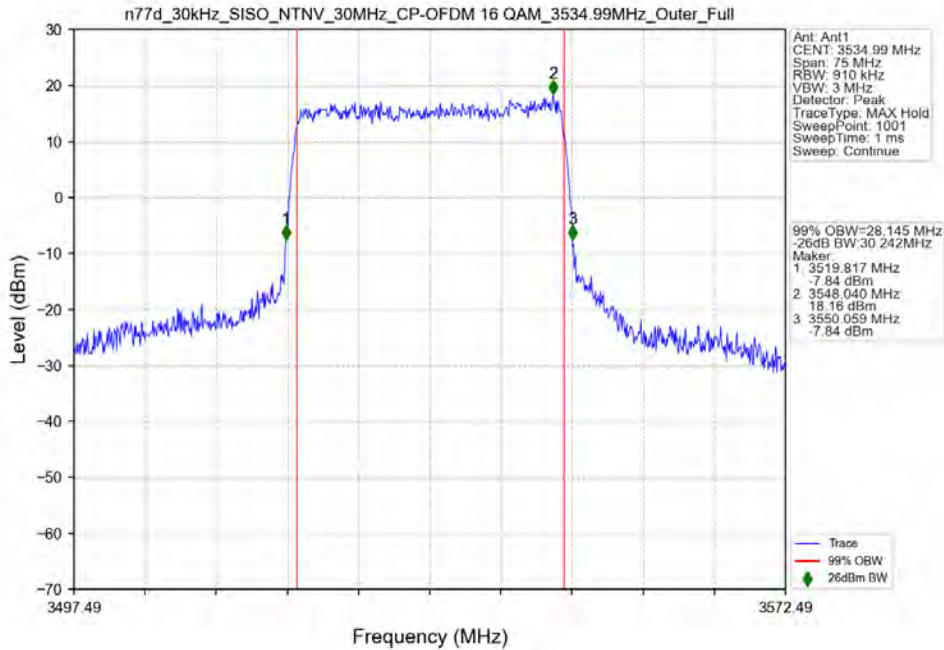
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n77d\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 16 QAM\_3534.99MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM\_3465MHz\_Outer\_Full



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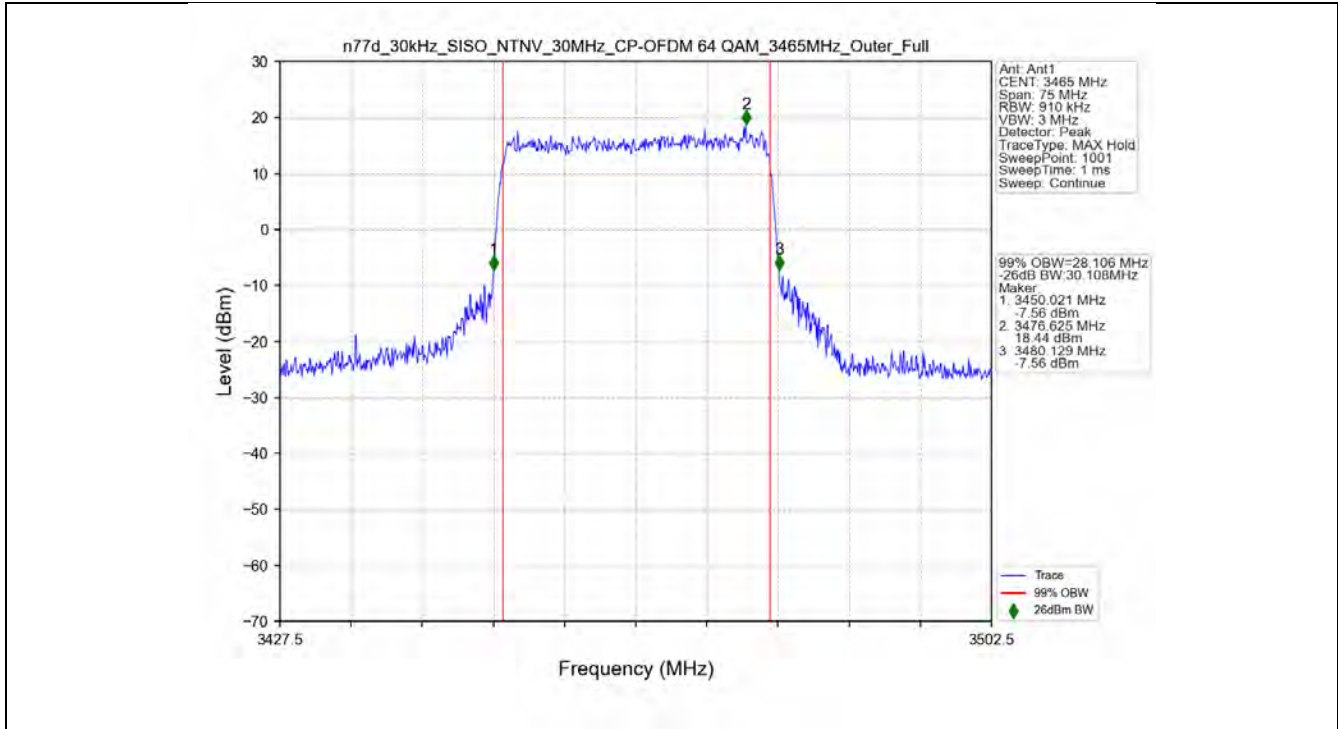


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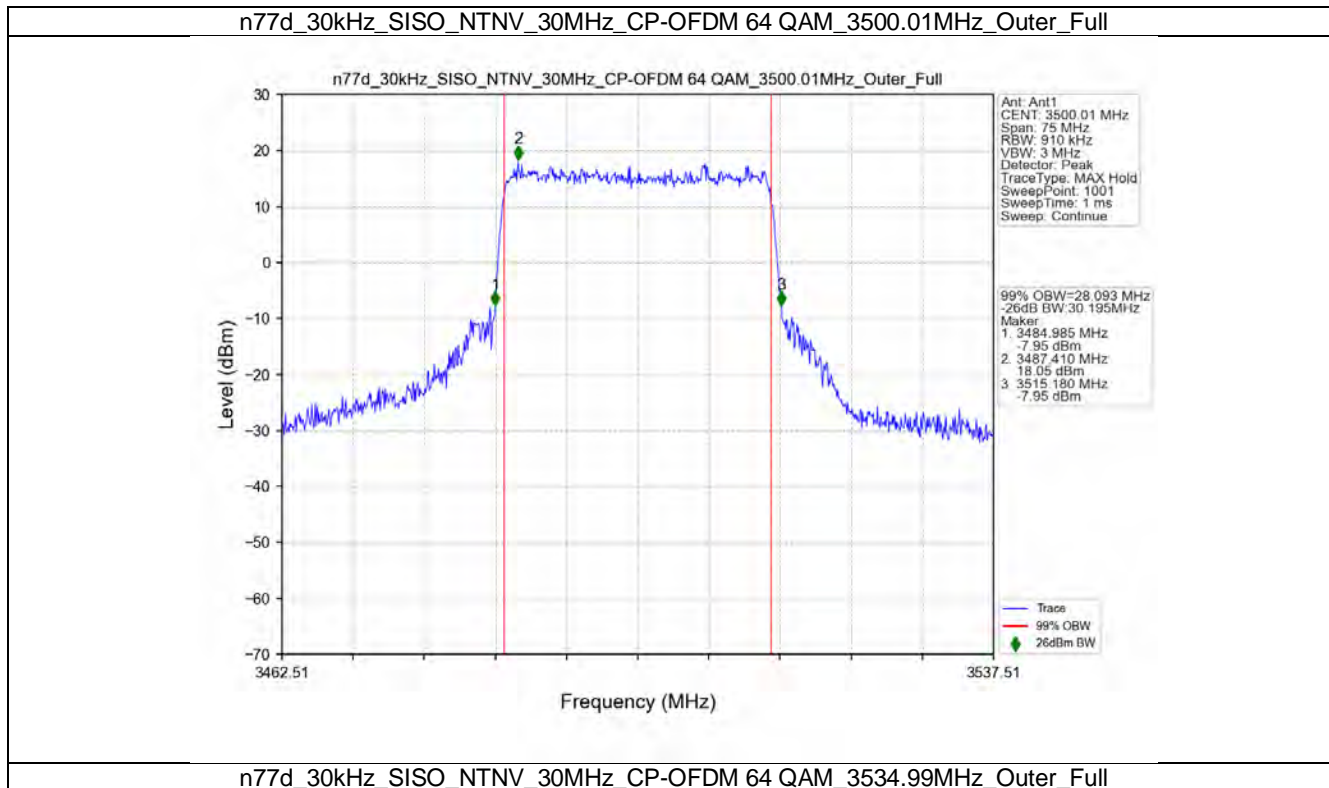
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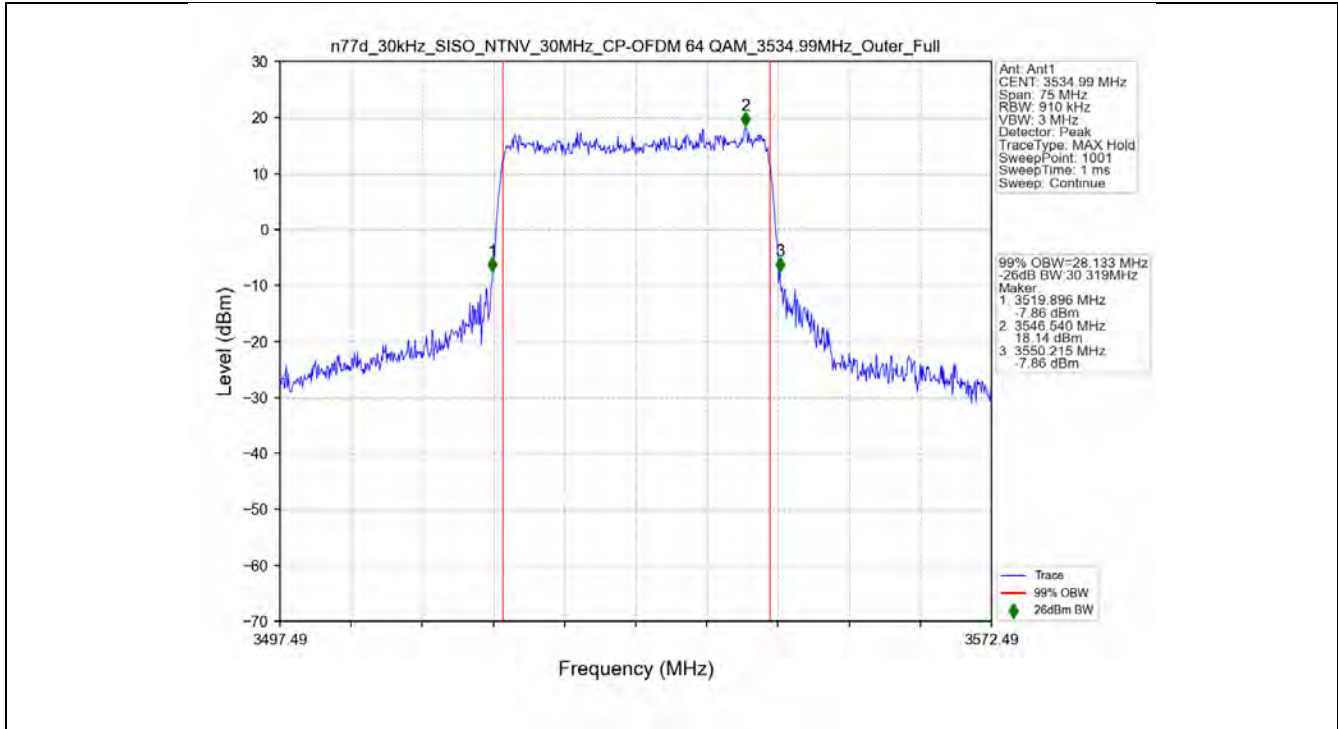


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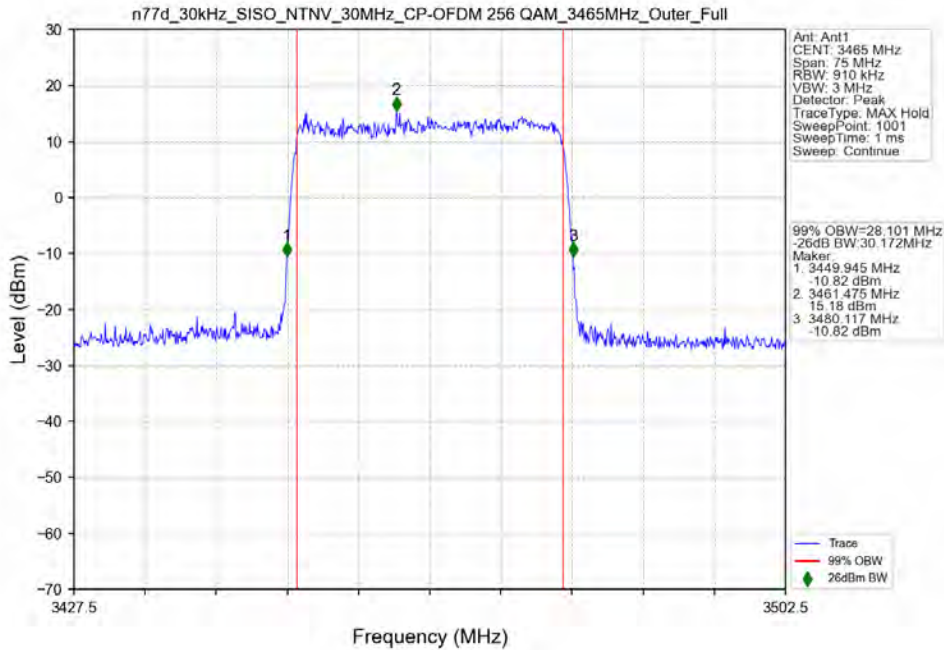
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n77d\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 256 QAM\_3465MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 256 QAM\_3500.01MHz\_Outer\_Full



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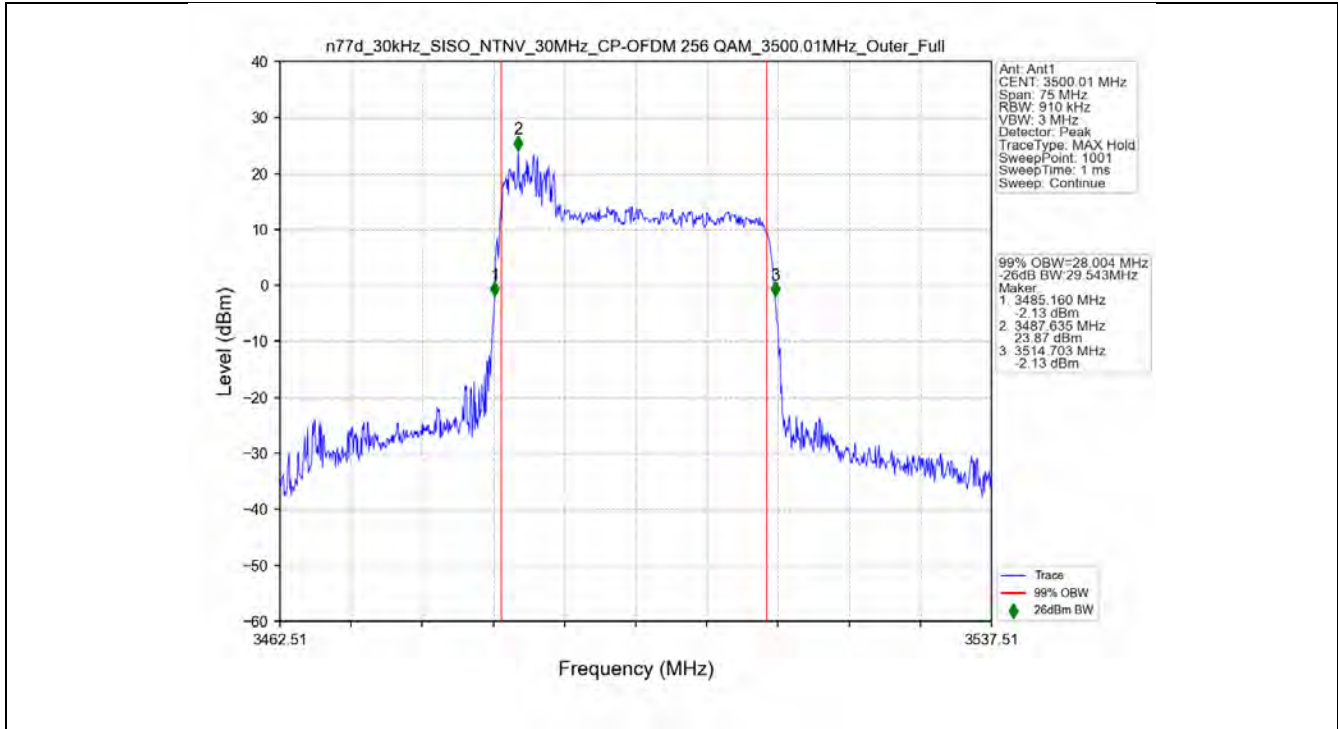


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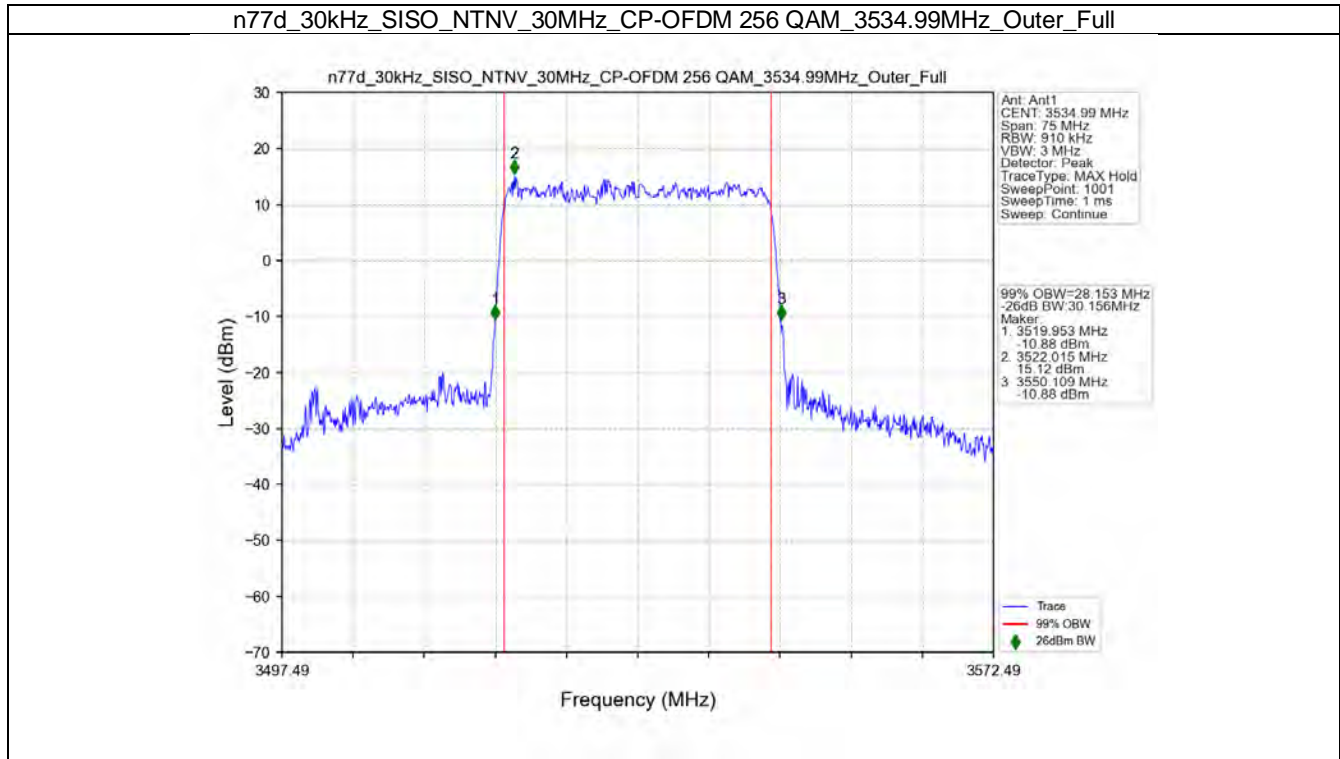


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## 3.3 30k\_SISO\_40MHz\_NTNV

### 3.3.1 Test Result

5G NR n77d SCS=30kHz SISO 40MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3470.01	Outer_Full	35.93	38.54	/	Pass
	3500.01	Outer_Full	35.92	38.69	/	Pass
	3529.98	Outer_Full	36.03	38.65	/	Pass
DFT-s-OFDM QPSK	3470.01	Outer_Full	36.11	38.73	/	Pass
	3500.01	Outer_Full	36.08	38.72	/	Pass
	3529.98	Outer_Full	36.08	38.74	/	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer_Full	36.09	38.71	/	Pass
	3500.01	Outer_Full	36.27	38.51	/	Pass
	3529.98	Outer_Full	36.18	38.80	/	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer_Full	35.99	38.70	/	Pass
	3500.01	Outer_Full	36.16	38.45	/	Pass
	3529.98	Outer_Full	36.14	38.84	/	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer_Full	36.18	38.44	/	Pass
	3500.01	Outer_Full	36.11	38.72	/	Pass
	3529.98	Outer_Full	36.08	38.13	/	Pass
CP-OFDM QPSK	3470.01	Outer_Full	38.10	40.32	/	Pass
	3500.01	Outer_Full	38.11	40.77	/	Pass
	3529.98	Outer_Full	38.19	40.94	/	Pass
CP-OFDM 16 QAM	3470.01	Outer_Full	38.27	40.51	/	Pass
	3500.01	Outer_Full	38.21	40.77	/	Pass
	3529.98	Outer_Full	38.19	41.05	/	Pass
CP-OFDM 64 QAM	3470.01	Outer_Full	38.23	40.87	/	Pass
	3500.01	Outer_Full	38.26	40.85	/	Pass
	3529.98	Outer_Full	38.26	40.76	/	Pass
CP-OFDM 256 QAM	3470.01	Outer_Full	38.27	40.84	/	Pass
	3500.01	Outer_Full	38.32	40.95	/	Pass
	3529.98	Outer_Full	38.30	41.03	/	Pass



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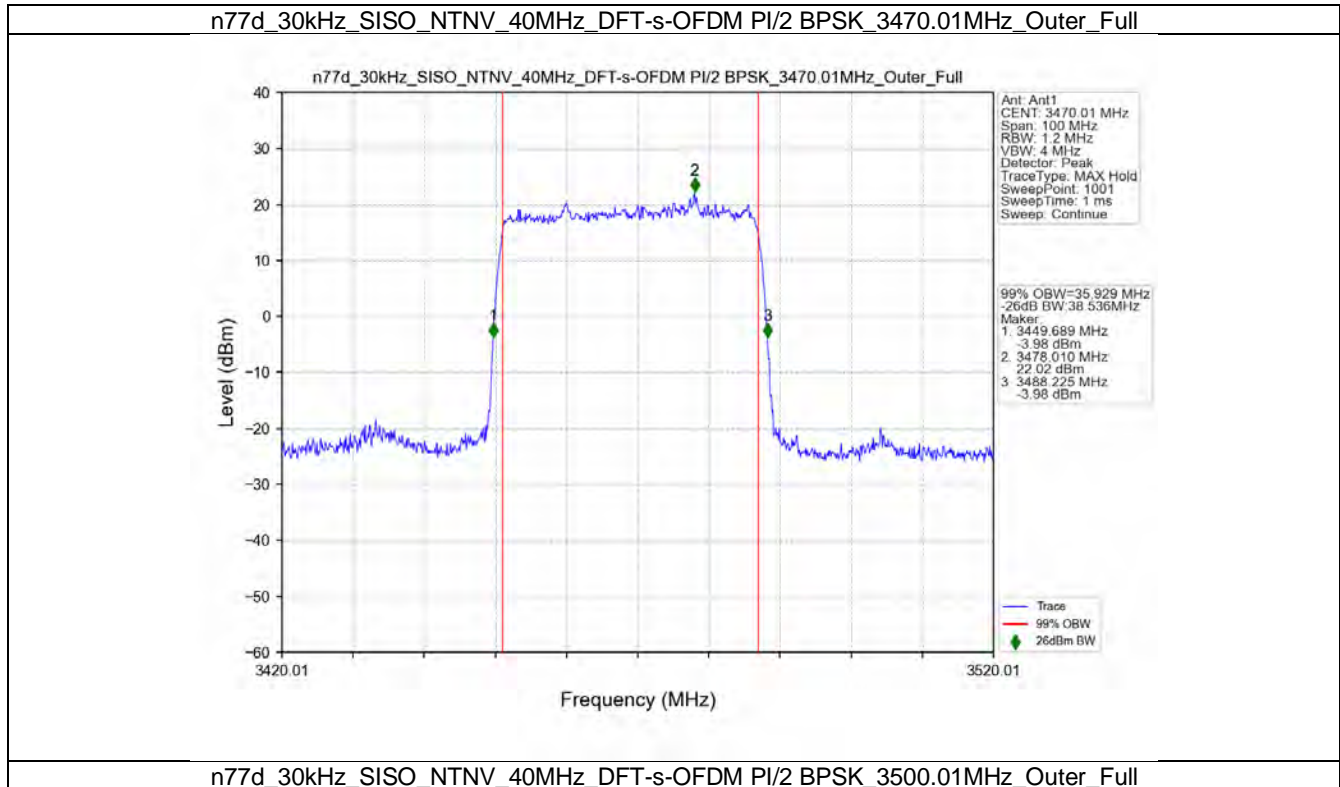
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3.3.2 Test Graph



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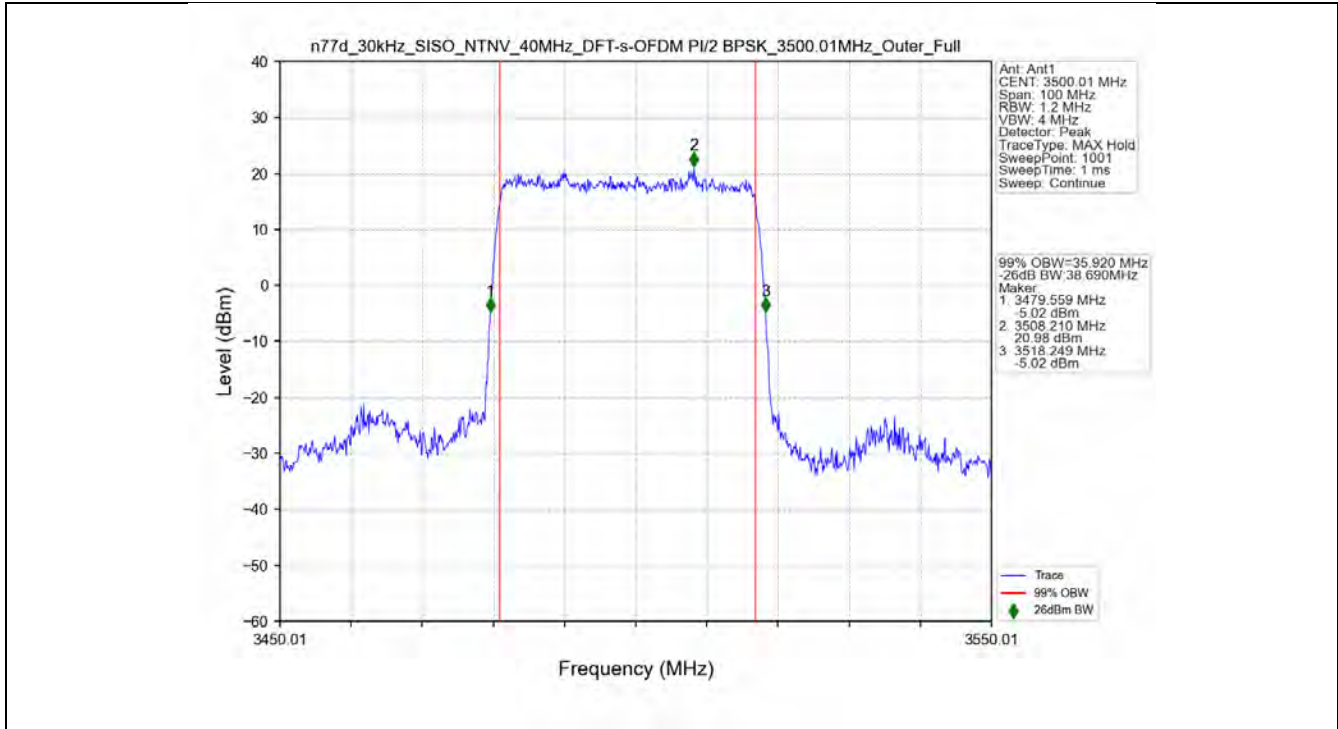


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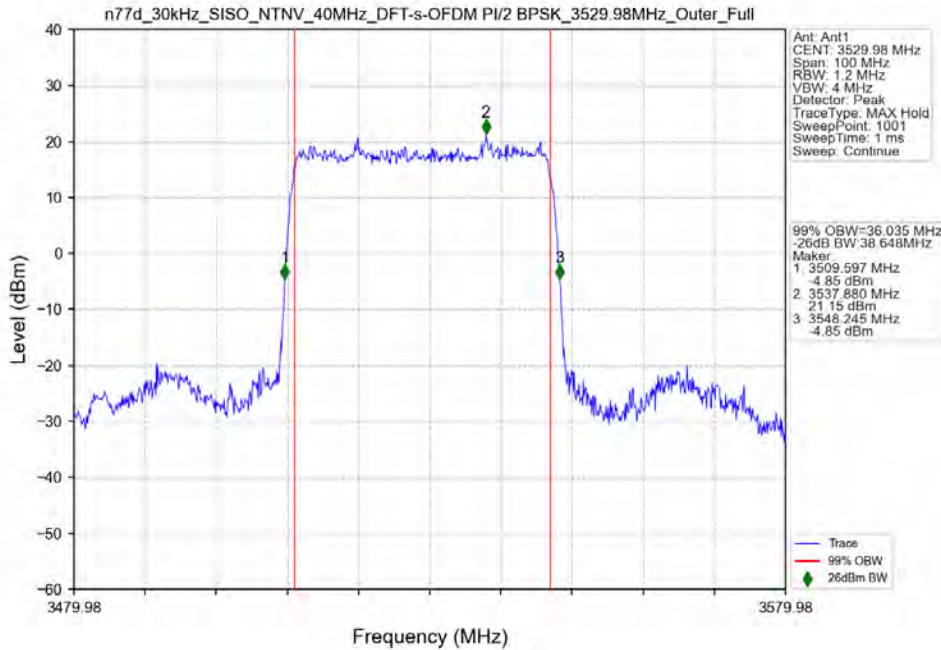
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n77d\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_3470.01MHz\_Outer\_Full



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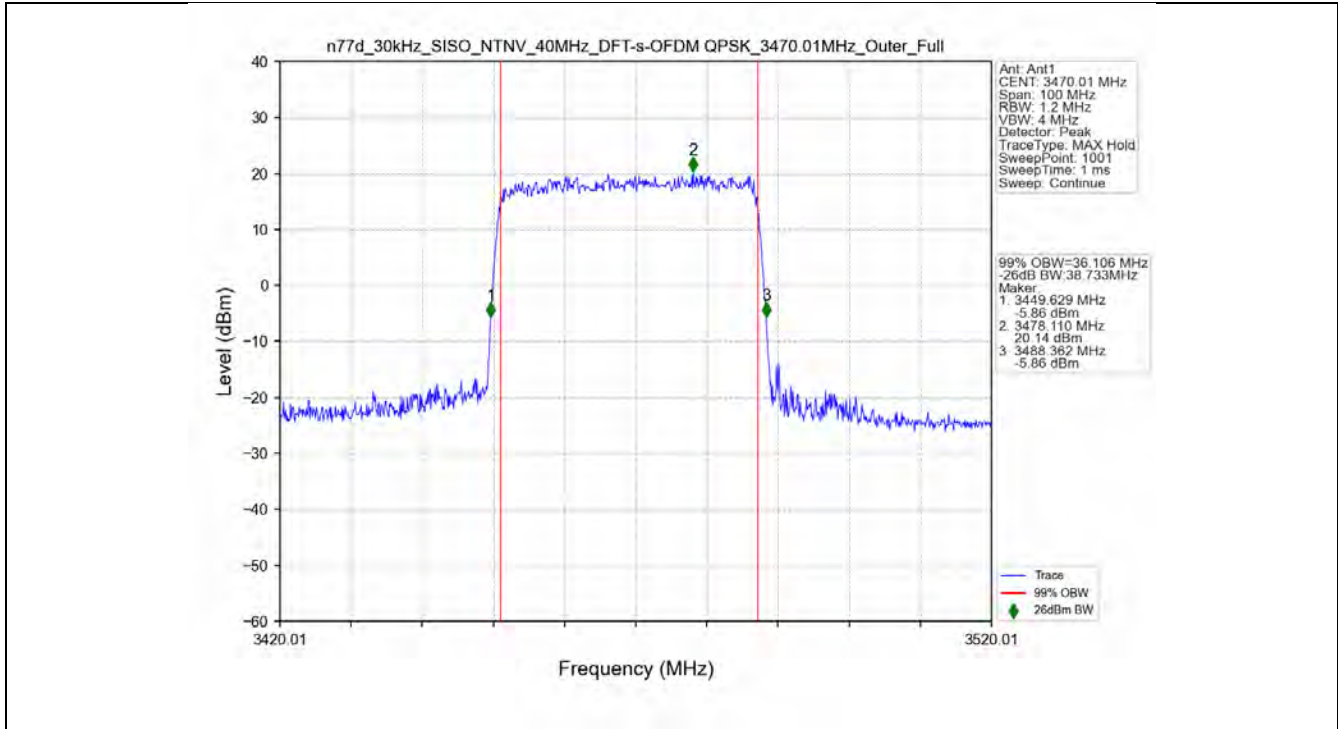


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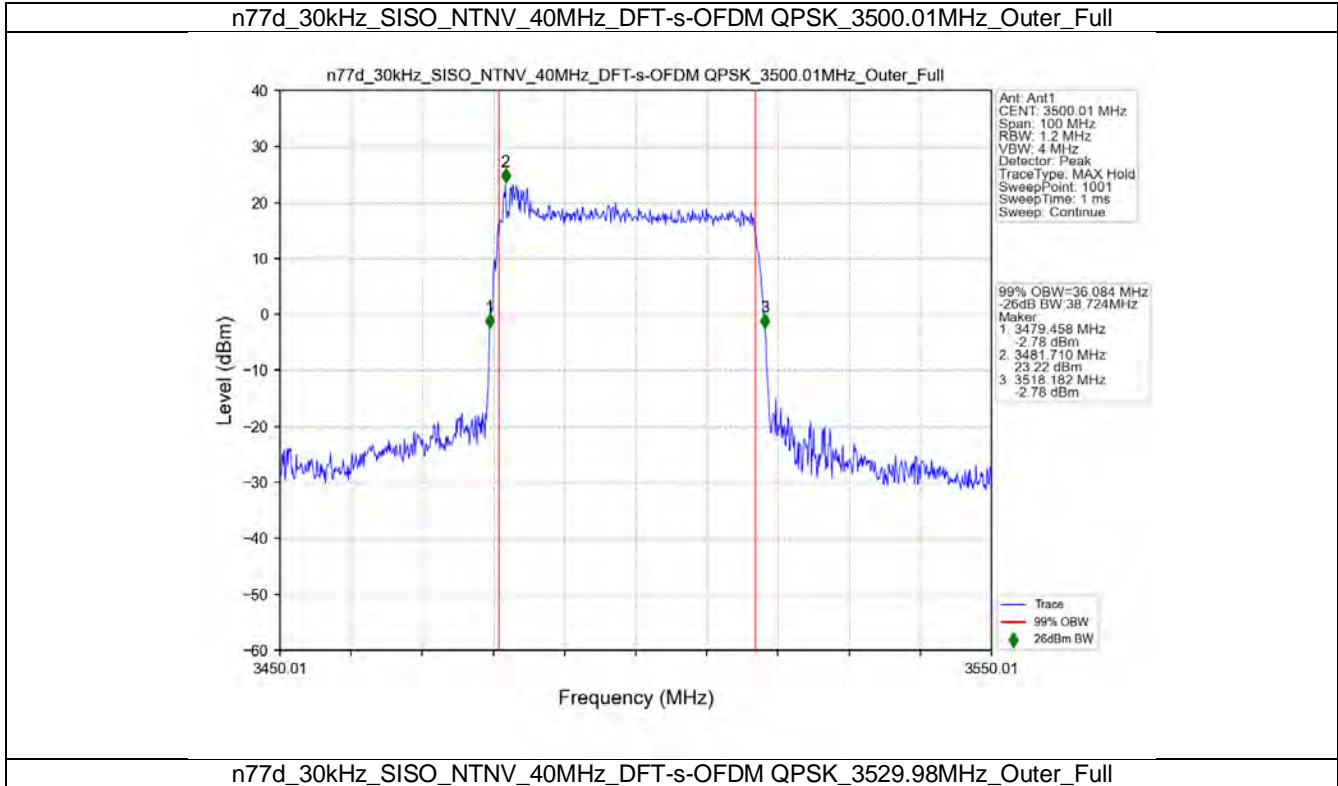


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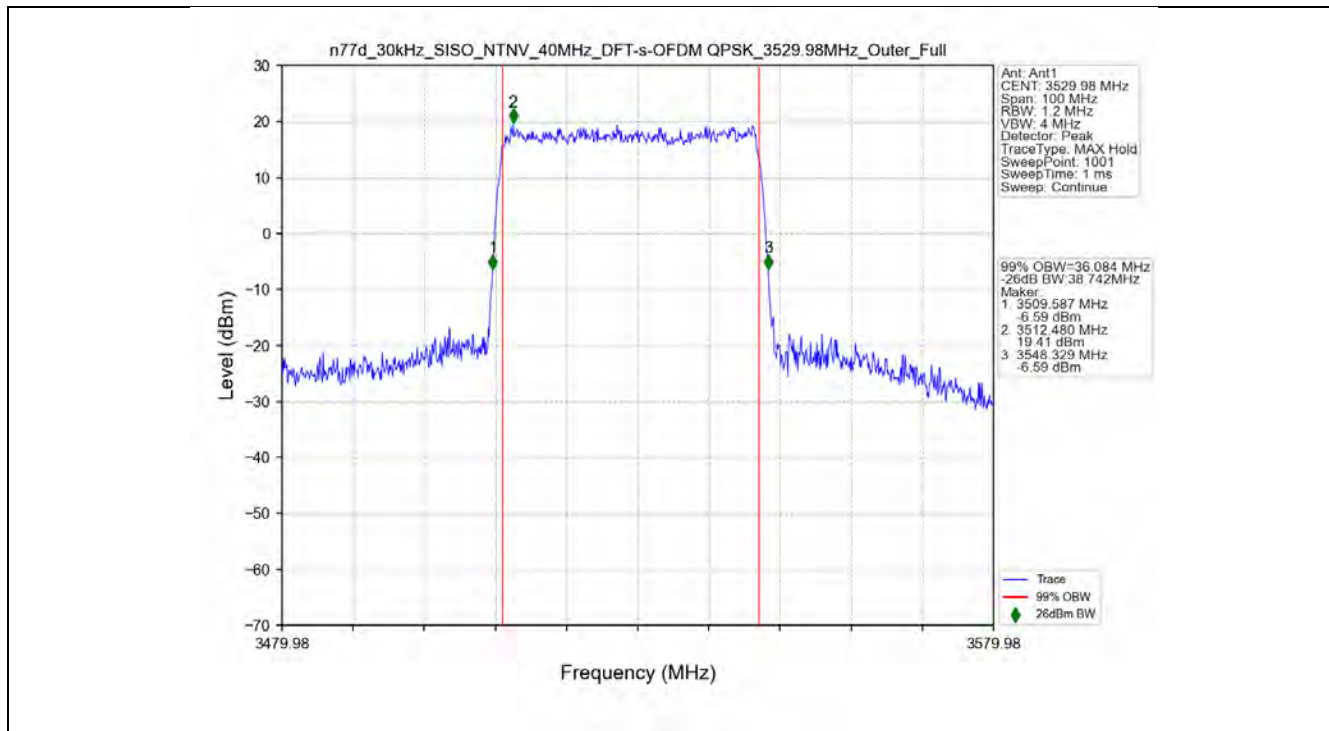
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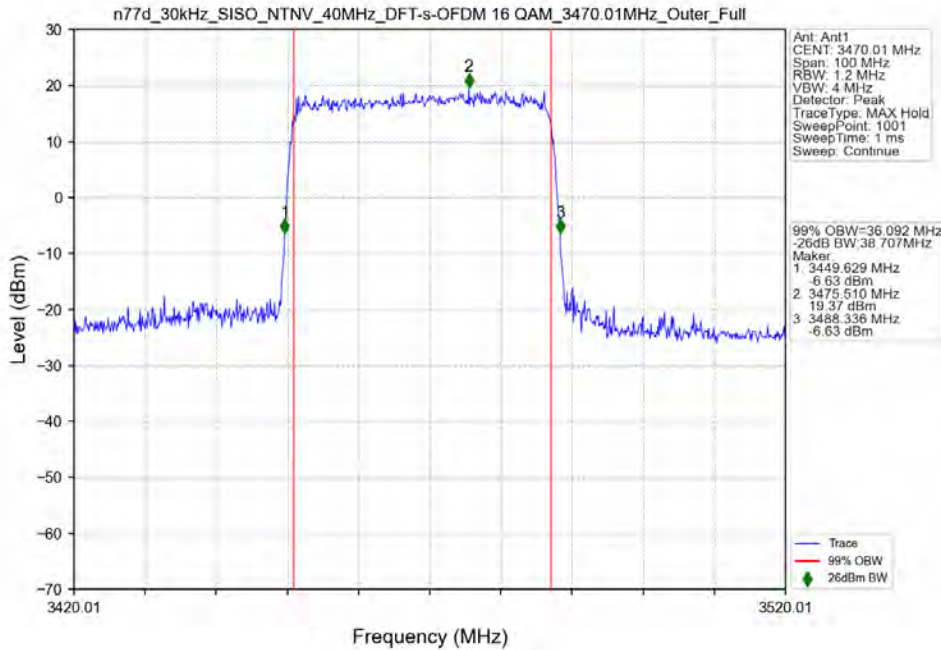
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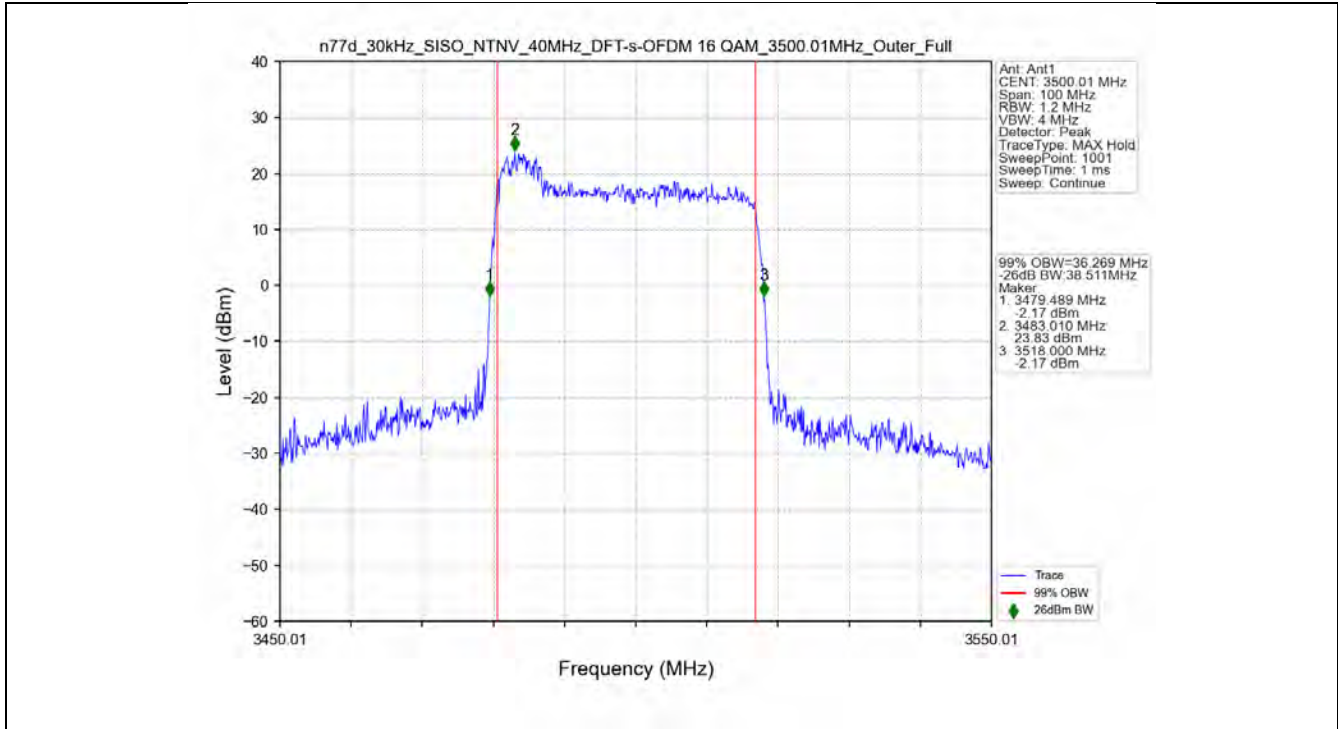


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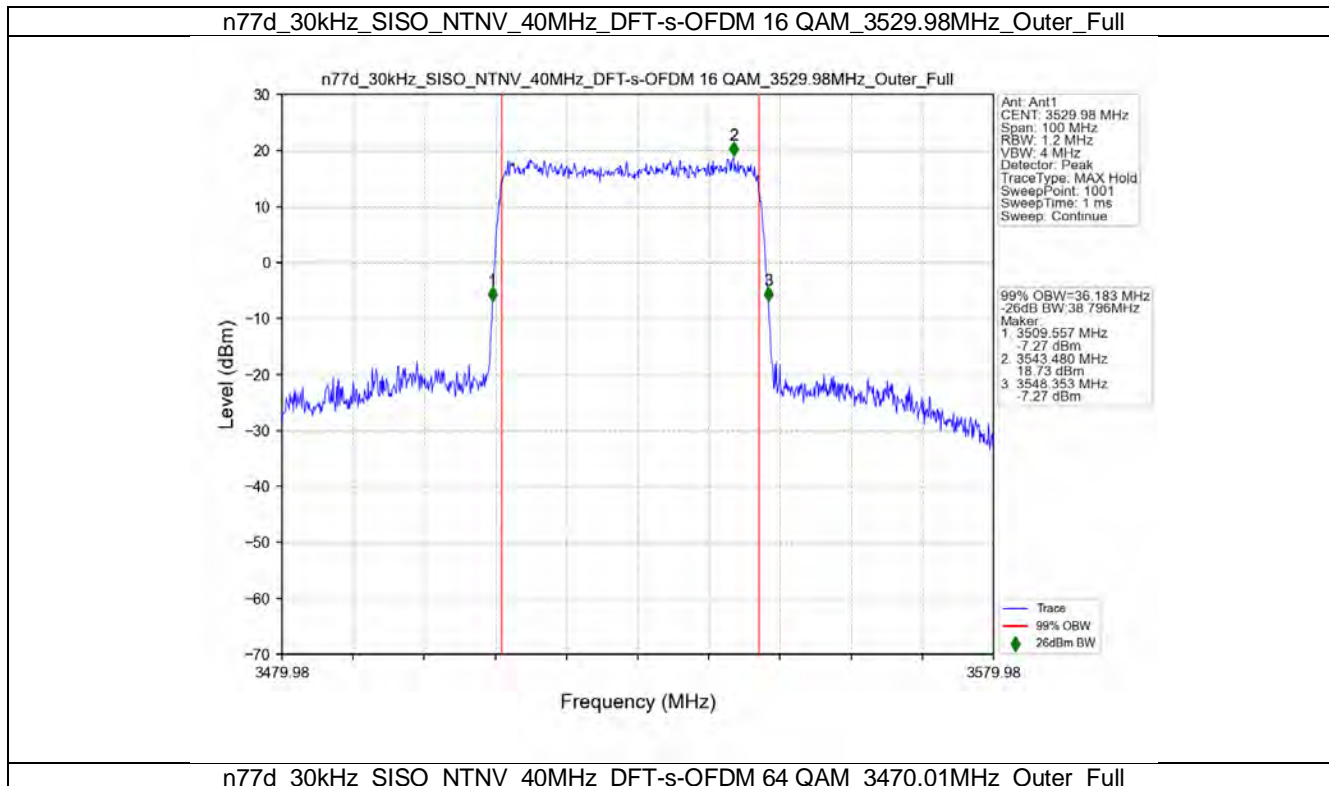
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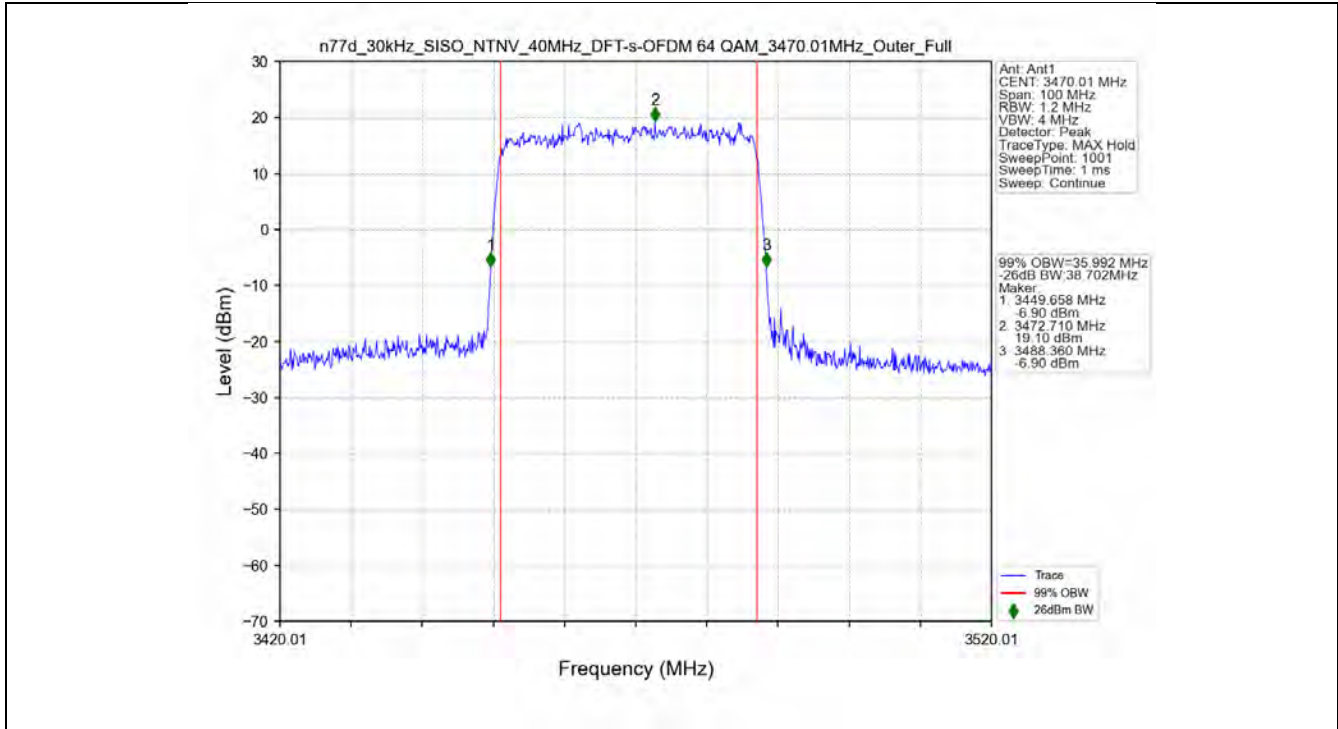


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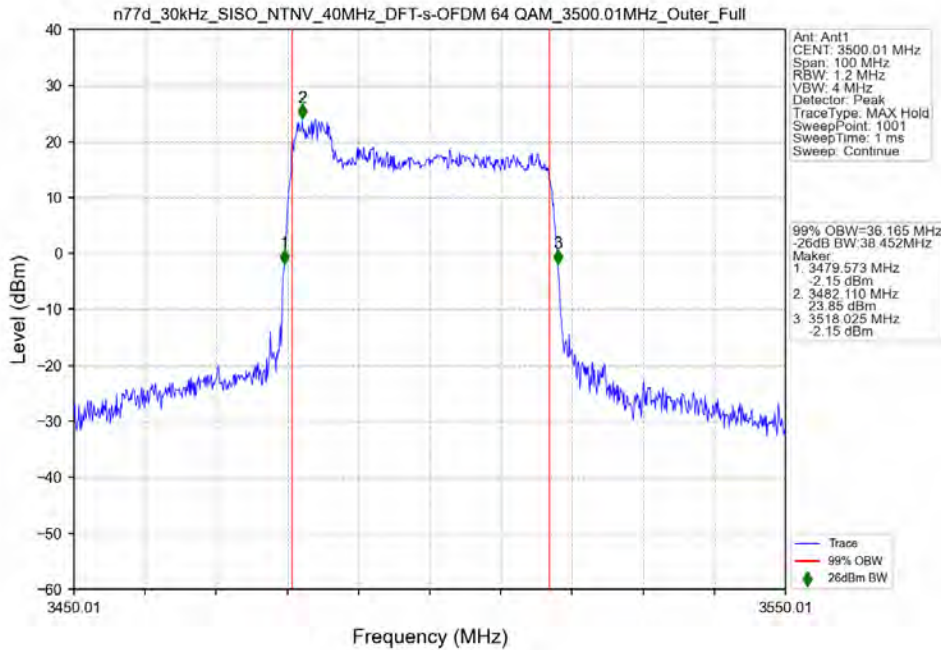
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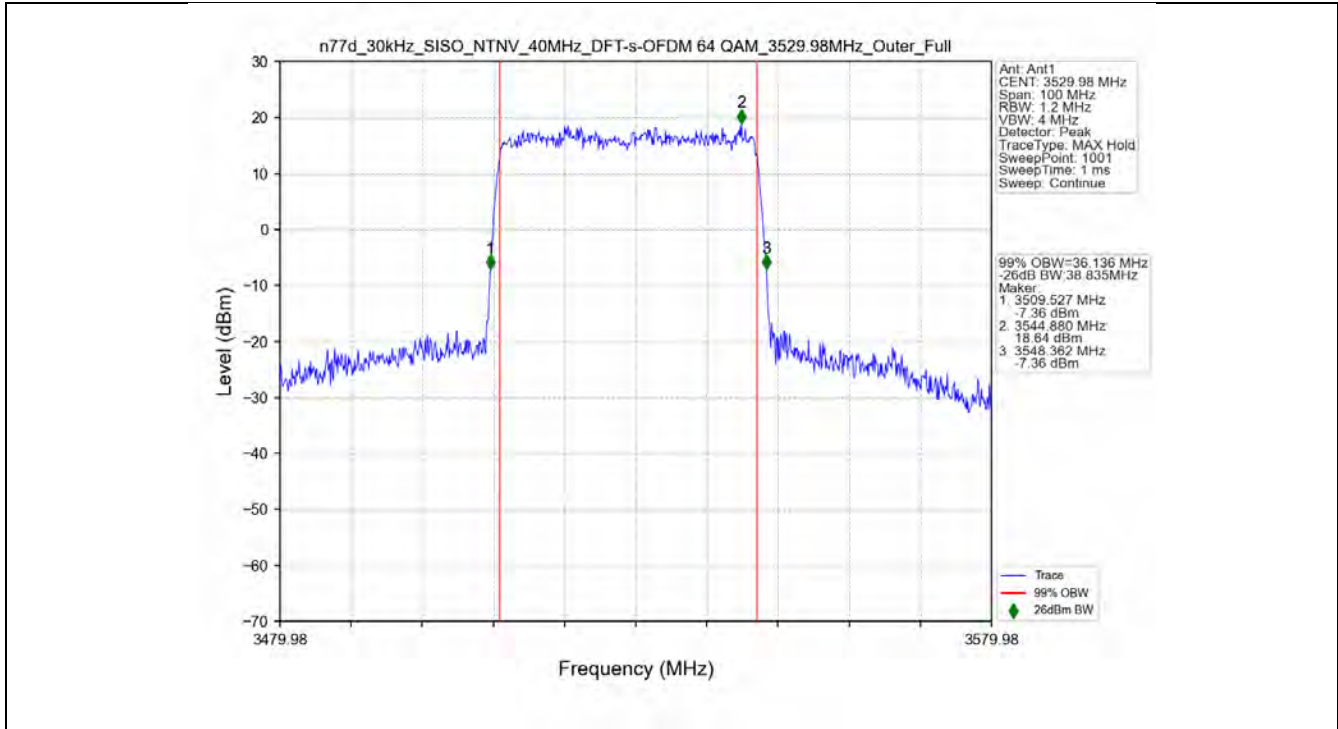


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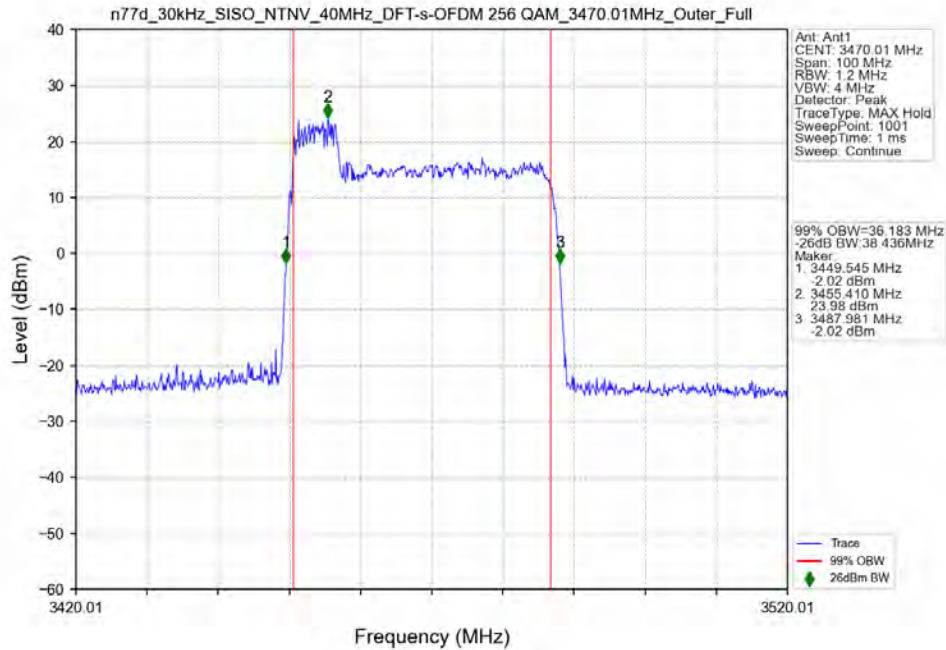
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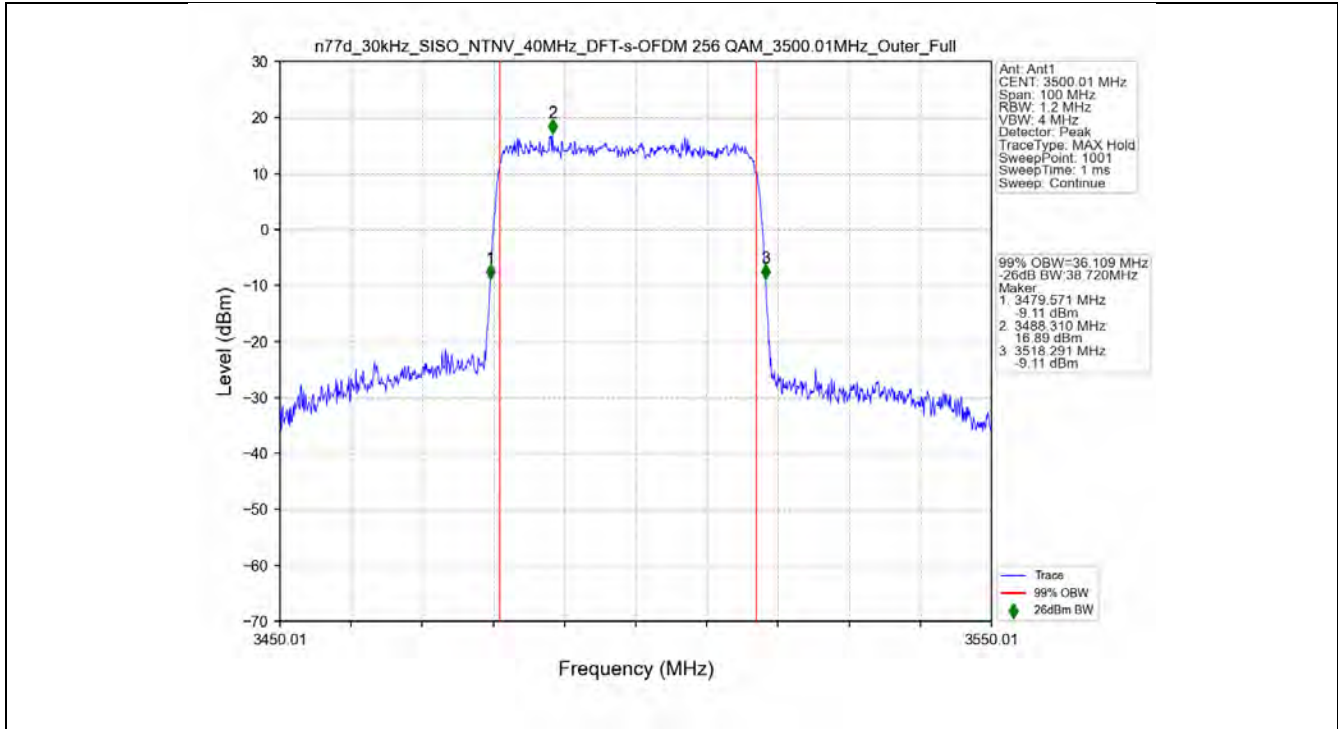


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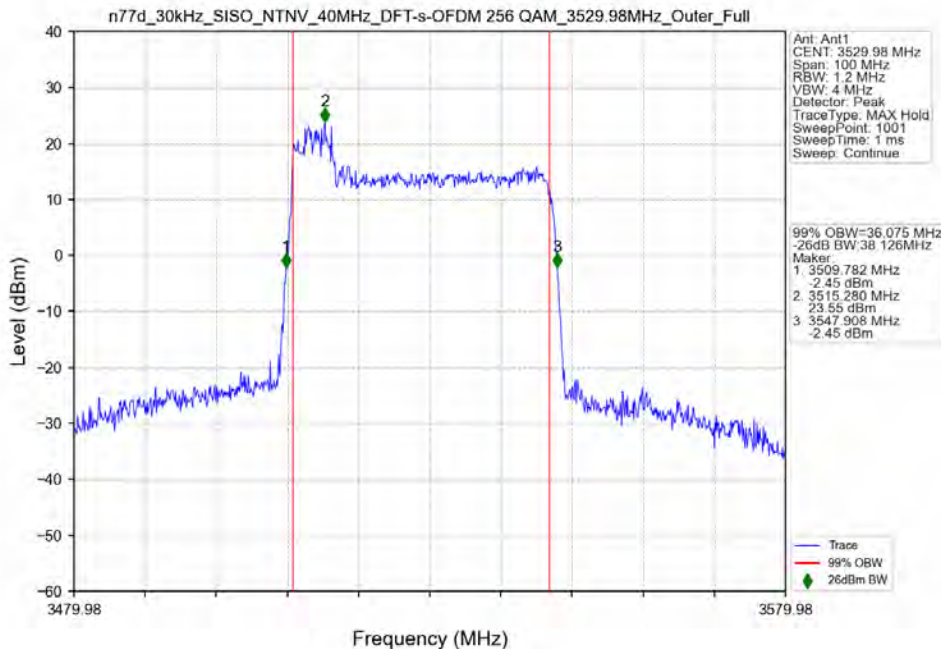




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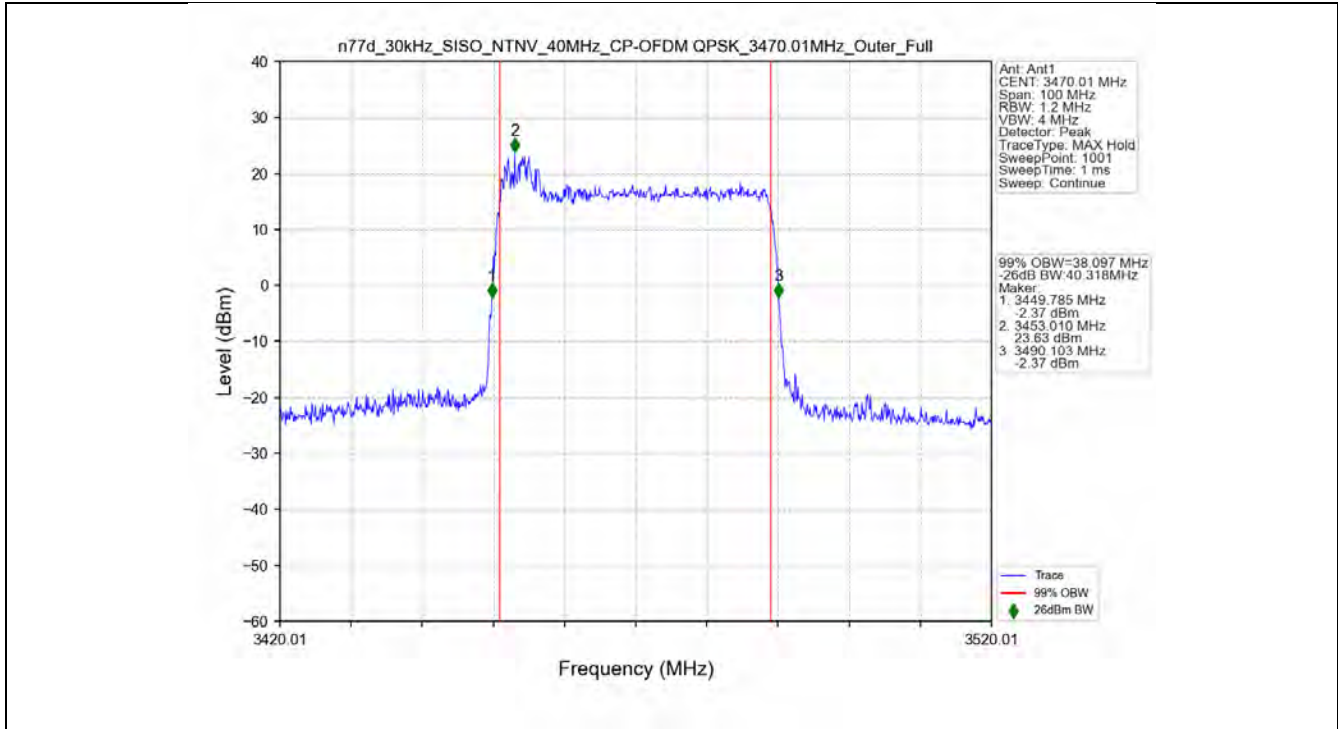


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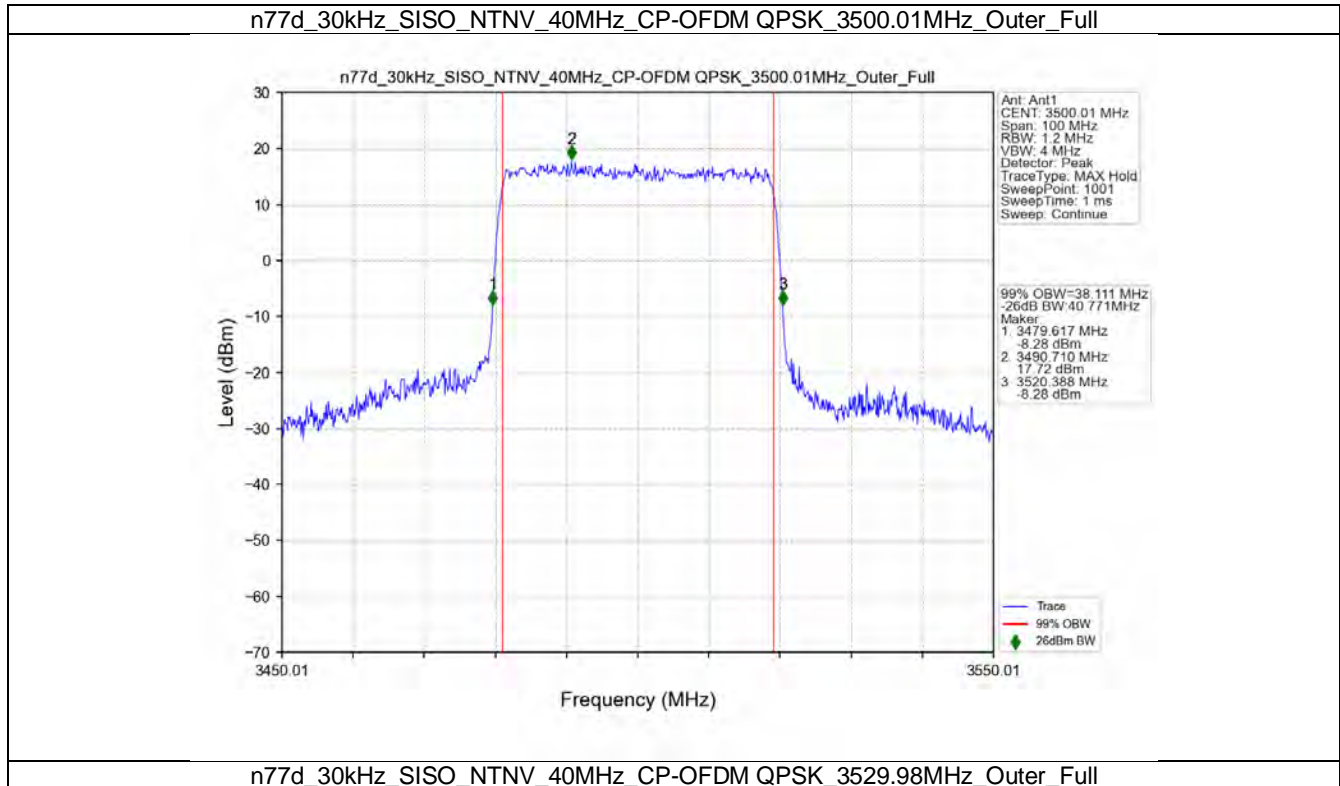


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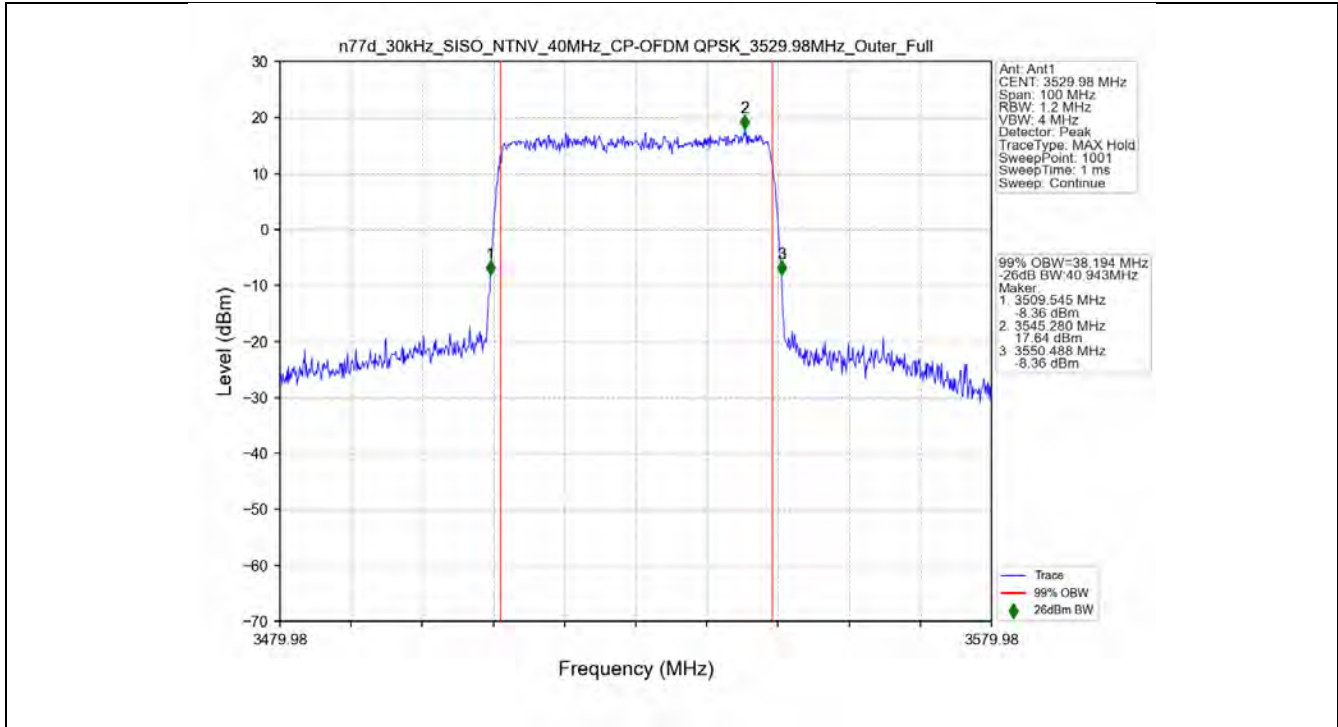


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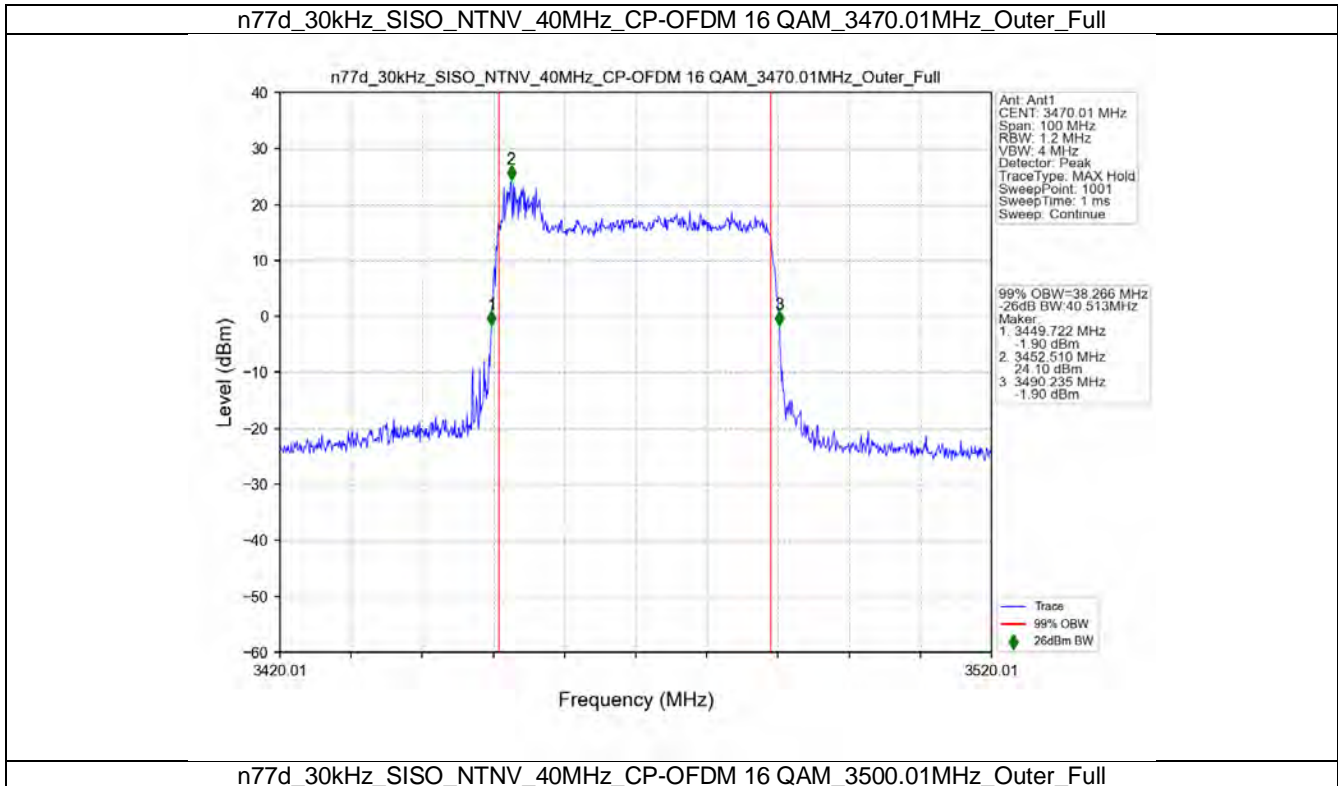


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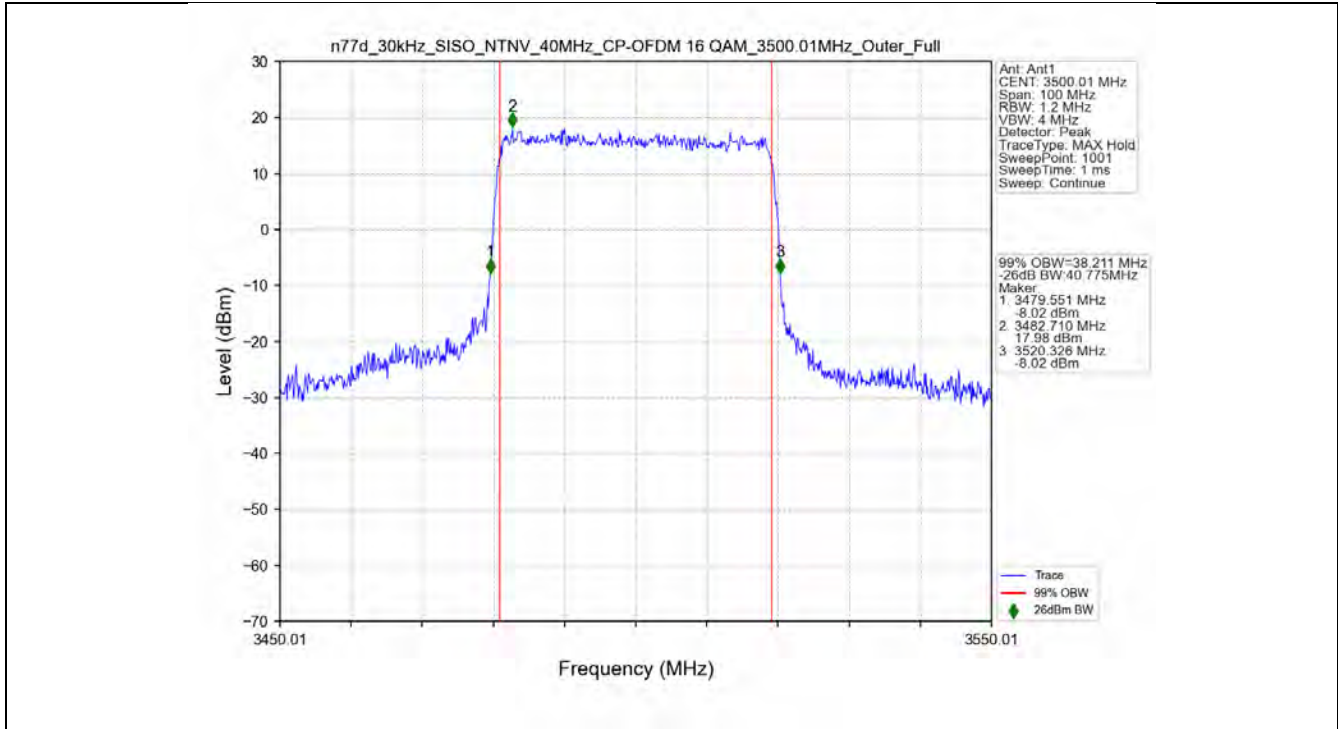


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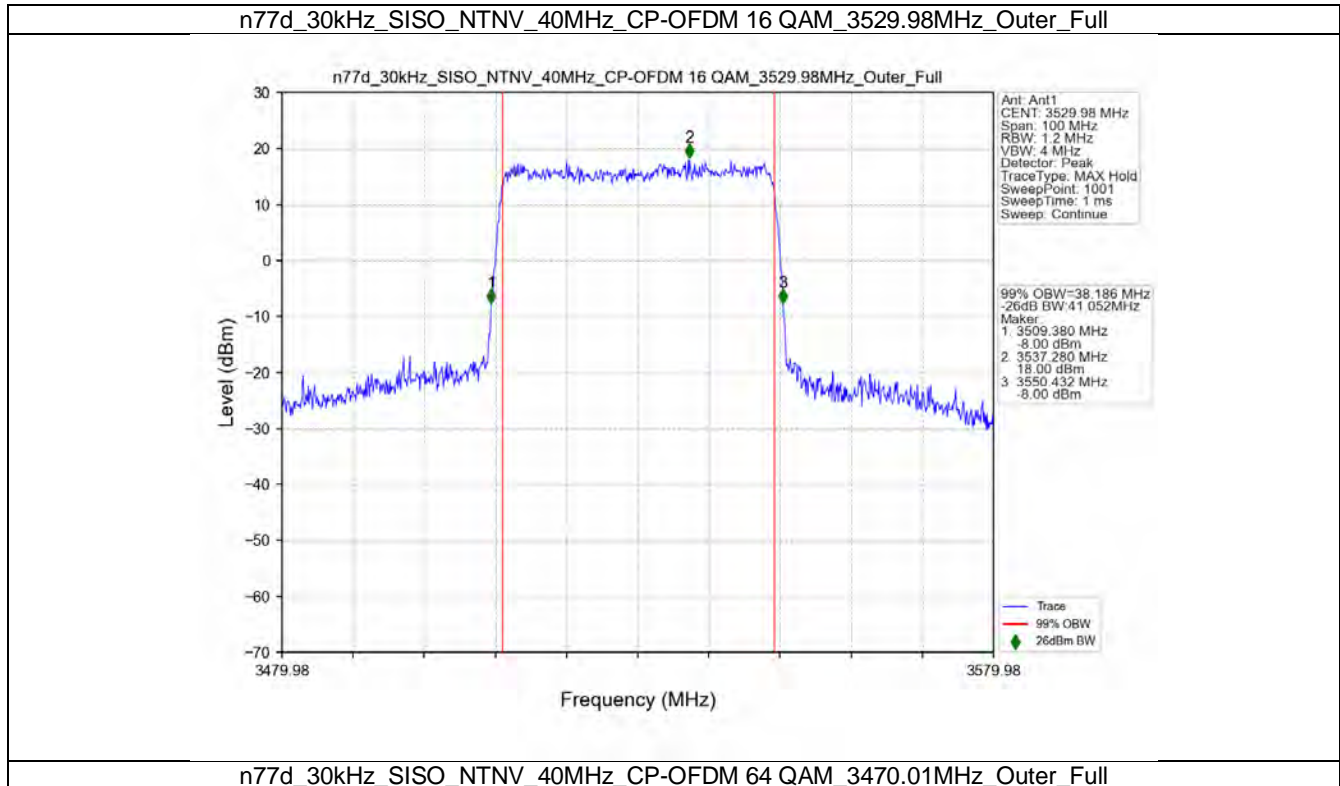


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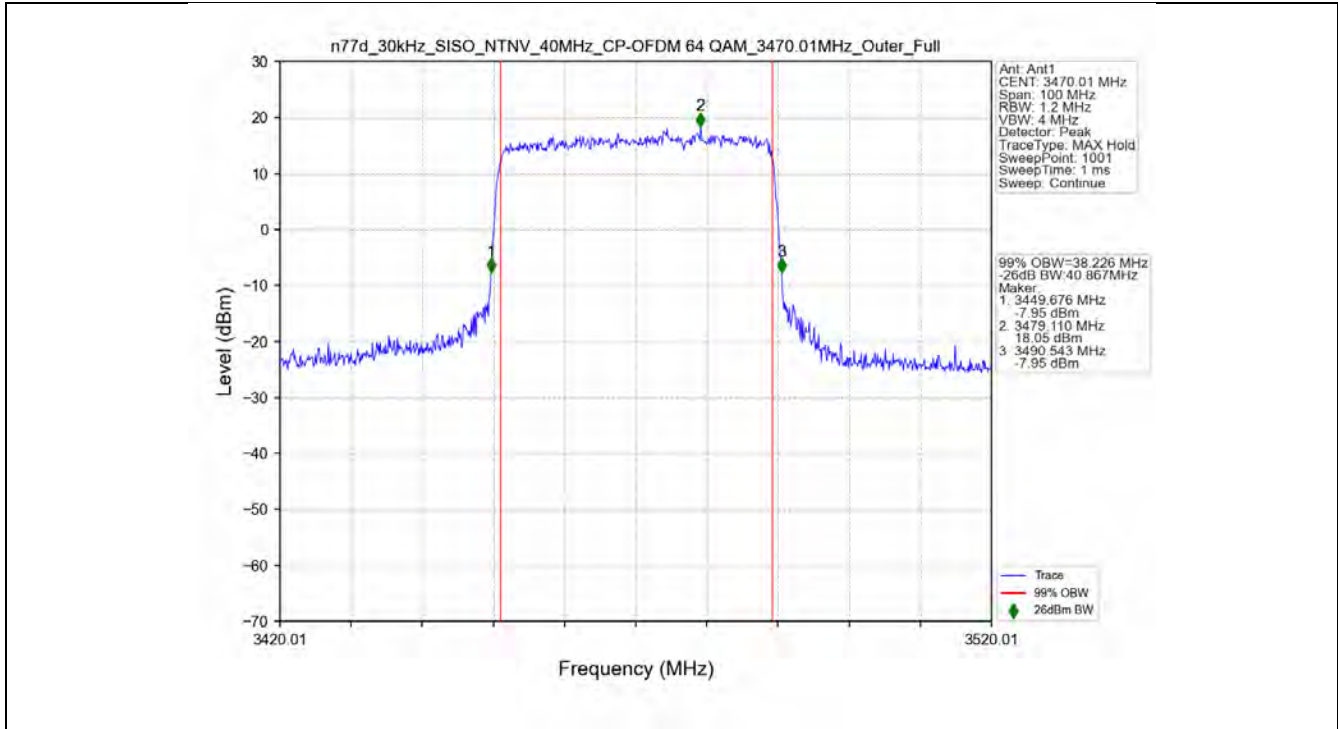


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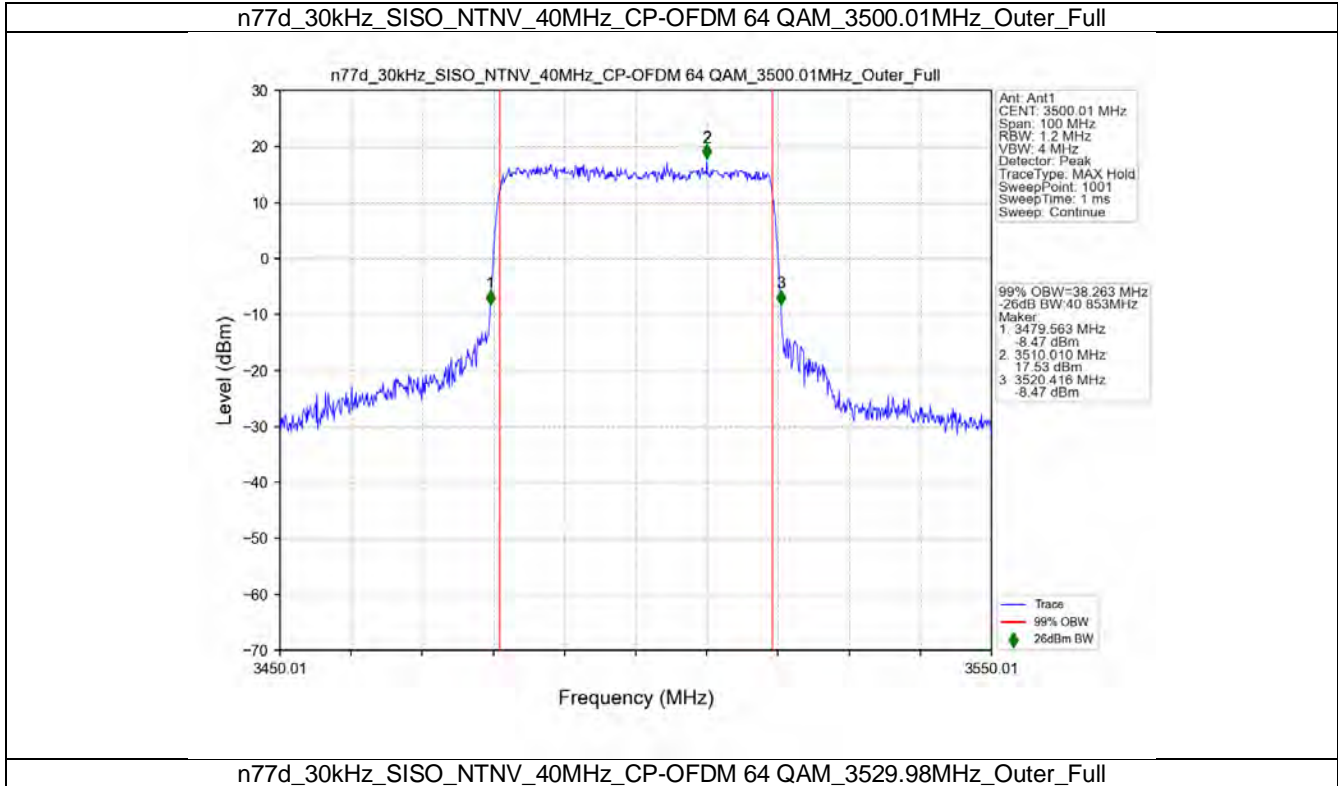


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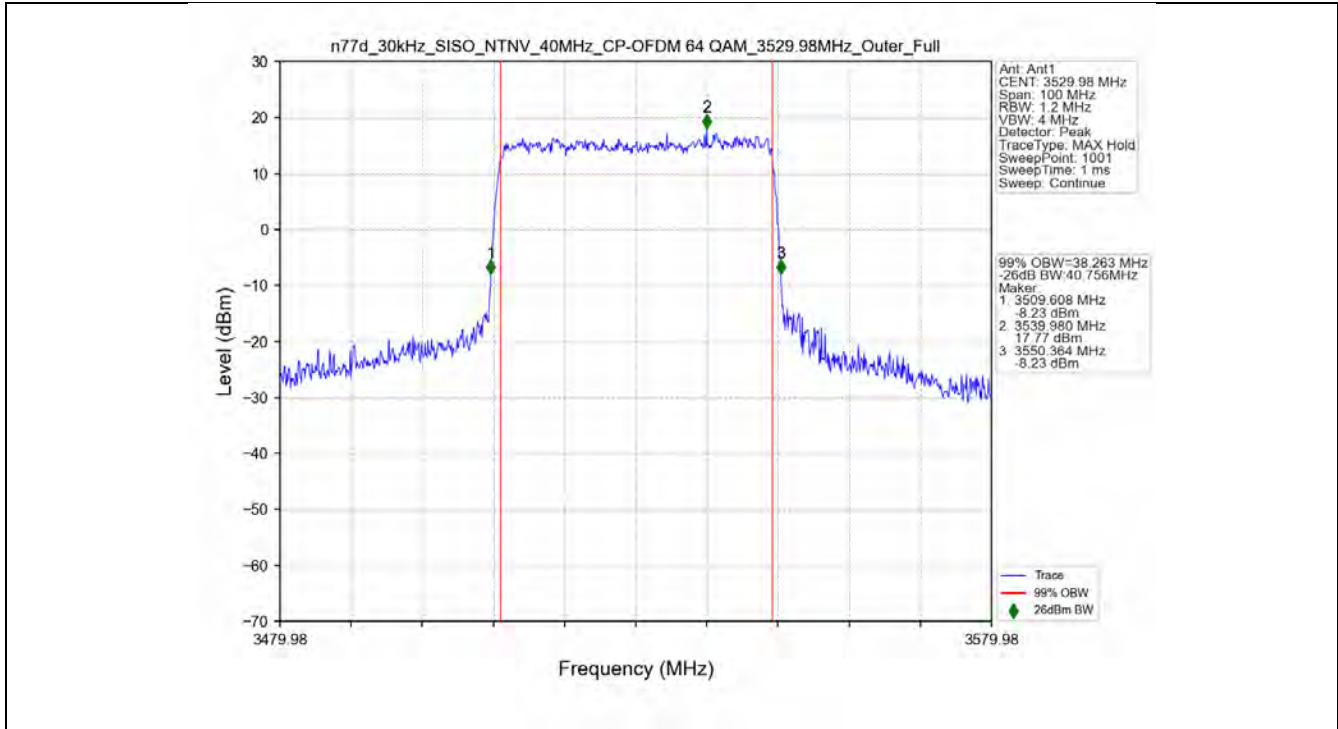


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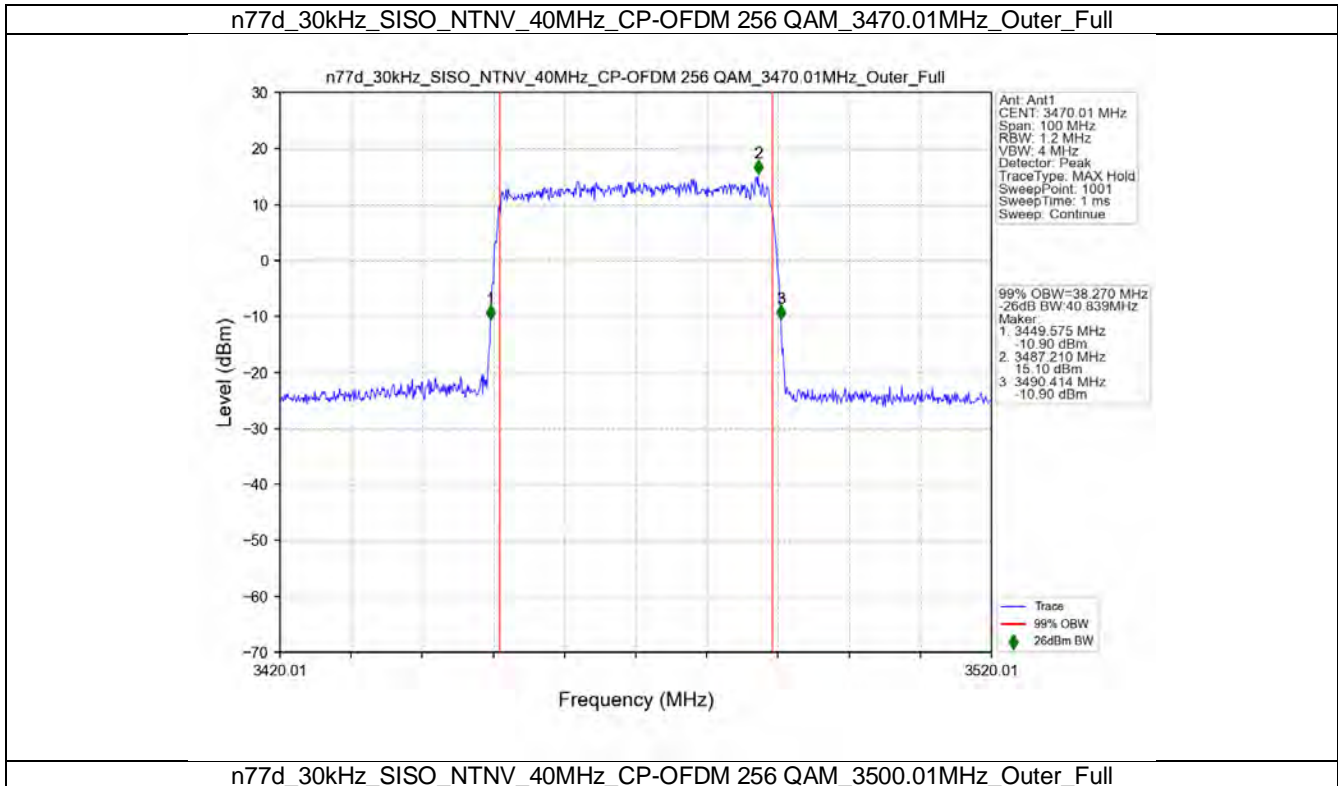


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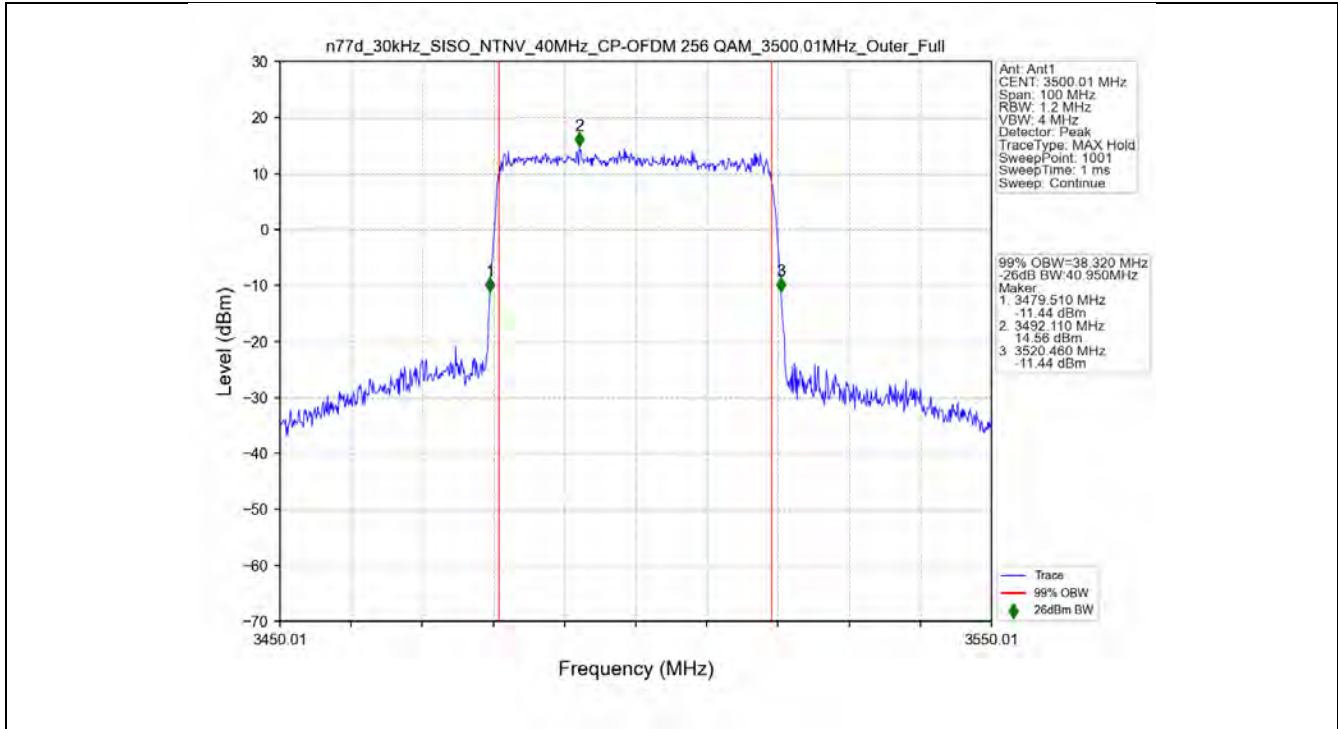


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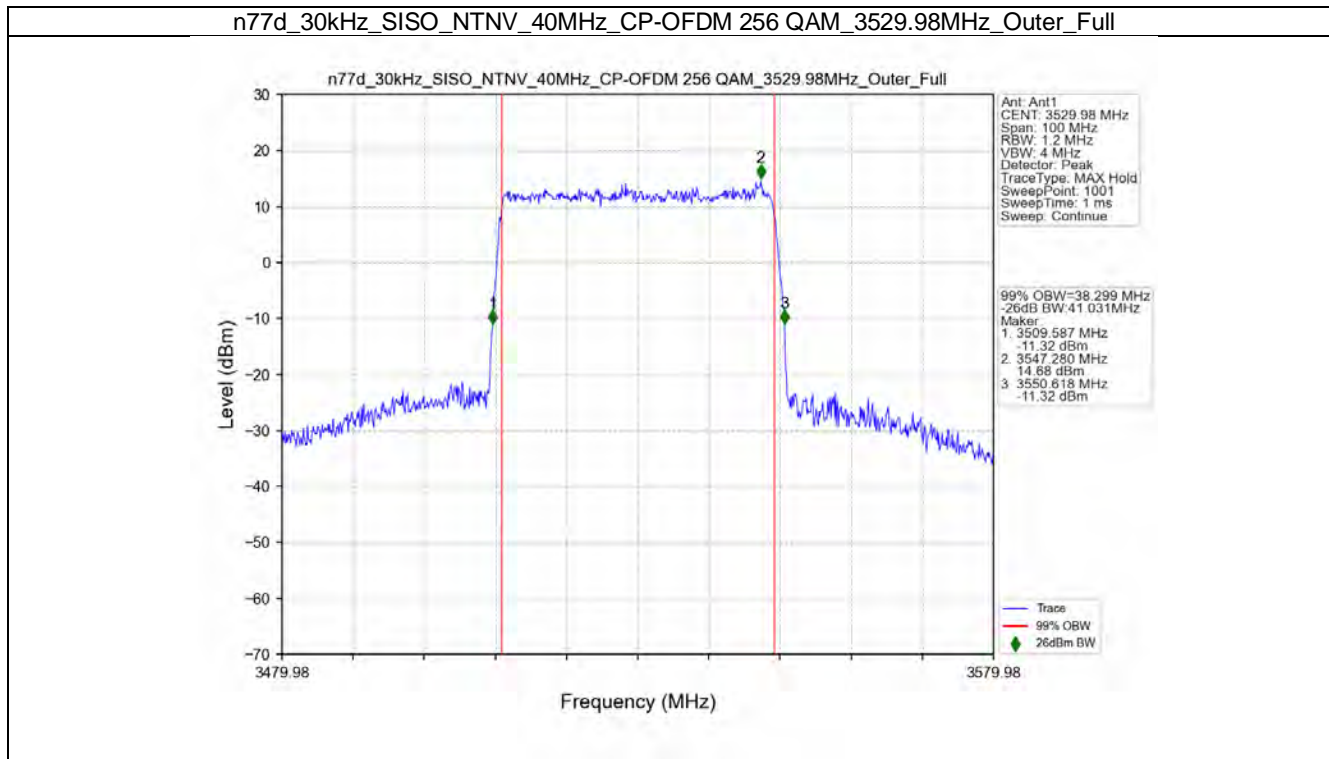
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## 3.4 30k\_SISO\_60MHz\_NTNV

### 3.4.1 Test Result

5G NR n77d SCS=30kHz SISO 60MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3480	Outer_Full	58.23	62.15	/	Pass
	3500.01	Outer_Full	58.27	62.17	/	Pass
	3519.99	Outer_Full	58.45	62.35	/	Pass
DFT-s-OFDM QPSK	3480	Outer_Full	58.45	62.32	/	Pass
	3500.01	Outer_Full	58.59	61.75	/	Pass
	3519.99	Outer_Full	58.68	62.61	/	Pass
DFT-s-OFDM 16 QAM	3480	Outer_Full	58.22	62.28	/	Pass
	3500.01	Outer_Full	58.27	62.22	/	Pass
	3519.99	Outer_Full	58.79	61.86	/	Pass
DFT-s-OFDM 64 QAM	3480	Outer_Full	58.01	62.21	/	Pass
	3500.01	Outer_Full	58.62	61.70	/	Pass
	3519.99	Outer_Full	58.40	62.27	/	Pass
DFT-s-OFDM 256 QAM	3480	Outer_Full	58.02	62.02	/	Pass
	3500.01	Outer_Full	58.11	62.05	/	Pass
	3519.99	Outer_Full	58.28	62.20	/	Pass
CP-OFDM QPSK	3480	Outer_Full	58.22	62.26	/	Pass
	3500.01	Outer_Full	58.31	62.05	/	Pass
	3519.99	Outer_Full	58.37	62.20	/	Pass
CP-OFDM 16 QAM	3480	Outer_Full	58.14	62.15	/	Pass
	3500.01	Outer_Full	58.11	62.14	/	Pass
	3519.99	Outer_Full	58.39	62.21	/	Pass
CP-OFDM 64 QAM	3480	Outer_Full	58.27	62.30	/	Pass
	3500.01	Outer_Full	58.55	61.38	/	Pass
	3519.99	Outer_Full	58.53	62.11	/	Pass
CP-OFDM 256 QAM	3480	Outer_Full	58.19	62.05	/	Pass
	3500.01	Outer_Full	58.22	62.06	/	Pass
	3519.99	Outer_Full	58.44	62.40	/	Pass



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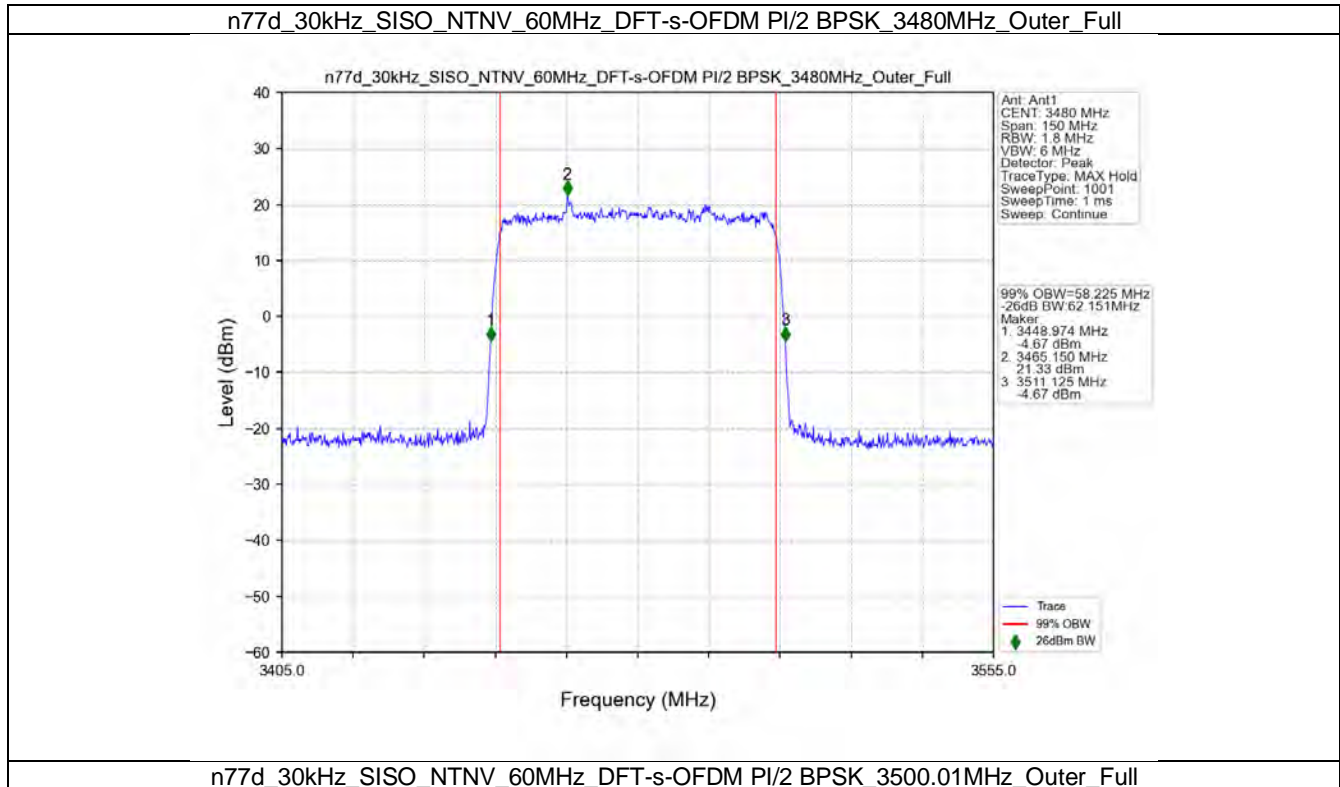
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3.4.2 Test Graph



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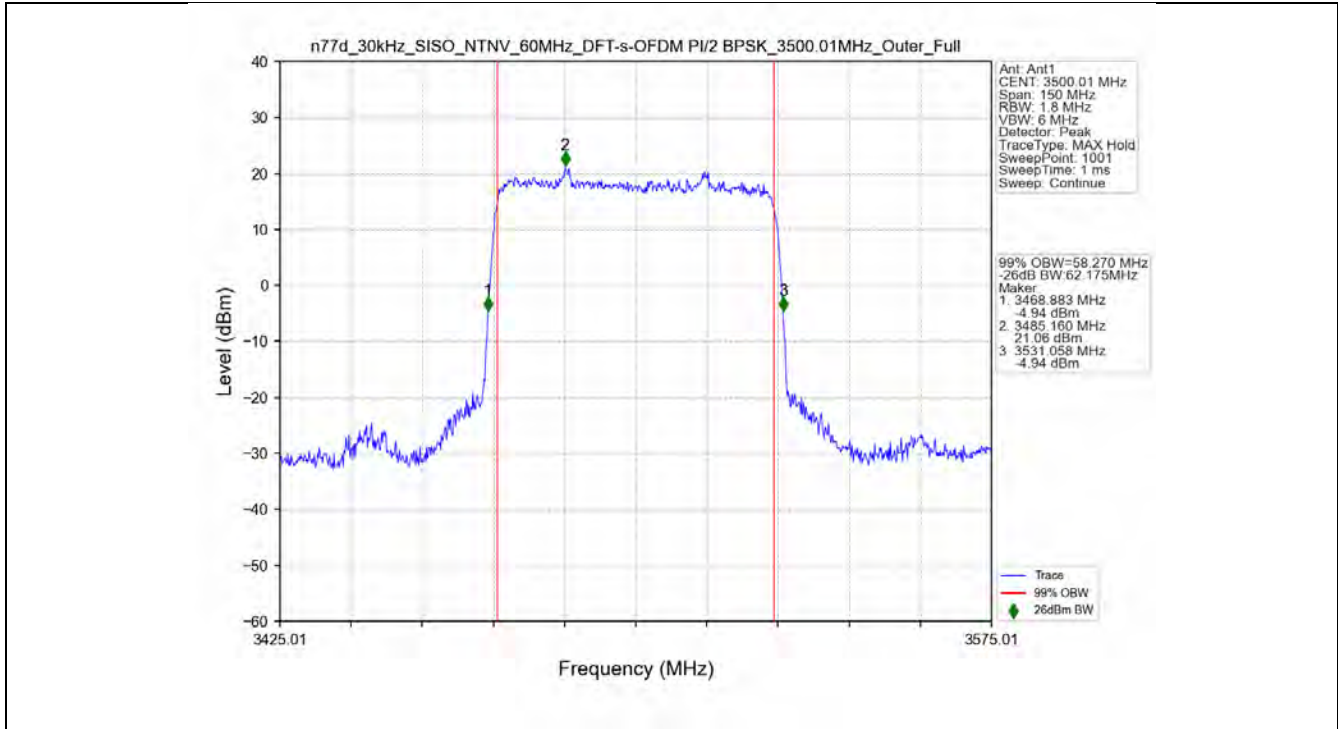


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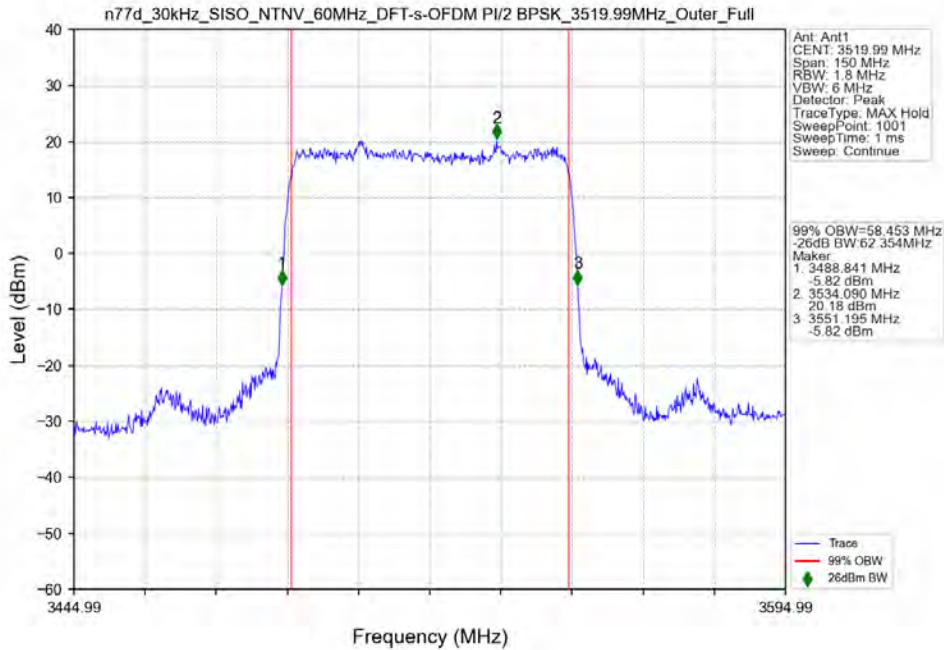
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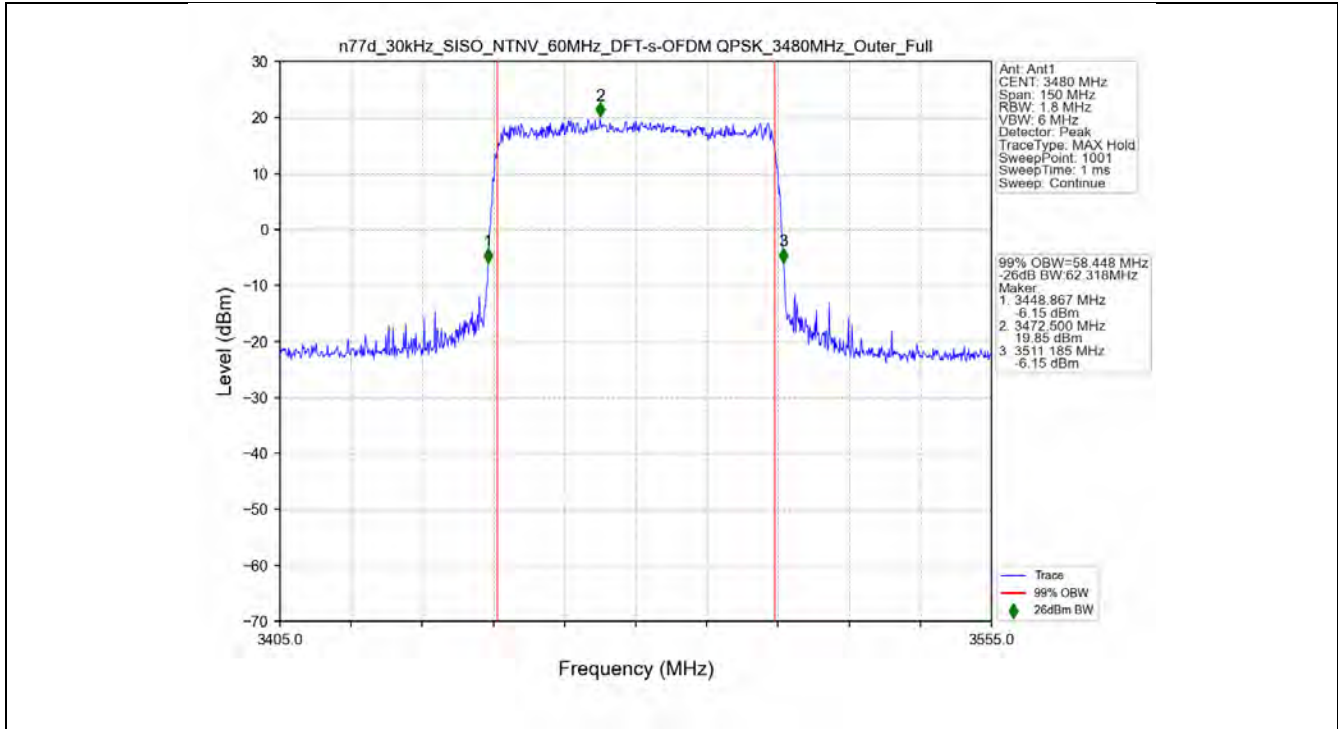


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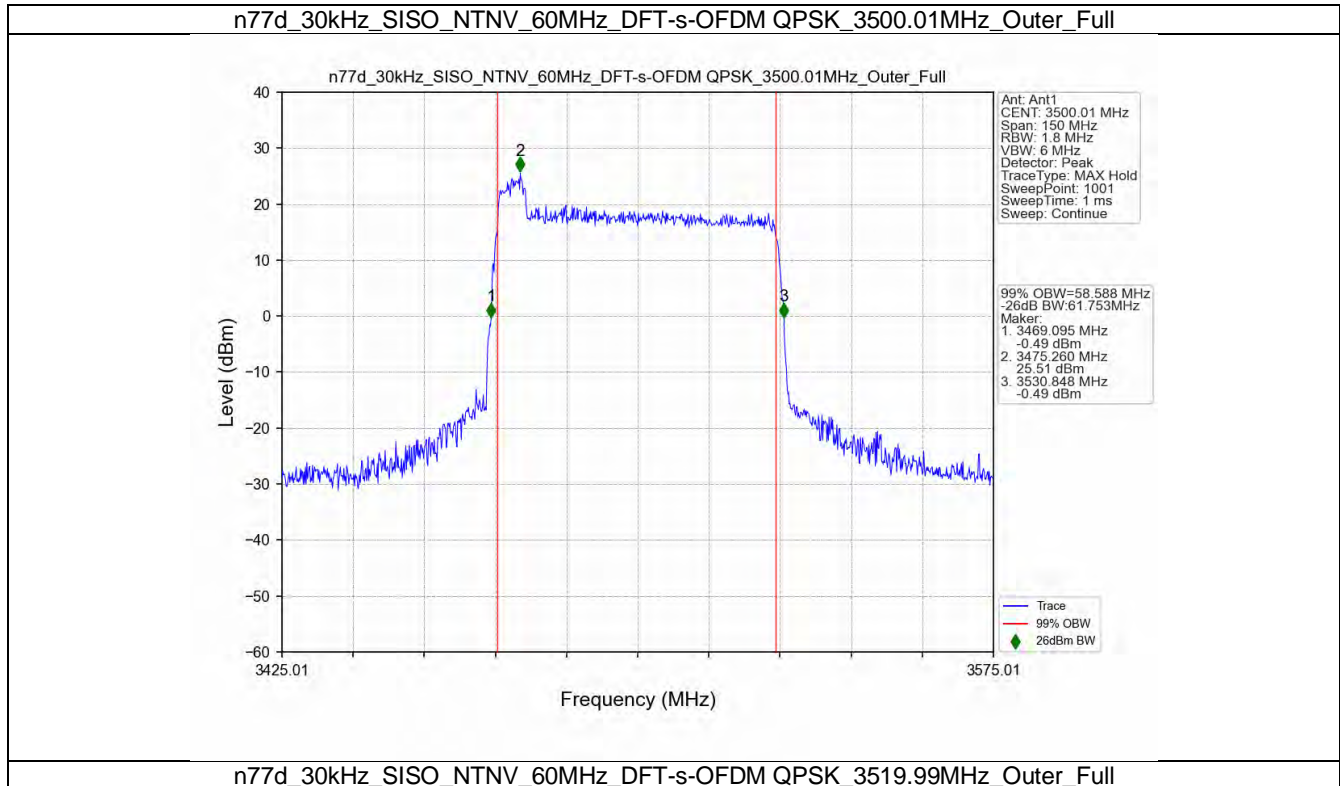


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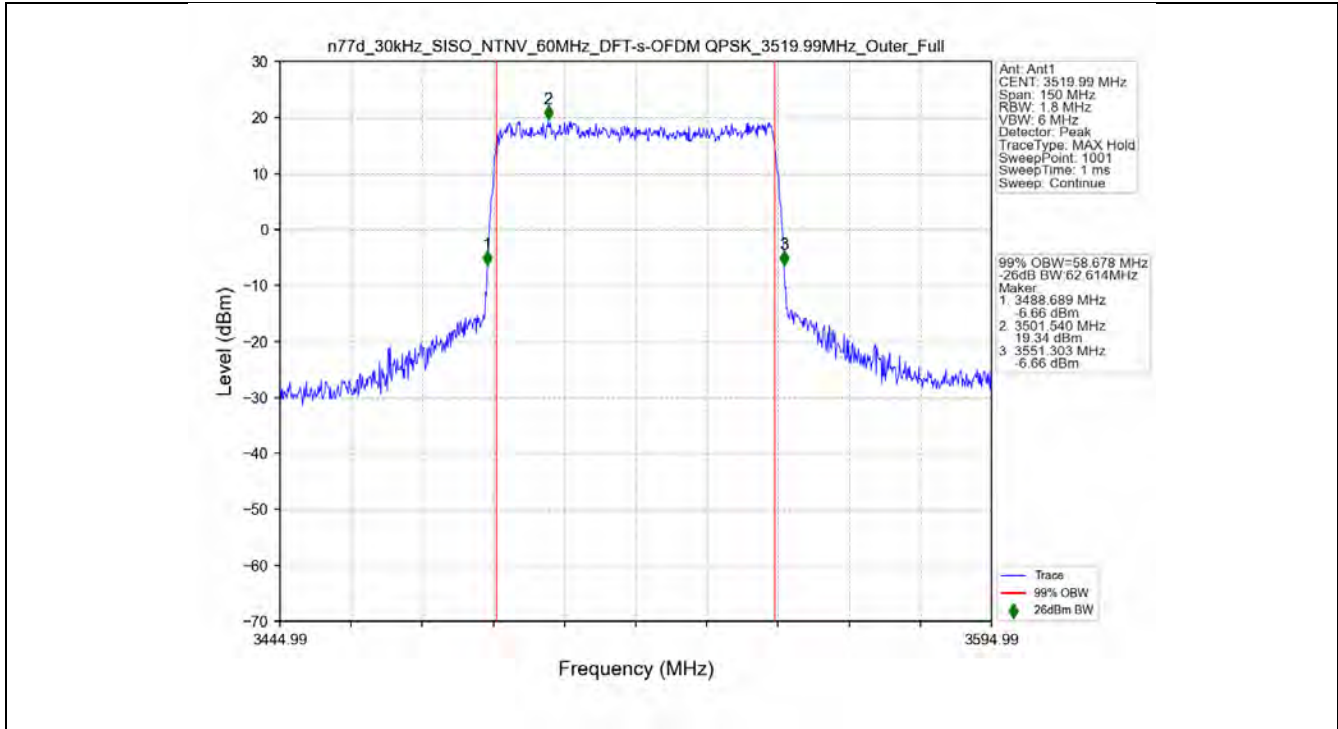


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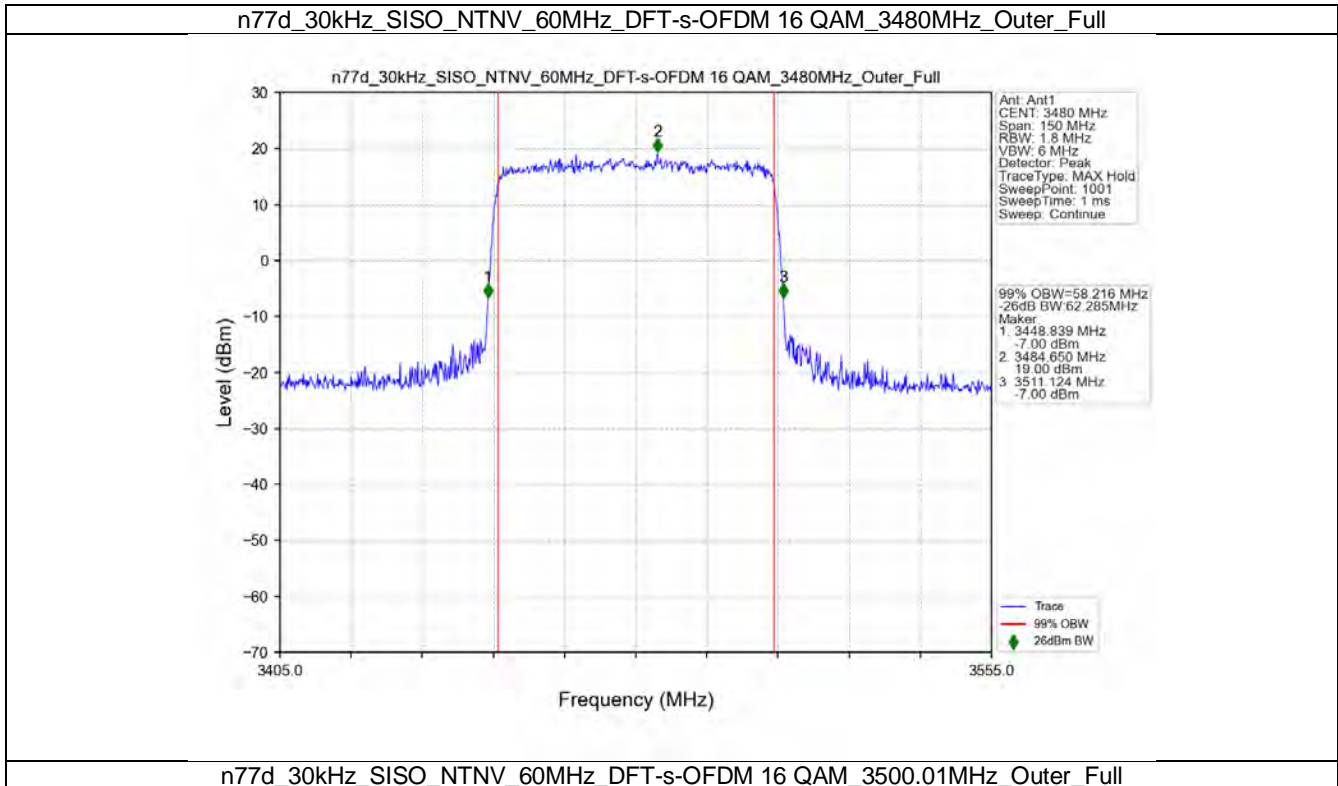


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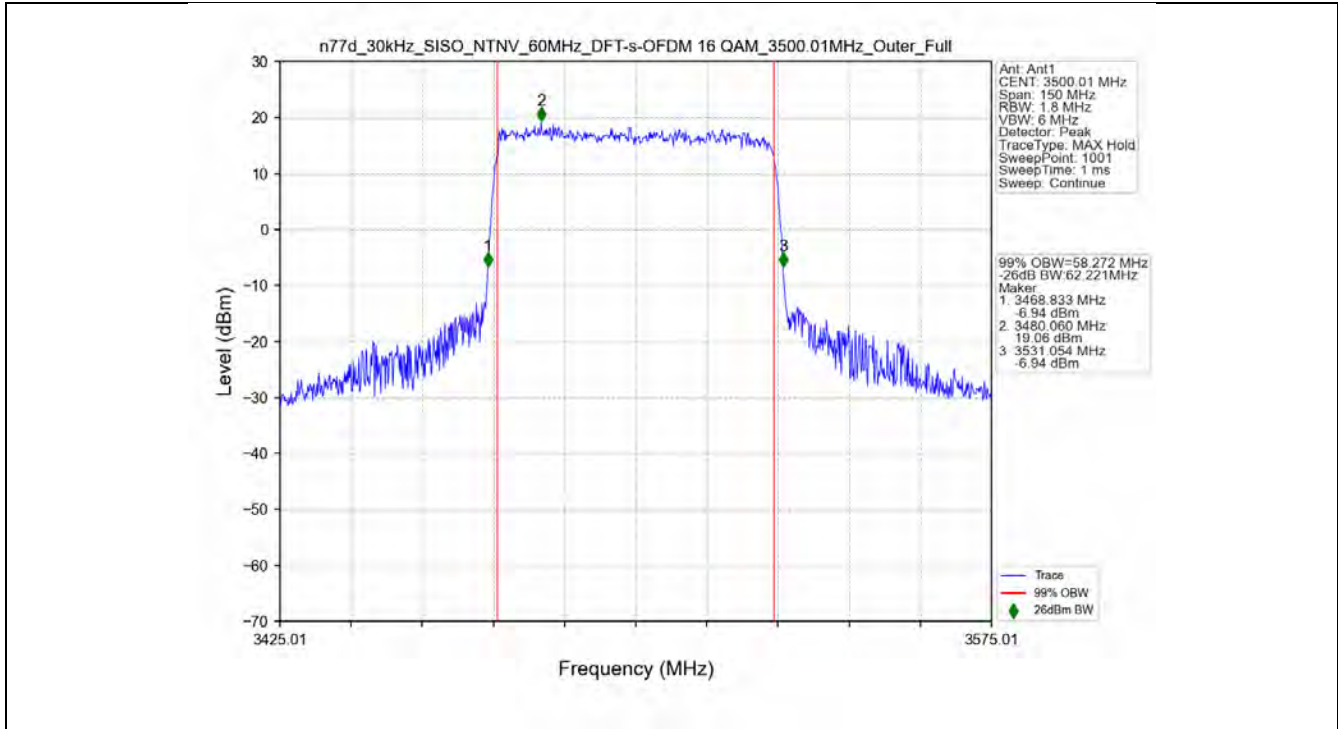


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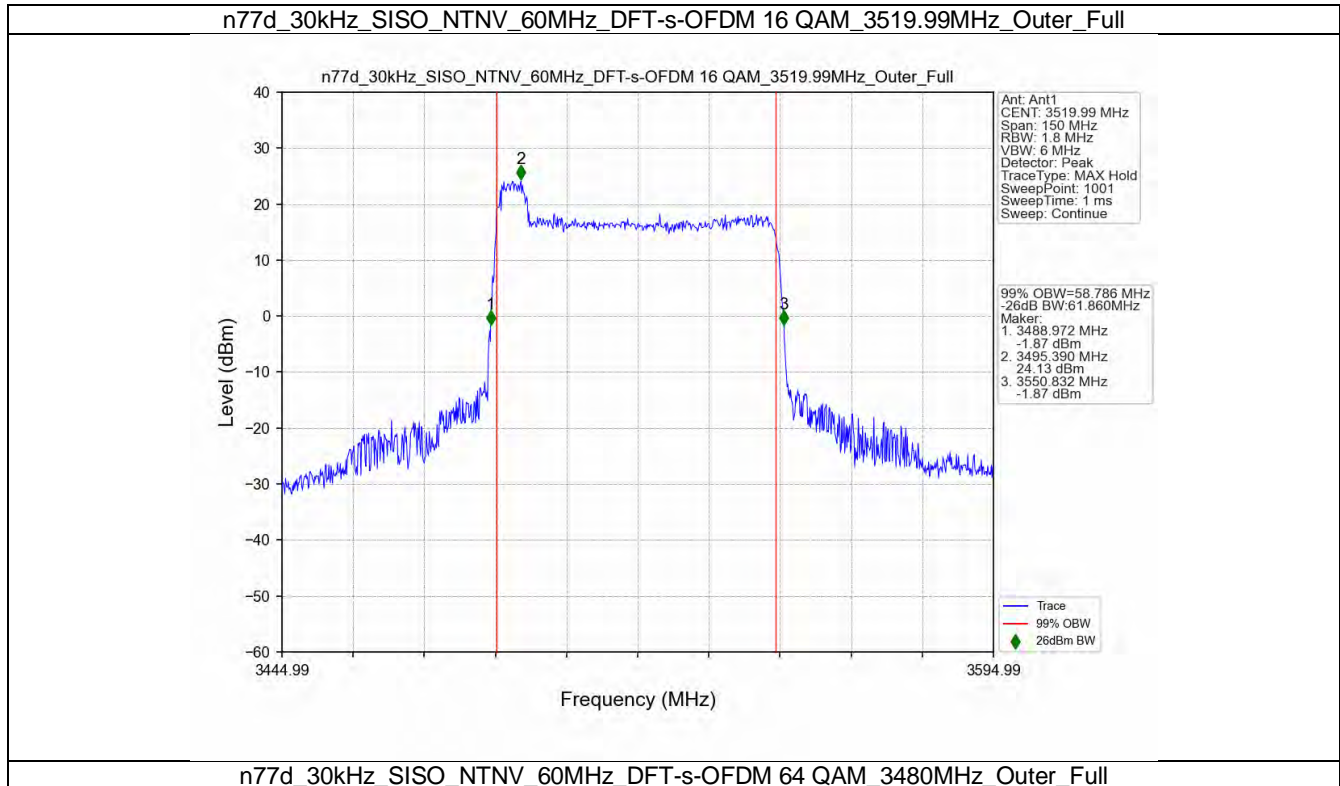


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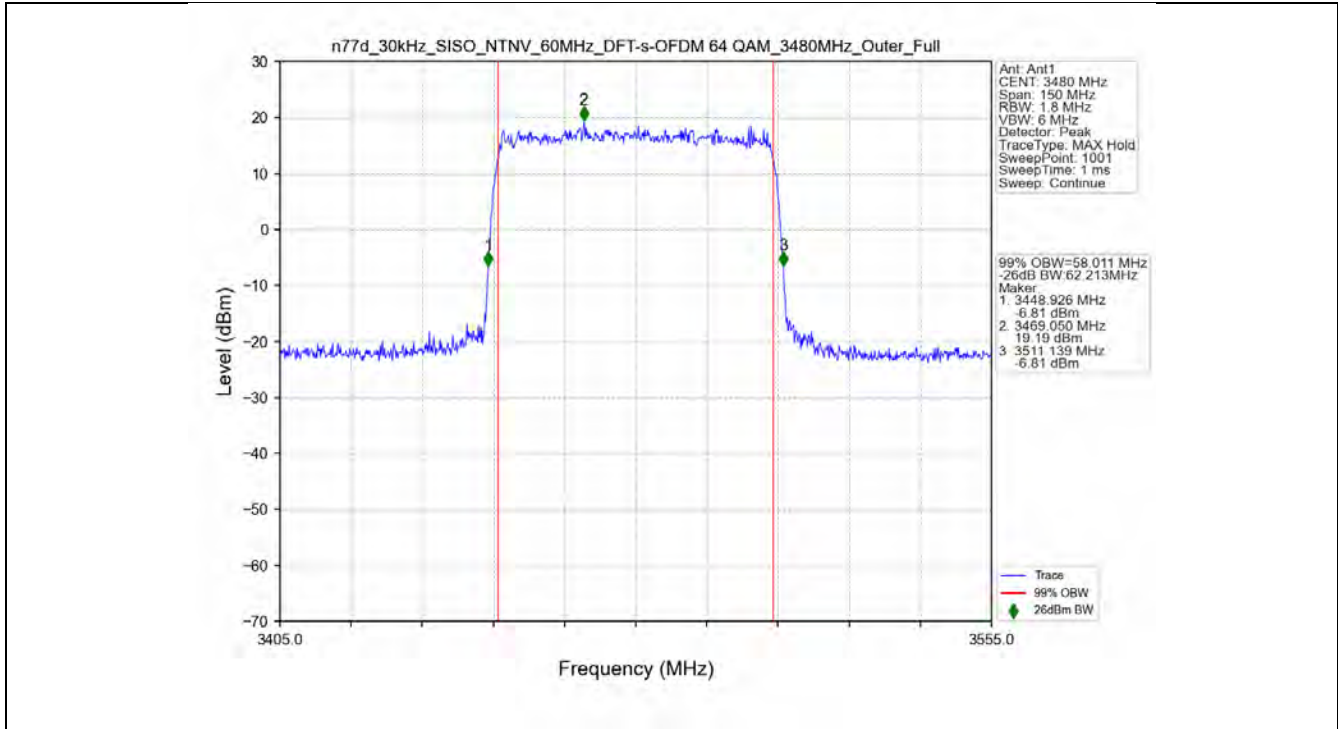


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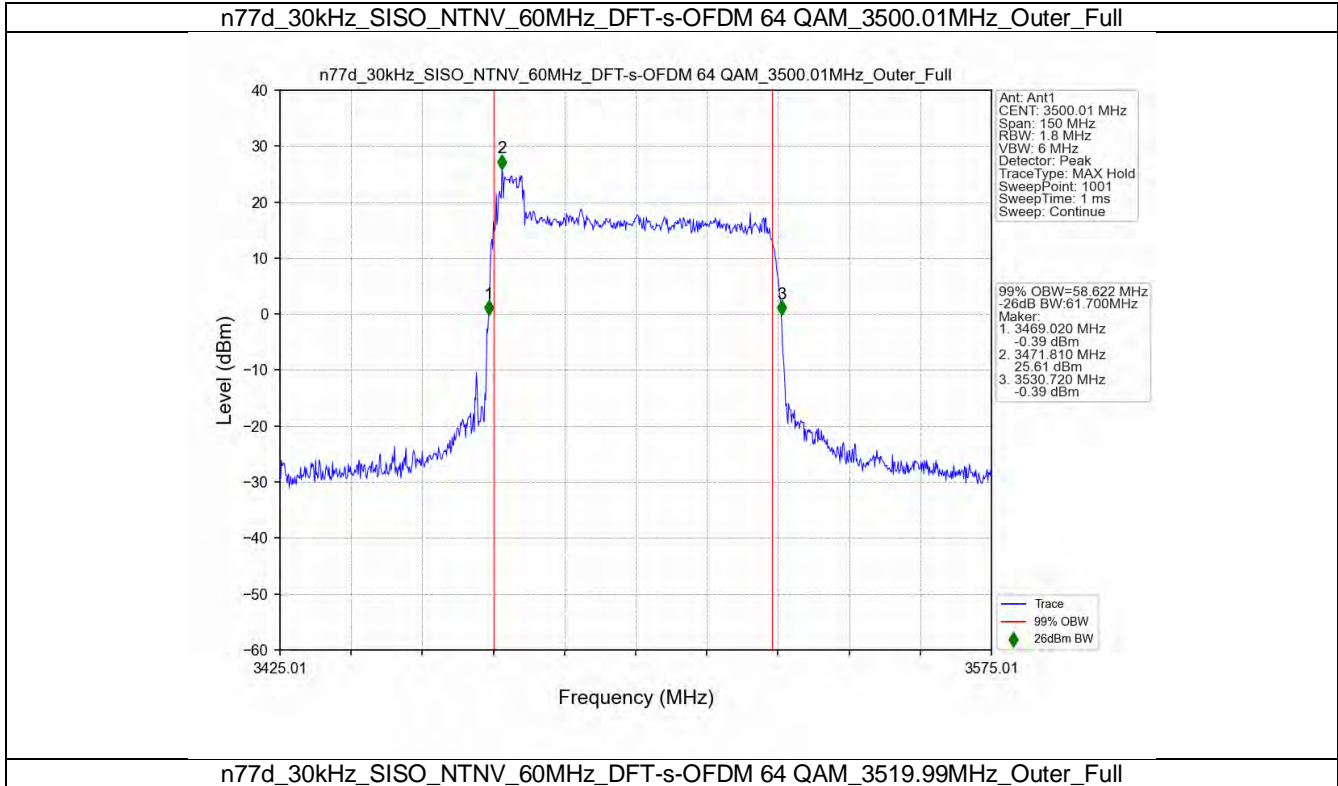


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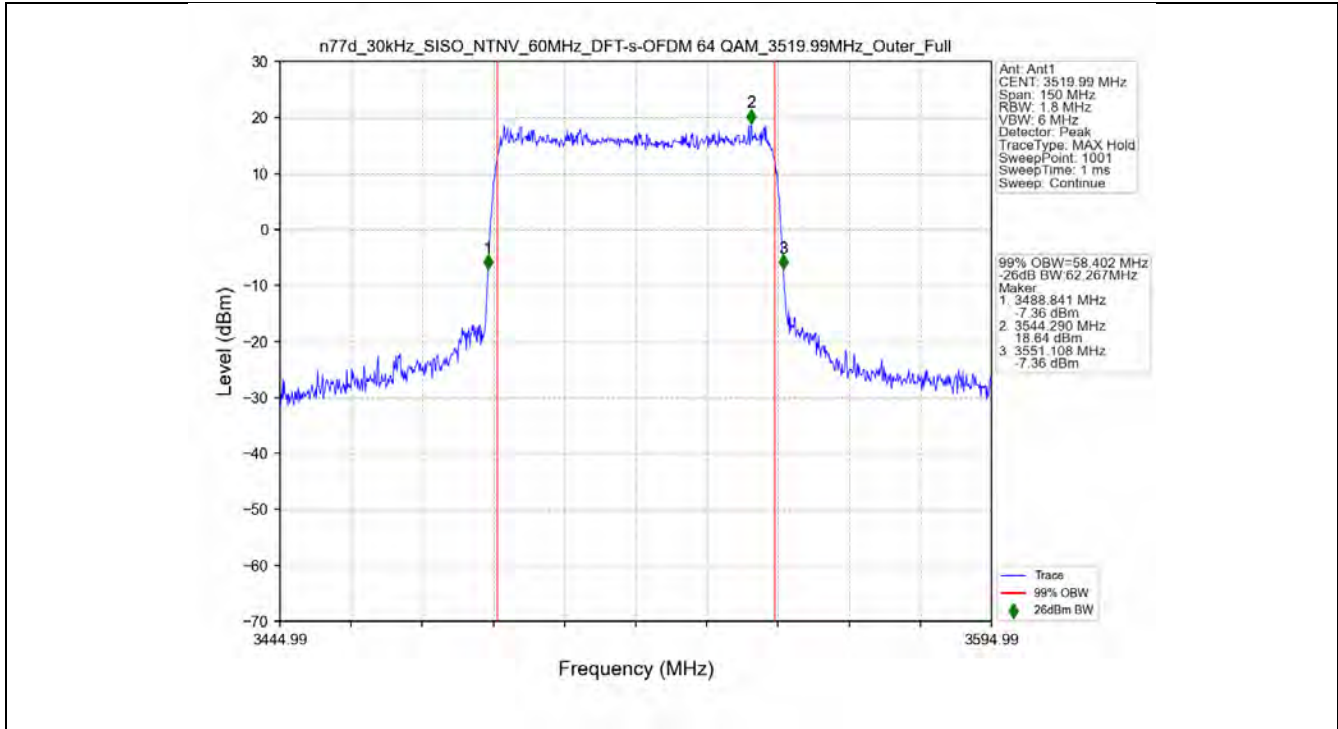


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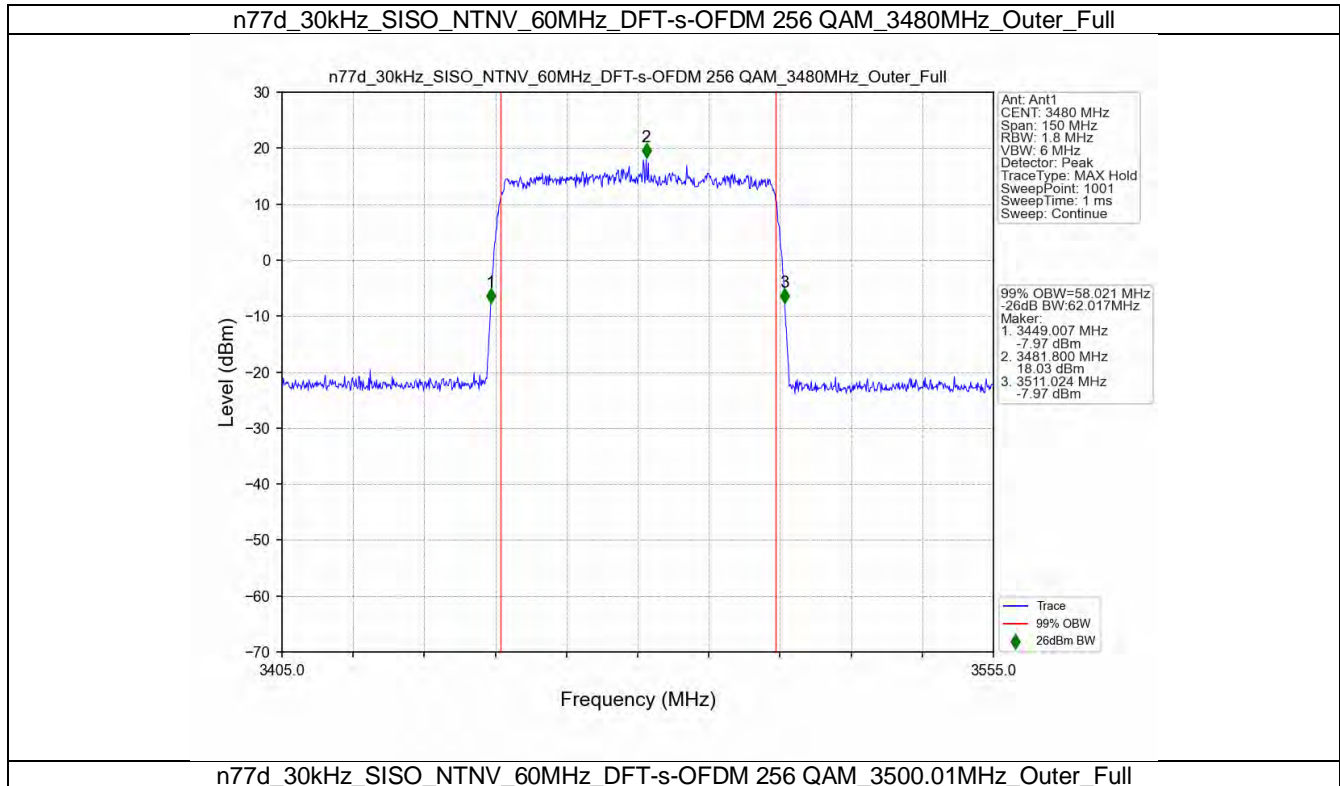


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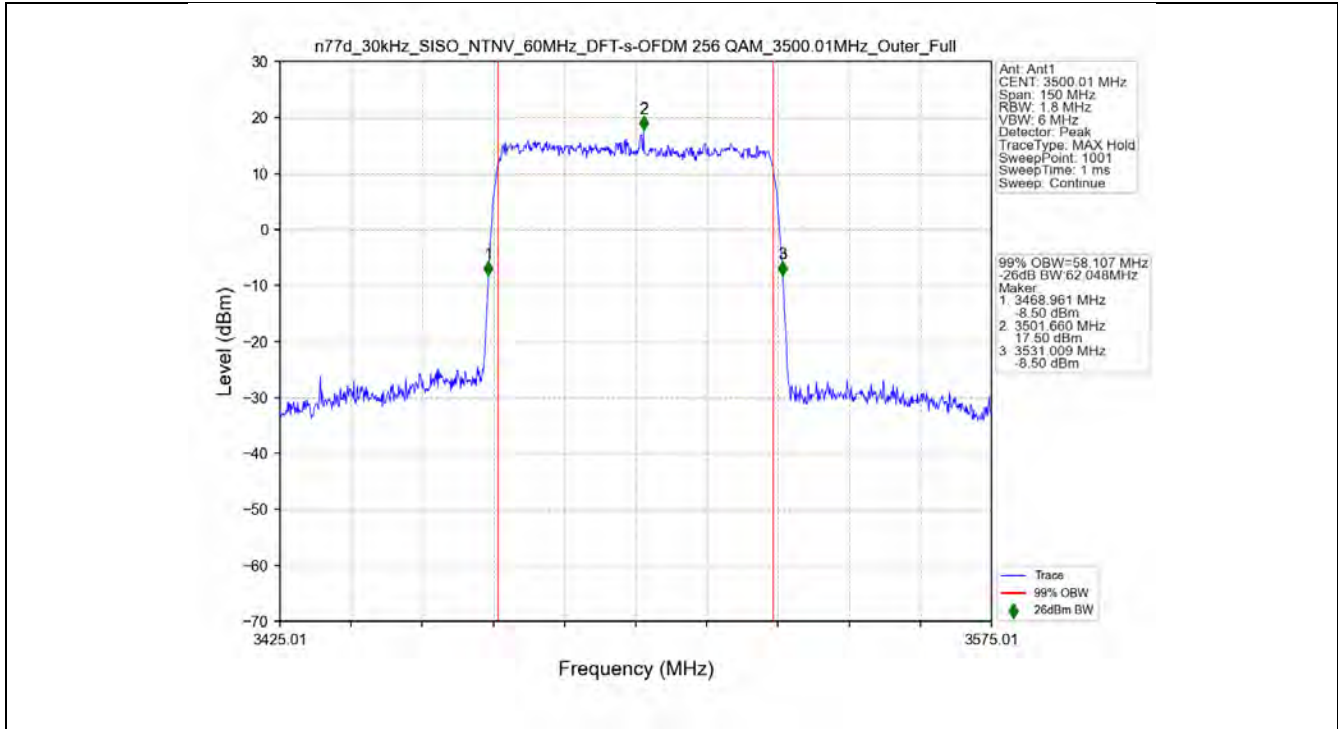


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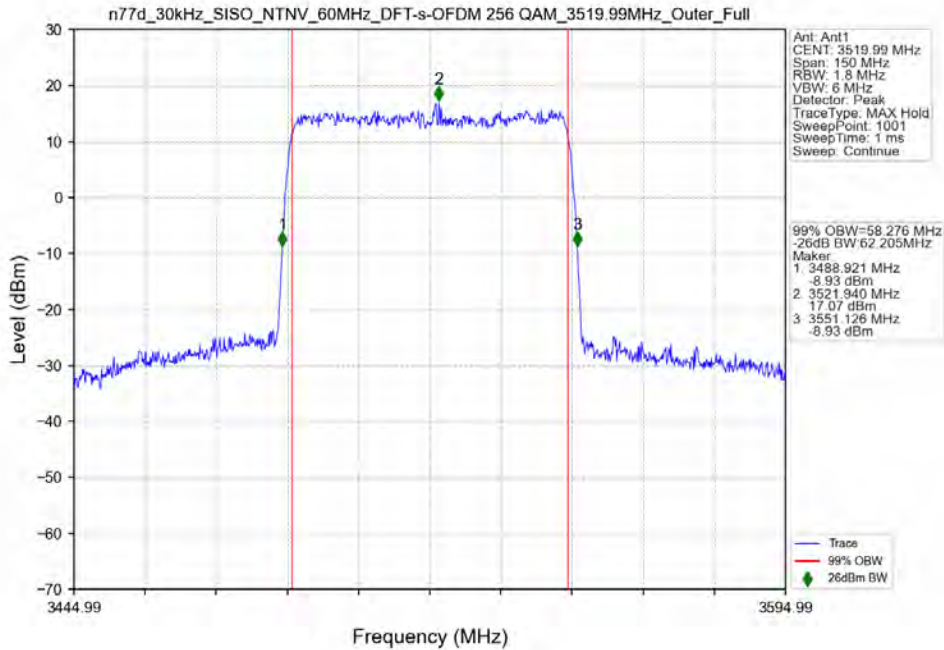
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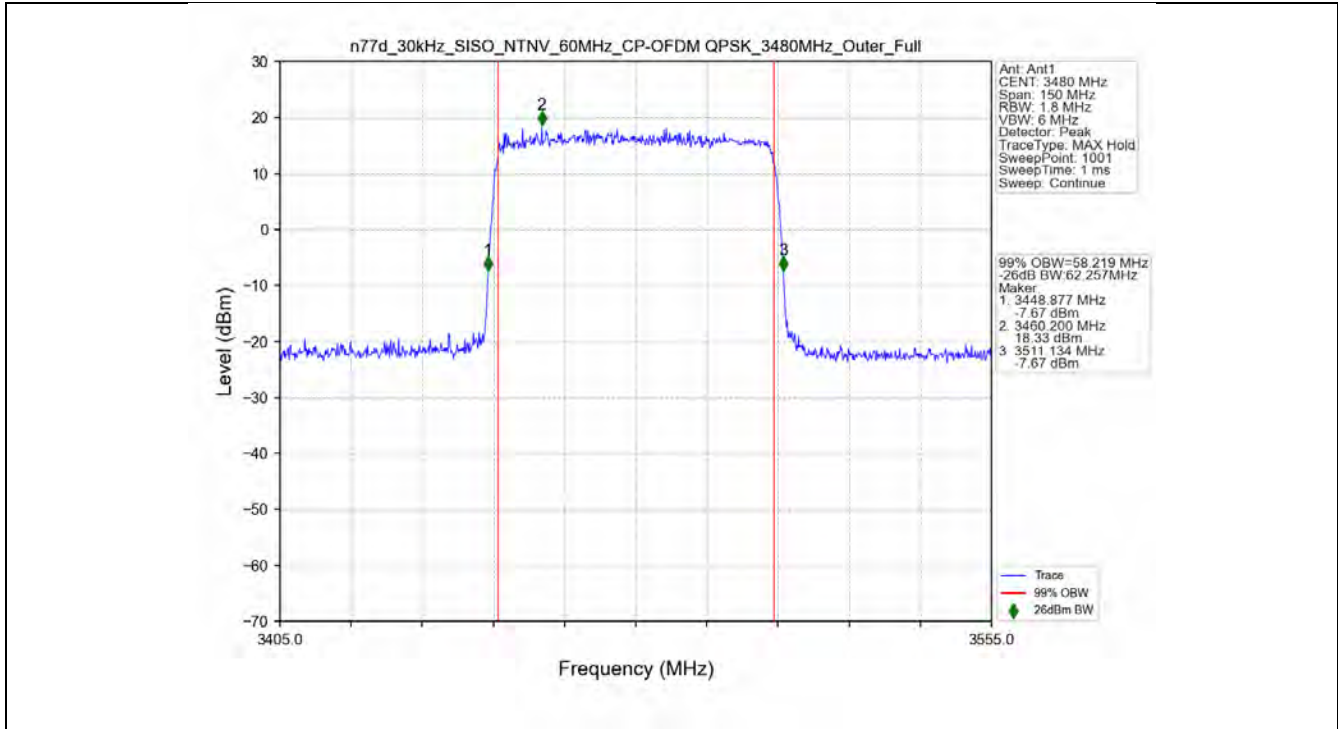


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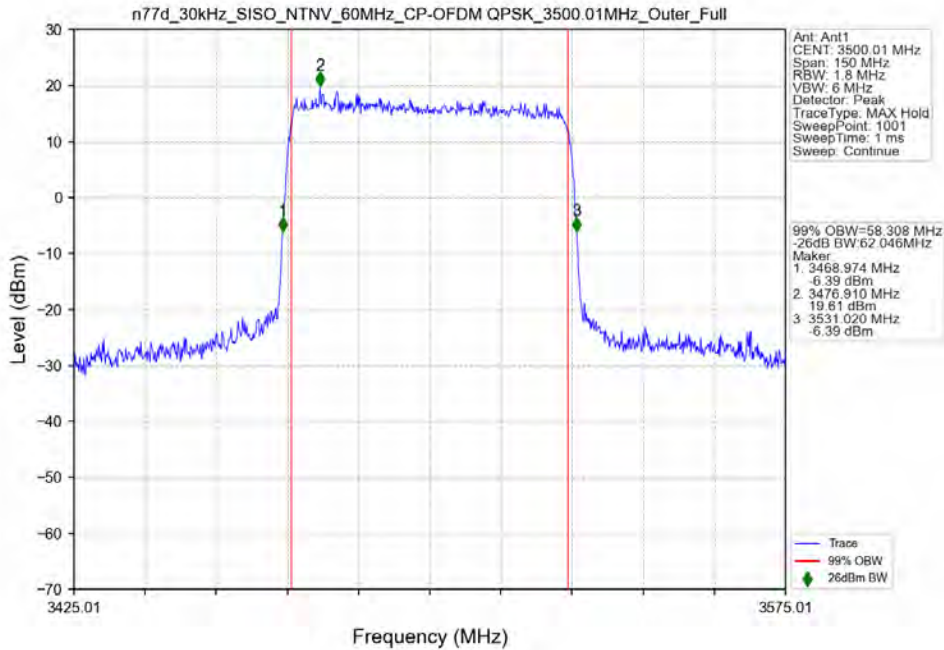
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n77d\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3500.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3519.99MHz\_Outer\_Full



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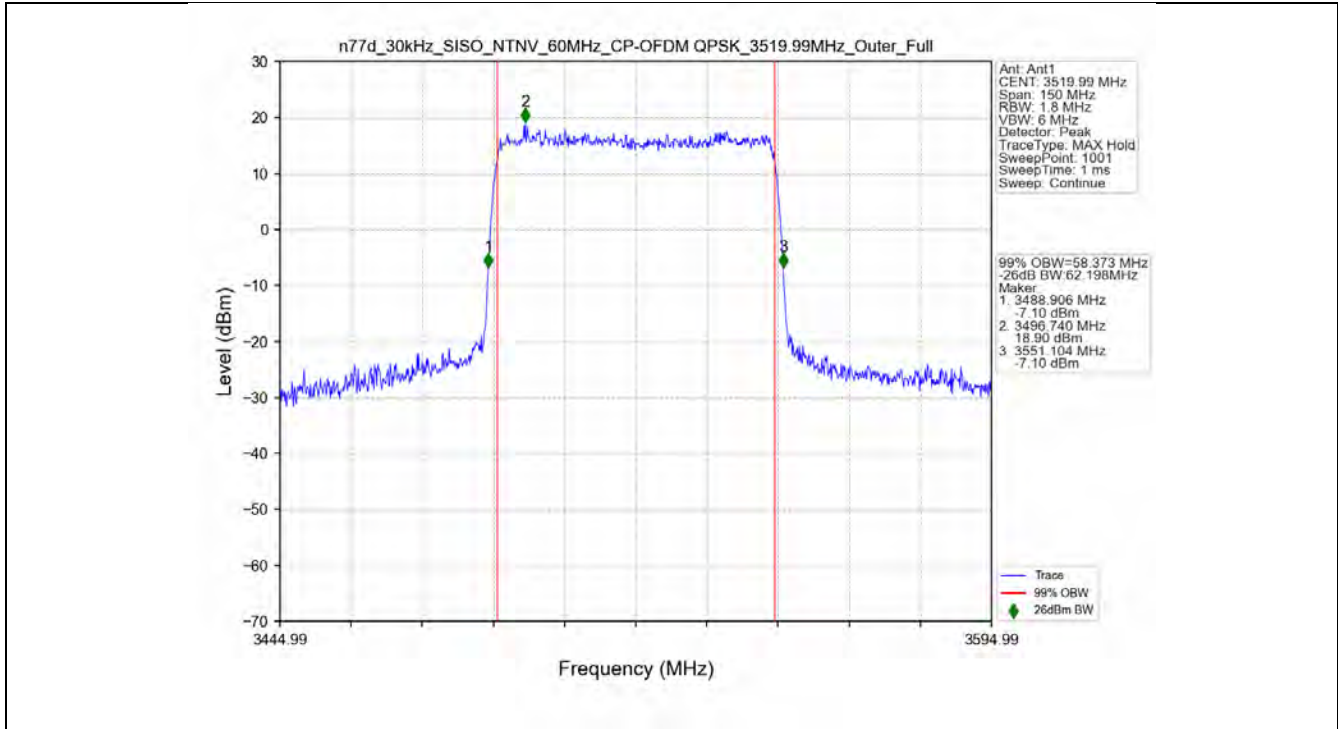


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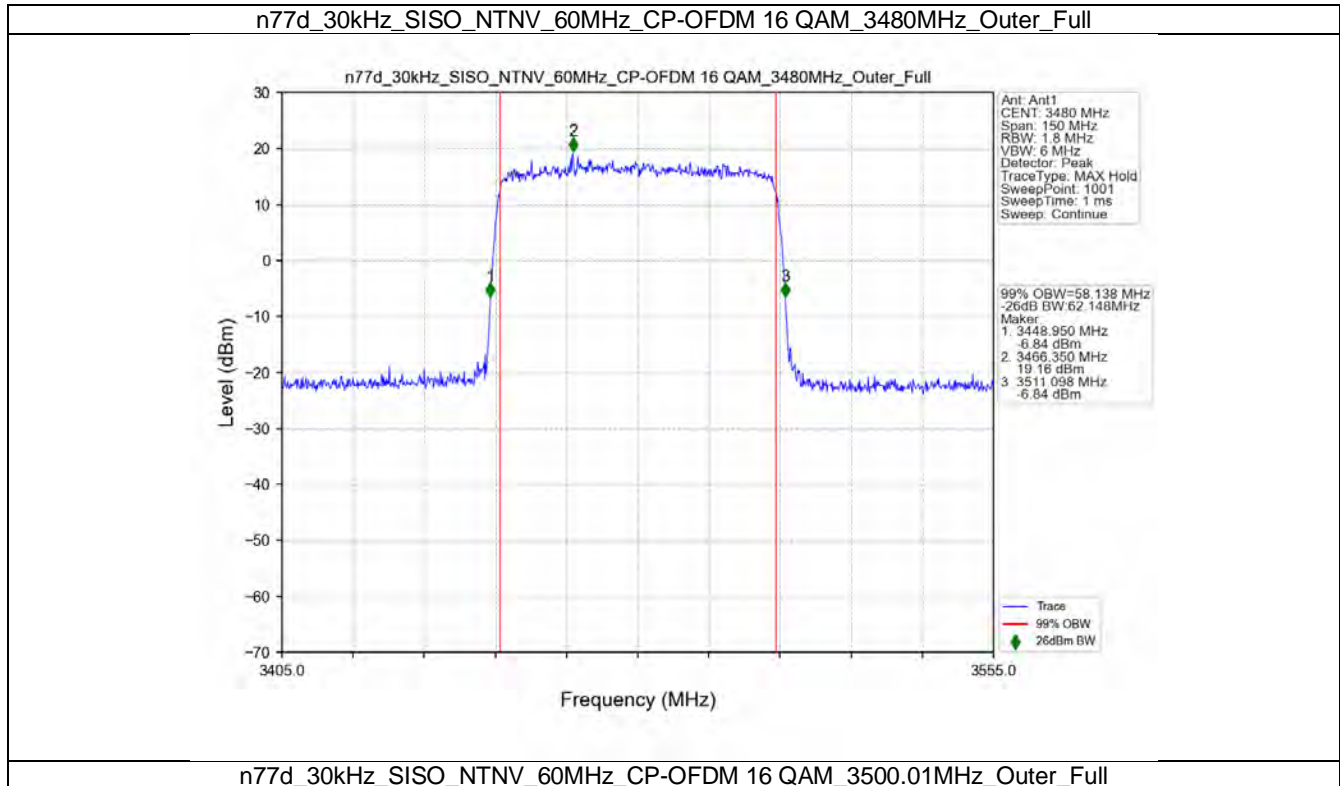


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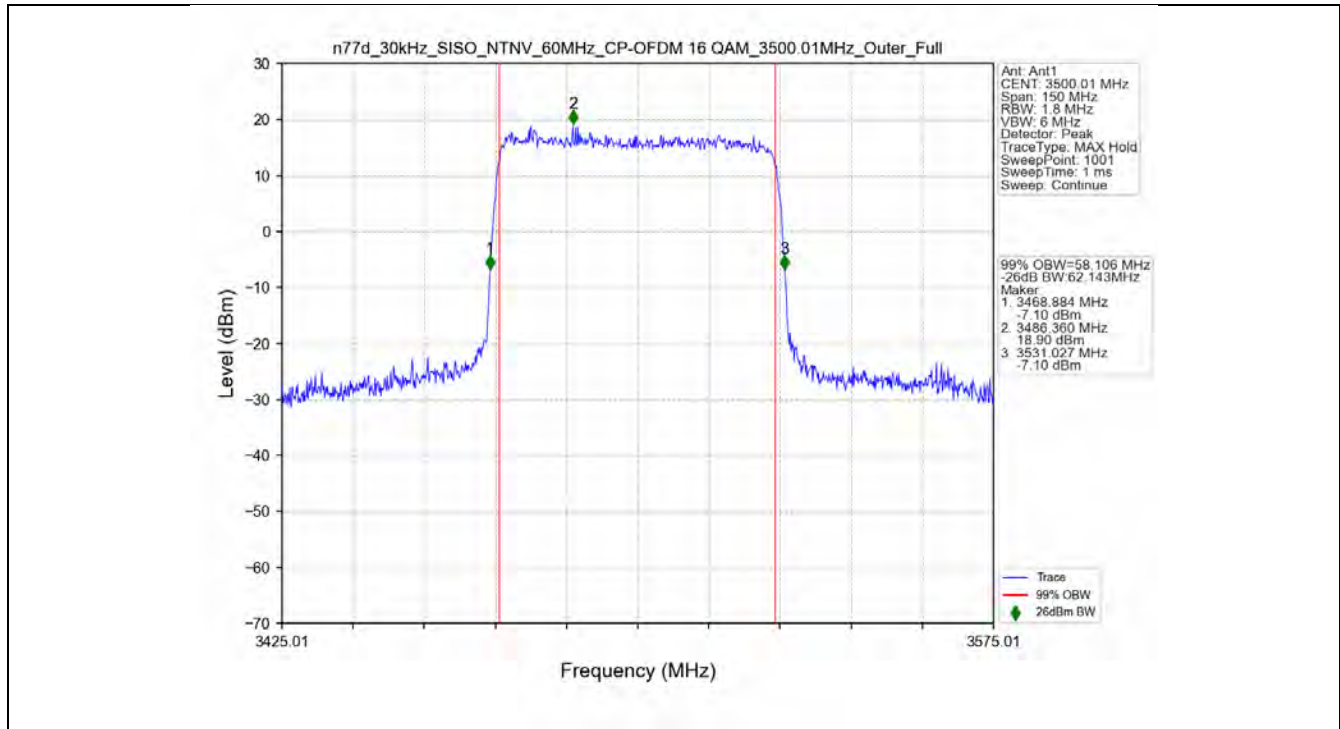


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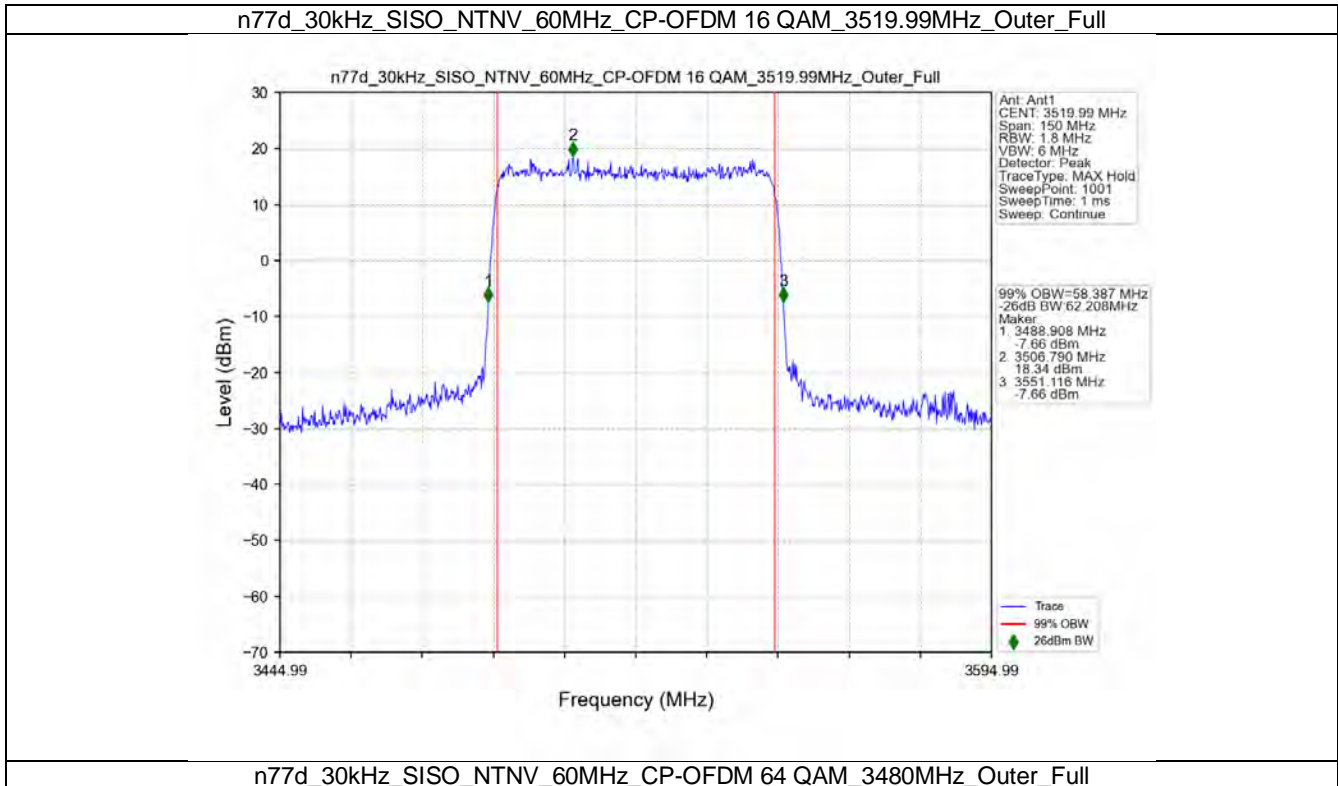


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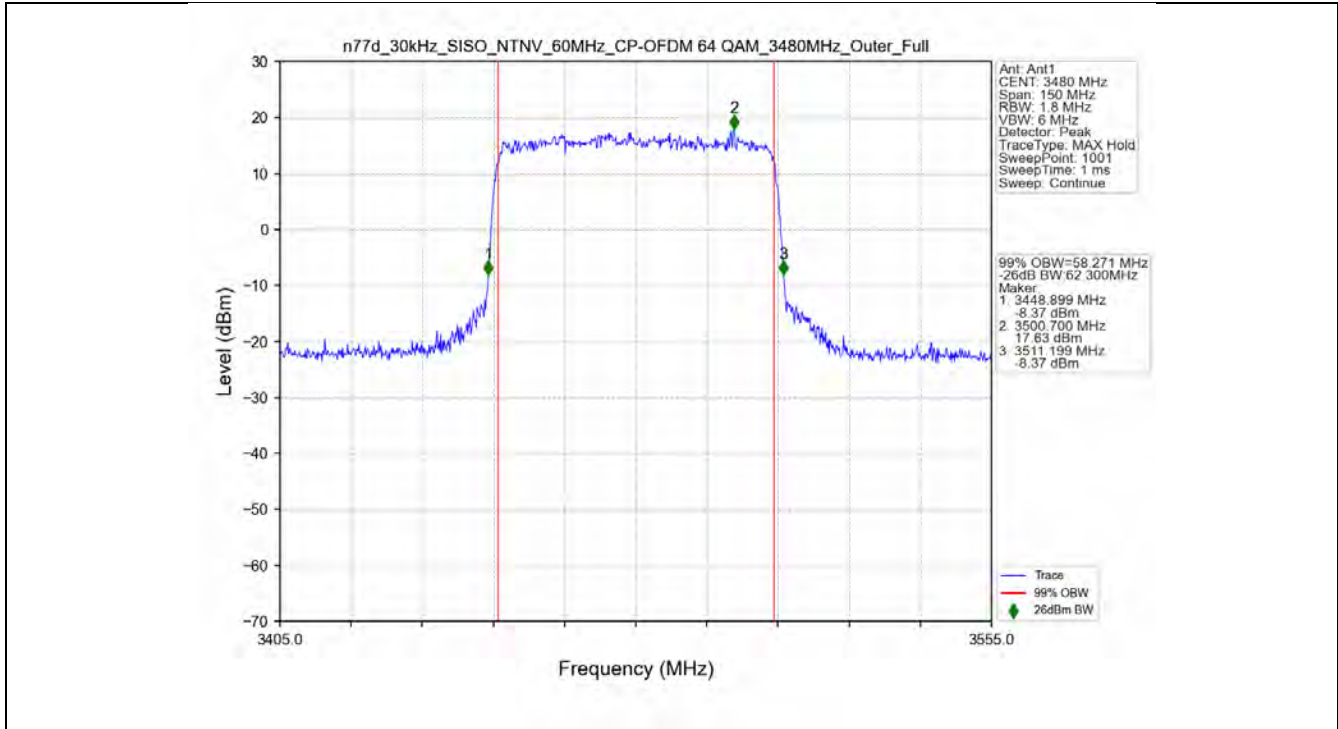


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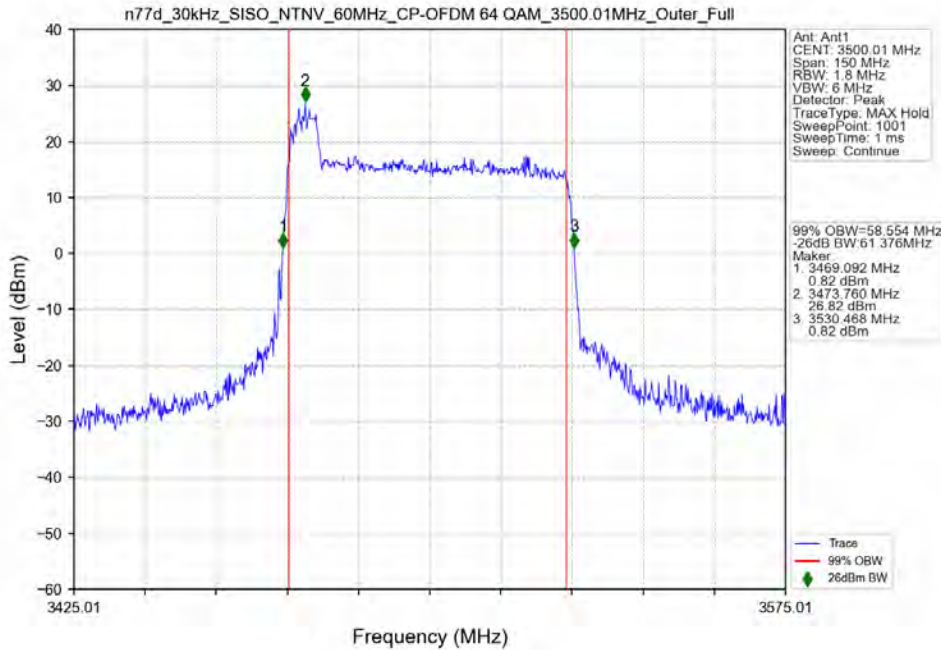
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n77d\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM 64 QAM\_3519.99MHz\_Outer\_Full



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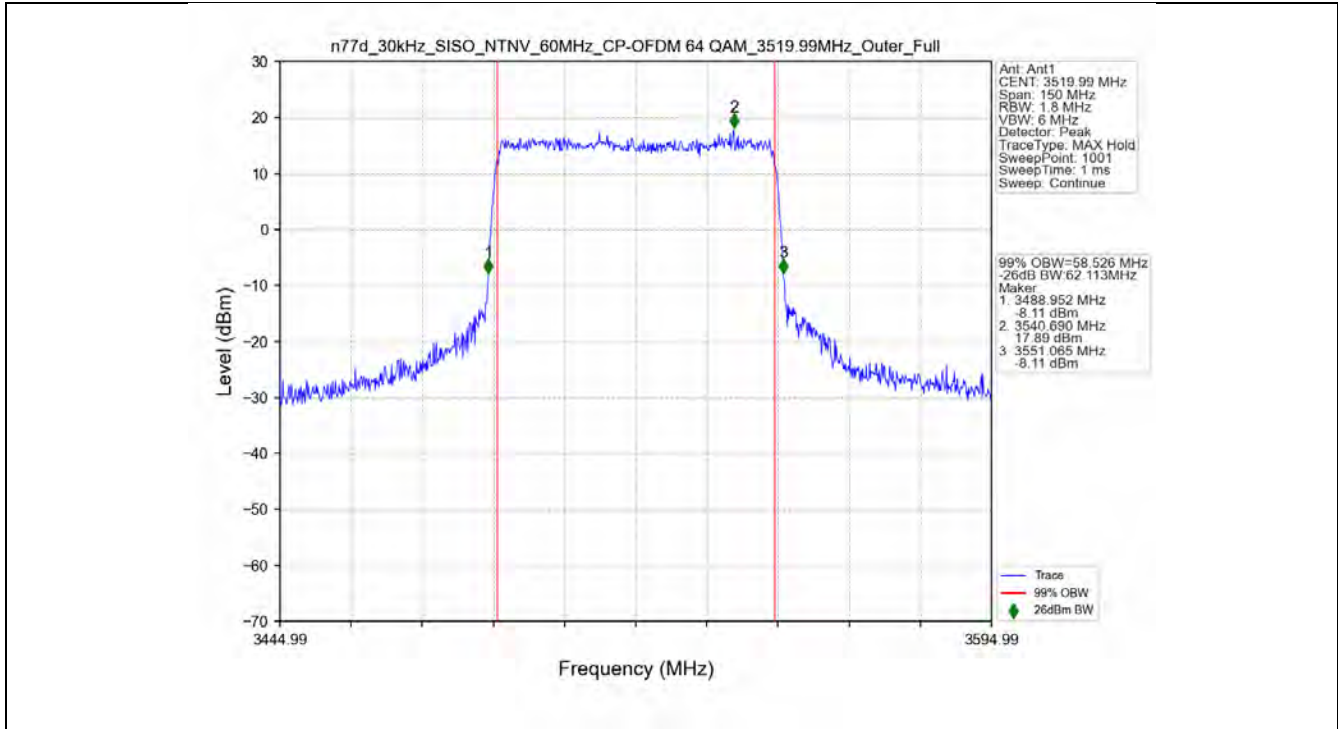


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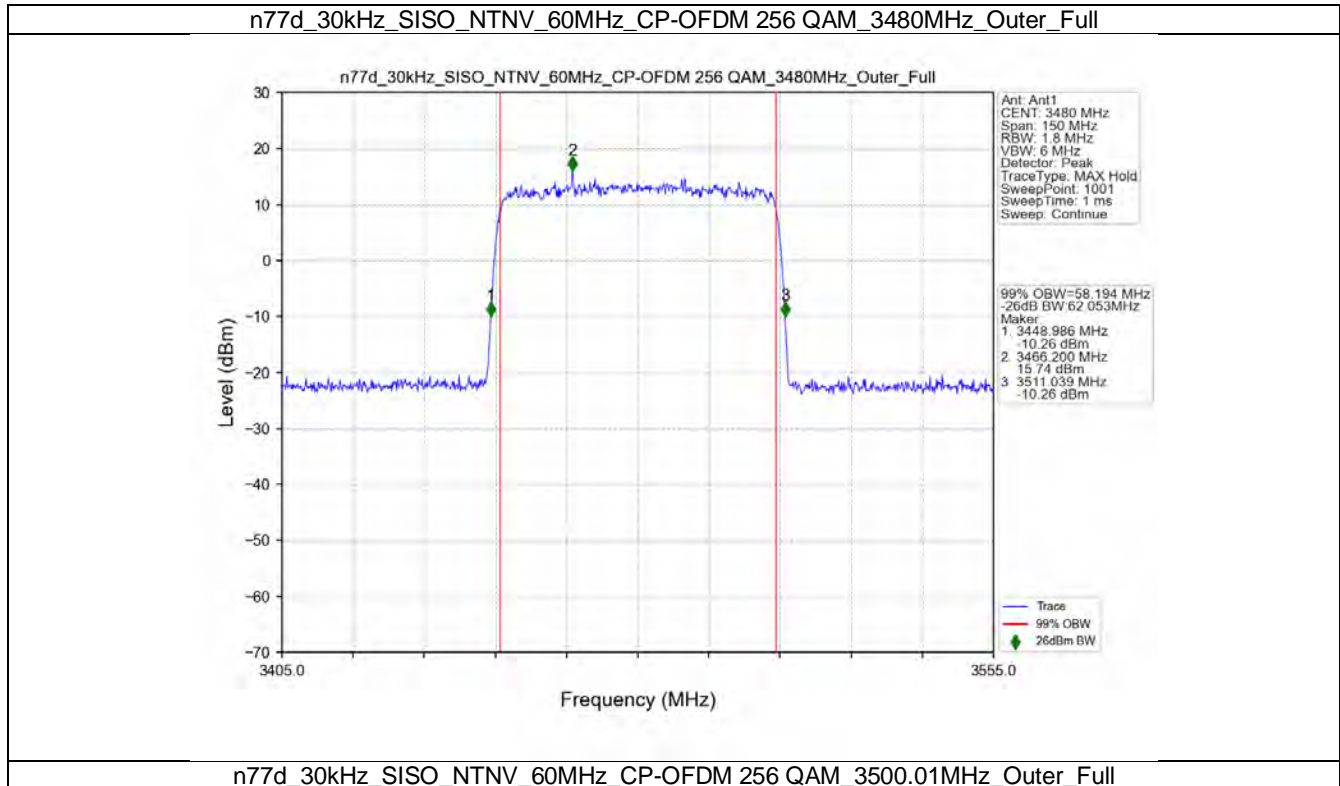


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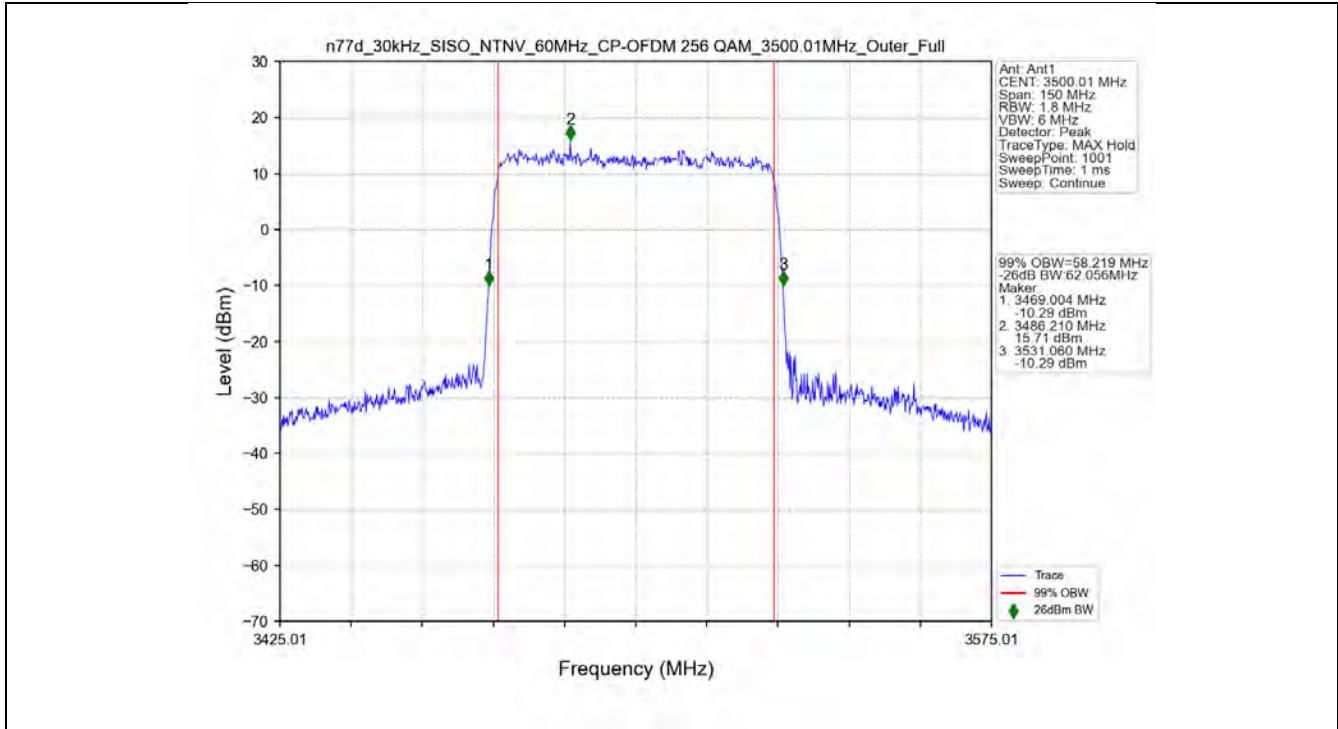


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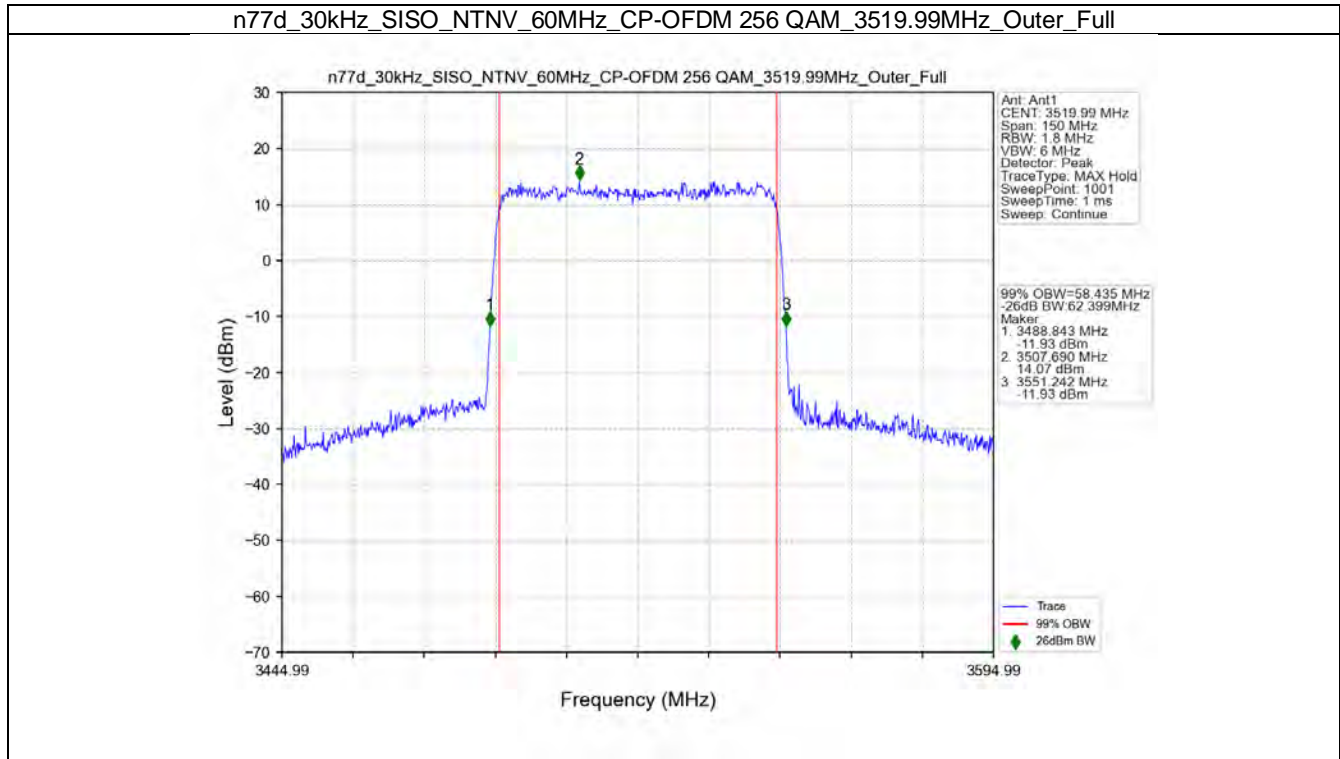


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## 3.5 30k\_SISO\_80MHz\_NTNV

### 3.5.1 Test Result

5G NR n77d SCS=30kHz SISO 80MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3490.02	Outer_Full	77.63	82.64	/	Pass
	3500.01	Outer_Full	77.73	82.52	/	Pass
	3510	Outer_Full	77.95	82.76	/	Pass
DFT-s-OFDM QPSK	3490.02	Outer_Full	77.55	83.15	/	Pass
	3500.01	Outer_Full	77.77	82.68	/	Pass
	3510	Outer_Full	77.85	82.38	/	Pass
DFT-s-OFDM 16 QAM	3490.02	Outer_Full	78.33	82.17	/	Pass
	3500.01	Outer_Full	77.50	82.50	/	Pass
	3510	Outer_Full	78.13	82.72	/	Pass
DFT-s-OFDM 64 QAM	3490.02	Outer_Full	77.38	82.71	/	Pass
	3500.01	Outer_Full	77.86	82.91	/	Pass
	3510	Outer_Full	77.61	83.11	/	Pass
DFT-s-OFDM 256 QAM	3490.02	Outer_Full	77.64	82.85	/	Pass
	3500.01	Outer_Full	77.79	82.03	/	Pass
	3510	Outer_Full	77.74	82.79	/	Pass
CP-OFDM QPSK	3490.02	Outer_Full	77.86	83.10	/	Pass
	3500.01	Outer_Full	77.99	82.73	/	Pass
	3510	Outer_Full	78.04	82.76	/	Pass
CP-OFDM 16 QAM	3490.02	Outer_Full	77.92	83.23	/	Pass
	3500.01	Outer_Full	77.92	82.86	/	Pass
	3510	Outer_Full	78.14	82.31	/	Pass
CP-OFDM 64 QAM	3490.02	Outer_Full	78.48	82.42	/	Pass
	3500.01	Outer_Full	78.10	82.72	/	Pass
	3510	Outer_Full	77.94	83.13	/	Pass
CP-OFDM 256 QAM	3490.02	Outer_Full	77.83	83.45	/	Pass
	3500.01	Outer_Full	77.94	83.13	/	Pass
	3510	Outer_Full	78.17	82.84	/	Pass



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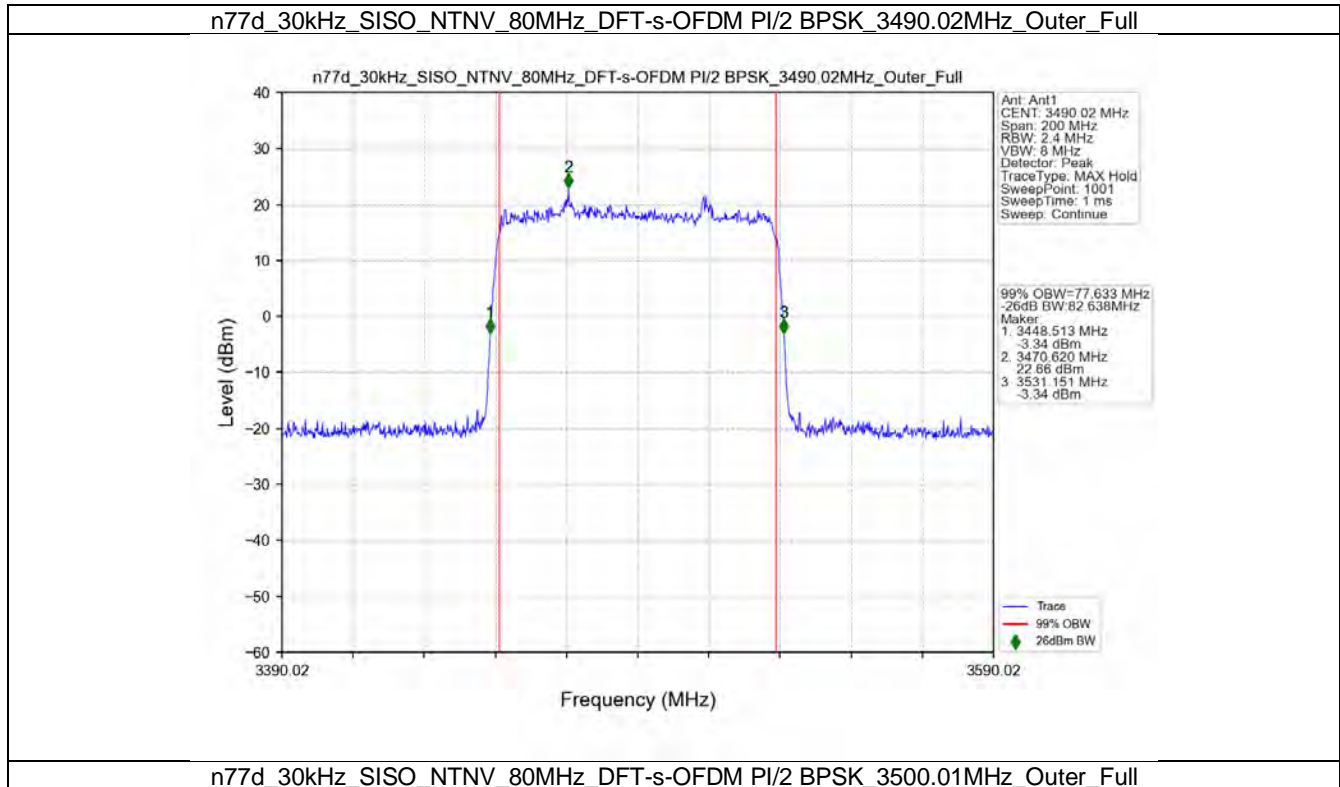
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3.5.2 Test Graph



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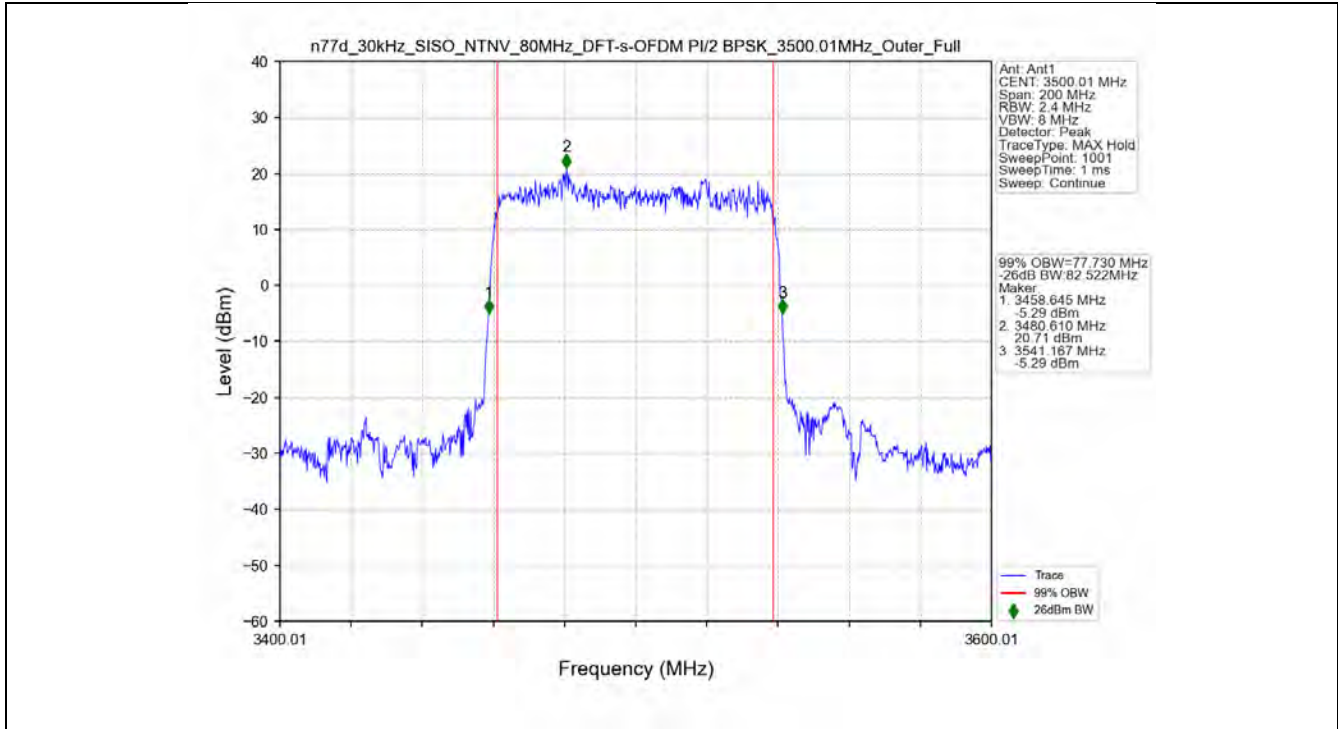


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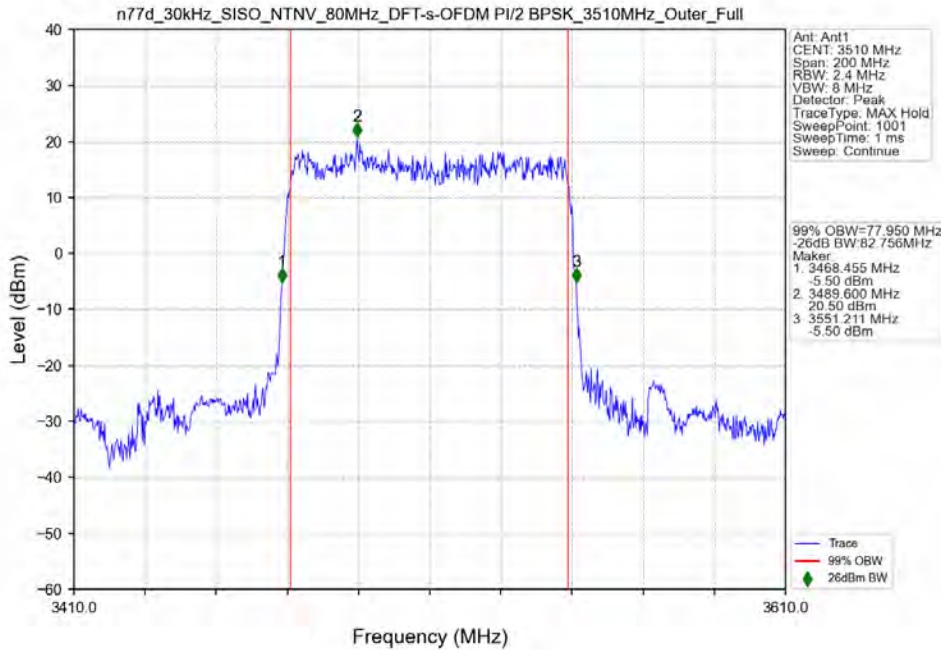
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n77d\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3490.02MHz\_Outer\_Full



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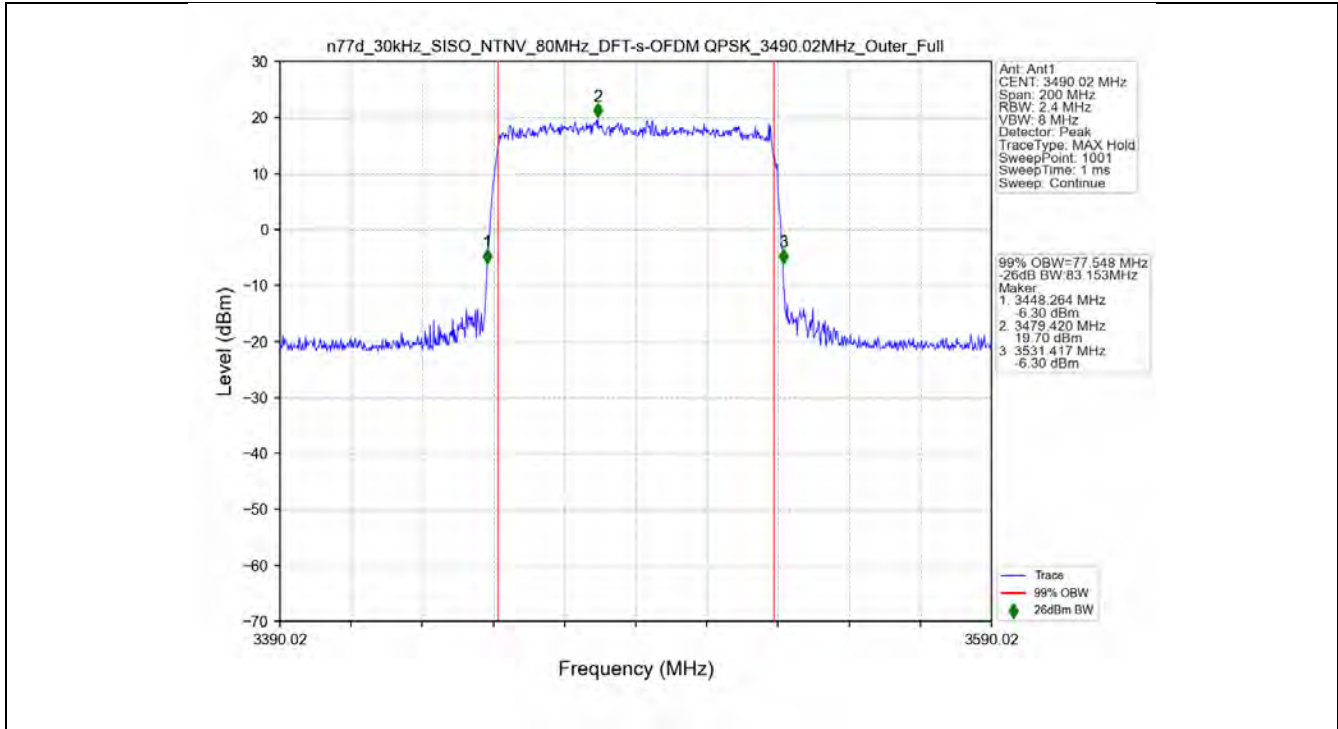


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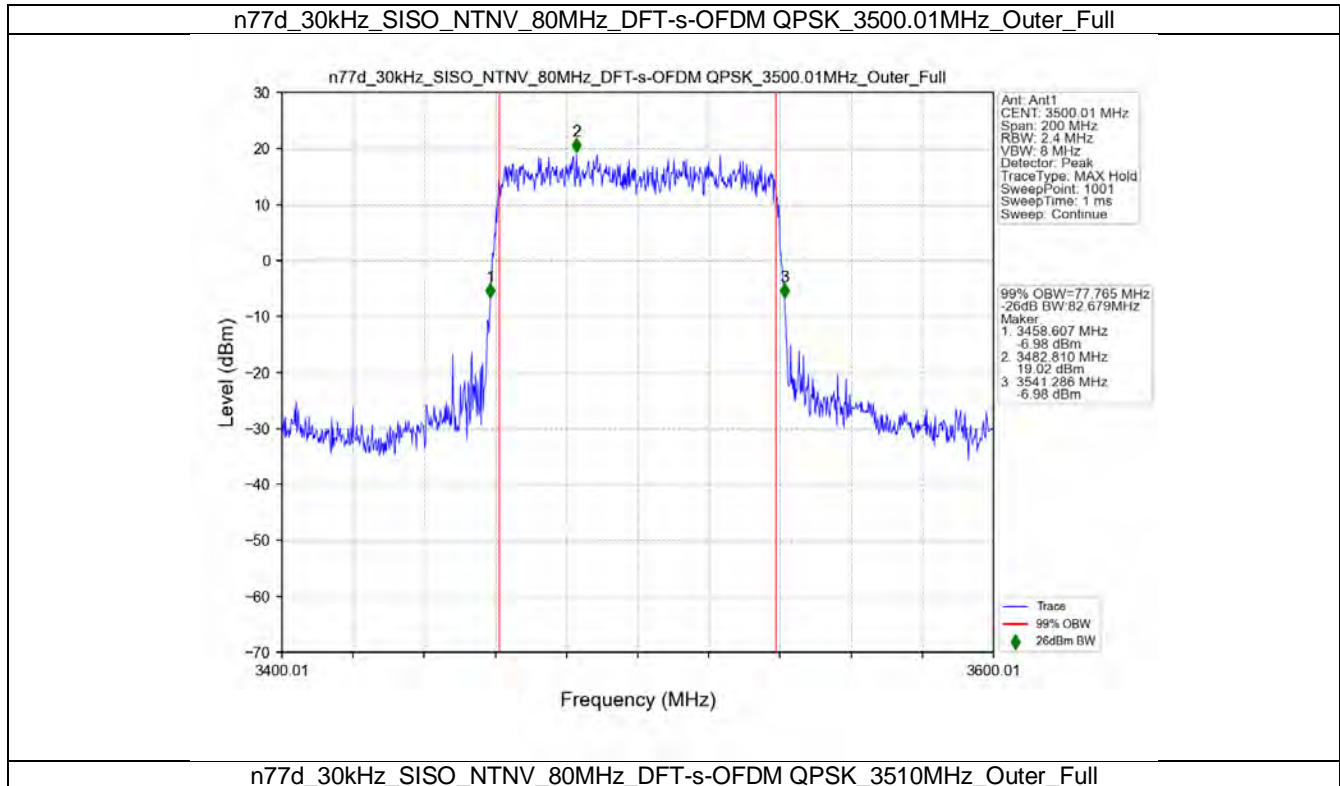


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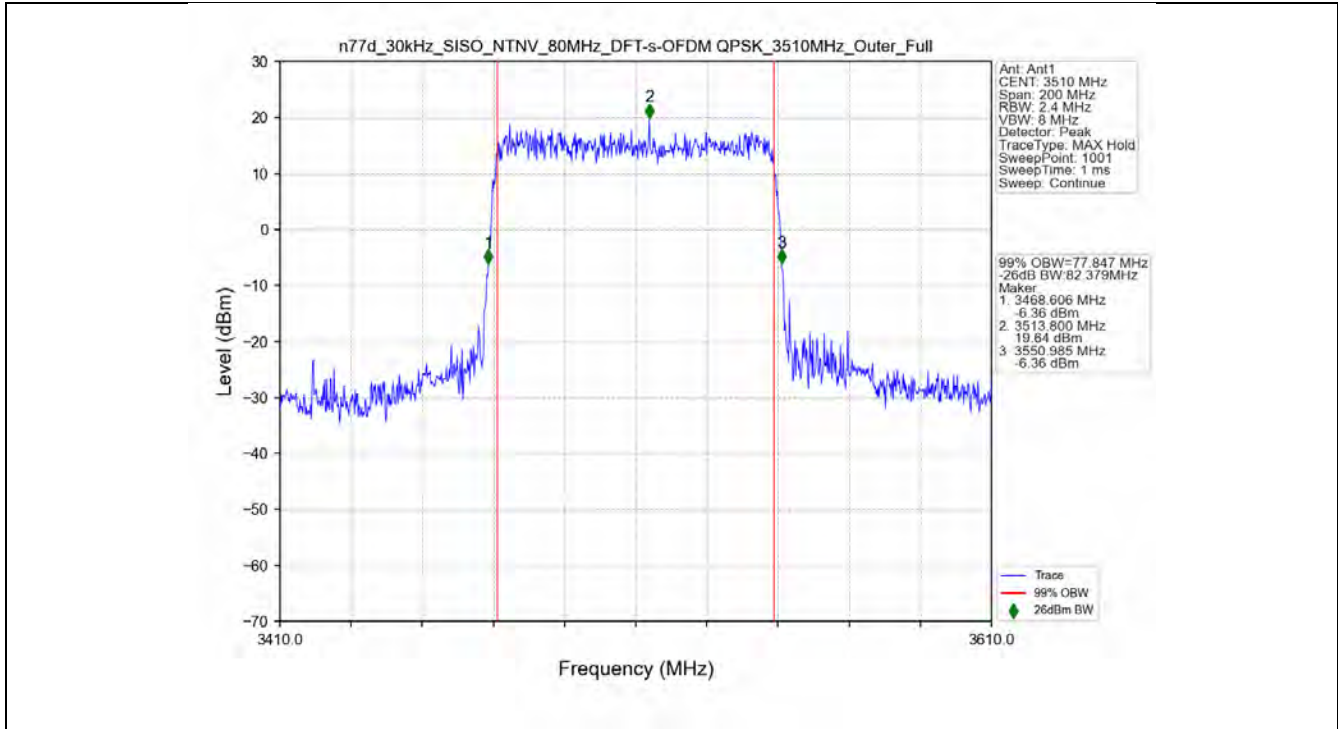


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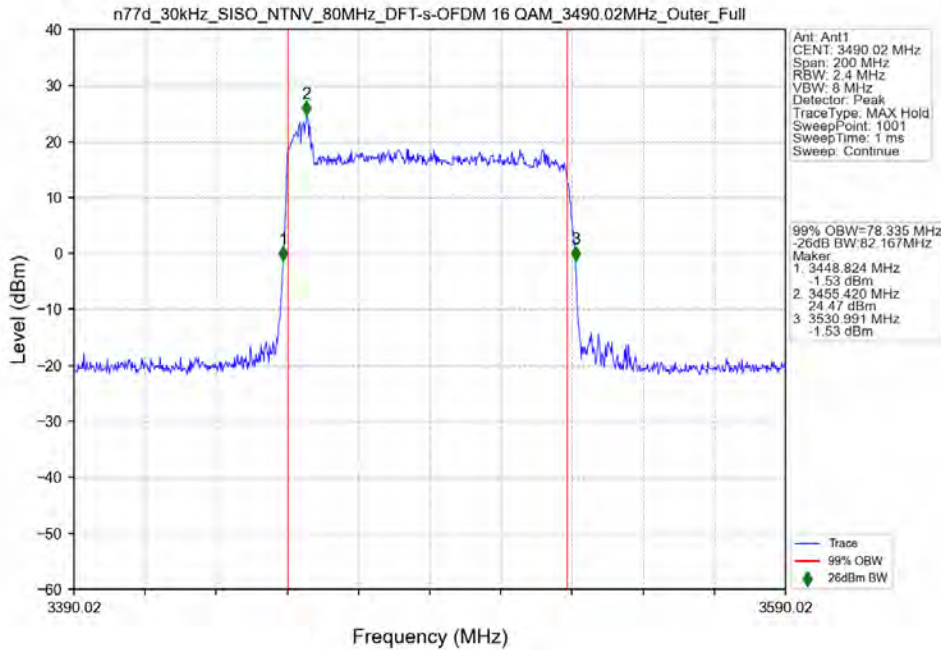
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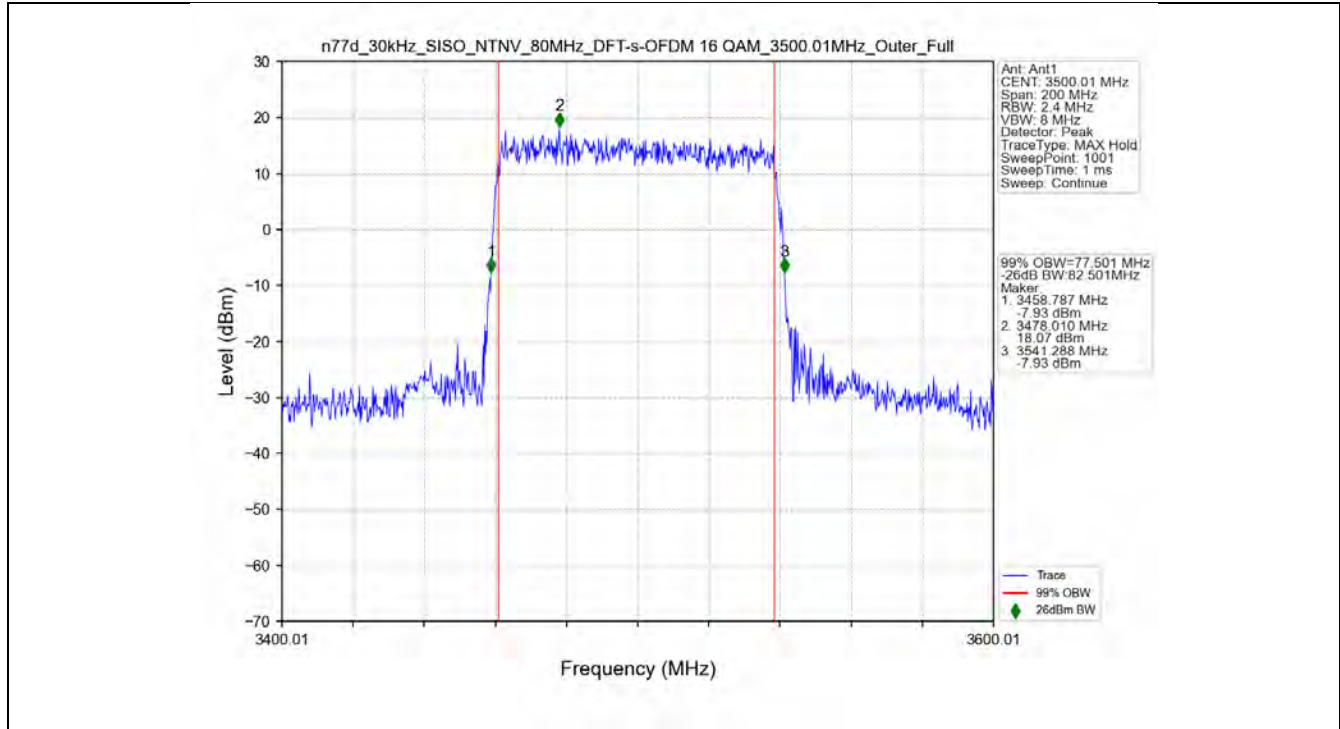


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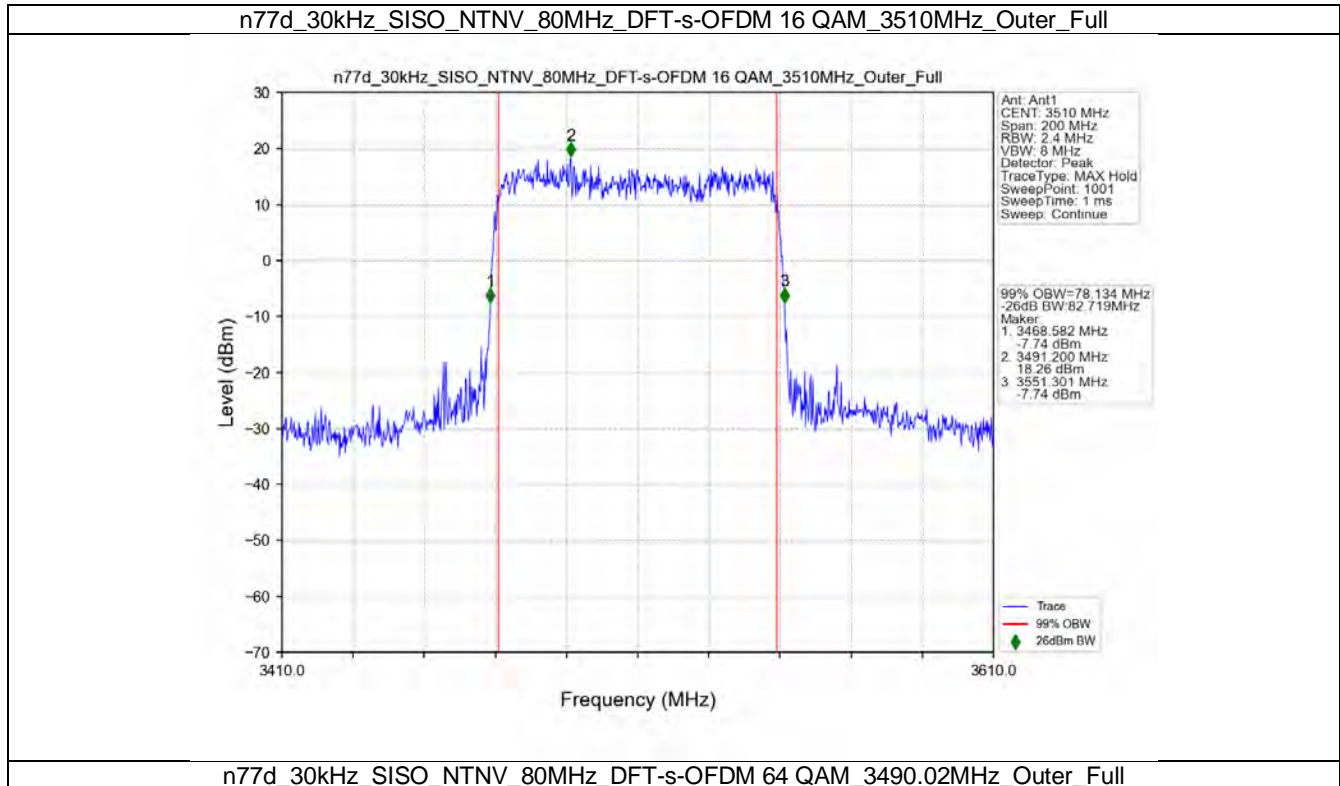


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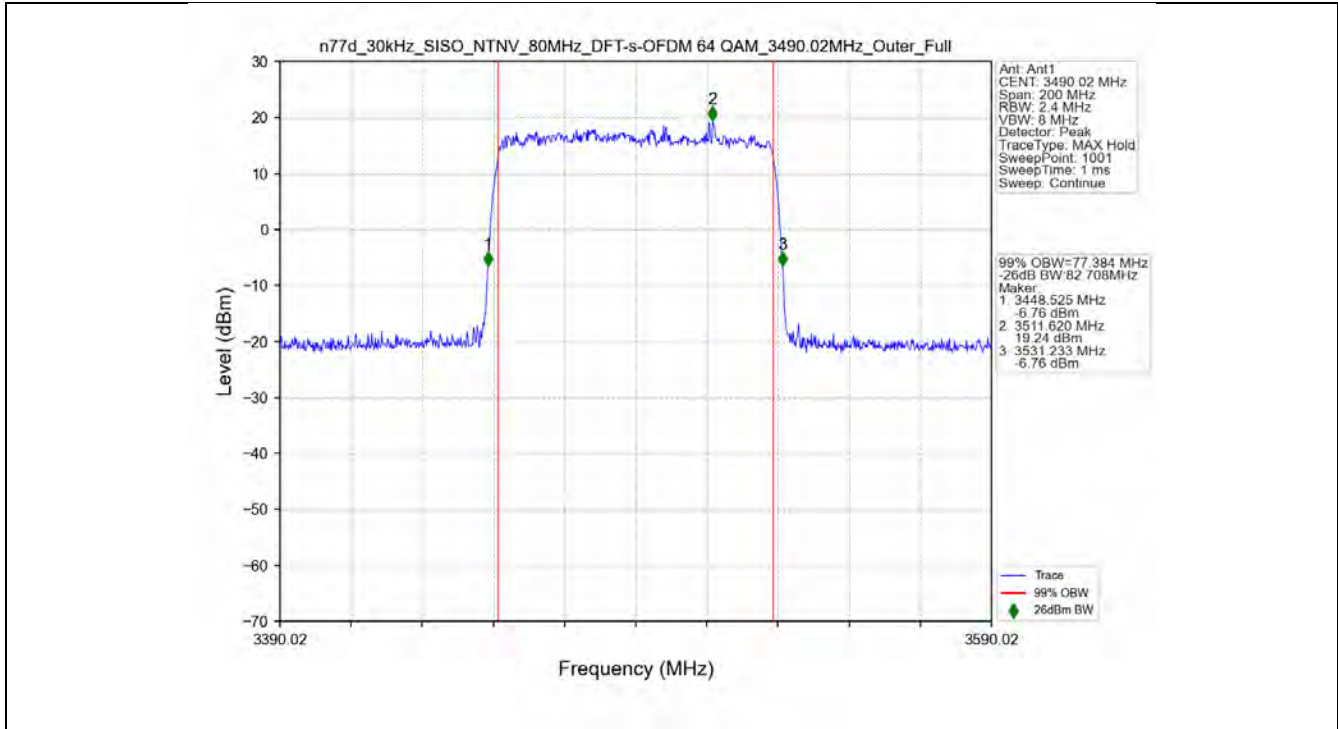


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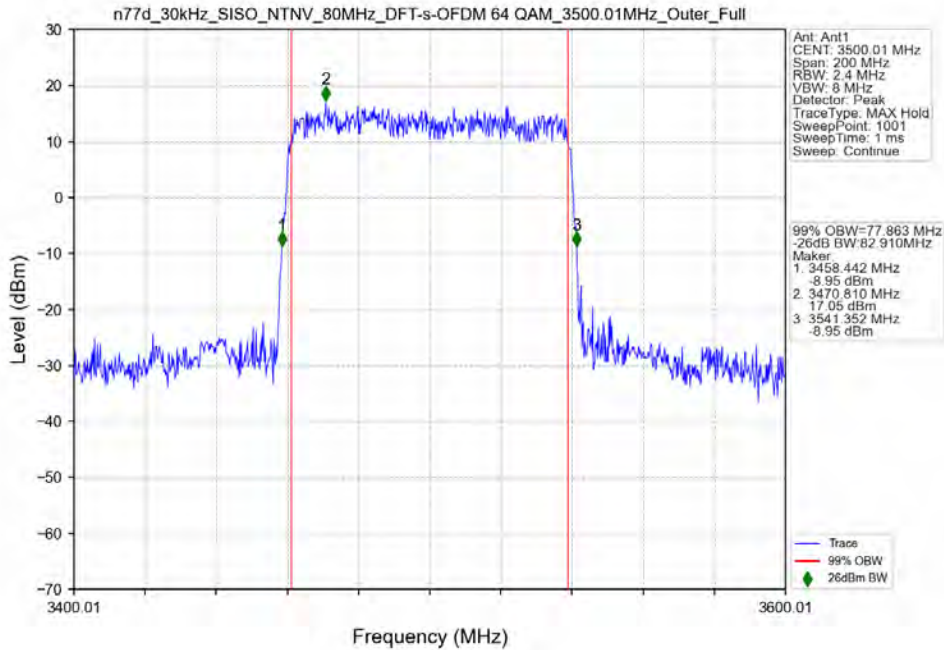
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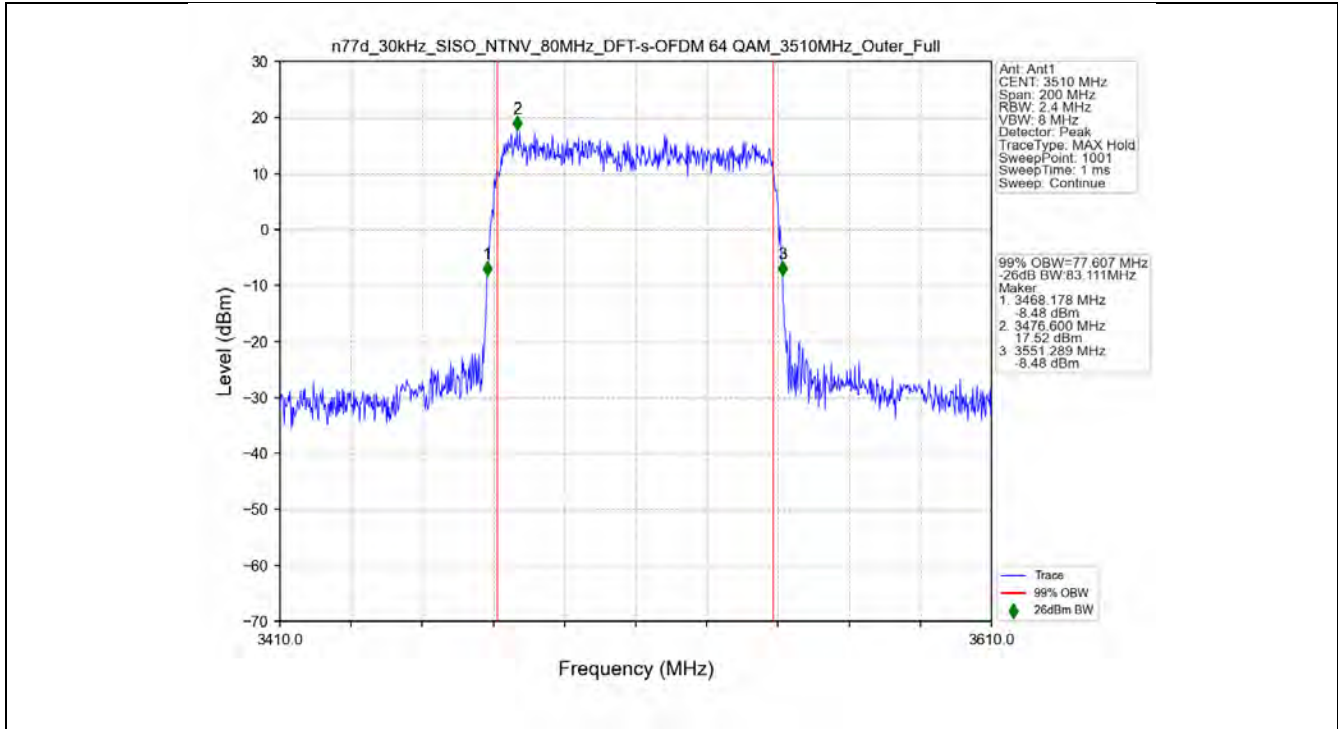


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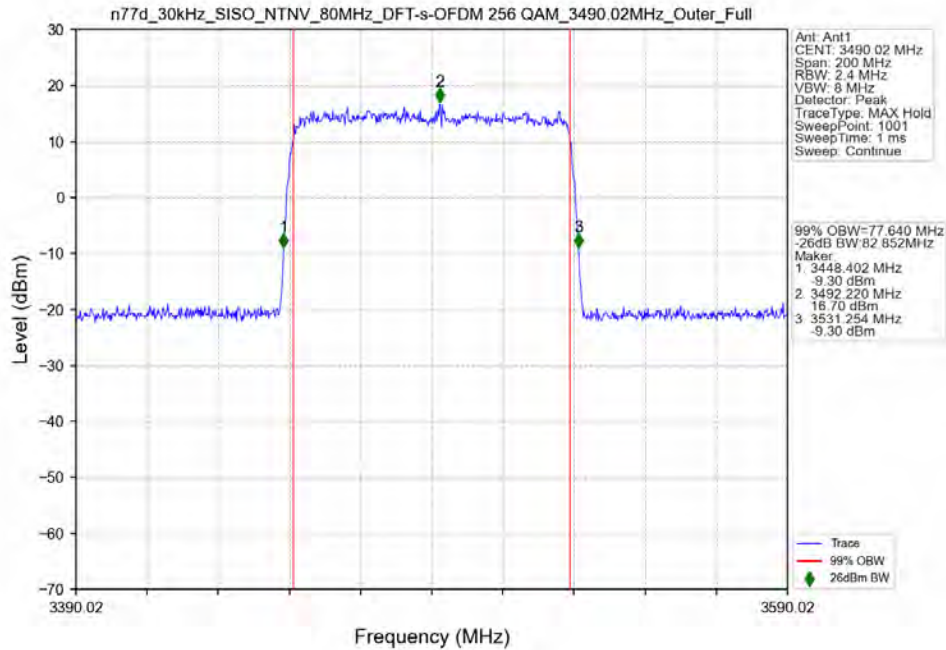
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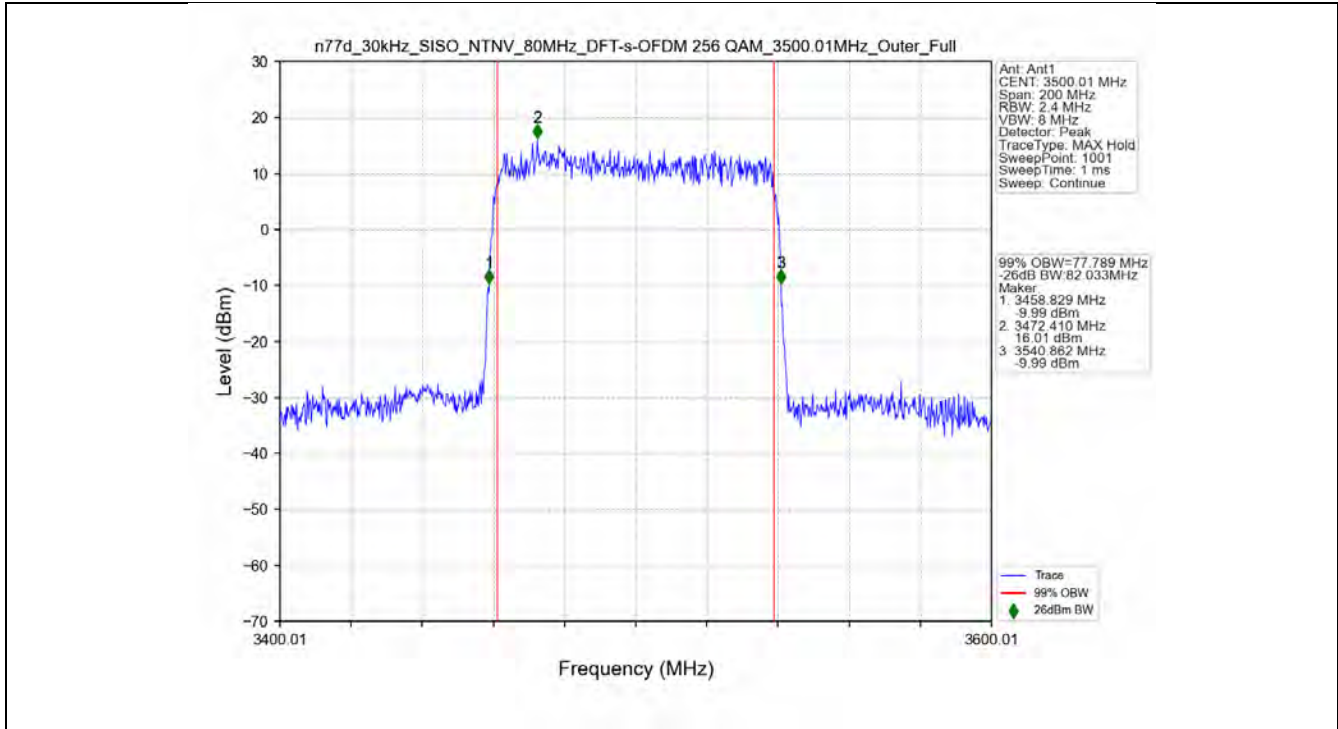


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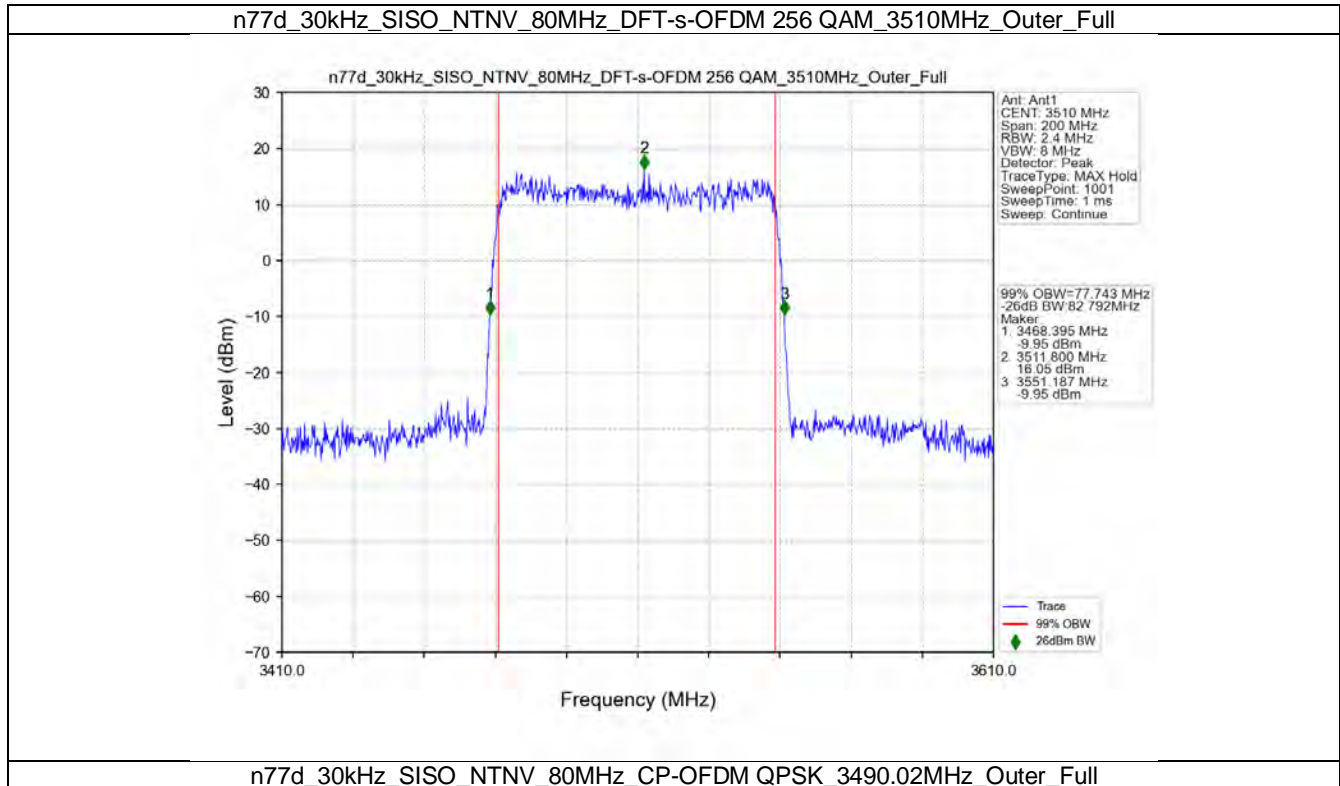


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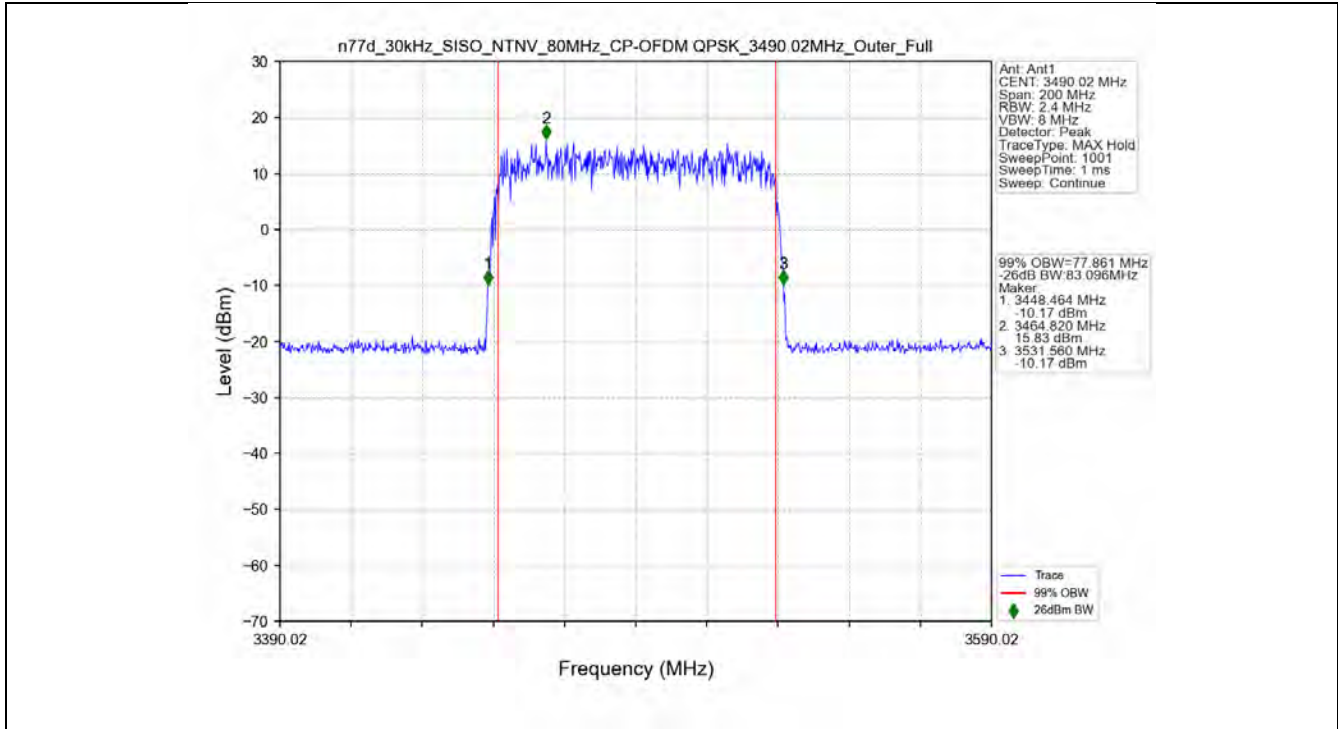


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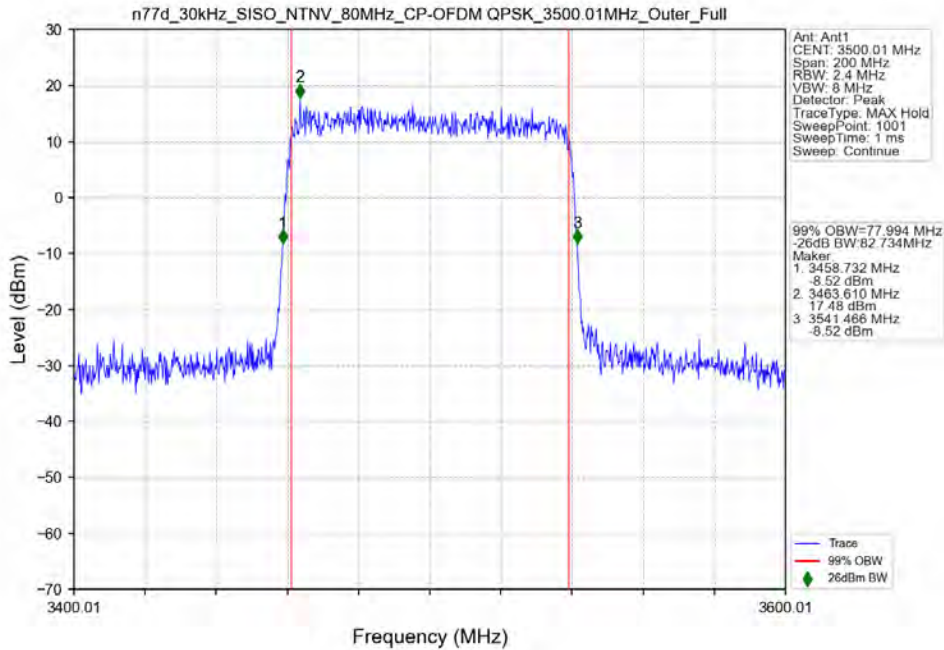
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n77d\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3500.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3510MHz\_Outer\_Full



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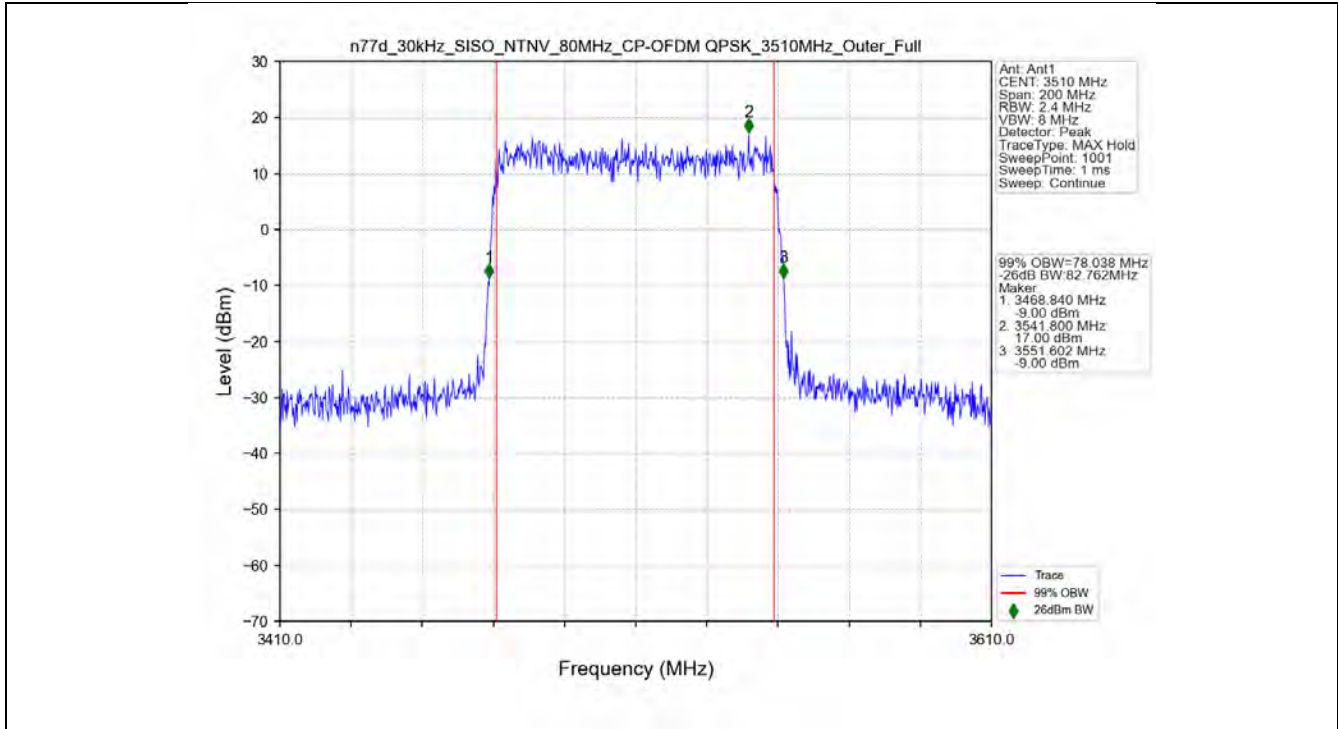


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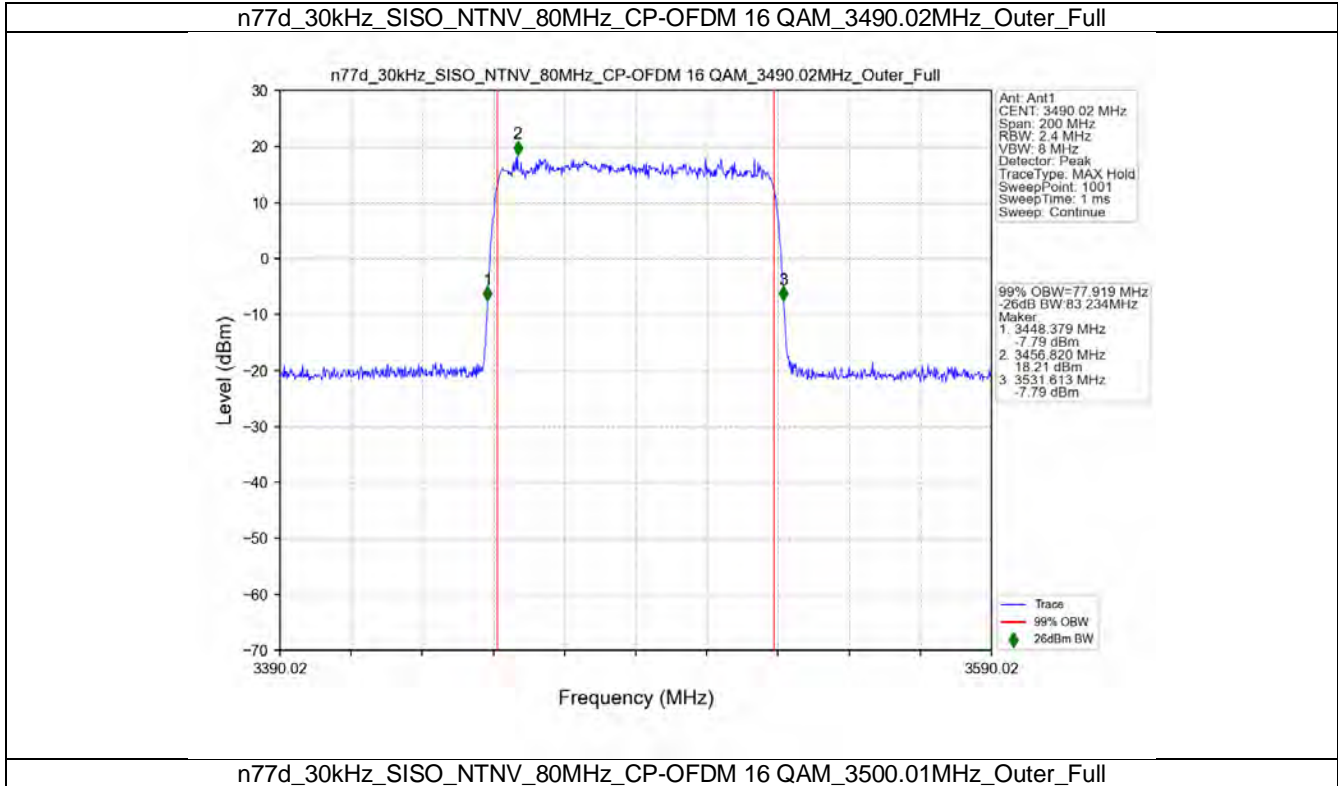


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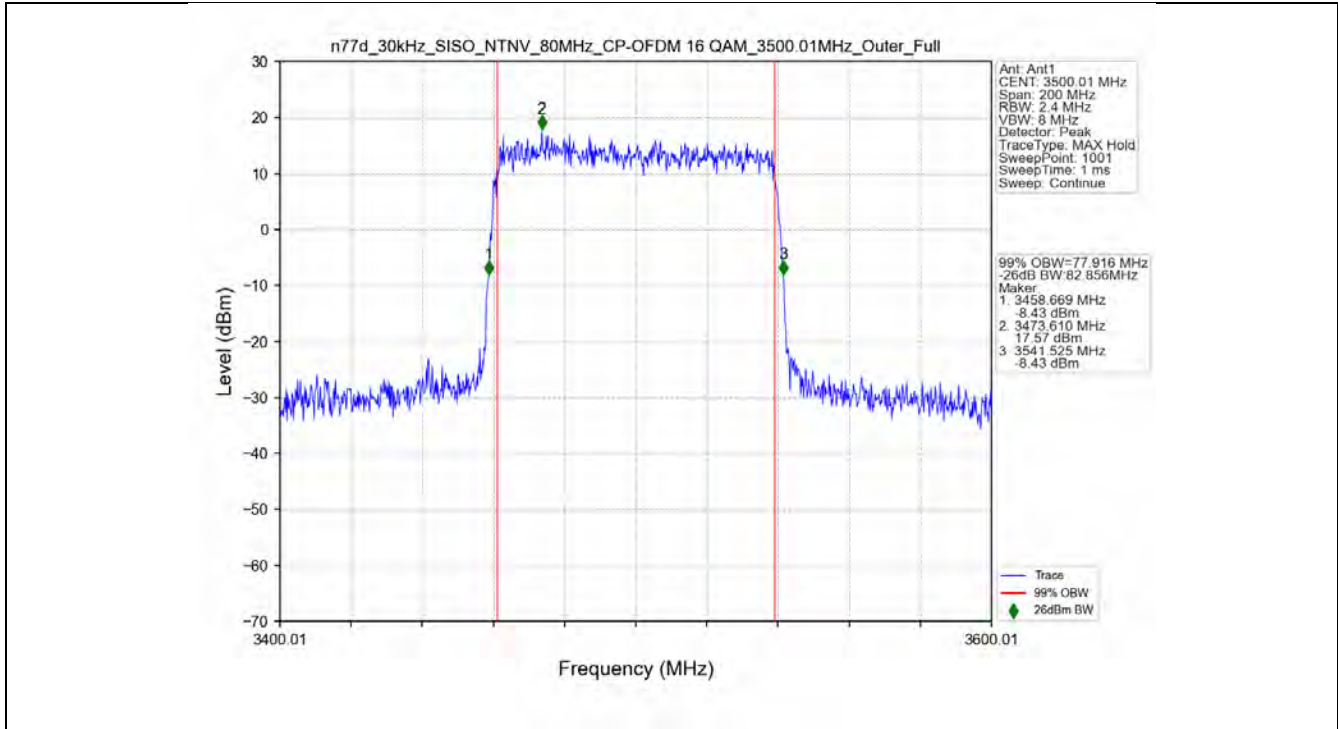


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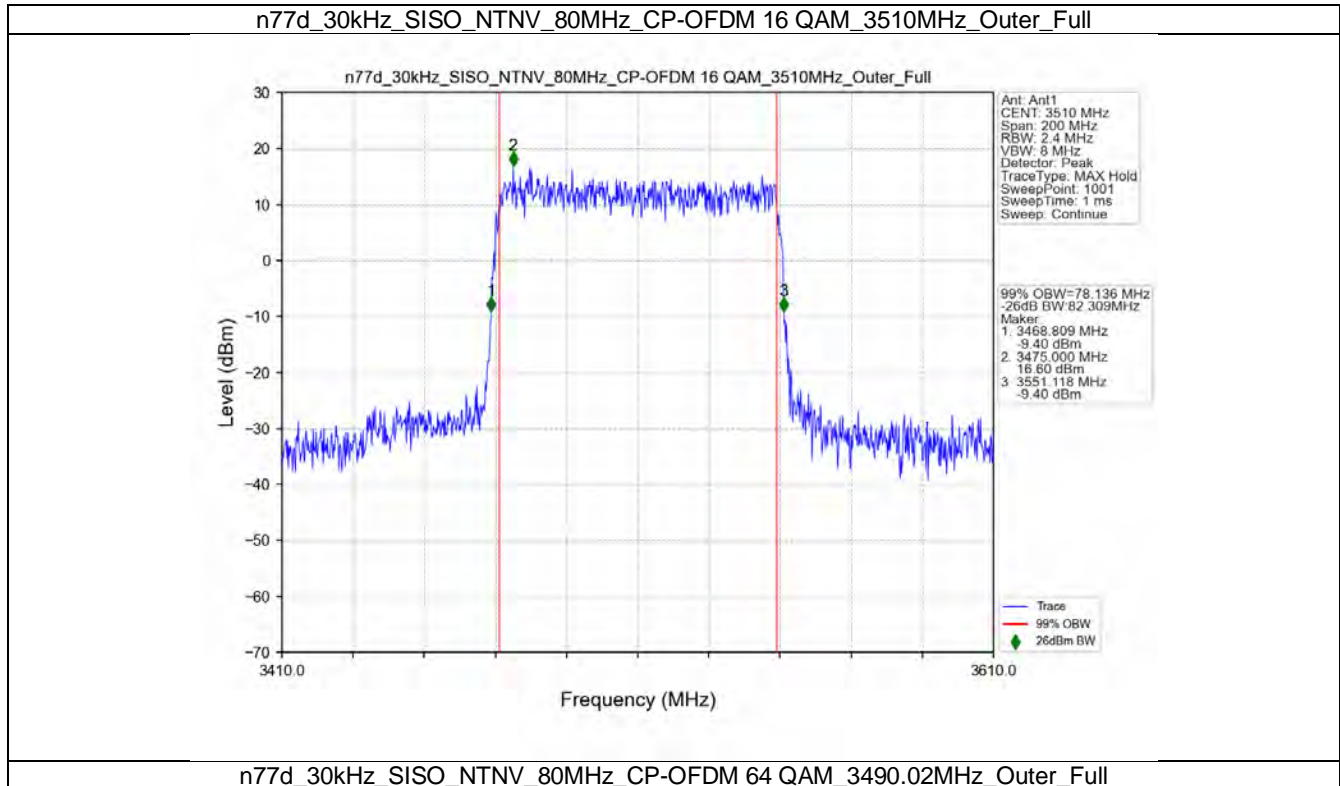


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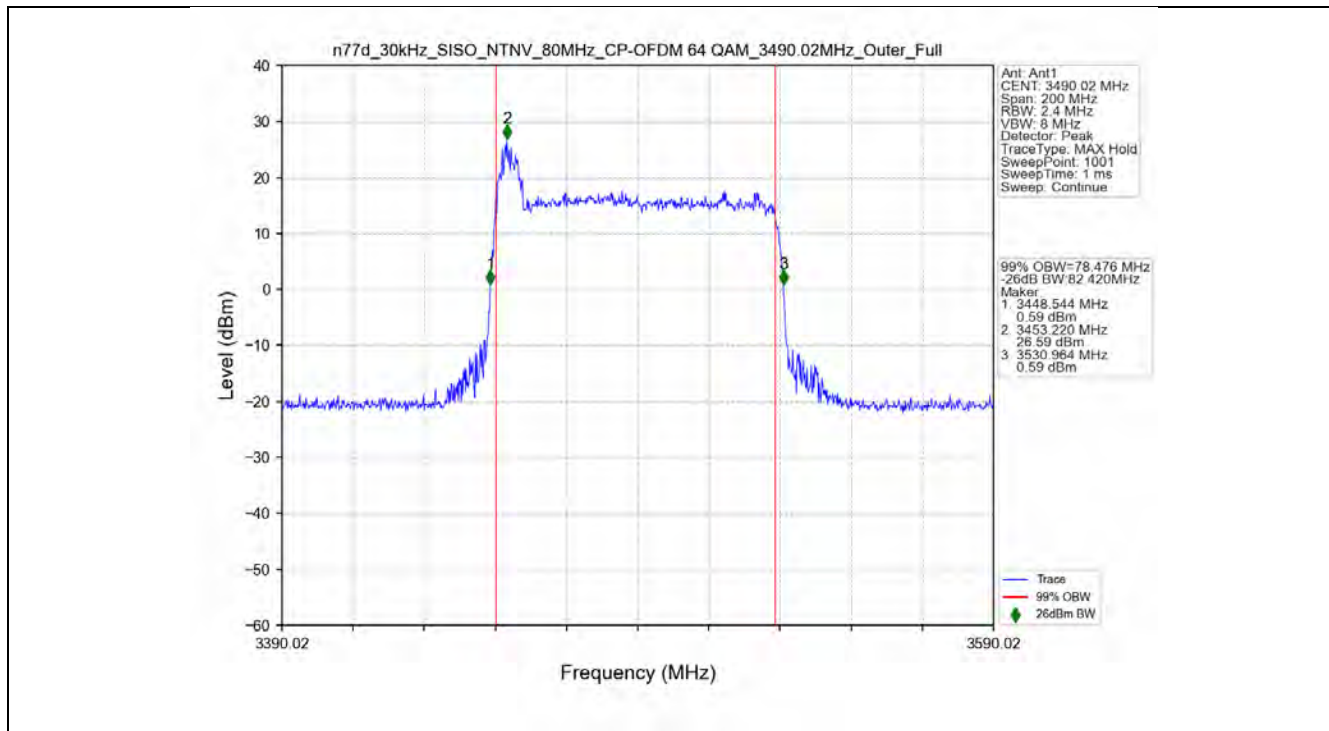
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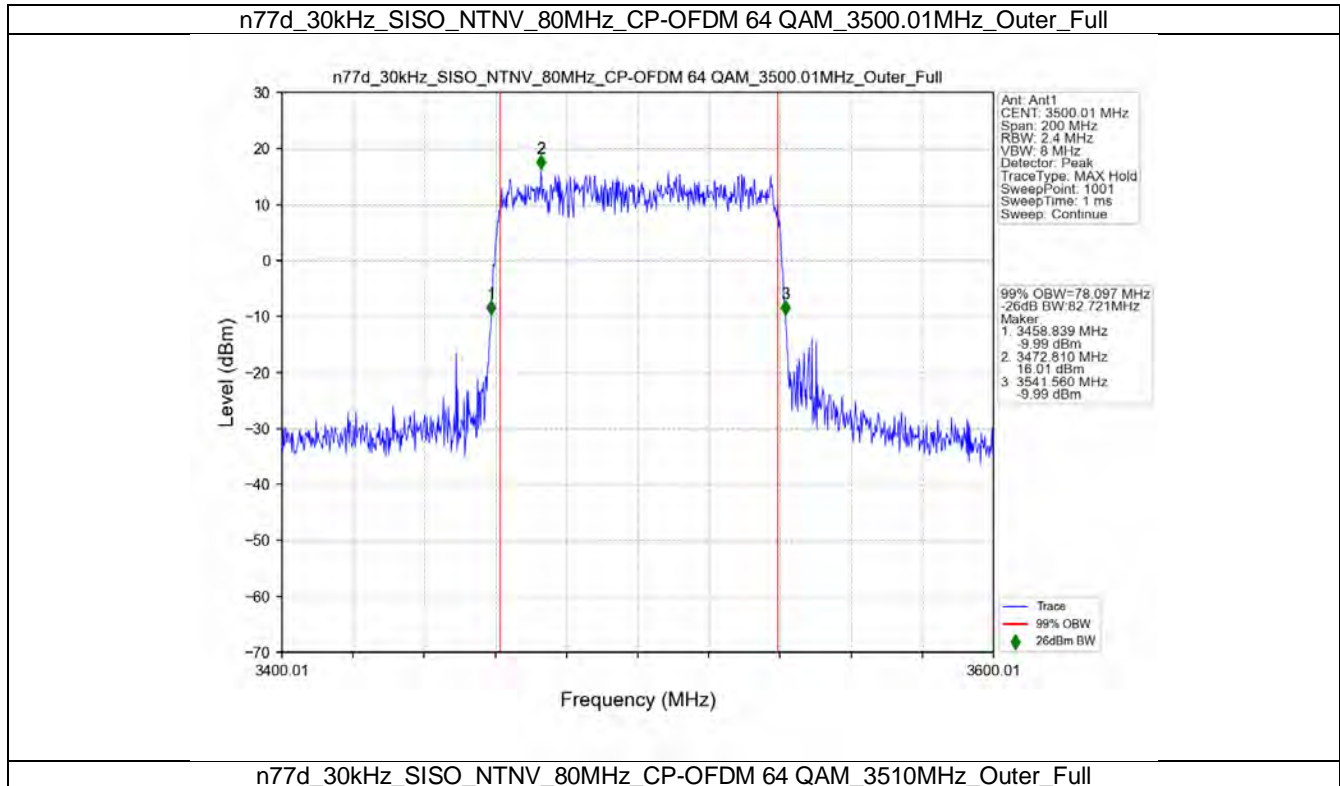


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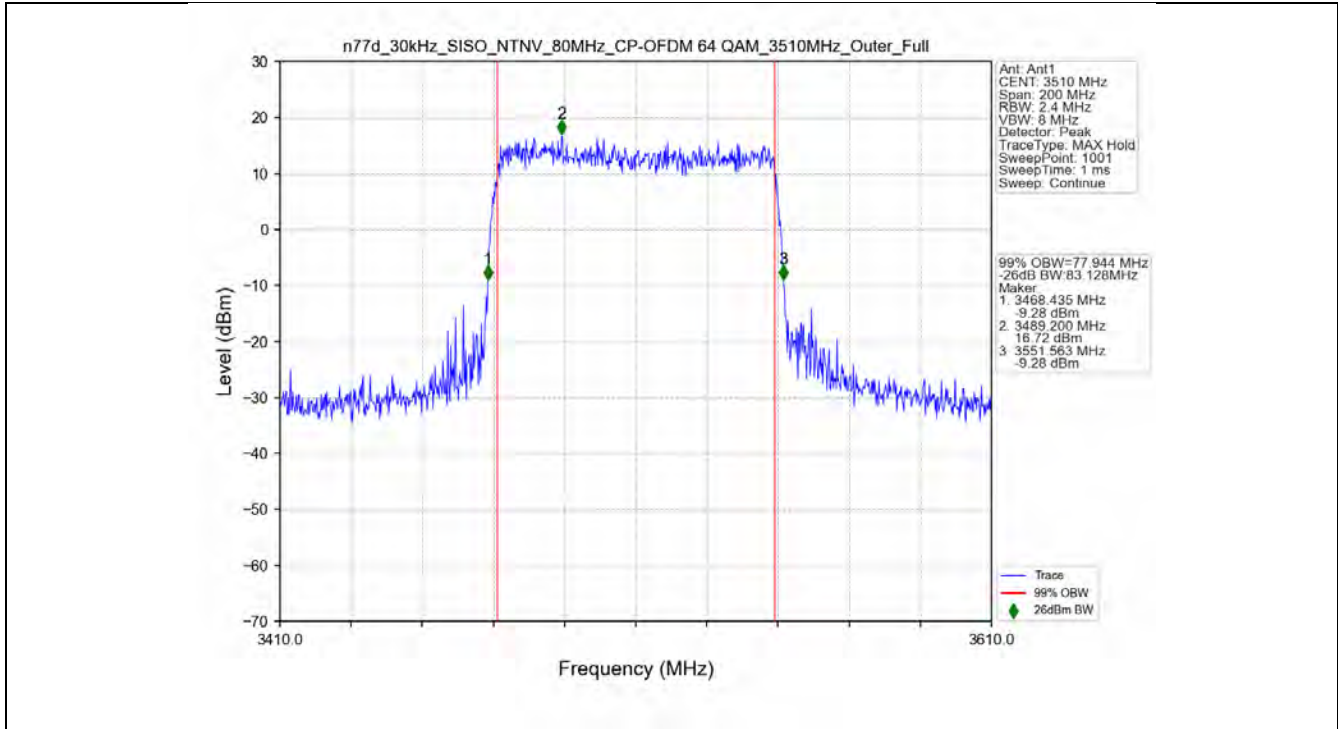


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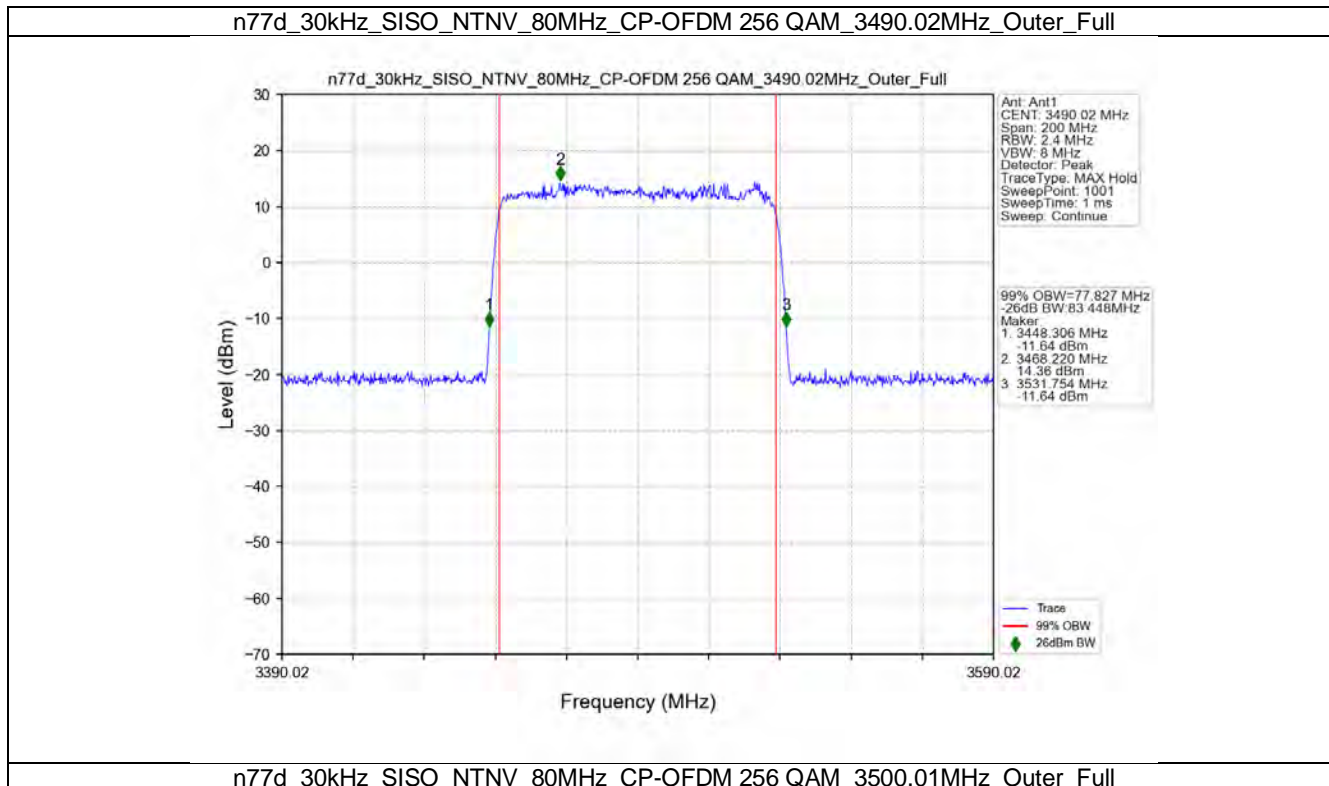
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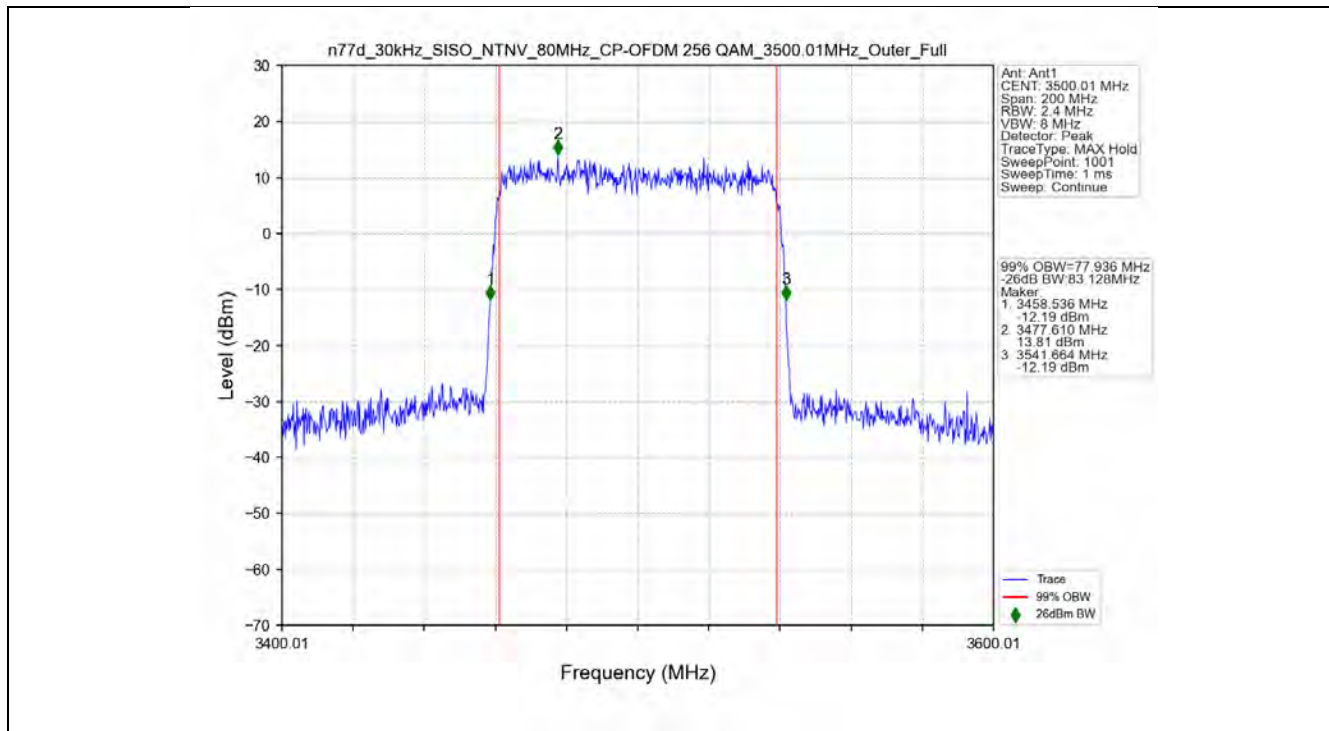
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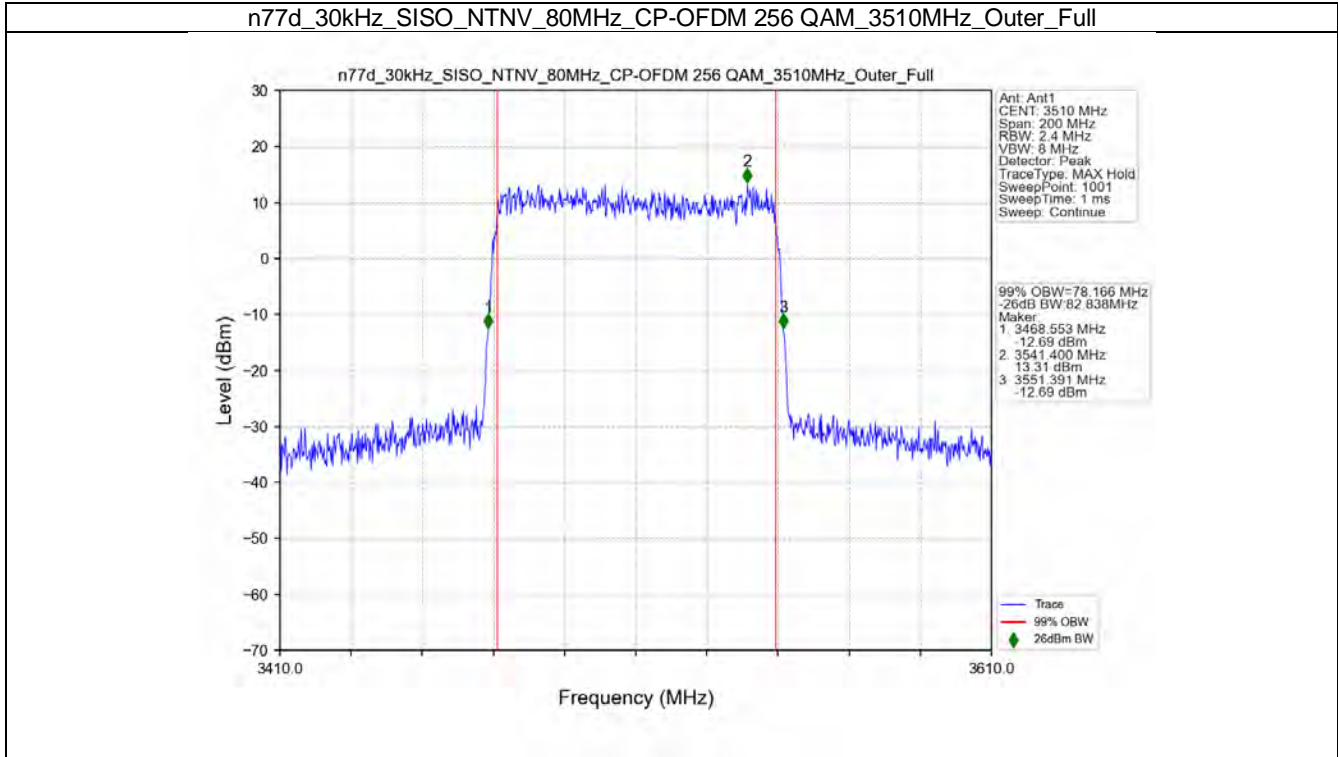


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## 3.6 30k\_SISO\_100MHz\_NTNV

### 3.6.1 Test Result

5G NR n77d SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	96.91	103.63	/	Pass
	3500.01	Outer_Full	96.88	103.28	/	Pass
	3499.98	Outer_Full	97.39	103.41	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	97.32	103.04	/	Pass
	3500.01	Outer_Full	96.80	103.44	/	Pass
	3499.98	Outer_Full	96.83	103.27	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	98.29	102.82	/	Pass
	3500.01	Outer_Full	96.89	102.88	/	Pass
	3499.98	Outer_Full	97.12	103.39	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	96.98	103.25	/	Pass
	3500.01	Outer_Full	96.92	103.33	/	Pass
	3499.98	Outer_Full	96.76	103.41	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	97.22	103.54	/	Pass
	3500.01	Outer_Full	96.77	103.17	/	Pass
	3499.98	Outer_Full	96.93	103.21	/	Pass
CP-OFDM QPSK	3500.01	Outer_Full	97.82	104.58	/	Pass
	3500.01	Outer_Full	98.12	104.14	/	Pass
	3499.98	Outer_Full	97.88	104.81	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	97.70	104.02	/	Pass
	3500.01	Outer_Full	97.70	103.95	/	Pass
	3499.98	Outer_Full	98.13	103.91	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	97.92	104.45	/	Pass
	3500.01	Outer_Full	97.51	104.31	/	Pass
	3499.98	Outer_Full	98.27	105.01	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	97.76	104.26	/	Pass
	3500.01	Outer_Full	98.05	104.37	/	Pass
	3499.98	Outer_Full	98.09	103.92	/	Pass



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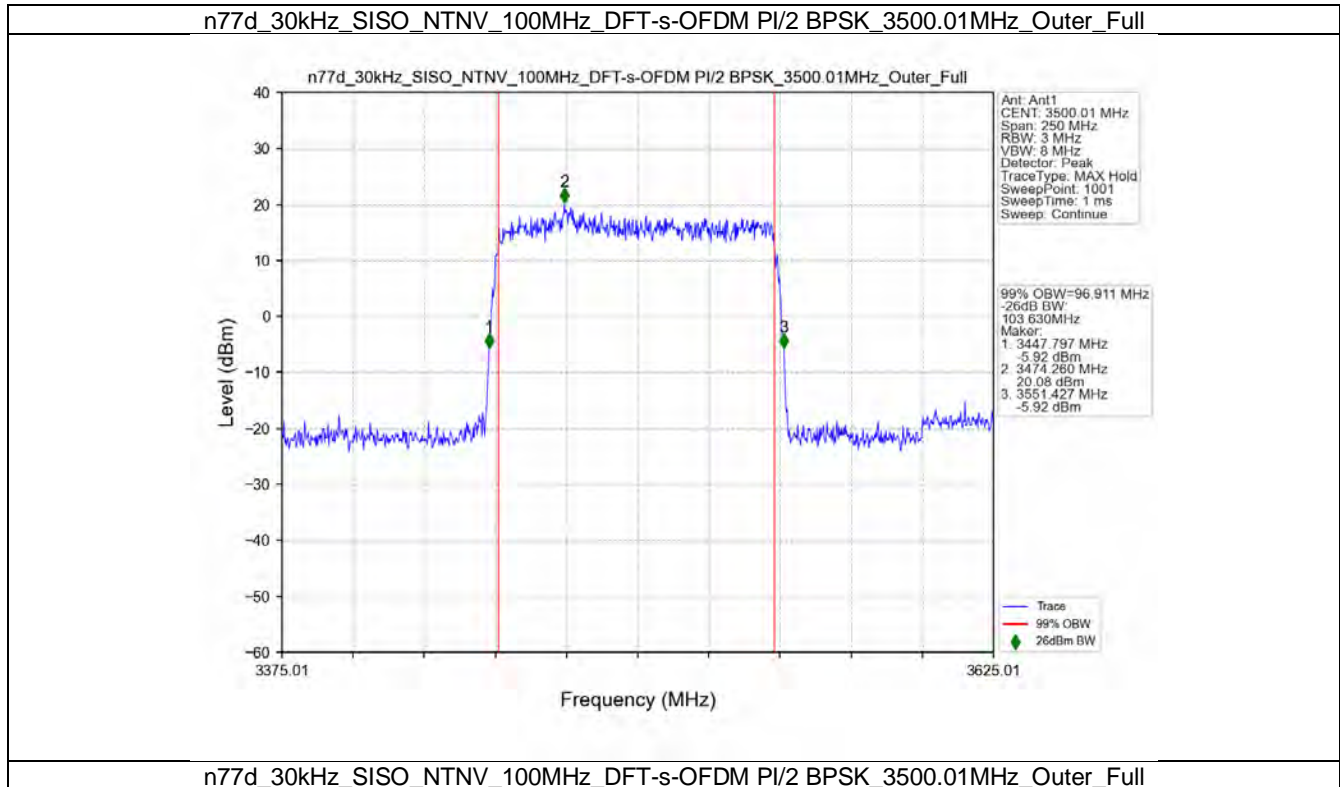
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3.6.2 Test Graph



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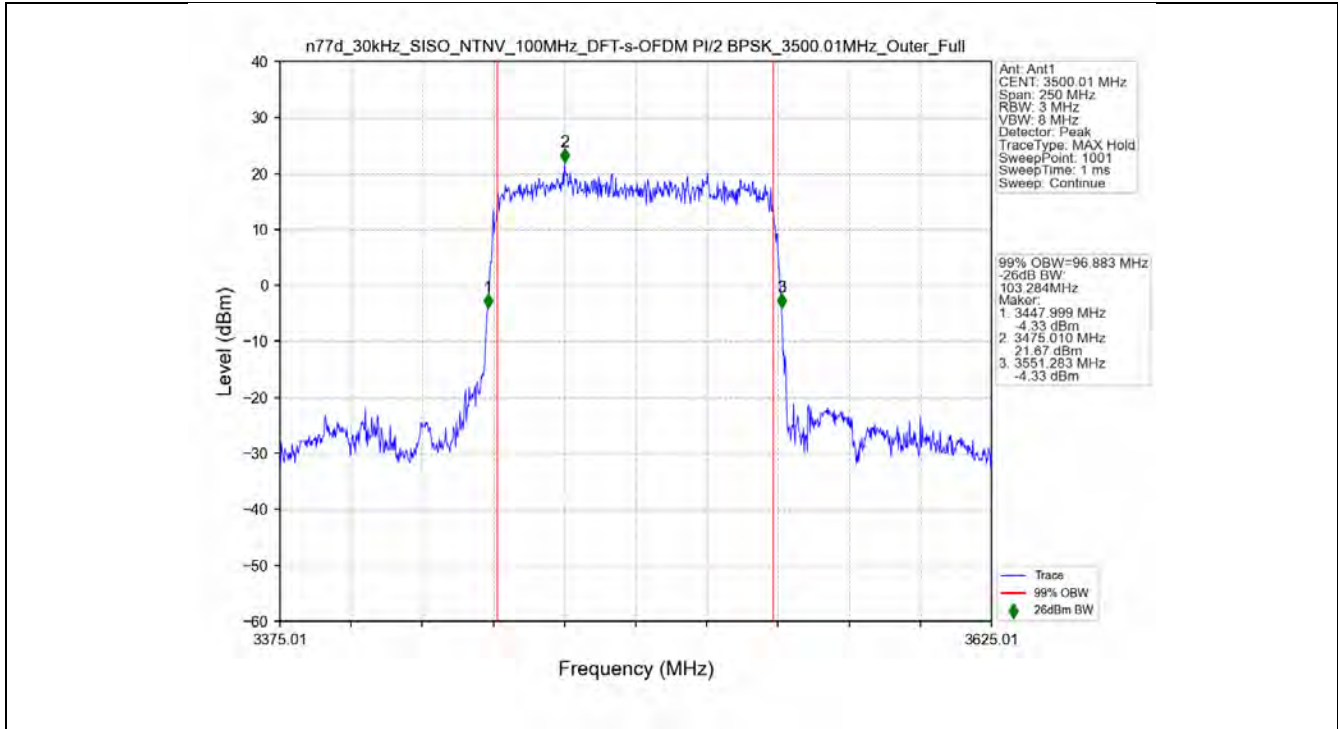


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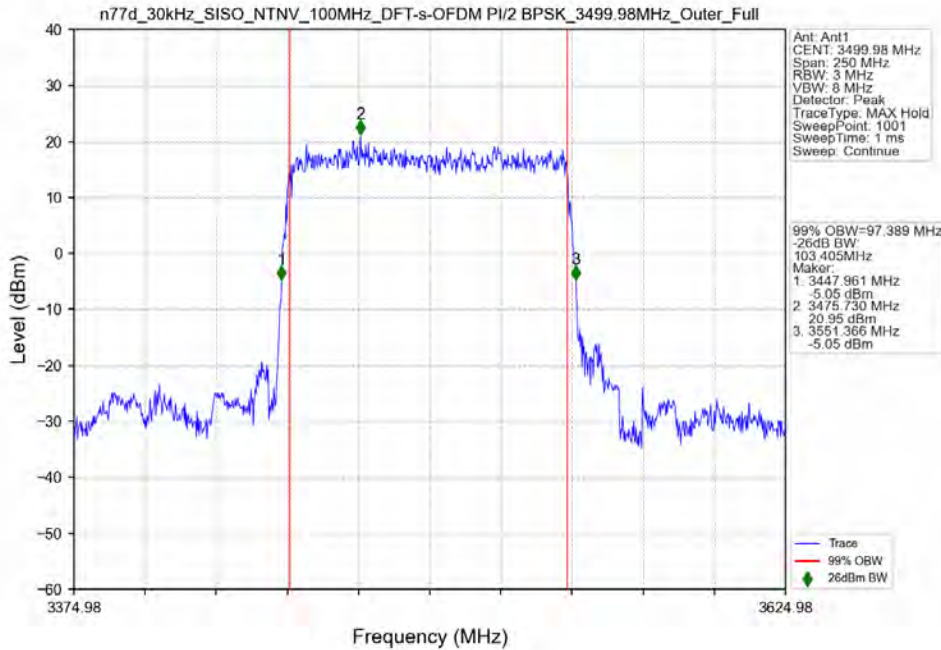
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n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM QPSK\_3500.01MHz\_Outer\_Full



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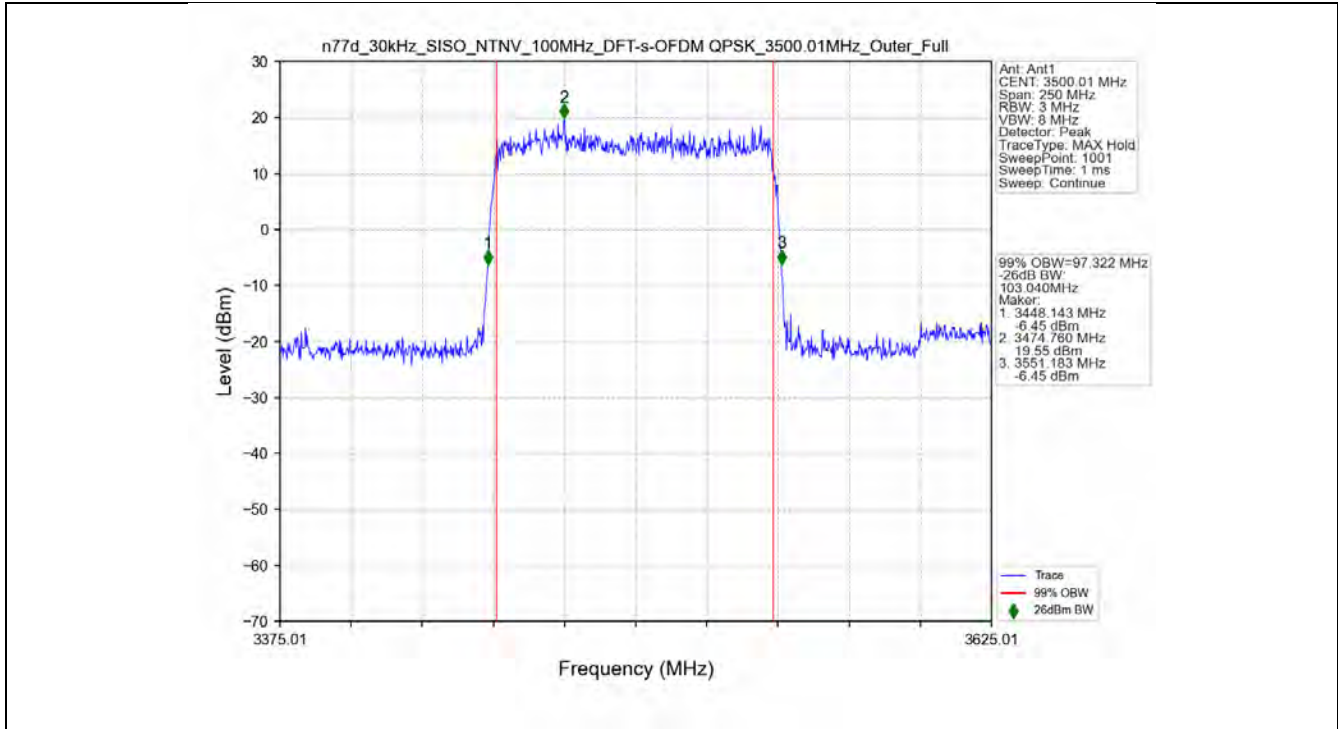


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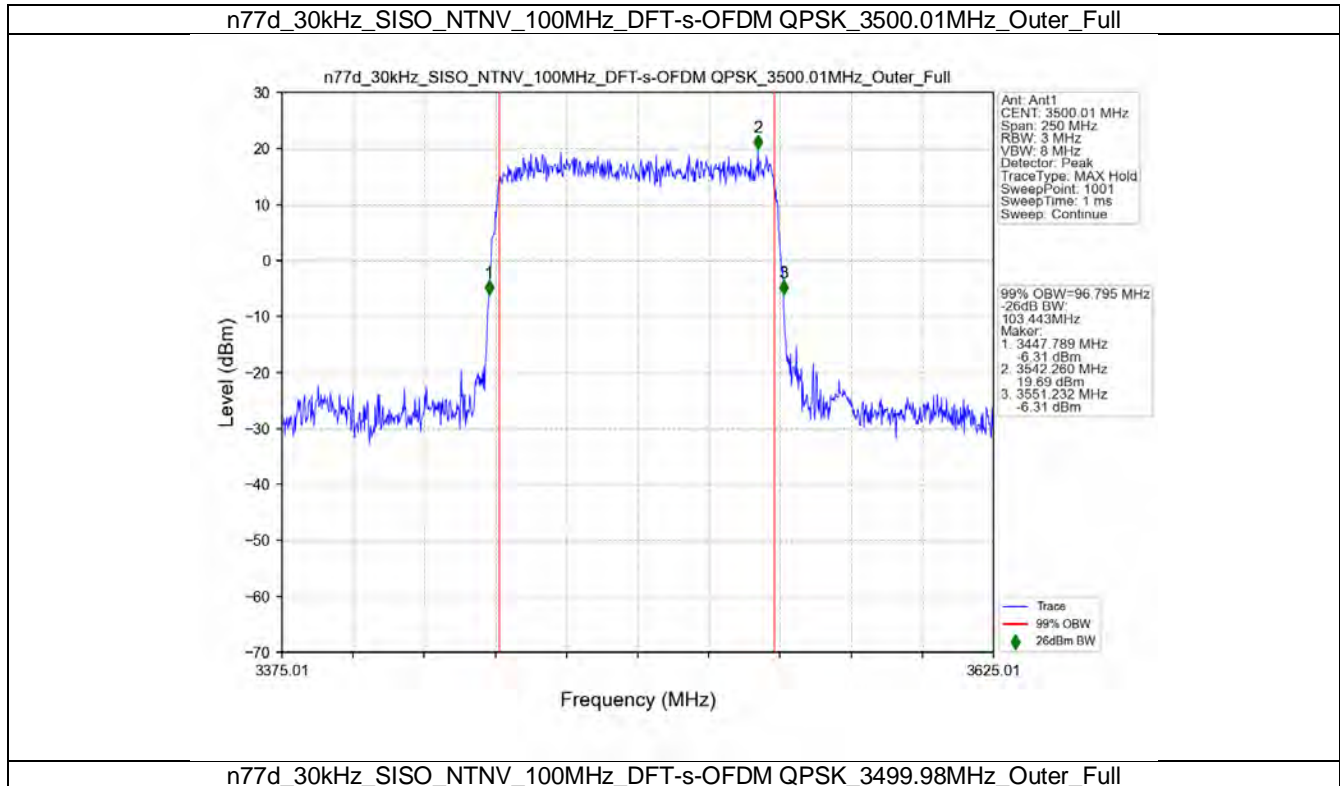


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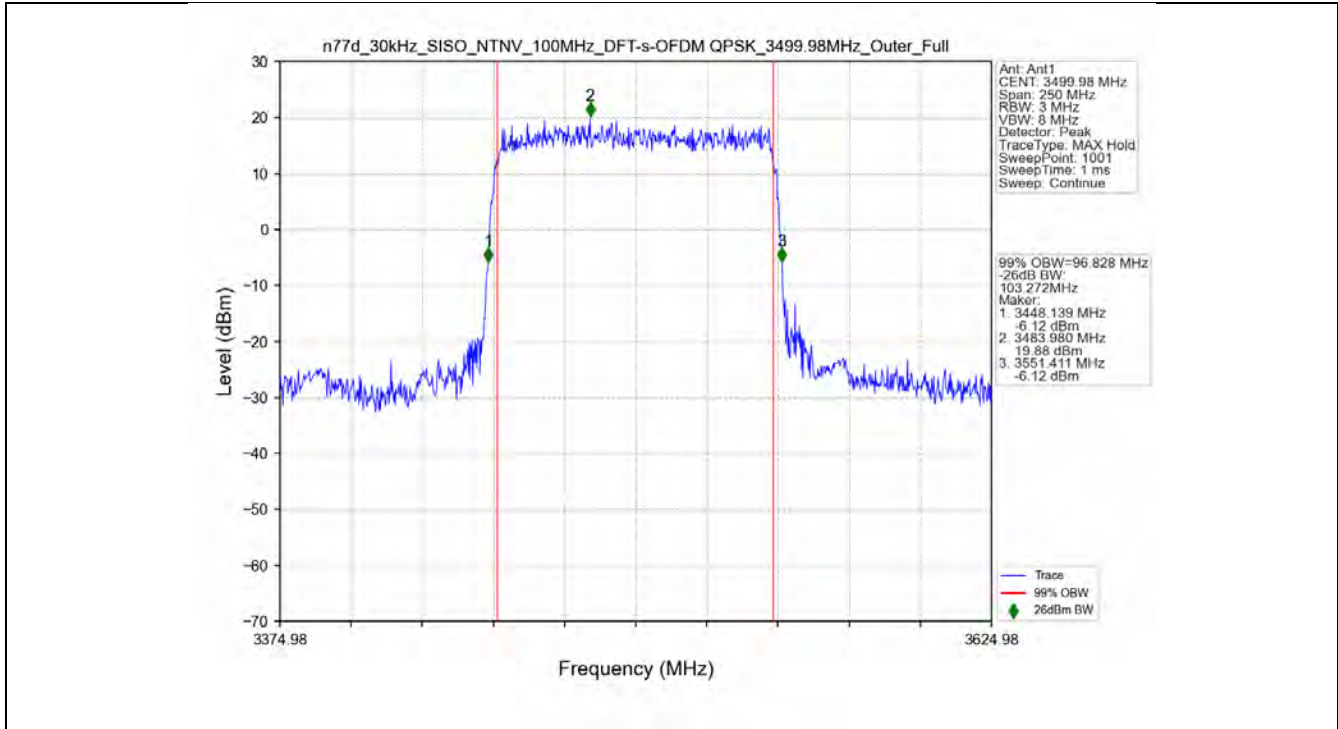


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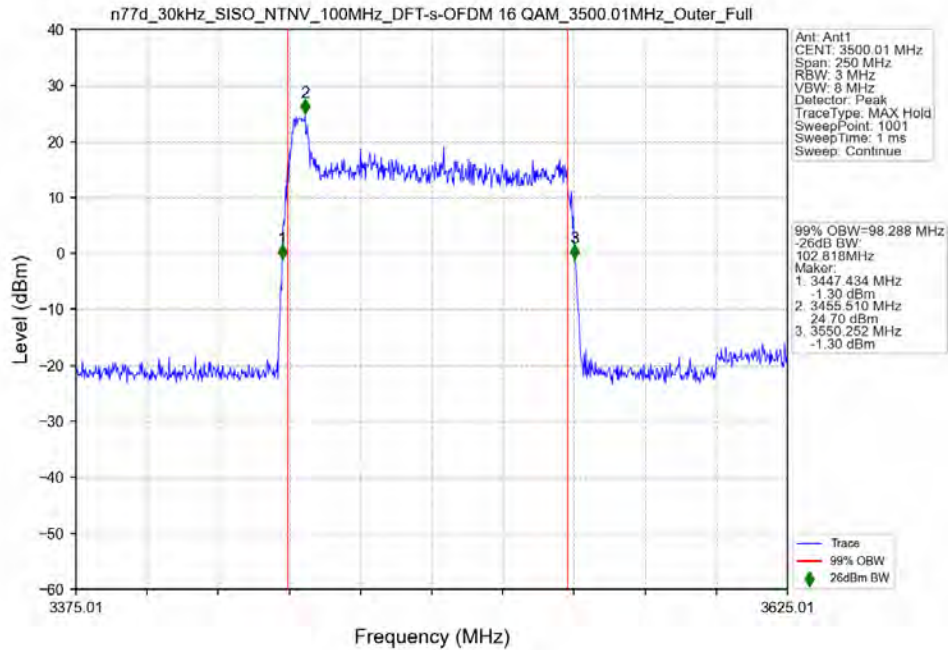
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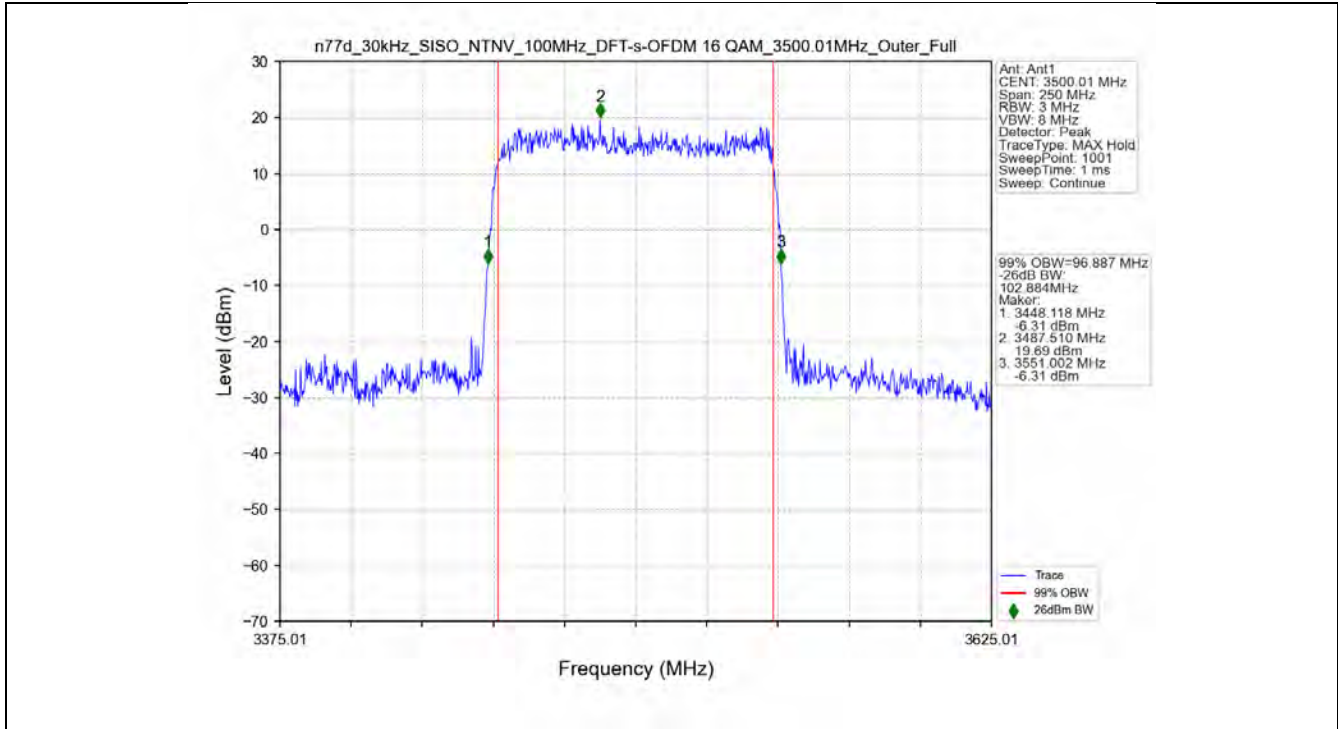


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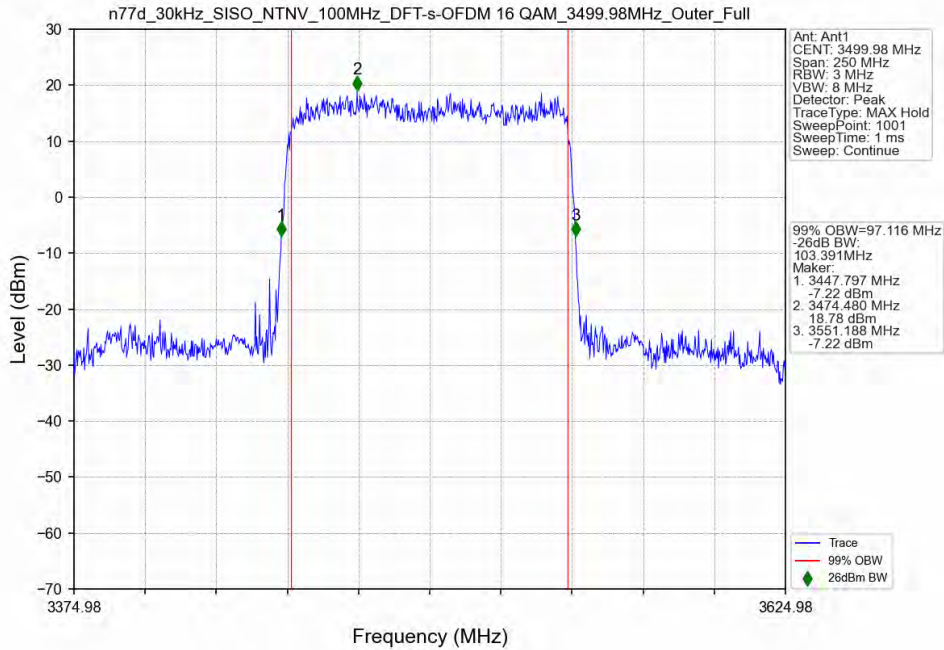
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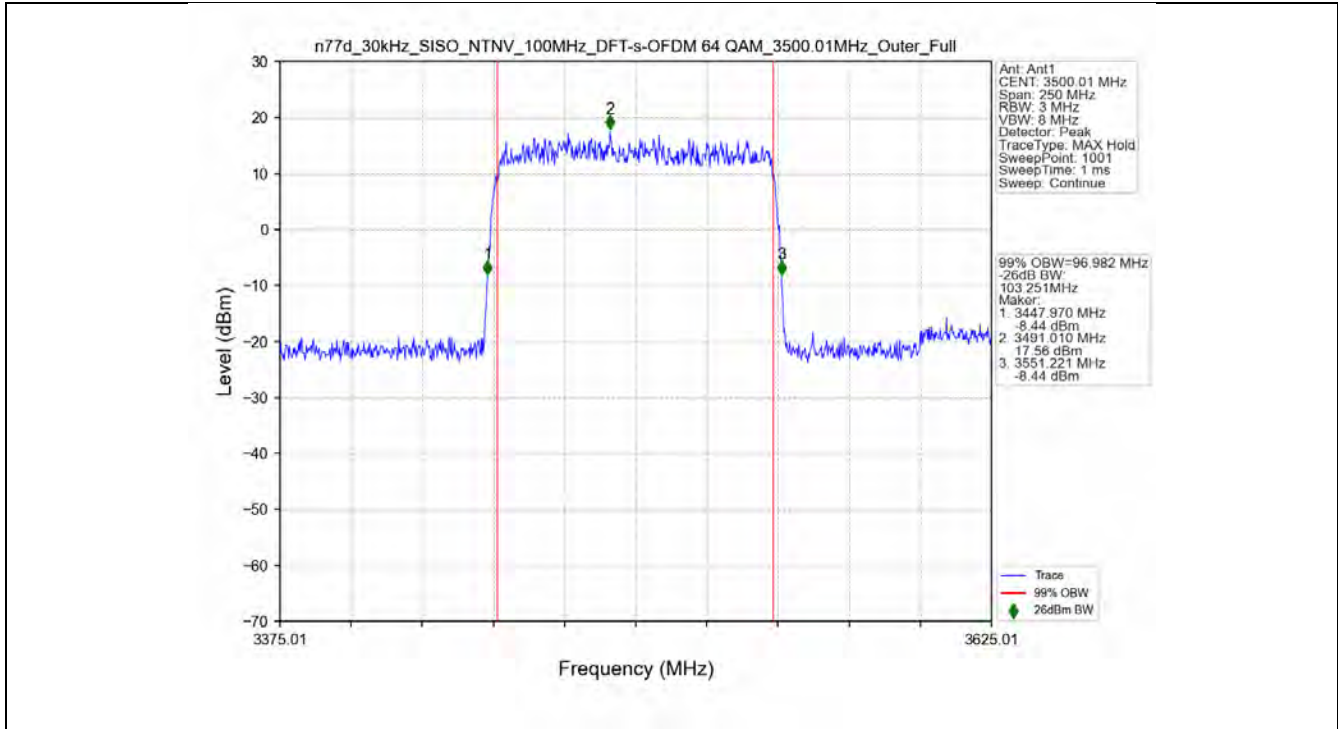


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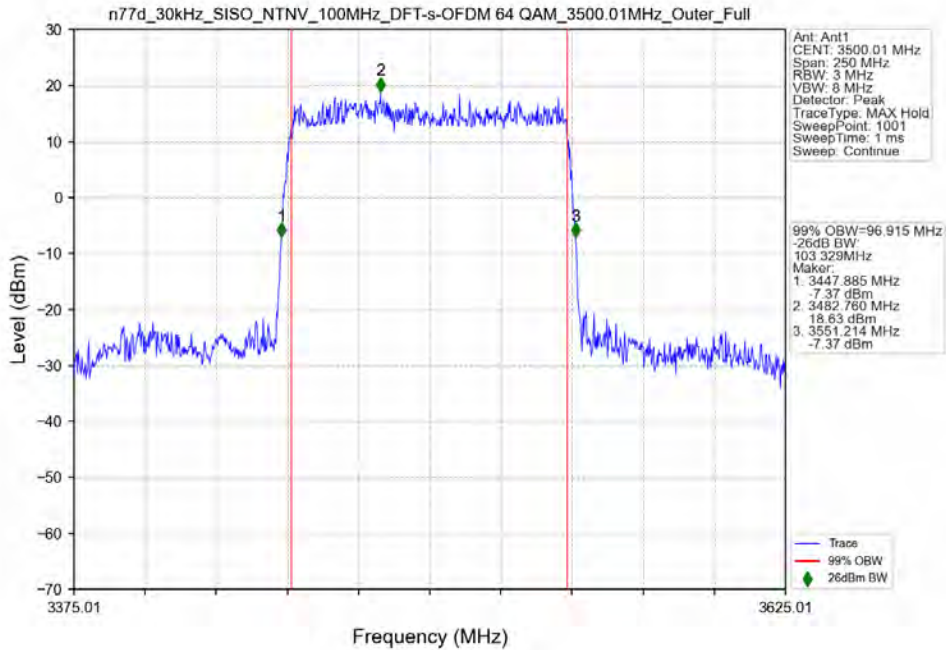
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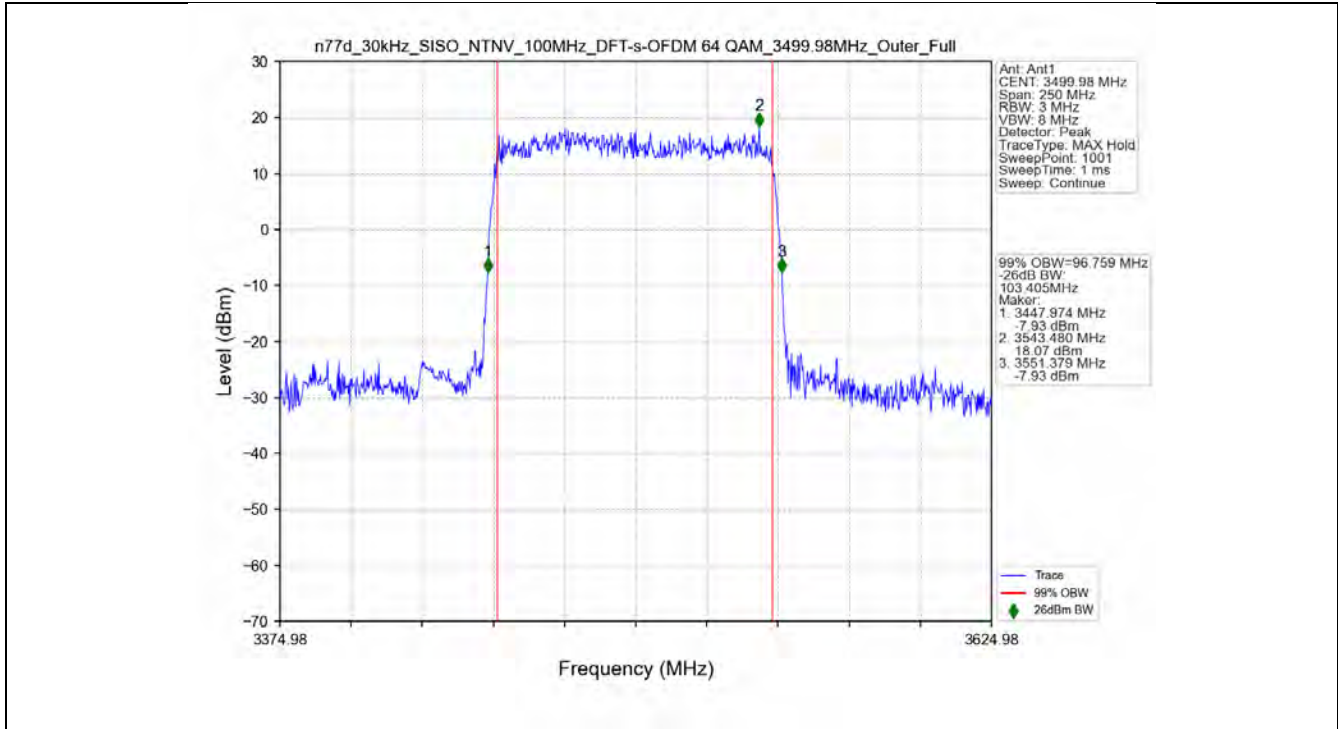


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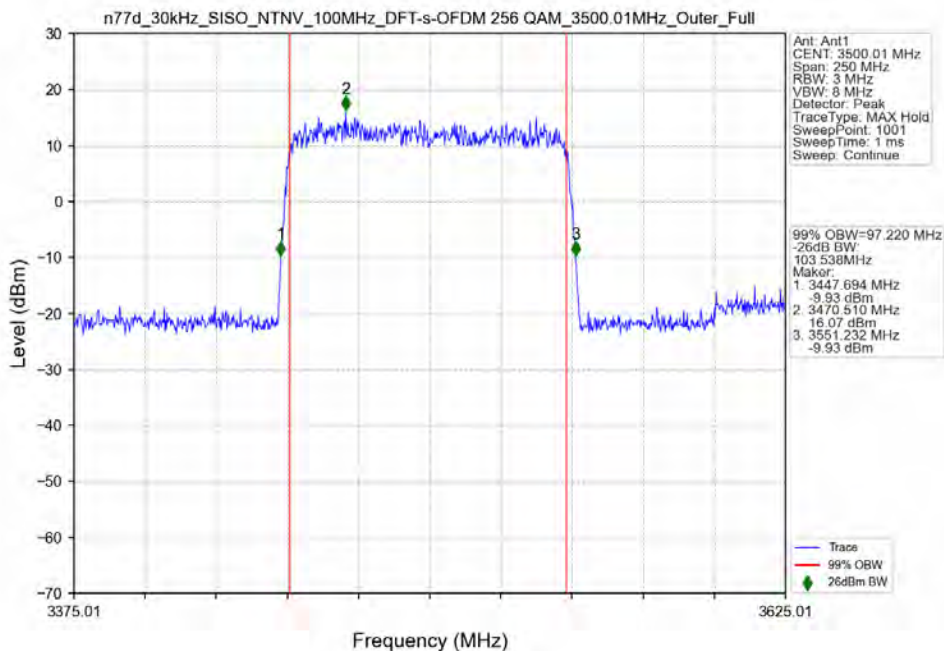
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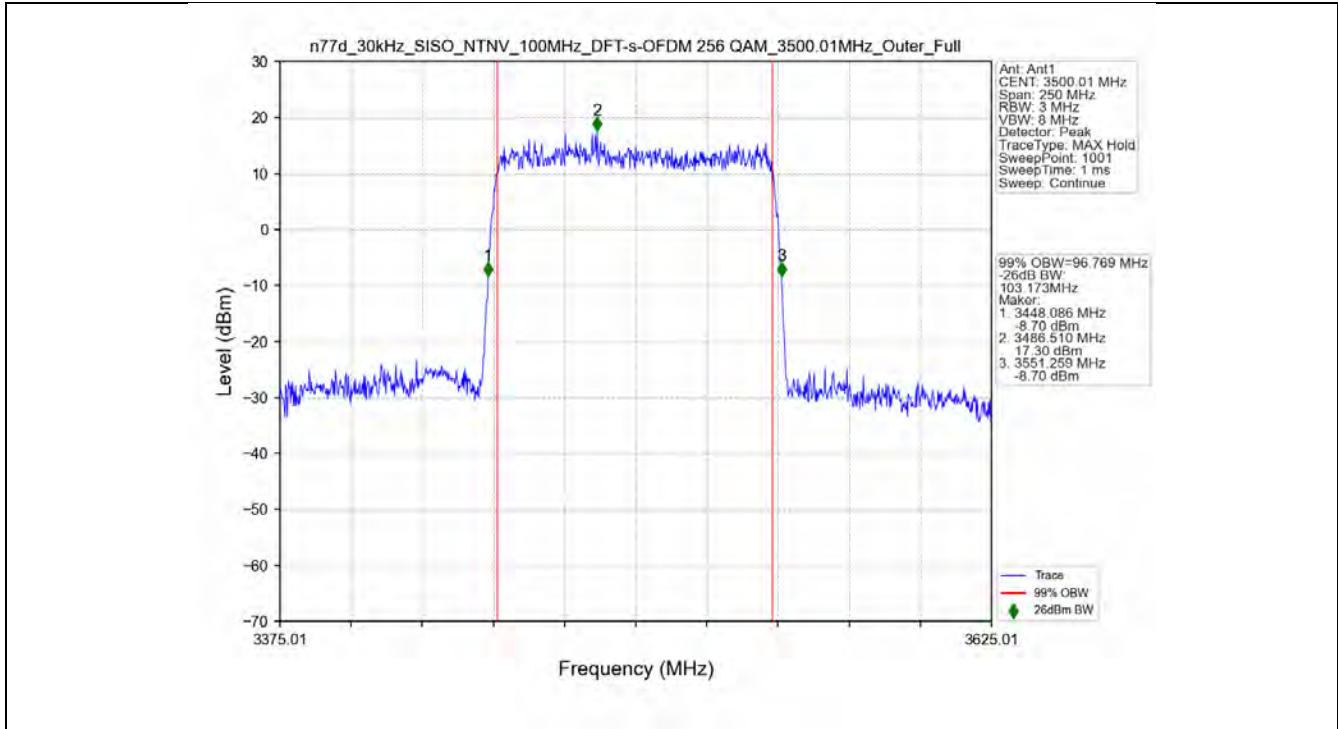


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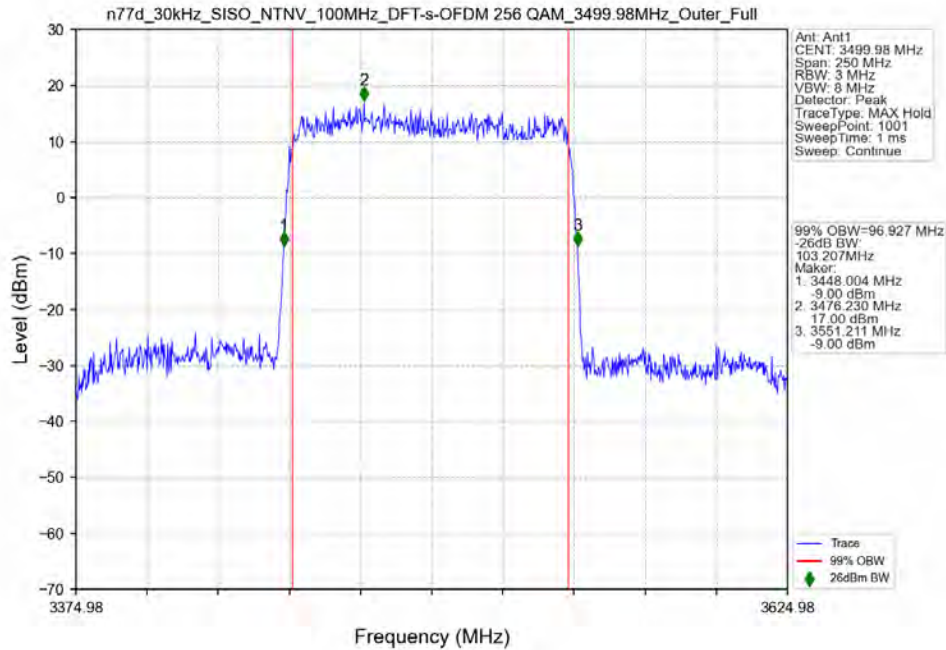
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n77d\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM 256 QAM\_3499.98MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM QPSK\_3500.01MHz\_Outer\_Full



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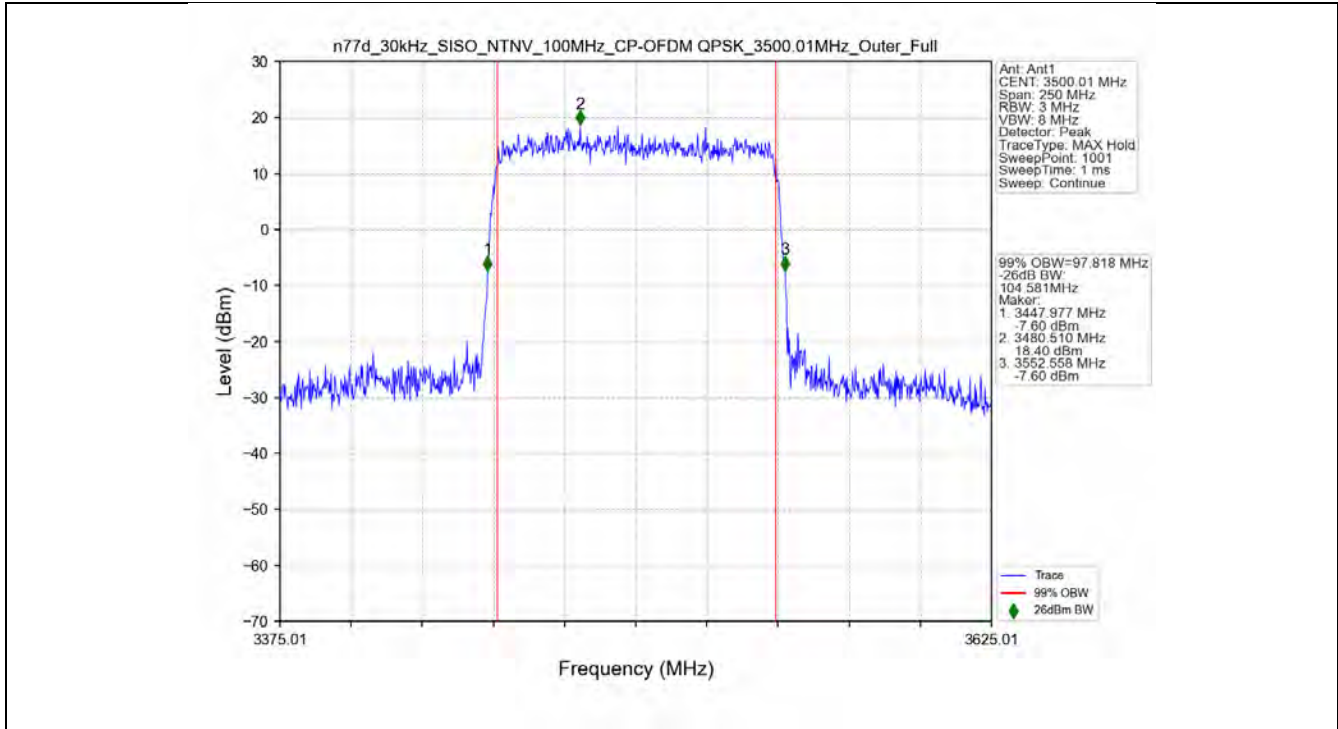


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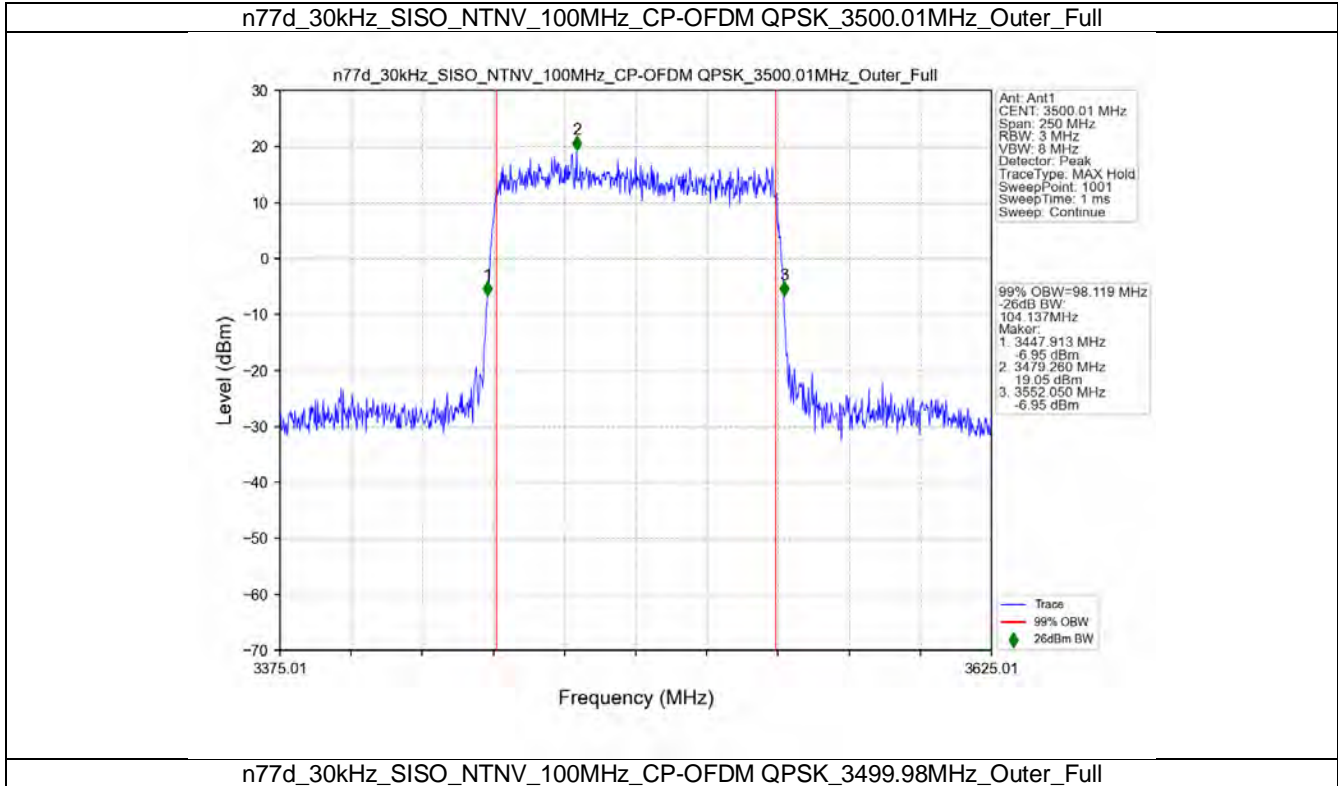


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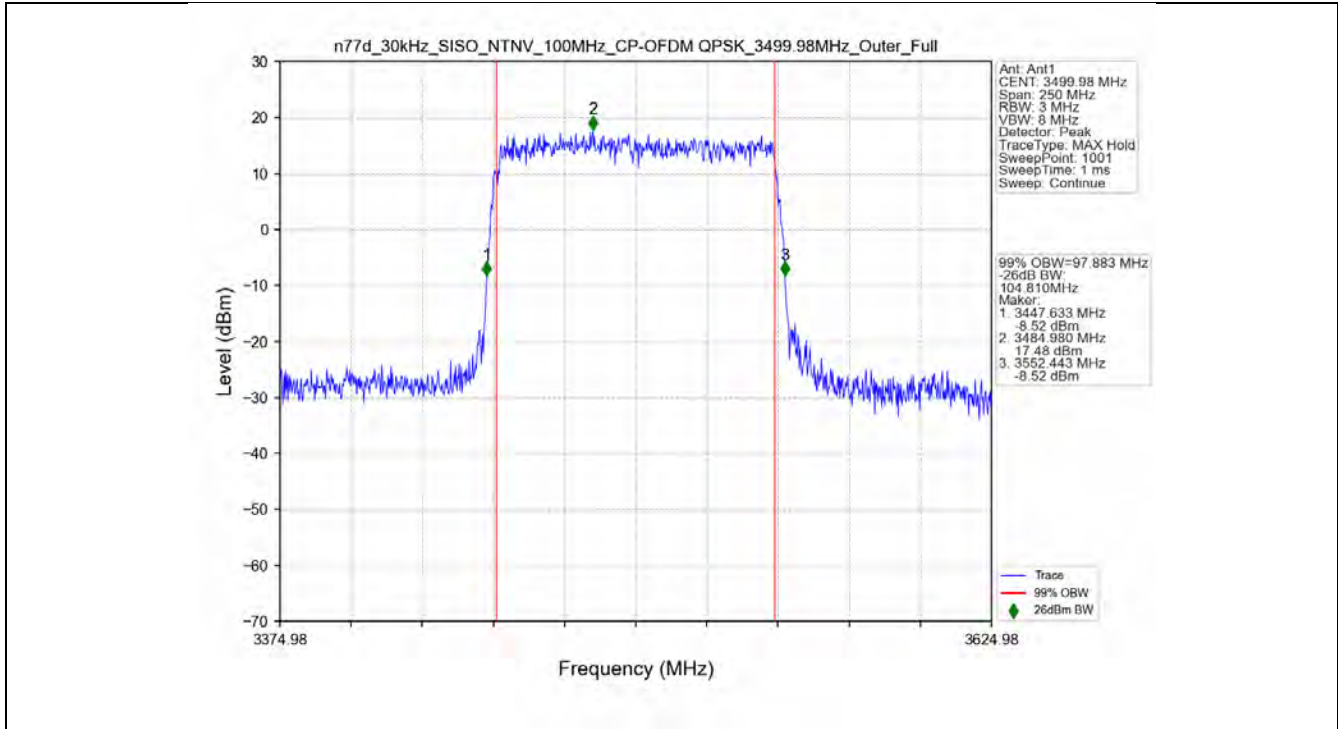


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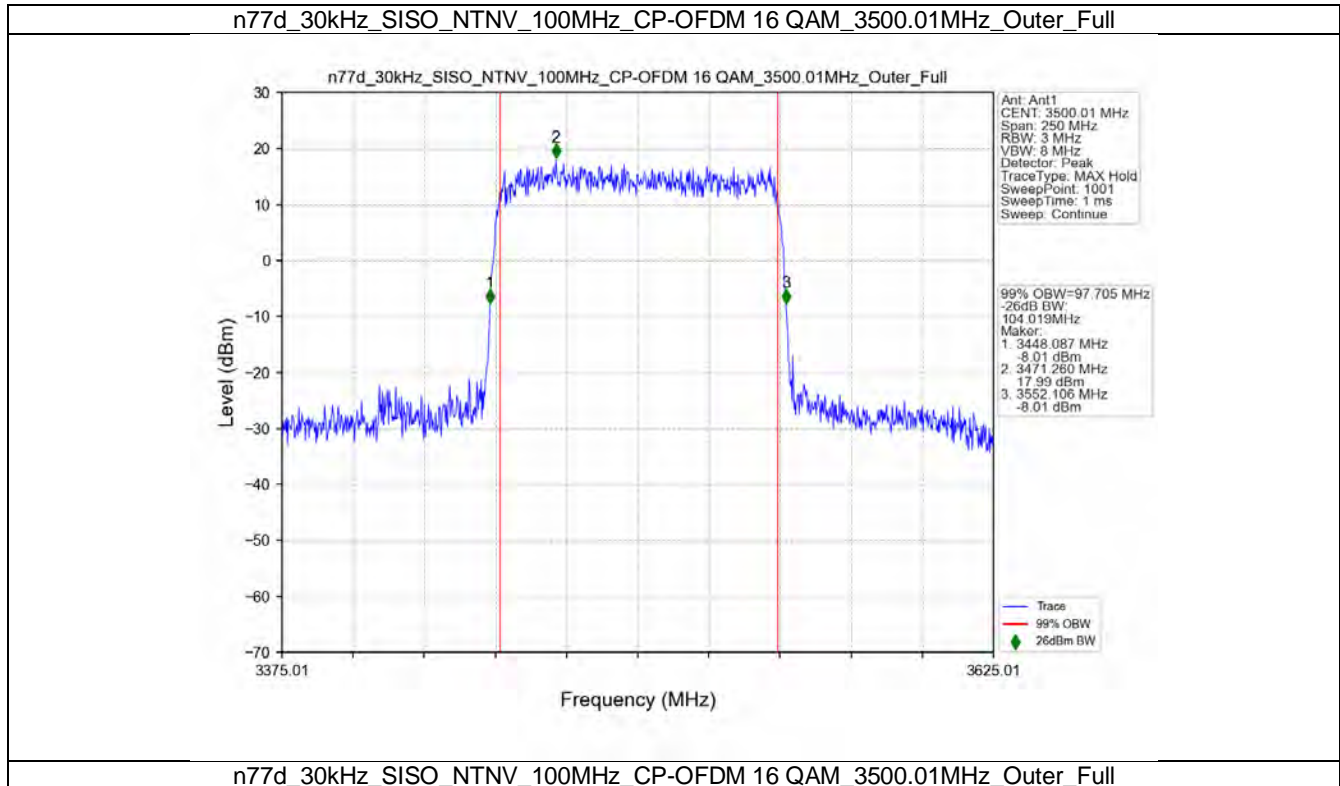


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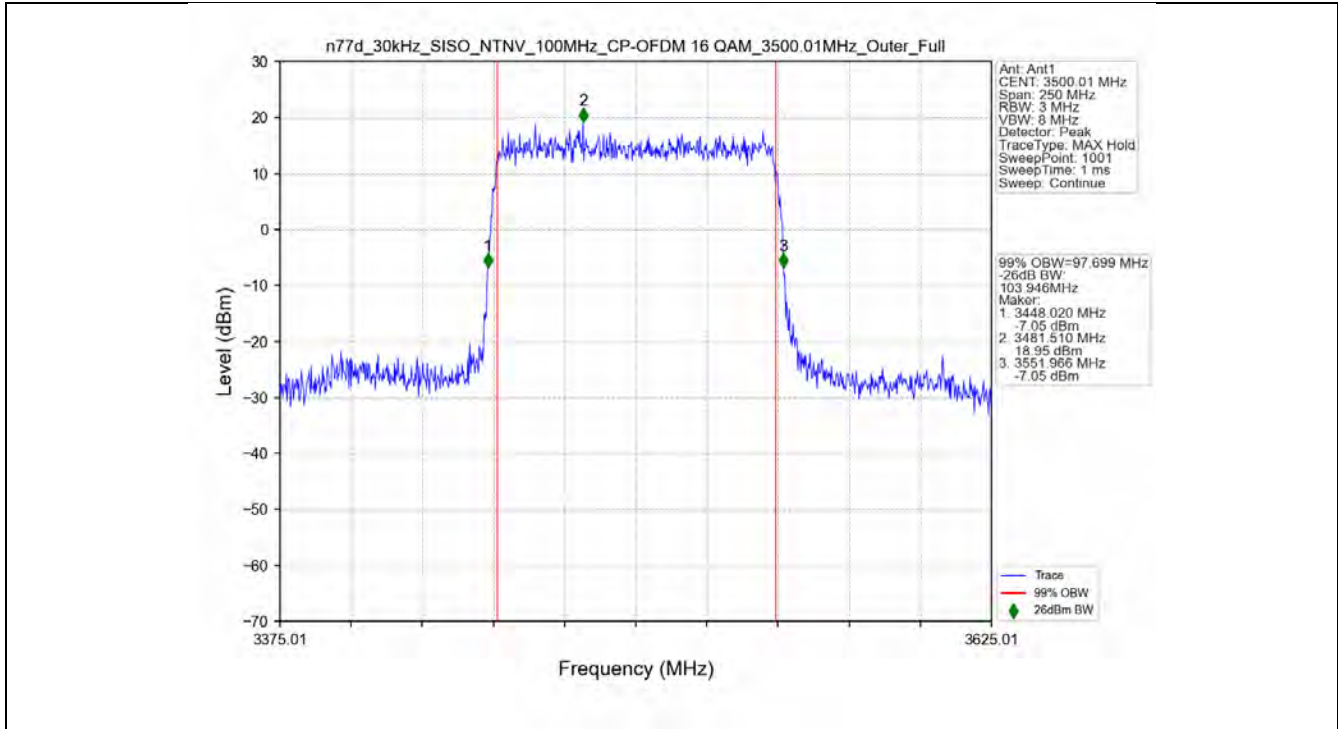


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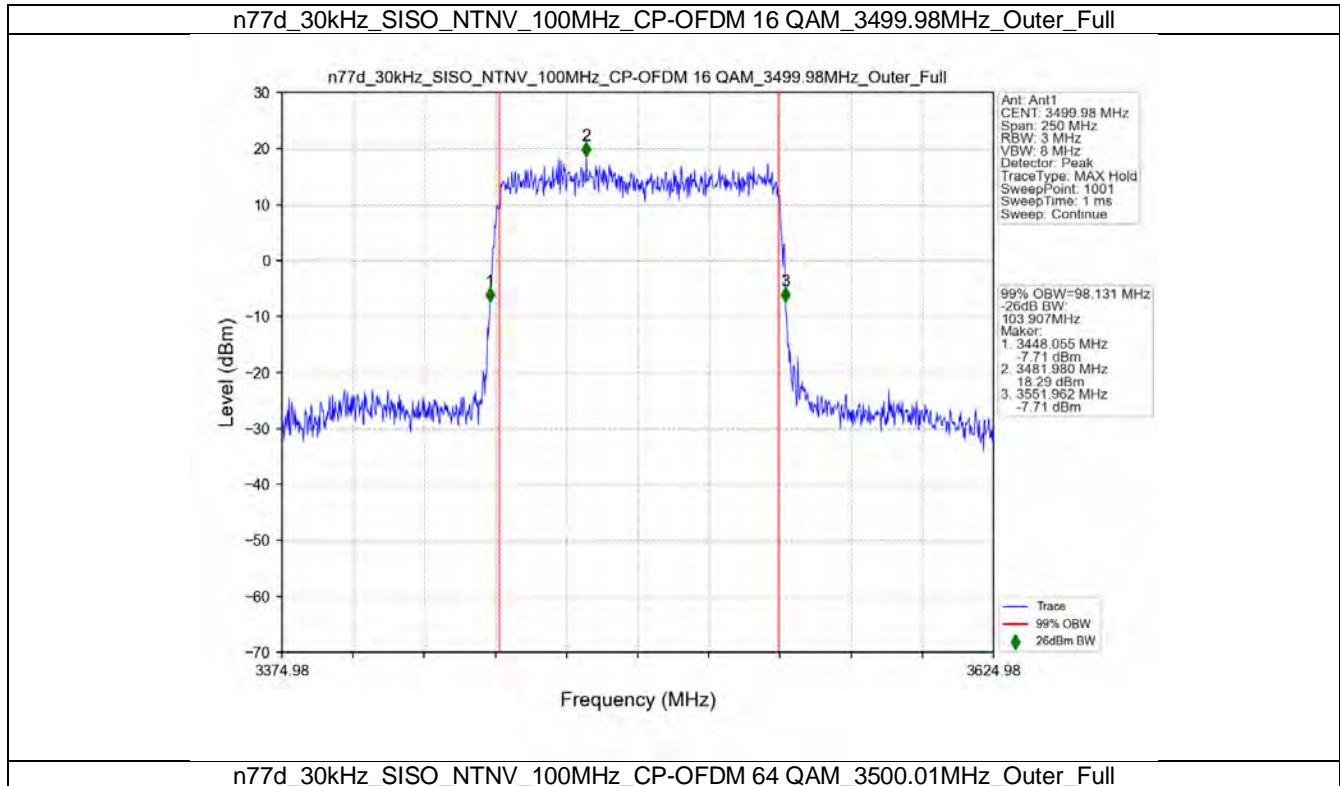


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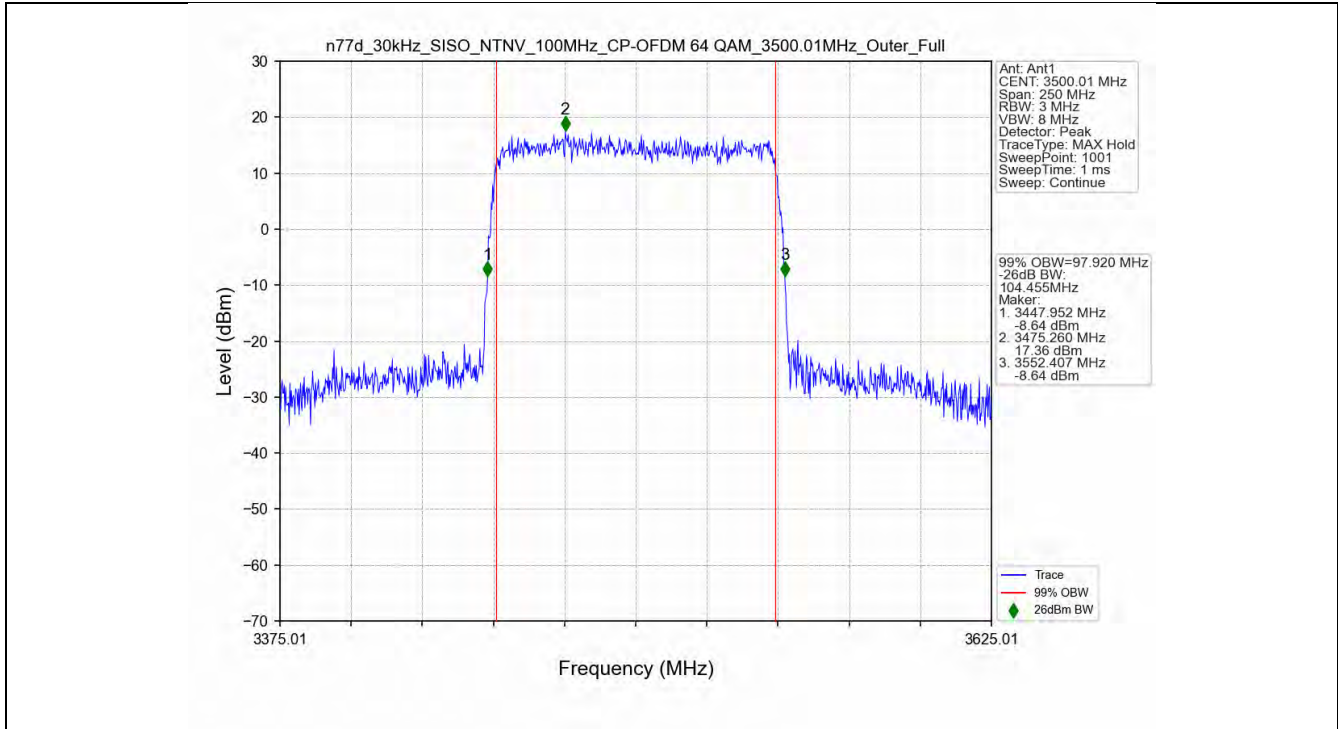


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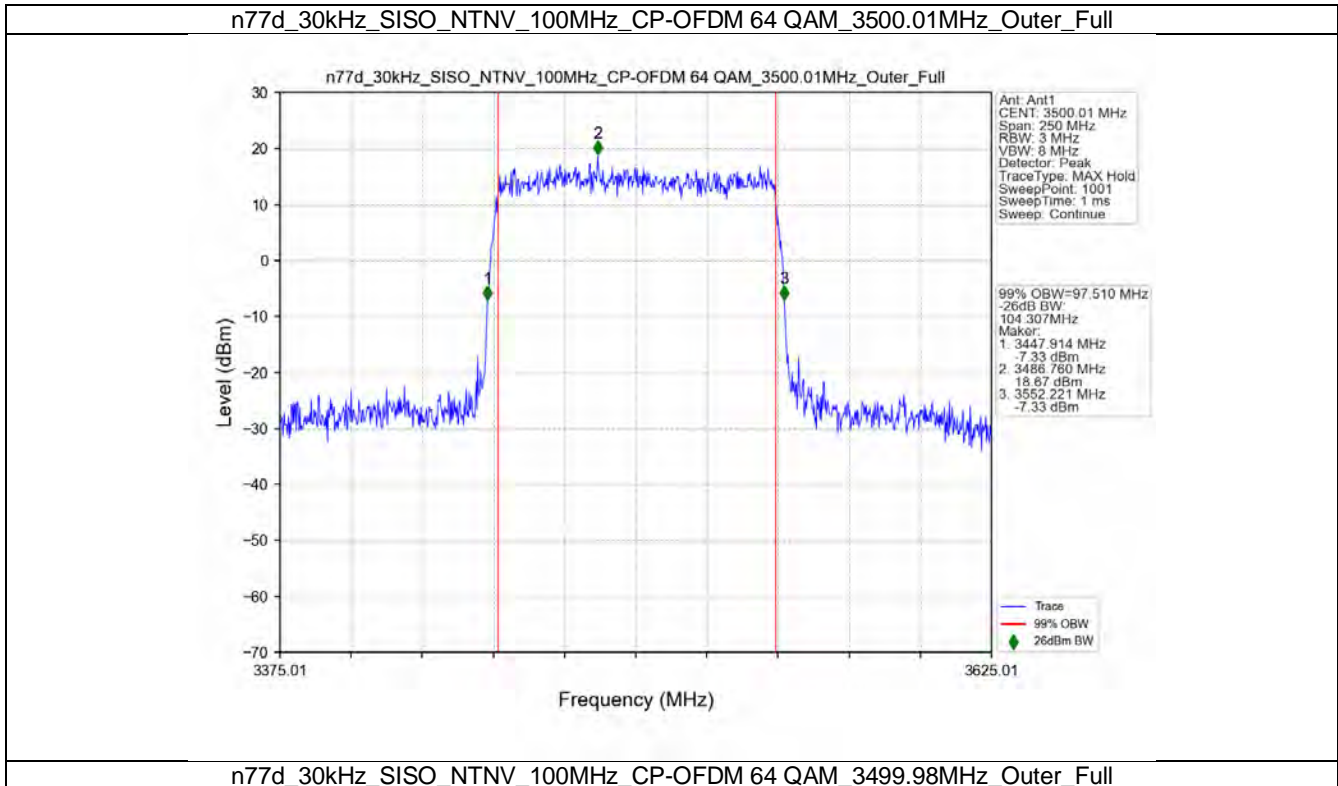


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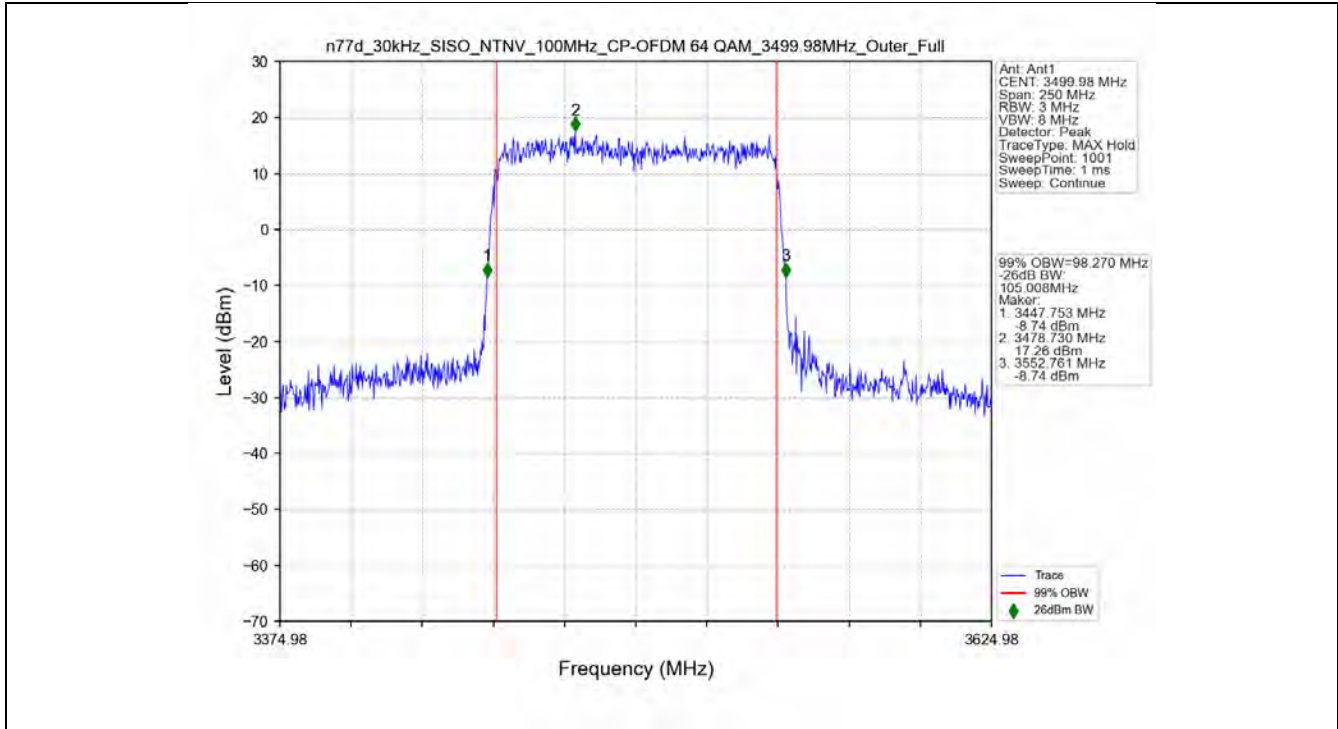


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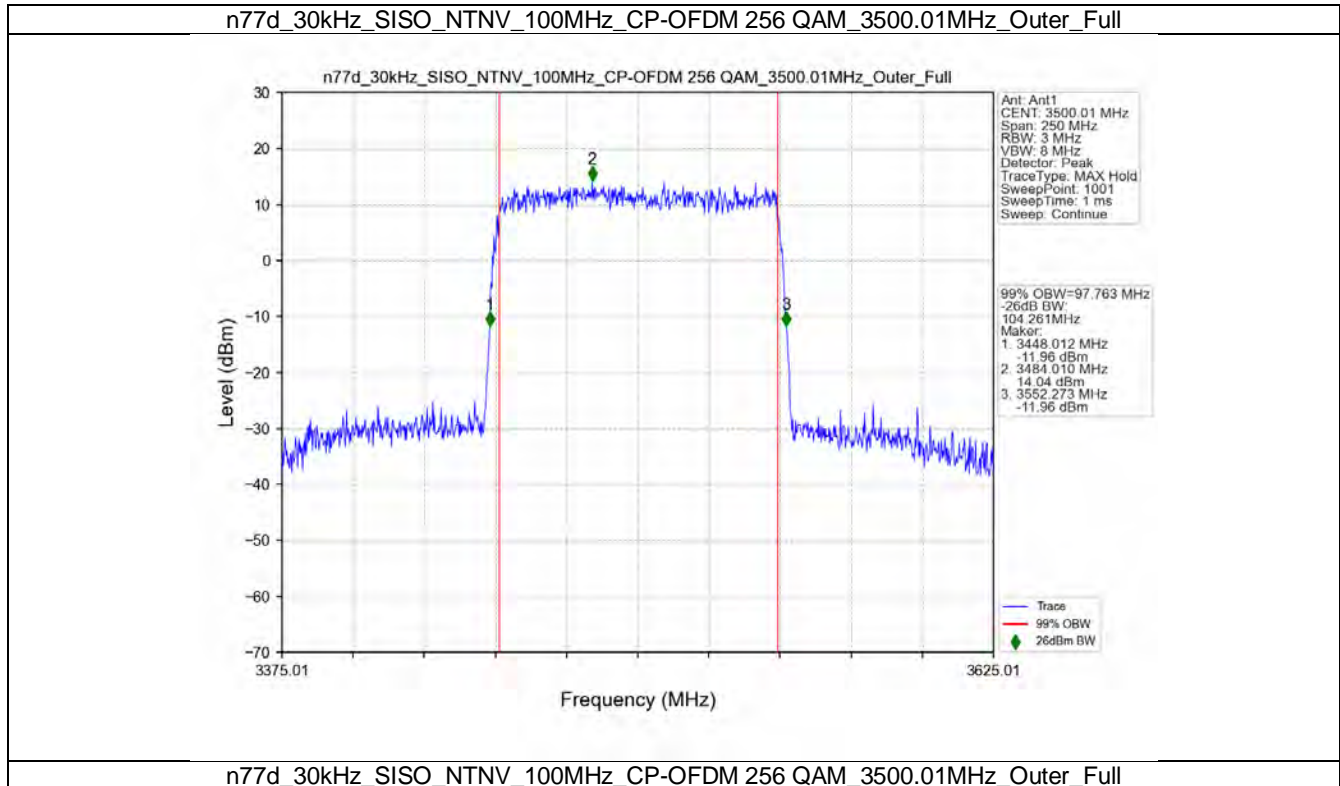


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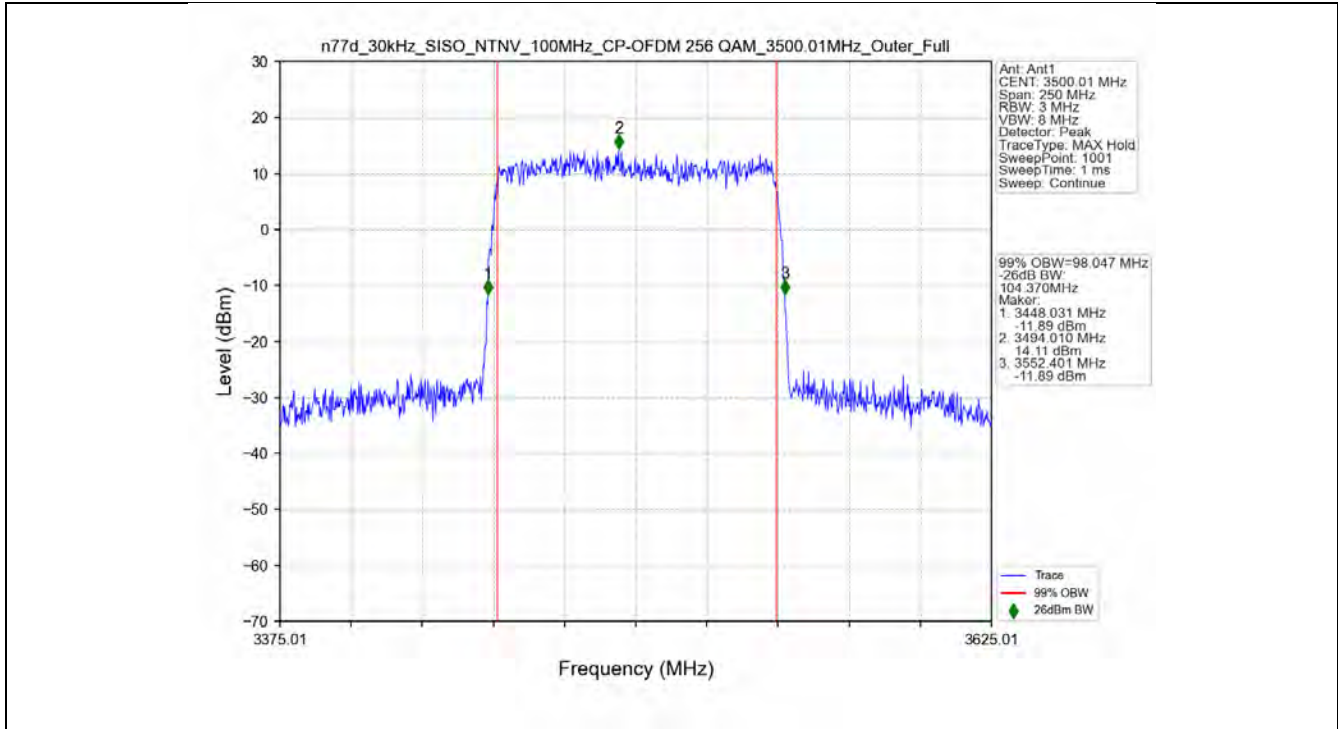


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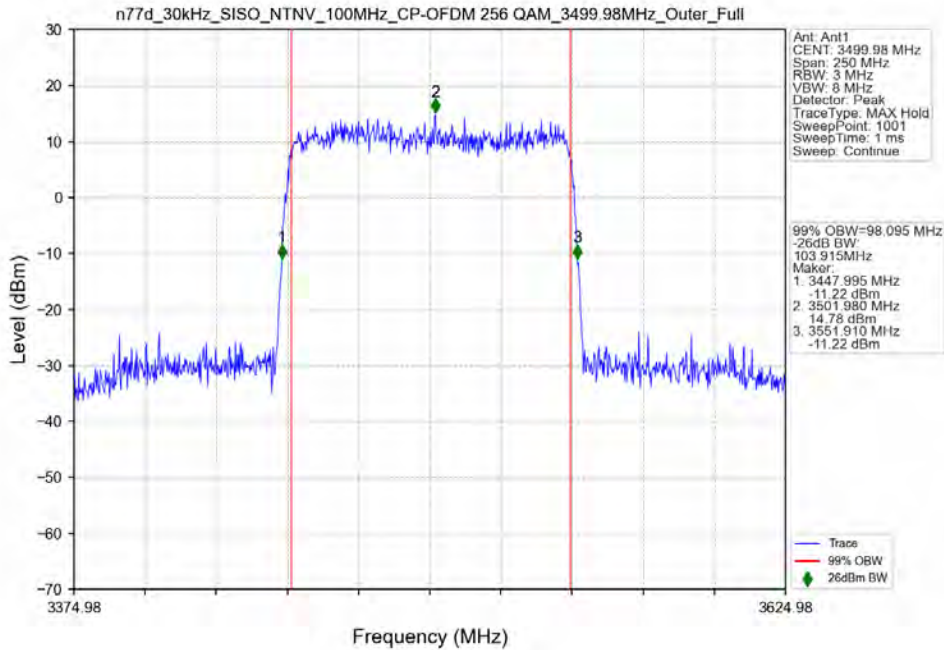
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## 4. Peak-Average Ratio

### 4.1 30k\_SISO\_20MHz\_NTNV

#### 4.1.1 Test Result

5G NR n77d SCS=30kHz SISO 20MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)			Limit	Verdict
			Ant1	Ant4	Sum		
DFT-s-OFDM PI/2 BPSK	3460.02	Outer_Full	8.84	/	/	<=13	Pass
	3500.01	Outer_Full	8.02	/	/	<=13	Pass
	3540	Outer_Full	9.88	/	/	<=13	Pass
DFT-s-OFDM QPSK	3460.02	Outer_Full	8.74	/	/	<=13	Pass
	3500.01	Outer_Full	9.14	/	/	<=13	Pass
	3540	Outer_Full	8.88	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3460.02	Outer_Full	9.84	/	/	<=13	Pass
	3500.01	Outer_Full	9.69	/	/	<=13	Pass
	3540	Outer_Full	9.80	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3460.02	Outer_Full	9.91	/	/	<=13	Pass
	3500.01	Outer_Full	10.06	/	/	<=13	Pass
	3540	Outer_Full	9.80	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3460.02	Outer_Full	10.11	/	/	<=13	Pass
	3500.01	Outer_Full	10.90	/	/	<=13	Pass
	3540	Outer_Full	10.79	/	/	<=13	Pass
CP-OFDM QPSK	3460.02	Outer_Full	11.55	/	/	<=13	Pass
	3500.01	Outer_Full	11.98	/	/	<=13	Pass
	3540	Outer_Full	11.54	/	/	<=13	Pass
CP-OFDM 16 QAM	3460.02	Outer_Full	11.07	/	/	<=13	Pass
	3500.01	Outer_Full	10.69	/	/	<=13	Pass
	3540	Outer_Full	12.71	/	/	<=13	Pass
CP-OFDM 64 QAM	3460.02	Outer_Full	11.65	/	/	<=13	Pass
	3500.01	Outer_Full	11.75	/	/	<=13	Pass
	3540	Outer_Full	10.83	/	/	<=13	Pass
CP-OFDM 256 QAM	3460.02	Outer_Full	11.99	/	/	<=13	Pass
	3500.01	Outer_Full	11.59	/	/	<=13	Pass
	3540	Outer_Full	11.94	/	/	<=13	Pass



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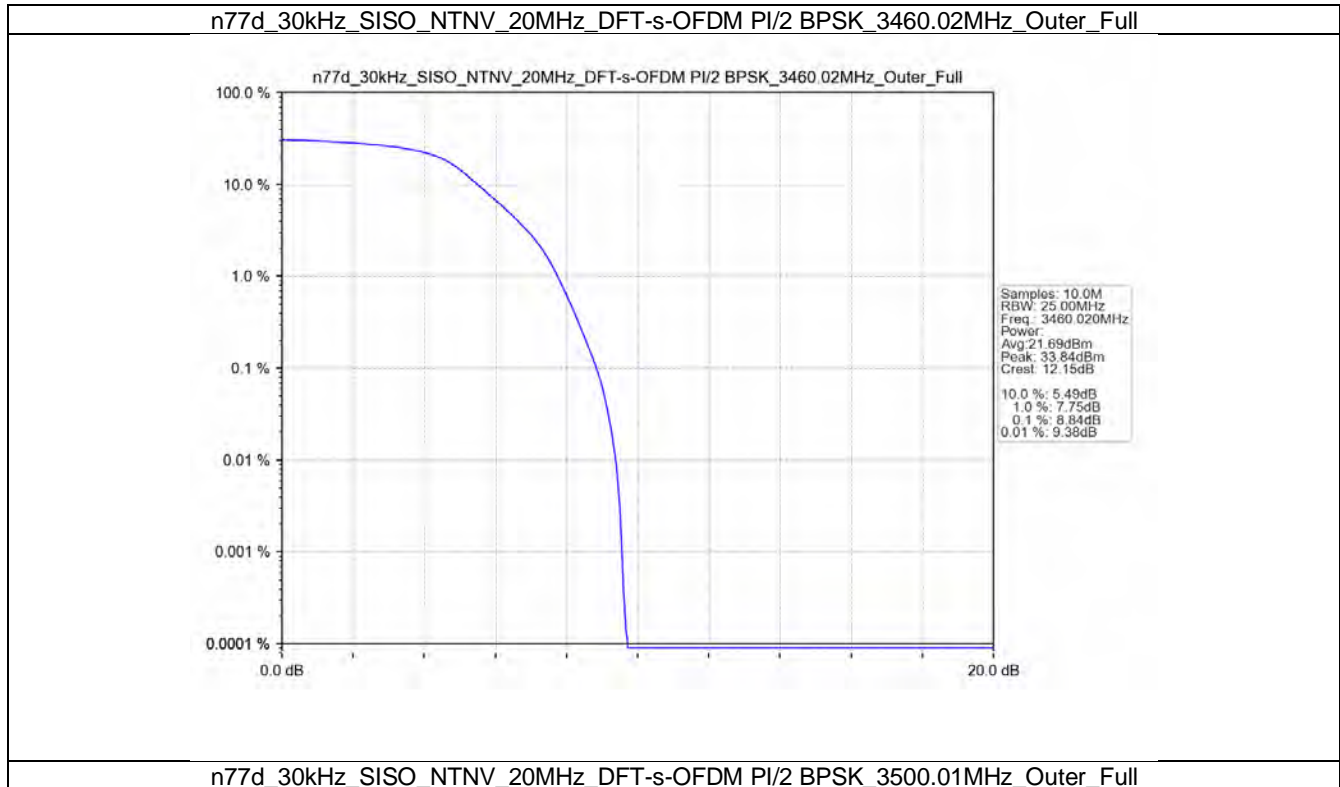
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4.1.2 Test Graph



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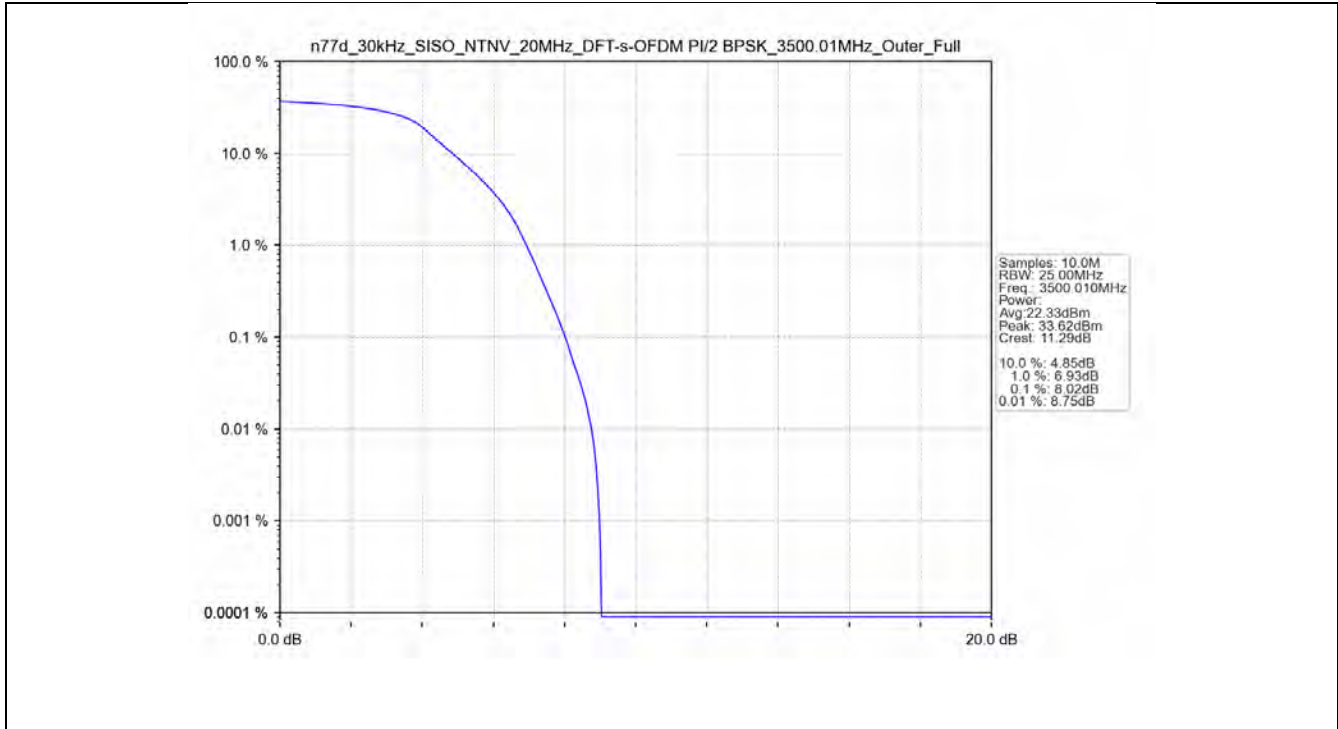


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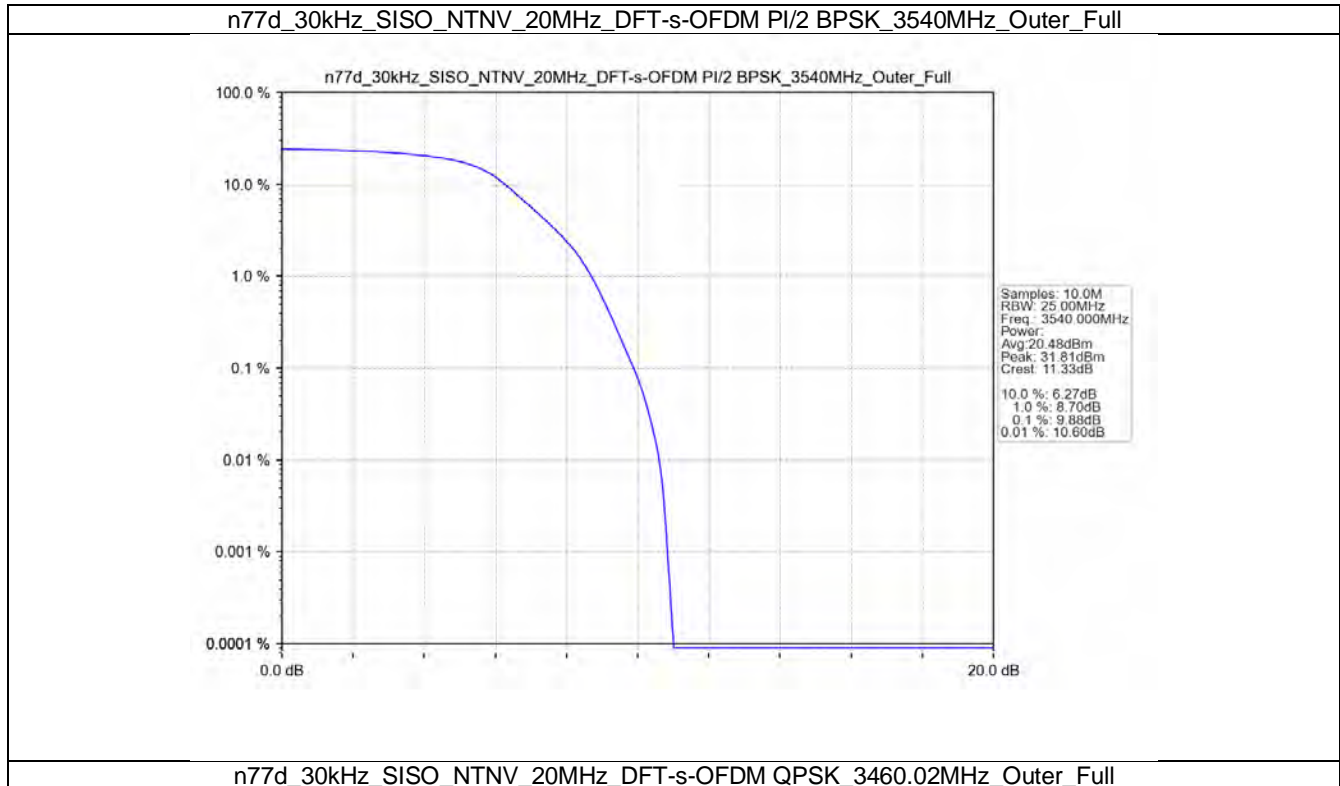


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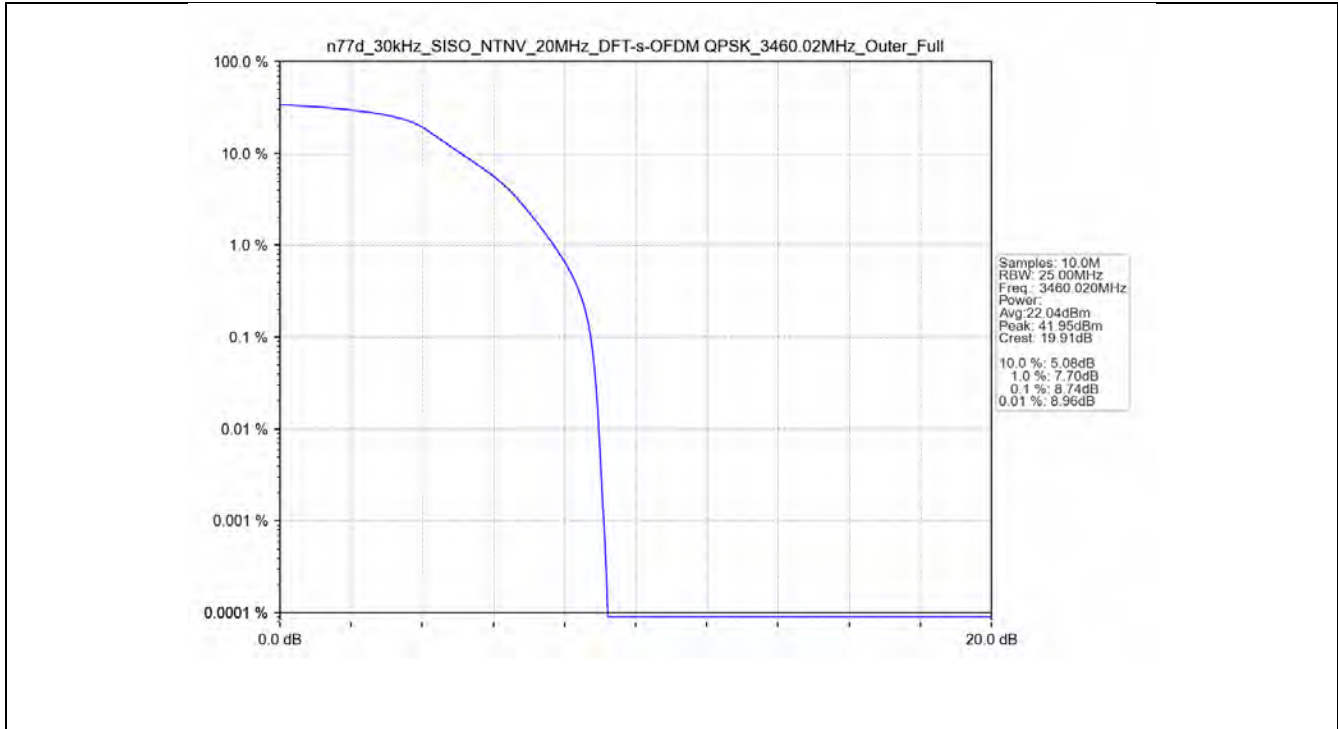


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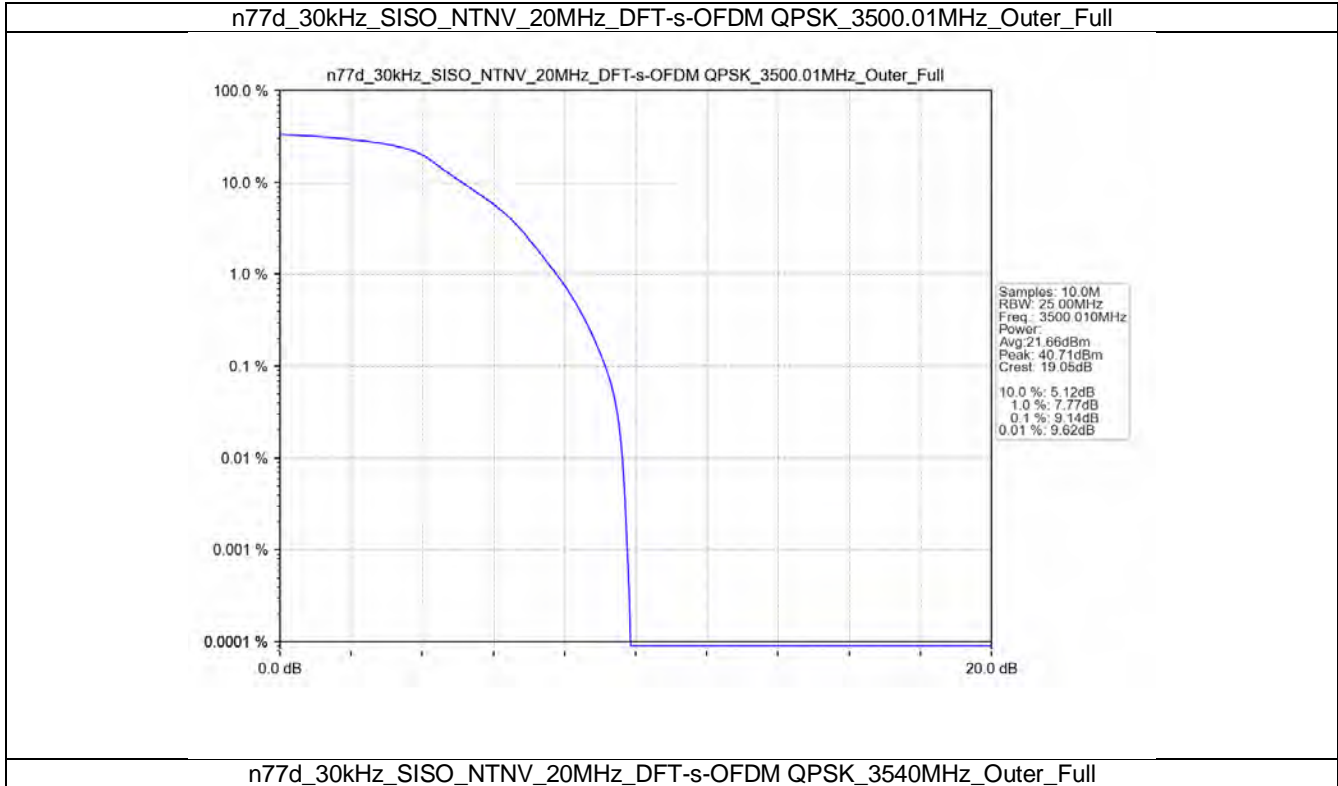


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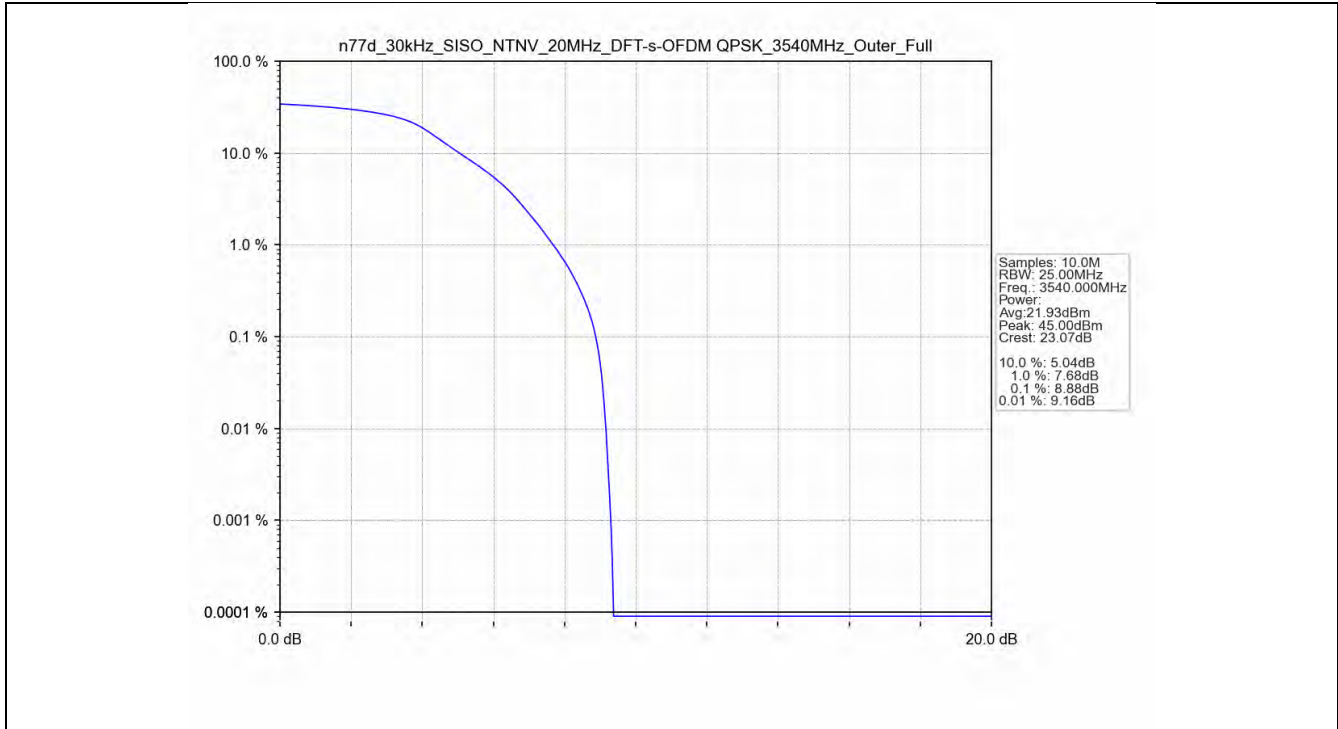


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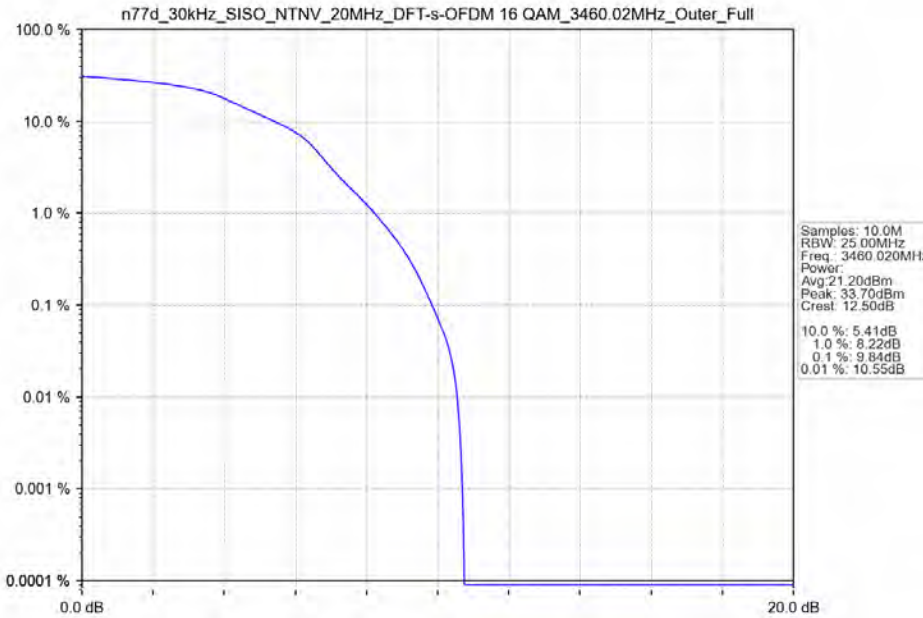
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n77d\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 16 QAM\_3460.02MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 16 QAM\_3500.01MHz\_Outer\_Full



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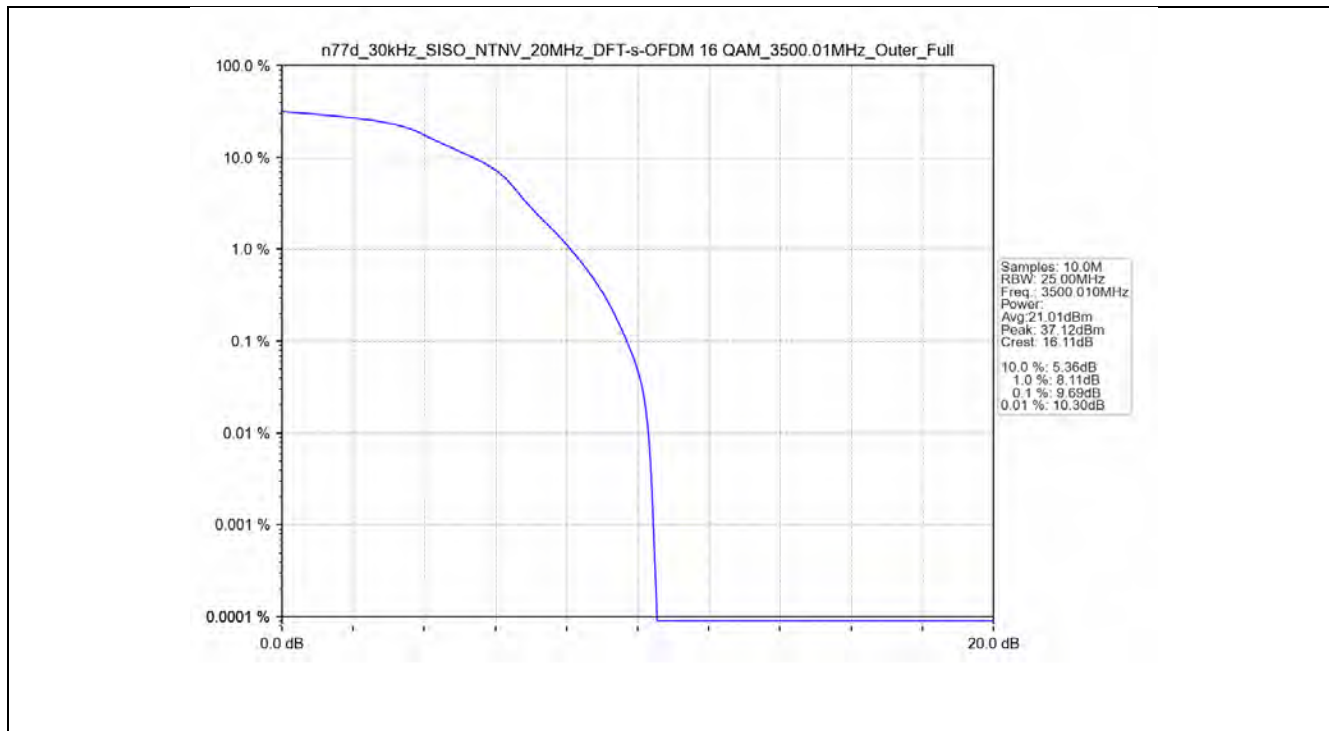
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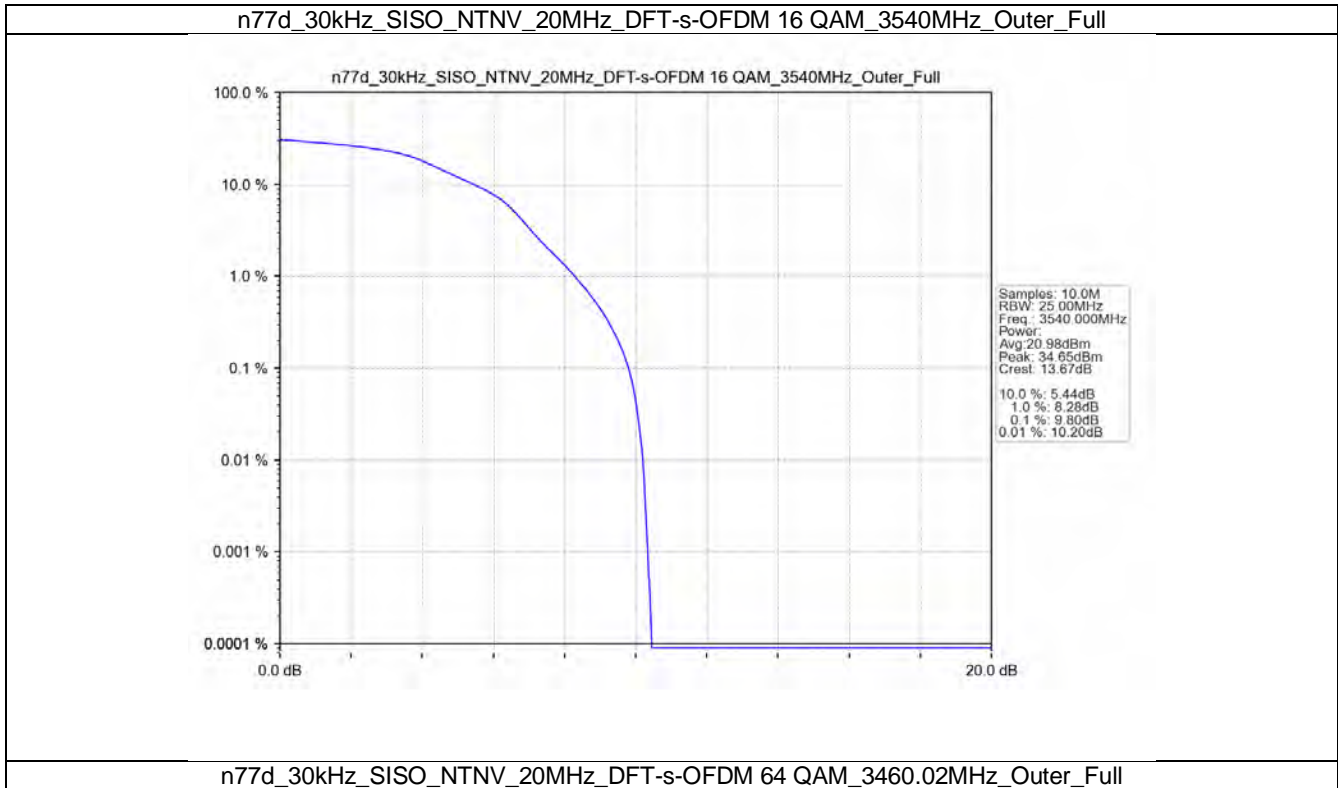


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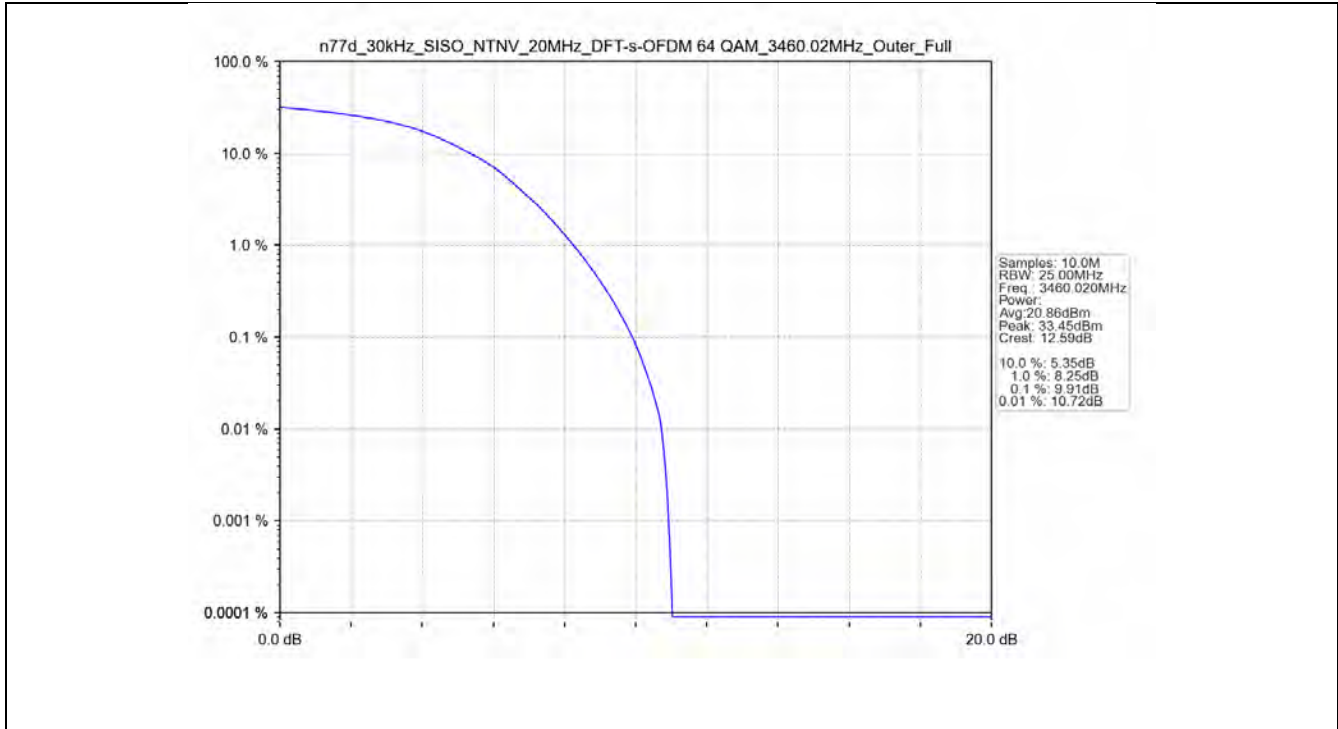


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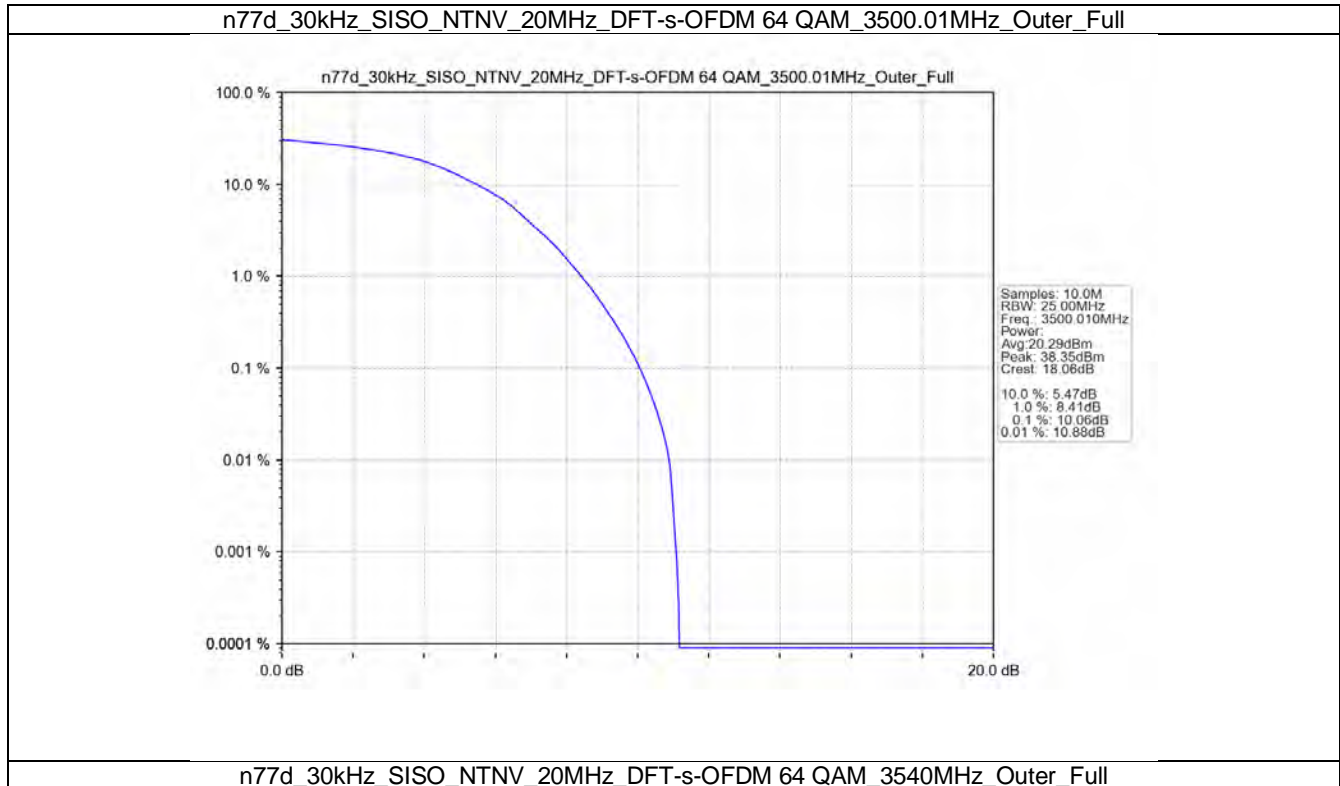


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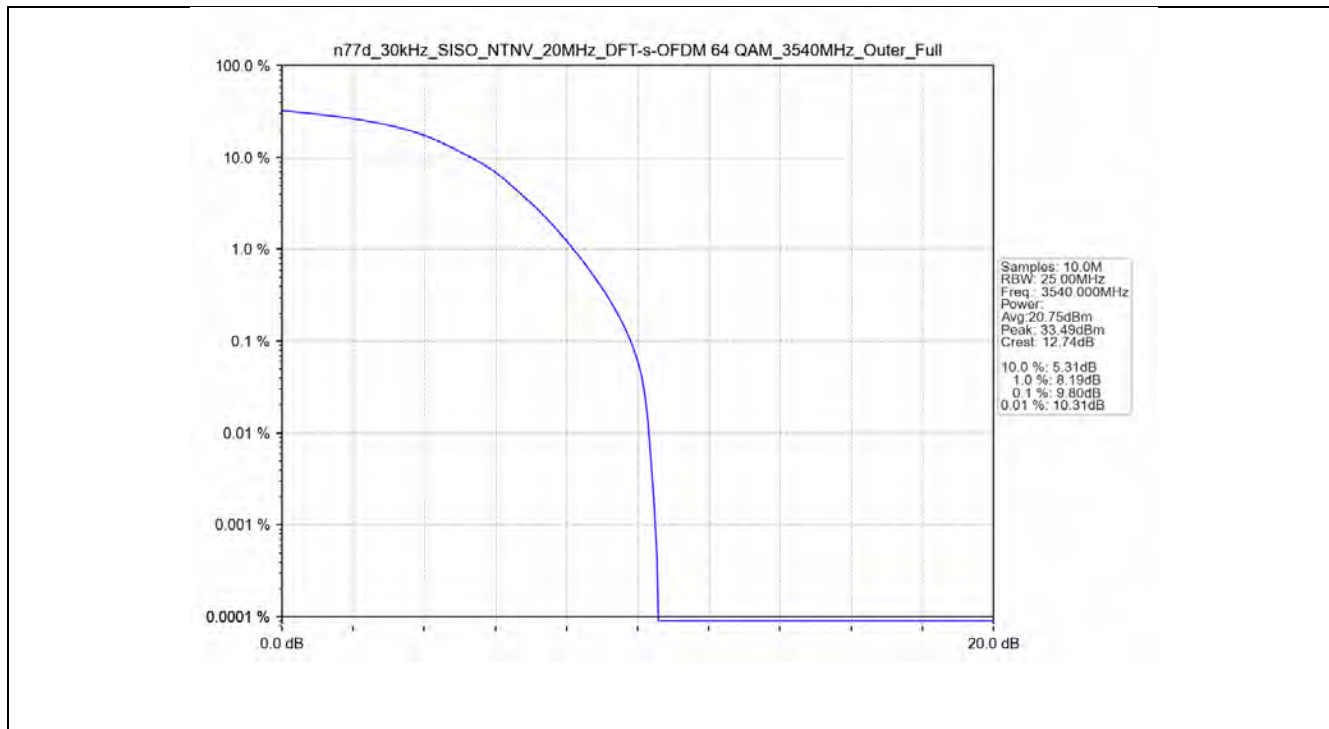
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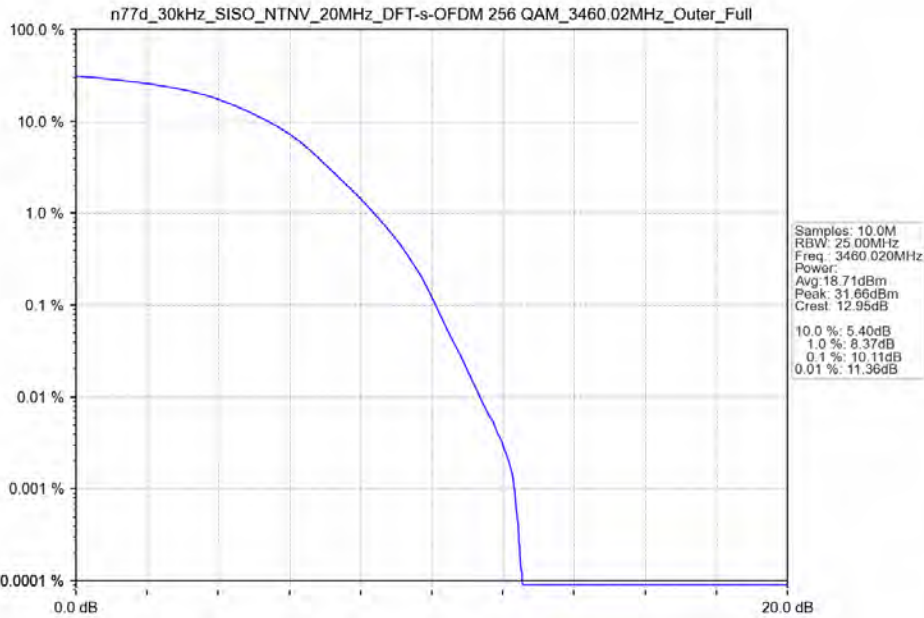
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n77d\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_3460.02MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full



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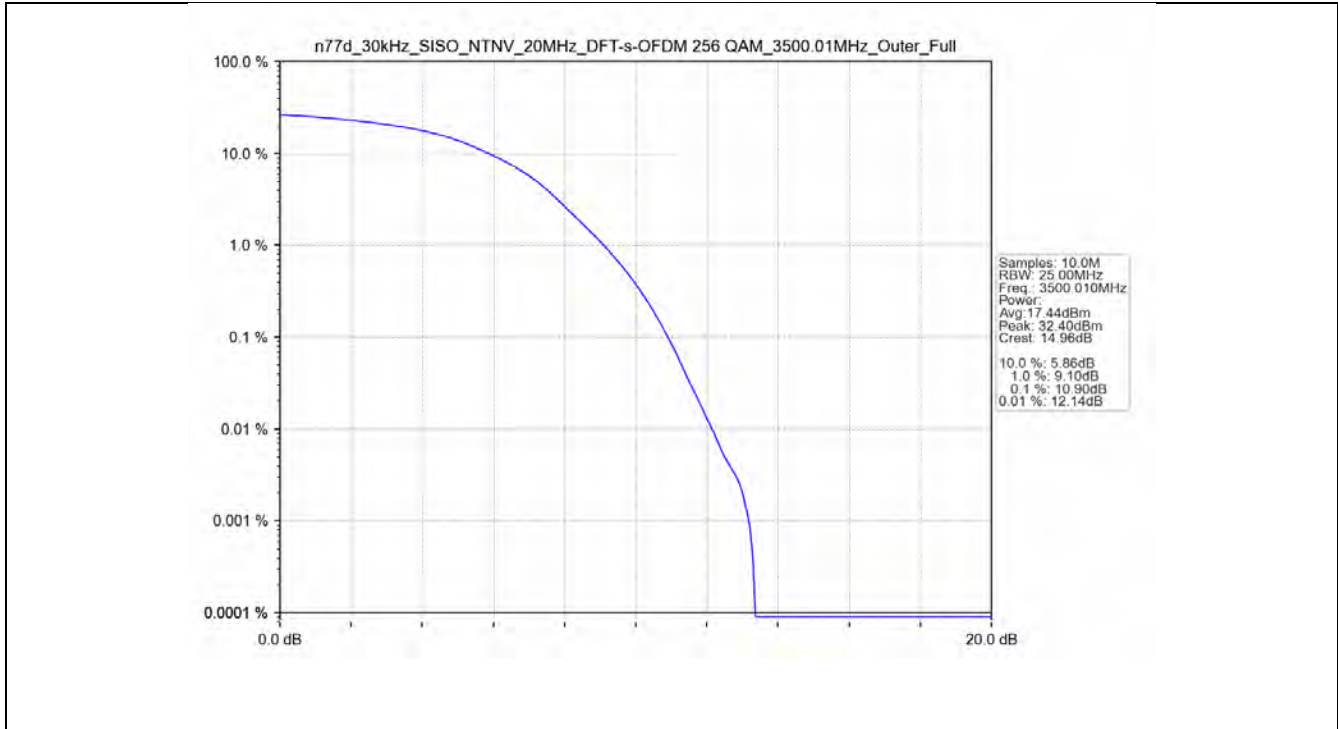


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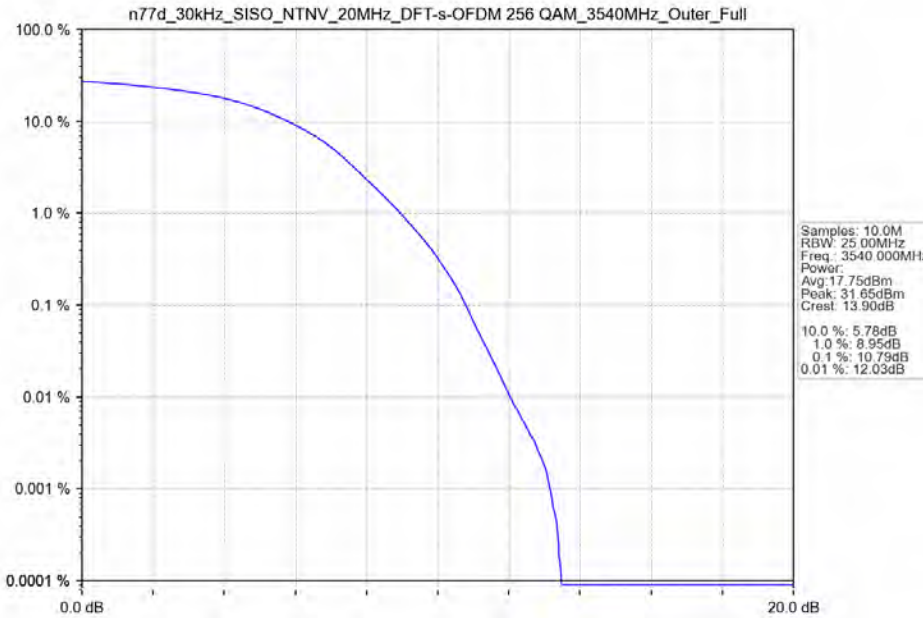
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n77d\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 256 QAM\_3540MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3460.02MHz\_Outer\_Full



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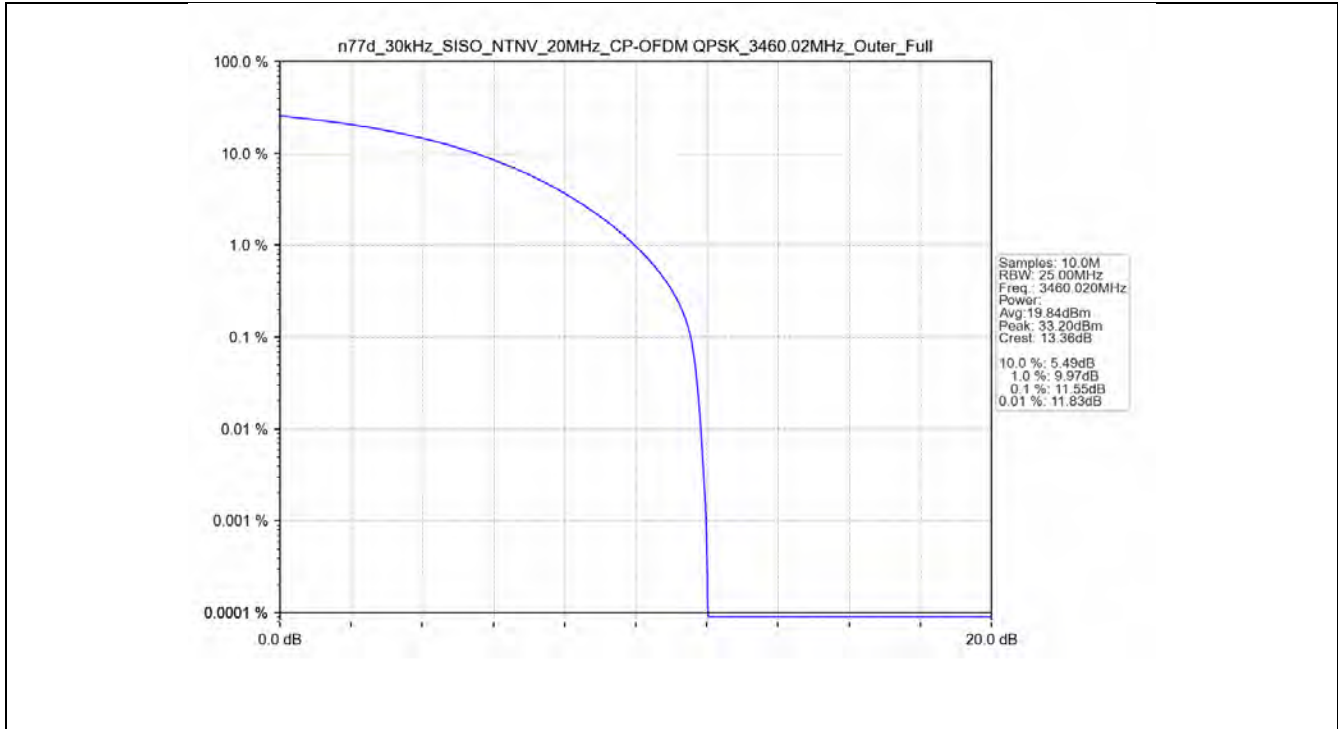


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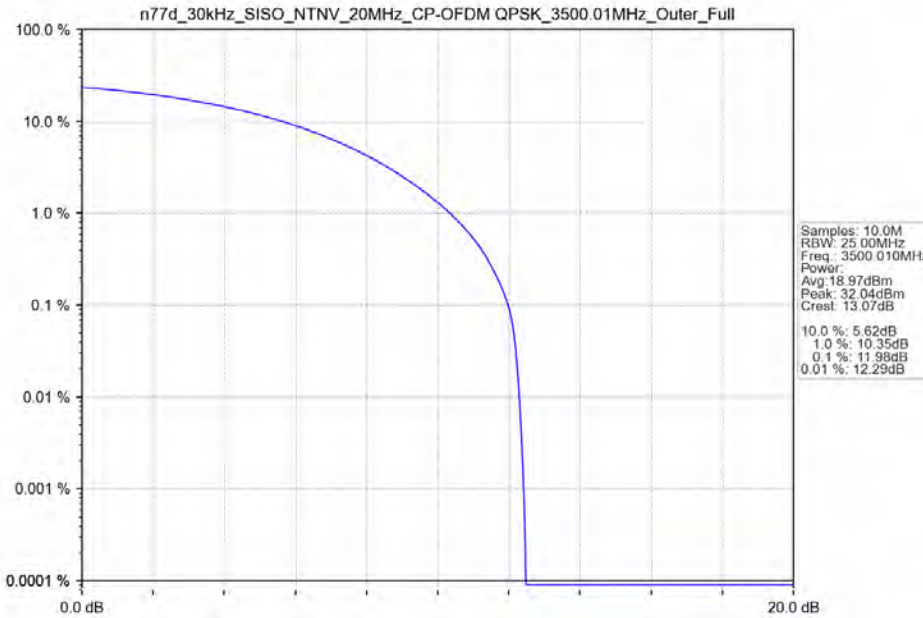
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n77d\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3500.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3540MHz\_Outer\_Full



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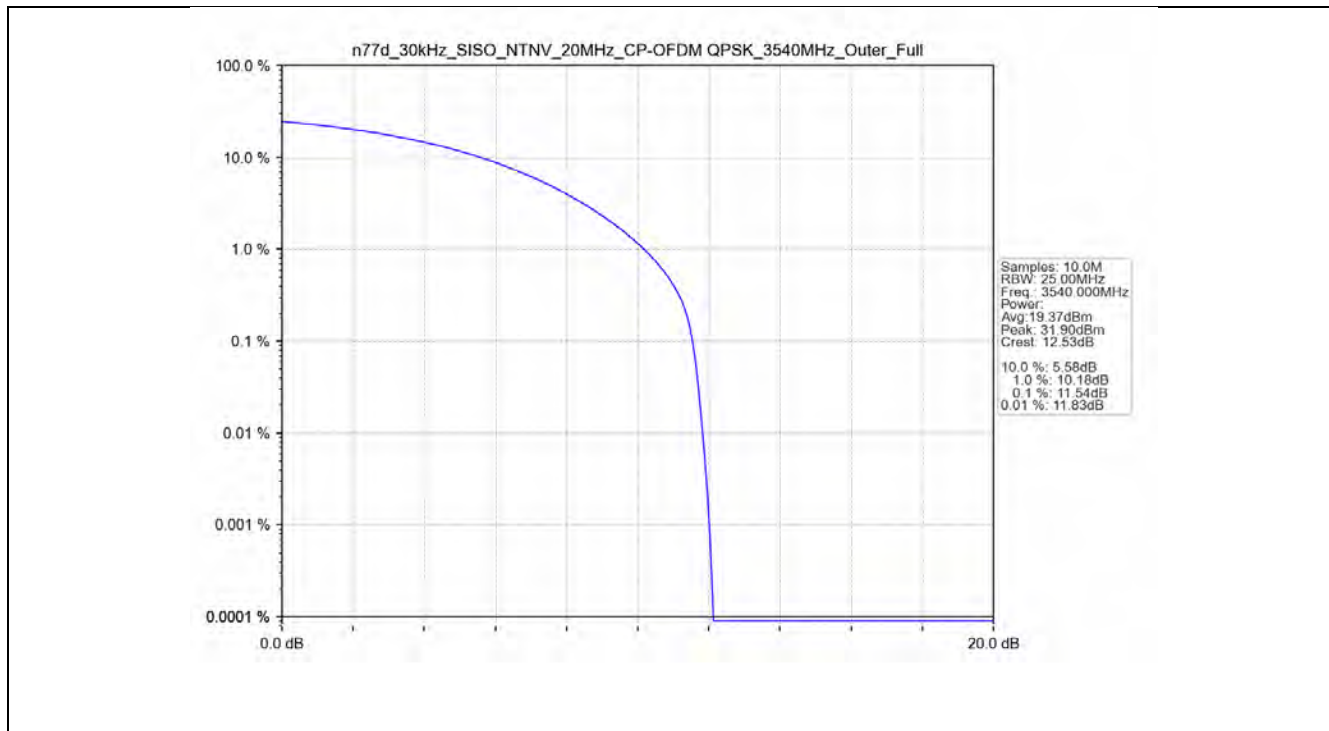
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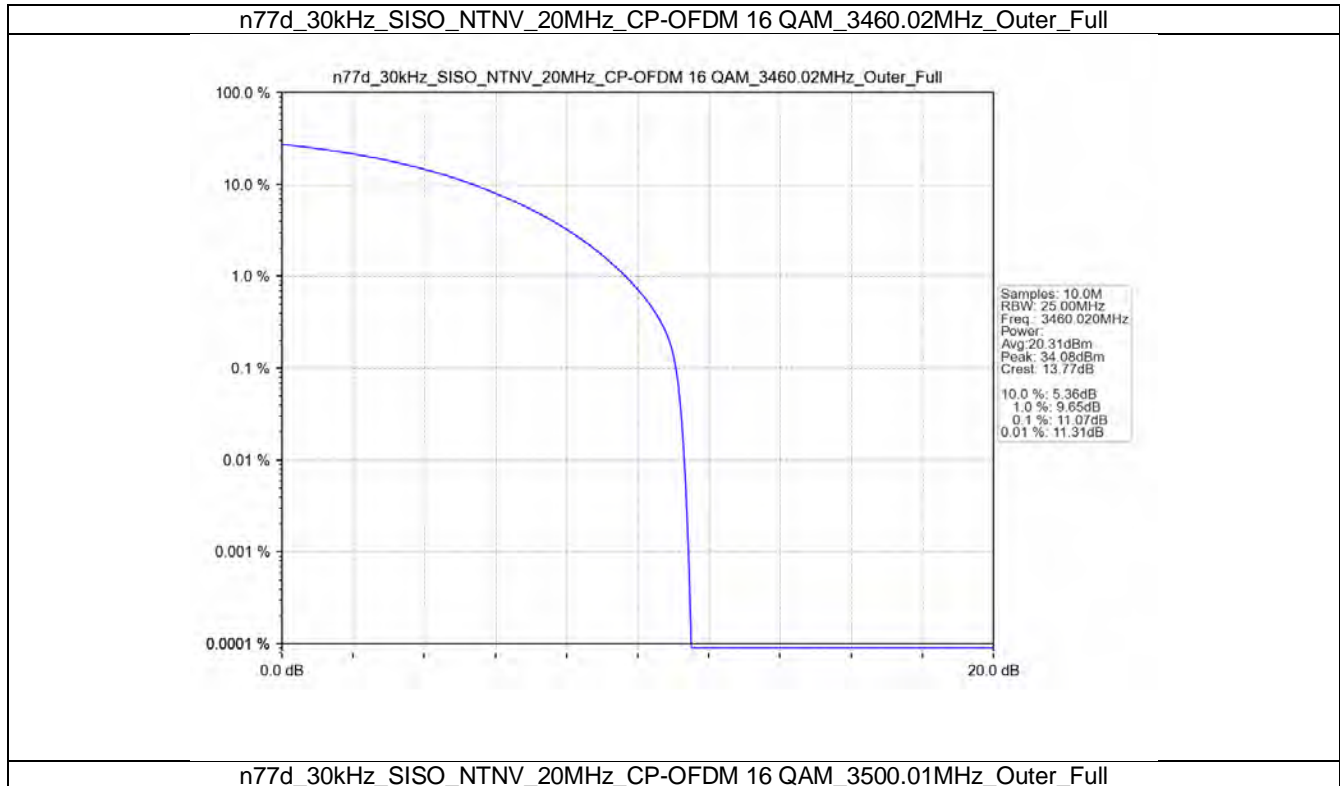


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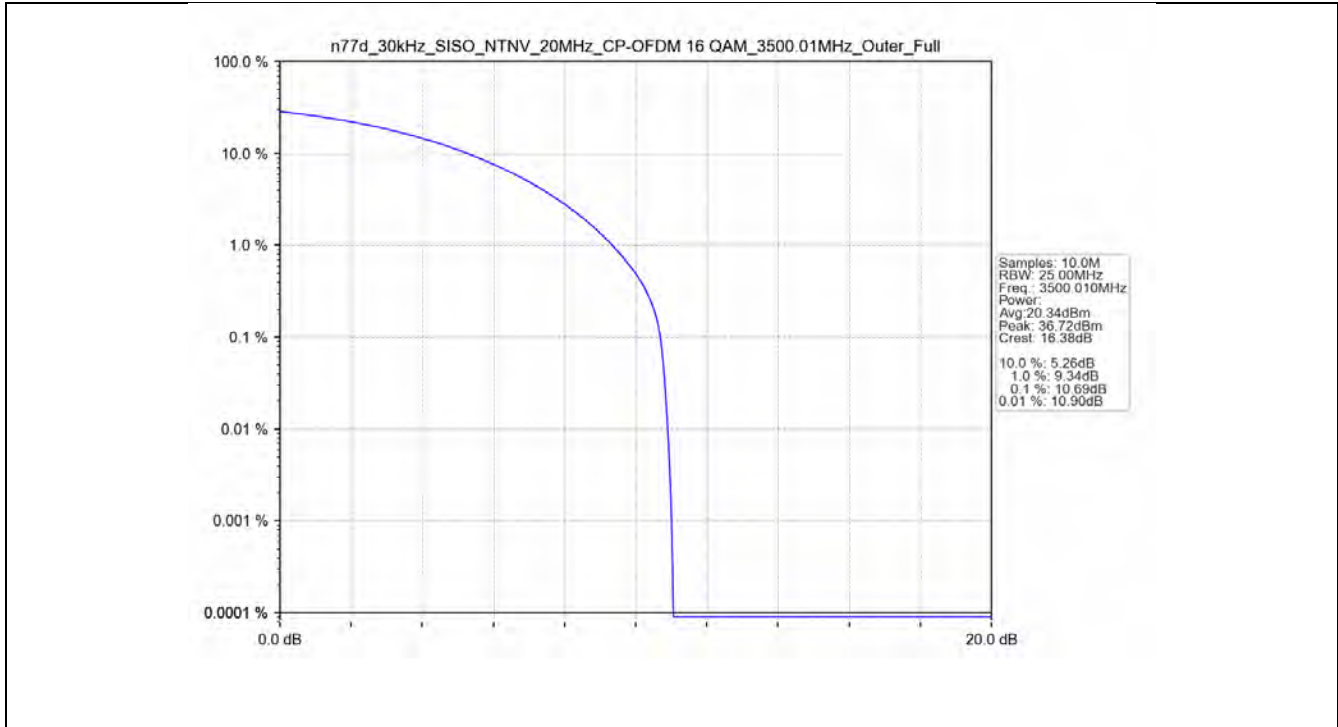


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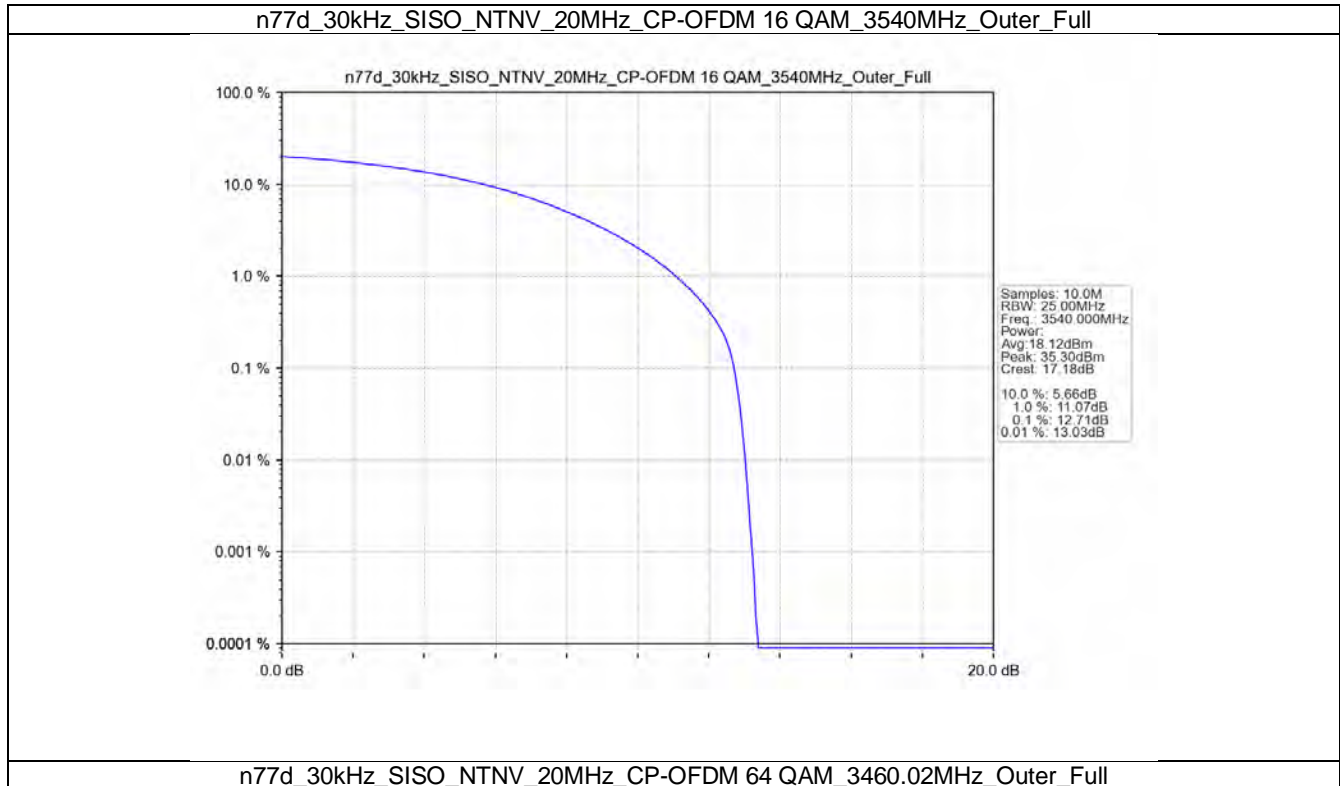


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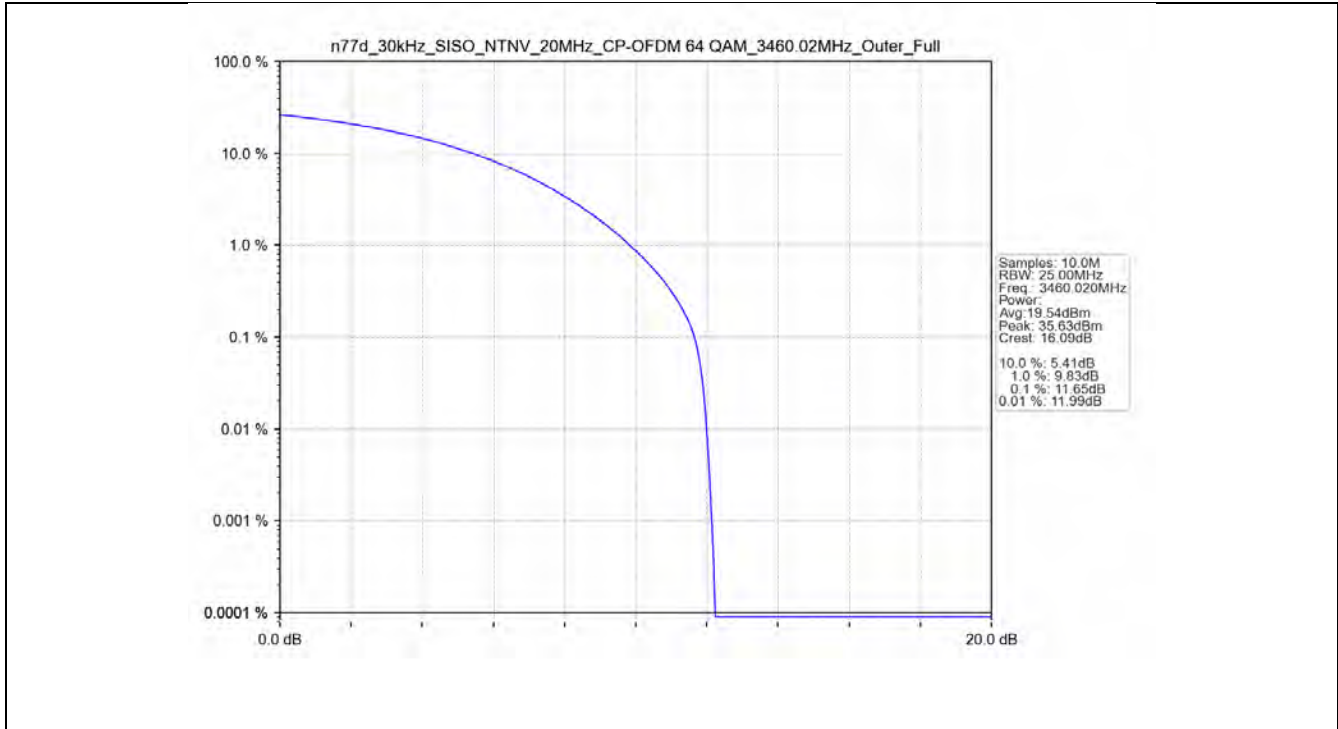


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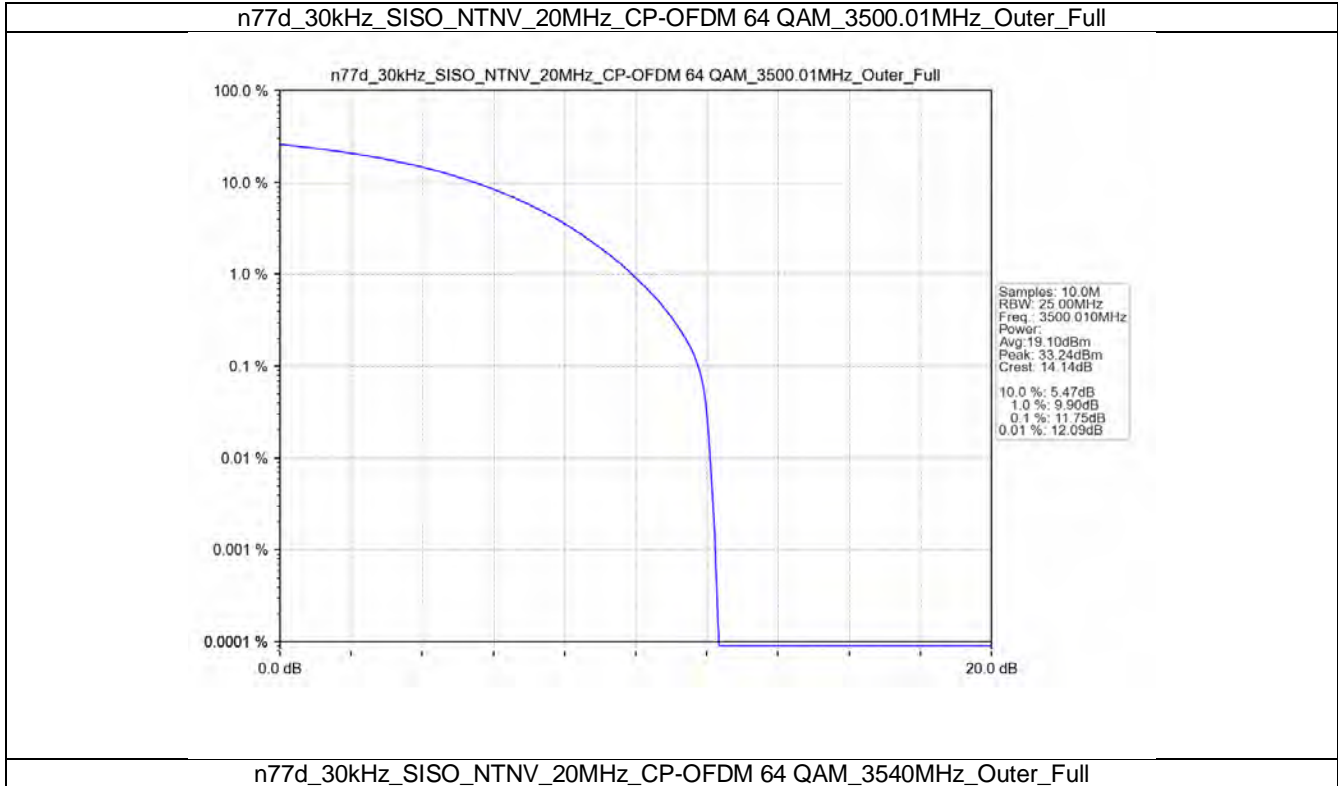


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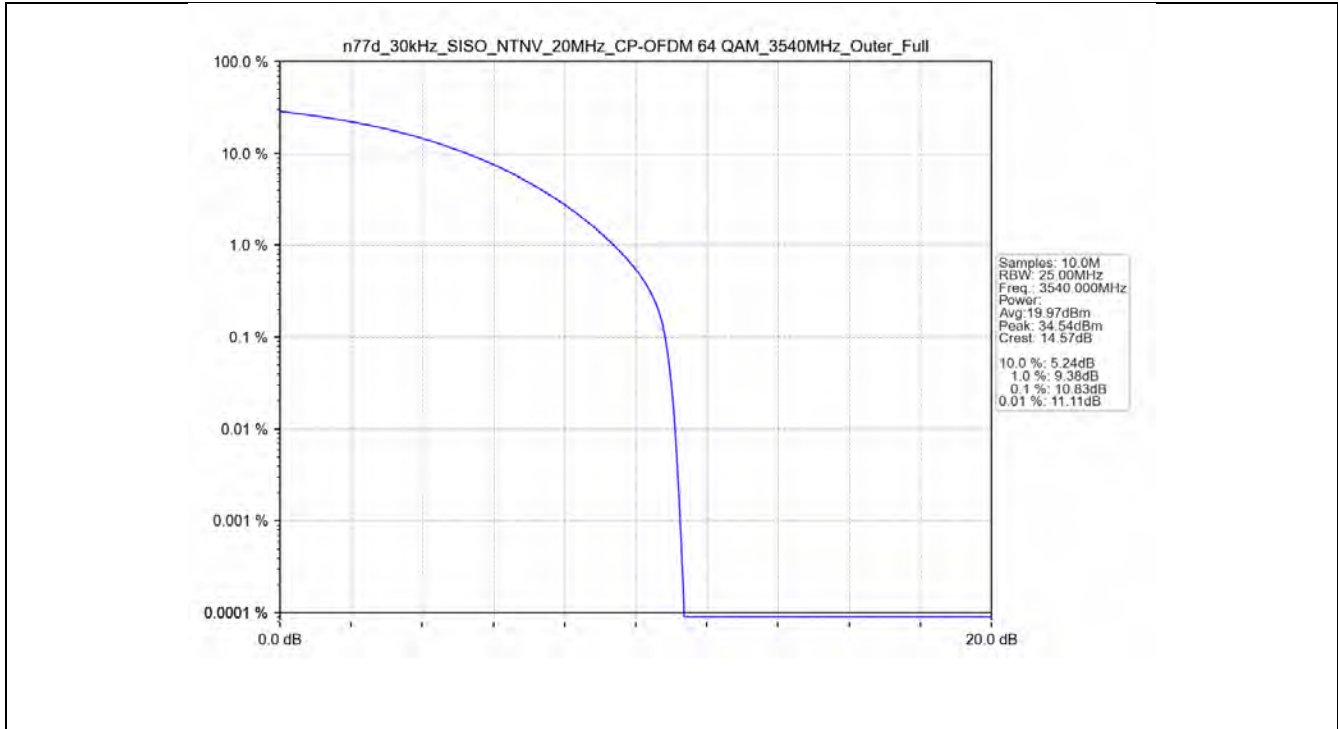


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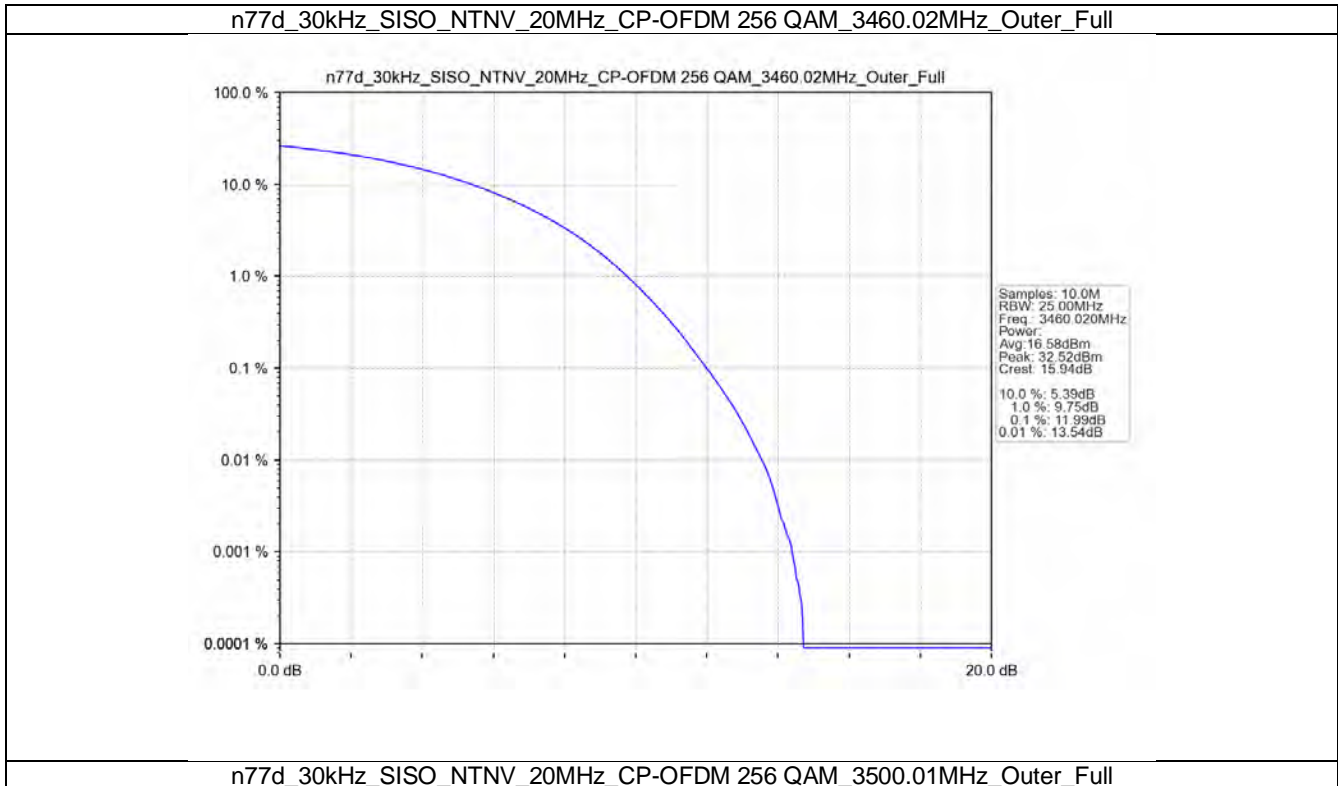


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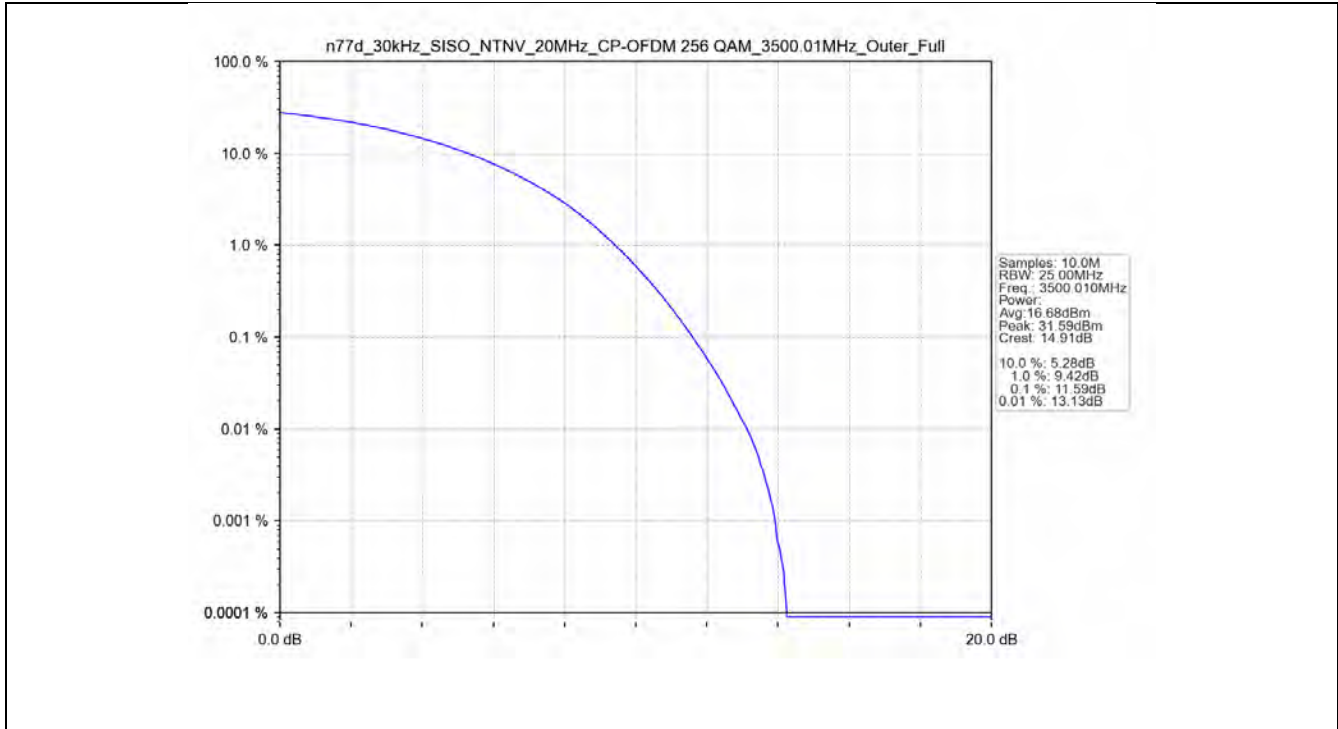


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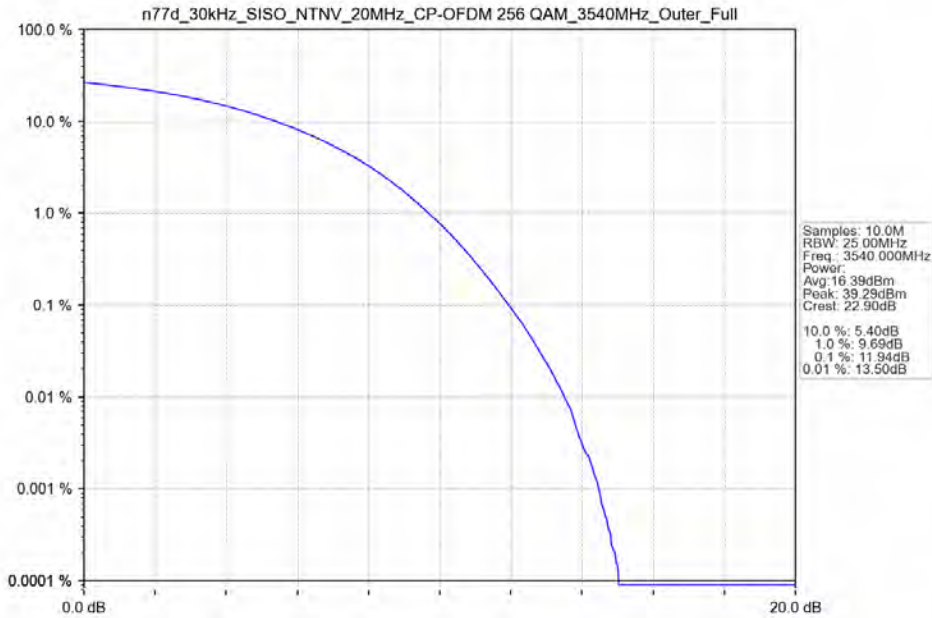
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## 4.2 30k\_SISO\_30MHz\_NTNV

### 4.2.1 Test Result

5G NR n77d SCS=30kHz SISO 30MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3465	Outer_Full	8.97	/	/	<=13	Pass
	3500.01	Outer_Full	8.07	/	/	<=13	Pass
	3534.99	Outer_Full	7.79	/	/	<=13	Pass
DFT-s-OFDM QPSK	3465	Outer_Full	8.86	/	/	<=13	Pass
	3500.01	Outer_Full	8.94	/	/	<=13	Pass
	3534.99	Outer_Full	8.64	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3465	Outer_Full	9.15	/	/	<=13	Pass
	3500.01	Outer_Full	9.52	/	/	<=13	Pass
	3534.99	Outer_Full	9.69	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3465	Outer_Full	10.08	/	/	<=13	Pass
	3500.01	Outer_Full	9.52	/	/	<=13	Pass
	3534.99	Outer_Full	10.07	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3465	Outer_Full	10.14	/	/	<=13	Pass
	3500.01	Outer_Full	9.94	/	/	<=13	Pass
	3534.99	Outer_Full	11.05	/	/	<=13	Pass
CP-OFDM QPSK	3465	Outer_Full	12.69	/	/	<=13	Pass
	3500.01	Outer_Full	11.36	/	/	<=13	Pass
	3534.99	Outer_Full	11.29	/	/	<=13	Pass
CP-OFDM 16 QAM	3465	Outer_Full	11.04	/	/	<=13	Pass
	3500.01	Outer_Full	11.53	/	/	<=13	Pass
	3534.99	Outer_Full	11.31	/	/	<=13	Pass
CP-OFDM 64 QAM	3465	Outer_Full	11.60	/	/	<=13	Pass
	3500.01	Outer_Full	11.25	/	/	<=13	Pass
	3534.99	Outer_Full	12.01	/	/	<=13	Pass
CP-OFDM 256 QAM	3465	Outer_Full	12.54	/	/	<=13	Pass
	3500.01	Outer_Full	12.30	/	/	<=13	Pass
	3534.99	Outer_Full	12.58	/	/	<=13	Pass



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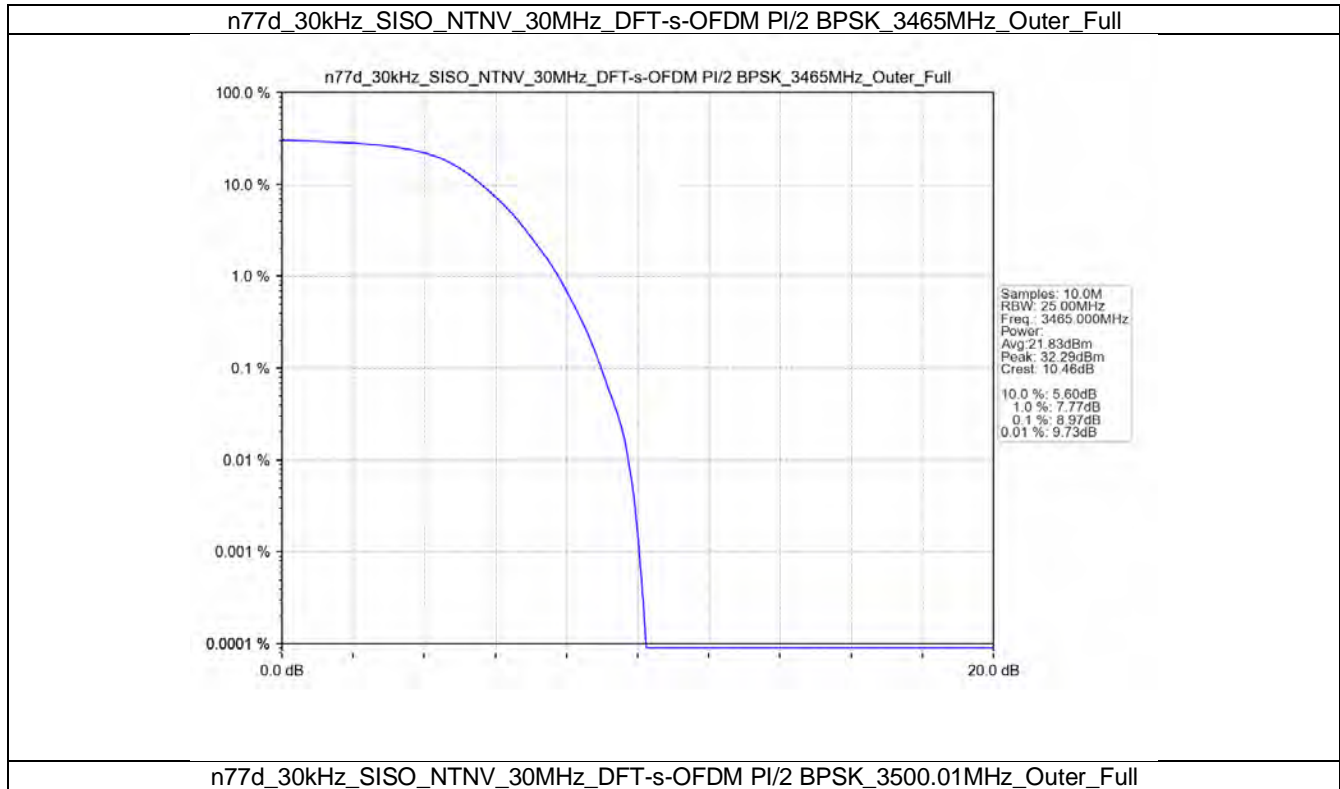


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4.2.2 Test Graph



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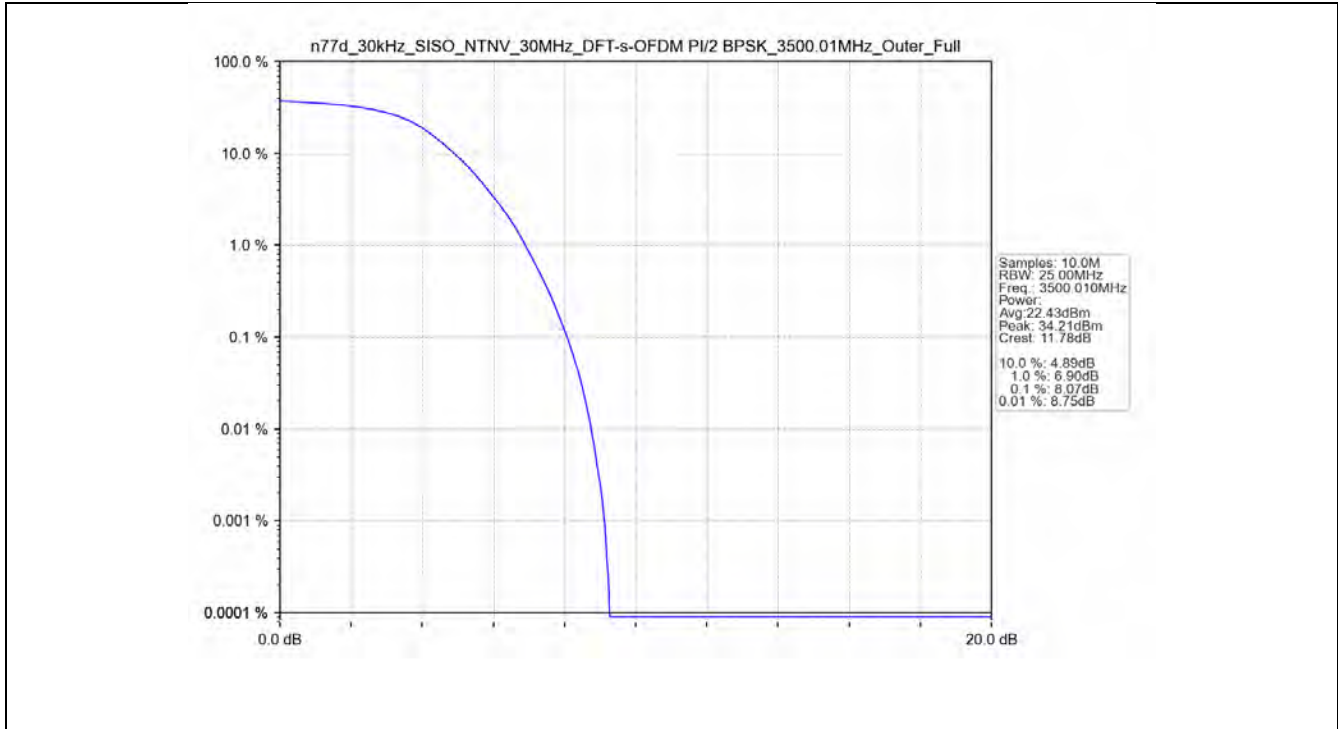


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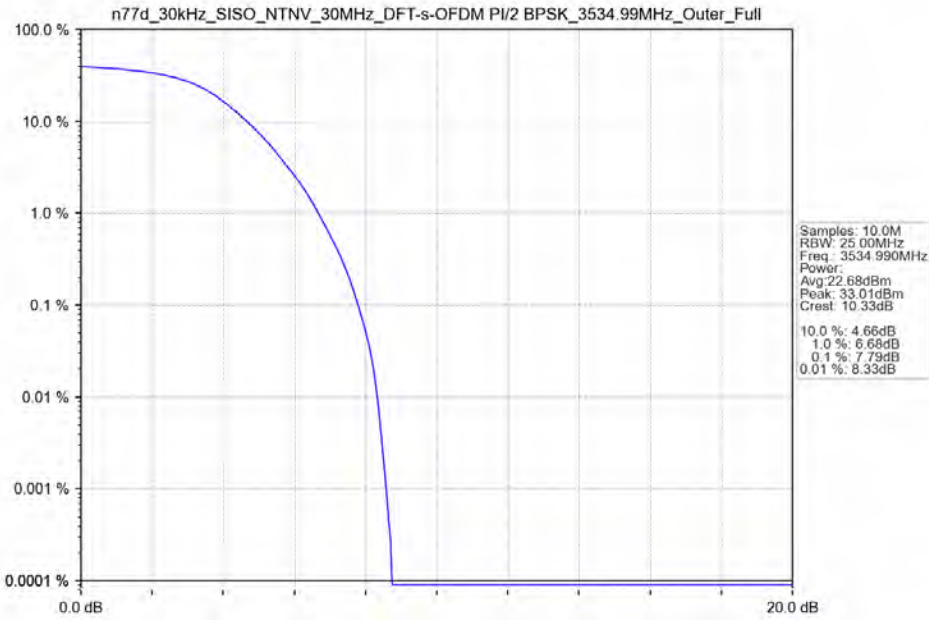
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n77d\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3534.99MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3465MHz\_Outer\_Full



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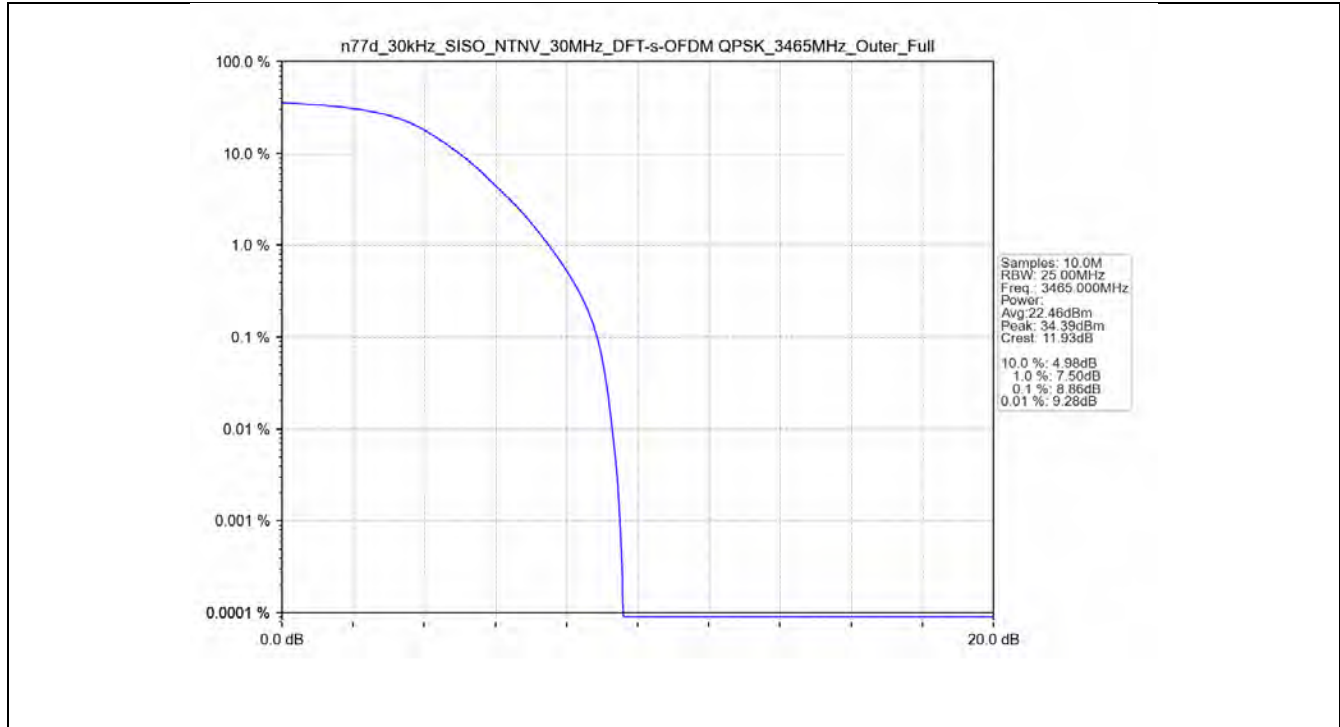


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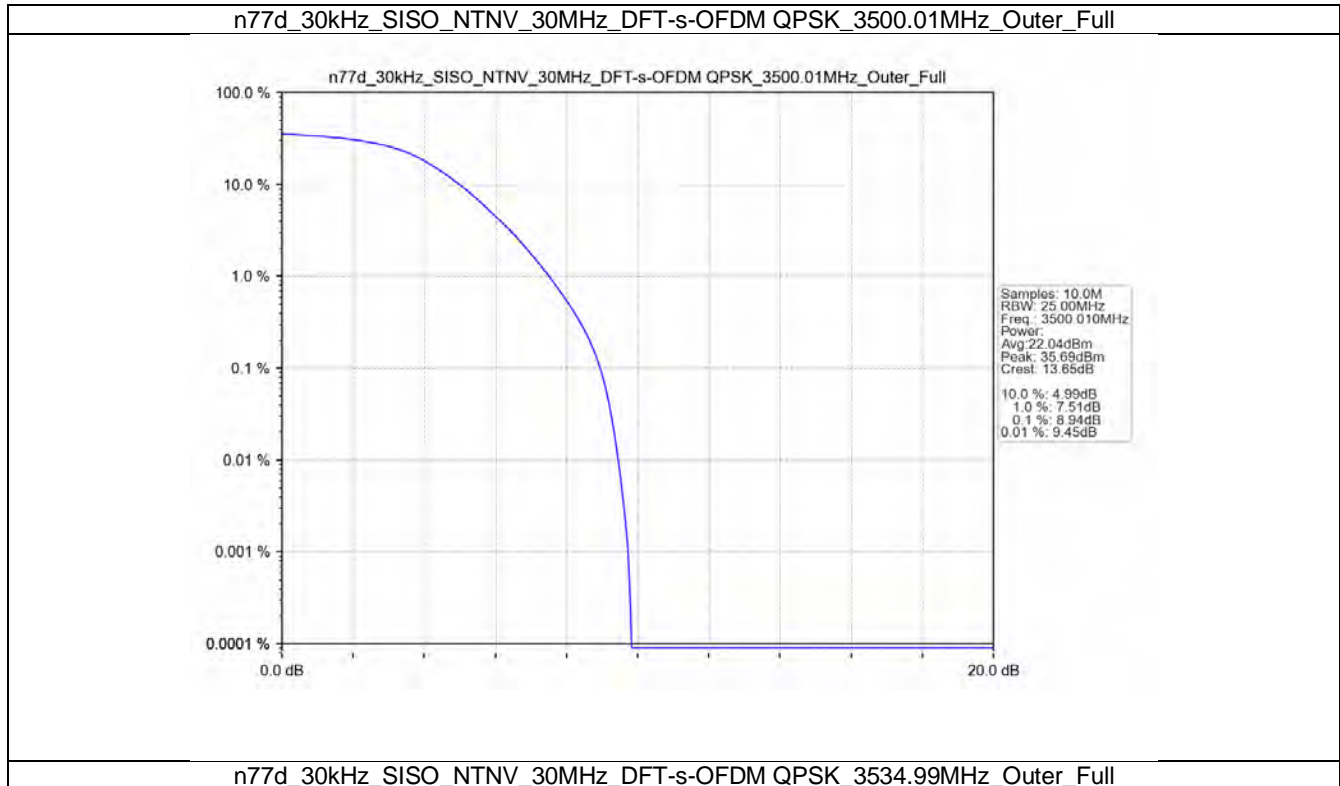


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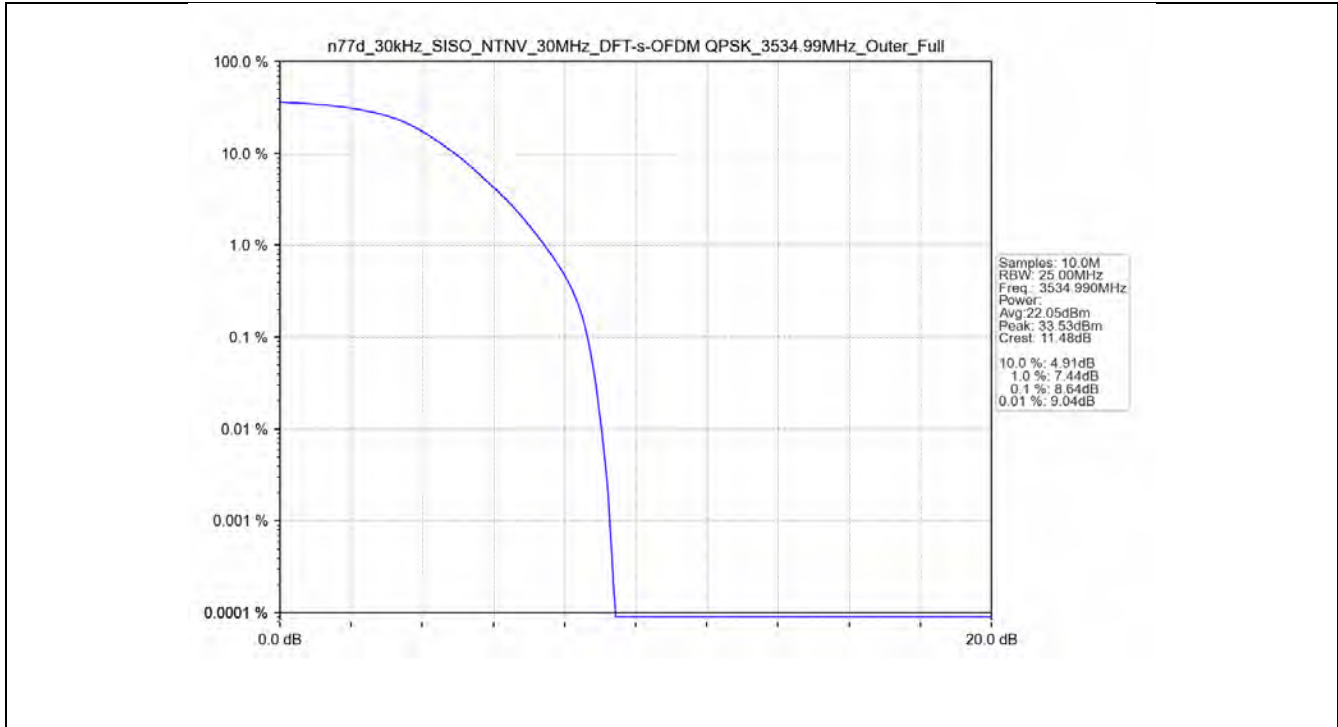


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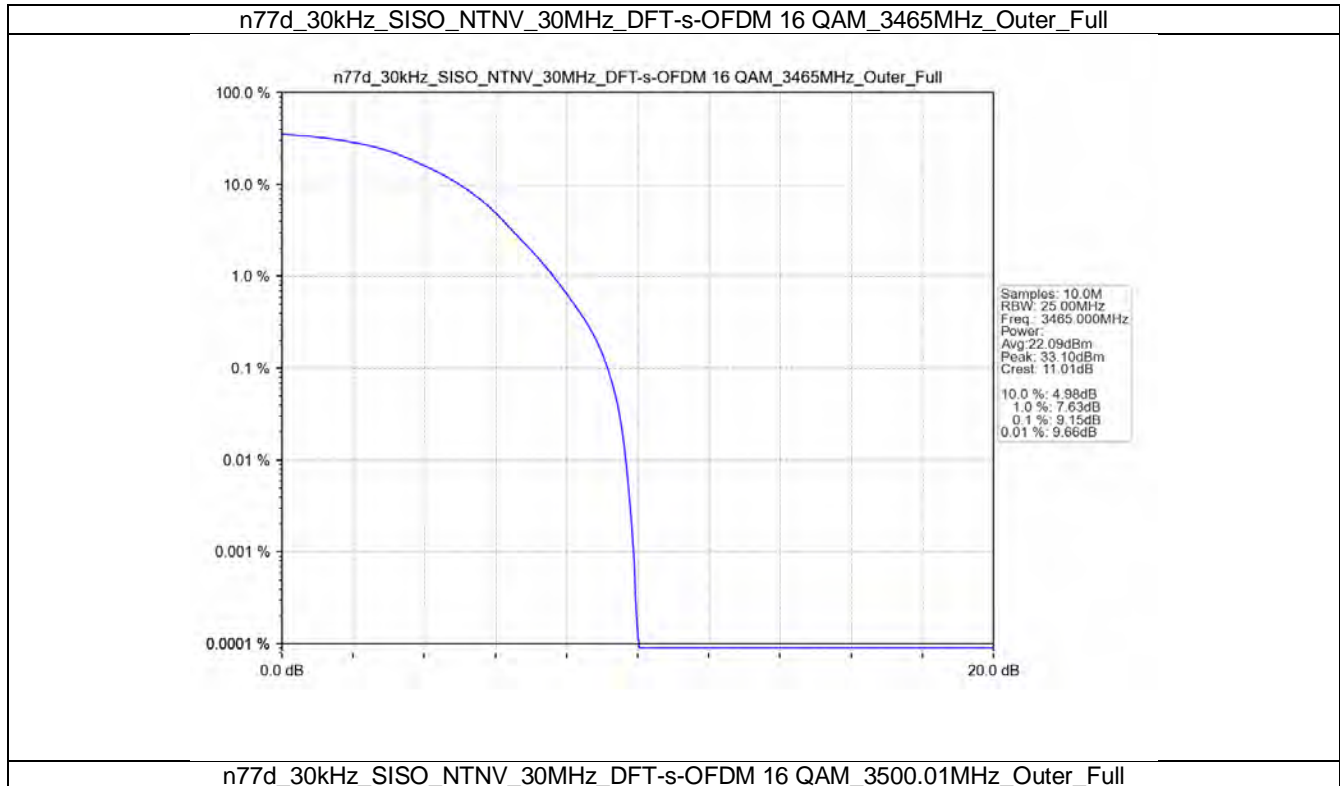


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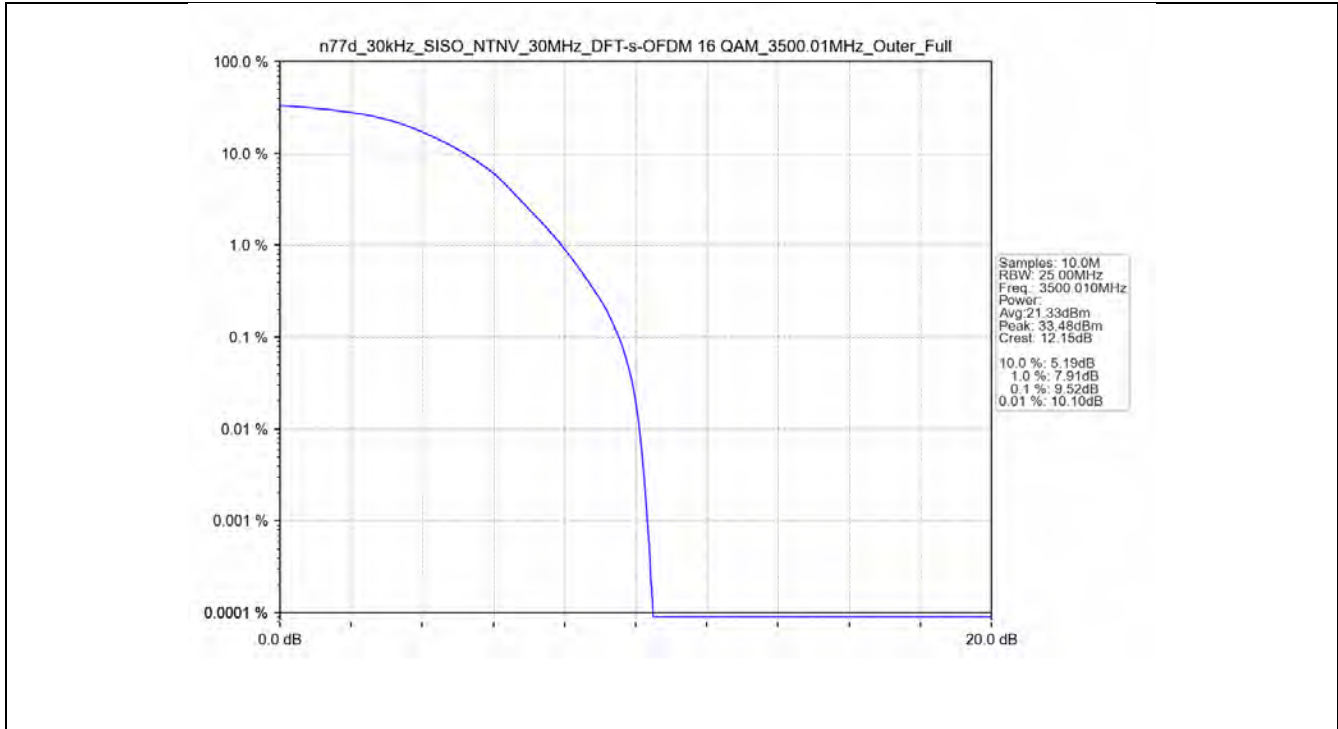


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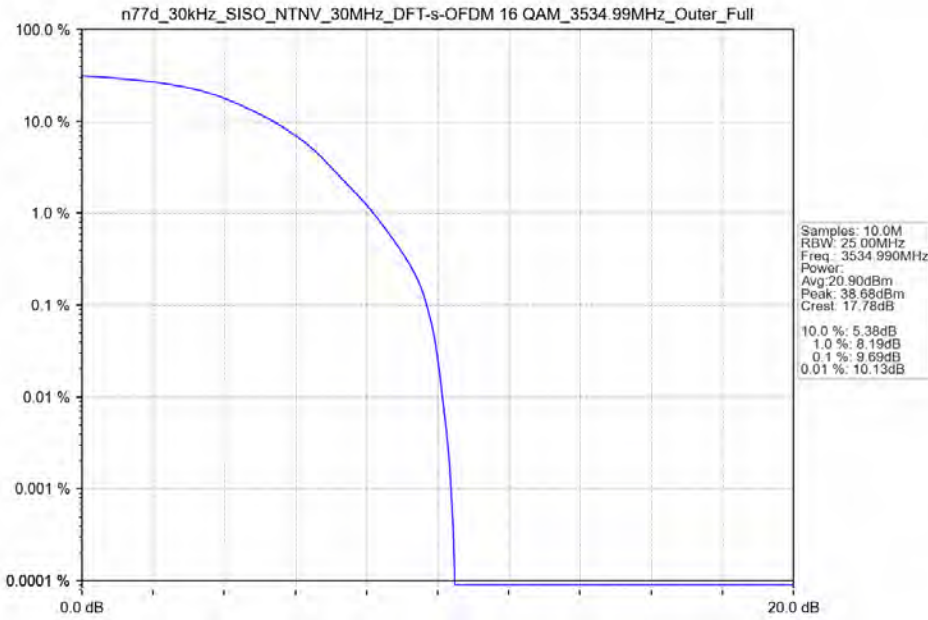
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n77d\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 16 QAM\_3534.99MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 64 QAM\_3465MHz\_Outer\_Full



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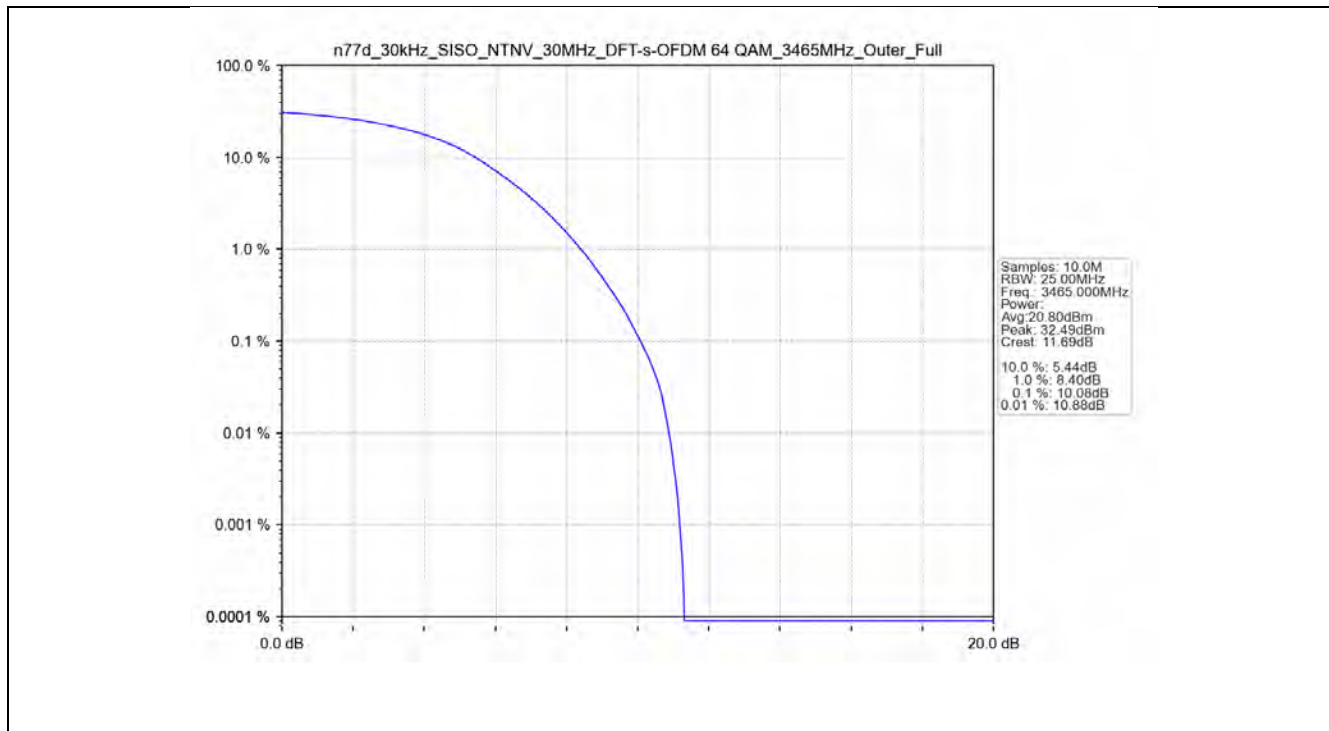
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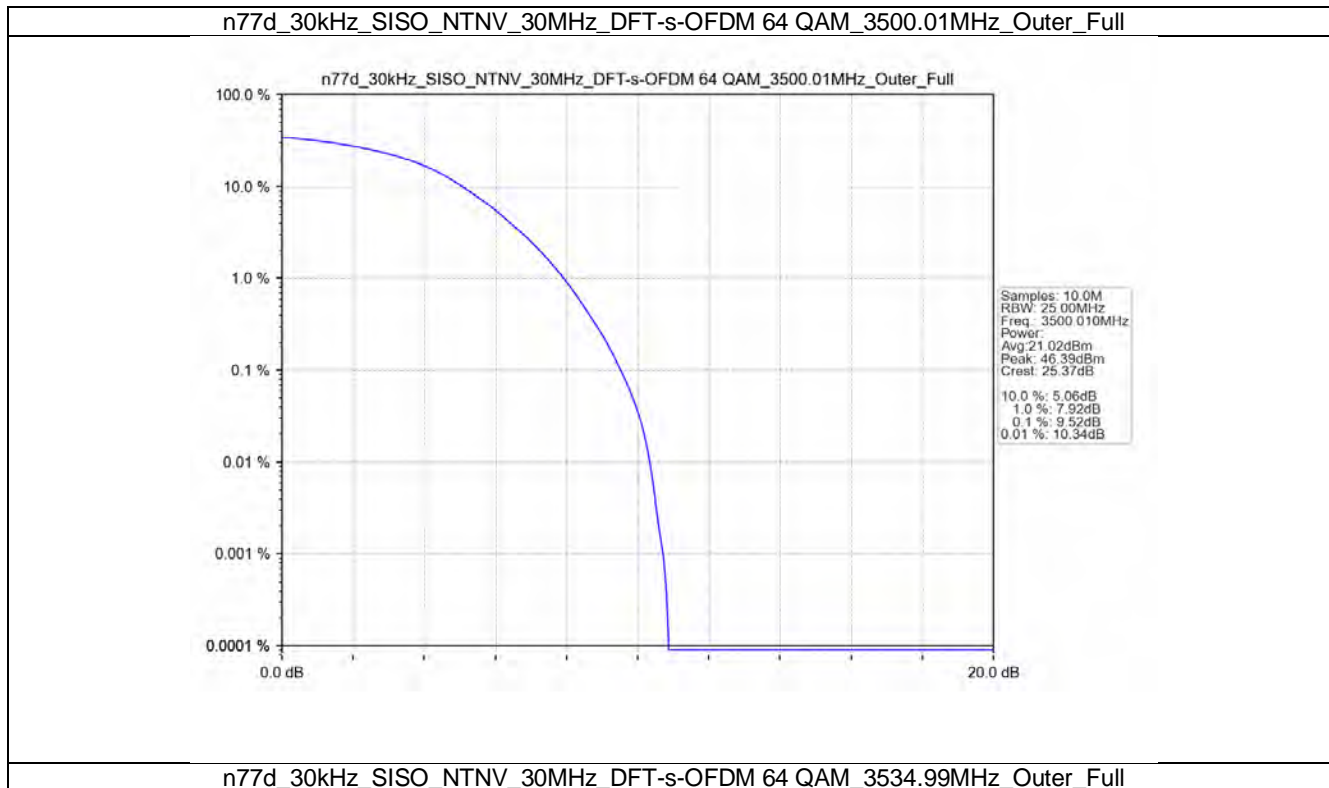
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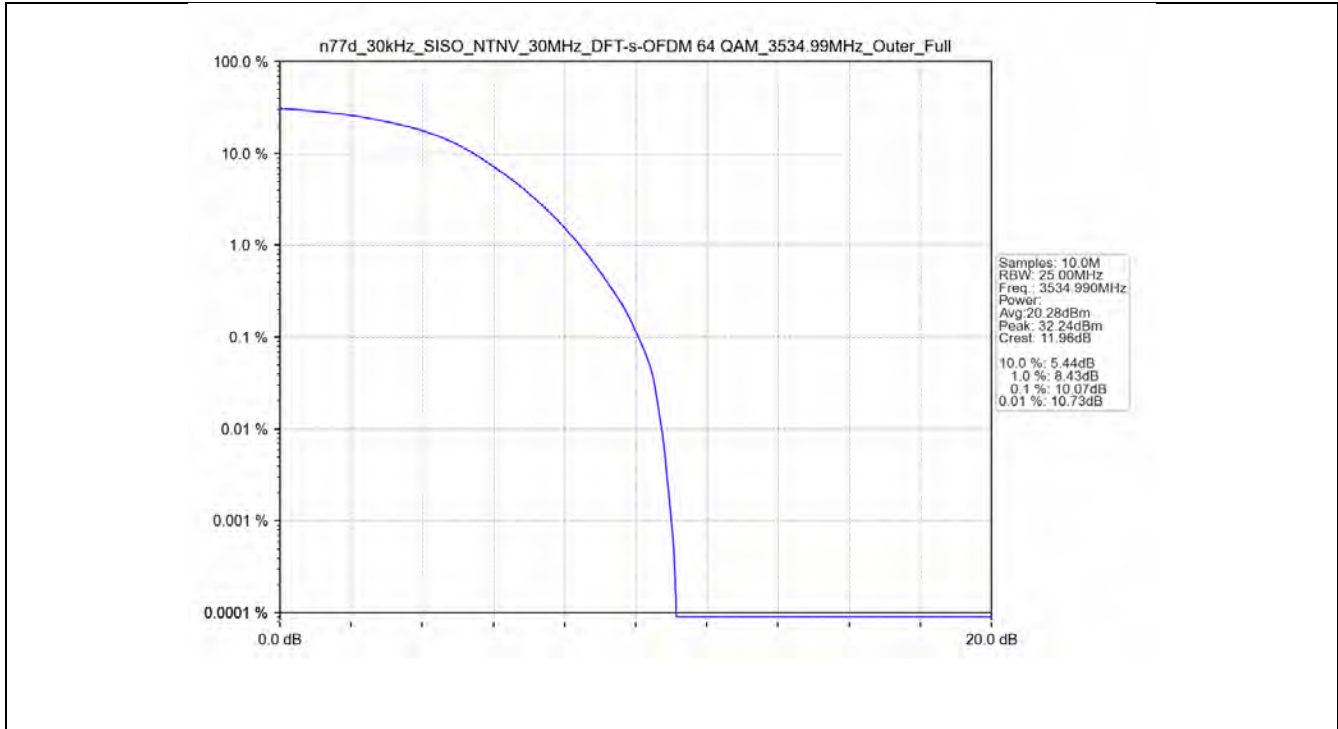


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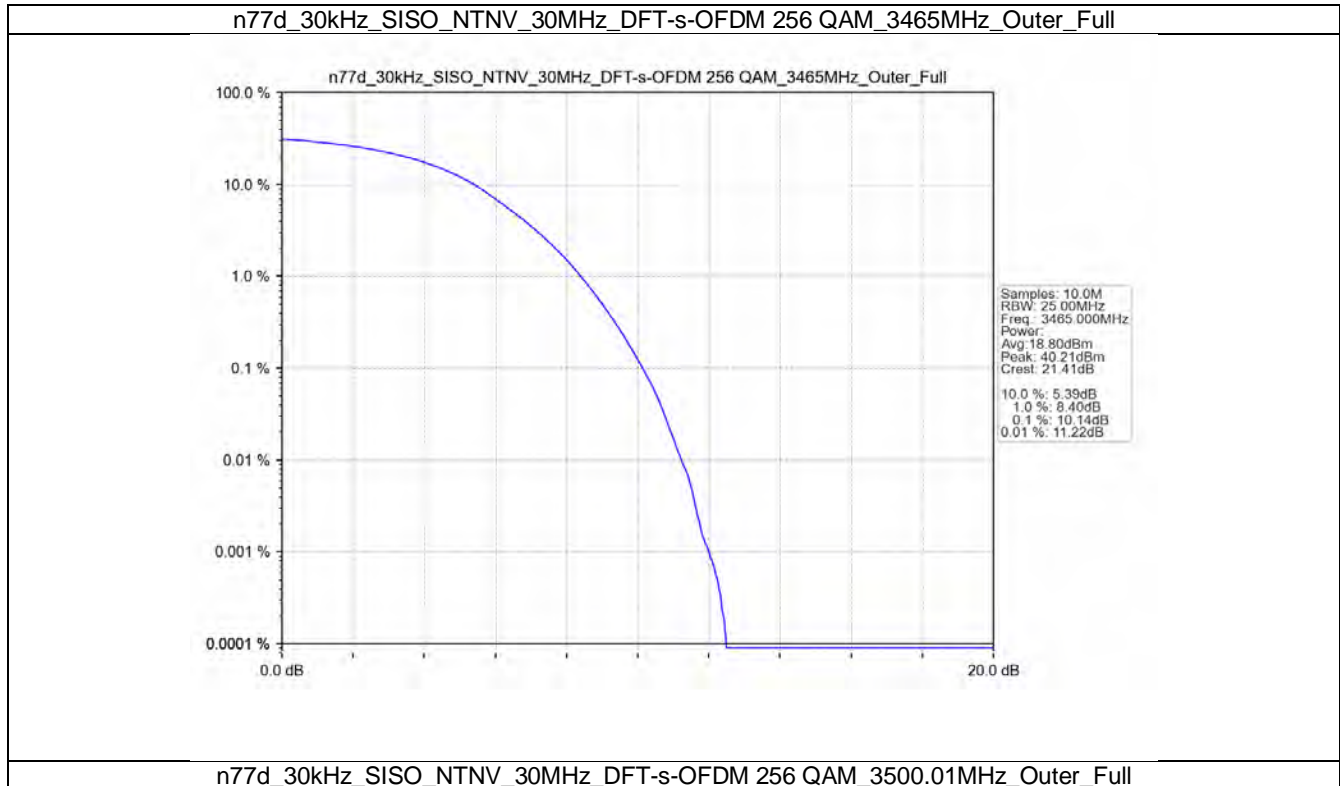


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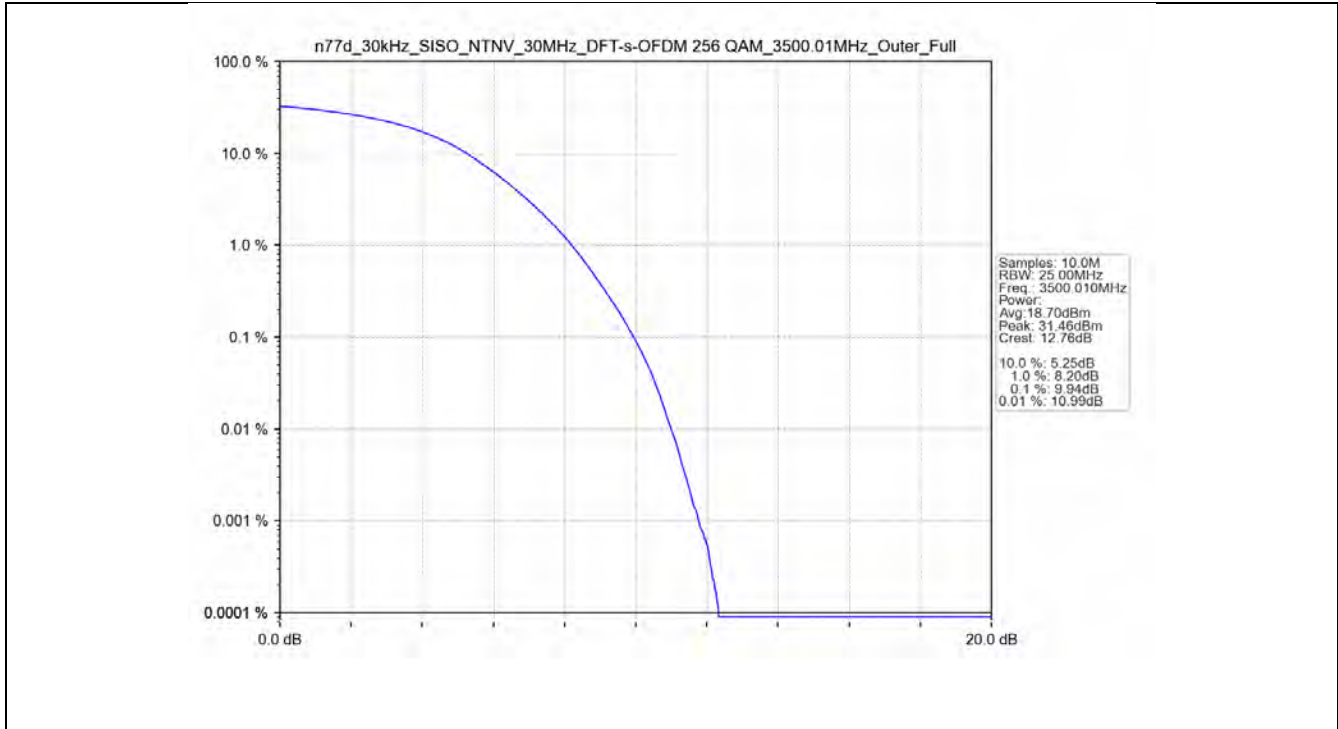


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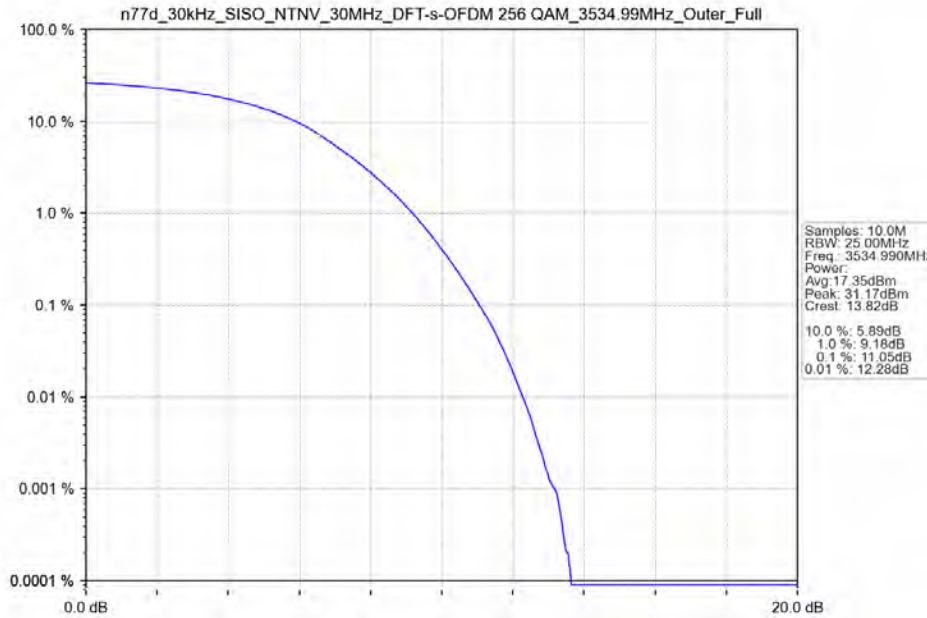
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n77d\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3465MHz\_Outer\_Full



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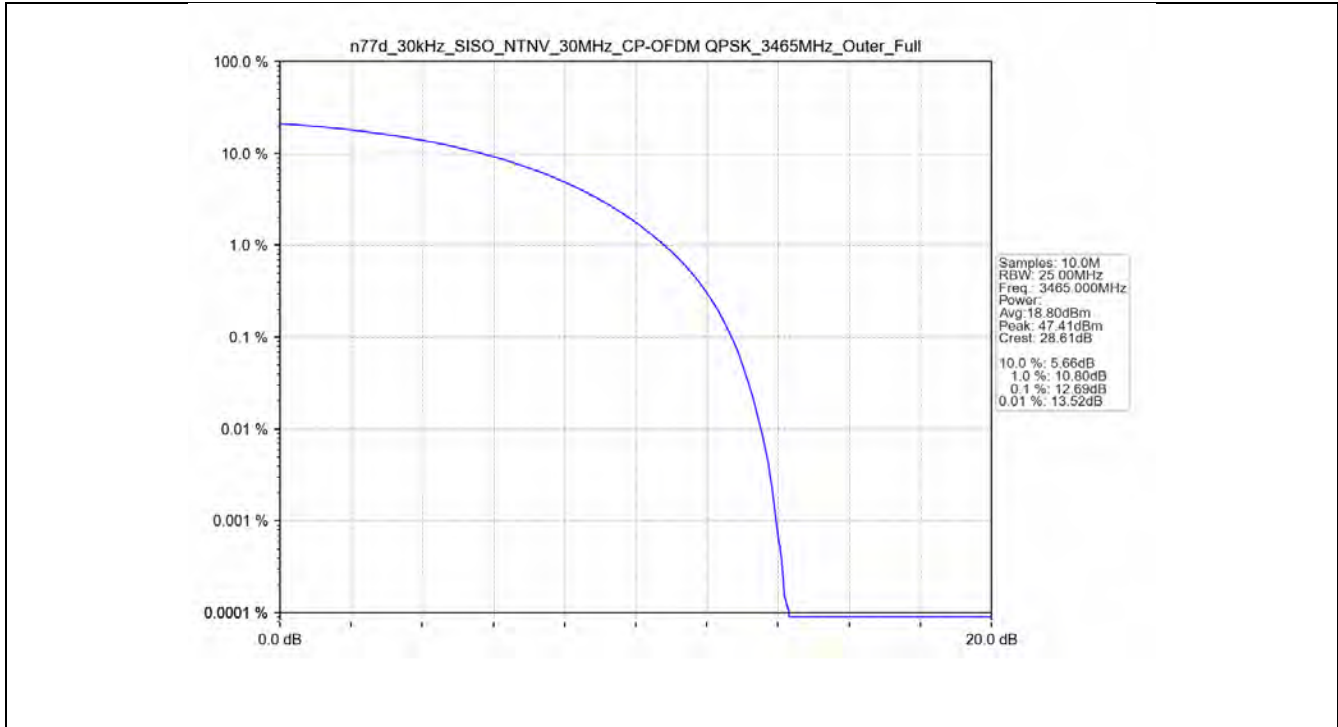


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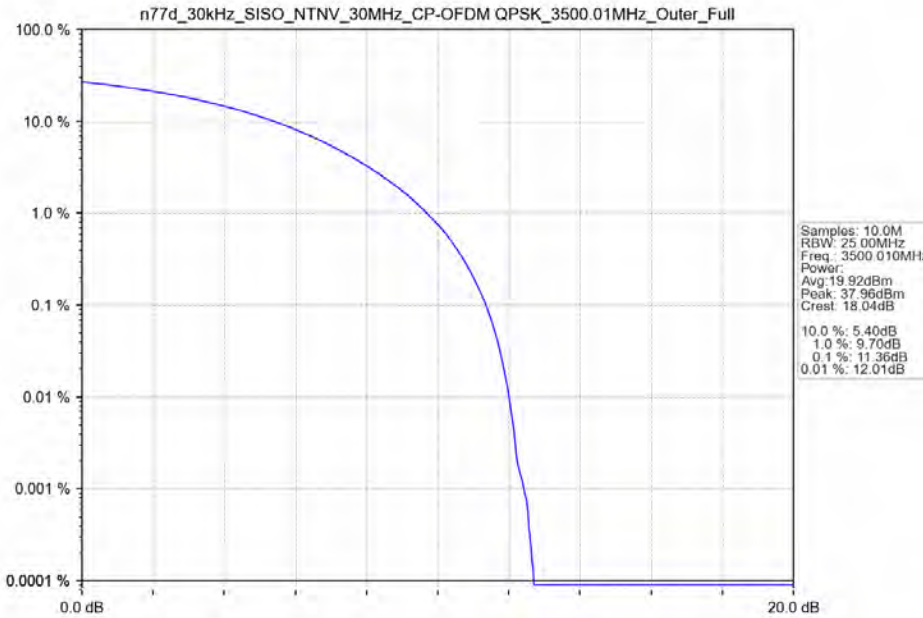
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n77d\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3534.99MHz\_Outer\_Full



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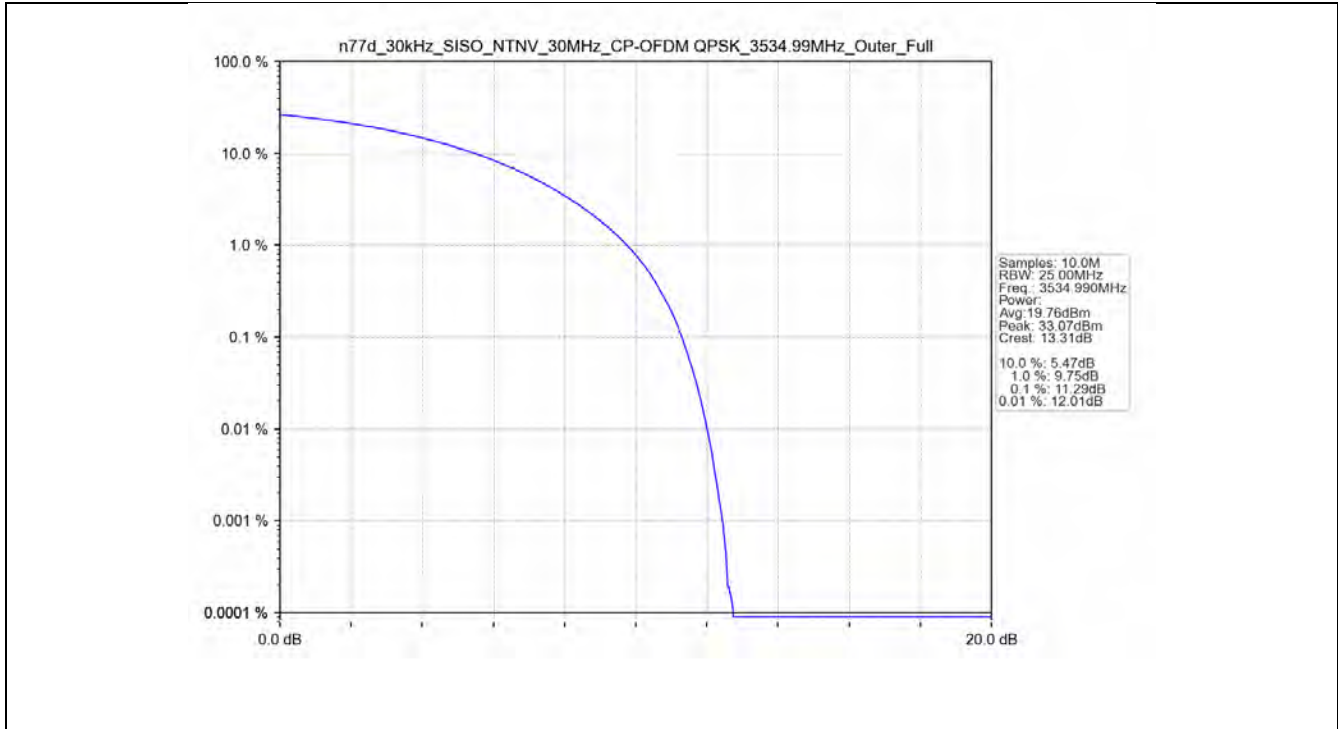


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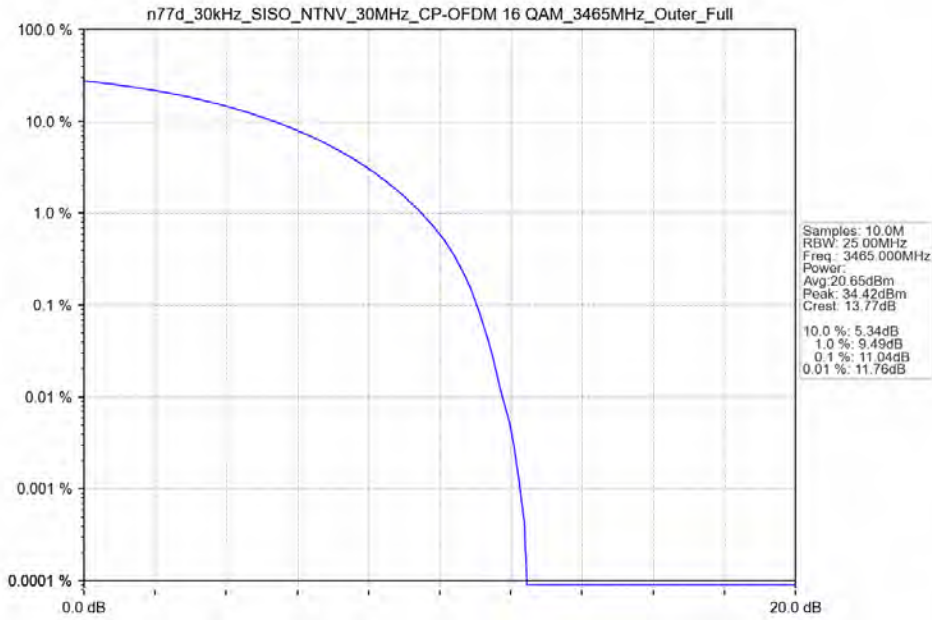
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n77d\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 16 QAM\_3500.01MHz\_Outer\_Full



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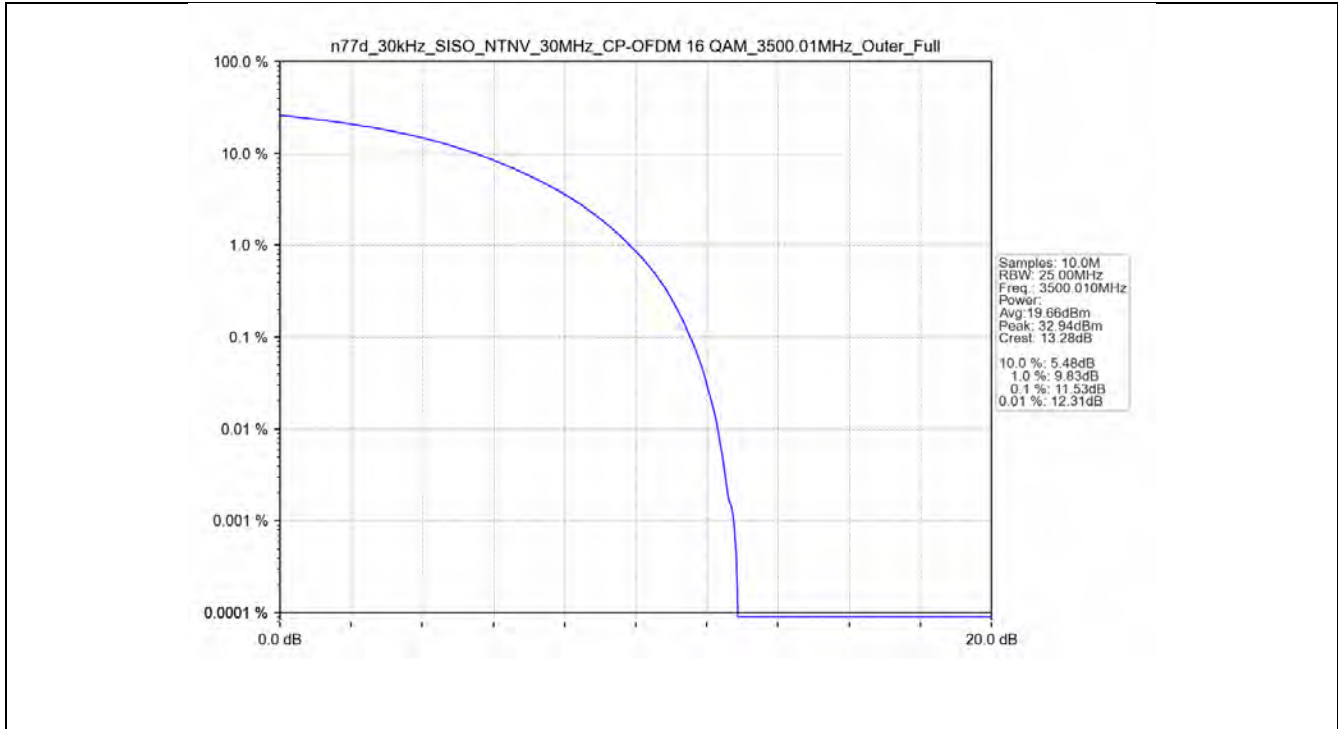


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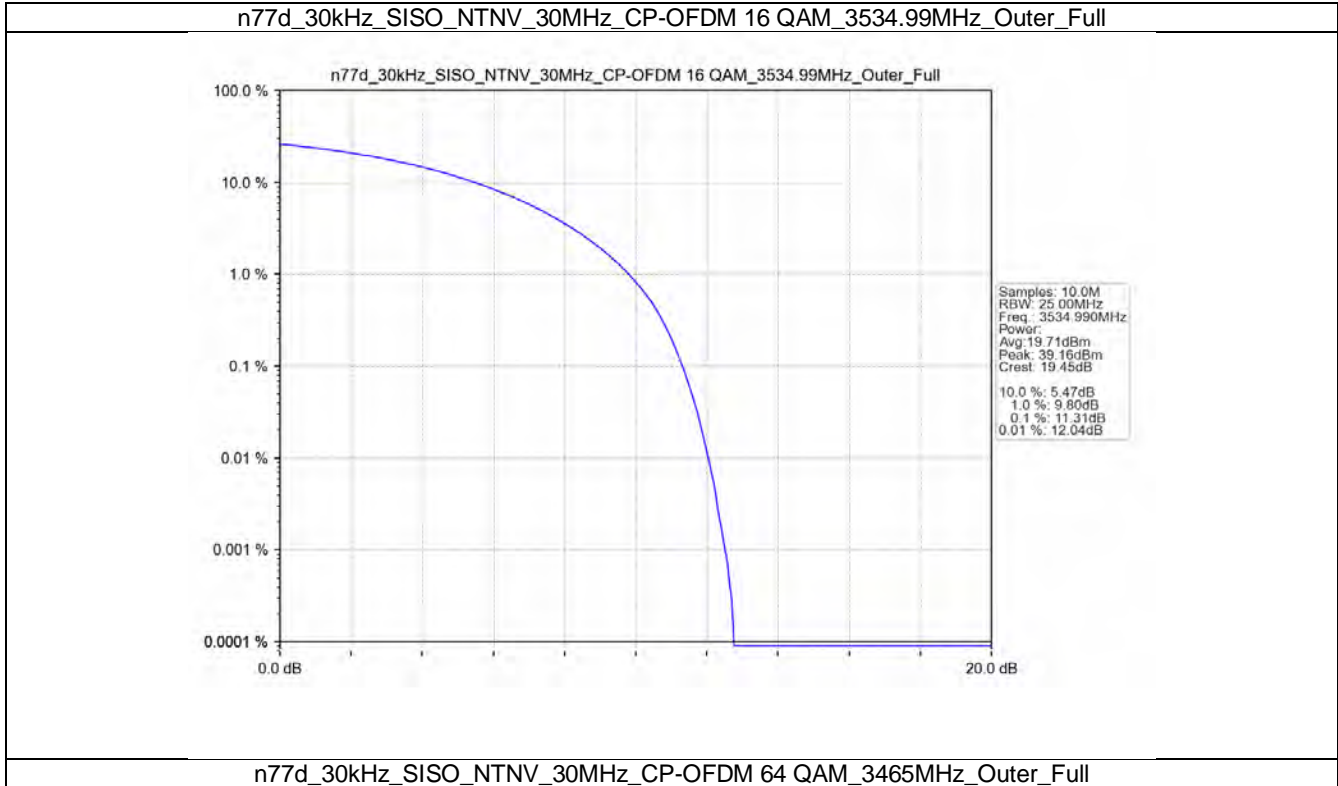


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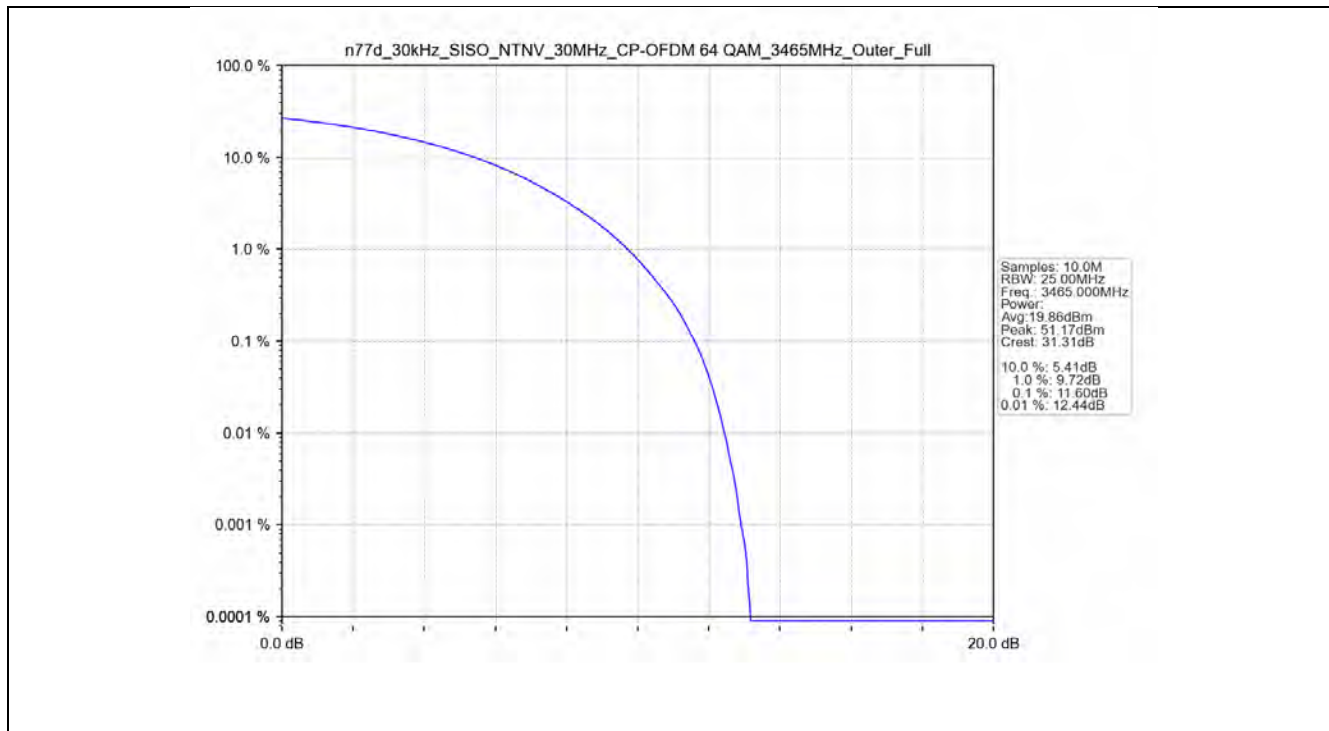
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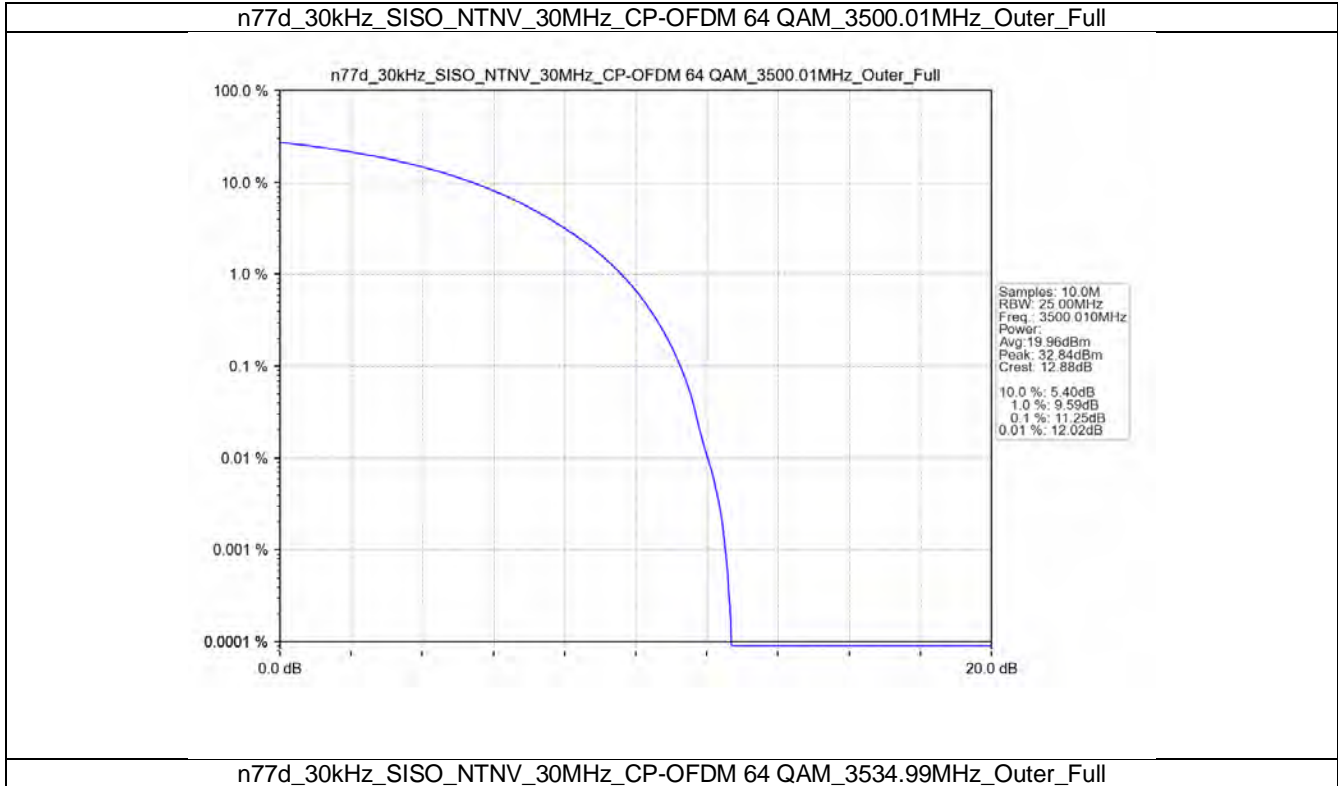


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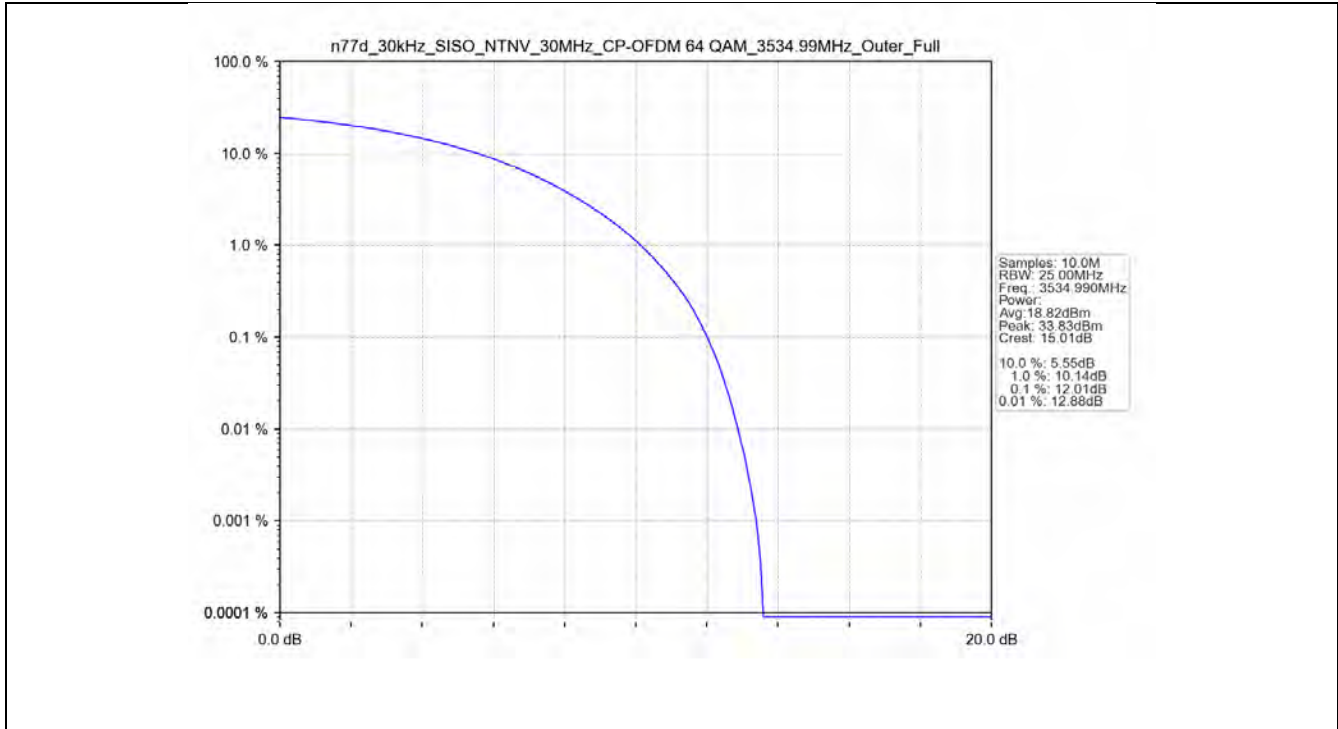


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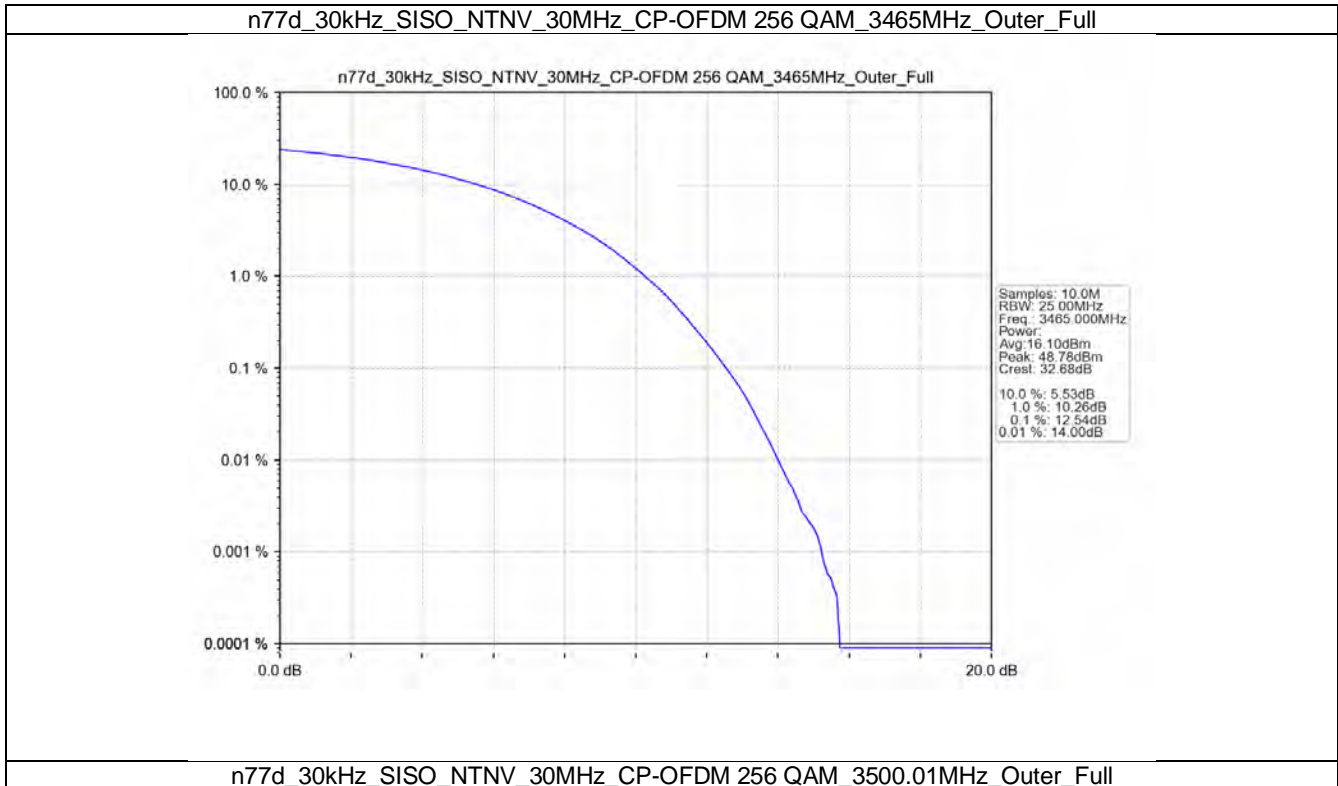


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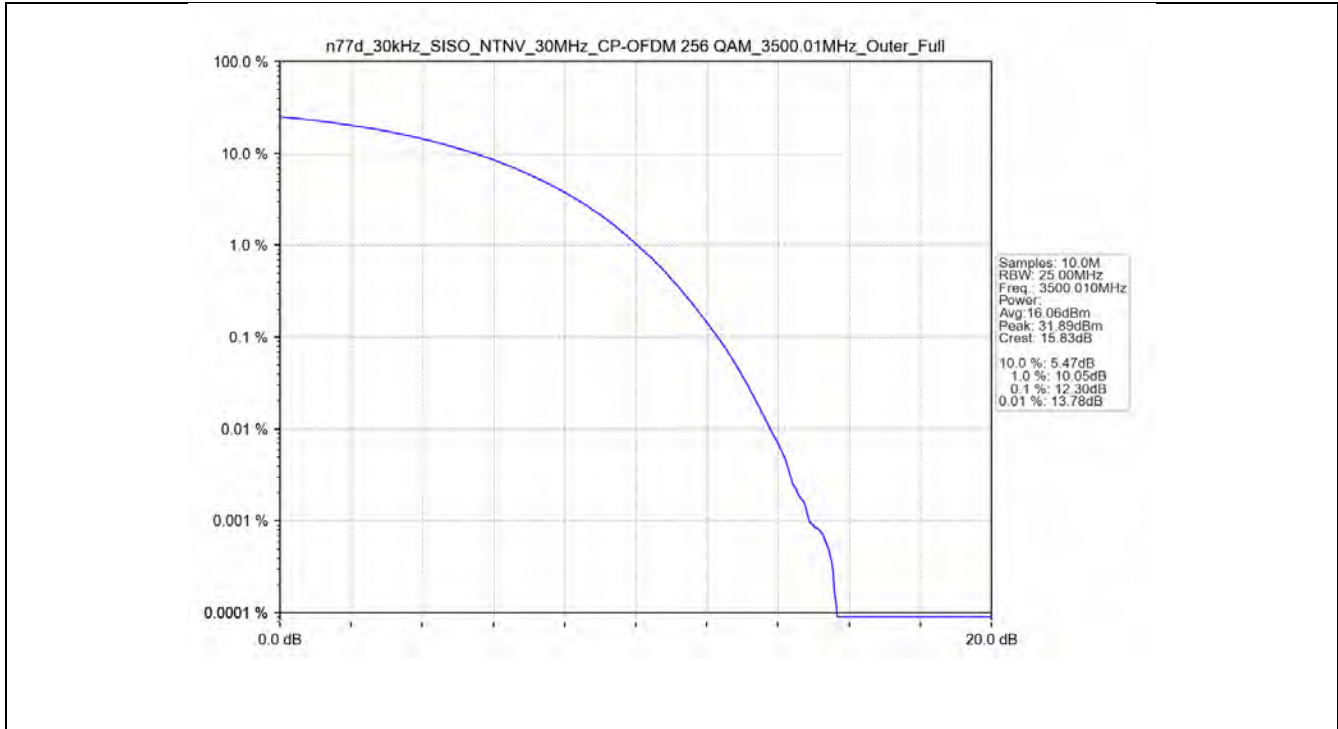


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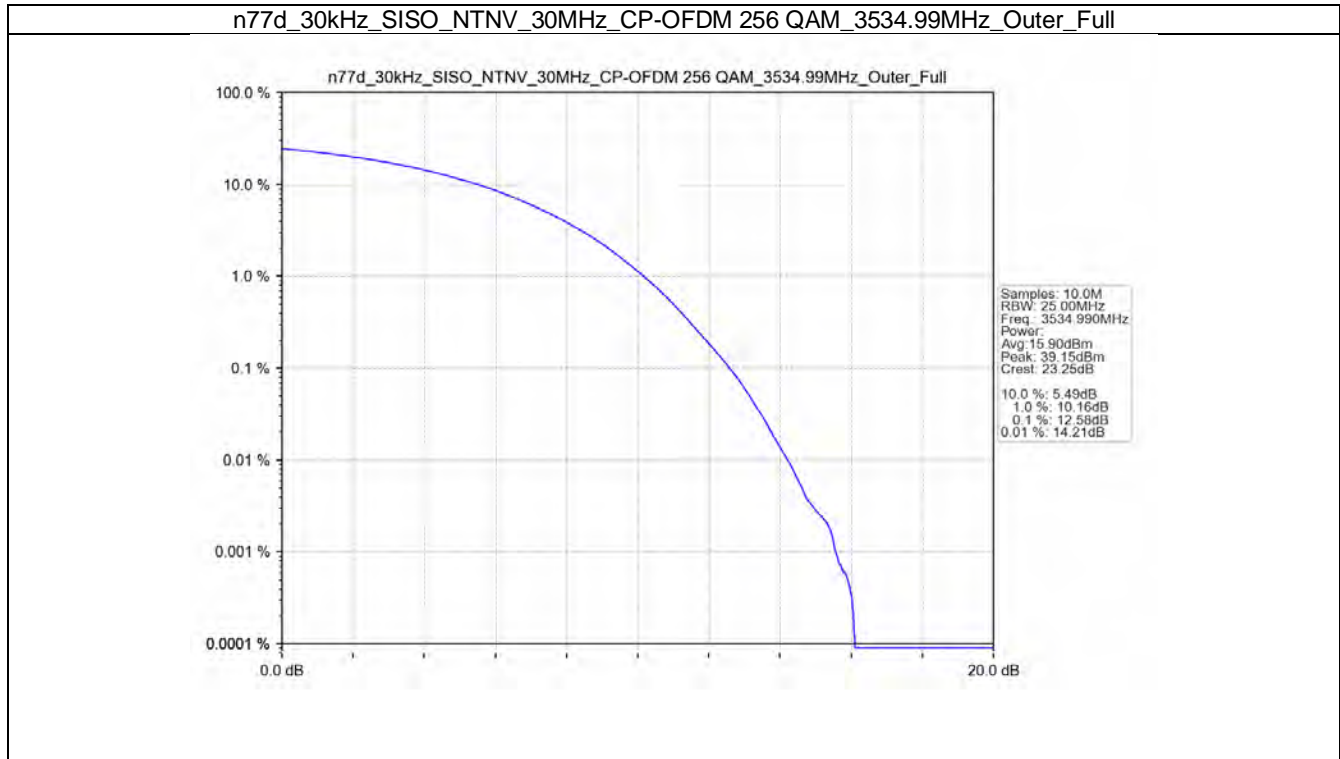


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## 4.3 30k\_SISO\_40MHz\_NTNV

### 4.3.1 Test Result

5G NR n77d SCS=30kHz SISO 40MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3470.01	Outer_Full	10.21	/	/	<=13	Pass
	3500.01	Outer_Full	9.27	/	/	<=13	Pass
	3529.98	Outer_Full	9.21	/	/	<=13	Pass
DFT-s-OFDM QPSK	3470.01	Outer_Full	9.28	/	/	<=13	Pass
	3500.01	Outer_Full	9.71	/	/	<=13	Pass
	3529.98	Outer_Full	9.99	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer_Full	11.21	/	/	<=13	Pass
	3500.01	Outer_Full	10.23	/	/	<=13	Pass
	3529.98	Outer_Full	11.32	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer_Full	10.49	/	/	<=13	Pass
	3500.01	Outer_Full	10.63	/	/	<=13	Pass
	3529.98	Outer_Full	11.08	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer_Full	10.33	/	/	<=13	Pass
	3500.01	Outer_Full	10.59	/	/	<=13	Pass
	3529.98	Outer_Full	10.79	/	/	<=13	Pass
CP-OFDM QPSK	3470.01	Outer_Full	11.39	/	/	<=13	Pass
	3500.01	Outer_Full	11.53	/	/	<=13	Pass
	3529.98	Outer_Full	12.60	/	/	<=13	Pass
CP-OFDM 16 QAM	3470.01	Outer_Full	12.34	/	/	<=13	Pass
	3500.01	Outer_Full	12.63	/	/	<=13	Pass
	3529.98	Outer_Full	11.50	/	/	<=13	Pass
CP-OFDM 64 QAM	3470.01	Outer_Full	11.59	/	/	<=13	Pass
	3500.01	Outer_Full	11.79	/	/	<=13	Pass
	3529.98	Outer_Full	11.89	/	/	<=13	Pass
CP-OFDM 256 QAM	3470.01	Outer_Full	11.93	/	/	<=13	Pass
	3500.01	Outer_Full	12.56	/	/	<=13	Pass
	3529.98	Outer_Full	12.20	/	/	<=13	Pass



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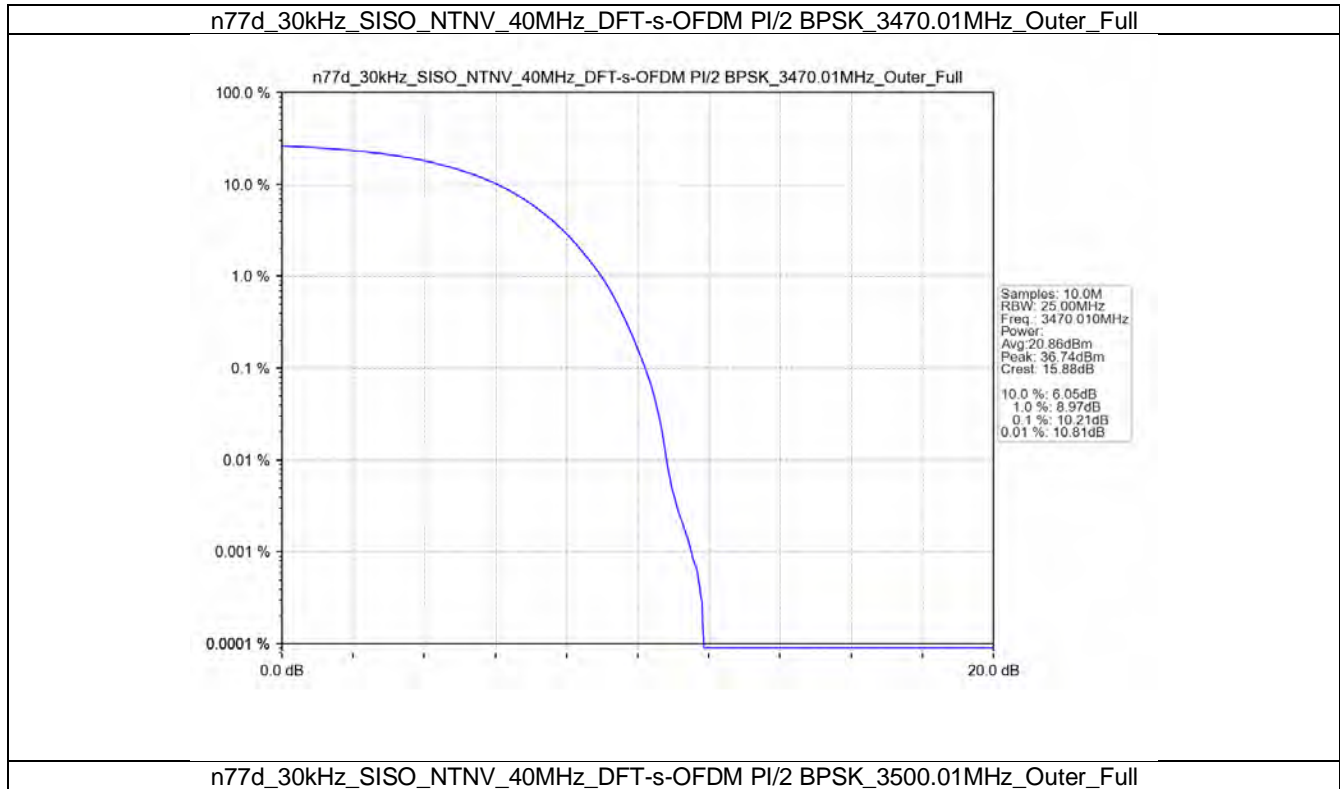


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4.3.2 Test Graph



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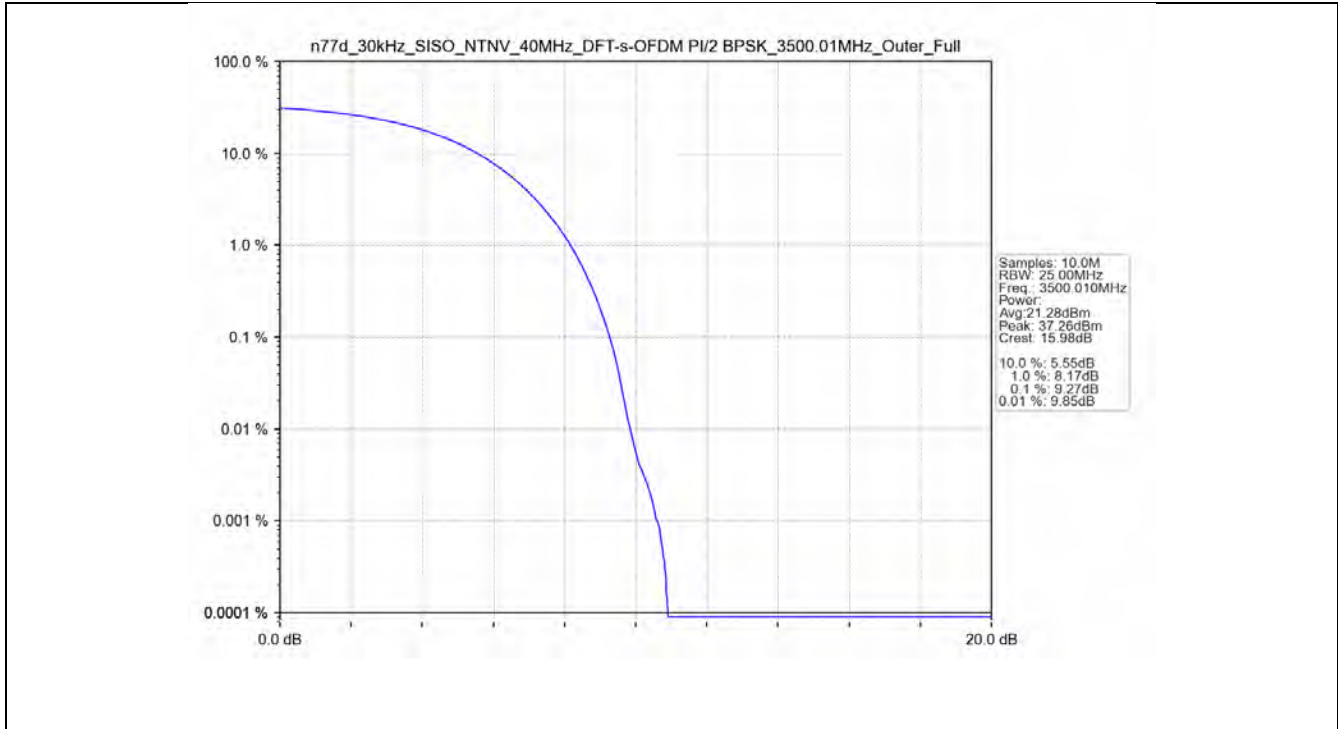


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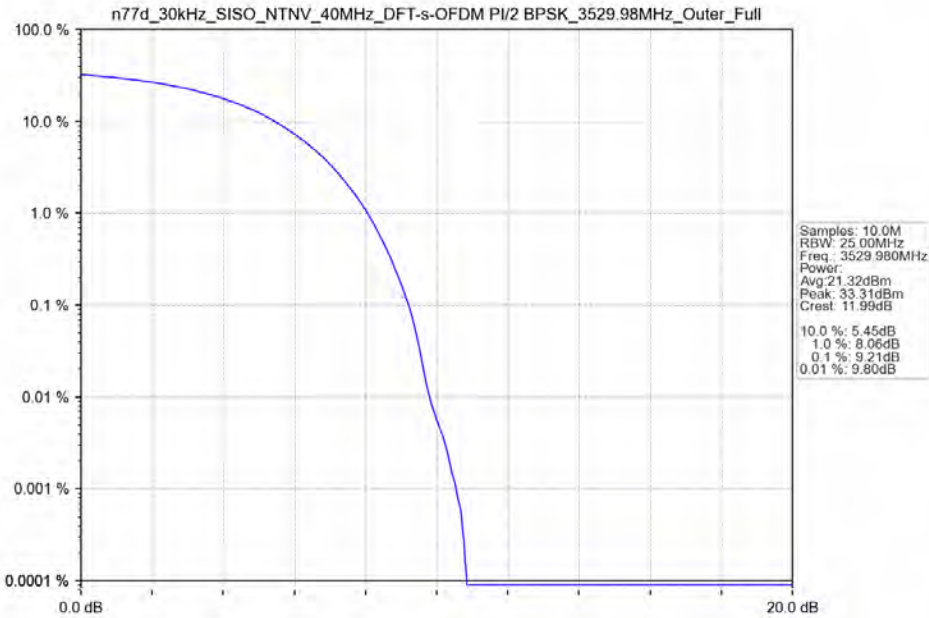
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n77d\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_3470.01MHz\_Outer\_Full



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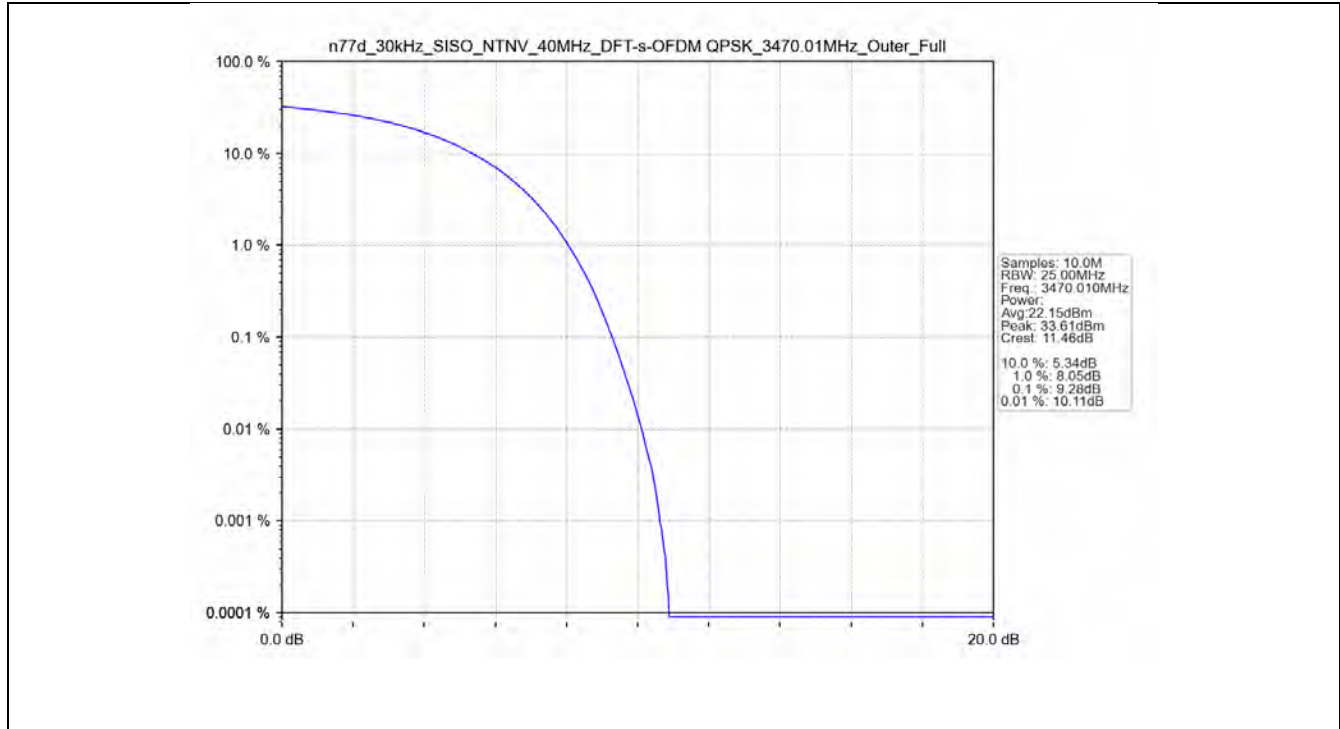


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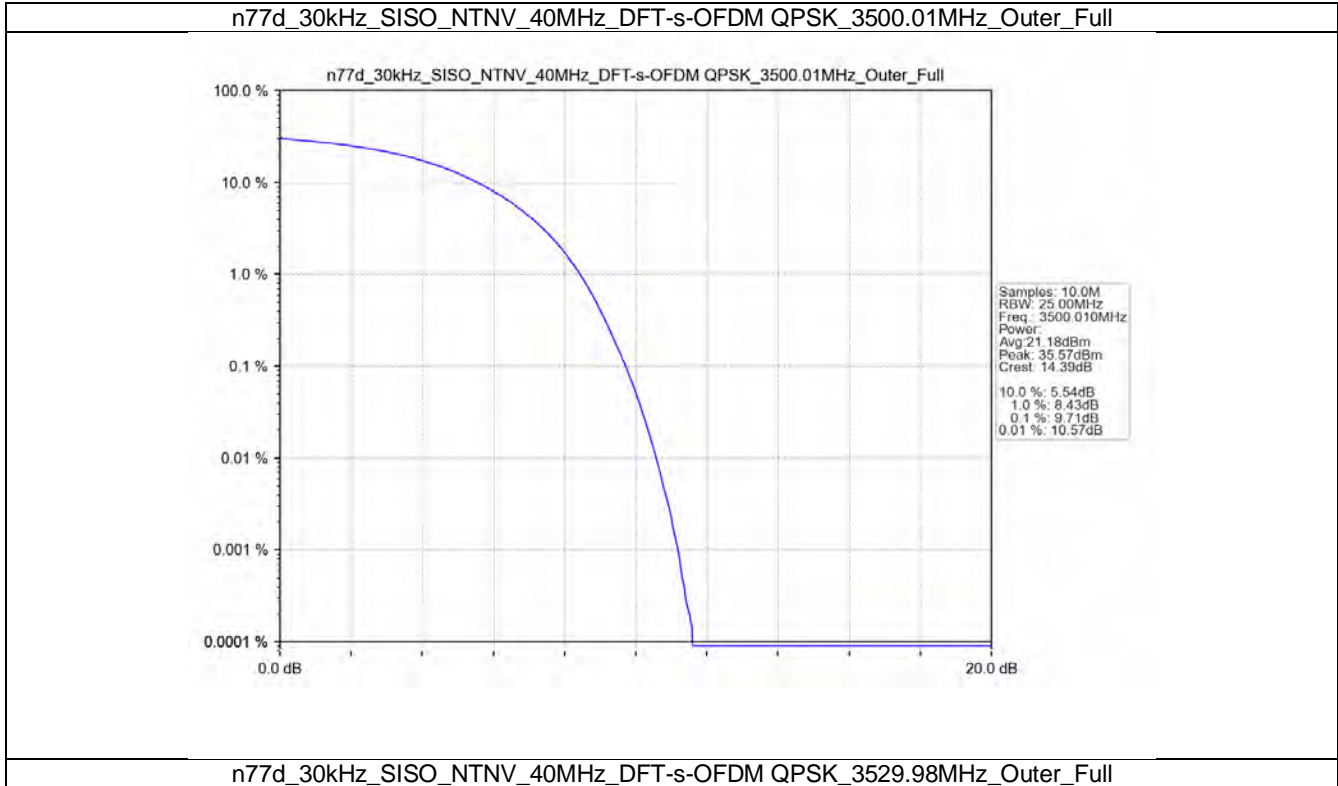


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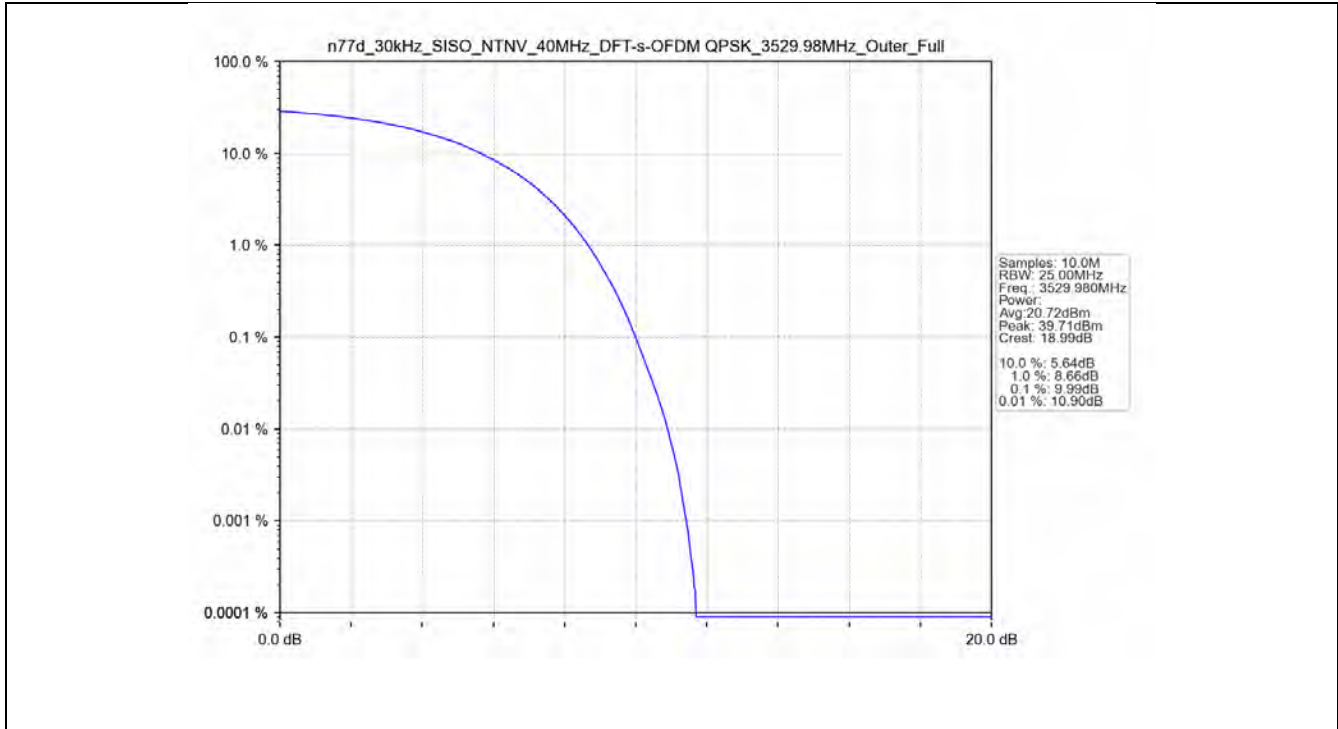


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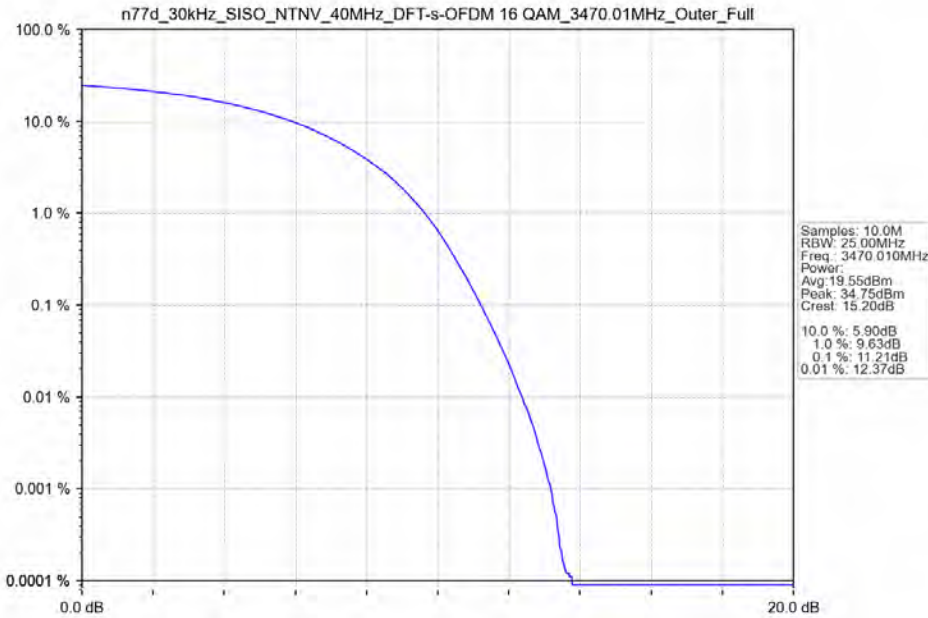
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n77d\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 16 QAM\_3500.01MHz\_Outer\_Full



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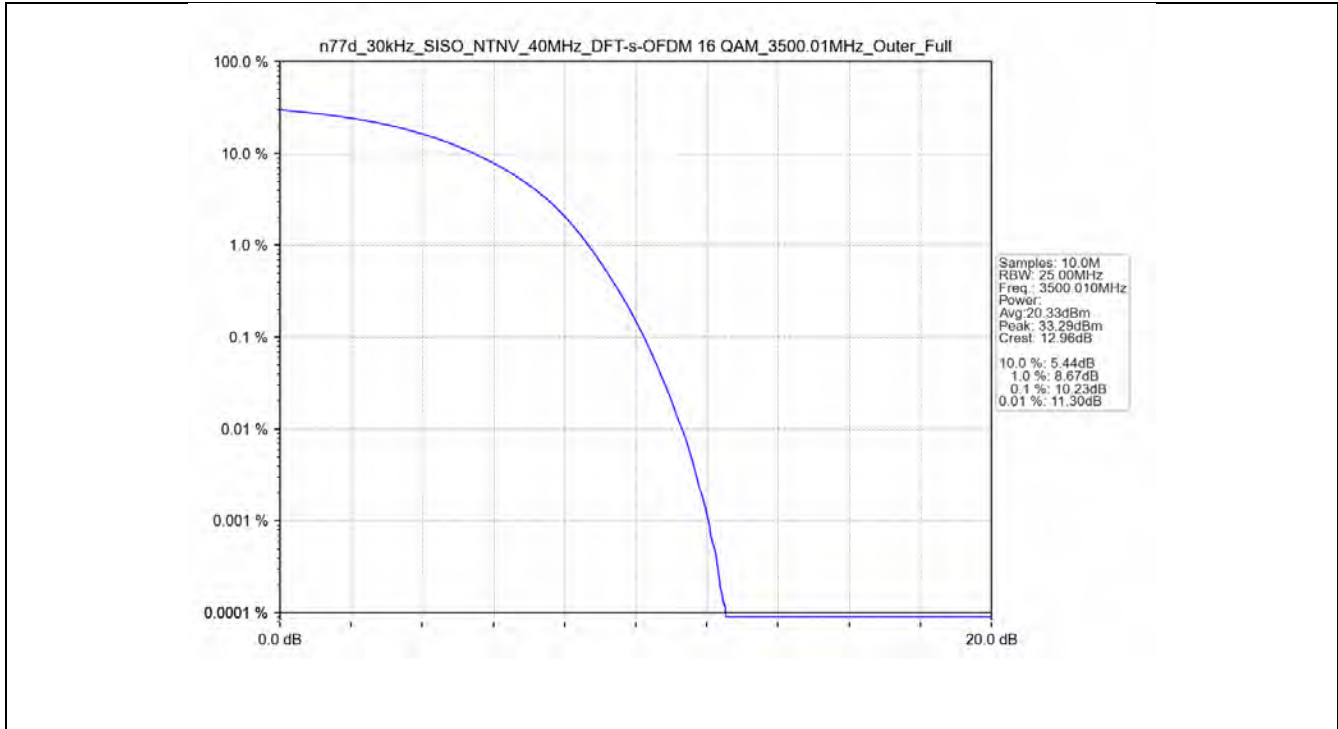


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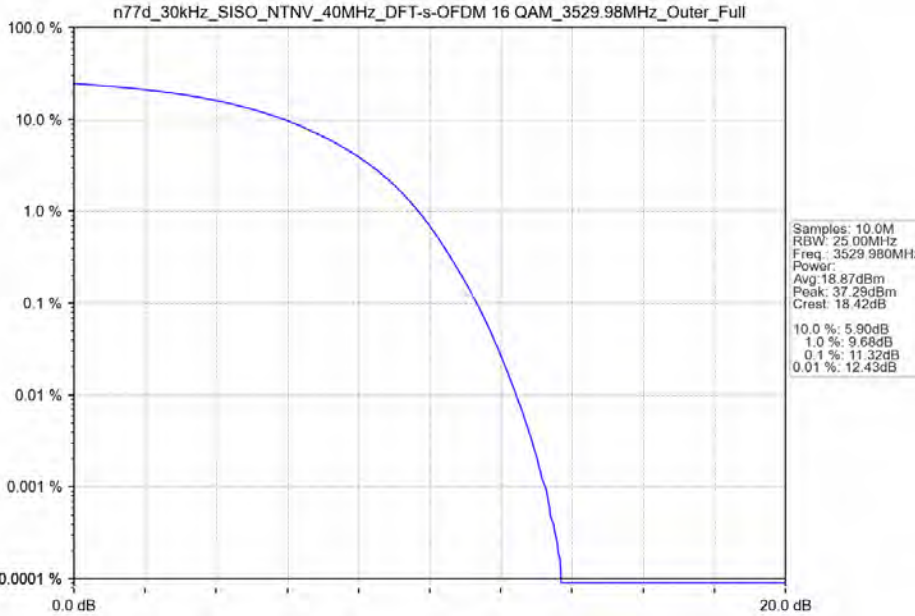
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n77d\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 16 QAM\_3529.98MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 64 QAM\_3470.01MHz\_Outer\_Full



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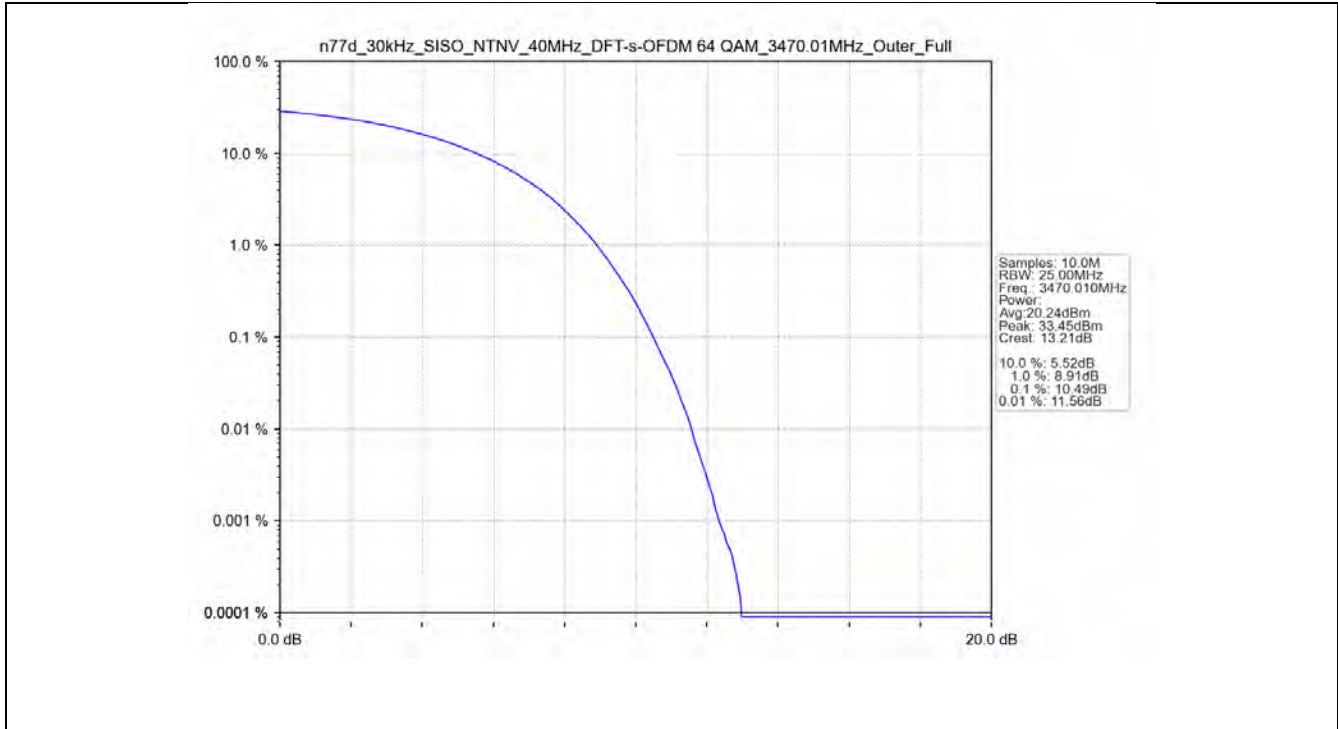


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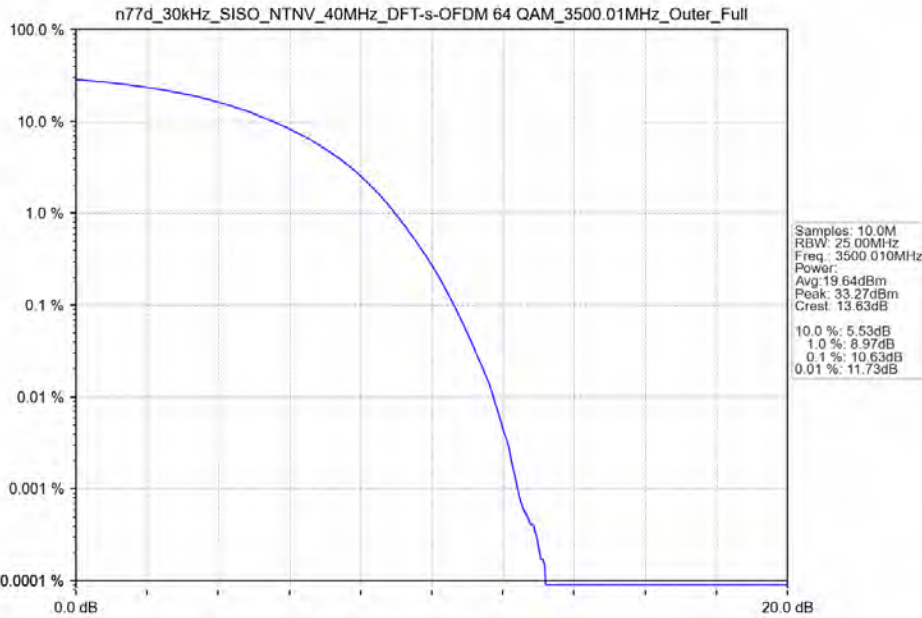
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n77d\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_64\_QAM\_3529.98MHz\_Outer\_Full



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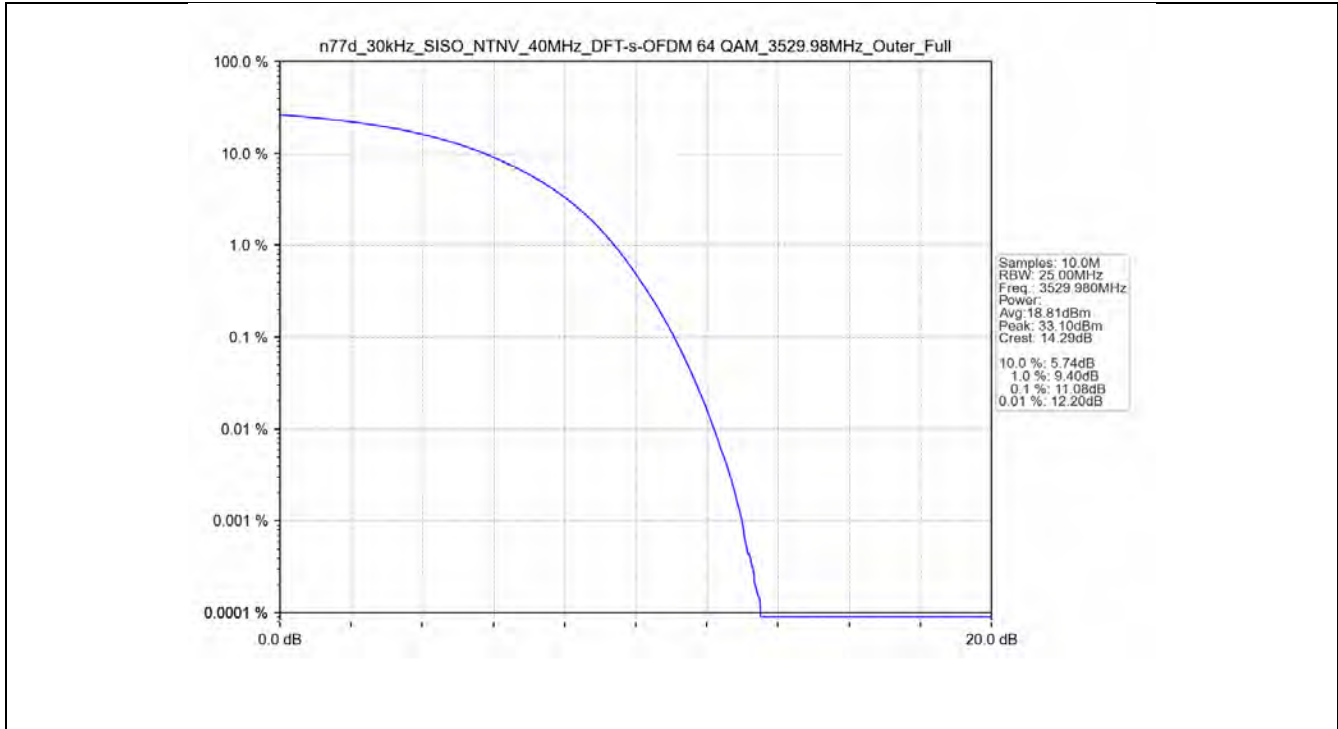


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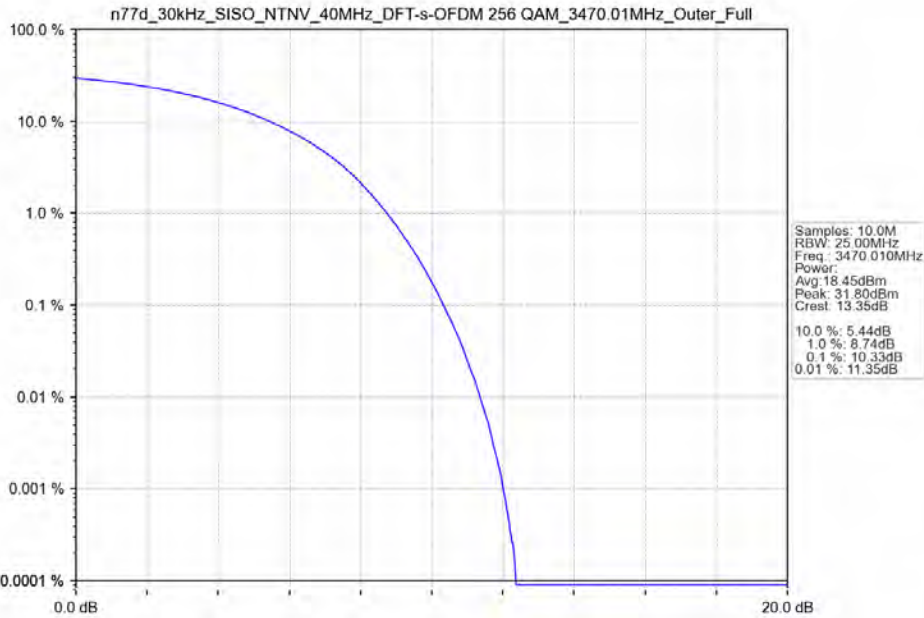
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n77d\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_3470.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_256\_QAM\_3500.01MHz\_Outer\_Full



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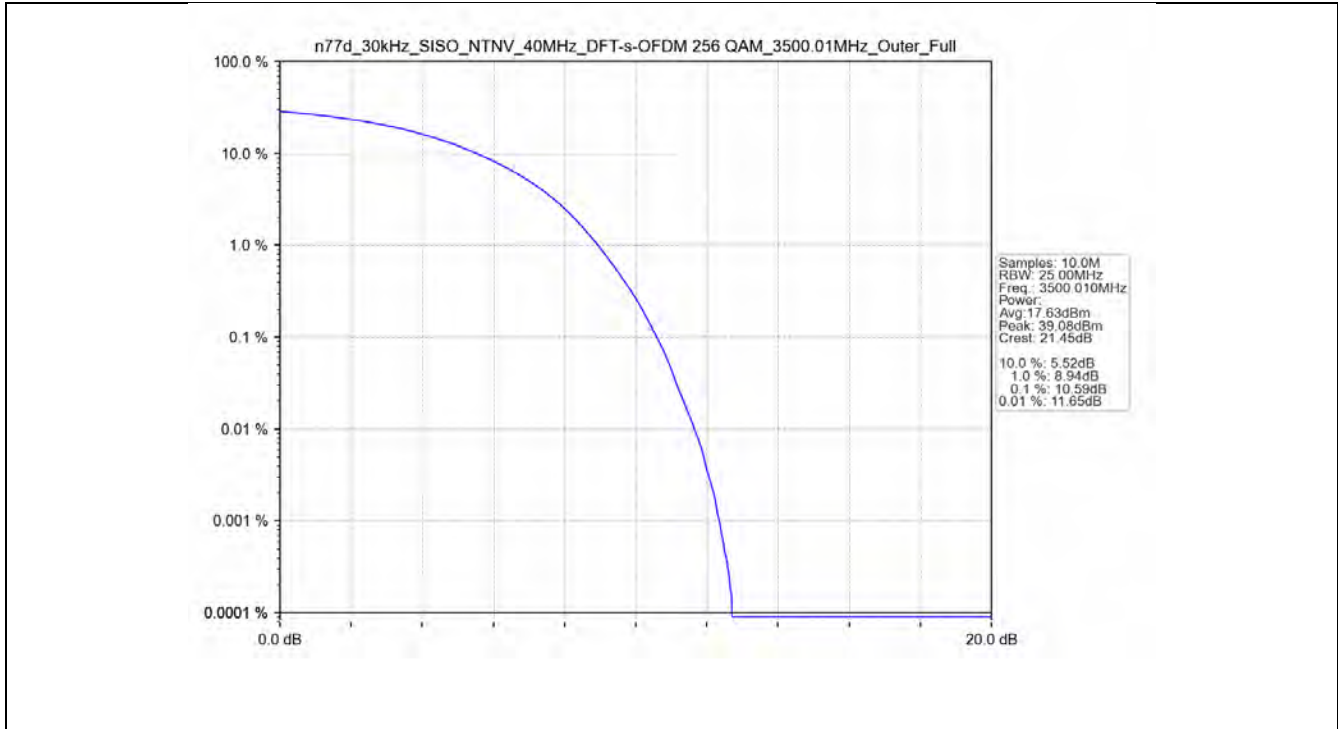


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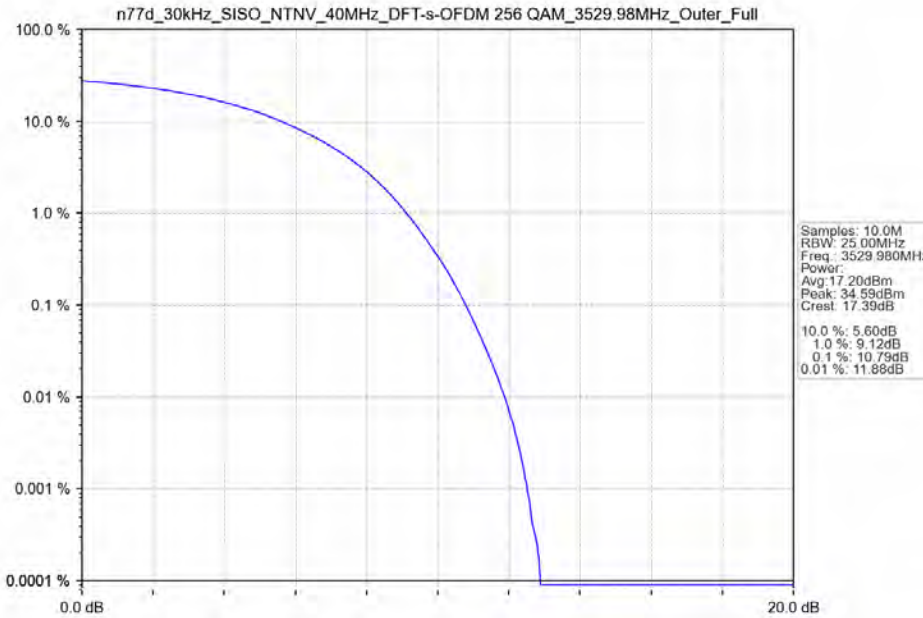
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n77d\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Outer\_Full



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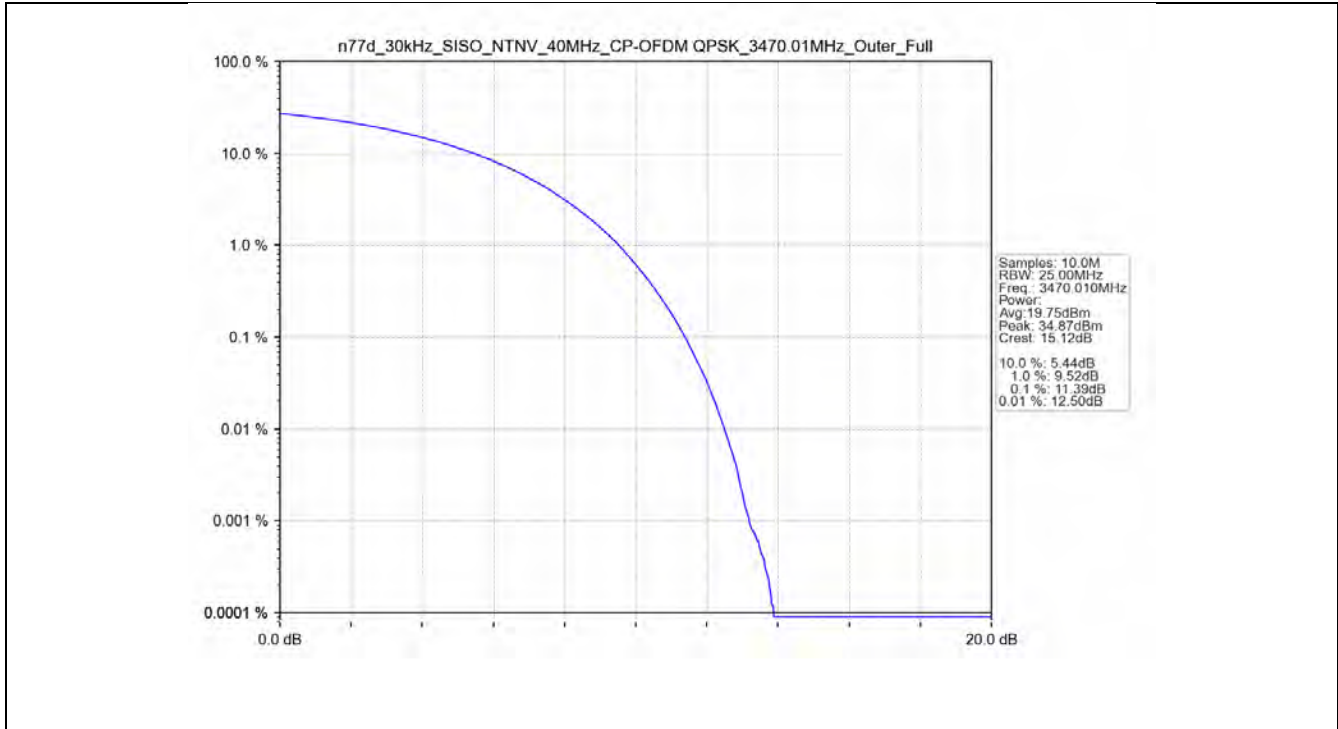


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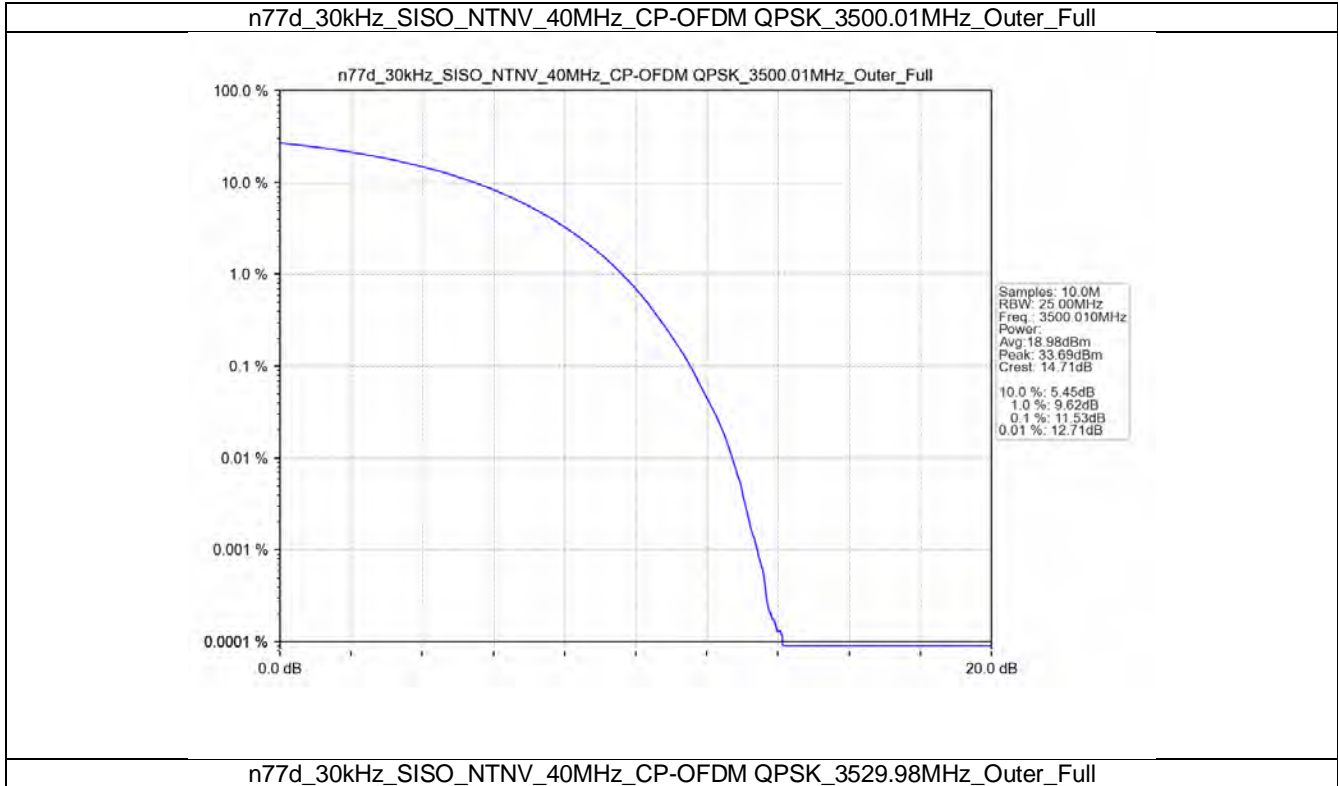


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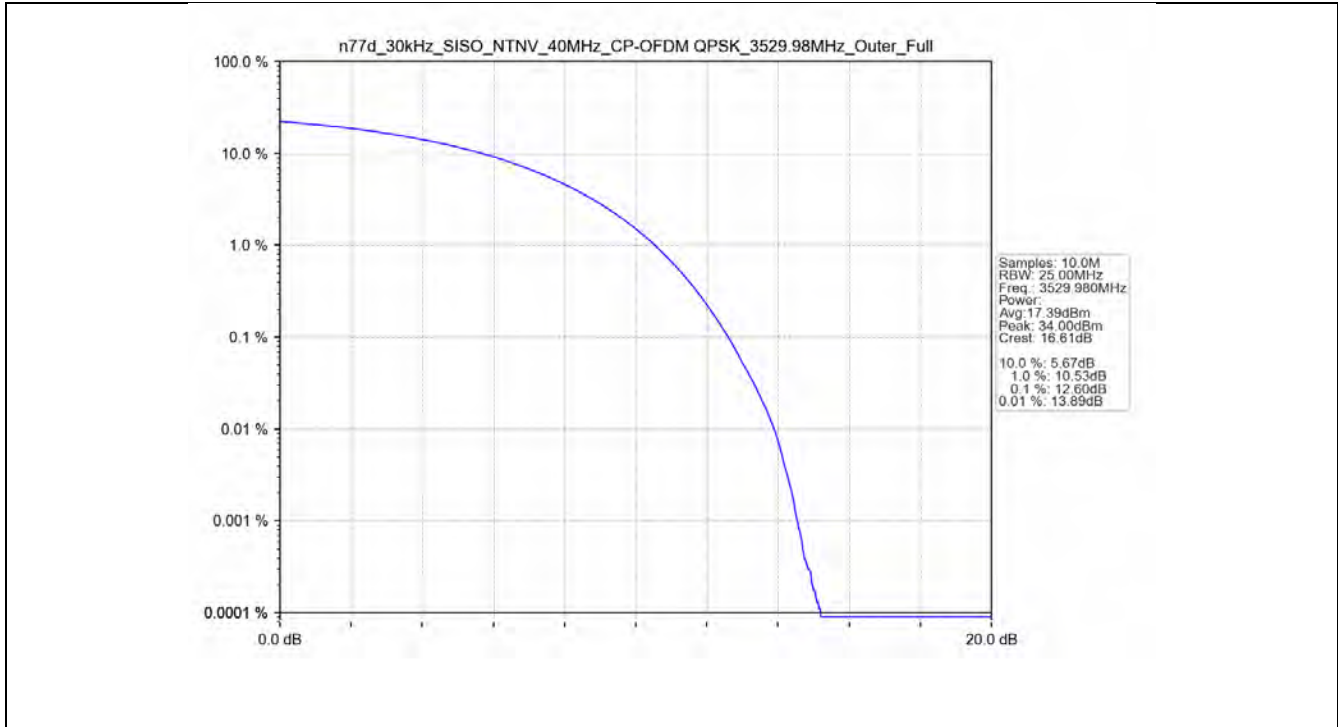


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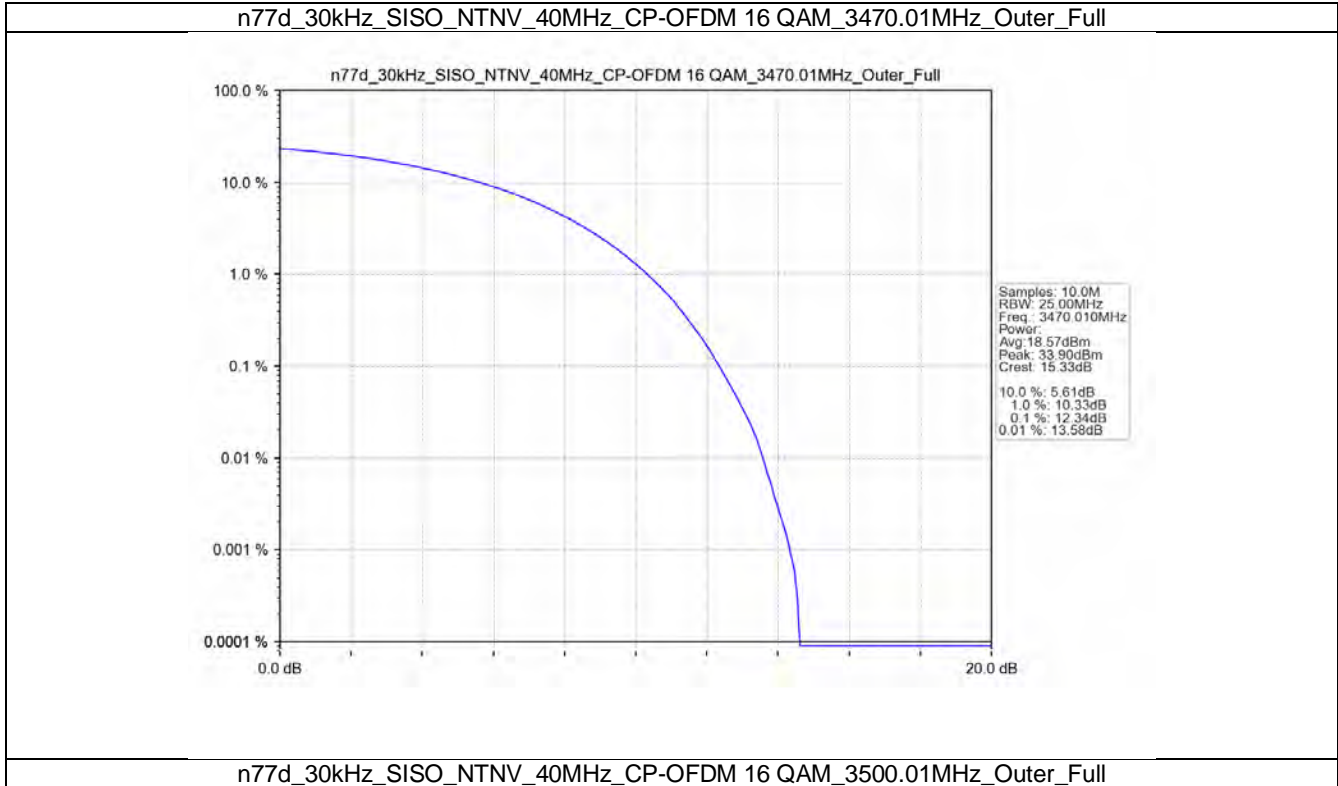


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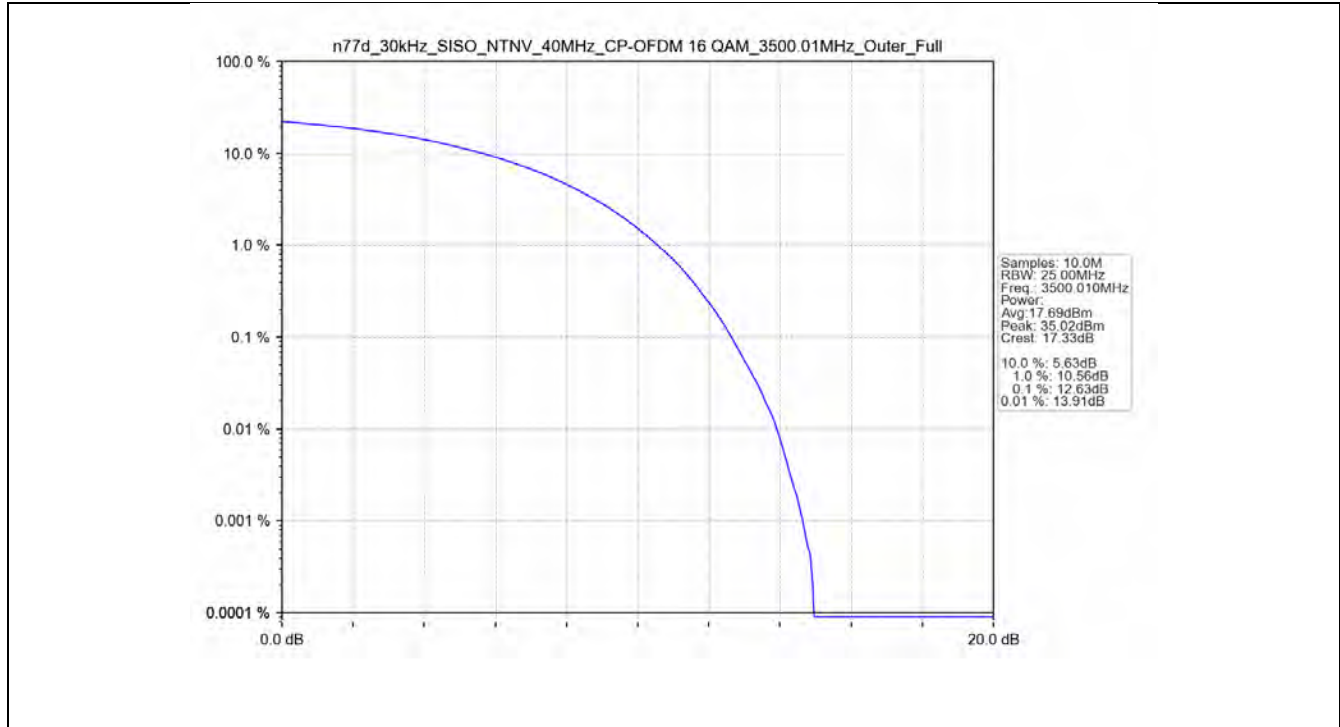


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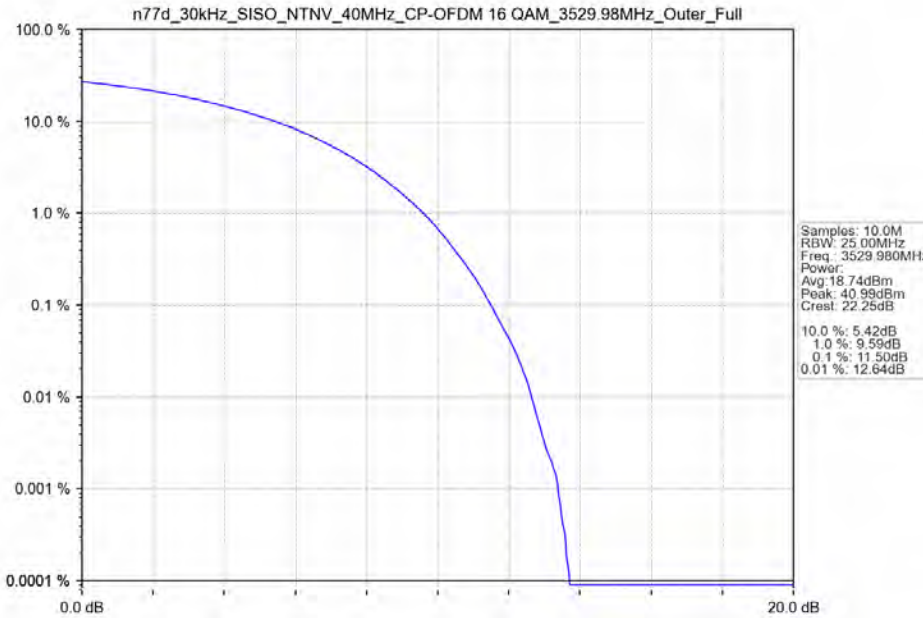
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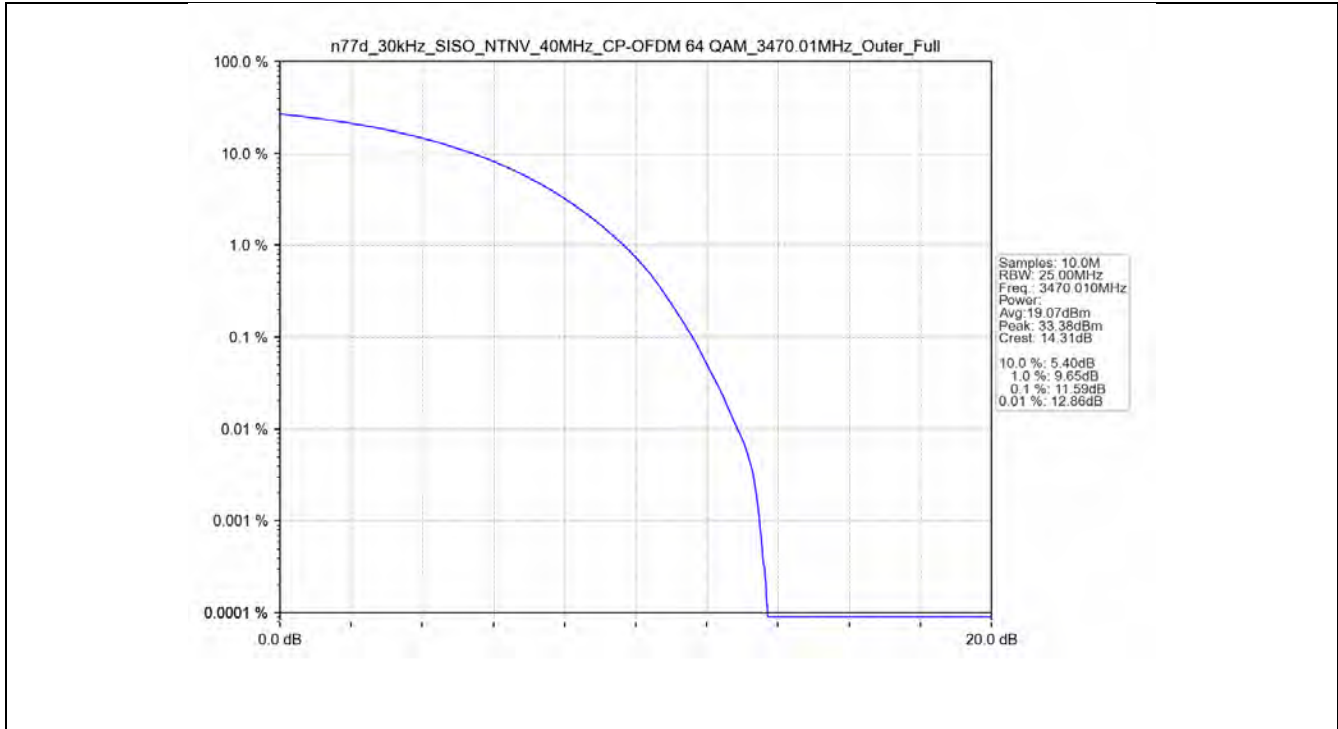


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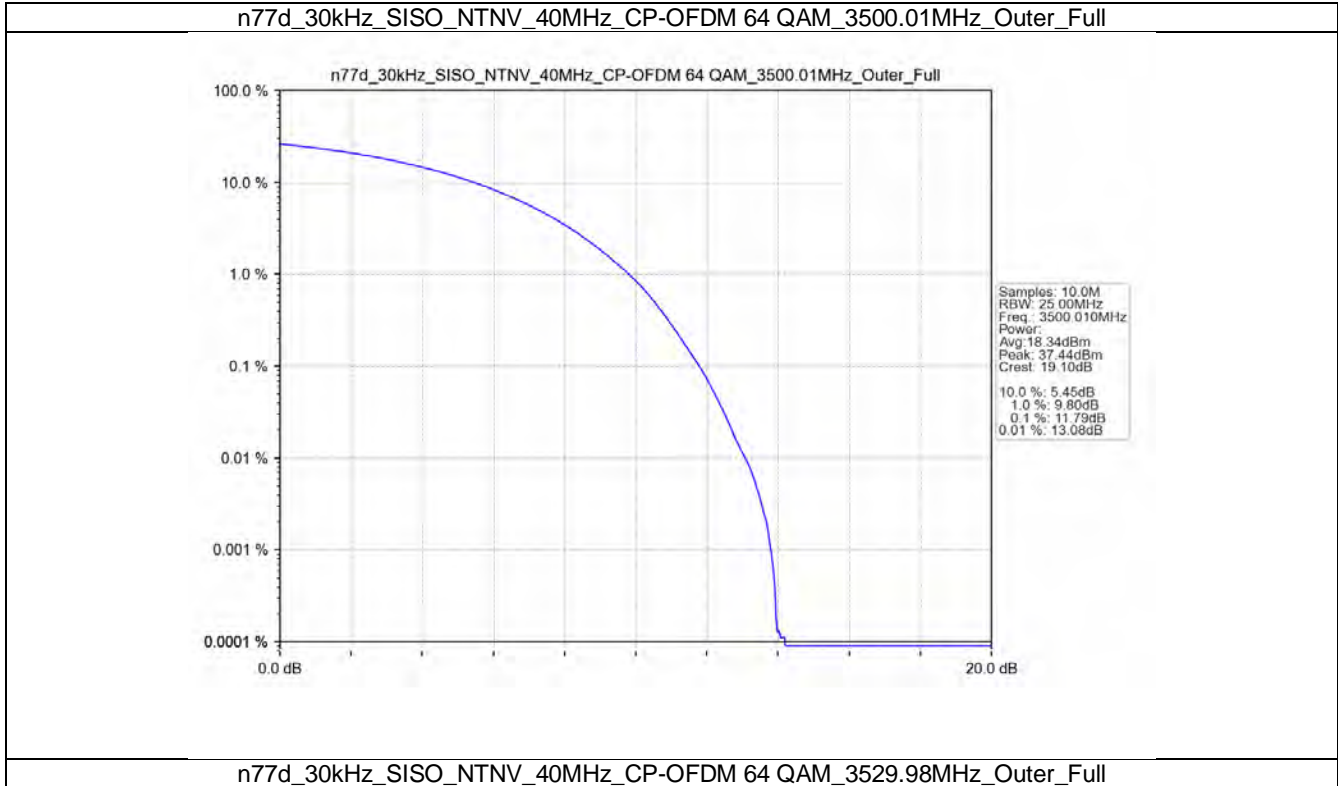


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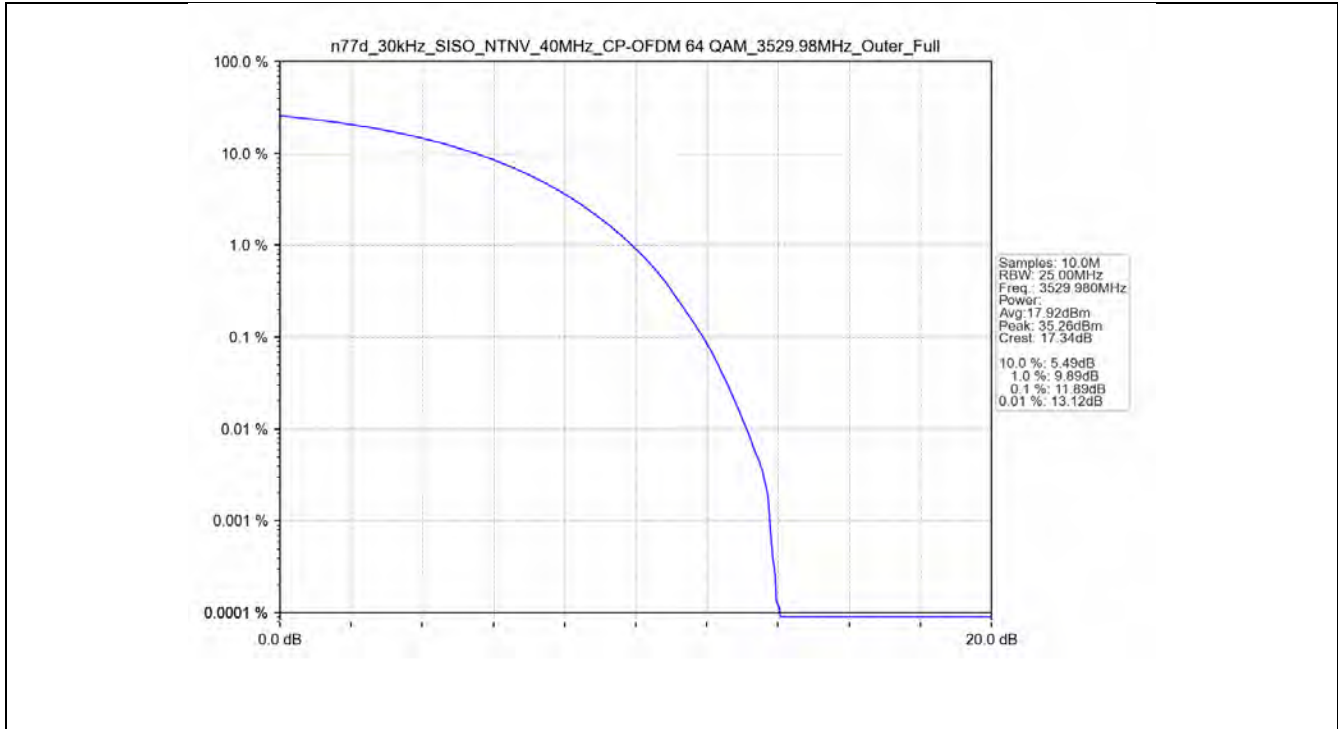


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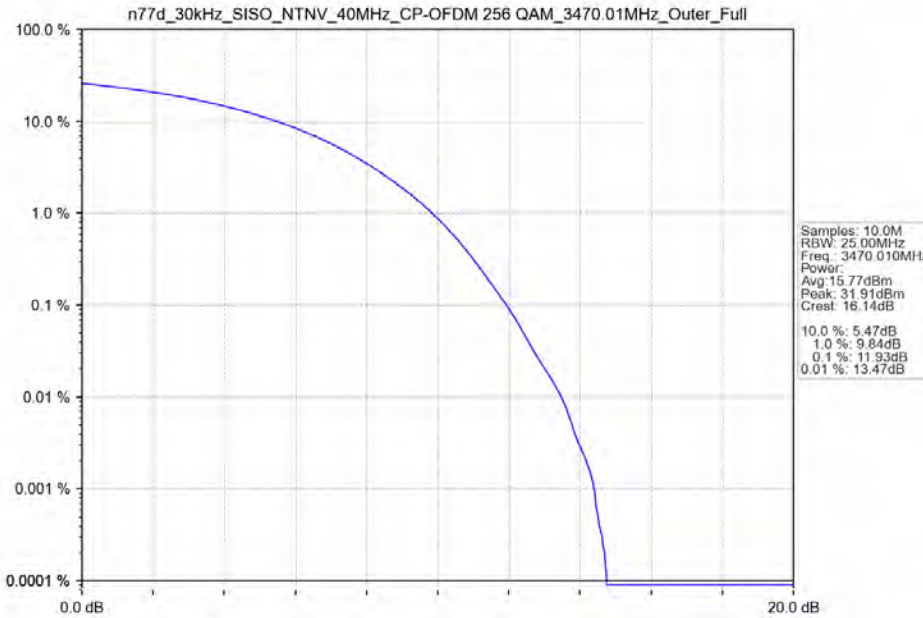
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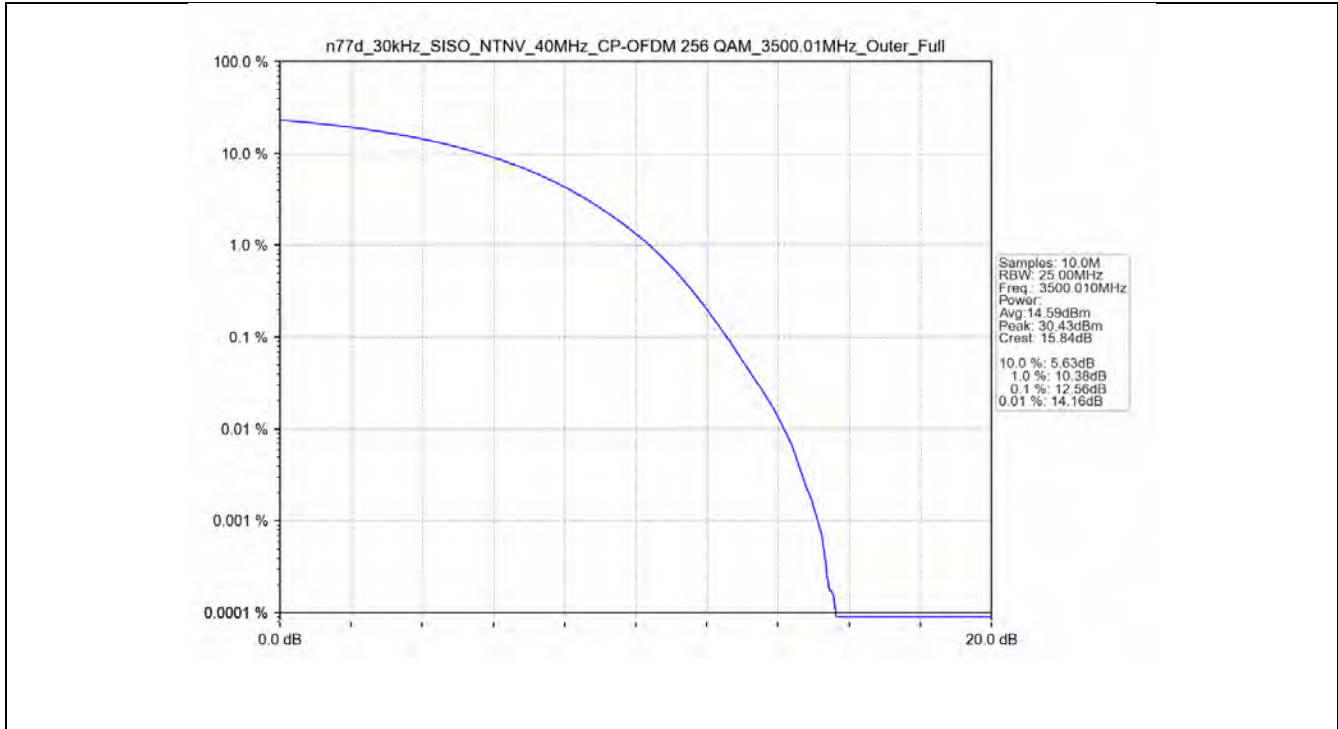


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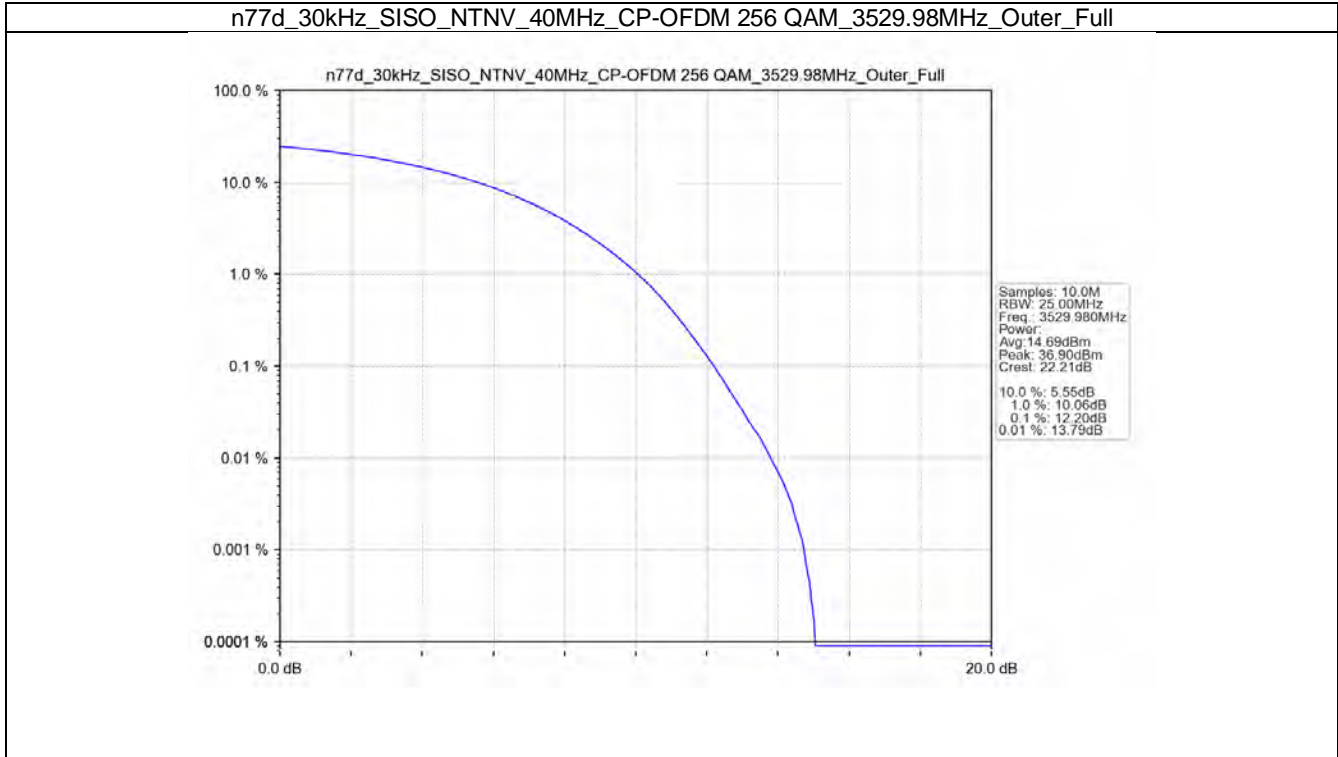


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## 4.4 30k\_SISO\_60MHz\_NTNV

### 4.4.1 Test Result

5G NR n77d SCS=30kHz SISO 60MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3480	Outer_Full	10.59	/	/	<=13	Pass
	3500.01	Outer_Full	10.75	/	/	<=13	Pass
	3519.99	Outer_Full	10.59	/	/	<=13	Pass
DFT-s-OFDM QPSK	3480	Outer_Full	11.26	/	/	<=13	Pass
	3500.01	Outer_Full	10.71	/	/	<=13	Pass
	3519.99	Outer_Full	10.52	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3480	Outer_Full	10.41	/	/	<=13	Pass
	3500.01	Outer_Full	10.84	/	/	<=13	Pass
	3519.99	Outer_Full	10.53	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3480	Outer_Full	10.76	/	/	<=13	Pass
	3500.01	Outer_Full	11.30	/	/	<=13	Pass
	3519.99	Outer_Full	10.61	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3480	Outer_Full	11.29	/	/	<=13	Pass
	3500.01	Outer_Full	10.44	/	/	<=13	Pass
	3519.99	Outer_Full	10.62	/	/	<=13	Pass
CP-OFDM QPSK	3480	Outer_Full	11.65	/	/	<=13	Pass
	3500.01	Outer_Full	11.67	/	/	<=13	Pass
	3519.99	Outer_Full	11.57	/	/	<=13	Pass
CP-OFDM 16 QAM	3480	Outer_Full	11.40	/	/	<=13	Pass
	3500.01	Outer_Full	11.51	/	/	<=13	Pass
	3519.99	Outer_Full	11.90	/	/	<=13	Pass
CP-OFDM 64 QAM	3480	Outer_Full	11.52	/	/	<=13	Pass
	3500.01	Outer_Full	12.70	/	/	<=13	Pass
	3519.99	Outer_Full	11.23	/	/	<=13	Pass
CP-OFDM 256 QAM	3480	Outer_Full	11.43	/	/	<=13	Pass
	3500.01	Outer_Full	12.35	/	/	<=13	Pass
	3519.99	Outer_Full	12.51	/	/	<=13	Pass



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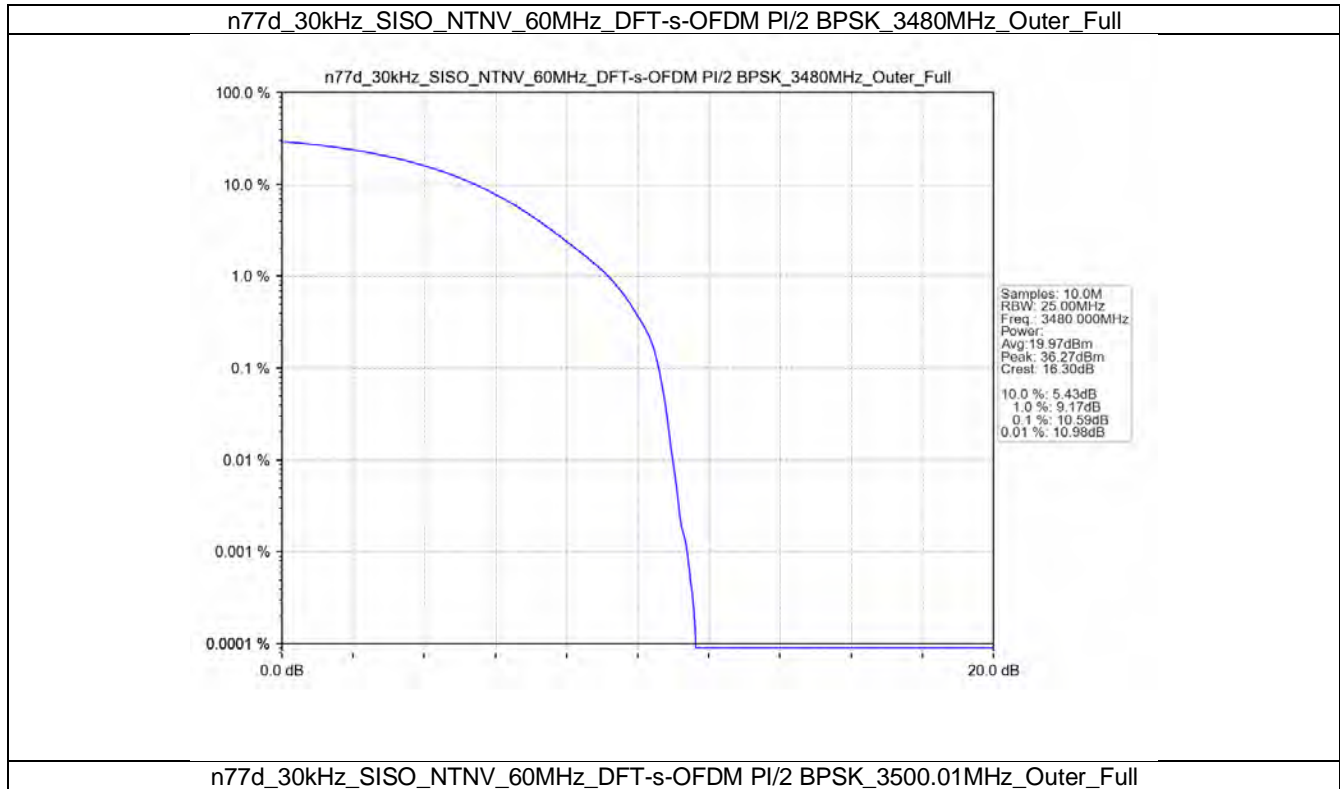
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4.4.2 Test Graph



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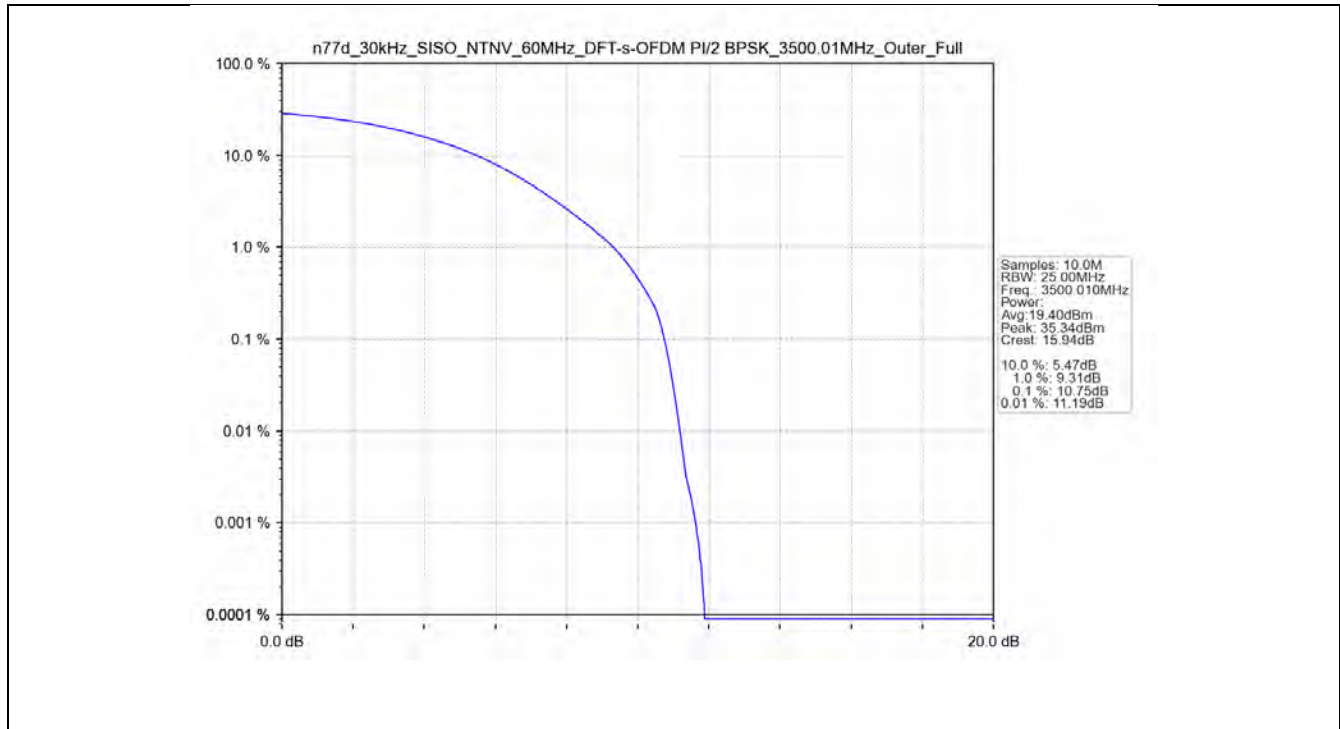


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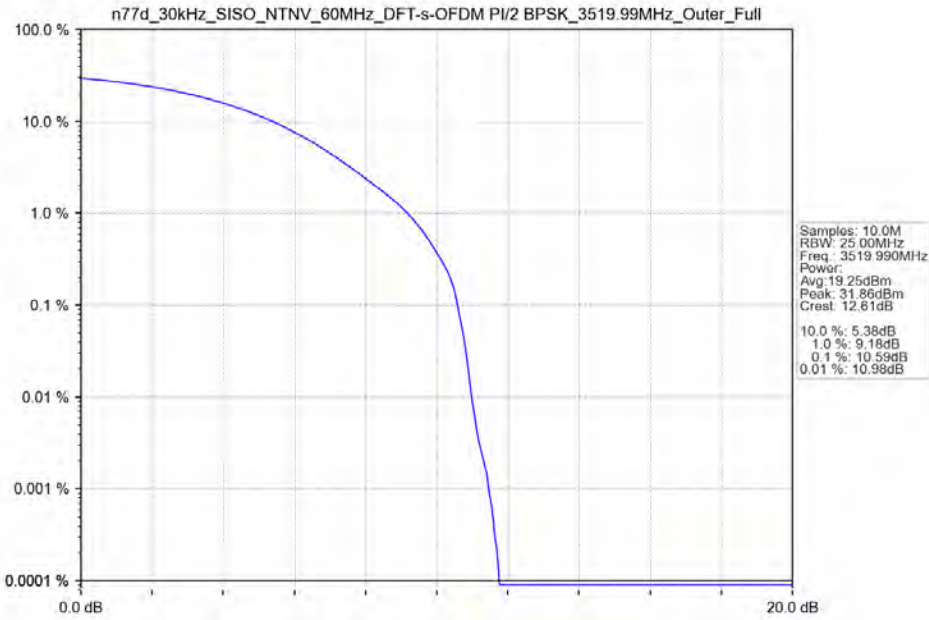
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n77d\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM PI/2 BPSK\_3519.99MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM QPSK\_3480MHz\_Outer\_Full



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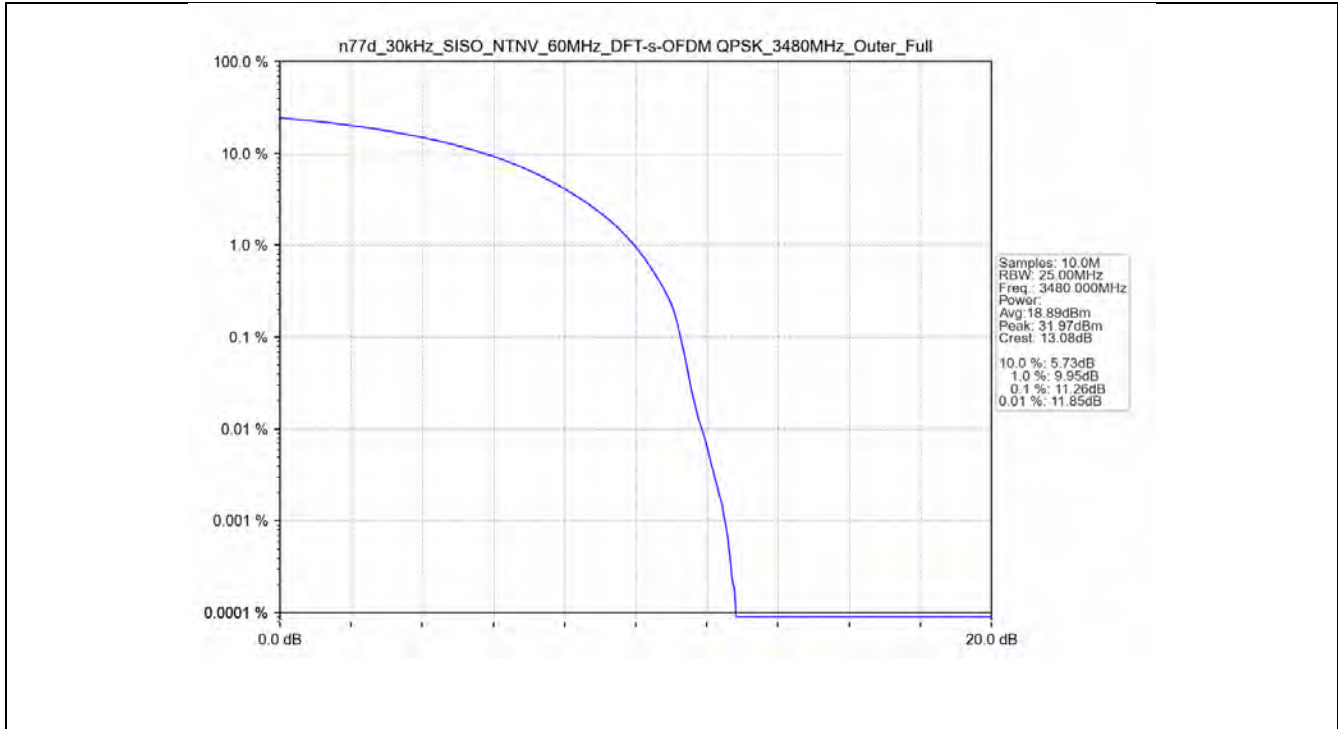


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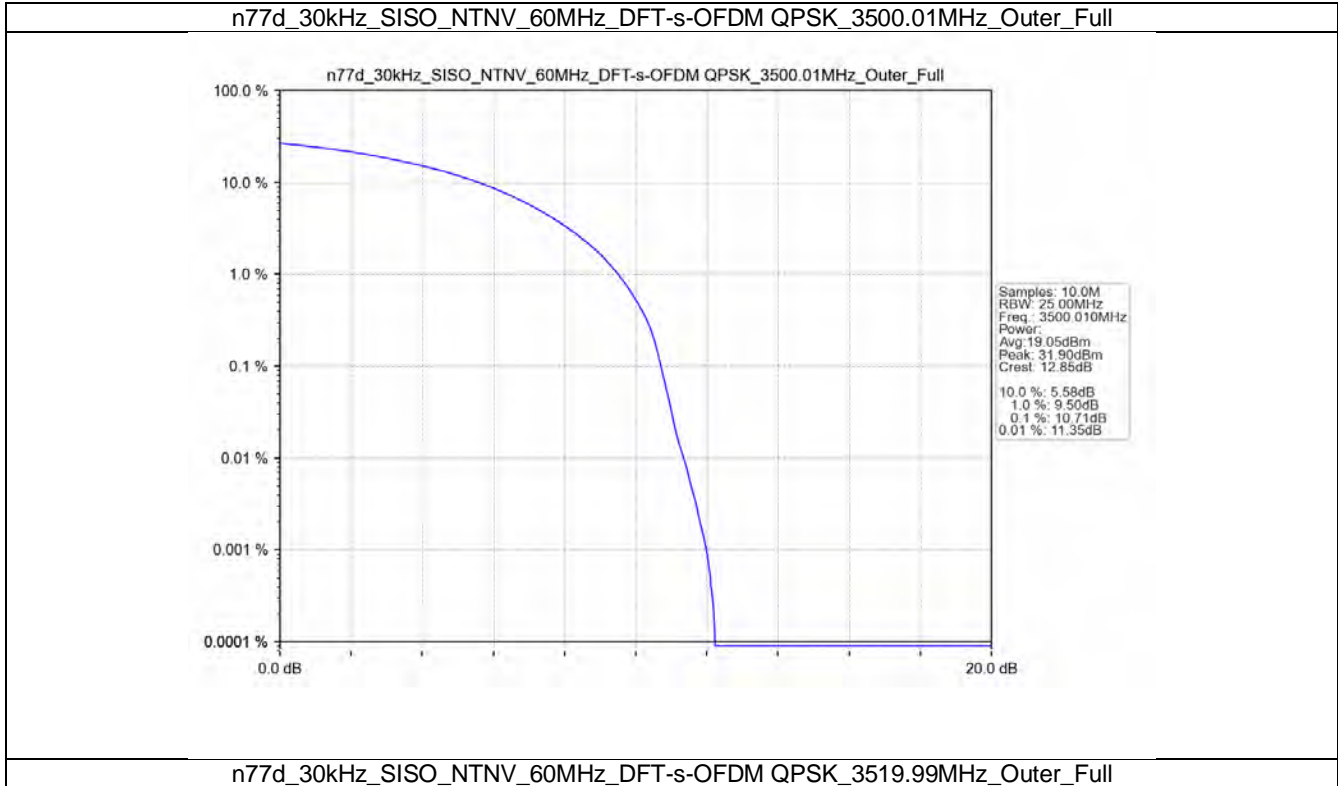


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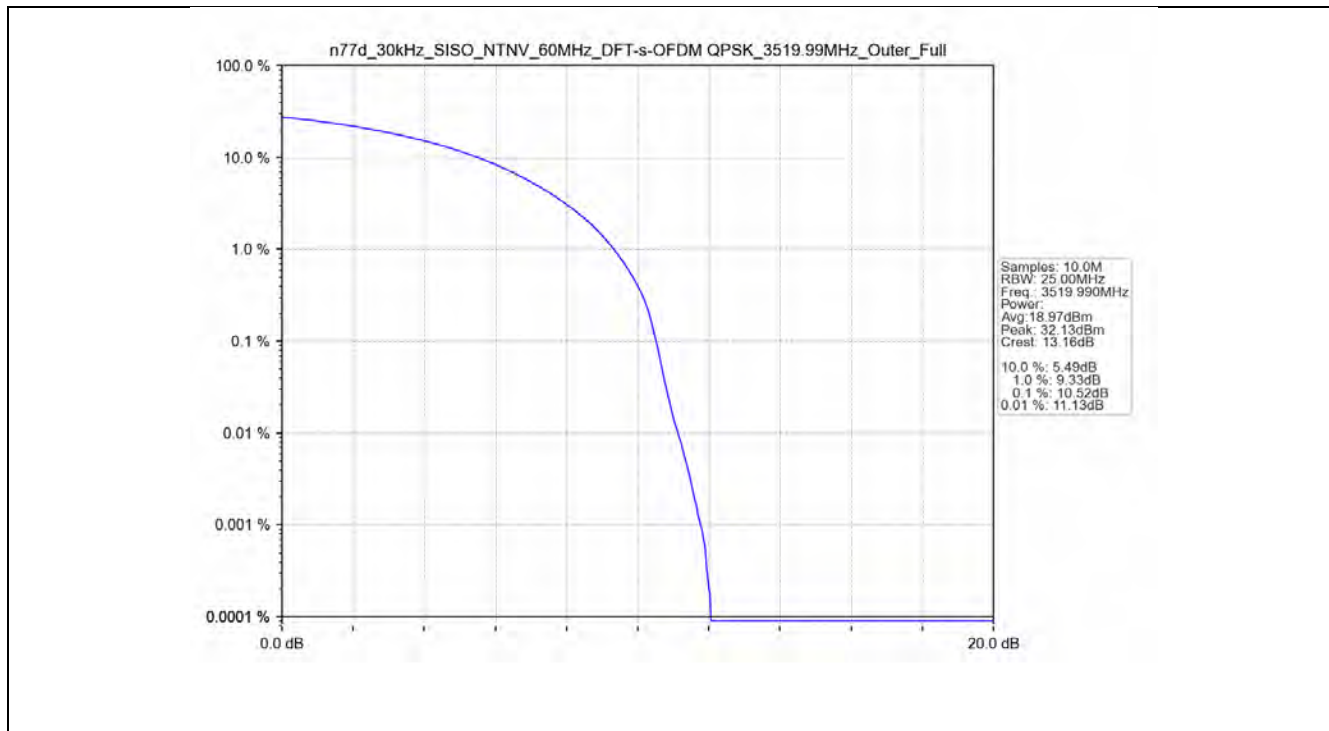
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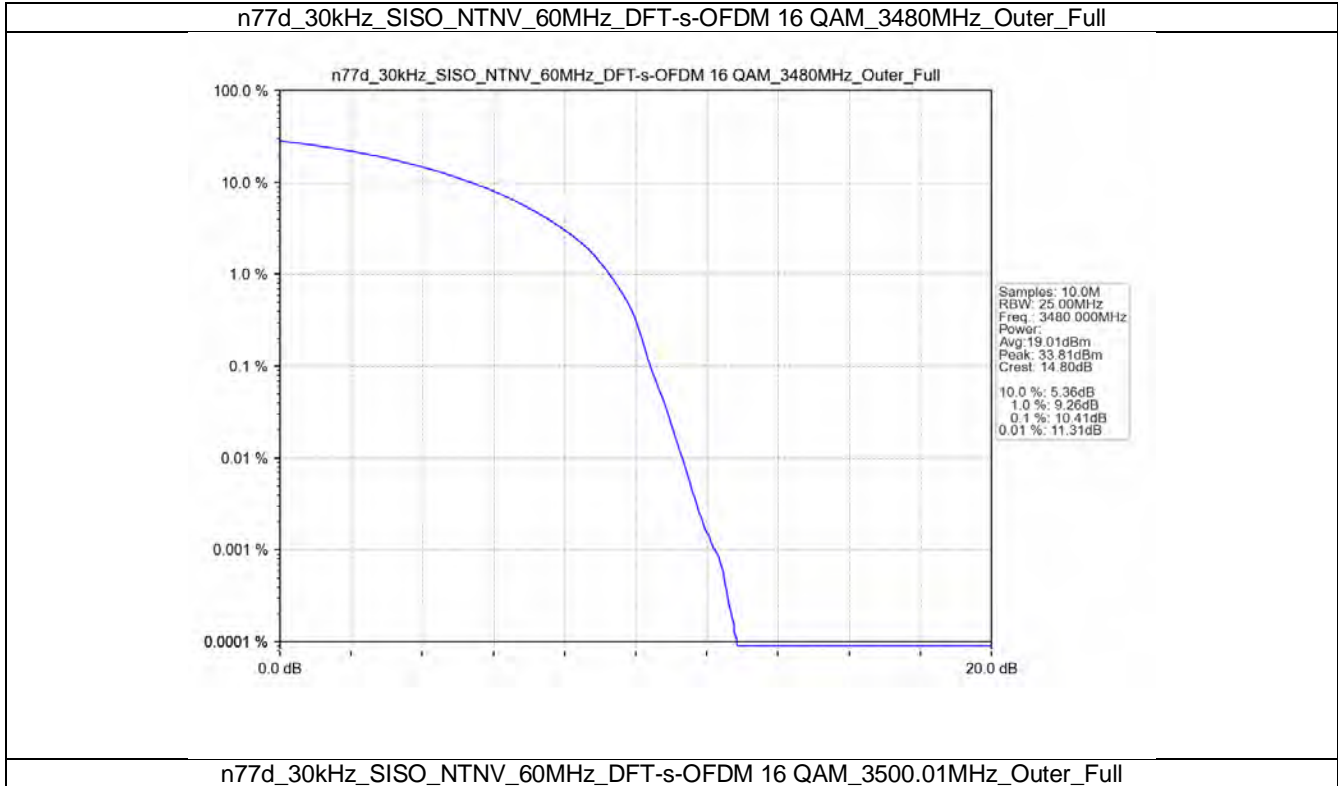


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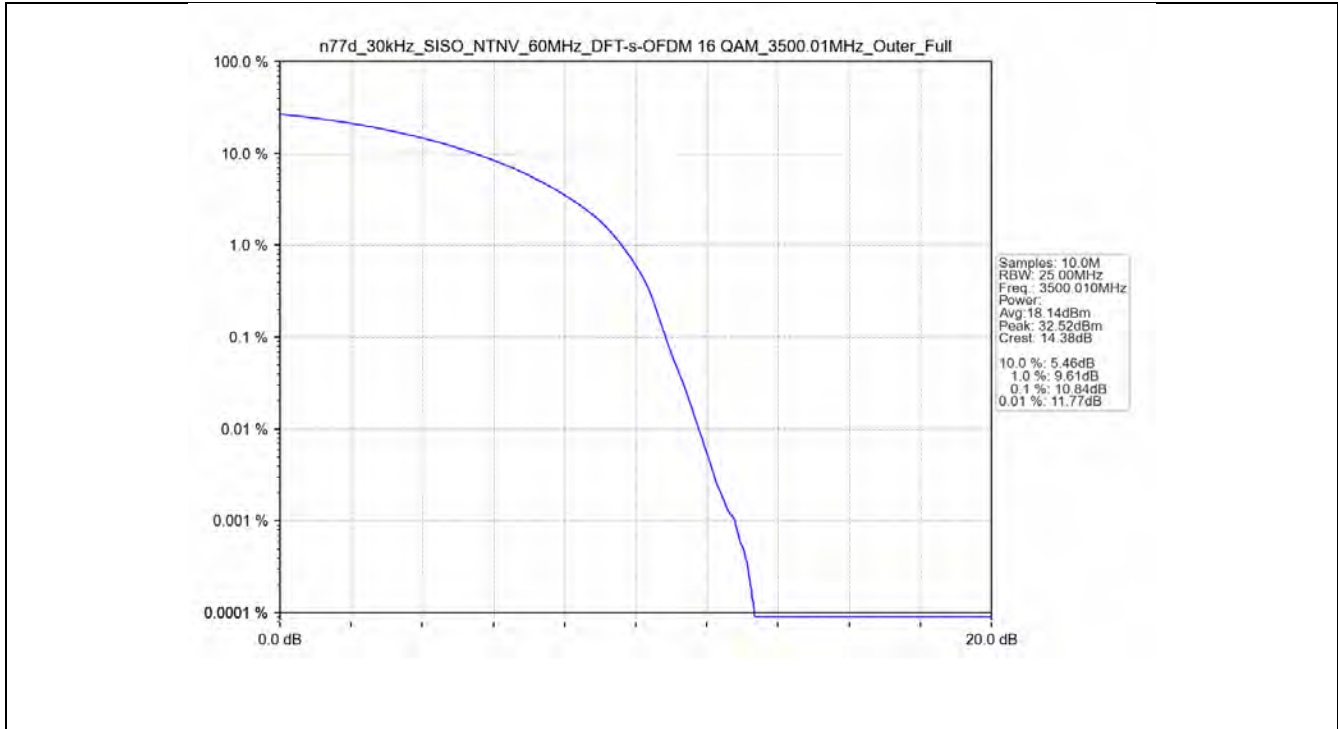


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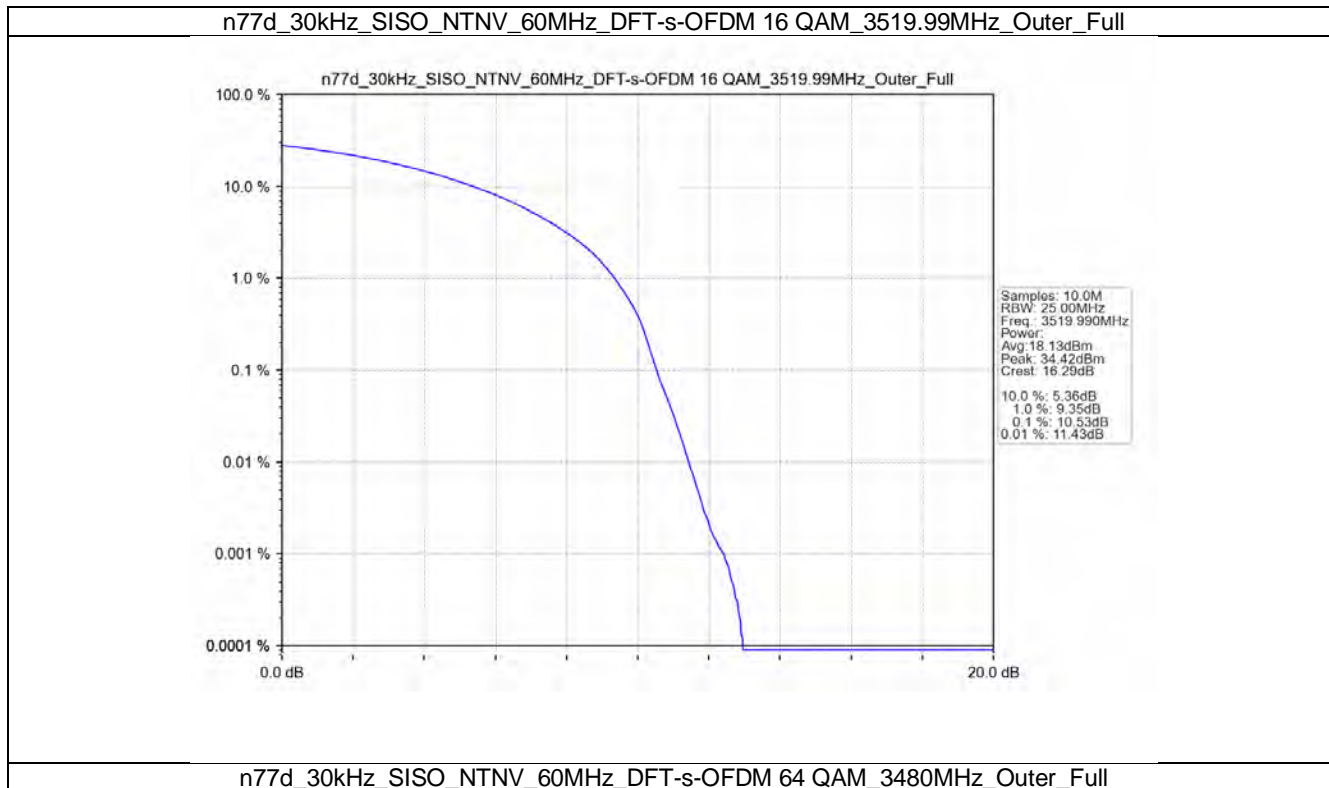
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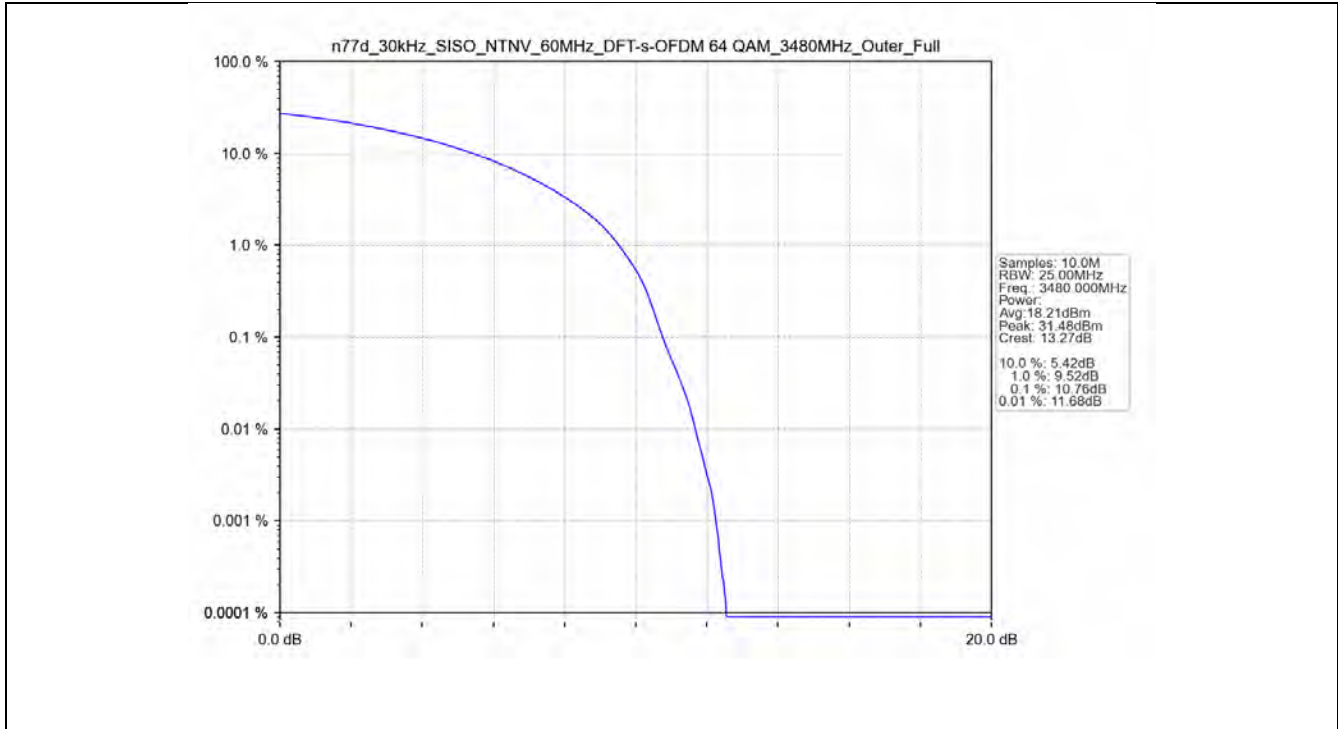


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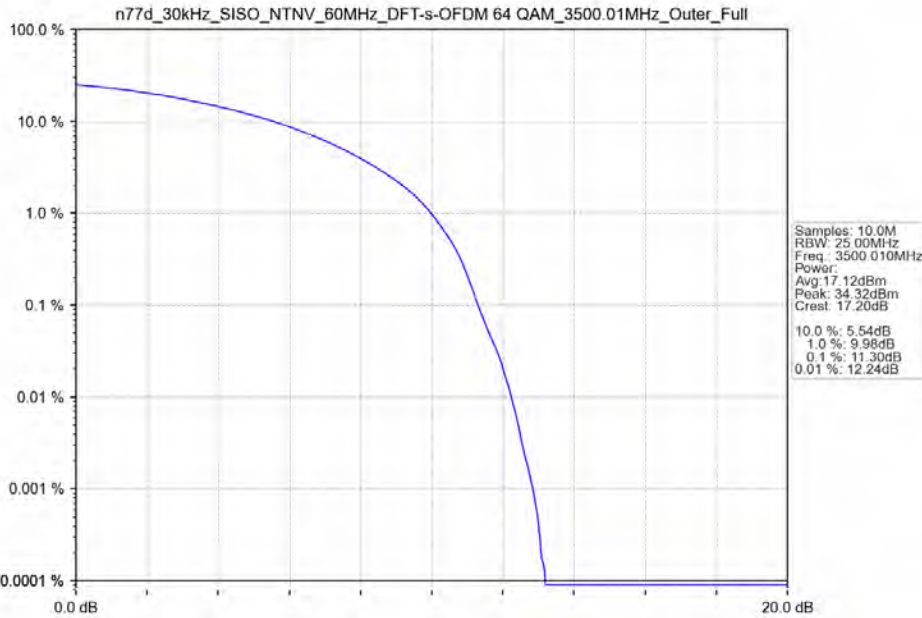
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n77d\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 64 QAM\_3500.01MHz\_Outer\_Full



n77d\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 64 QAM\_3519.99MHz\_Outer\_Full



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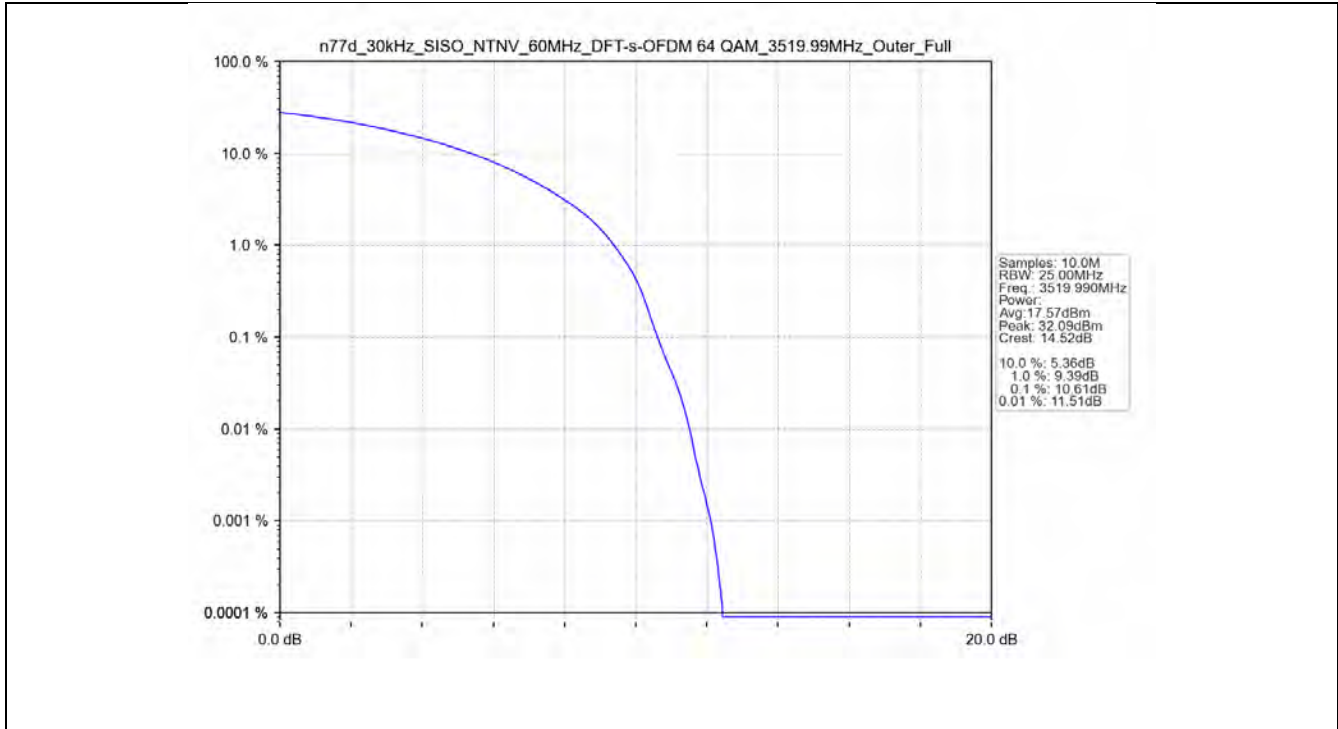


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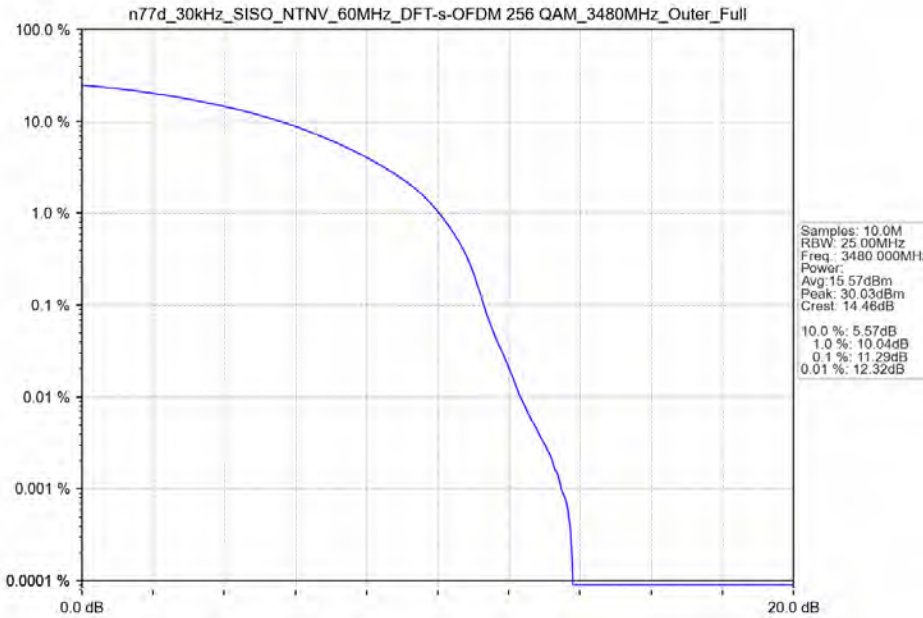
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n77d\_30kHz\_SISO\_NTNV\_60MHz\_DFT-s-OFDM 256 QAM\_3500.01MHz\_Outer\_Full



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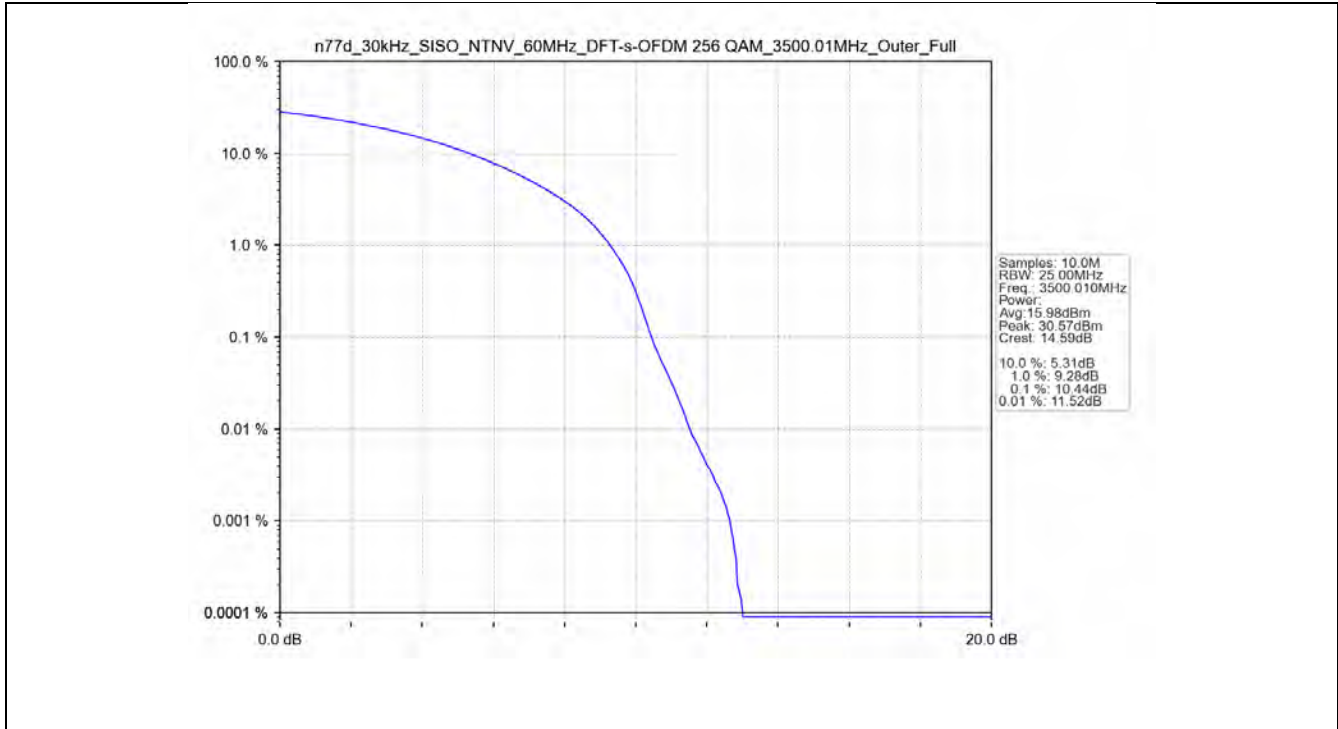


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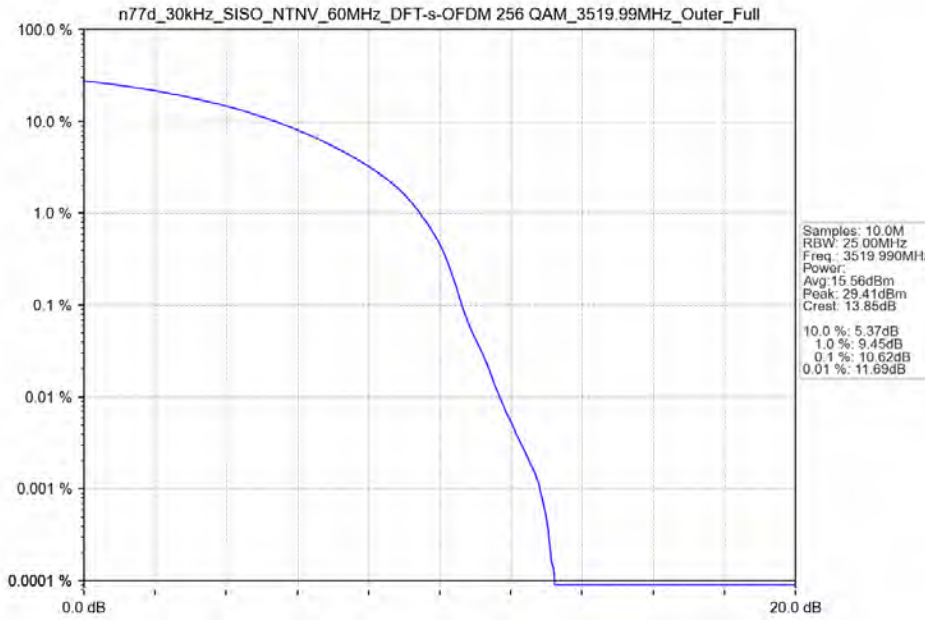
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n77d\_30kHz\_SISO\_NTNV\_60MHz\_CP-OFDM QPSK\_3480MHz\_Outer\_Full



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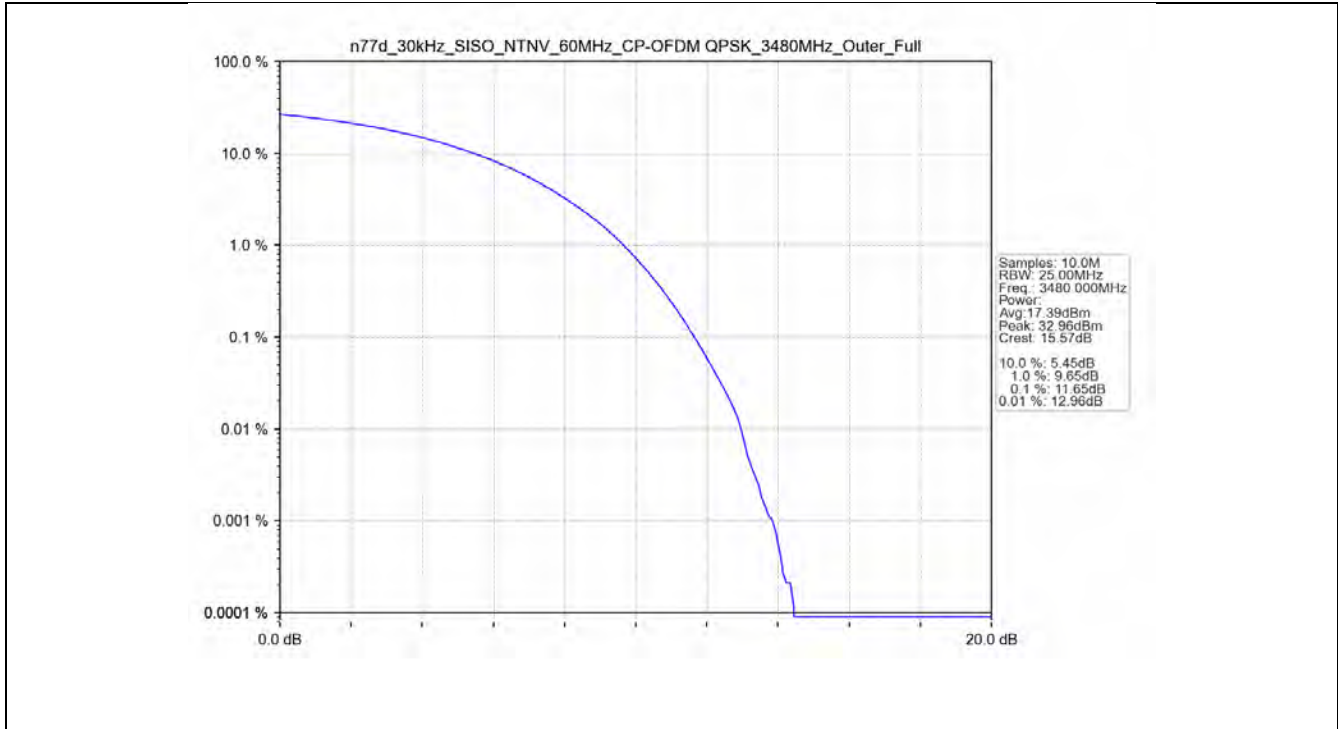


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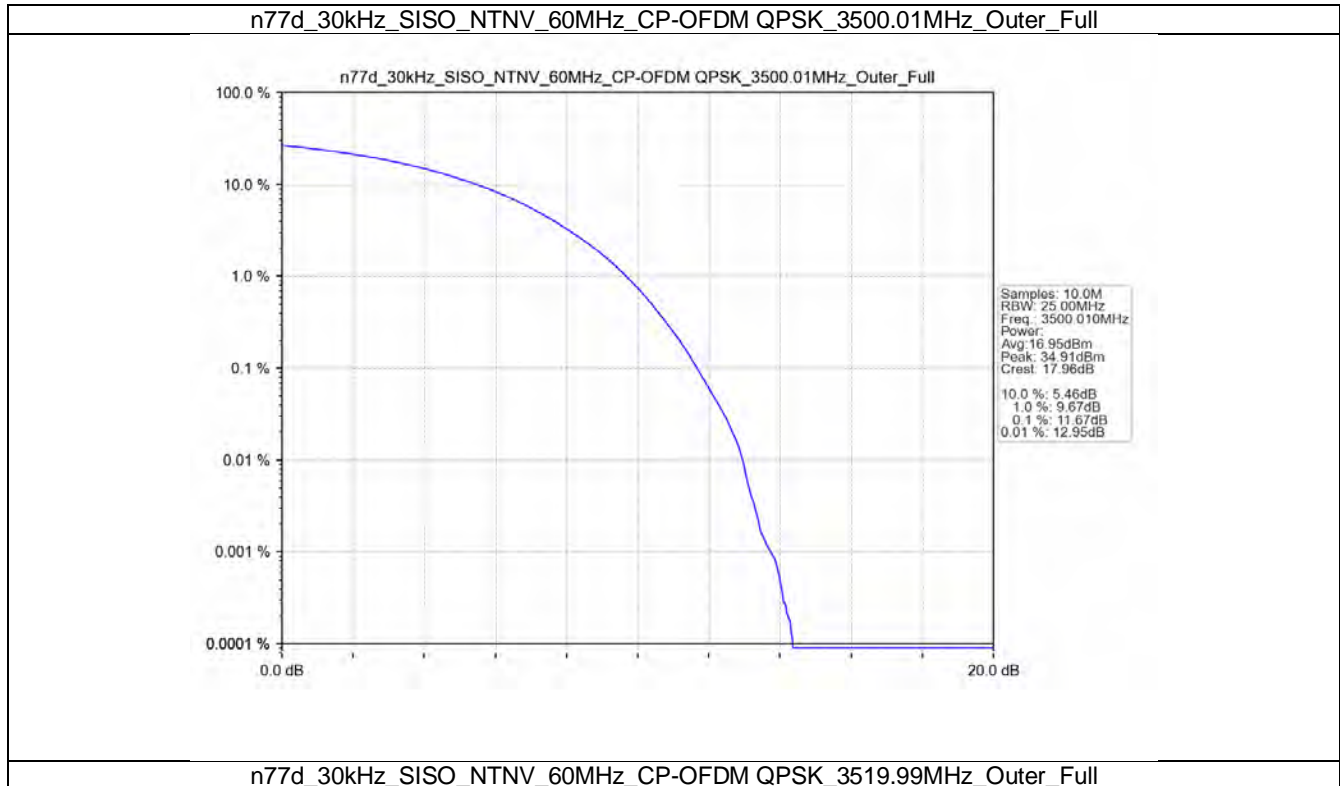


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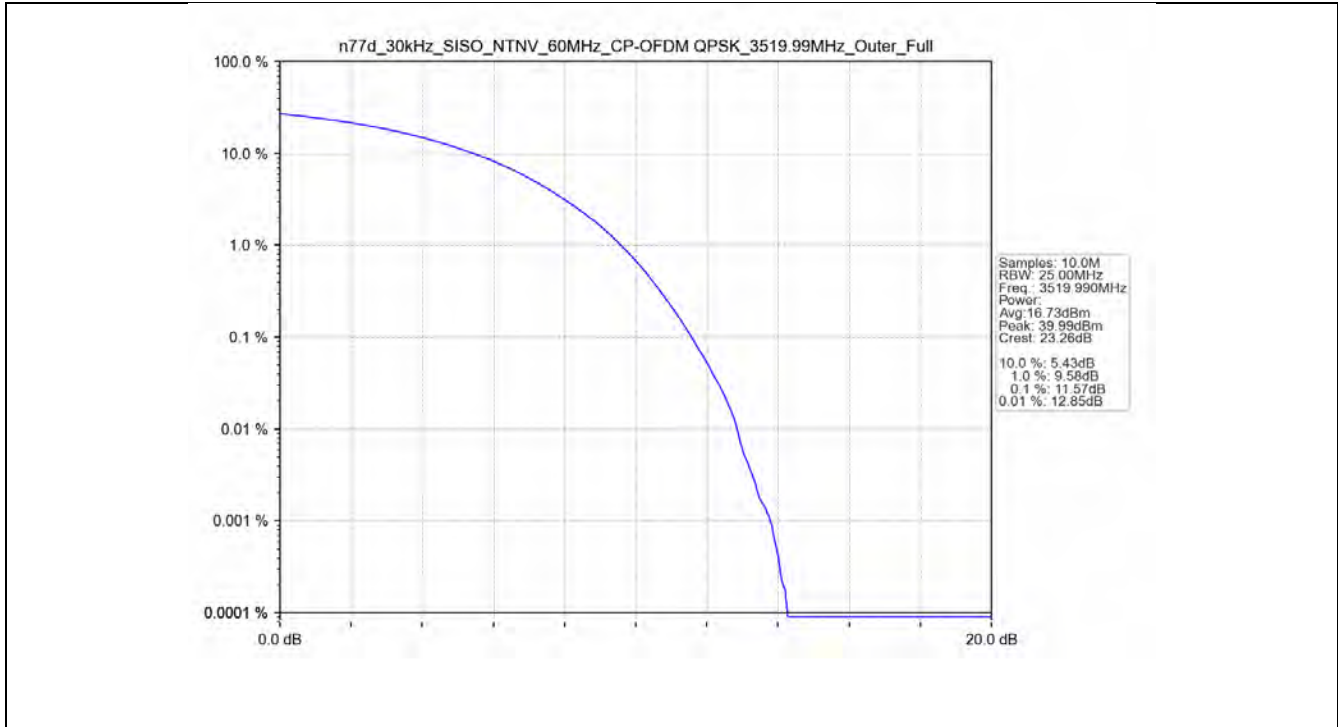


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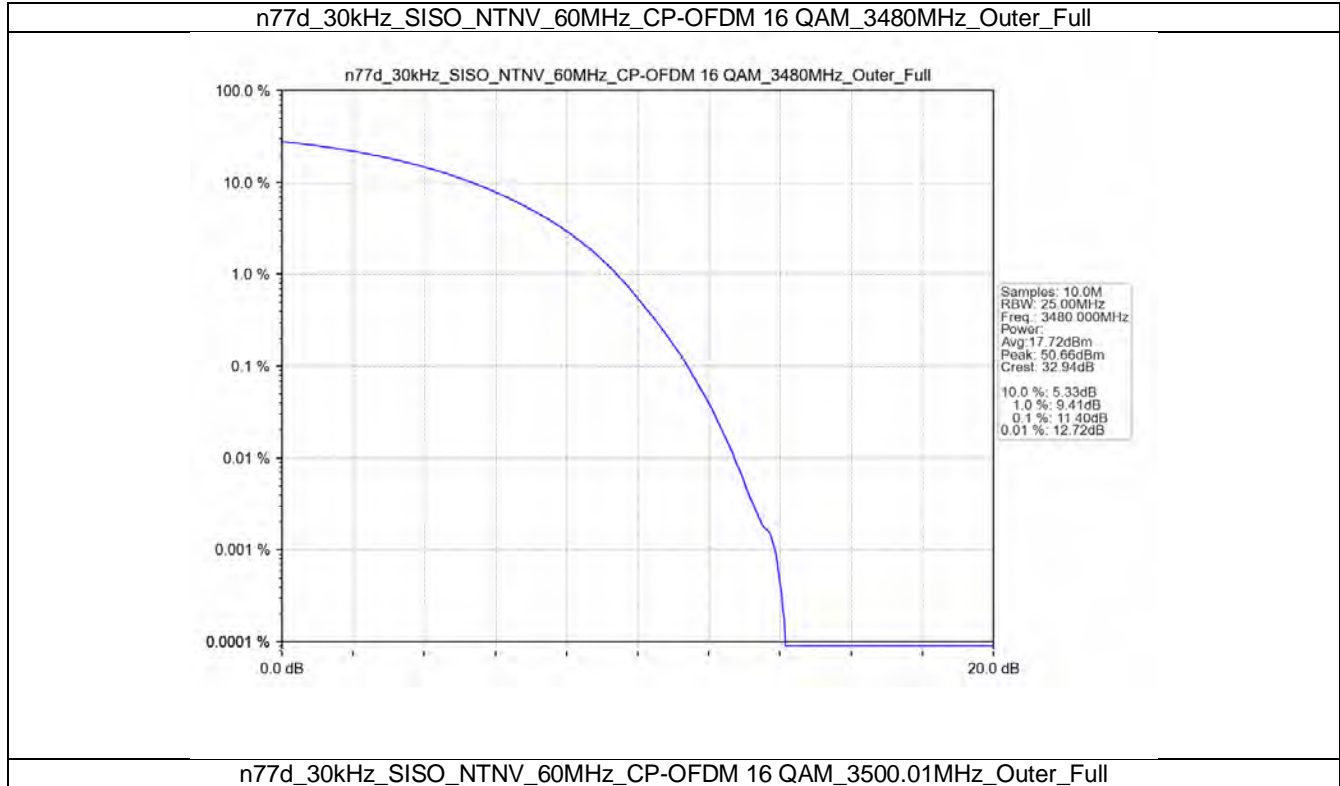


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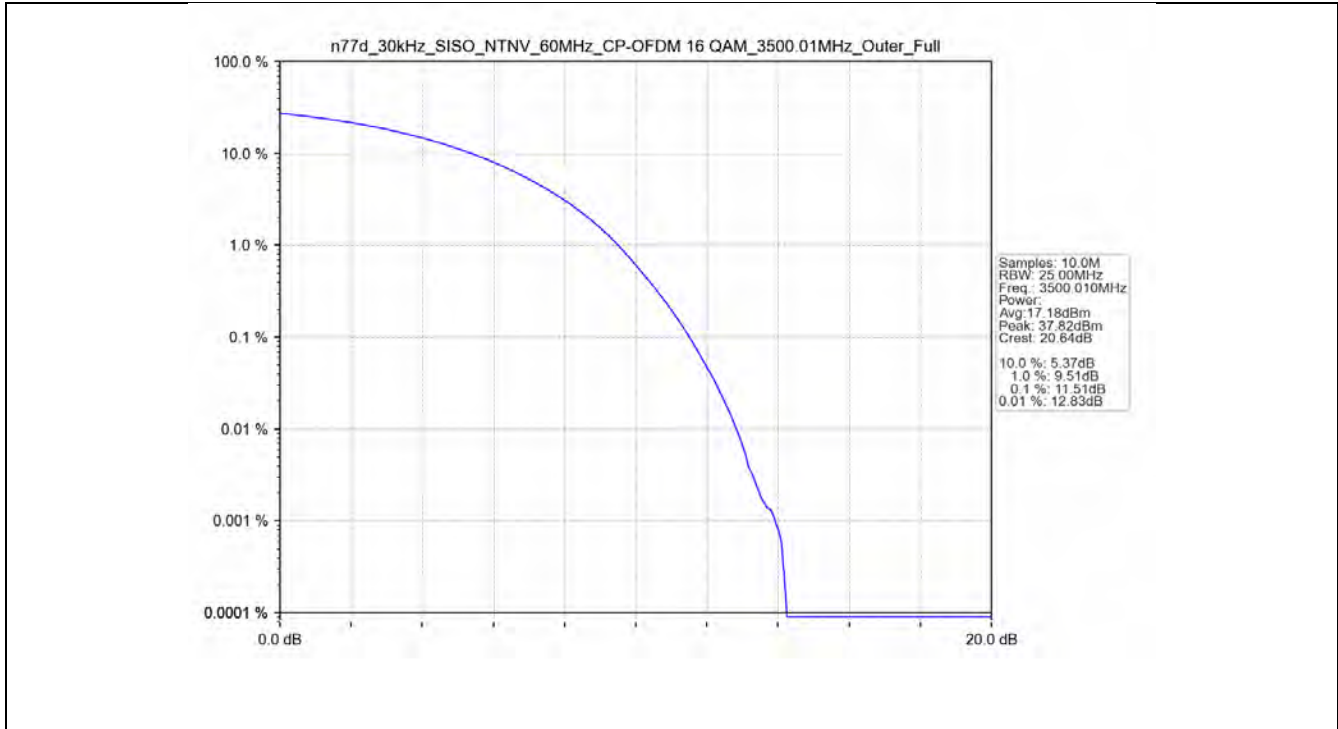


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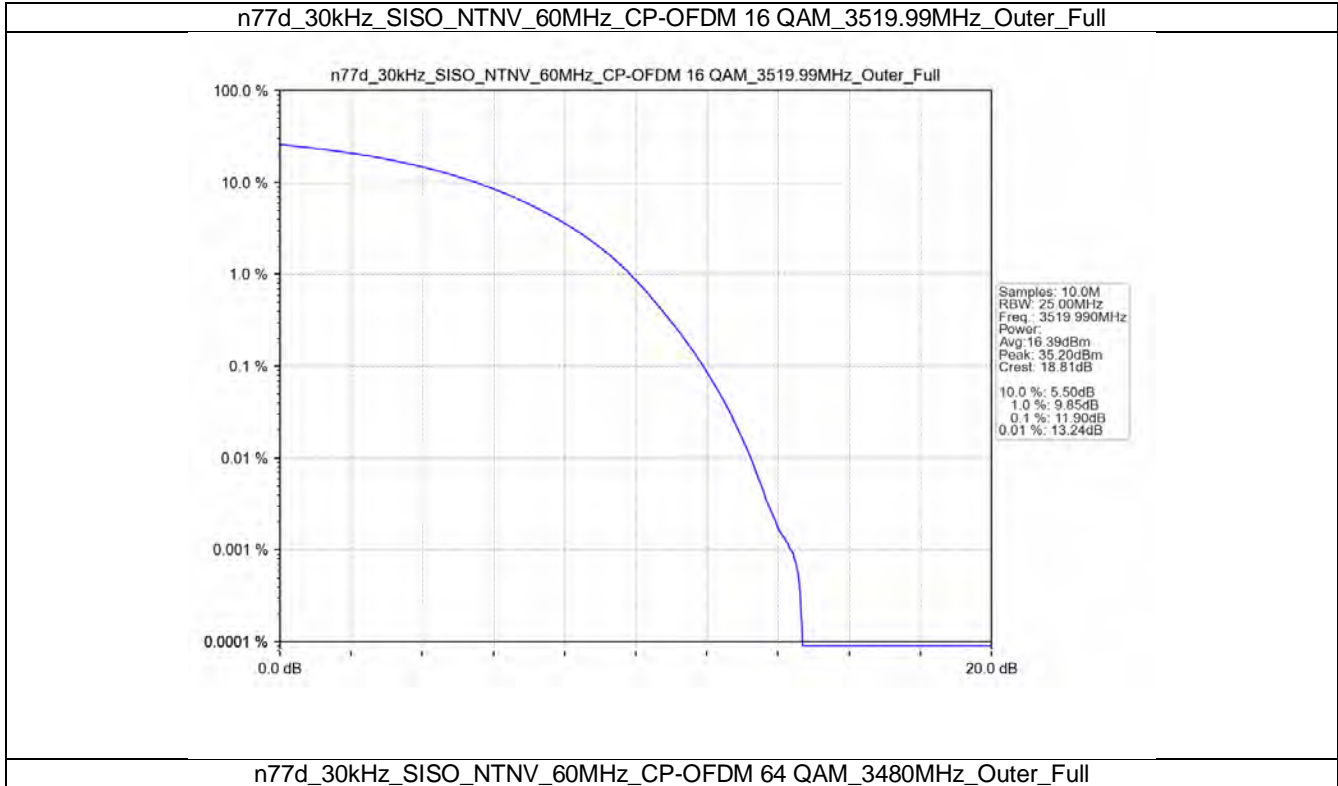


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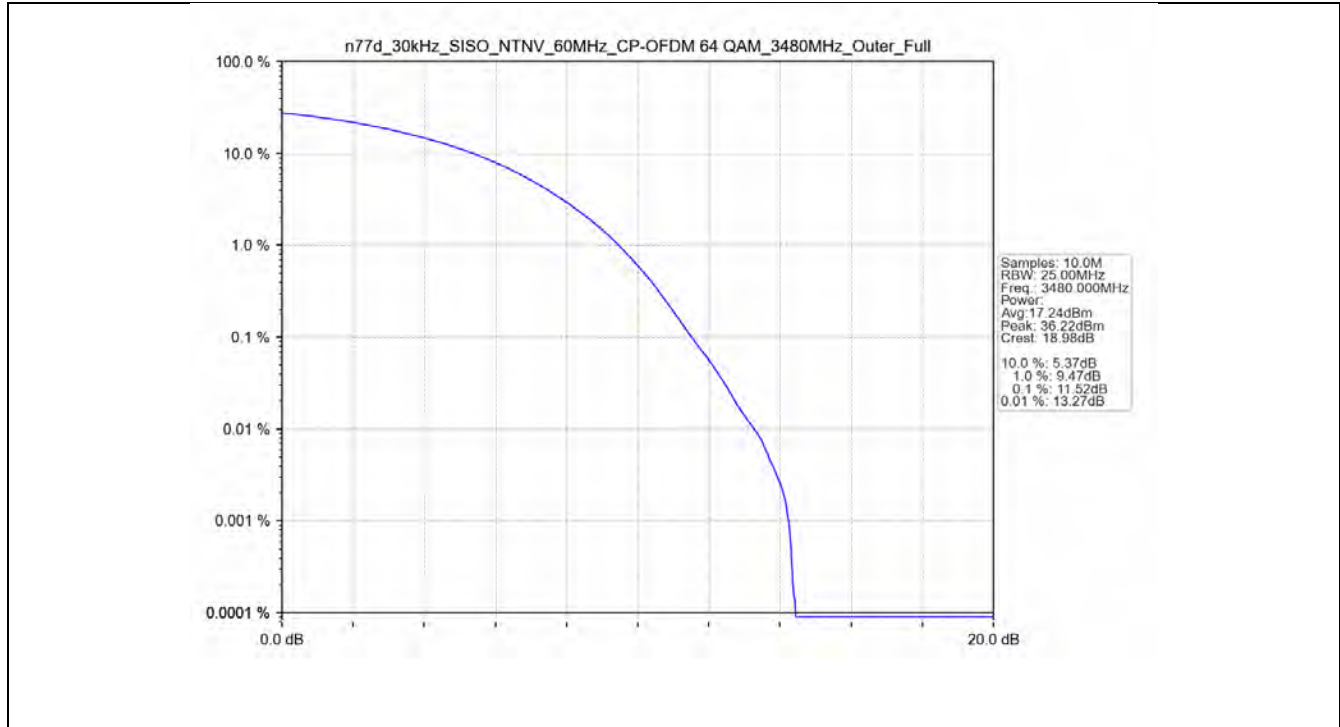


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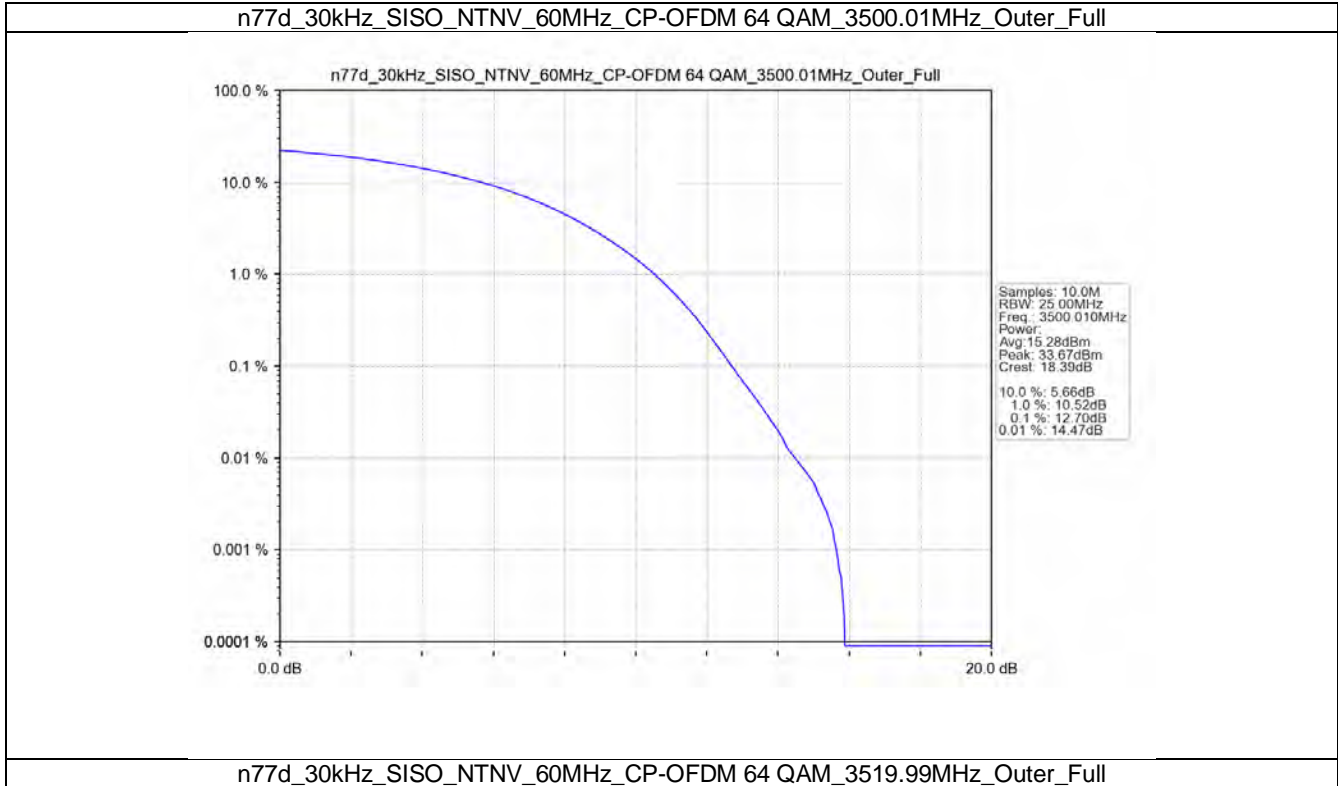


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