

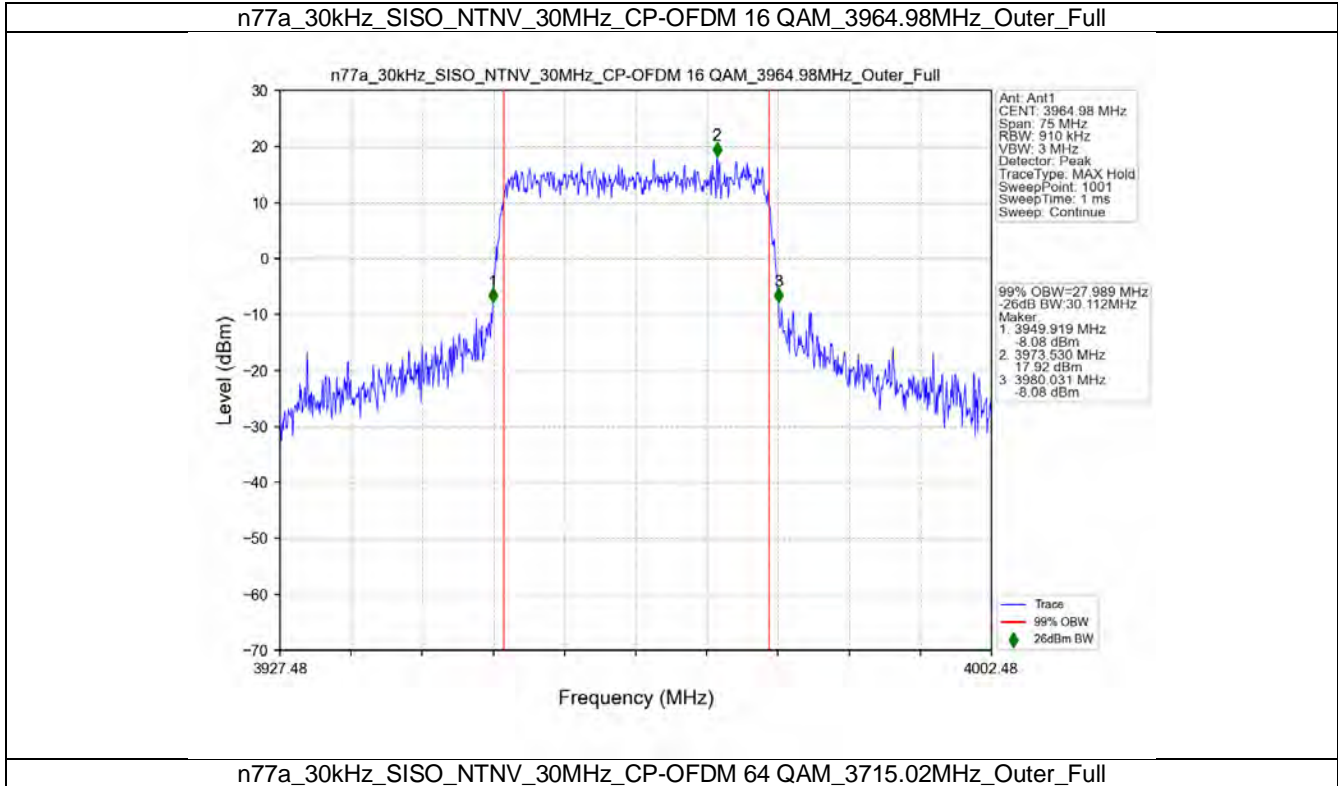


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Report No.: SZCR240100038409

Rev.: 01

Page: 98 of 973



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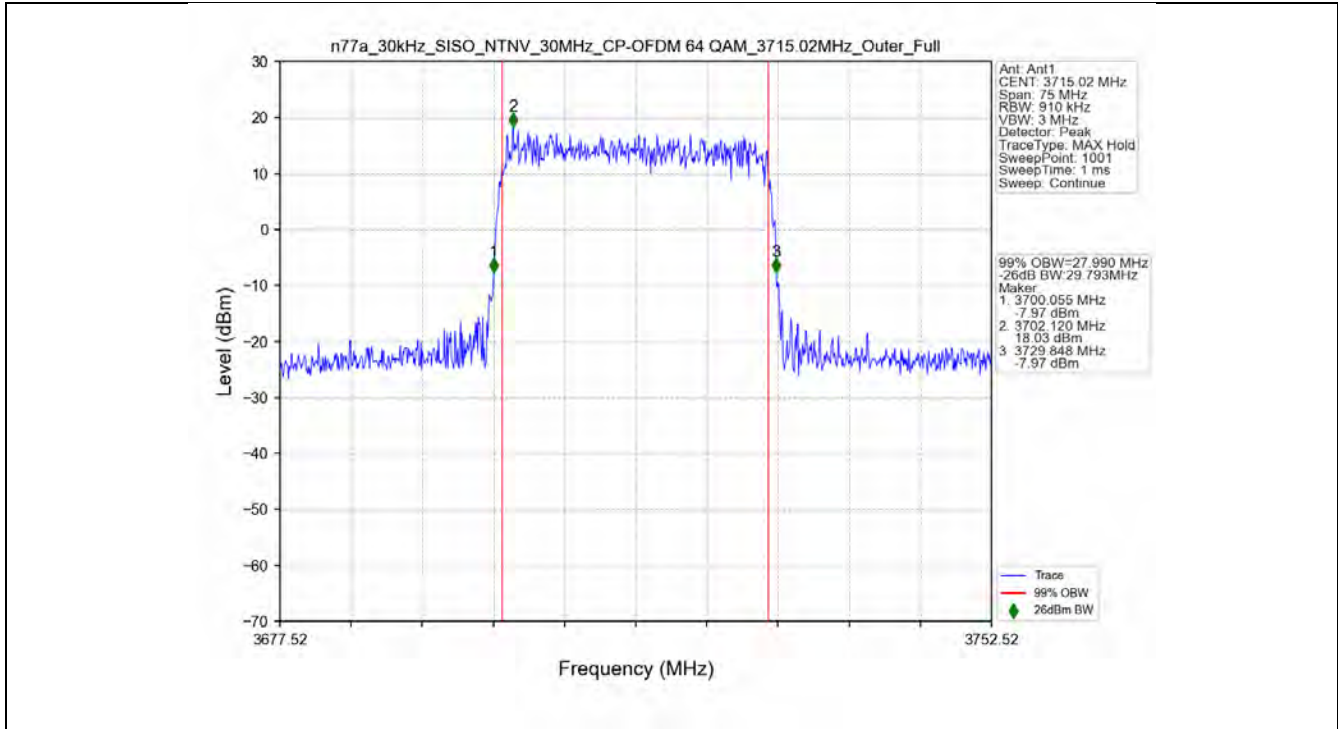


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Report No.: SZCR240100038409

Rev.: 01

Page: 99 of 973



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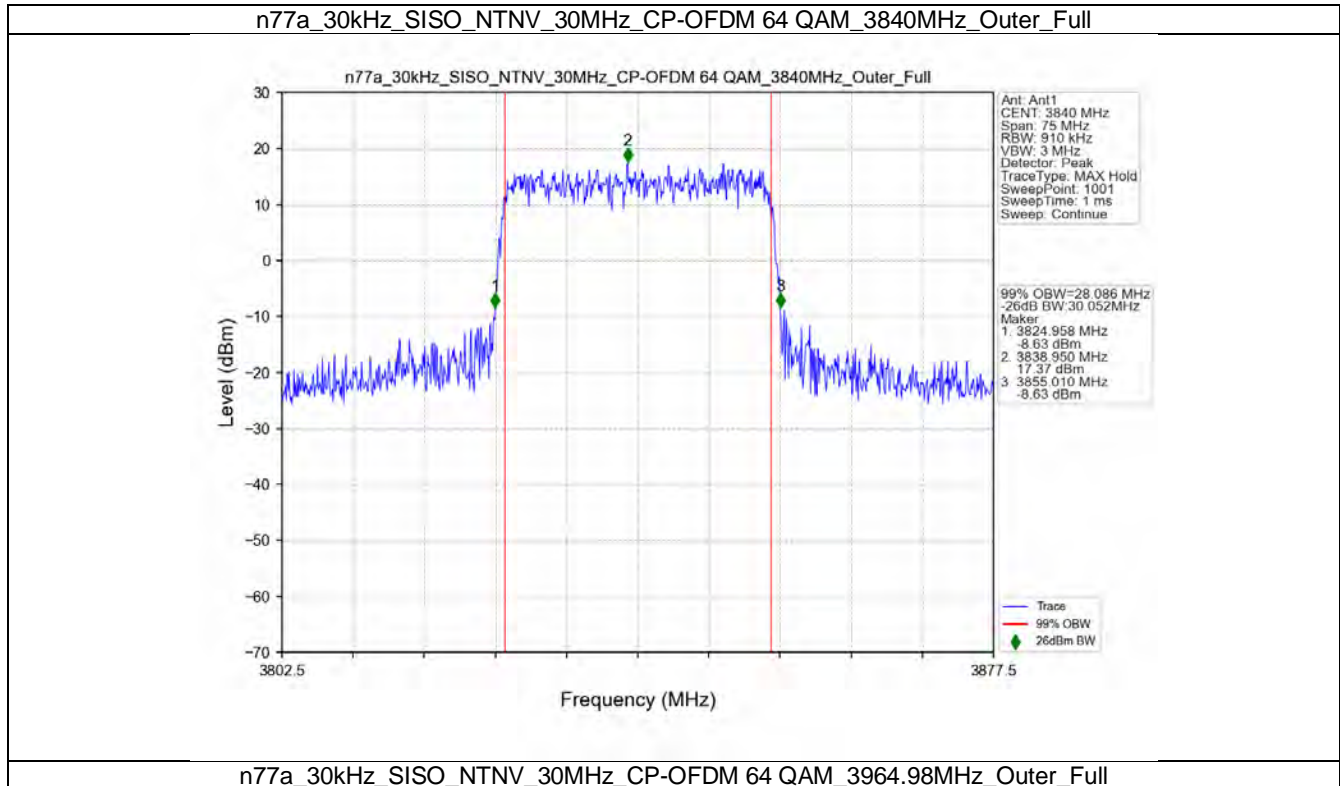


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Report No.: SZCR240100038409

Rev.: 01

Page: 100 of 973



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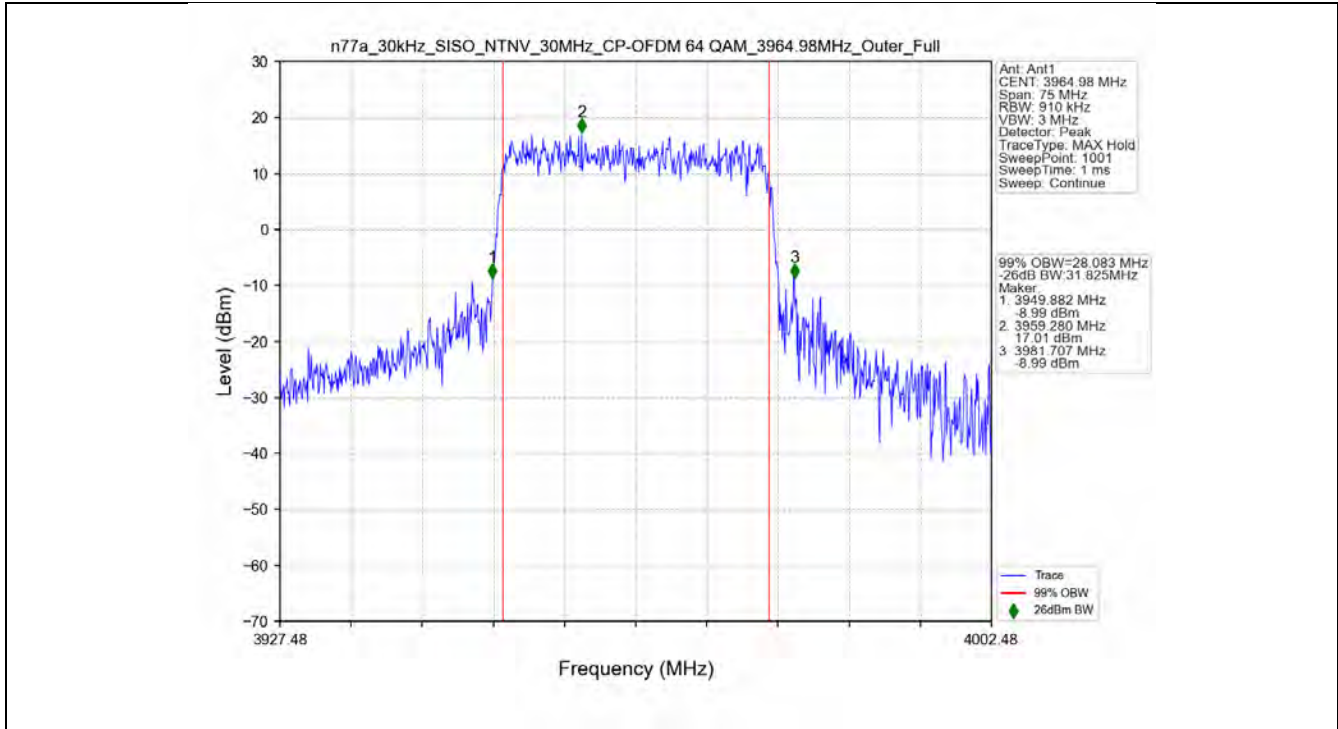


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Report No.: SZCR240100038409

Rev.: 01

Page: 101 of 973



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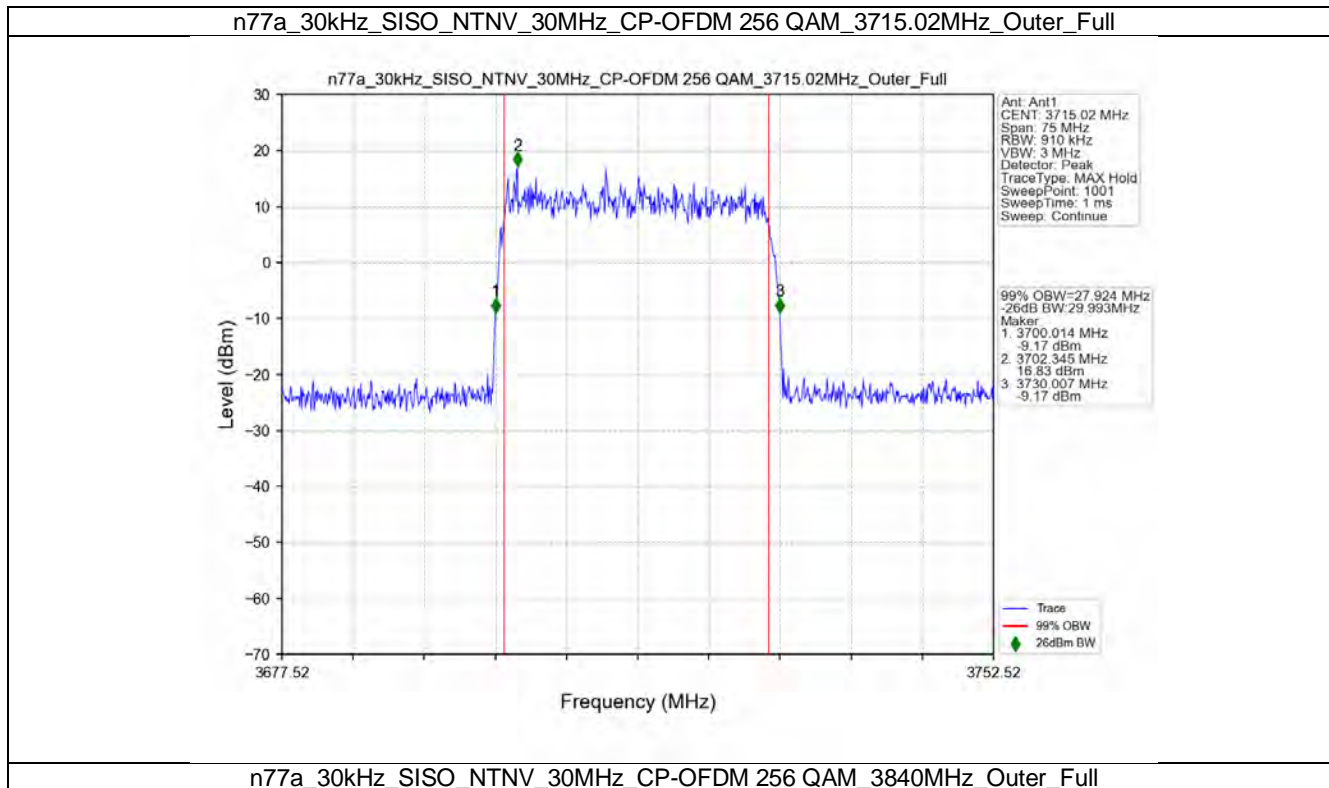
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Report No.: SZCR240100038409
Rev.: 01
Page: 102 of 973



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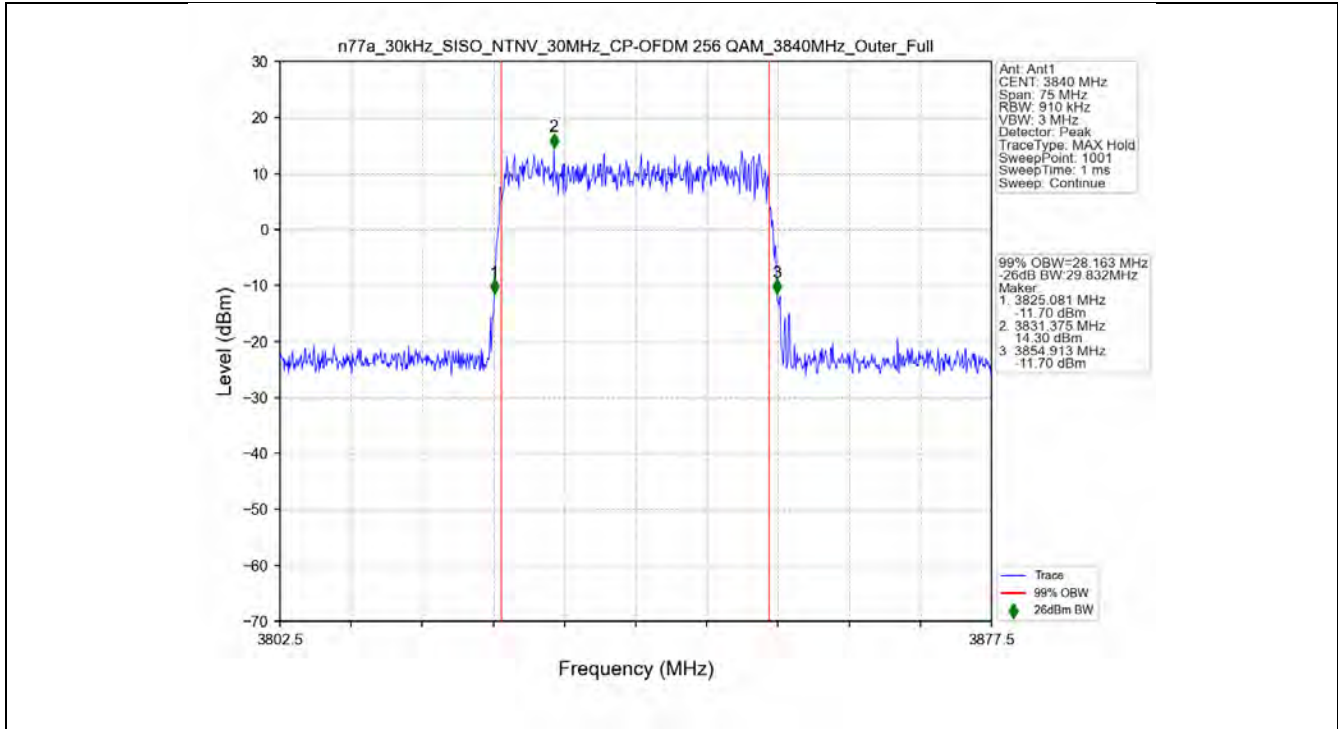


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Report No.: SZCR240100038409

Rev.: 01

Page: 103 of 973



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Rev.: 01

Page: 104 of 973



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Report No.: SZCR240100038409
 Rev.: 01
 Page: 105 of 973

3.3 30k_SISO_40MHz_NTNV

3.3.1 Test Result

5G NR n77a 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	3720	Outer_Full	36.14	38.51	/	Pass
	3840	Outer_Full	36.00	38.44	/	Pass
	3960	Outer_Full	35.92	38.58	/	Pass
DFT-s-OFDM QPSK	3720	Outer_Full	36.06	38.29	/	Pass
	3840	Outer_Full	36.03	38.31	/	Pass
	3960	Outer_Full	36.10	38.48	/	Pass
DFT-s-OFDM 16 QAM	3720	Outer_Full	36.15	38.65	/	Pass
	3840	Outer_Full	35.92	38.17	/	Pass
	3960	Outer_Full	36.03	38.38	/	Pass
DFT-s-OFDM 64 QAM	3720	Outer_Full	36.12	38.50	/	Pass
	3840	Outer_Full	36.18	38.05	/	Pass
	3960	Outer_Full	36.04	38.41	/	Pass
DFT-s-OFDM 256 QAM	3720	Outer_Full	36.24	38.75	/	Pass
	3840	Outer_Full	36.25	38.49	/	Pass
	3960	Outer_Full	36.00	38.52	/	Pass
CP-OFDM QPSK	3720	Outer_Full	38.19	40.57	/	Pass
	3840	Outer_Full	38.14	40.72	/	Pass
	3960	Outer_Full	18.57	19.73	/	Pass
CP-OFDM 16 QAM	3720	Outer_Full	37.93	40.61	/	Pass
	3840	Outer_Full	38.01	40.65	/	Pass
	3960	Outer_Full	22.04	23.10	/	Pass
CP-OFDM 64 QAM	3720	Outer_Full	37.93	40.83	/	Pass
	3840	Outer_Full	38.18	40.76	/	Pass
	3960	Outer_Full	38.06	40.58	/	Pass
CP-OFDM 256 QAM	3720	Outer_Full	38.28	40.54	/	Pass
	3840	Outer_Full	38.08	40.63	/	Pass
	3960	Outer_Full	38.01	40.59	/	Pass



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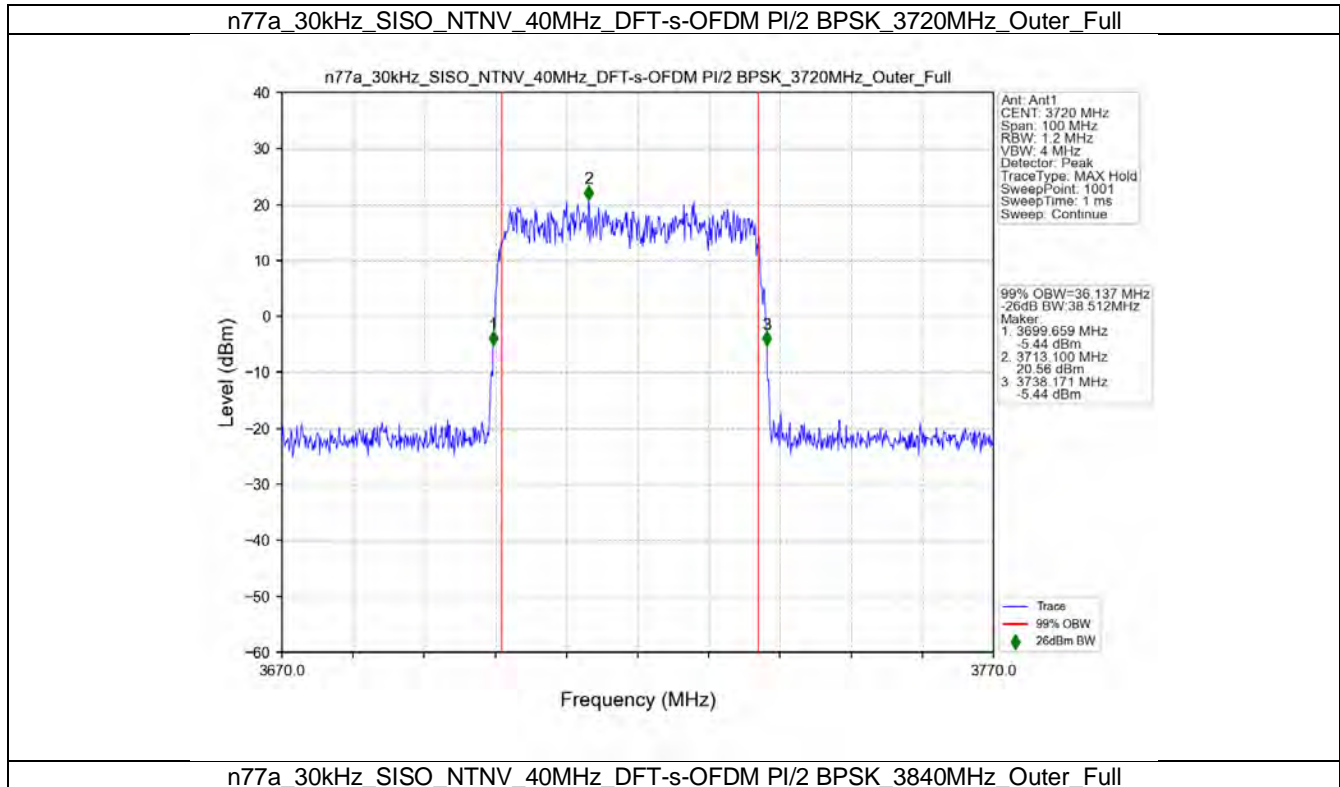
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Report No.: SZCR240100038409

Rev.: 01

Page: 106 of 973

3.3.2 Test Graph



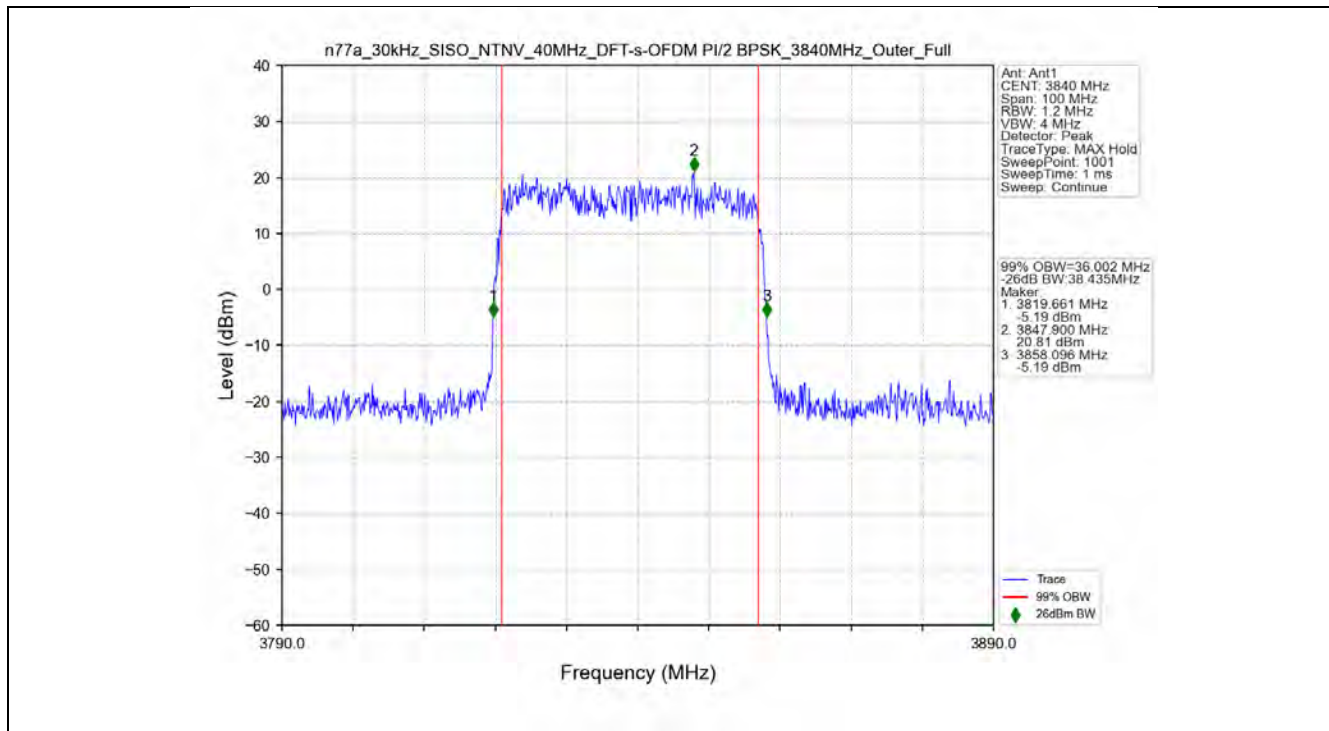
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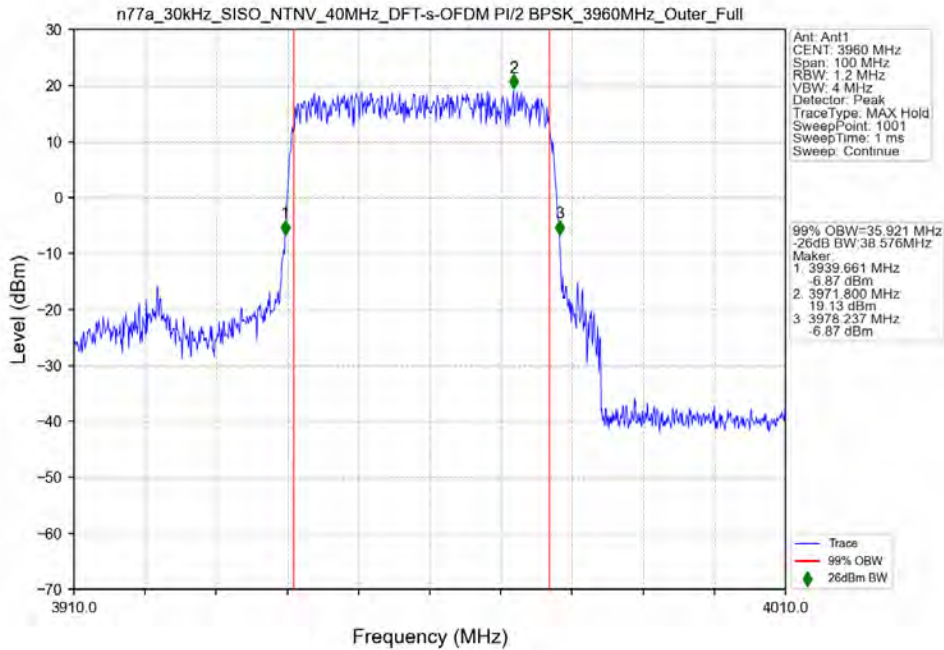
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Report No.: SZCR240100038409

Rev.: 01

Page: 108 of 973

n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3960MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3720MHz_Outer_Full



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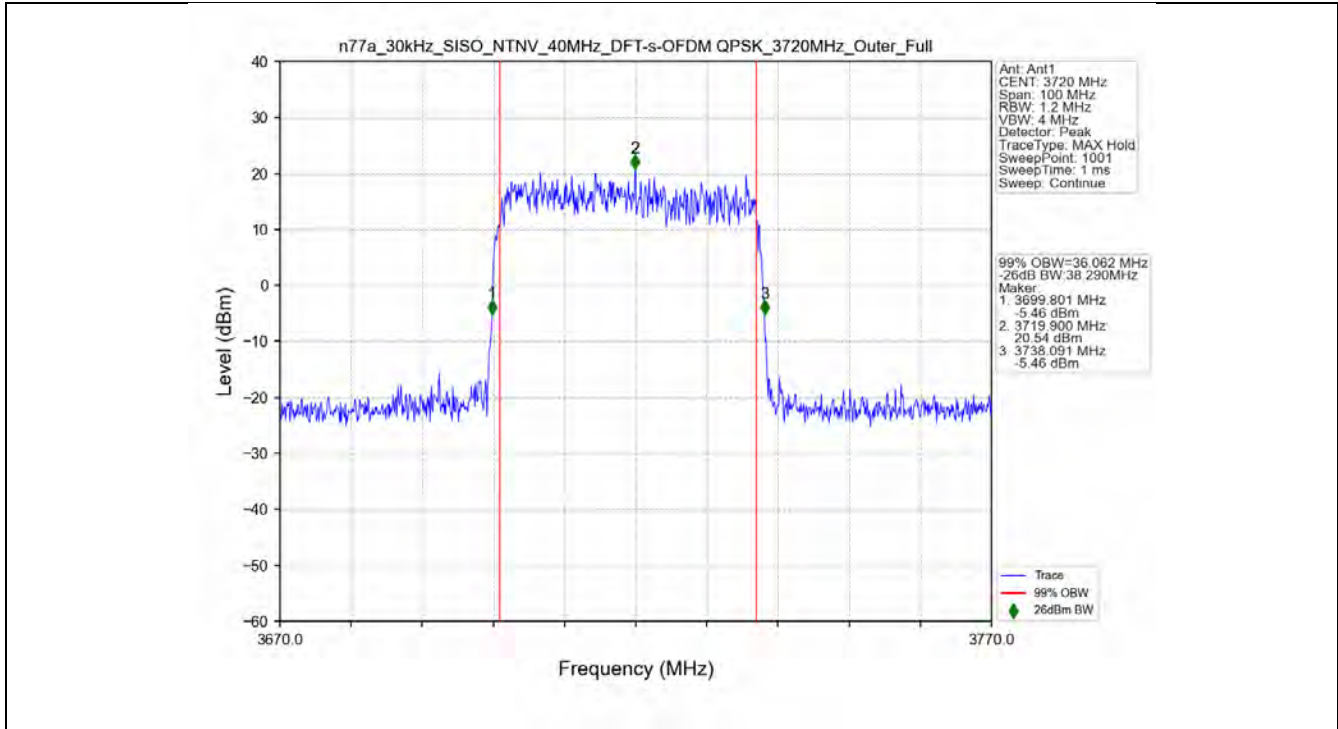


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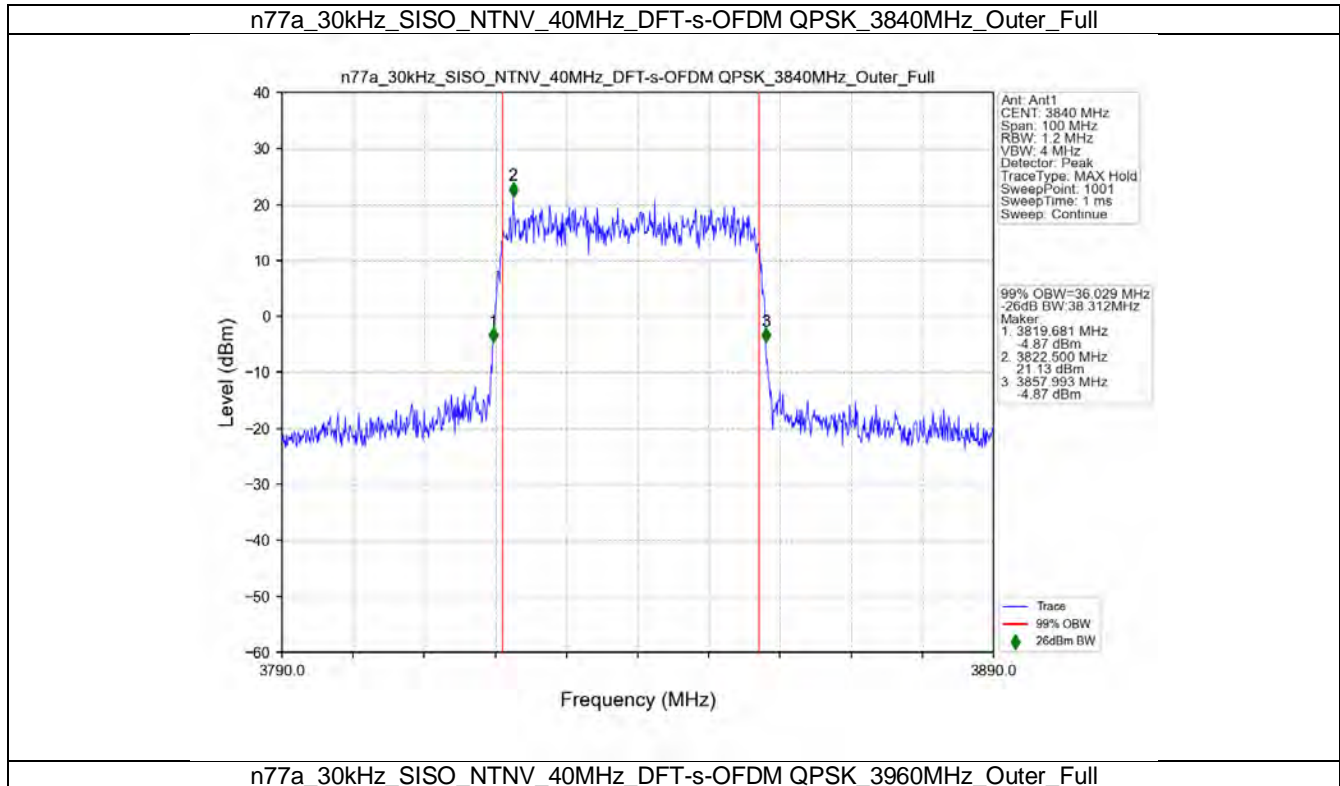


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Rev.: 01

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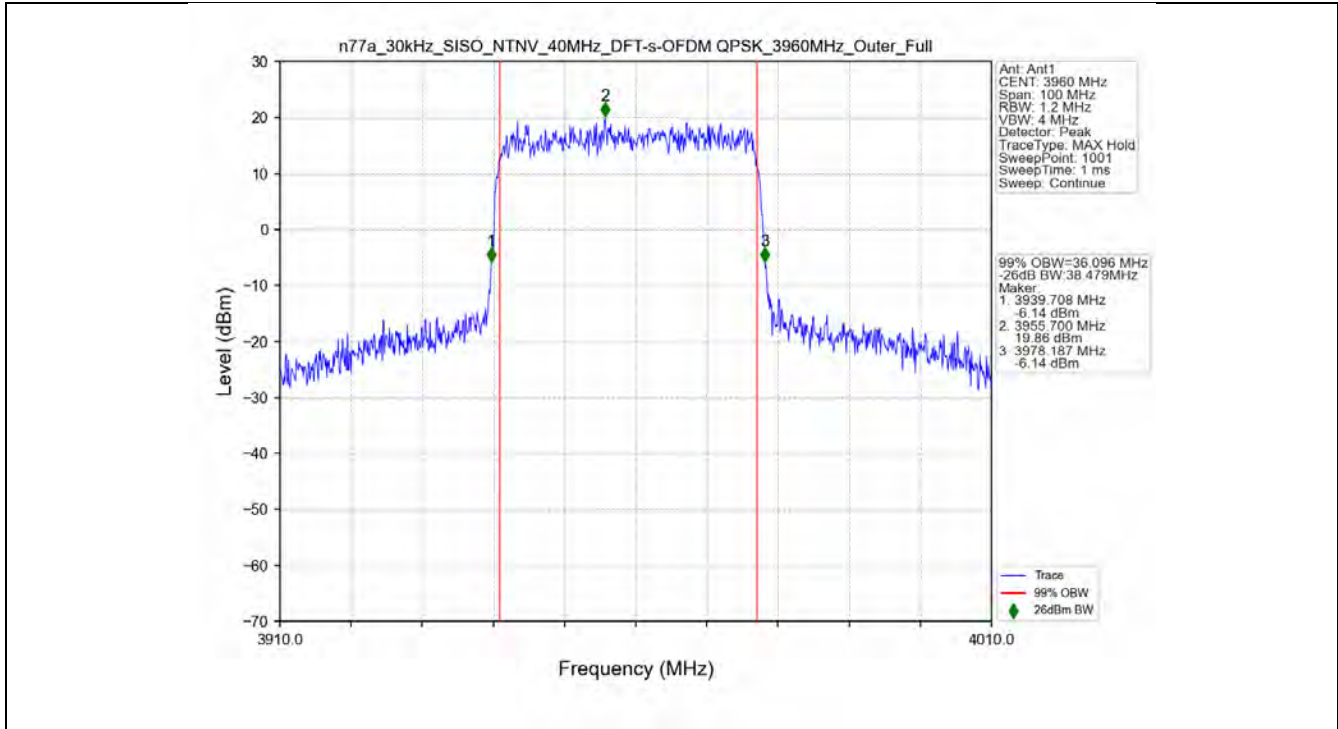


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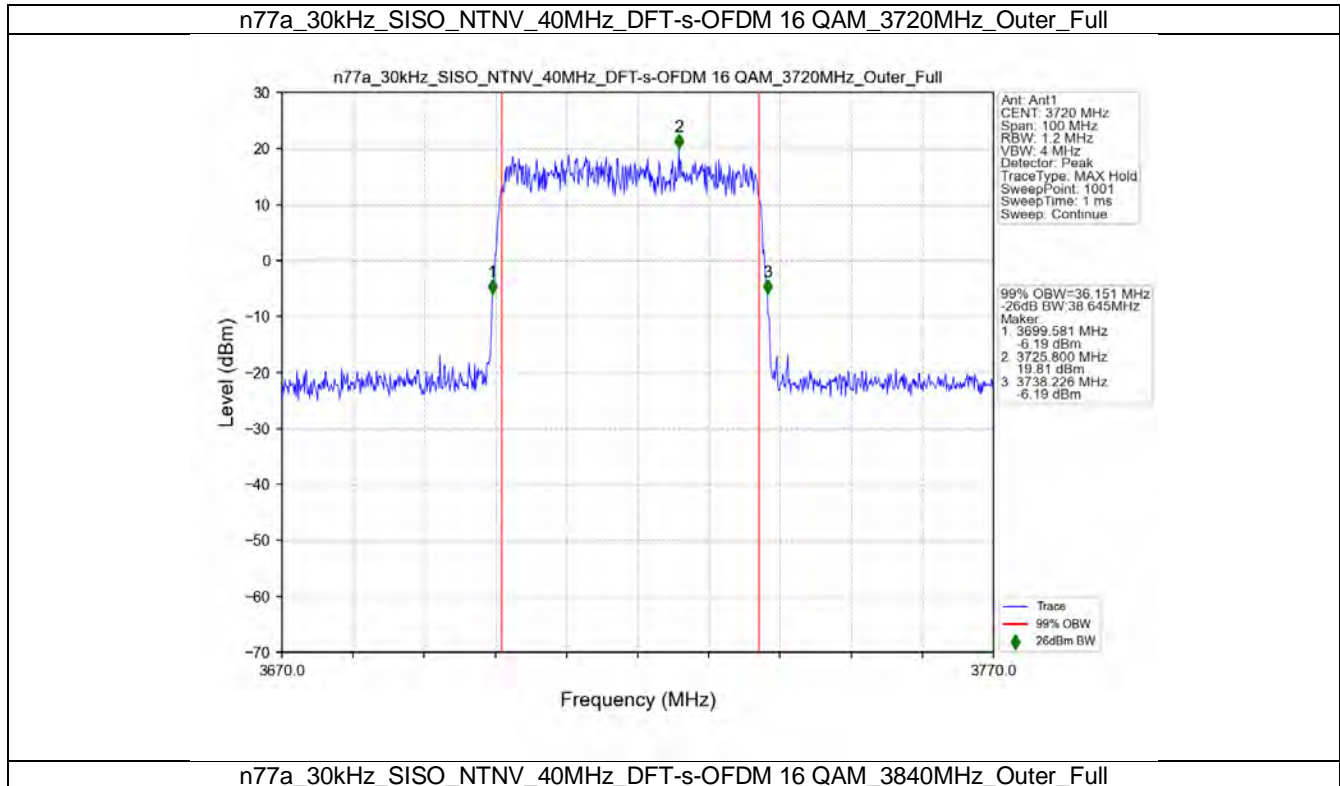


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Report No.: SZCR240100038409

Rev.: 01

Page: 112 of 973



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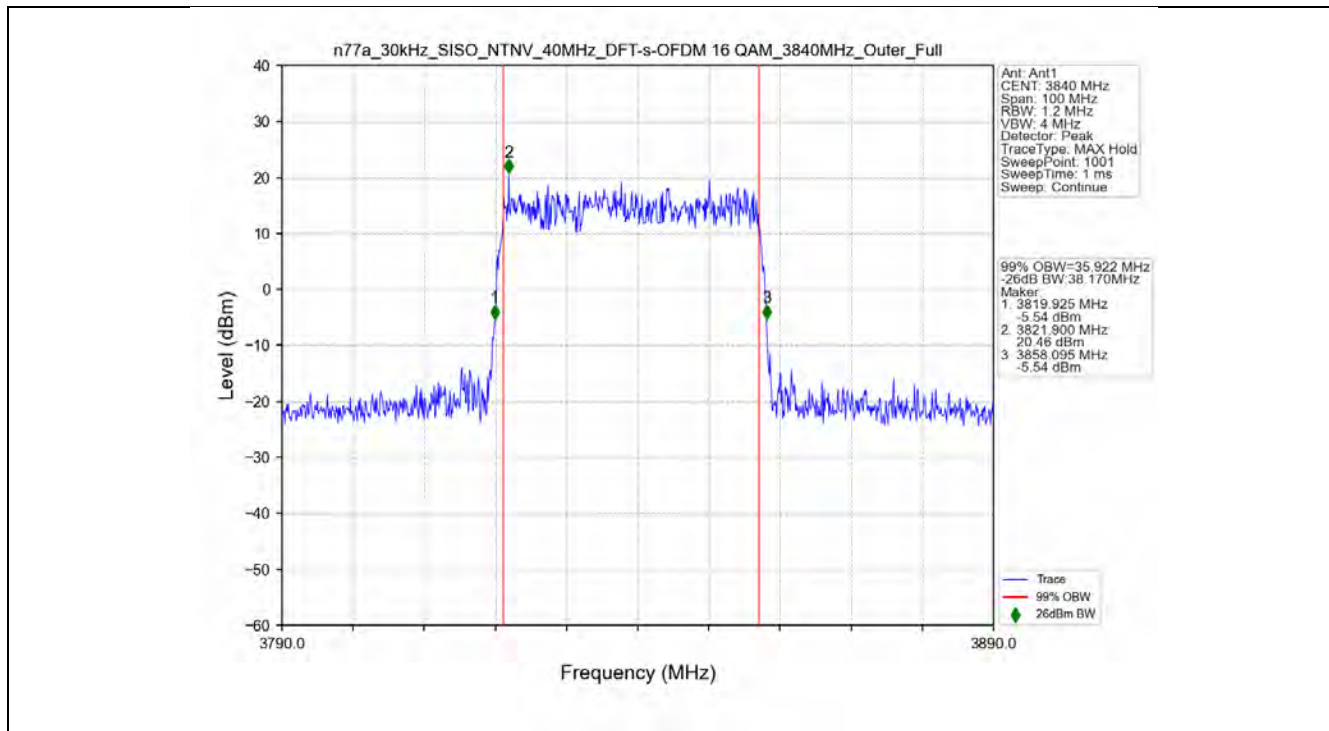
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Report No.: SZCR240100038409
Rev.: 01
Page: 113 of 973



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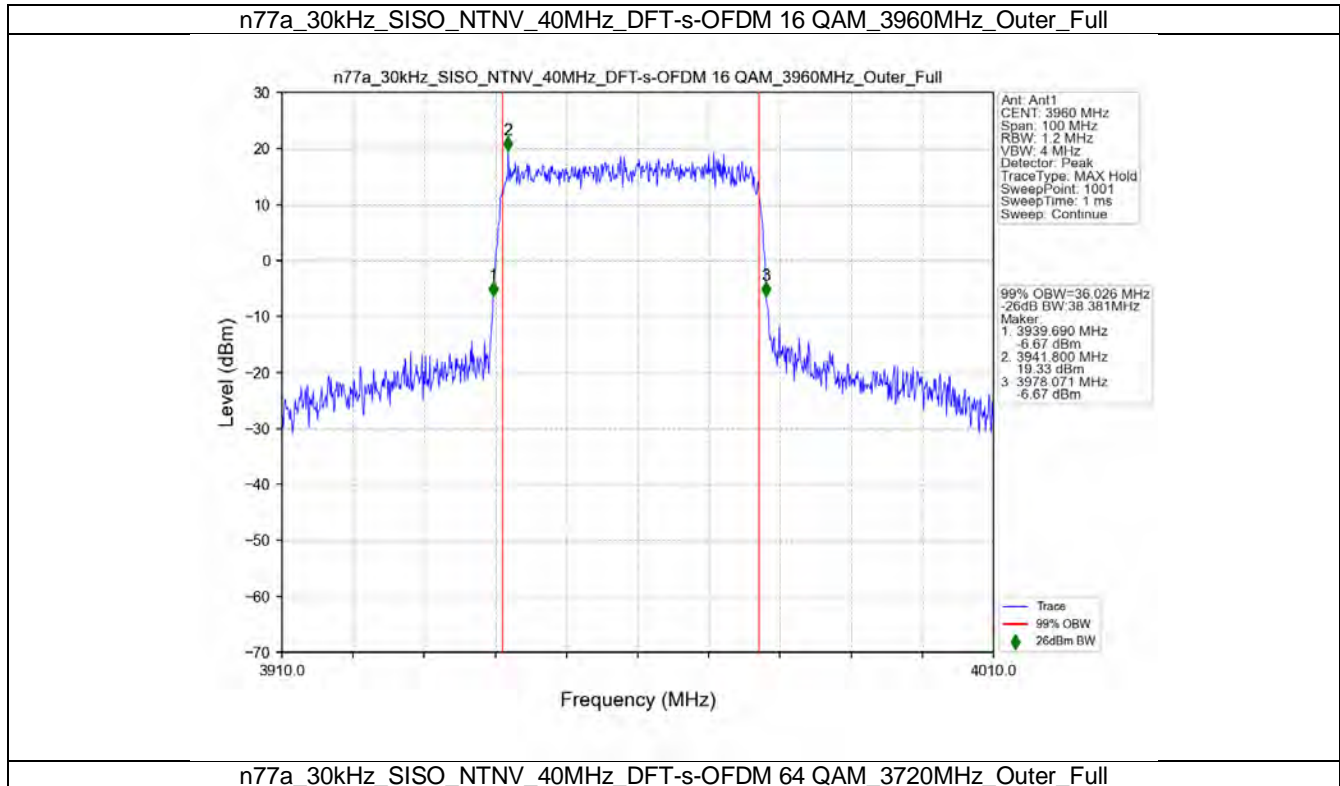


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Report No.: SZCR240100038409

Rev.: 01

Page: 114 of 973



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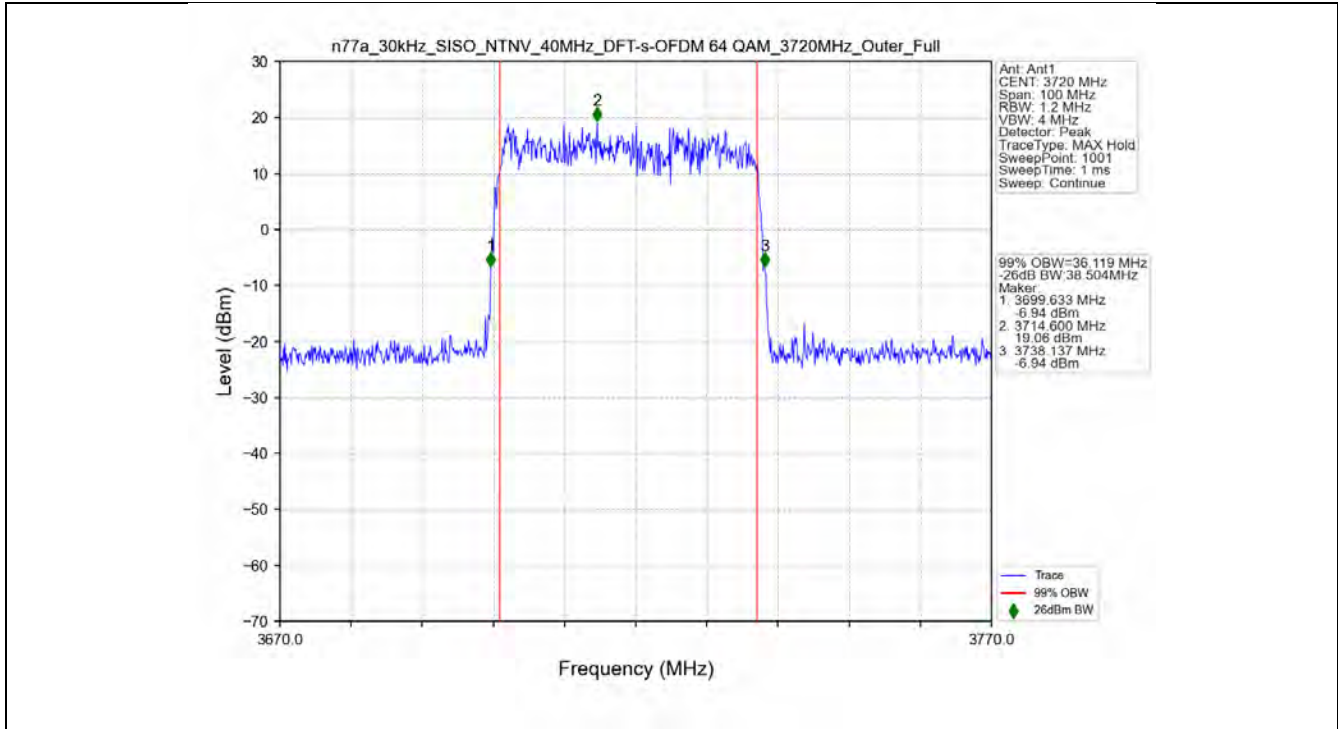


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Report No.: SZCR240100038409

Rev.: 01

Page: 115 of 973



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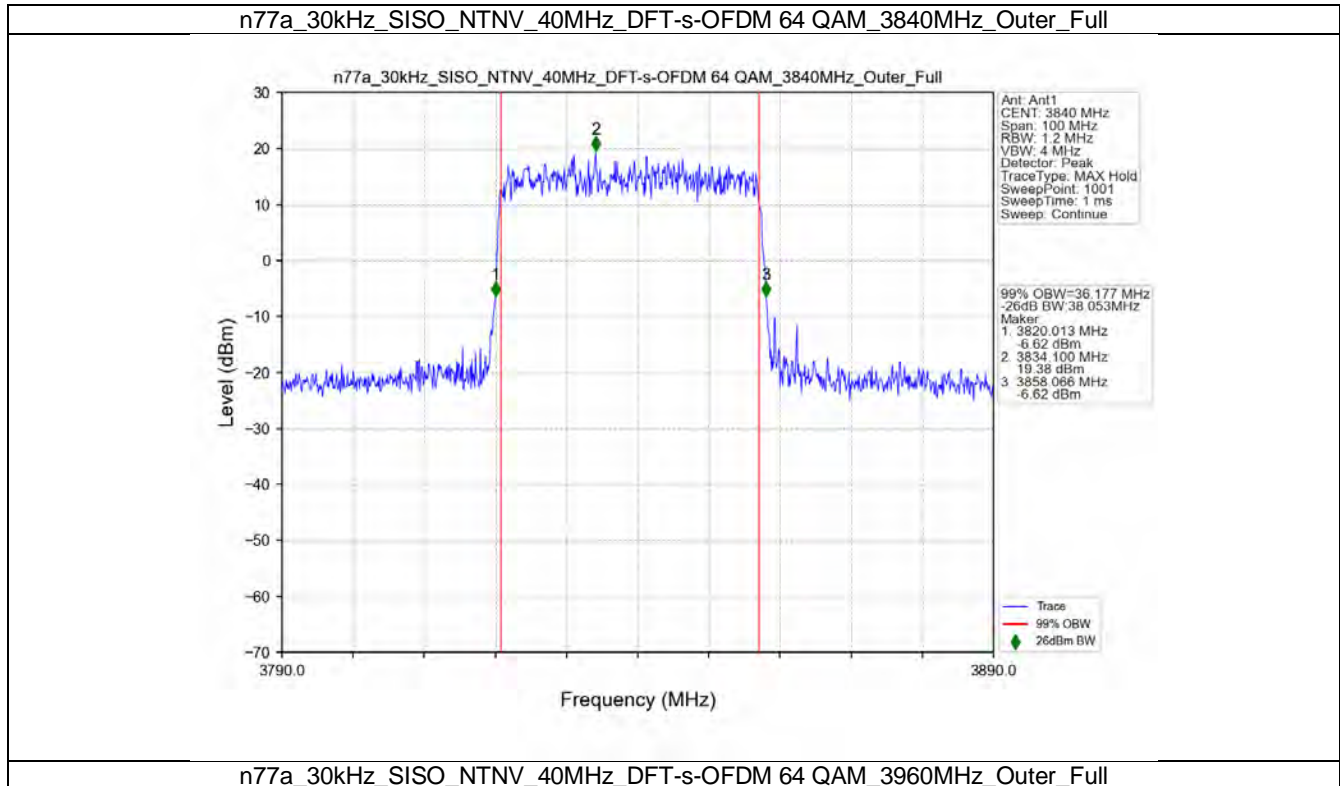


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Report No.: SZCR240100038409

Rev.: 01

Page: 116 of 973



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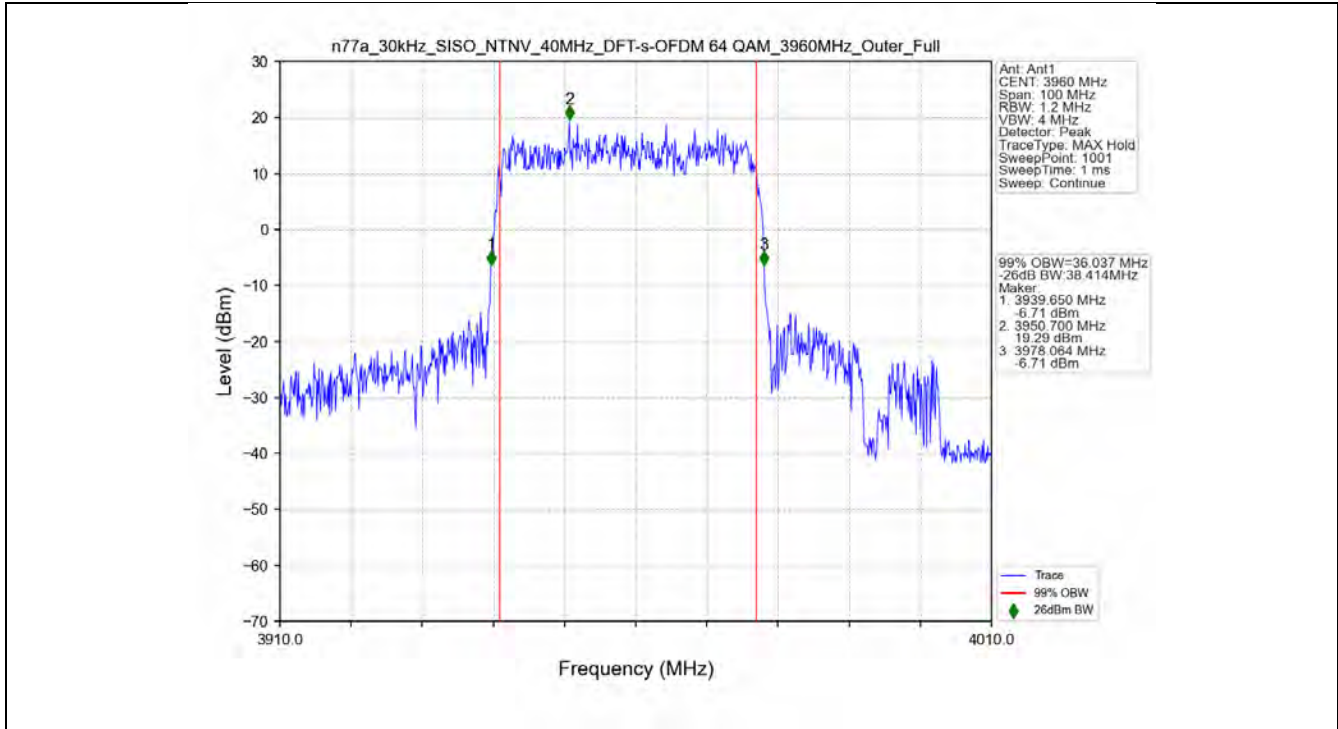


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Report No.: SZCR240100038409

Rev.: 01

Page: 117 of 973



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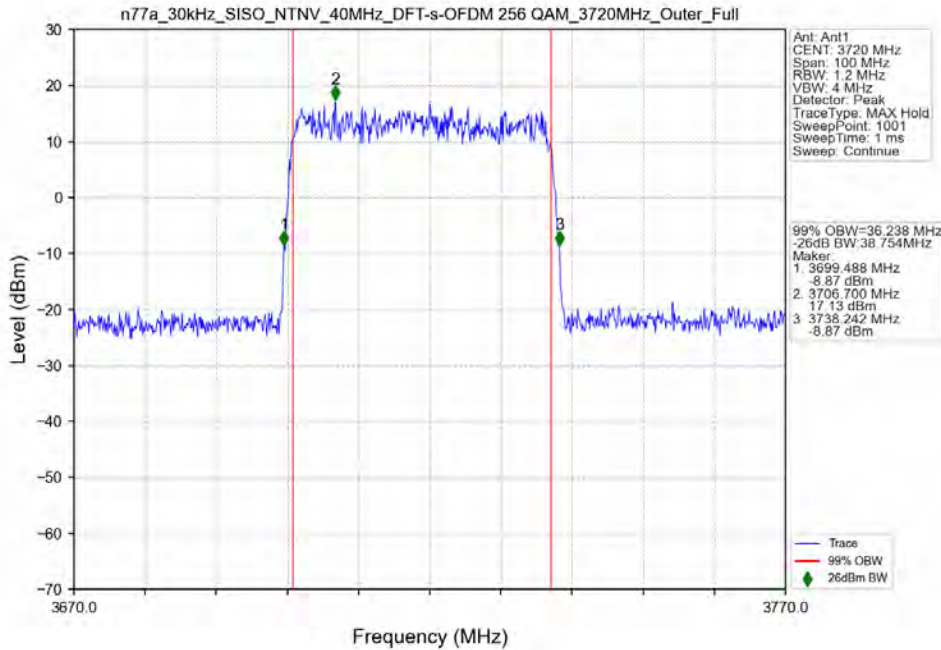
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Report No.: SZCR240100038409

Rev.: 01

Page: 118 of 973

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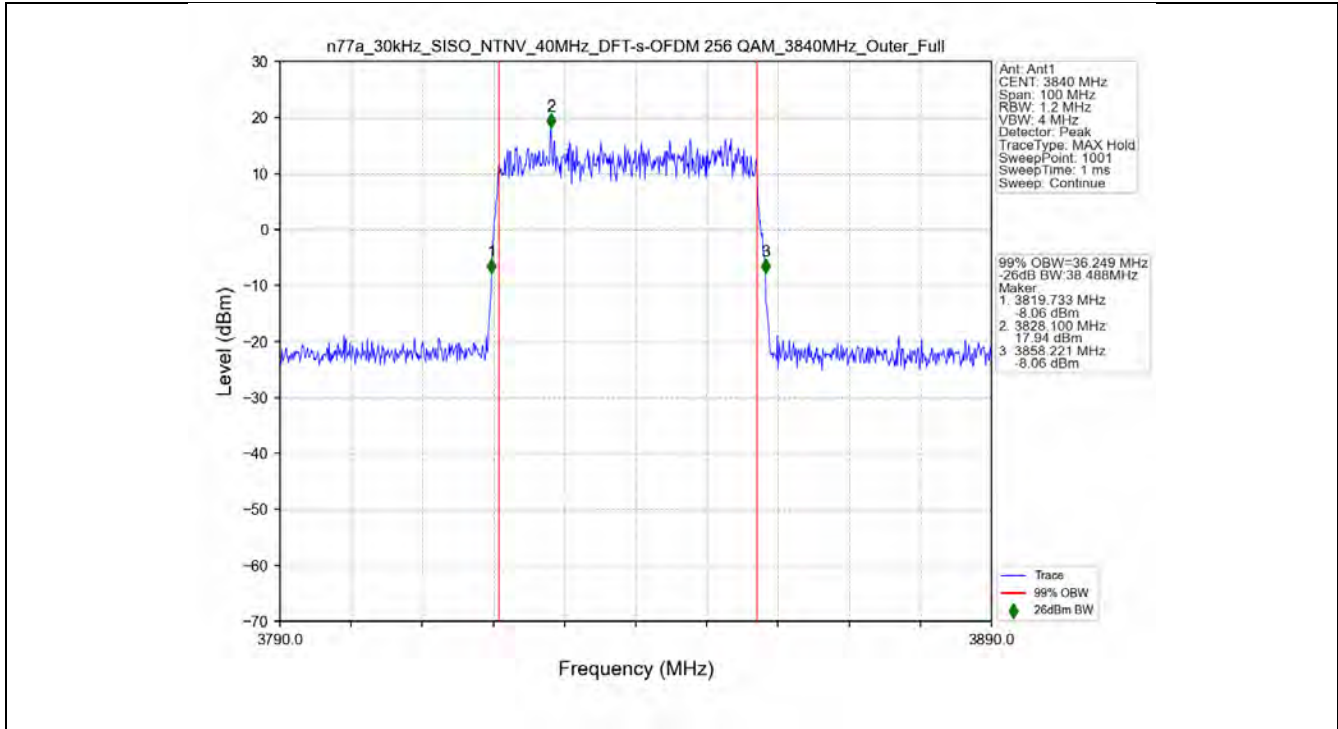


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Report No.: SZCR240100038409

Rev.: 01

Page: 119 of 973



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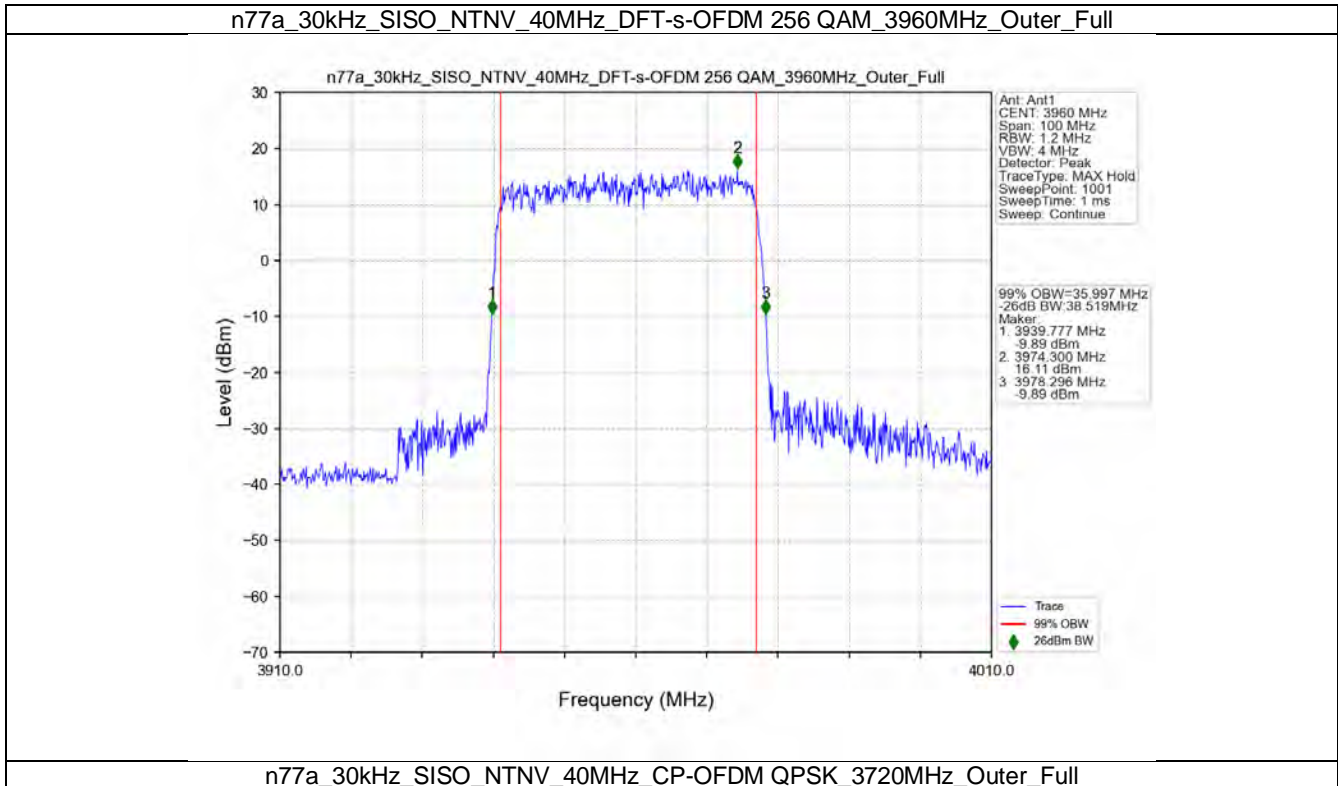


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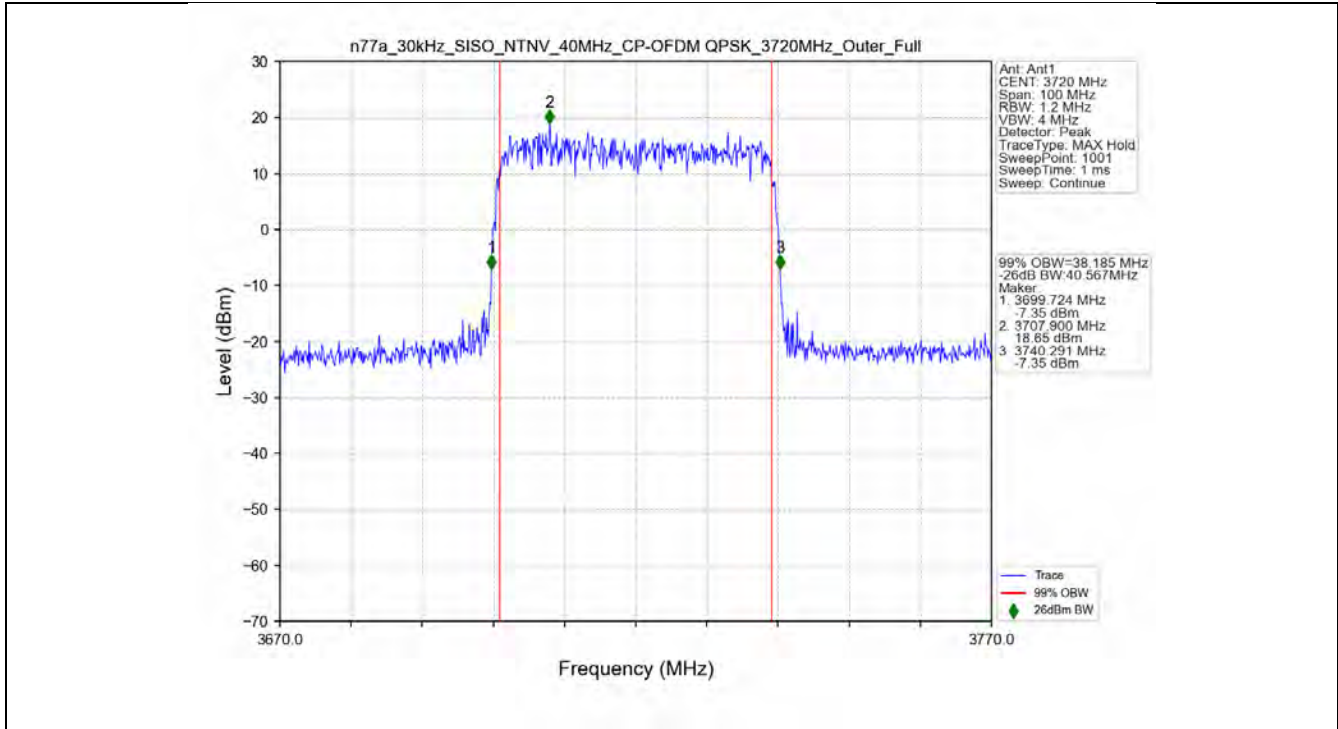


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Rev.: 01

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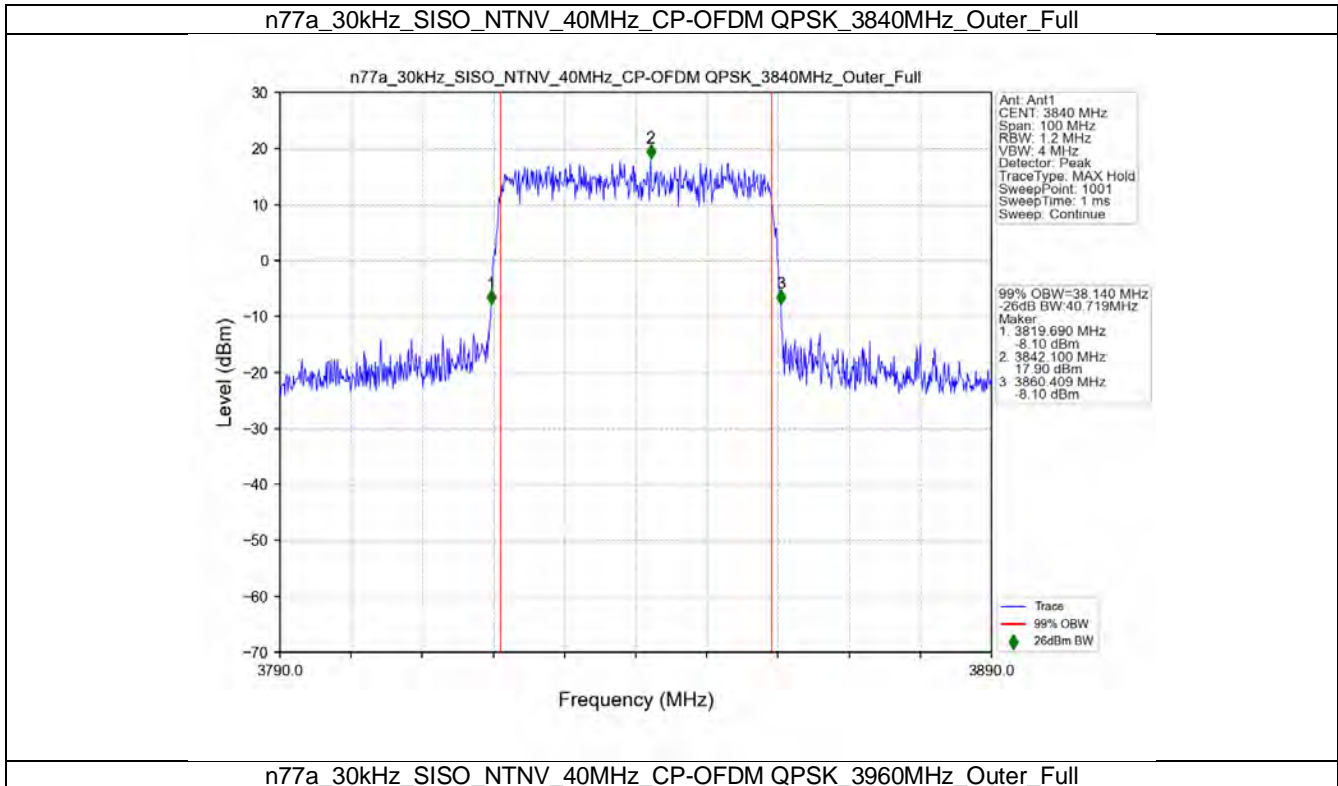


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Report No.: SZCR240100038409

Rev.: 01

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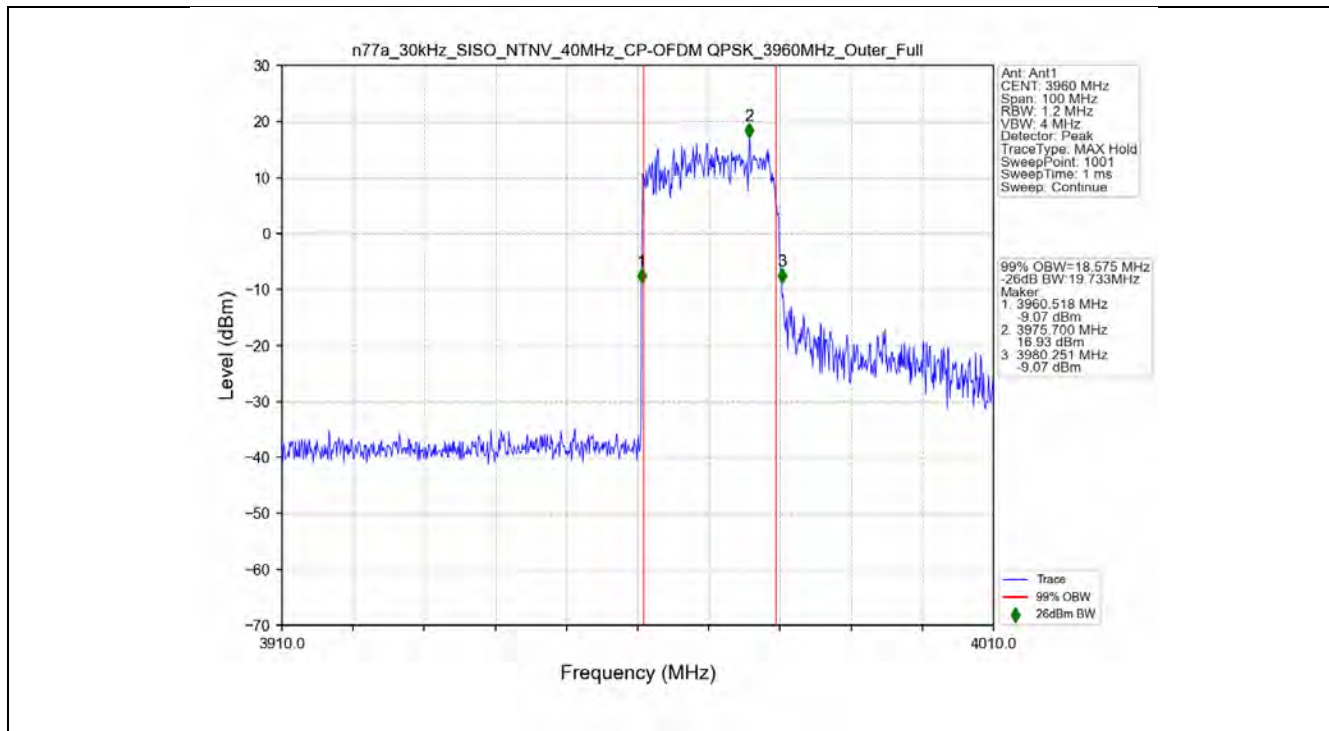
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Report No.: SZCR240100038409
 Rev.: 01
 Page: 123 of 973



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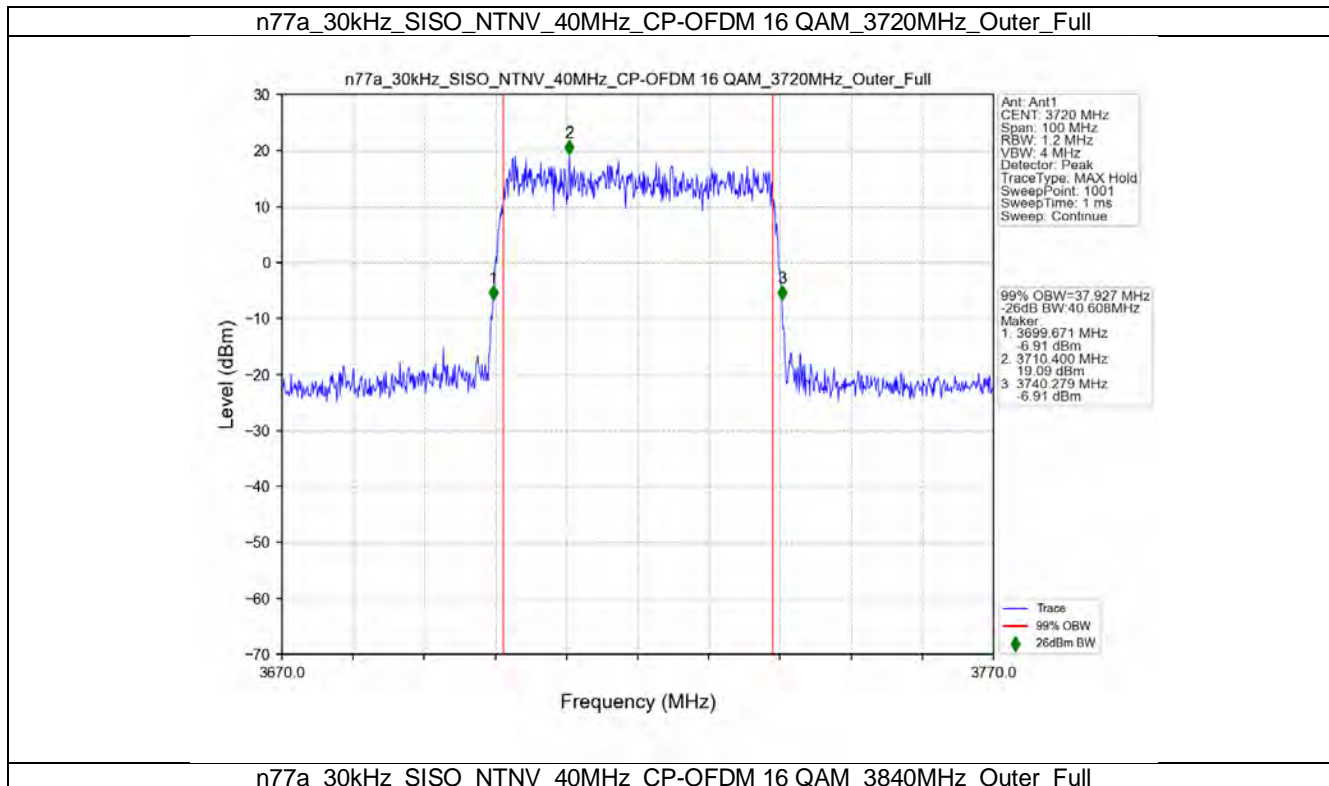
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Report No.: SZCR240100038409
Rev.: 01
Page: 124 of 973



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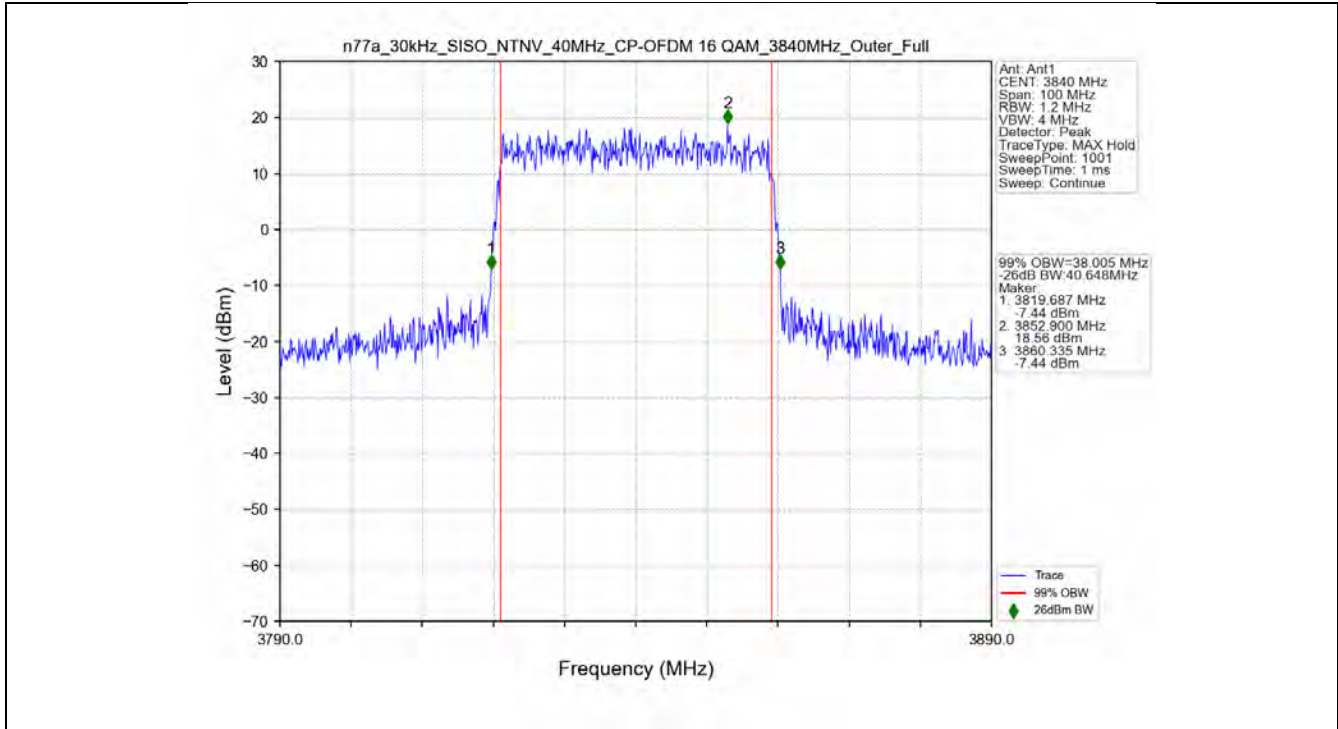


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Report No.: SZCR240100038409

Rev.: 01

Page: 125 of 973



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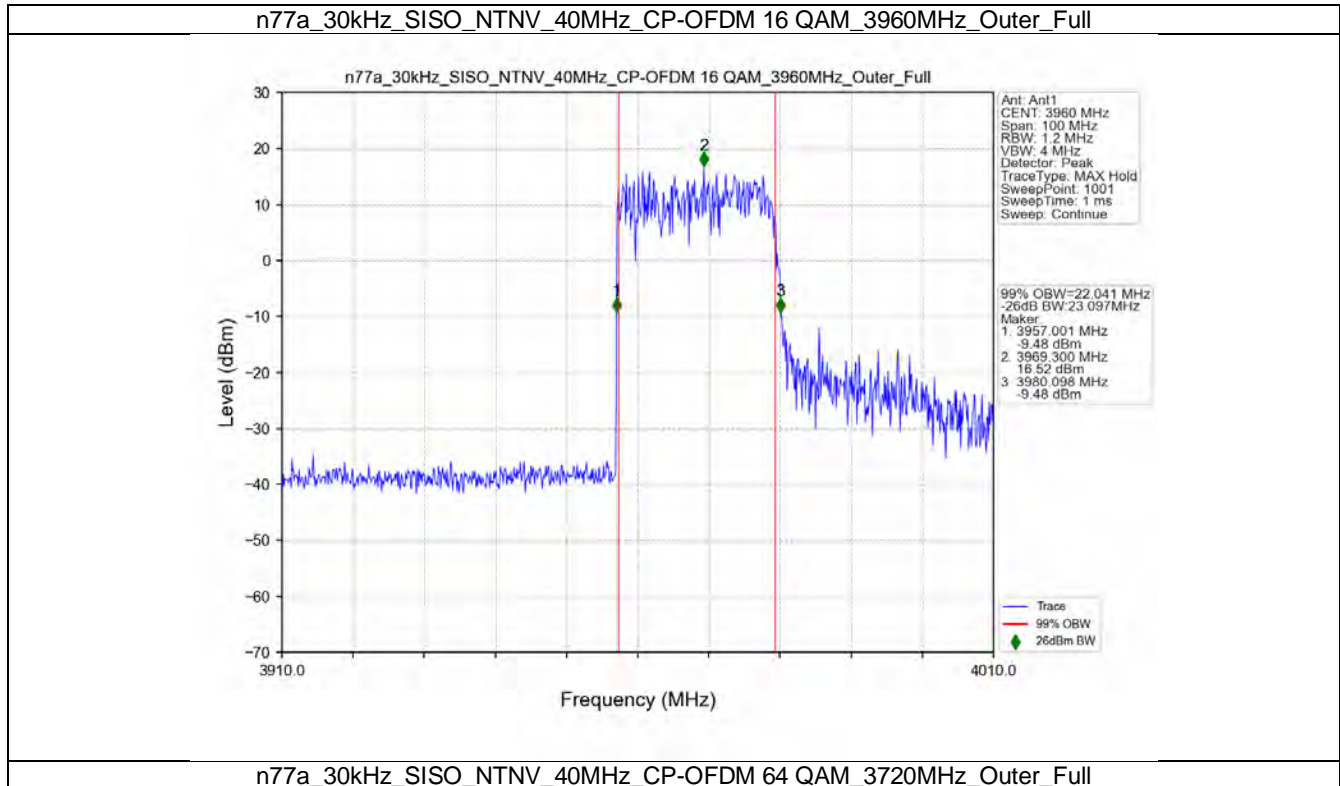


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Report No.: SZCR240100038409

Rev.: 01

Page: 126 of 973



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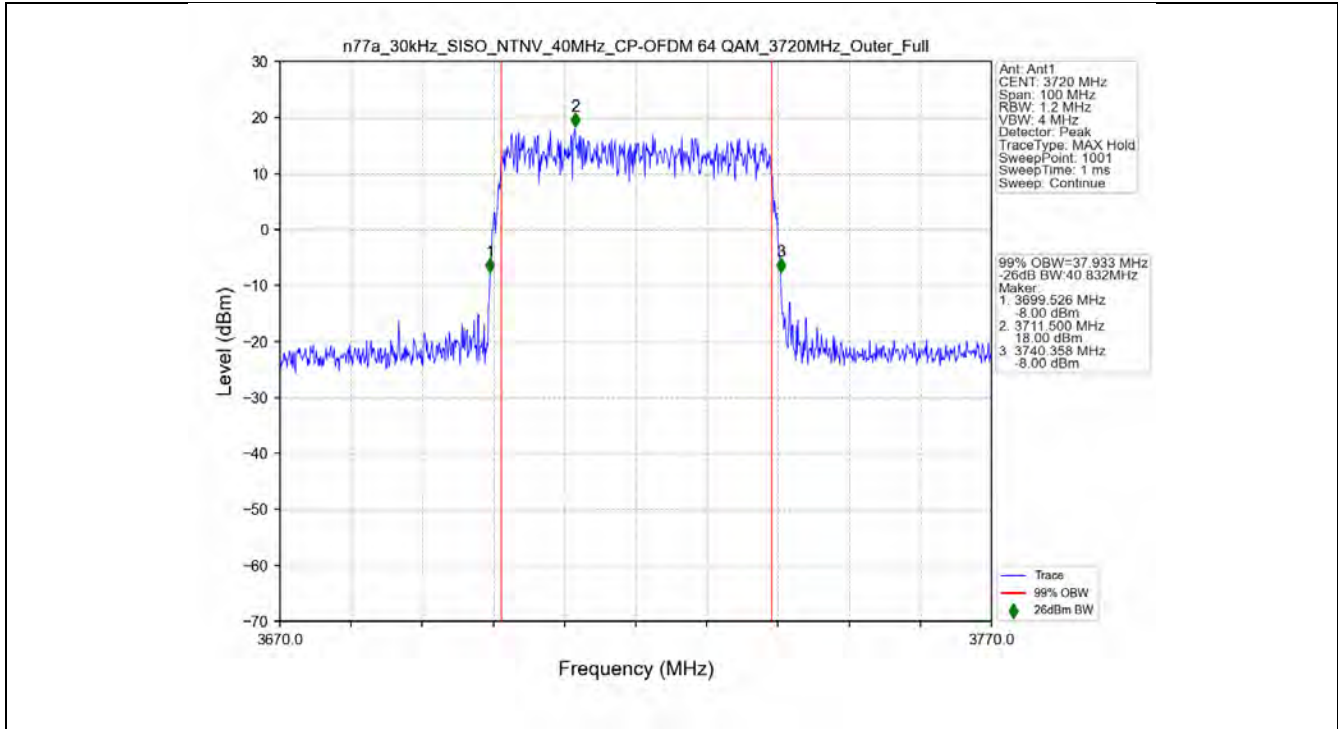


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Report No.: SZCR240100038409

Rev.: 01

Page: 127 of 973



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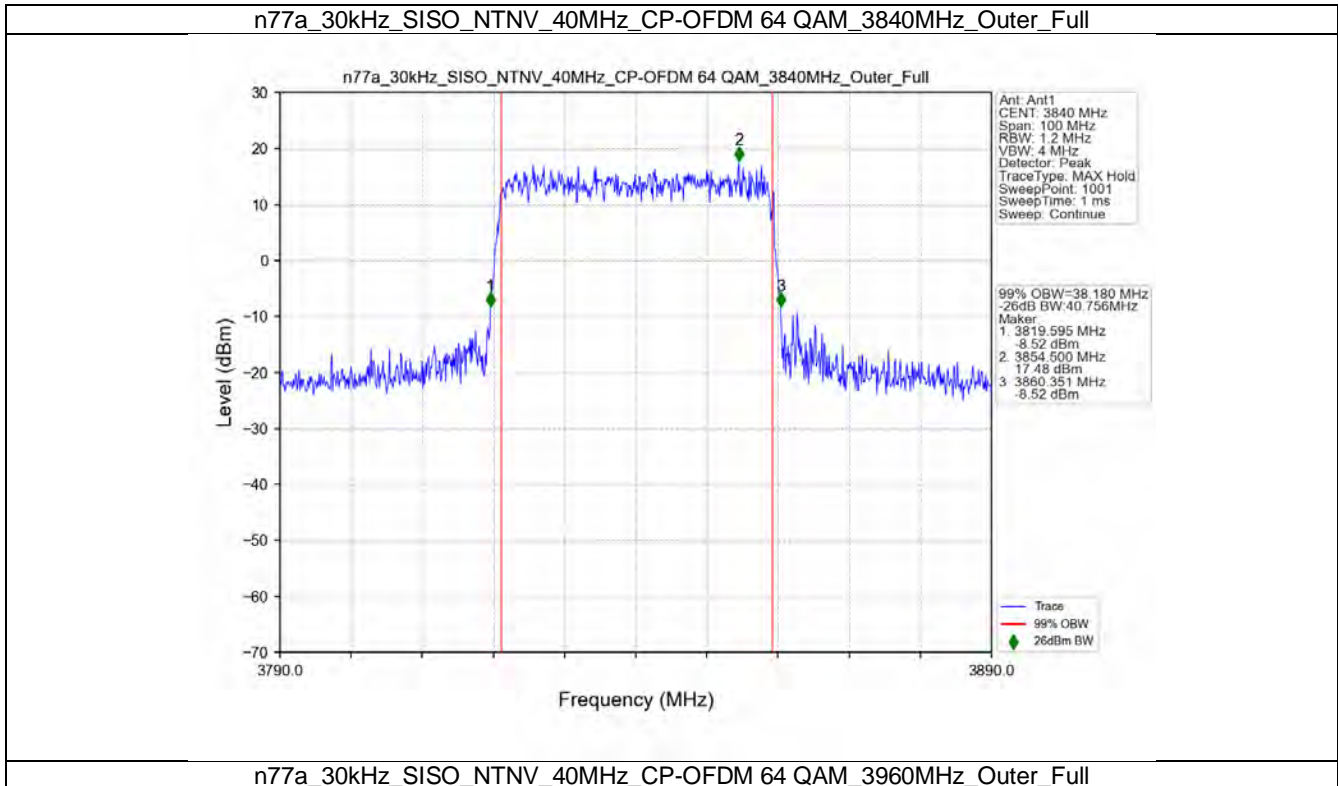


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Report No.: SZCR240100038409

Rev.: 01

Page: 128 of 973



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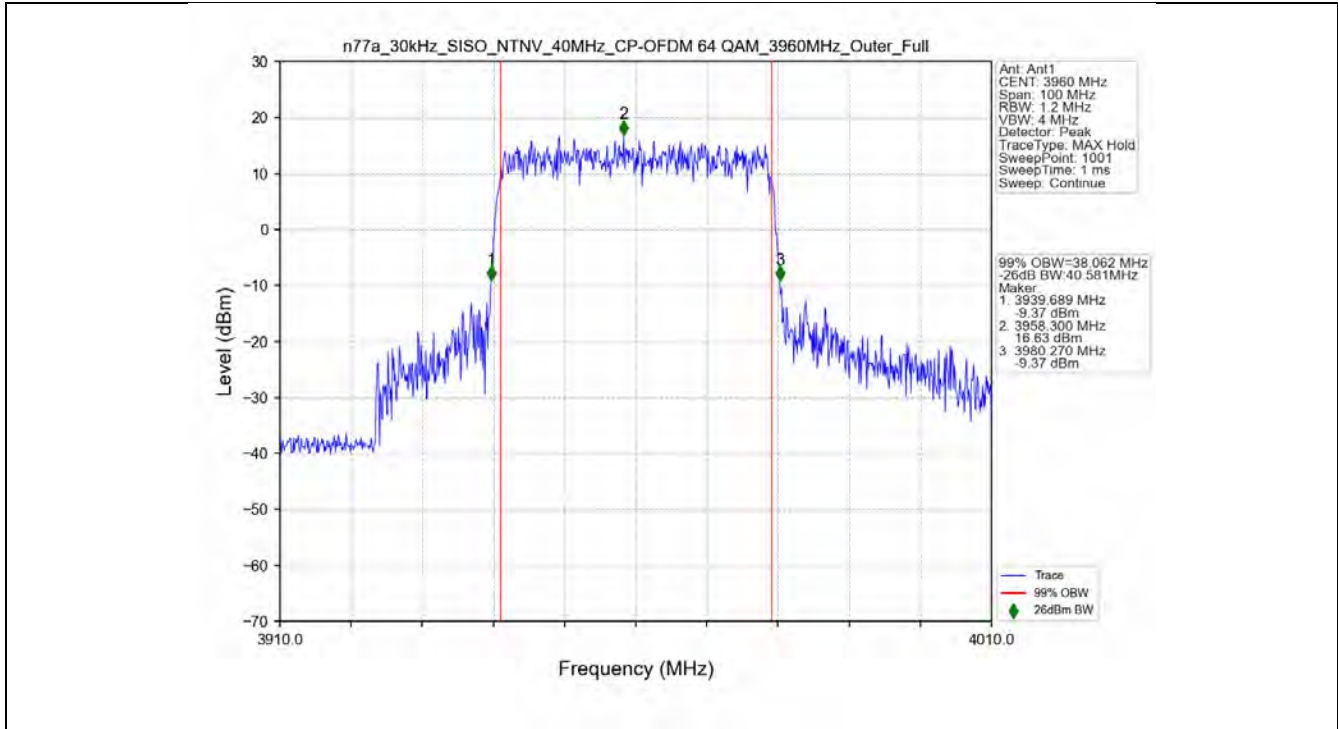


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Report No.: SZCR240100038409

Rev.: 01

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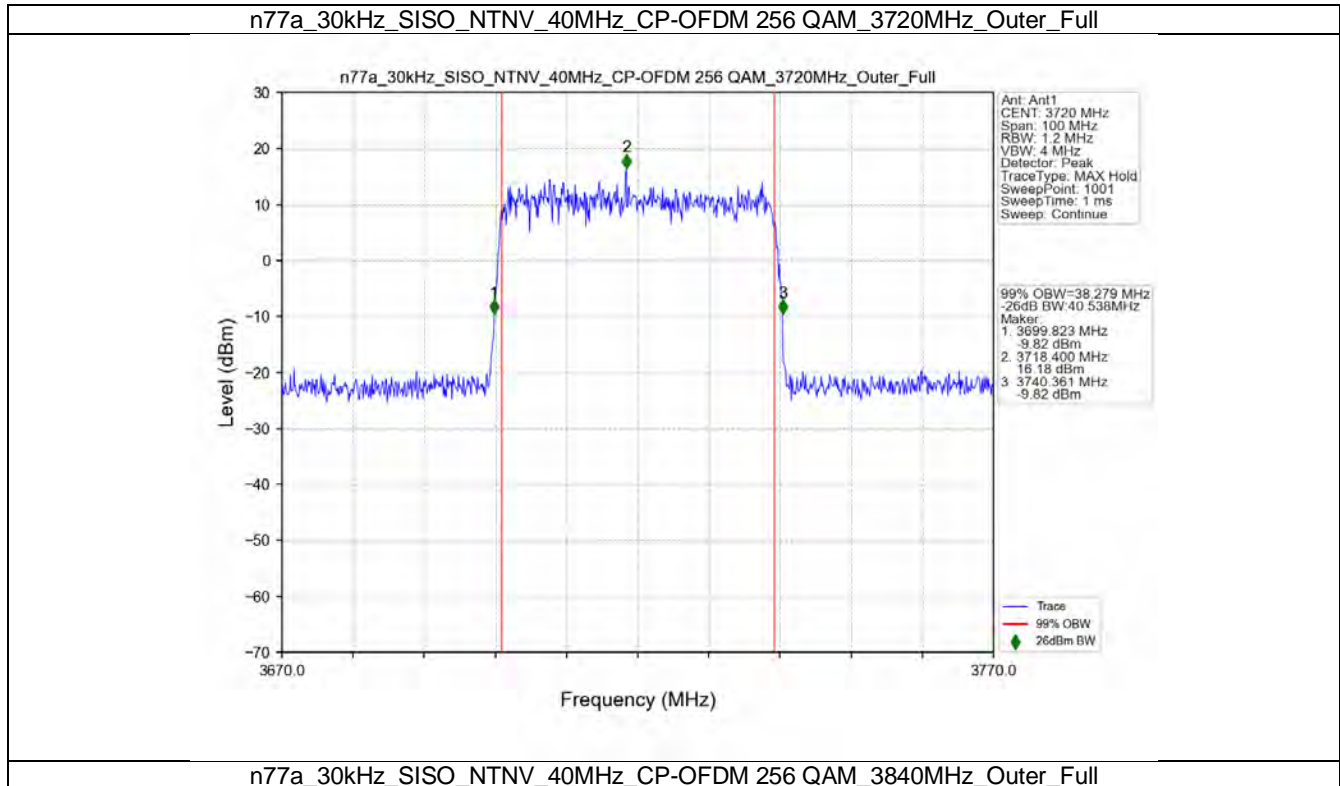


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Rev.: 01

Page: 130 of 973



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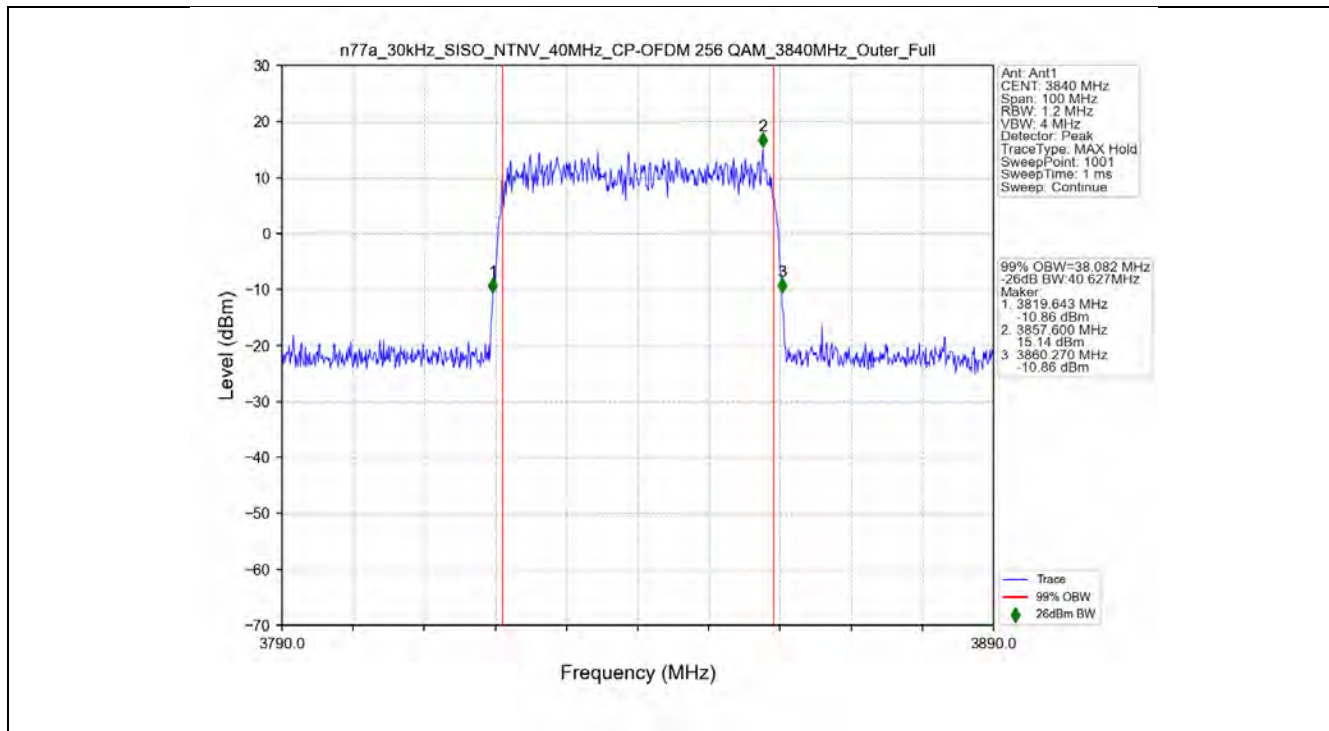
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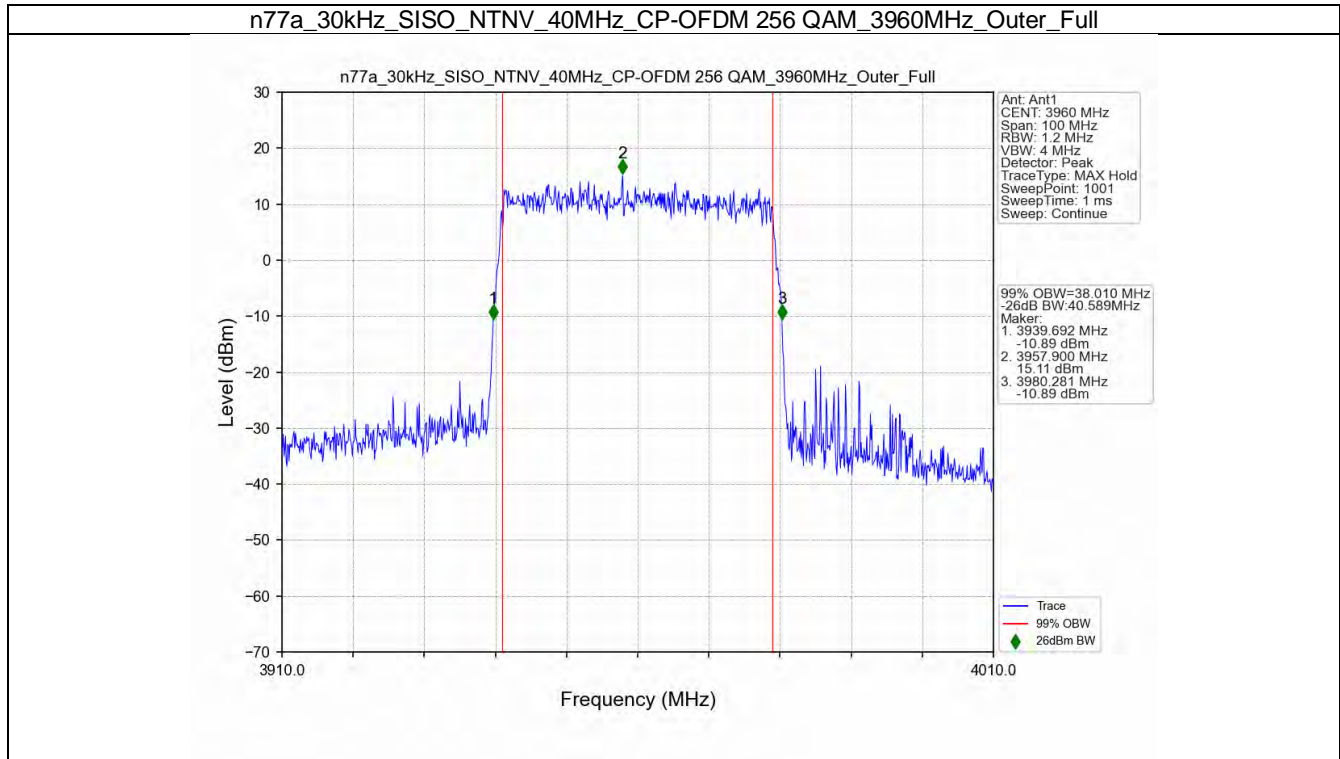


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Report No.: SZCR240100038409

Rev.: 01

Page: 133 of 973

3.4 30k_SISO_60MHz_NTNV

3.4.1 Test Result

5G NR n77a 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	3730.02	Outer_Full	58.25	61.85	/	Pass
	3840	Outer_Full	58.36	62.09	/	Pass
	3949.98	Outer_Full	58.21	62.10	/	Pass
DFT-s-OFDM QPSK	3730.02	Outer_Full	58.21	62.23	/	Pass
	3840	Outer_Full	58.56	62.25	/	Pass
	3949.98	Outer_Full	58.43	62.21	/	Pass
DFT-s-OFDM 16 QAM	3730.02	Outer_Full	58.45	62.01	/	Pass
	3840	Outer_Full	57.76	62.01	/	Pass
	3949.98	Outer_Full	58.35	62.27	/	Pass
DFT-s-OFDM 64 QAM	3730.02	Outer_Full	58.48	61.99	/	Pass
	3840	Outer_Full	58.44	62.23	/	Pass
	3949.98	Outer_Full	58.45	61.98	/	Pass
DFT-s-OFDM 256 QAM	3730.02	Outer_Full	58.21	62.15	/	Pass
	3840	Outer_Full	58.65	61.82	/	Pass
	3949.98	Outer_Full	58.13	62.01	/	Pass
CP-OFDM QPSK	3730.02	Outer_Full	58.25	62.05	/	Pass
	3840	Outer_Full	58.14	61.98	/	Pass
	3949.98	Outer_Full	58.08	62.01	/	Pass
CP-OFDM 16 QAM	3730.02	Outer_Full	58.40	61.83	/	Pass
	3840	Outer_Full	58.51	62.19	/	Pass
	3949.98	Outer_Full	58.17	62.11	/	Pass
CP-OFDM 64 QAM	3730.02	Outer_Full	58.41	62.20	/	Pass
	3840	Outer_Full	58.22	62.44	/	Pass
	3949.98	Outer_Full	58.20	61.49	/	Pass
CP-OFDM 256 QAM	3730.02	Outer_Full	58.11	61.86	/	Pass
	3840	Outer_Full	58.26	61.64	/	Pass
	3949.98	Outer_Full	58.07	61.70	/	Pass



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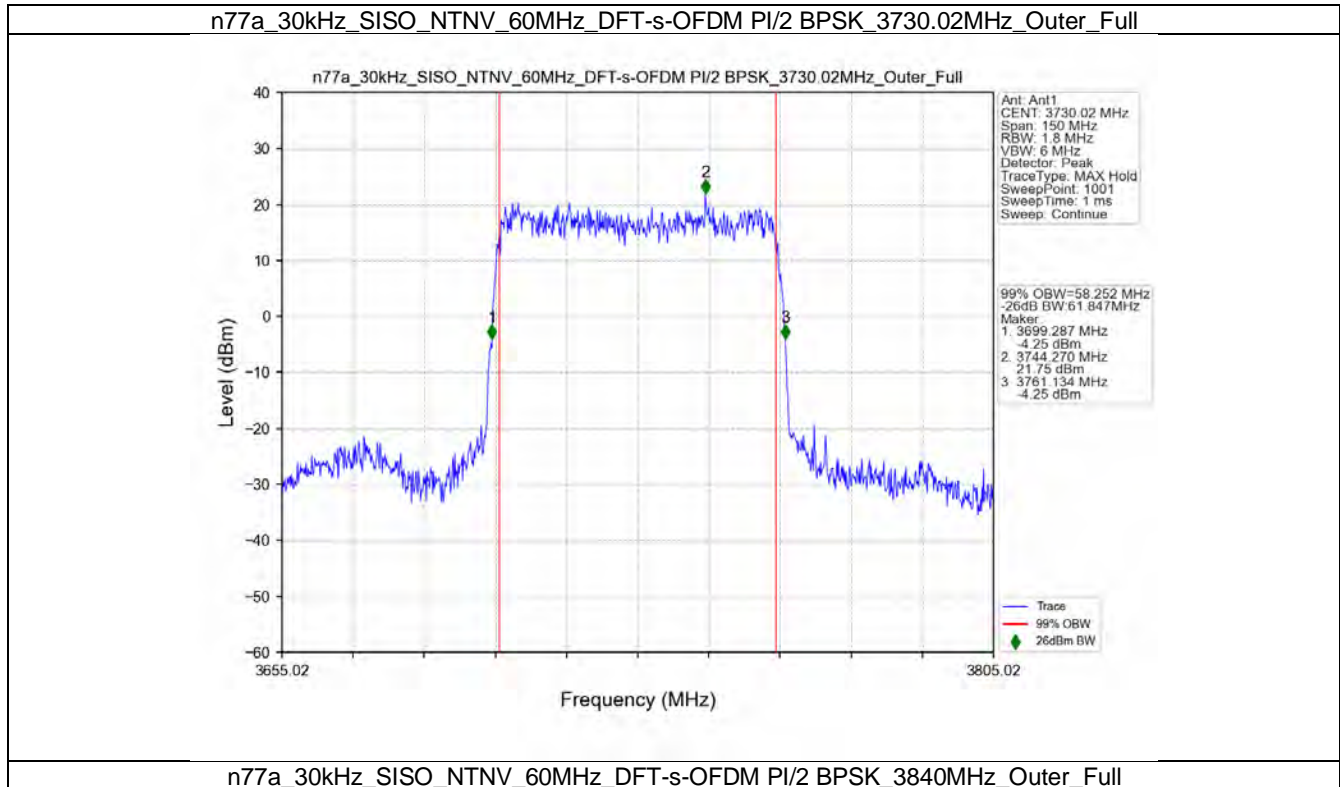


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3.4.2 Test Graph



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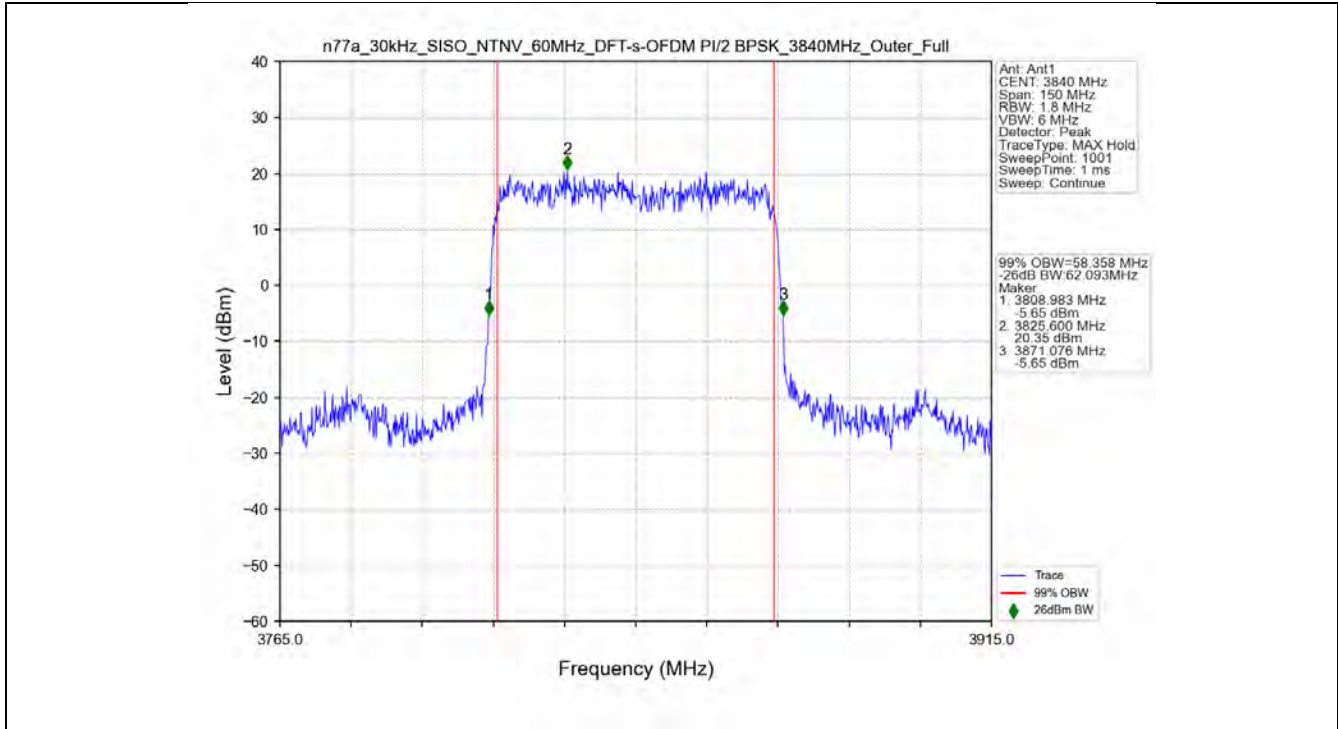


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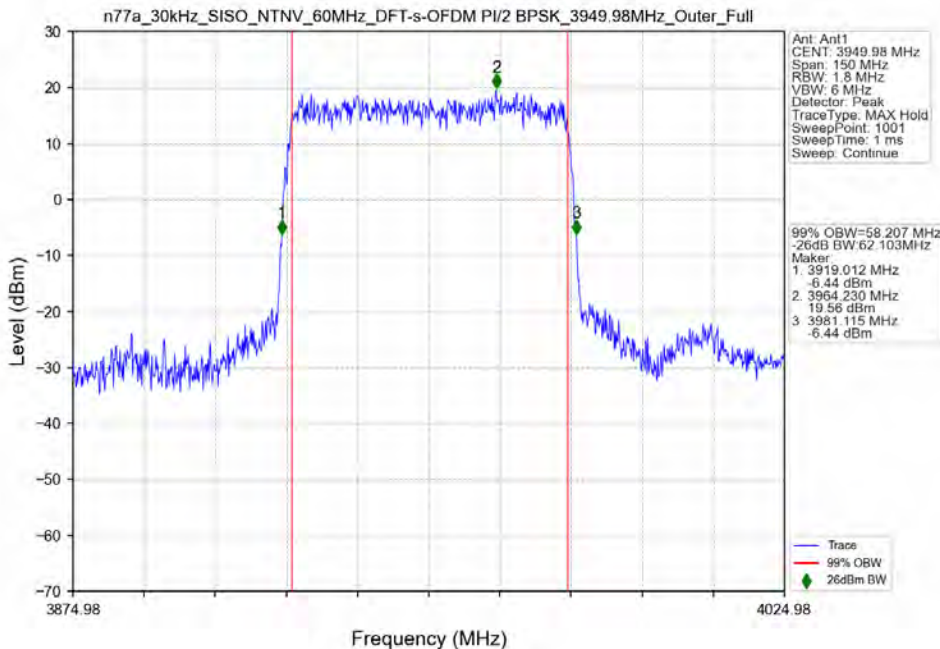
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Report No.: SZCR240100038409
Rev.: 01
Page: 136 of 973

n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_3949.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3730.02MHz_Outer_Full



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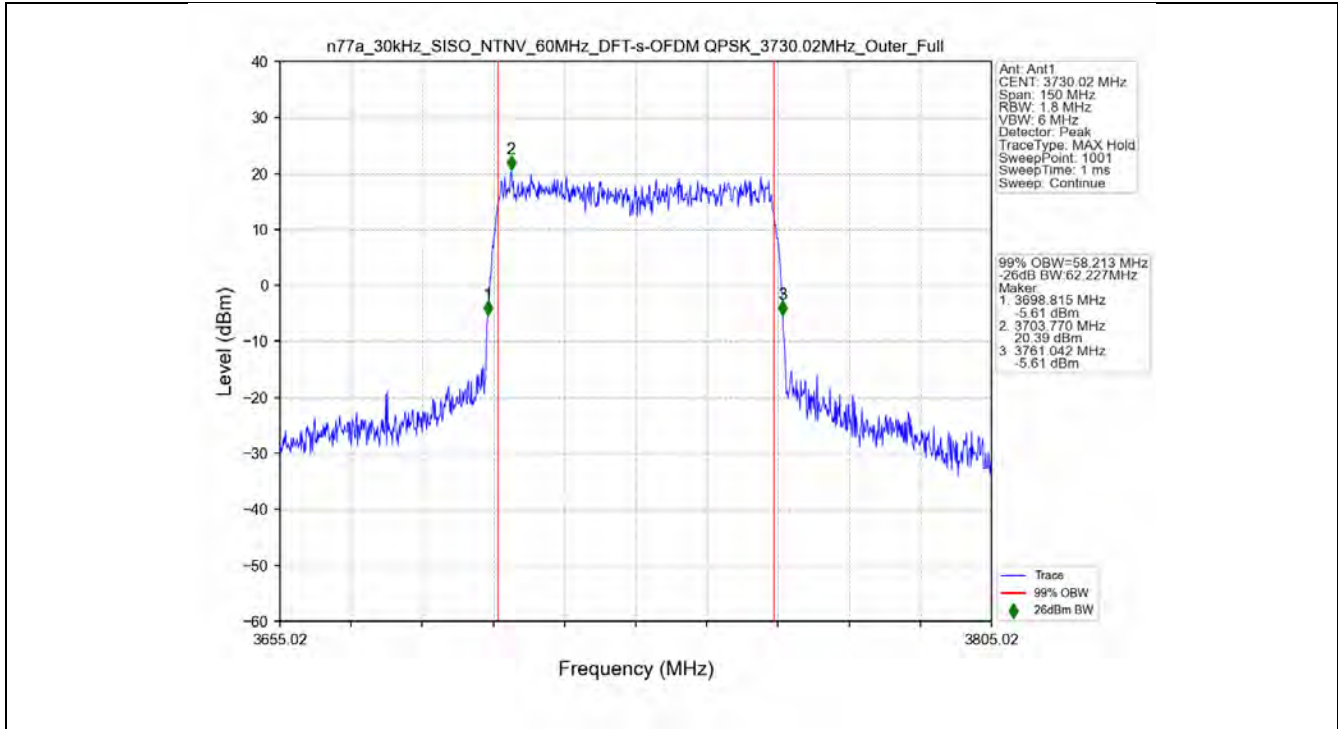


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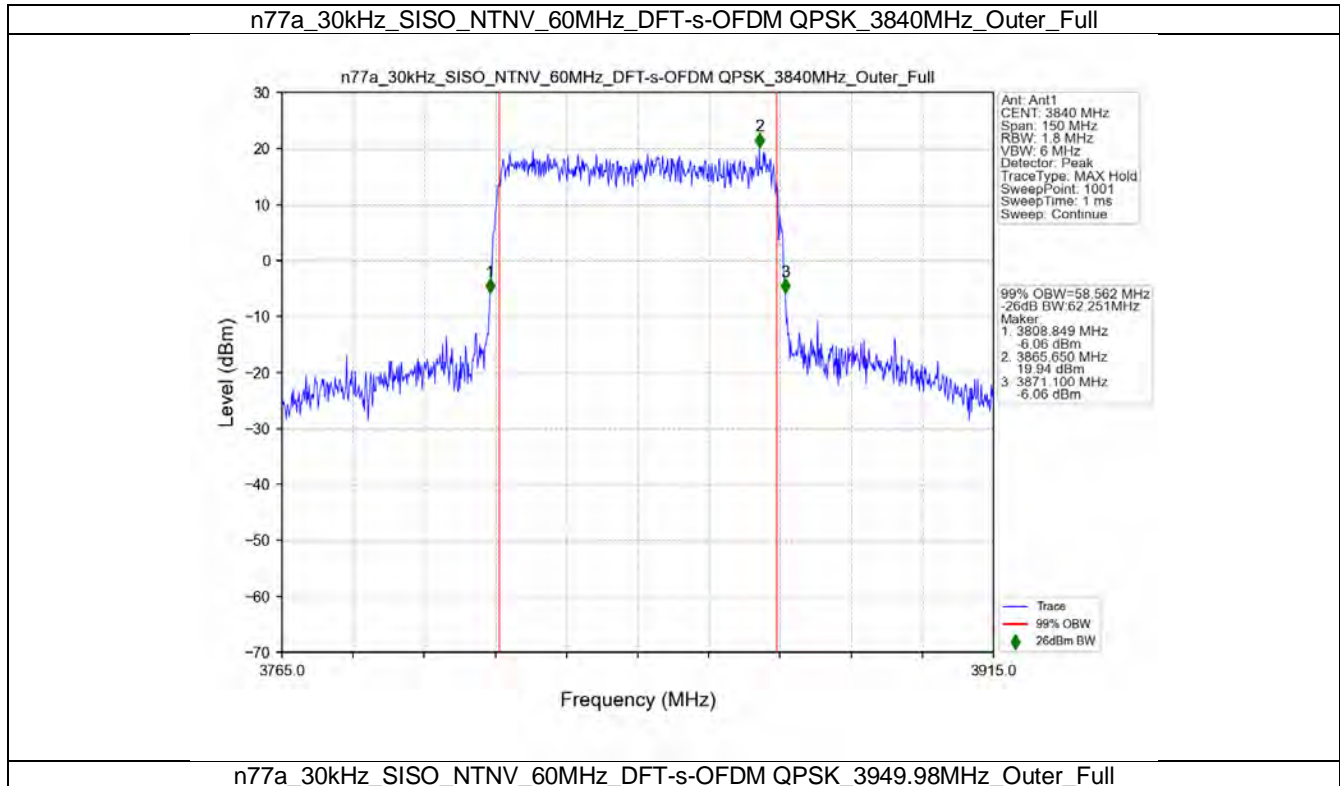


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Rev.: 01

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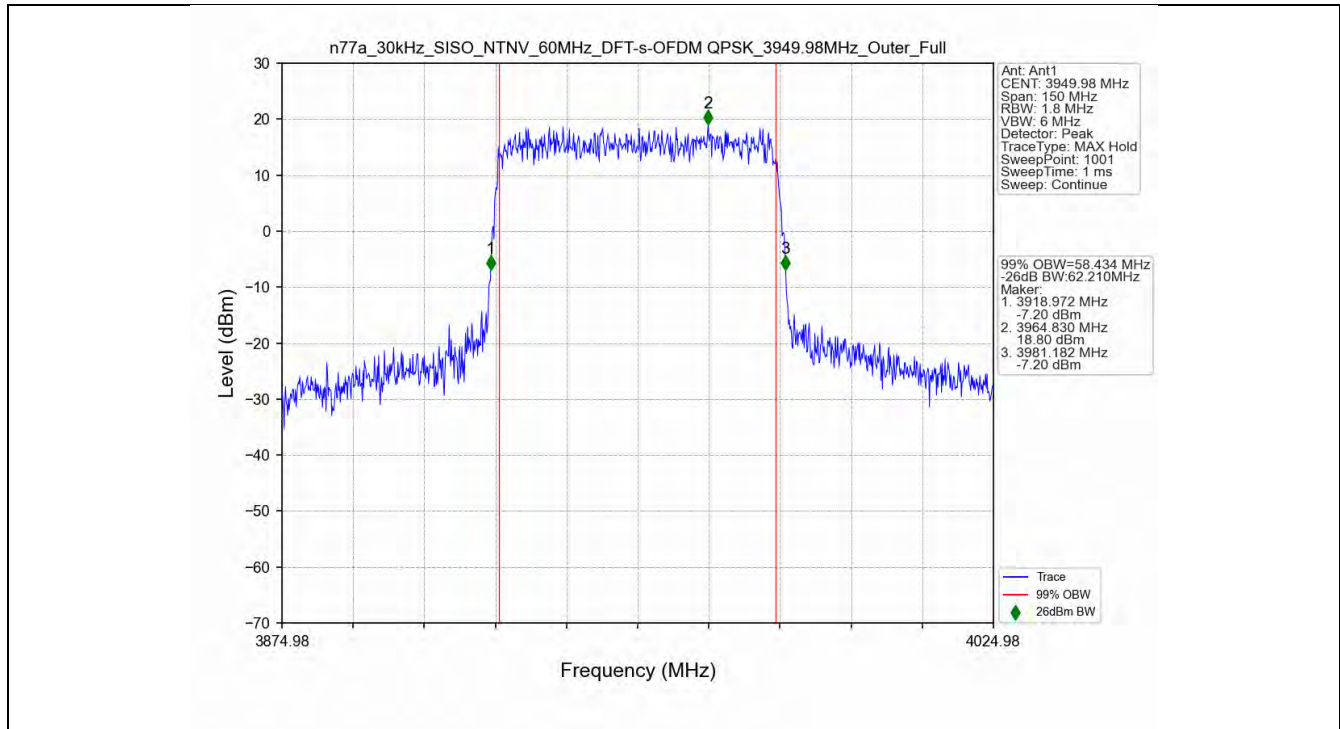


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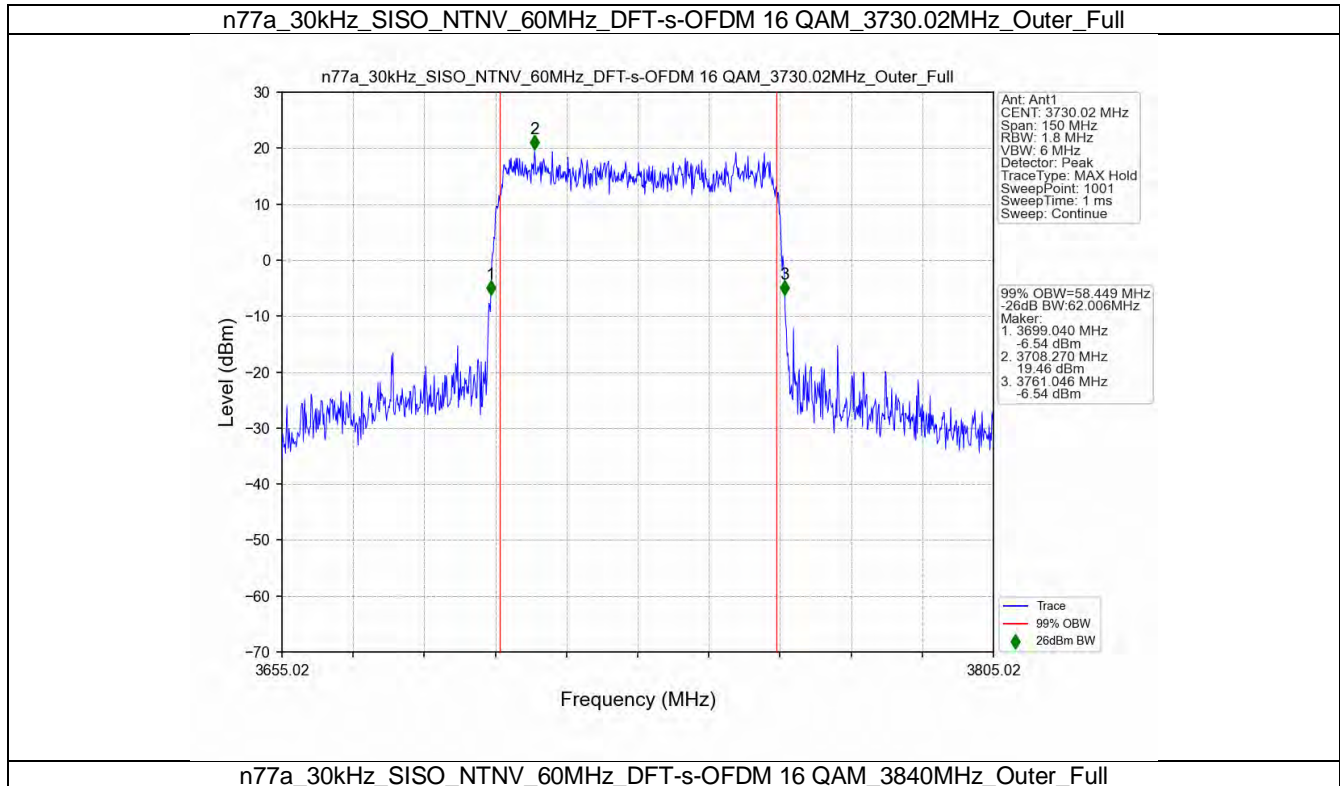


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Report No.: SZCR240100038409

Rev.: 01

Page: 140 of 973



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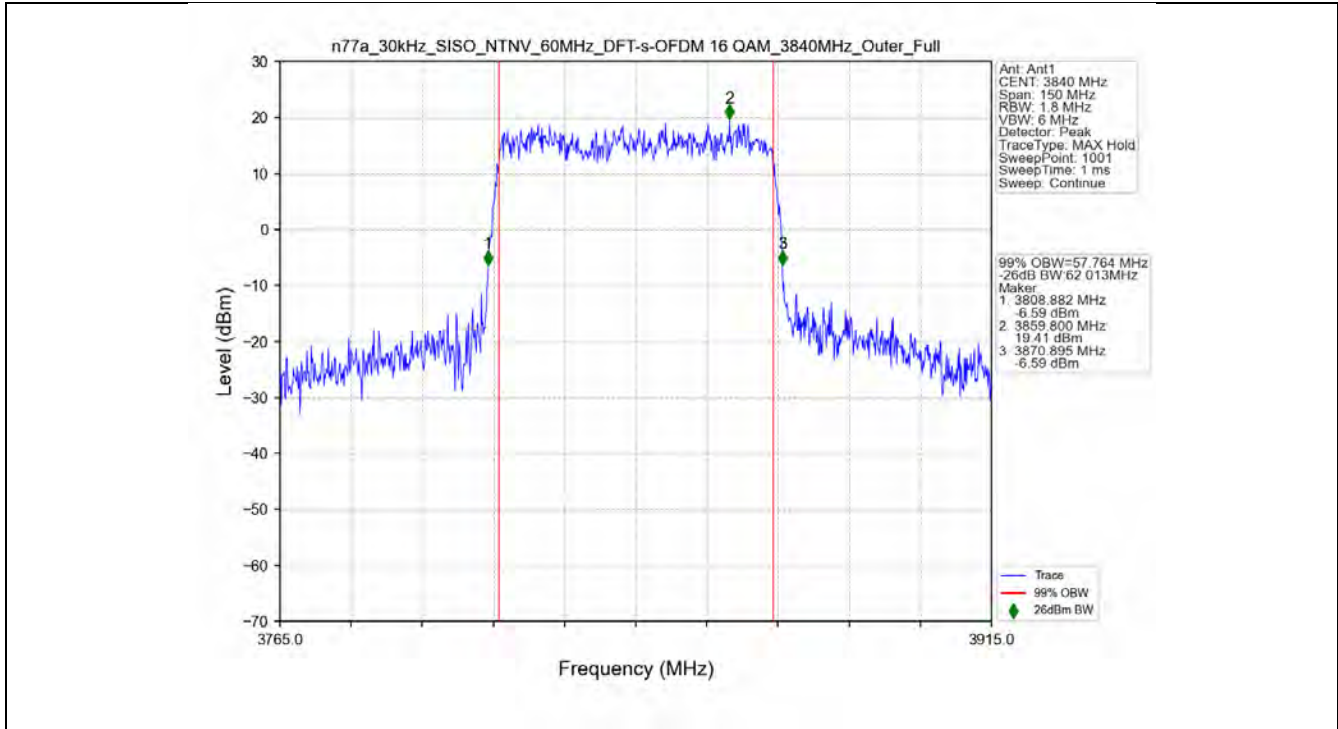


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Report No.: SZCR240100038409

Rev.: 01

Page: 141 of 973



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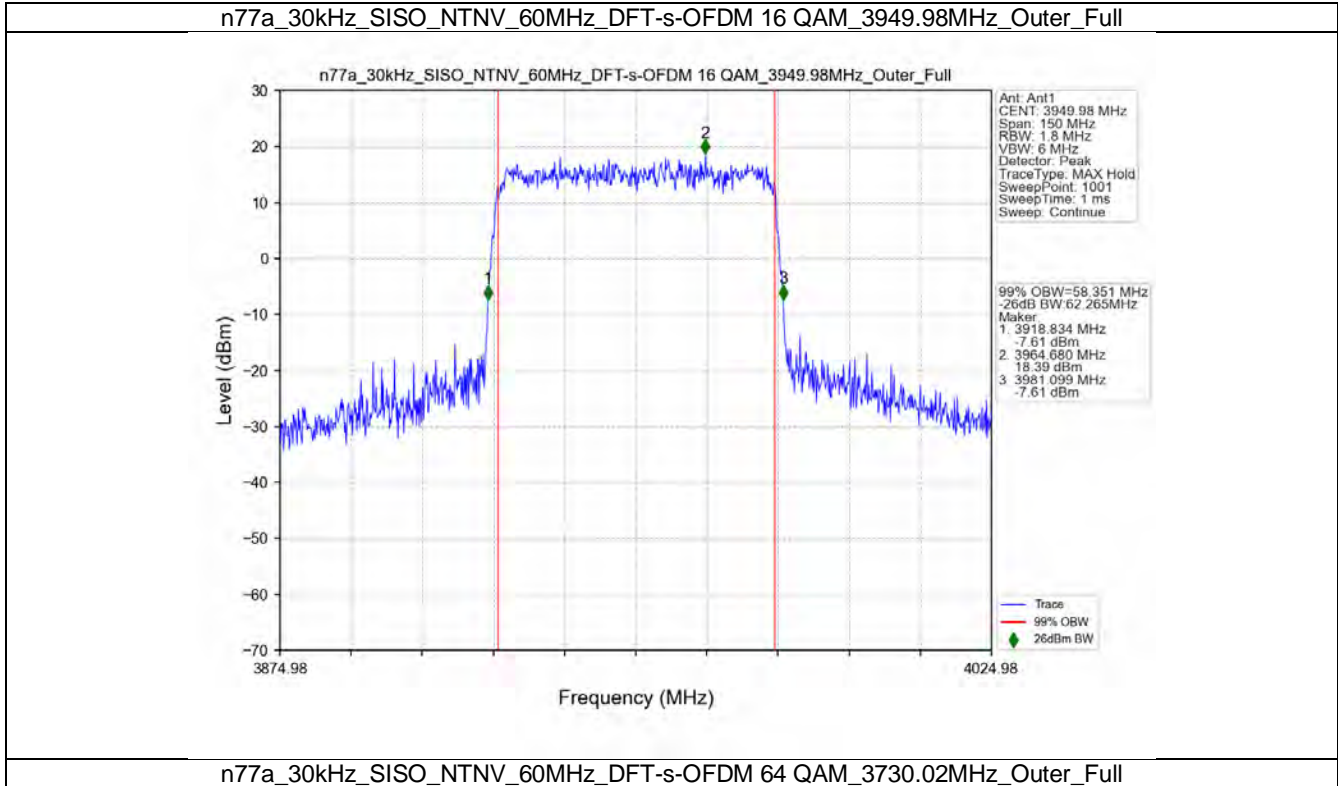


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Report No.: SZCR240100038409

Rev.: 01

Page: 142 of 973



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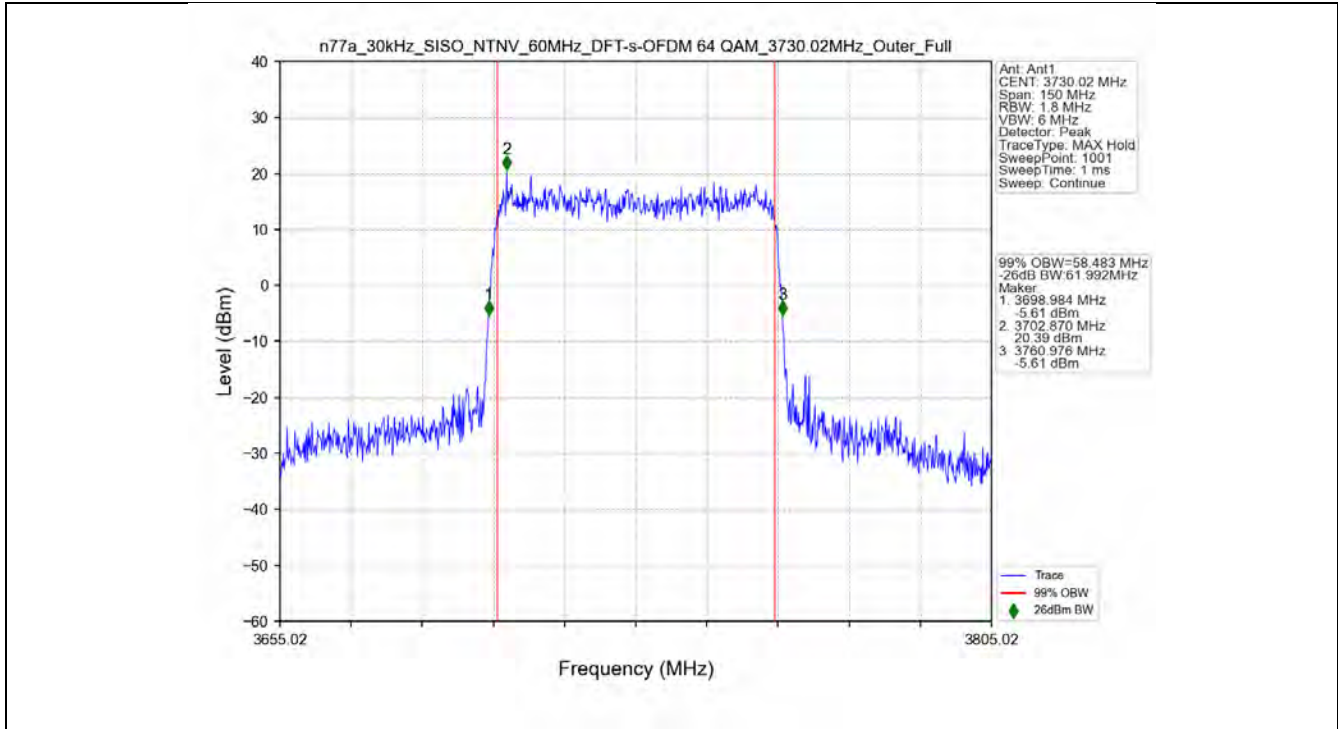


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Report No.: SZCR240100038409

Rev.: 01

Page: 143 of 973



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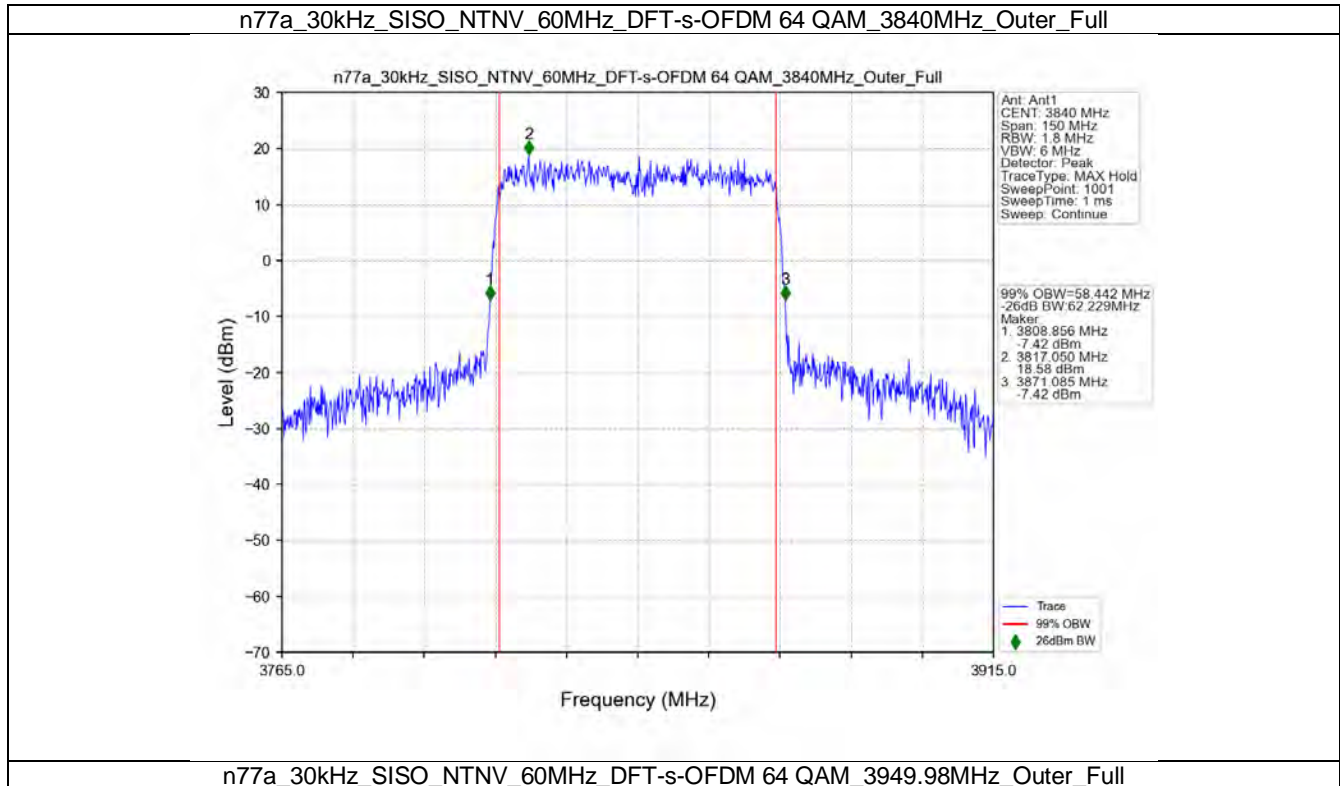


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Report No.: SZCR240100038409

Rev.: 01

Page: 144 of 973



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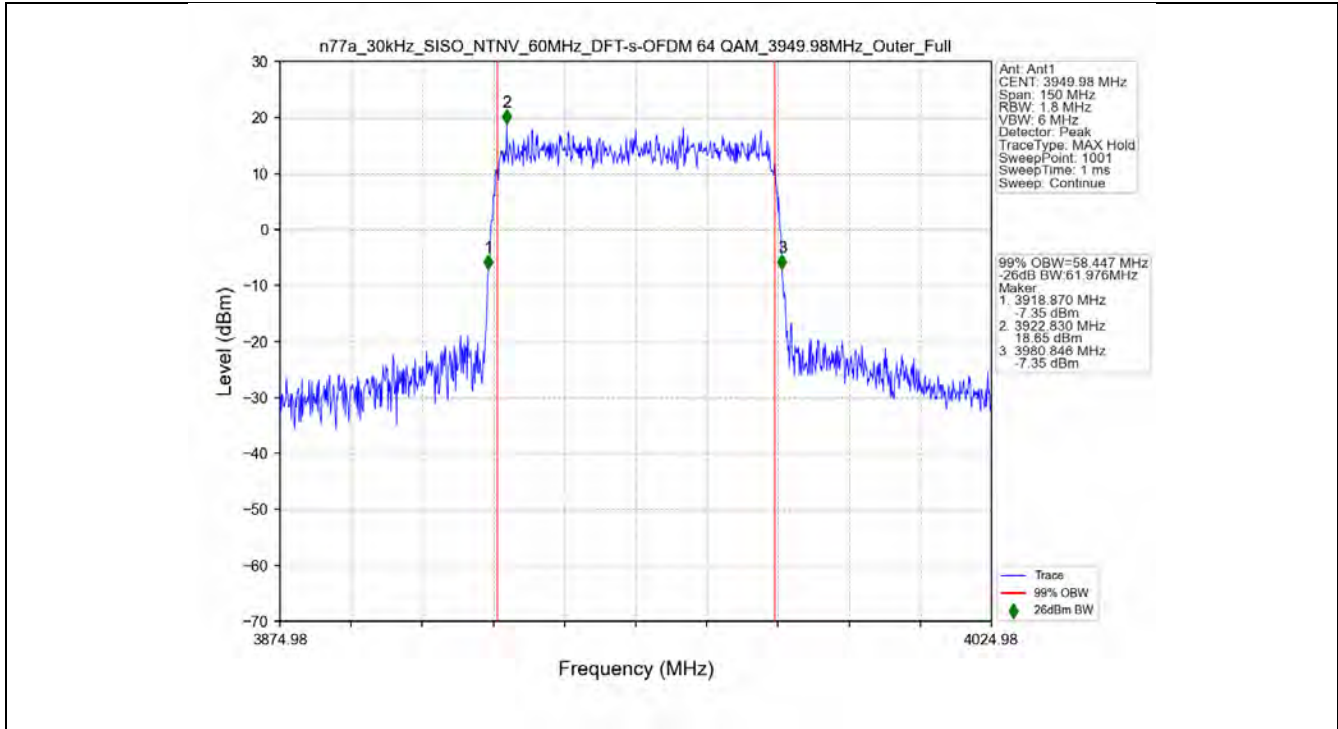


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Report No.: SZCR240100038409

Rev.: 01

Page: 145 of 973



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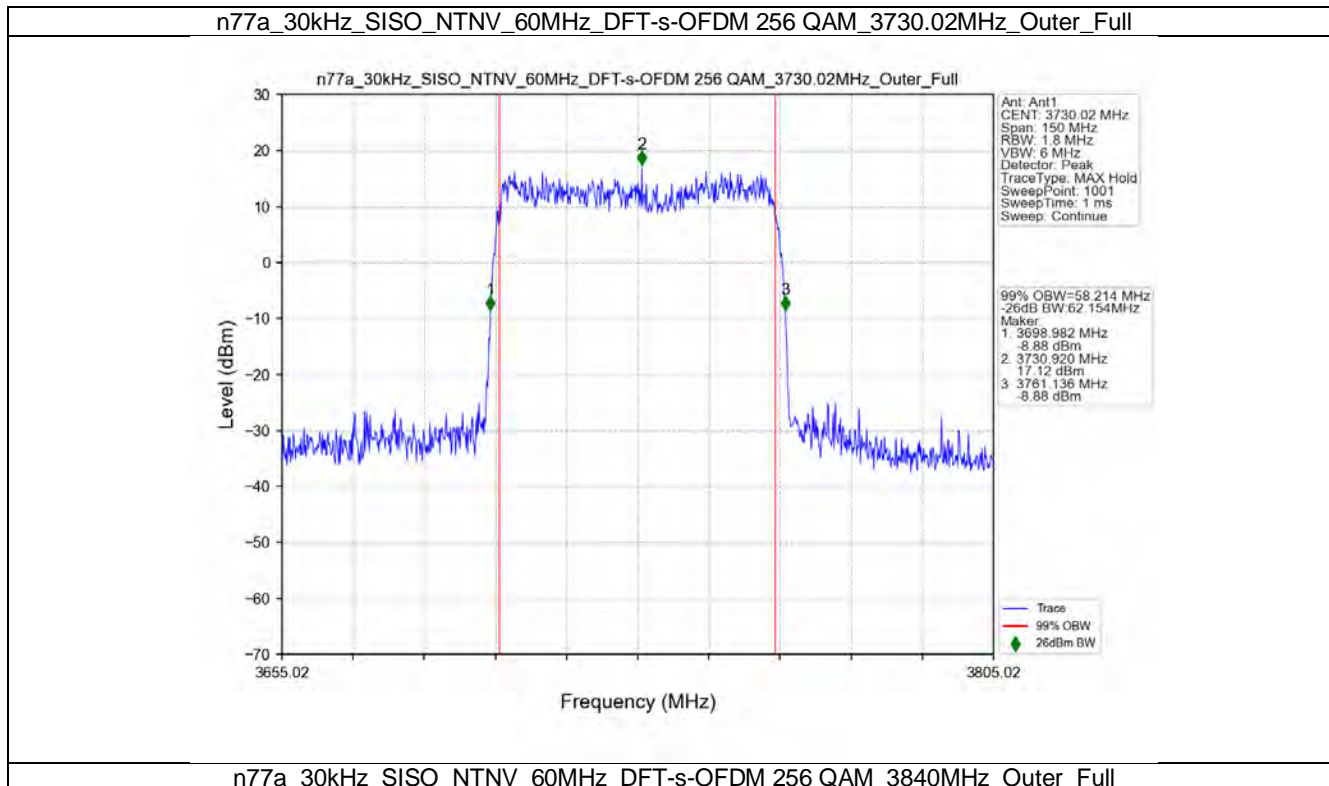
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Report No.: SZCR240100038409
 Rev.: 01
 Page: 146 of 973



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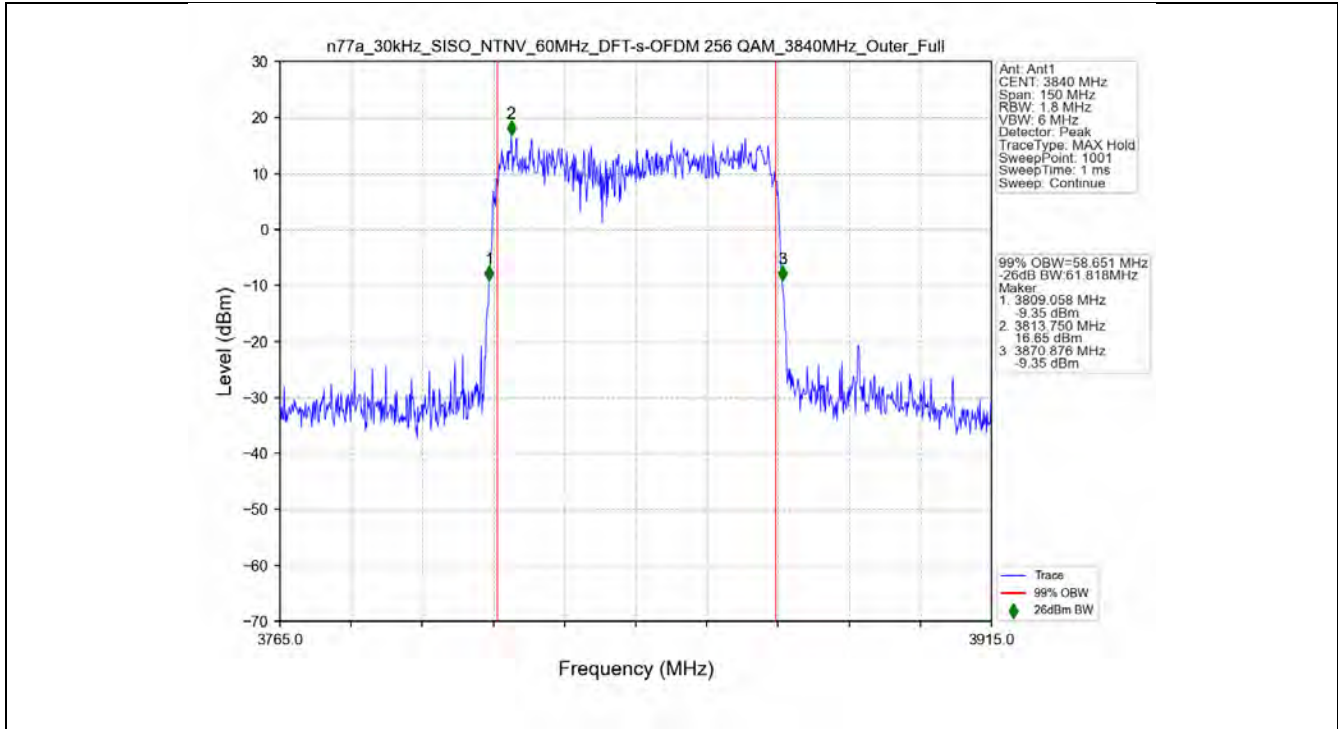


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Report No.: SZCR240100038409

Rev.: 01

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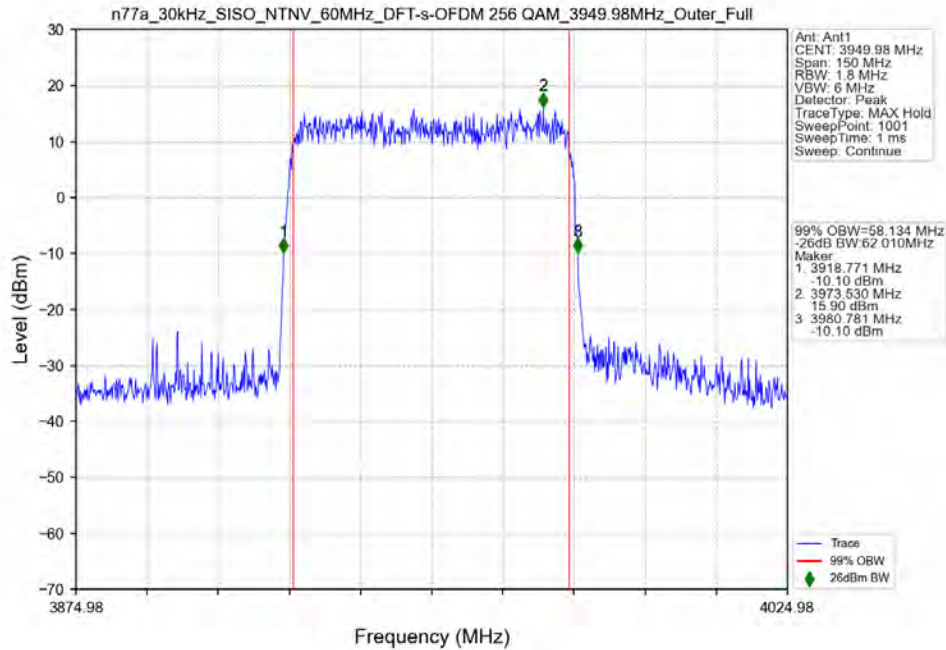
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Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 148 of 973

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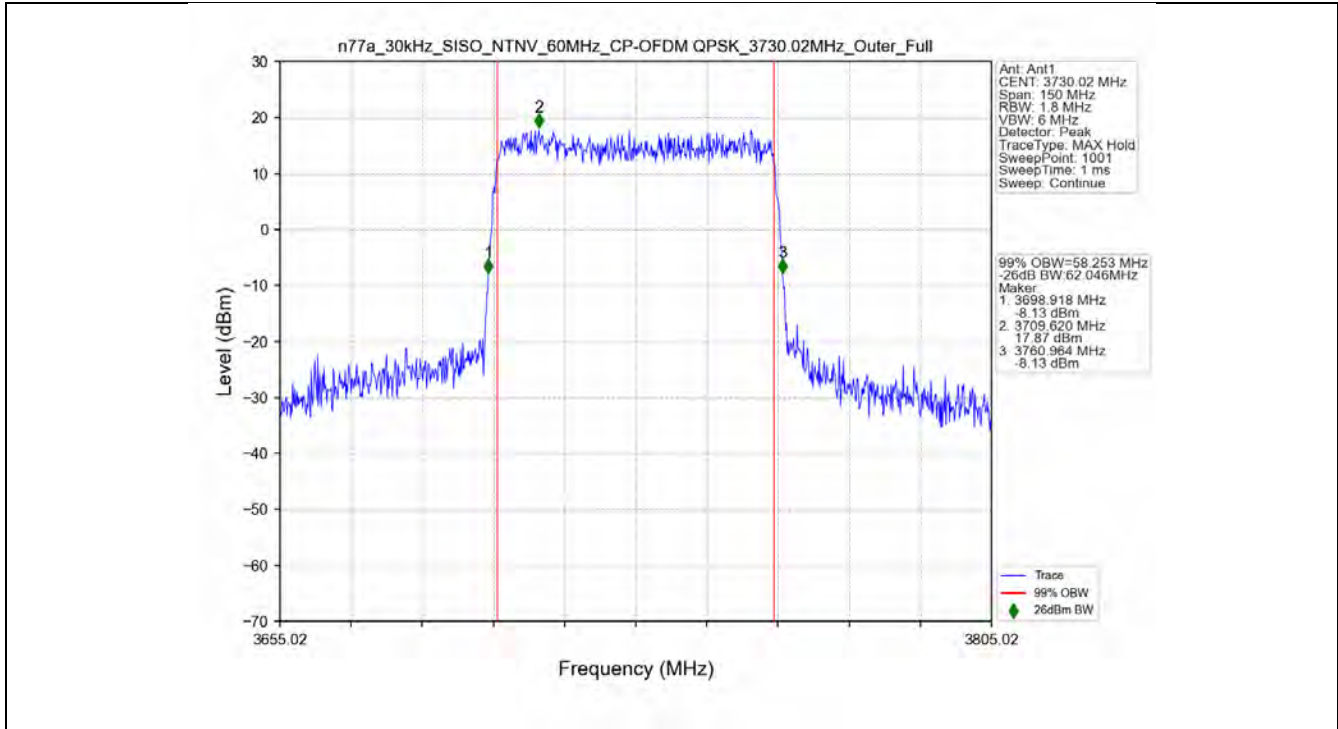


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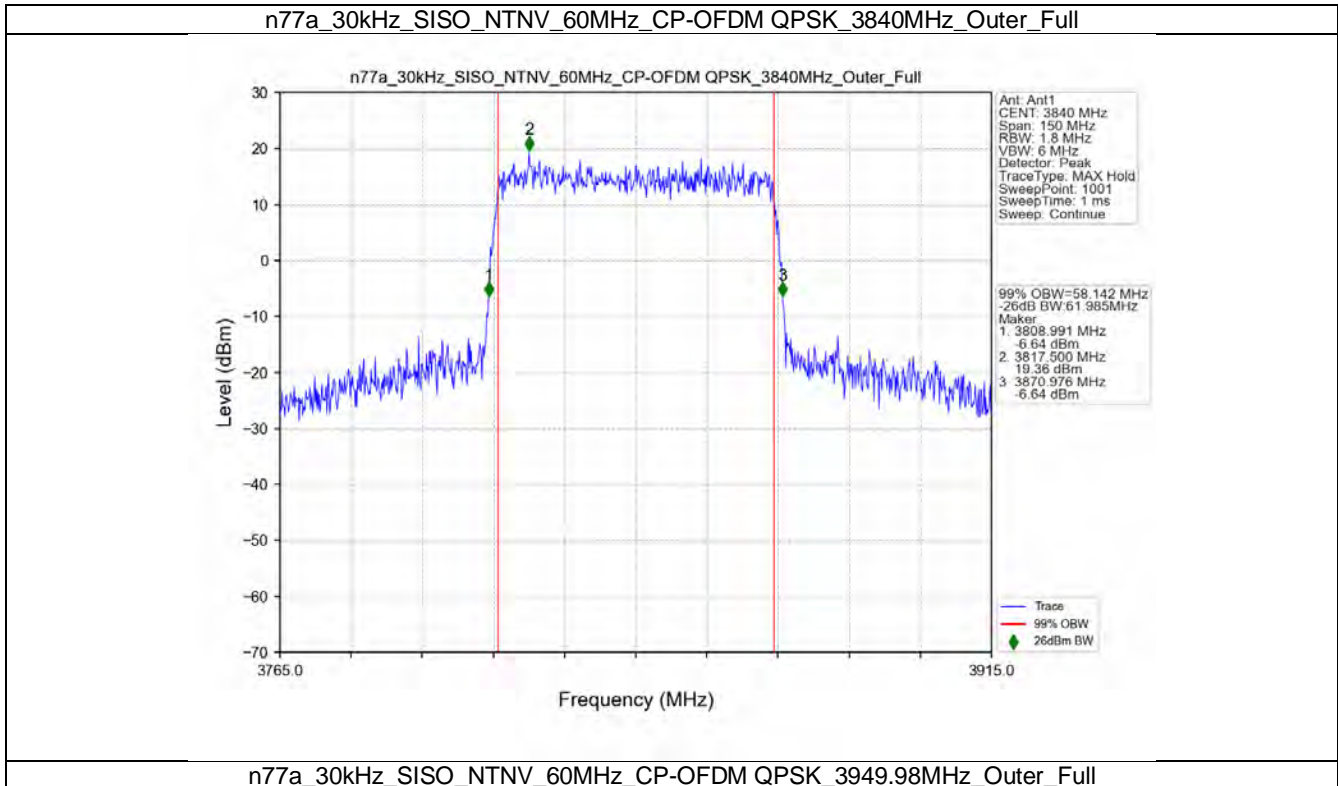


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Rev.: 01

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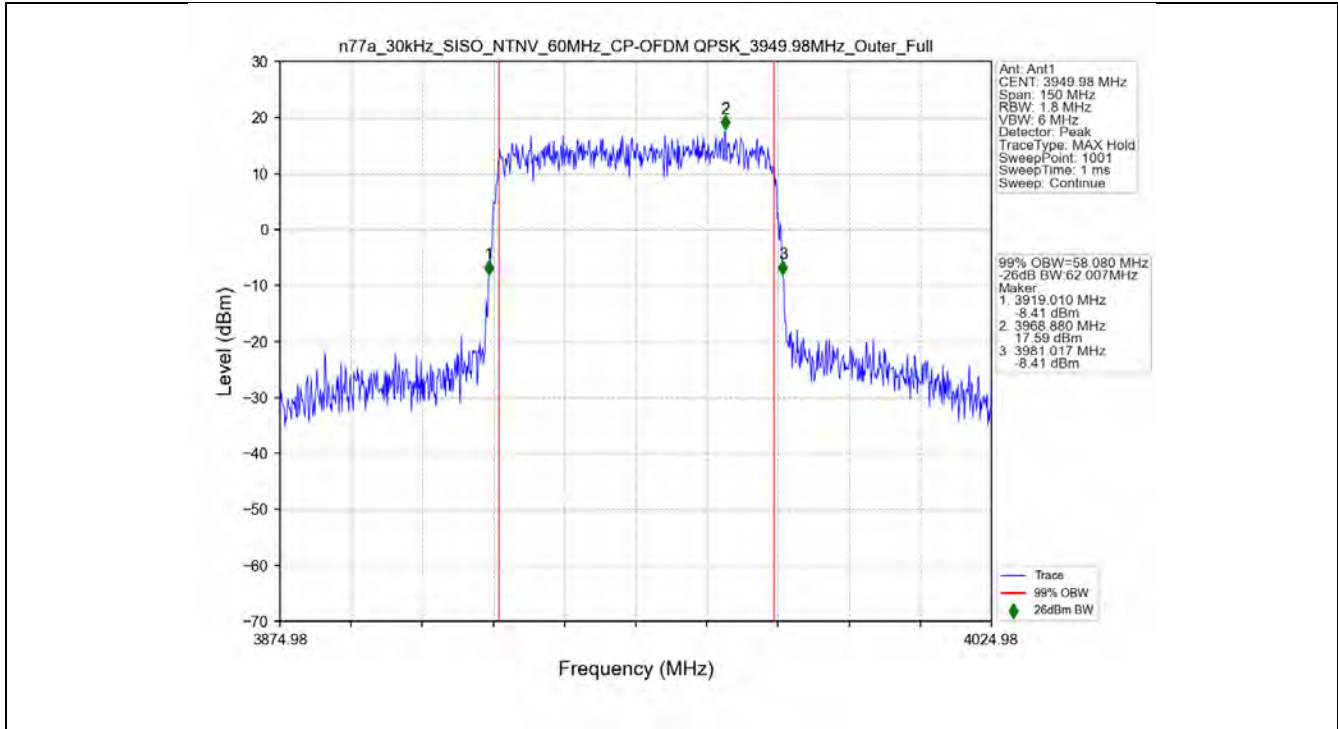


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Rev.: 01

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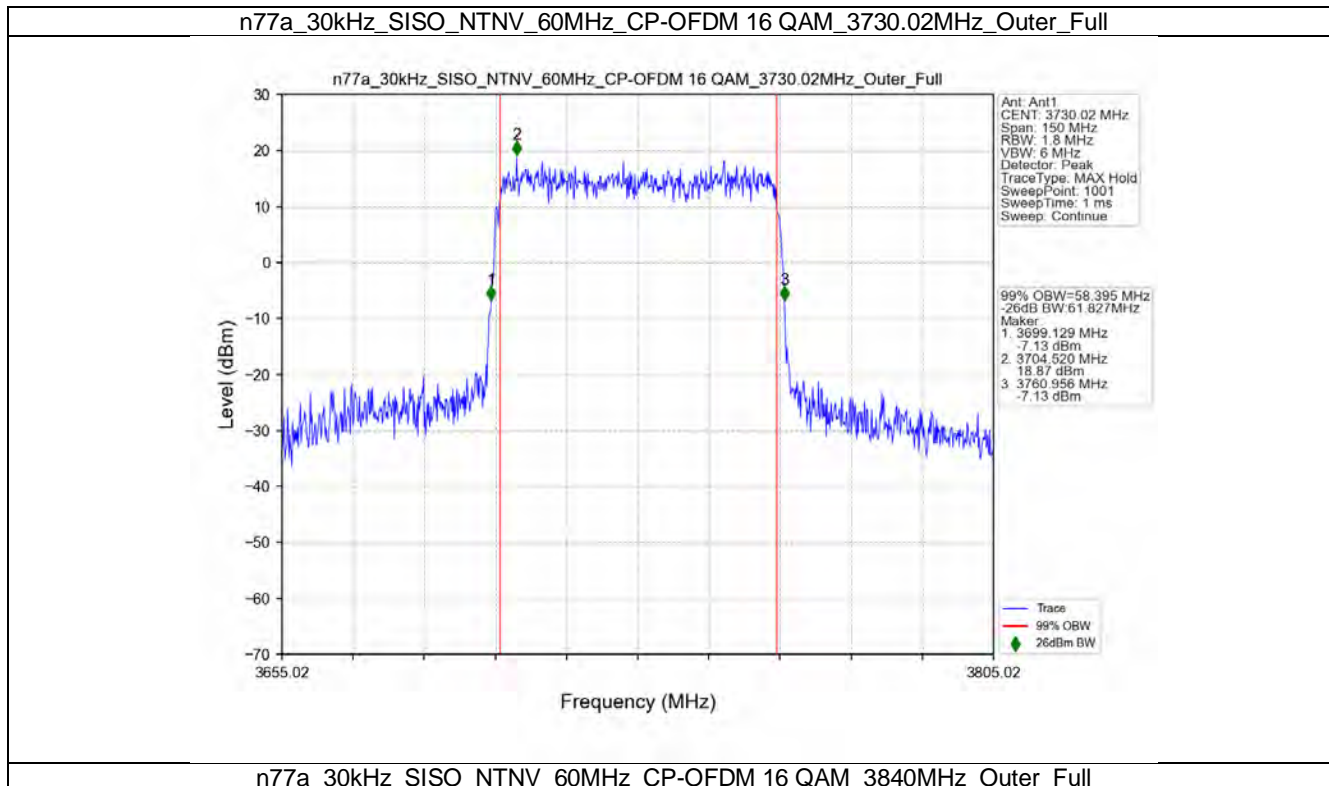
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Report No.: SZCR240100038409
Rev.: 01
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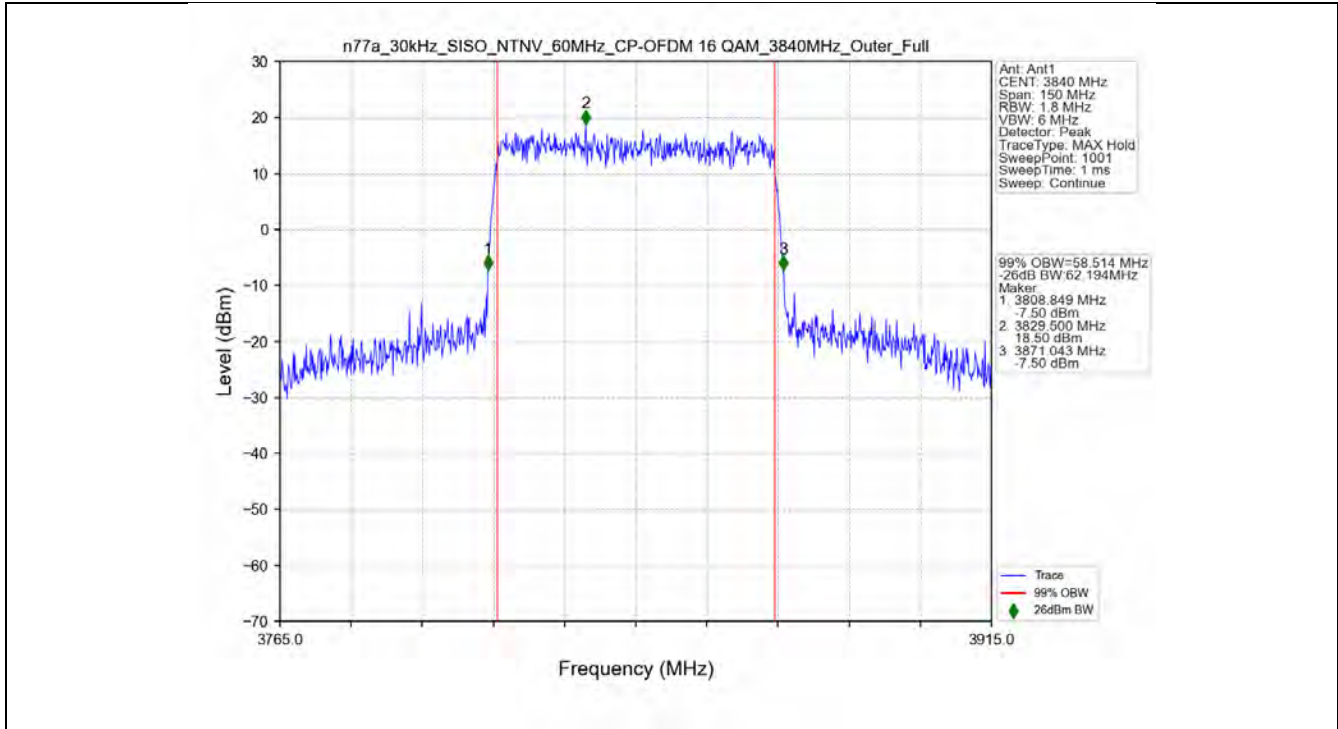


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Report No.: SZCR240100038409

Rev.: 01

Page: 153 of 973



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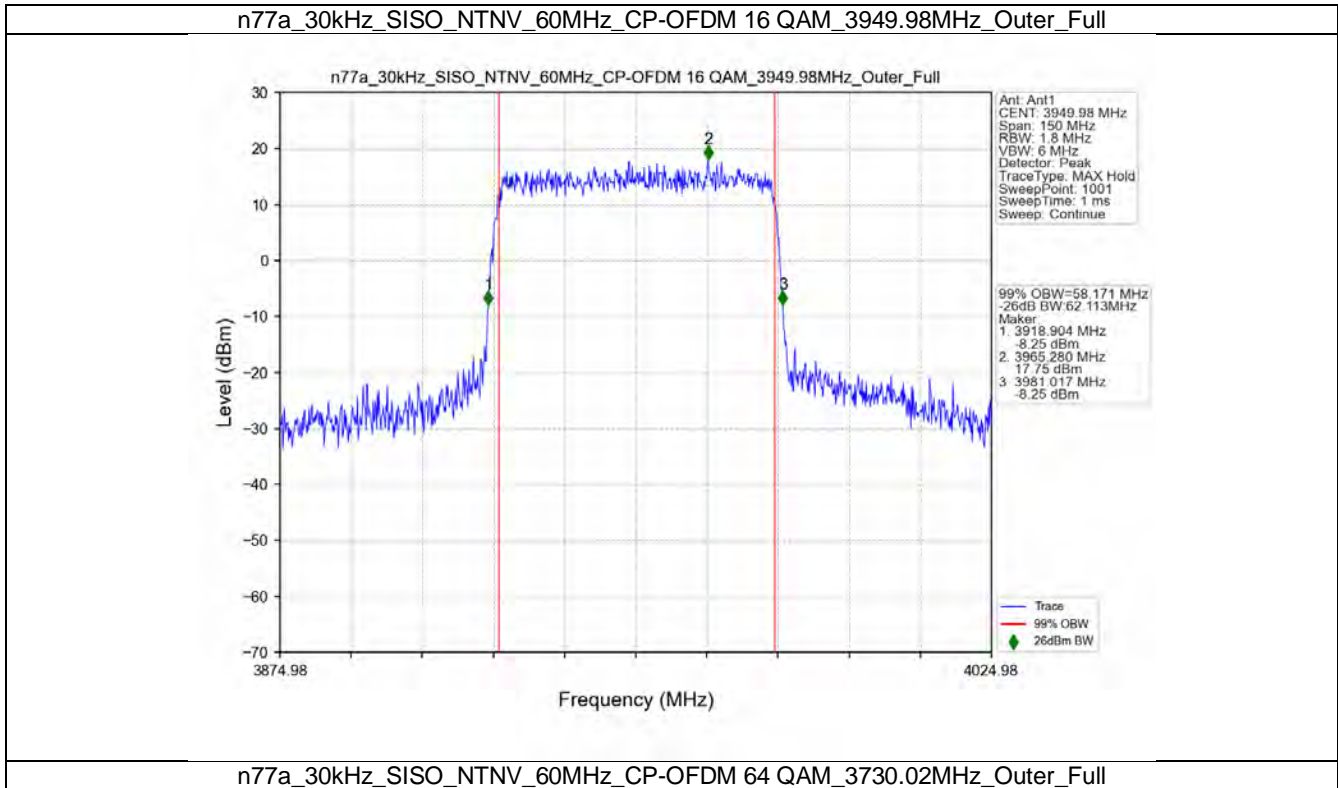


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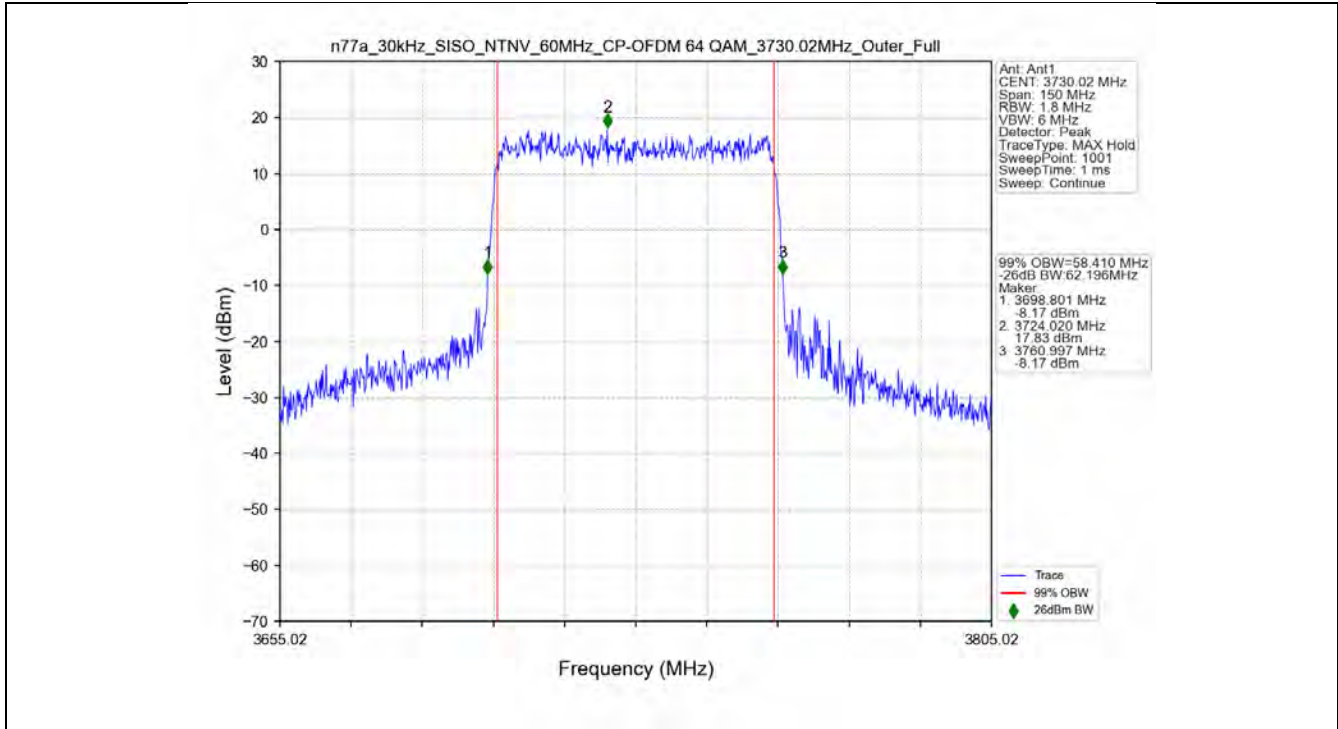


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Report No.: SZCR240100038409

Rev.: 01

Page: 155 of 973



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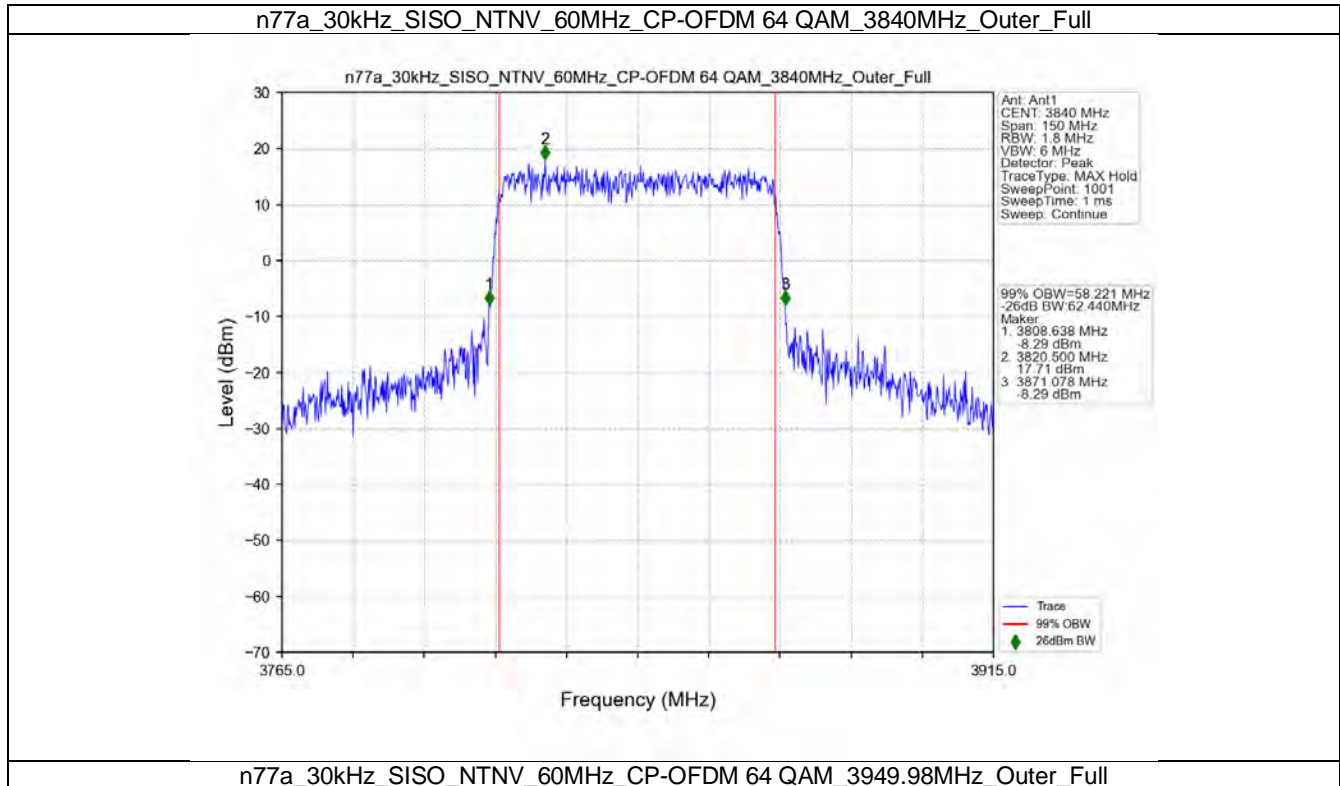


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Report No.: SZCR240100038409

Rev.: 01

Page: 156 of 973



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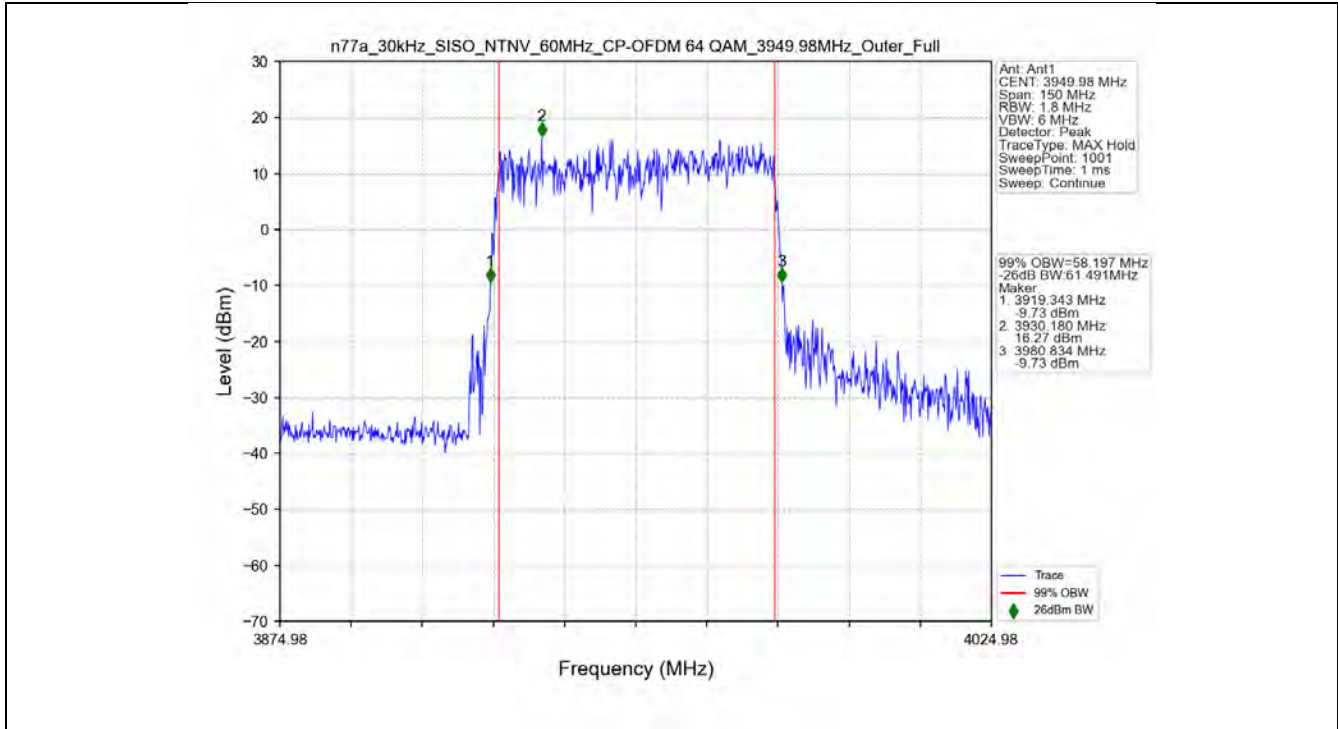


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Report No.: SZCR240100038409

Rev.: 01

Page: 157 of 973



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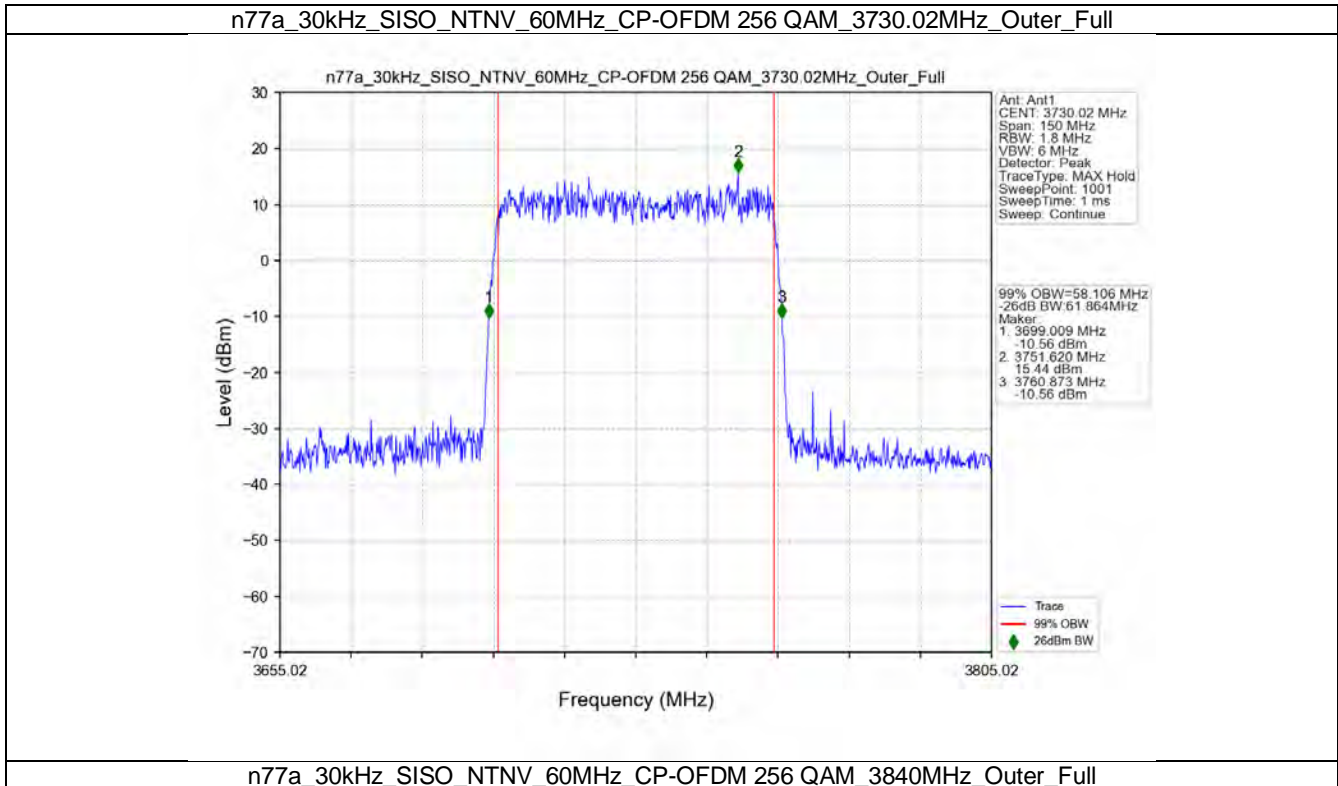


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Report No.: SZCR240100038409

Rev.: 01

Page: 158 of 973



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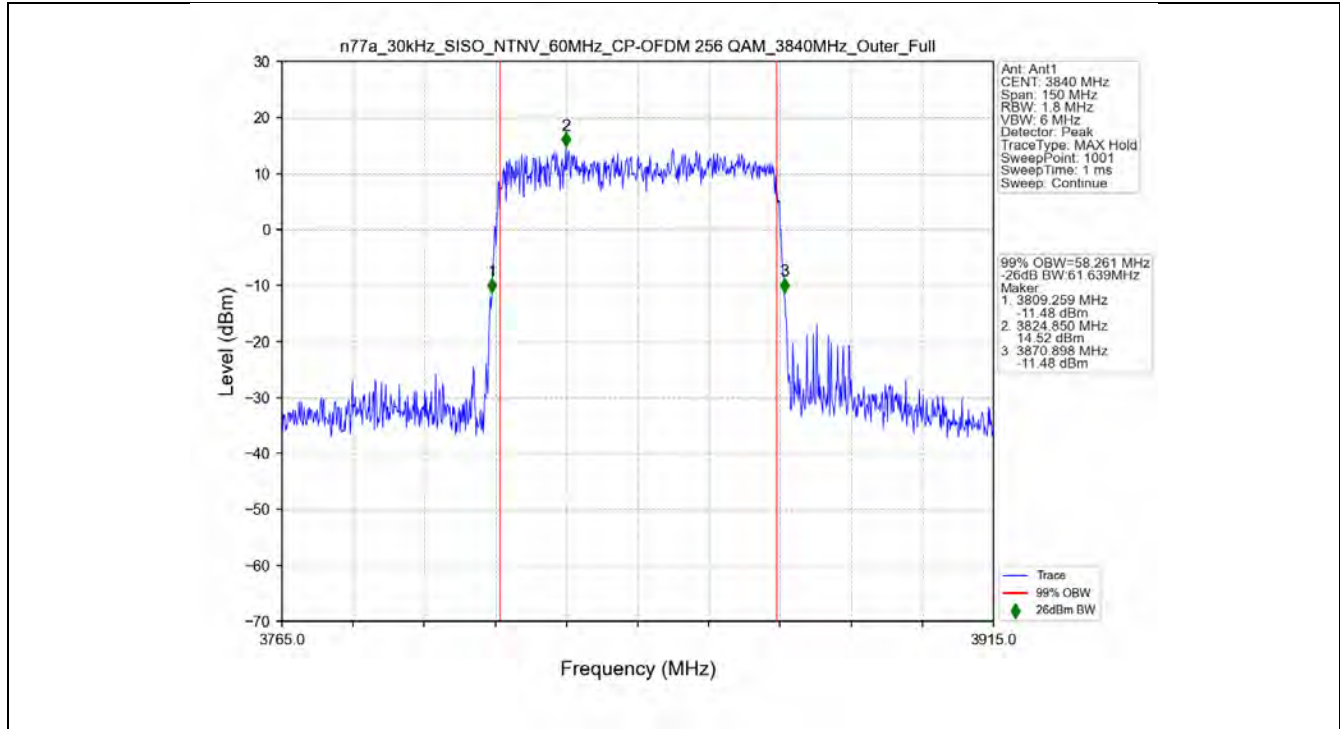


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Rev.: 01

Page: 159 of 973



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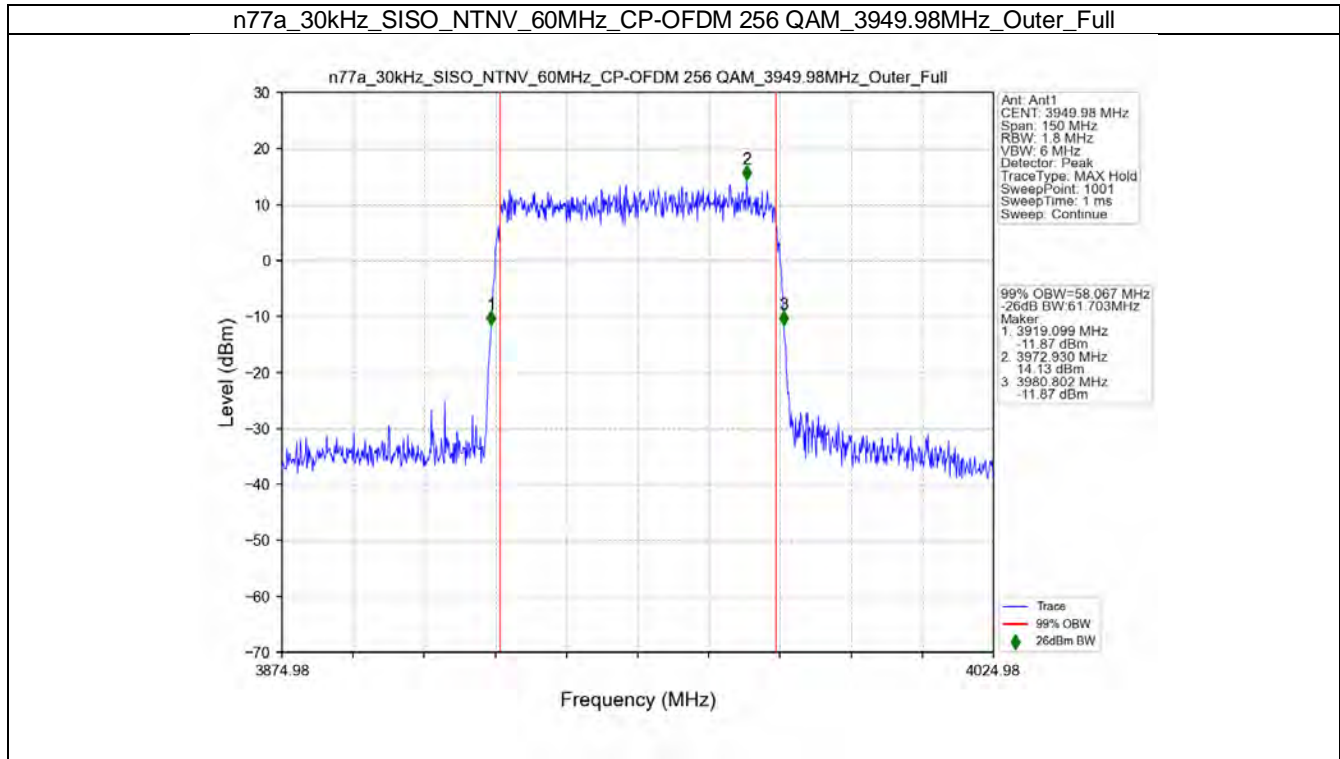


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Rev.: 01

Page: 160 of 973



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Report No.: SZCR240100038409

Rev.: 01

Page: 161 of 973

3.5 30k_SISO_80MHz_NTNV

3.5.1 Test Result

5G NR n77a SCS=30kHz SISO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3740.01	Outer_Full	77.88	82.09	/	Pass
	3840	Outer_Full	77.49	82.67	/	Pass
	3939.99	Outer_Full	77.84	82.22	/	Pass
DFT-s-OFDM QPSK	3740.01	Outer_Full	77.78	82.69	/	Pass
	3840	Outer_Full	77.95	82.59	/	Pass
	3939.99	Outer_Full	77.92	82.81	/	Pass
DFT-s-OFDM 16 QAM	3740.01	Outer_Full	33.31	35.84	/	Pass
	3840	Outer_Full	77.43	82.47	/	Pass
	3939.99	Outer_Full	78.33	82.95	/	Pass
DFT-s-OFDM 64 QAM	3740.01	Outer_Full	78.00	82.97	/	Pass
	3840	Outer_Full	77.74	82.37	/	Pass
	3939.99	Outer_Full	77.62	82.44	/	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer_Full	78.50	82.50	/	Pass
	3840	Outer_Full	77.14	81.96	/	Pass
	3939.99	Outer_Full	77.63	82.58	/	Pass
CP-OFDM QPSK	3740.01	Outer_Full	77.99	83.31	/	Pass
	3840	Outer_Full	77.91	83.12	/	Pass
	3939.99	Outer_Full	78.00	83.13	/	Pass
CP-OFDM 16 QAM	3740.01	Outer_Full	78.36	83.27	/	Pass
	3840	Outer_Full	77.75	82.96	/	Pass
	3939.99	Outer_Full	78.27	82.91	/	Pass
CP-OFDM 64 QAM	3740.01	Outer_Full	78.10	83.02	/	Pass
	3840	Outer_Full	78.01	83.53	/	Pass
	3939.99	Outer_Full	77.91	83.20	/	Pass
CP-OFDM 256 QAM	3740.01	Outer_Full	78.36	82.85	/	Pass
	3840	Outer_Full	77.87	82.88	/	Pass
	3939.99	Outer_Full	78.15	82.93	/	Pass



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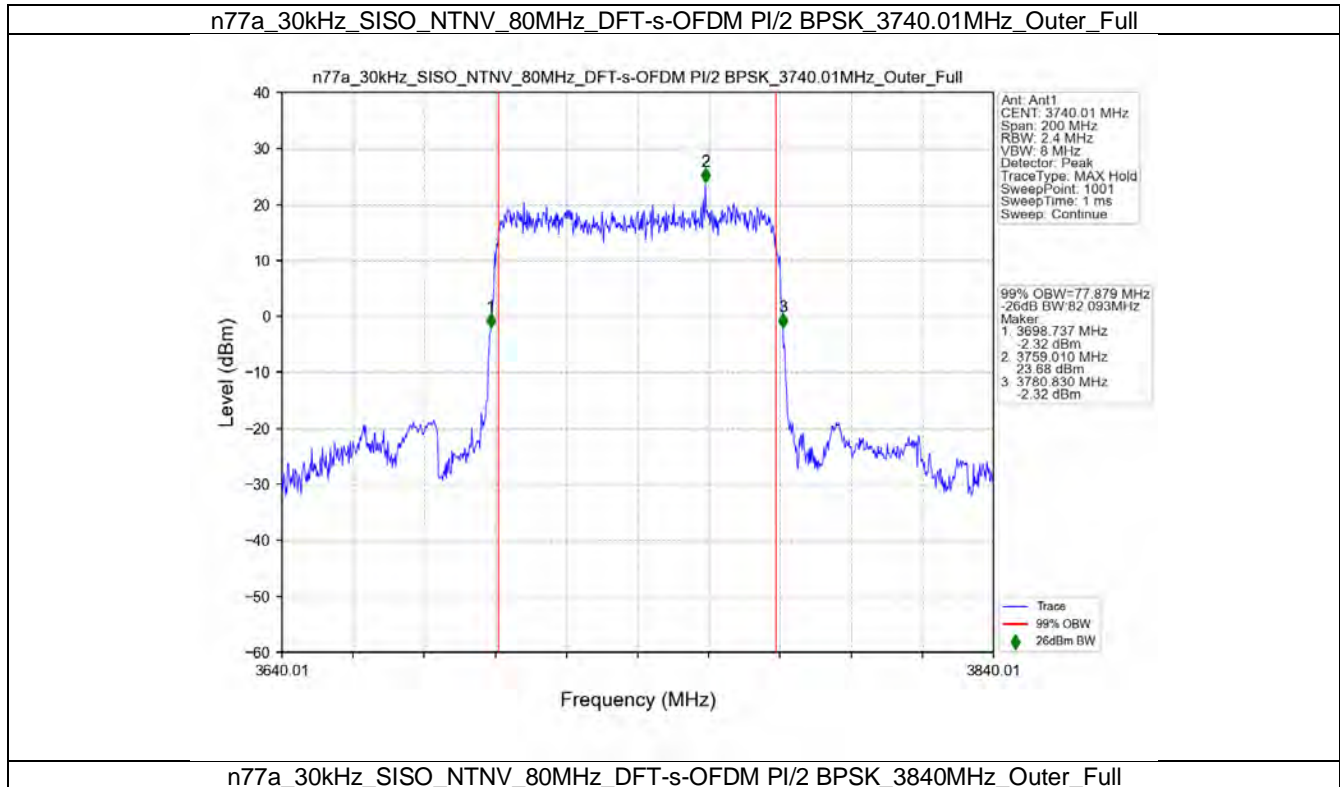


Report No.: SZCR240100038409

Rev.: 01

Page: 162 of 973

3.5.2 Test Graph



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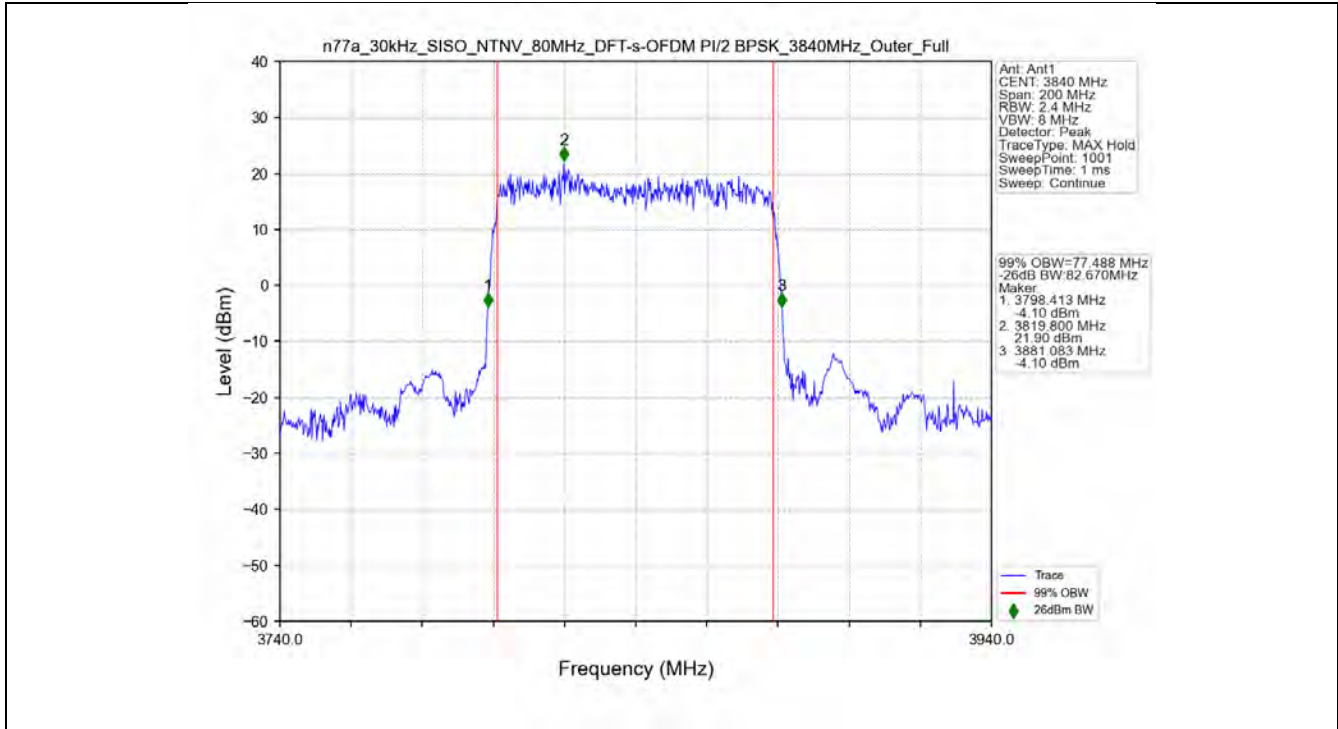


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Rev.: 01

Page: 163 of 973



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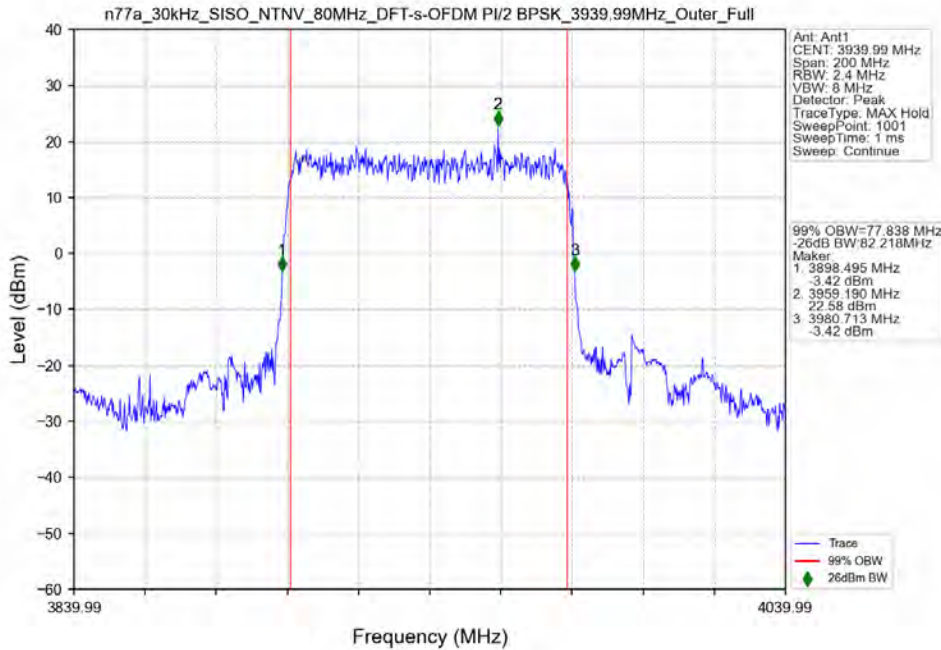
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Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 164 of 973

n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM PI/2 BPSK_3939.99MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3740.01MHz_Outer_Full



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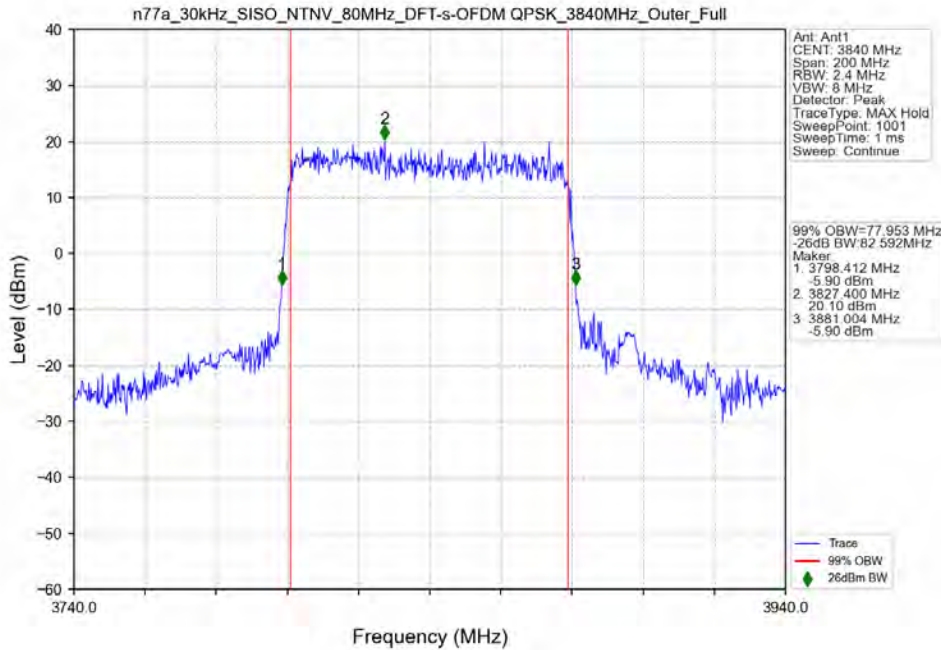
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Report No.: SZCR240100038409

Rev.: 01

Page: 166 of 973

n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3939.99MHz_Outer_Full



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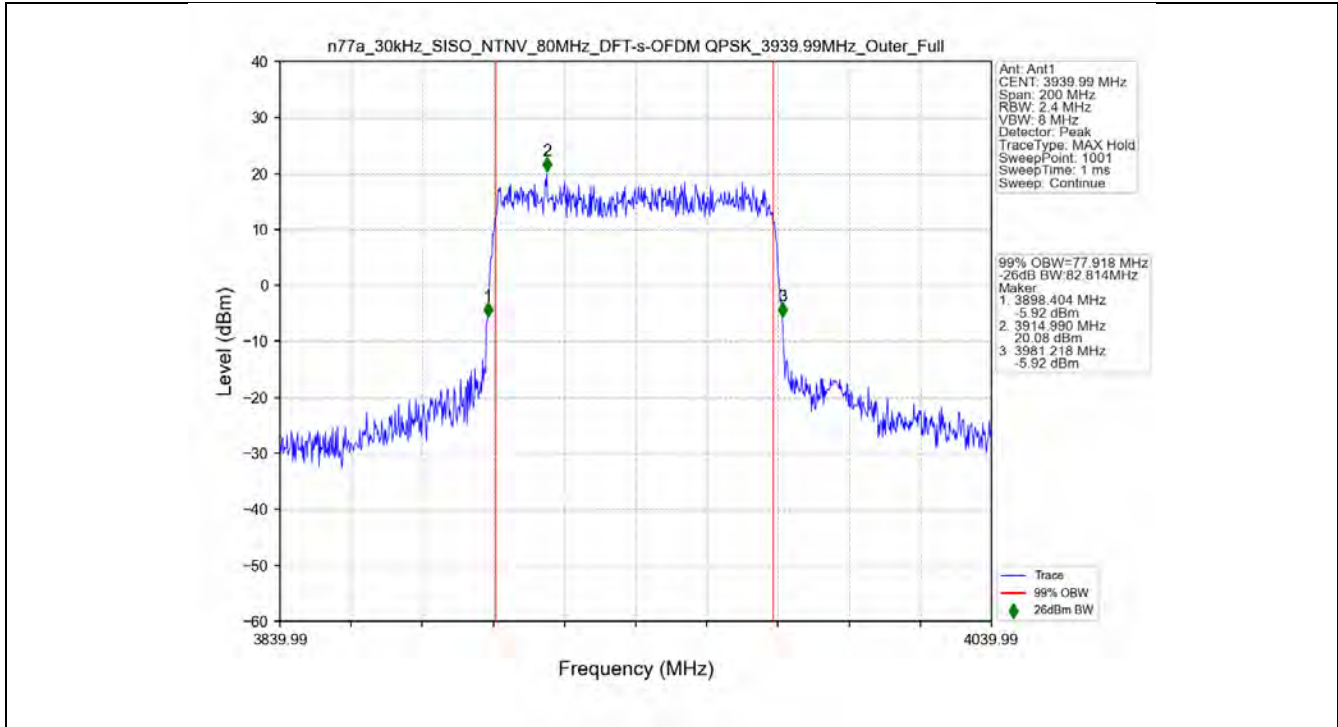


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Report No.: SZCR240100038409

Rev.: 01

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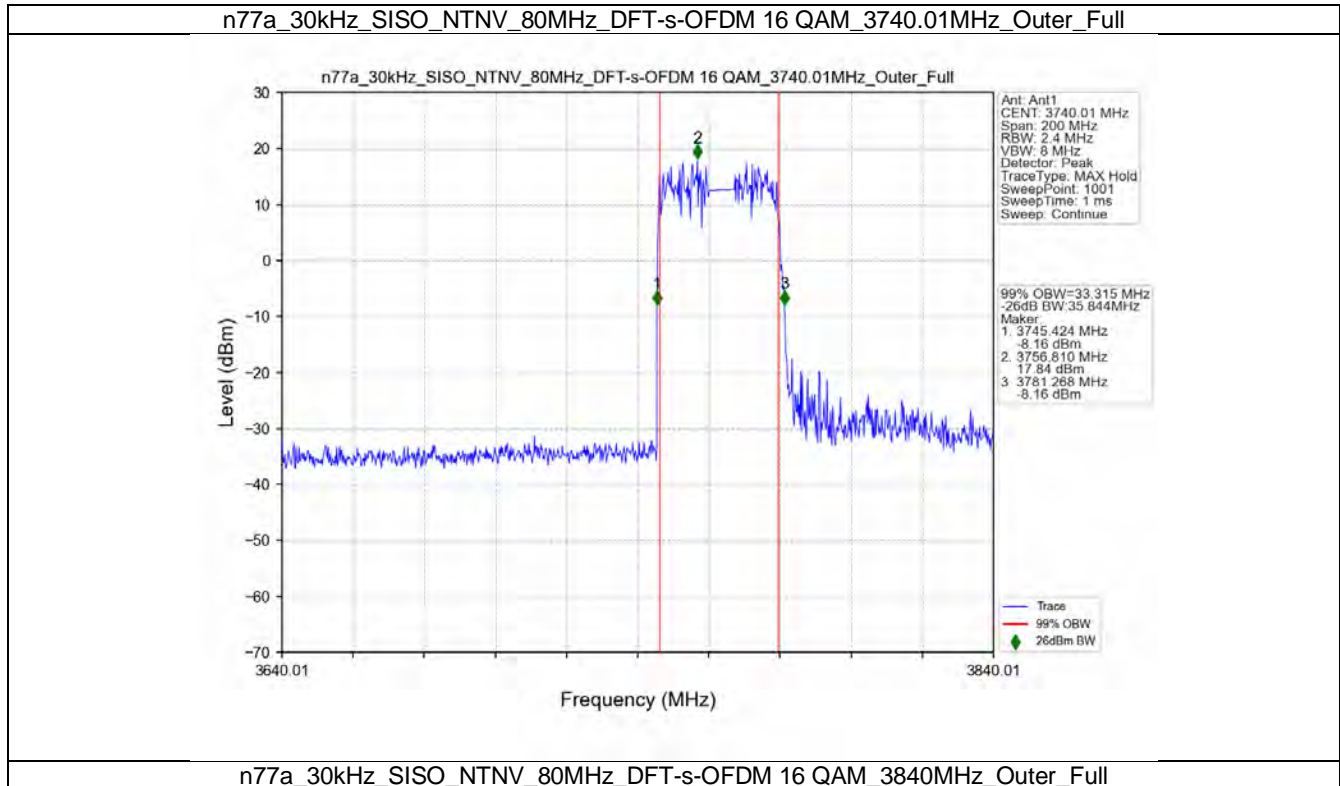


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Report No.: SZCR240100038409

Rev.: 01

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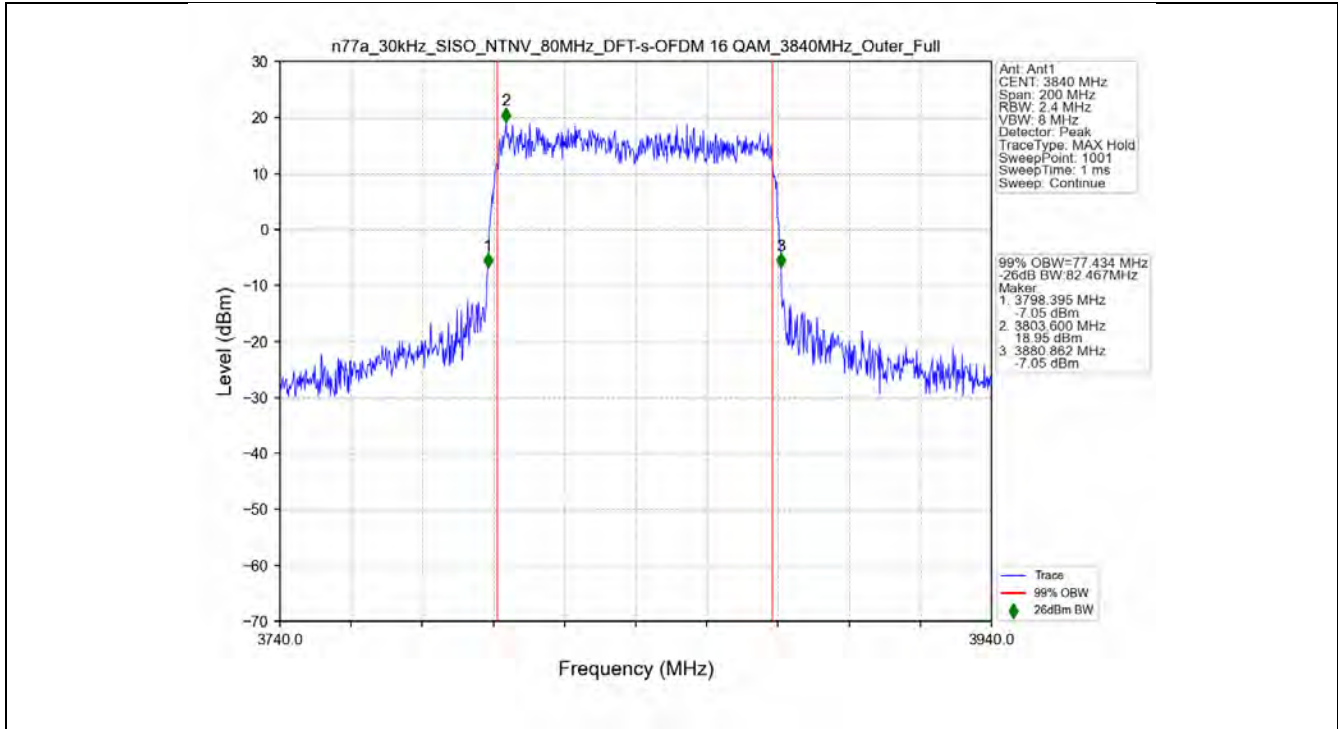


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Report No.: SZCR240100038409

Rev.: 01

Page: 169 of 973



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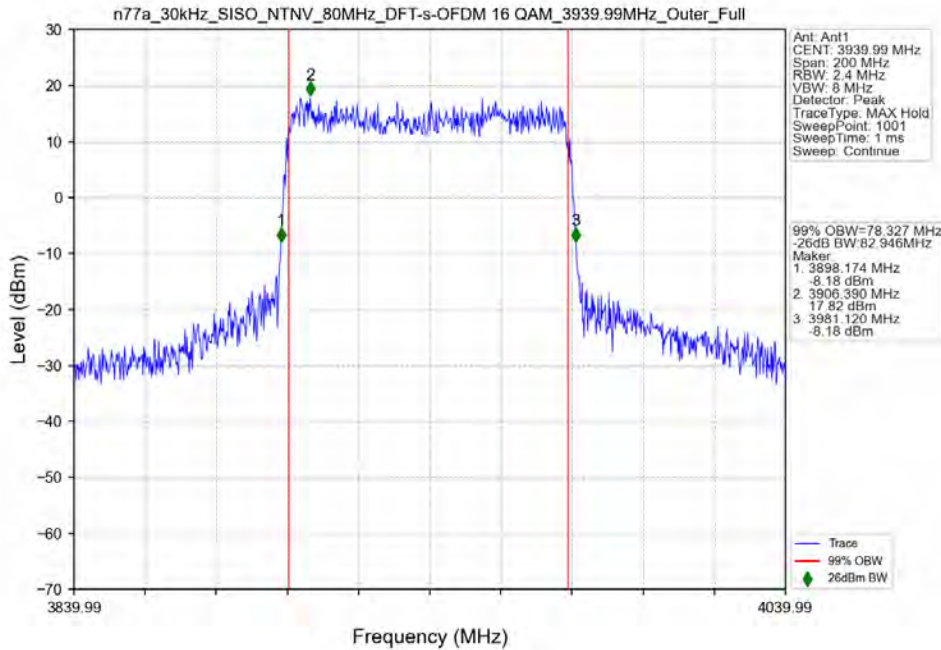
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Report No.: SZCR240100038409

Rev.: 01

Page: 170 of 973

n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 16 QAM_3939.99MHz_Outer_Full



n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3740.01MHz_Outer_Full



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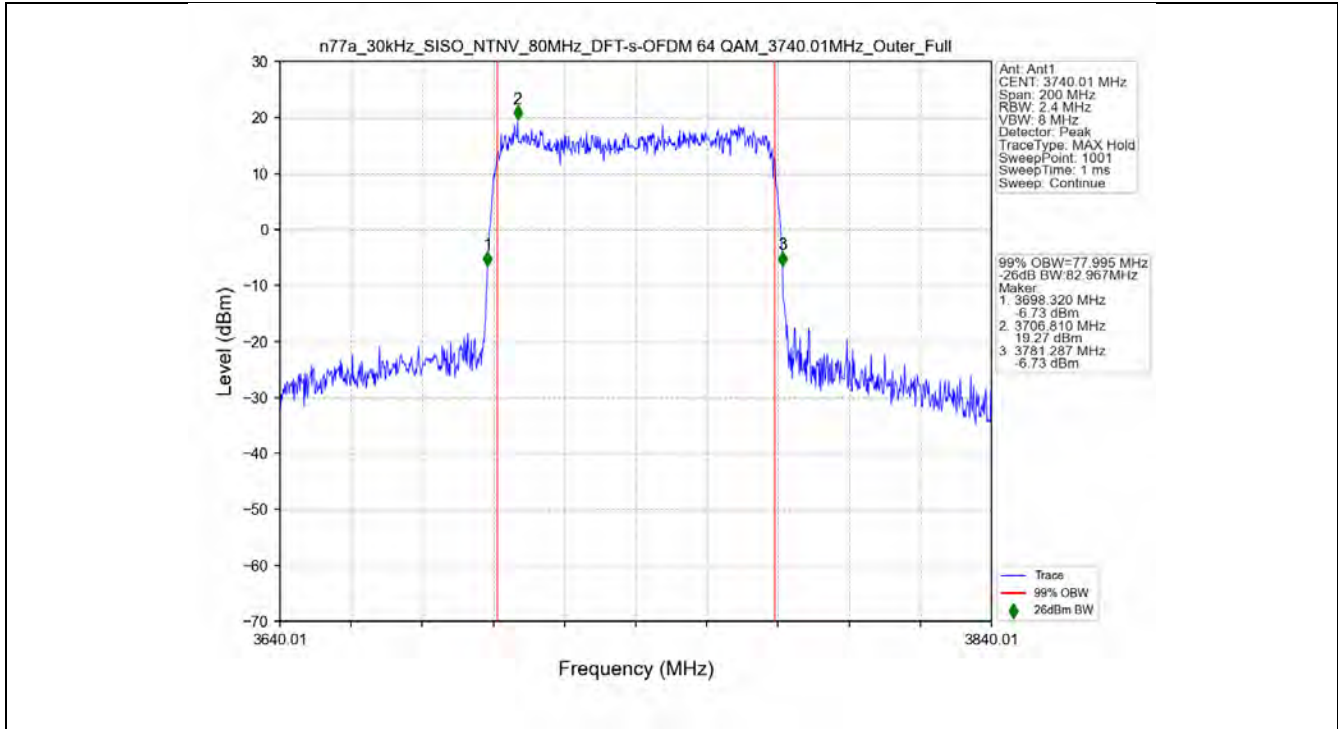


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Report No.: SZCR240100038409

Rev.: 01

Page: 171 of 973



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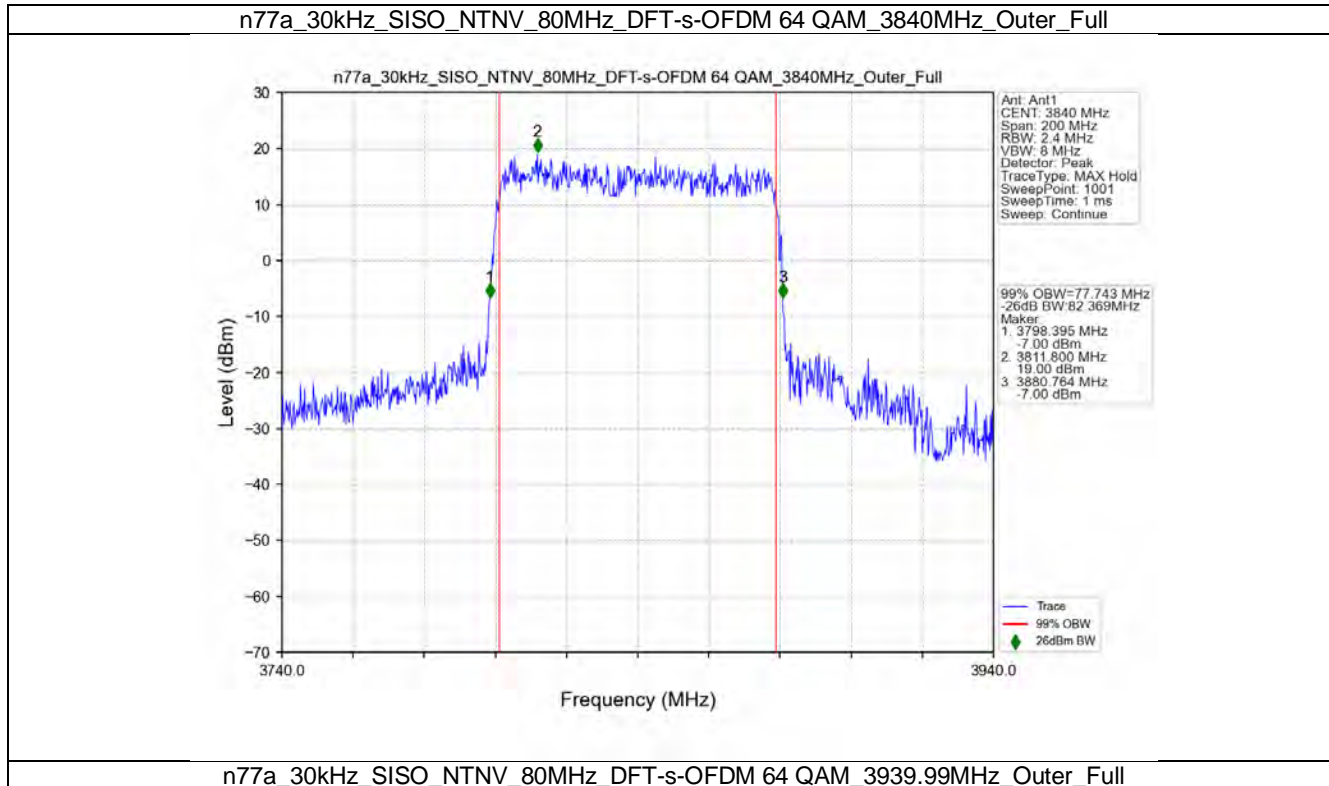
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Report No.: SZCR240100038409
Rev.: 01
Page: 172 of 973



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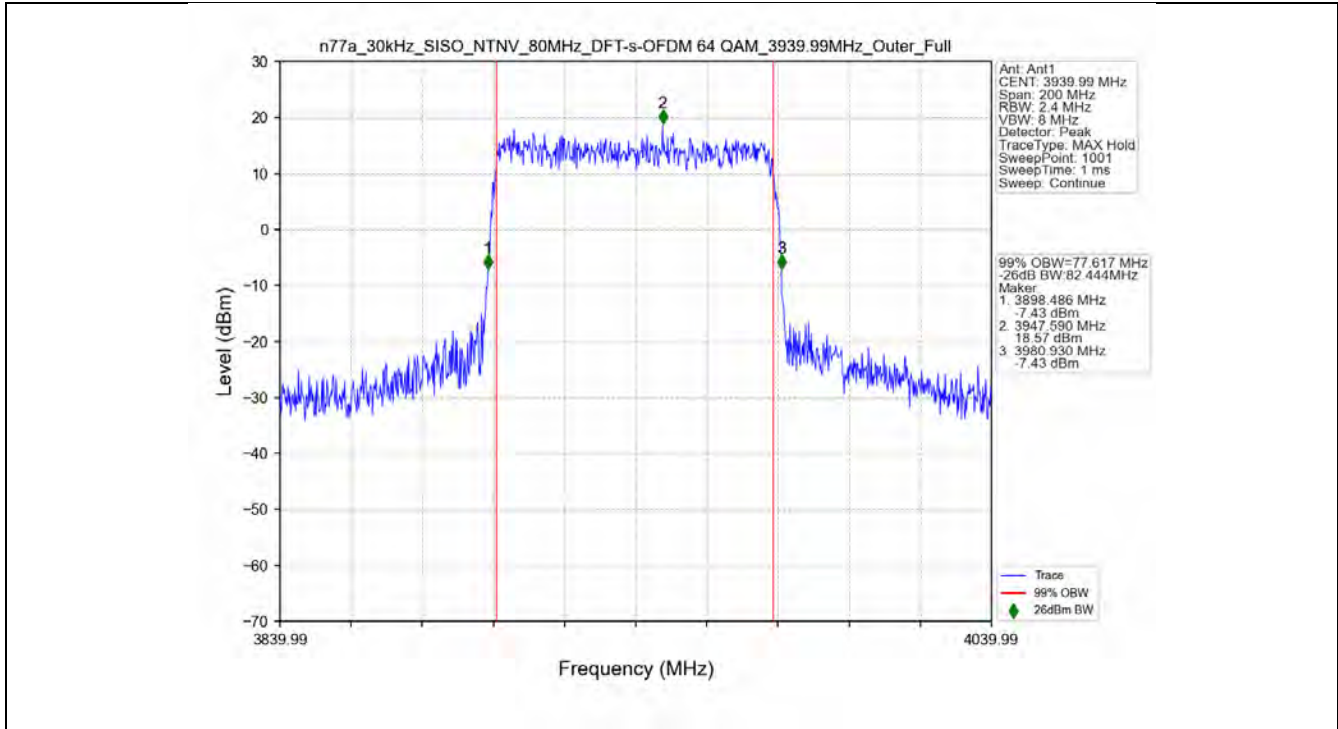


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Report No.: SZCR240100038409

Rev.: 01

Page: 173 of 973



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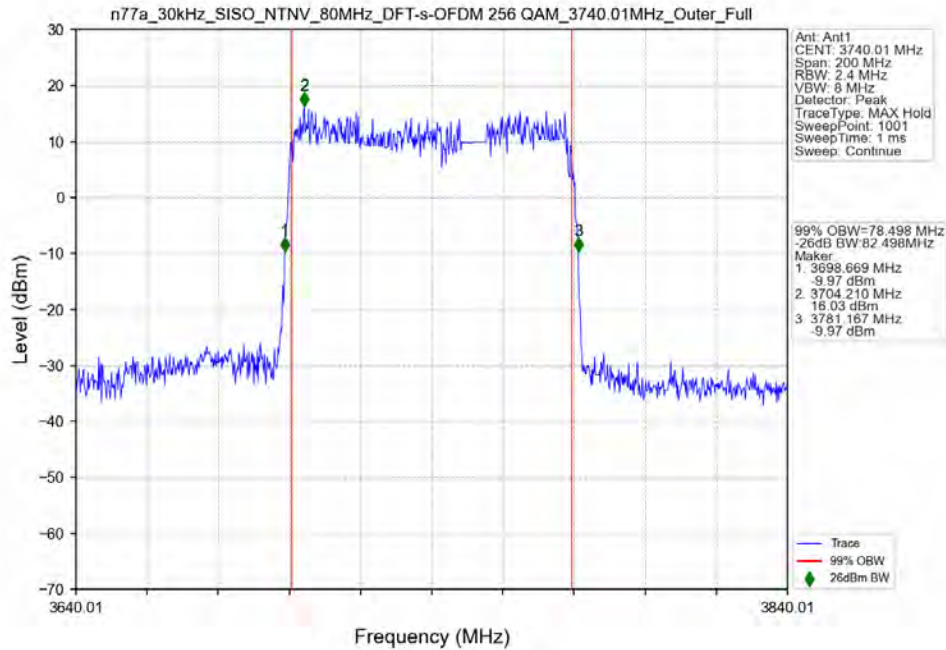
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Report No.: SZCR240100038409

Rev.: 01

Page: 174 of 973

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n77a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 256 QAM_3840MHz_Outer_Full



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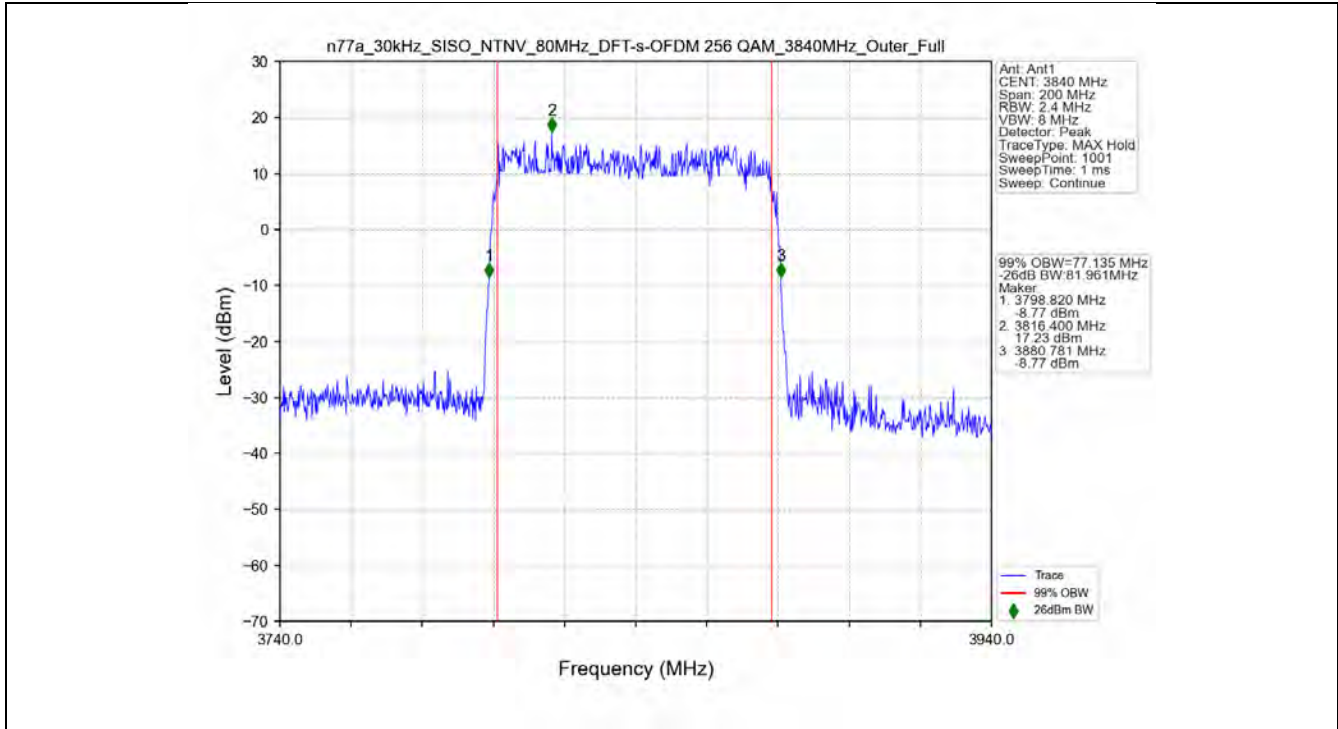


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Rev.: 01

Page: 175 of 973



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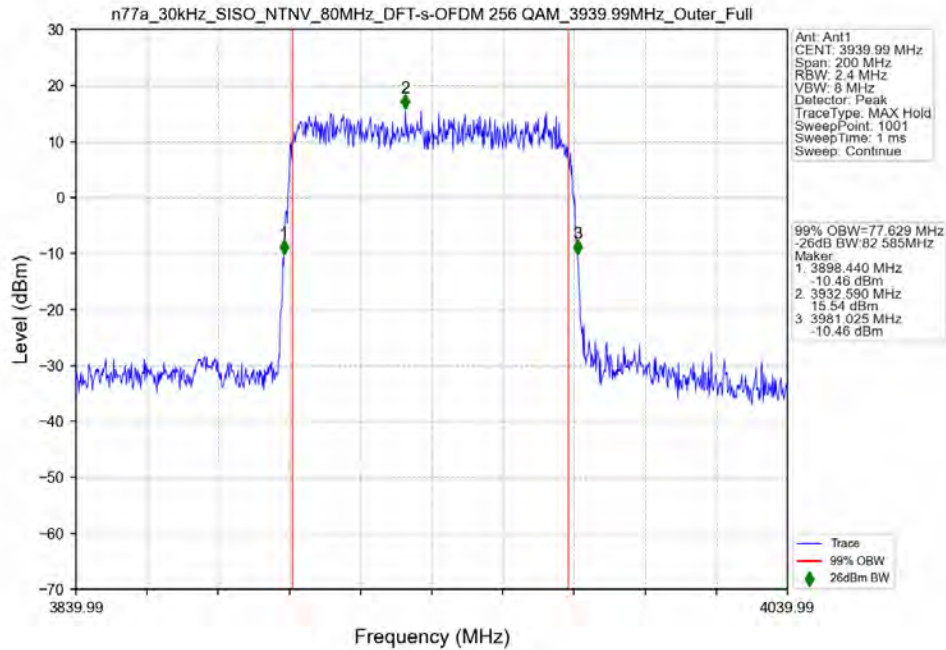
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Report No.: SZCR240100038409

Rev.: 01

Page: 176 of 973

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n77a_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3740.01MHz_Outer_Full



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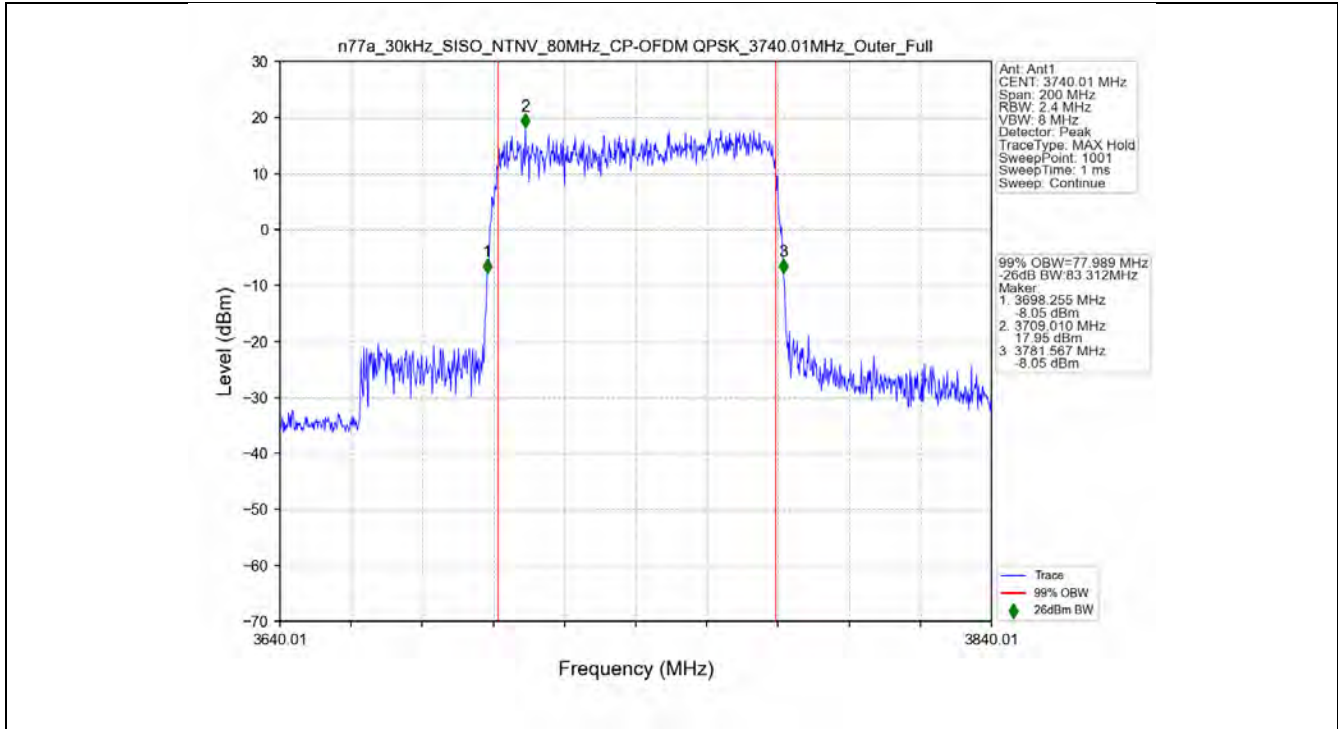


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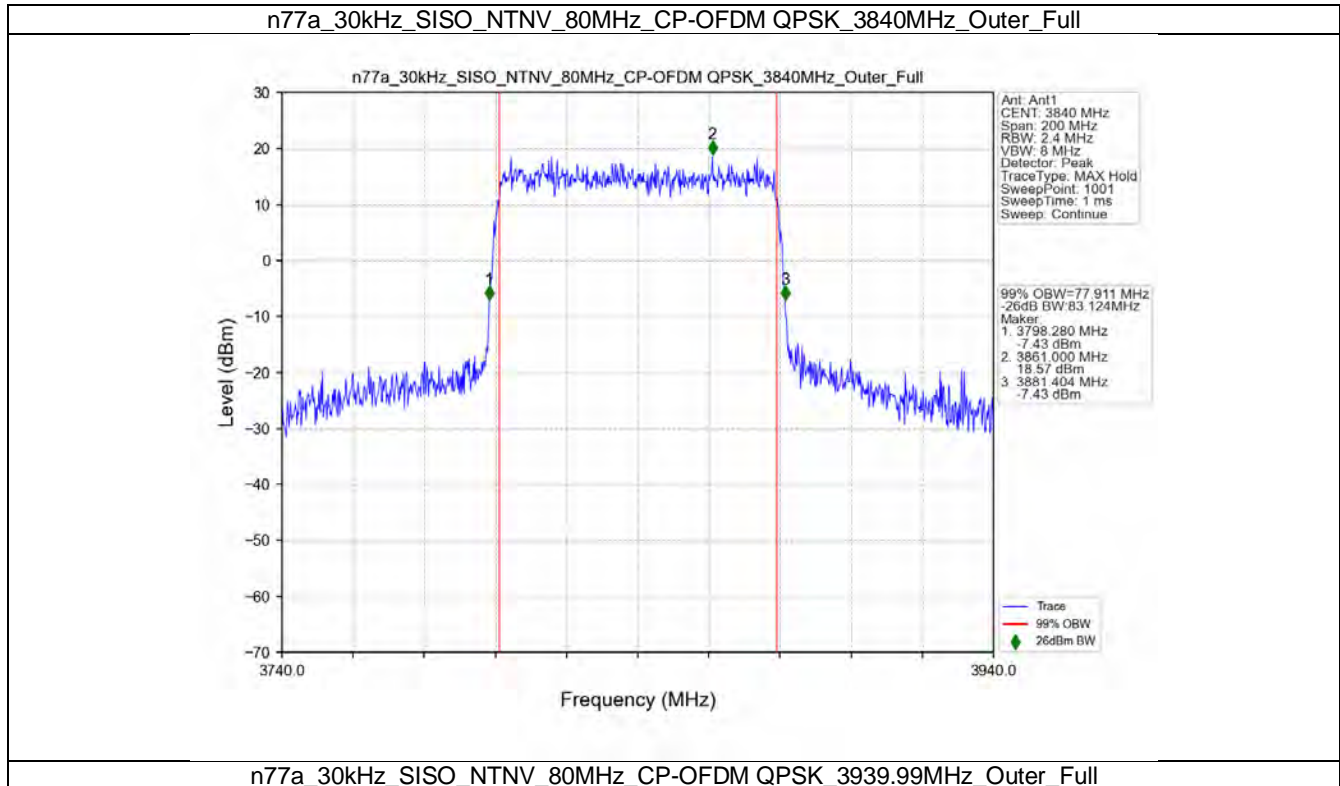


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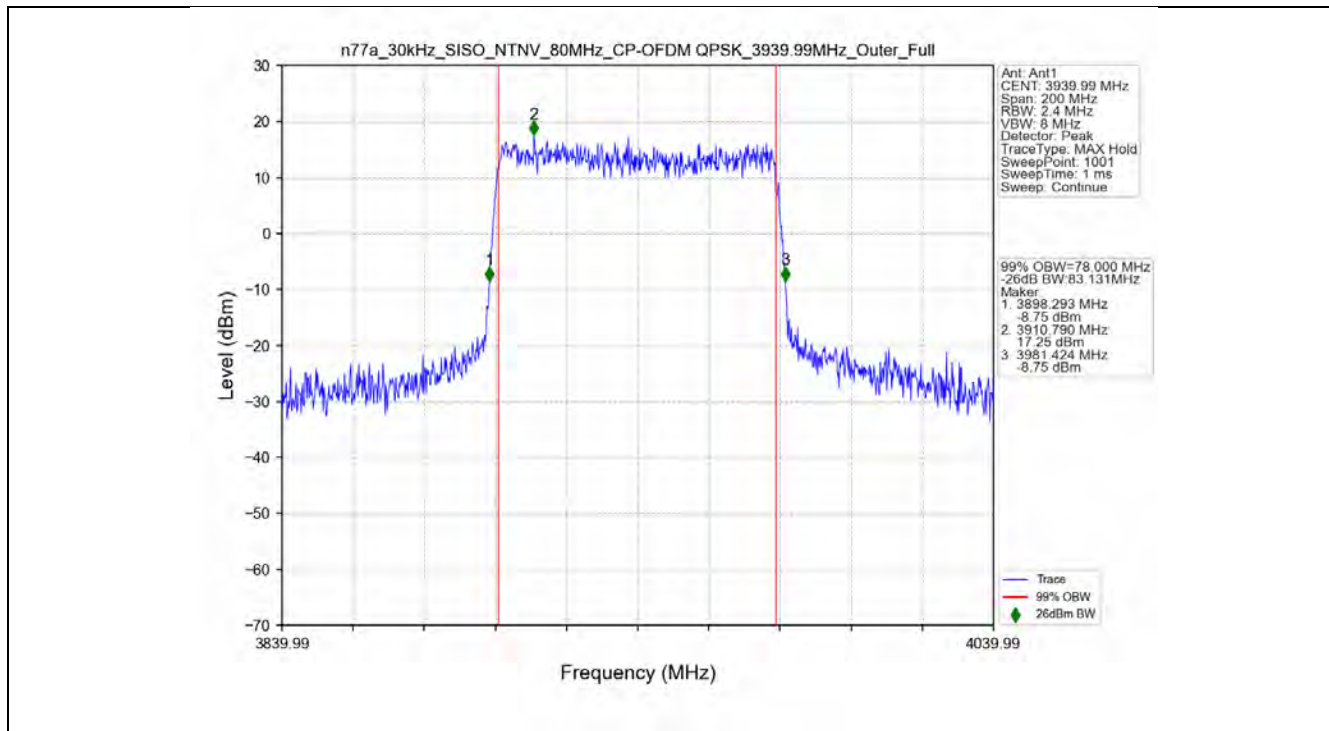
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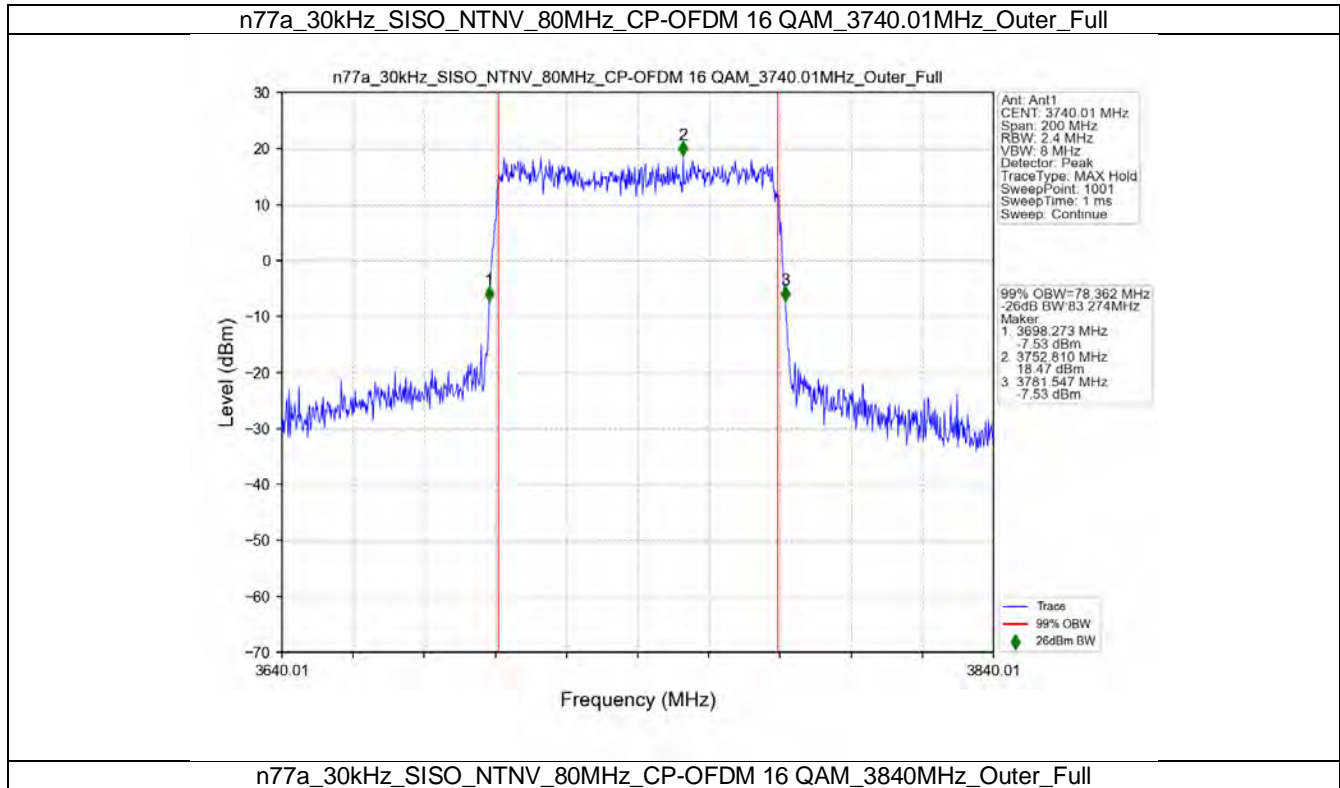


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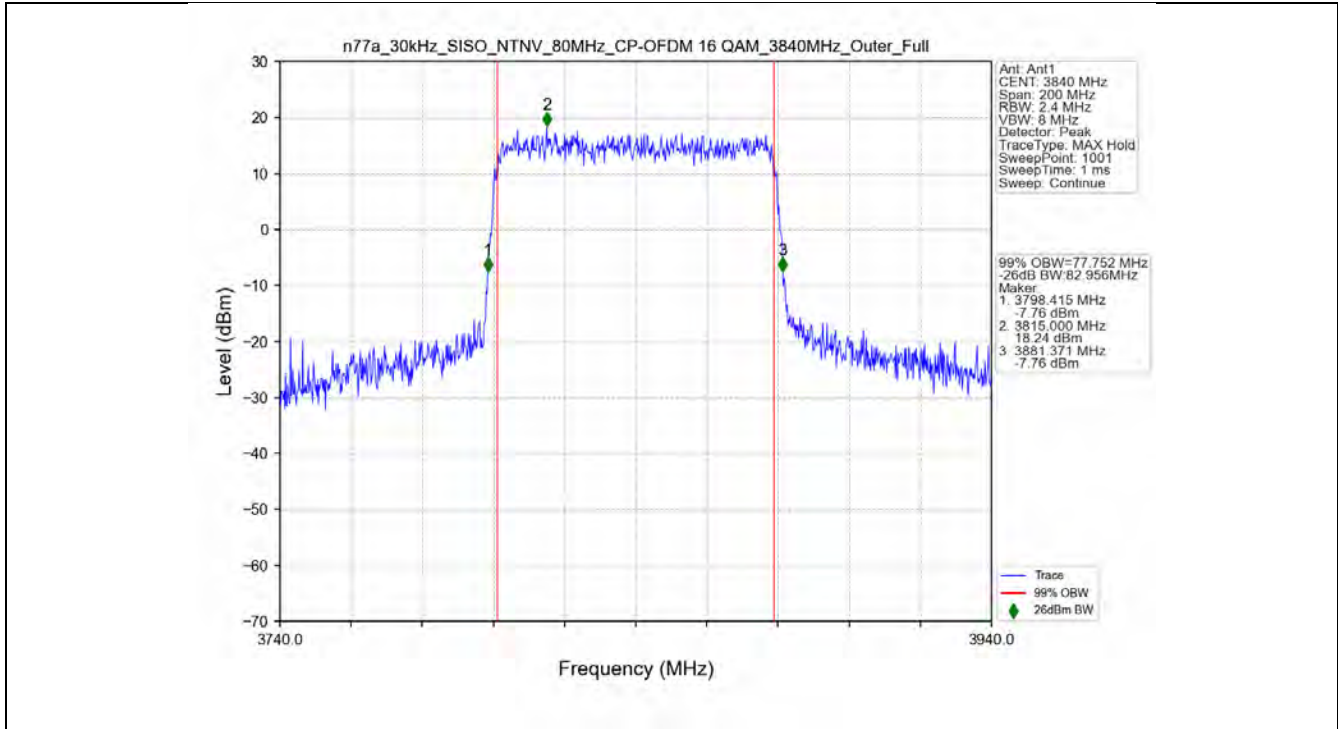


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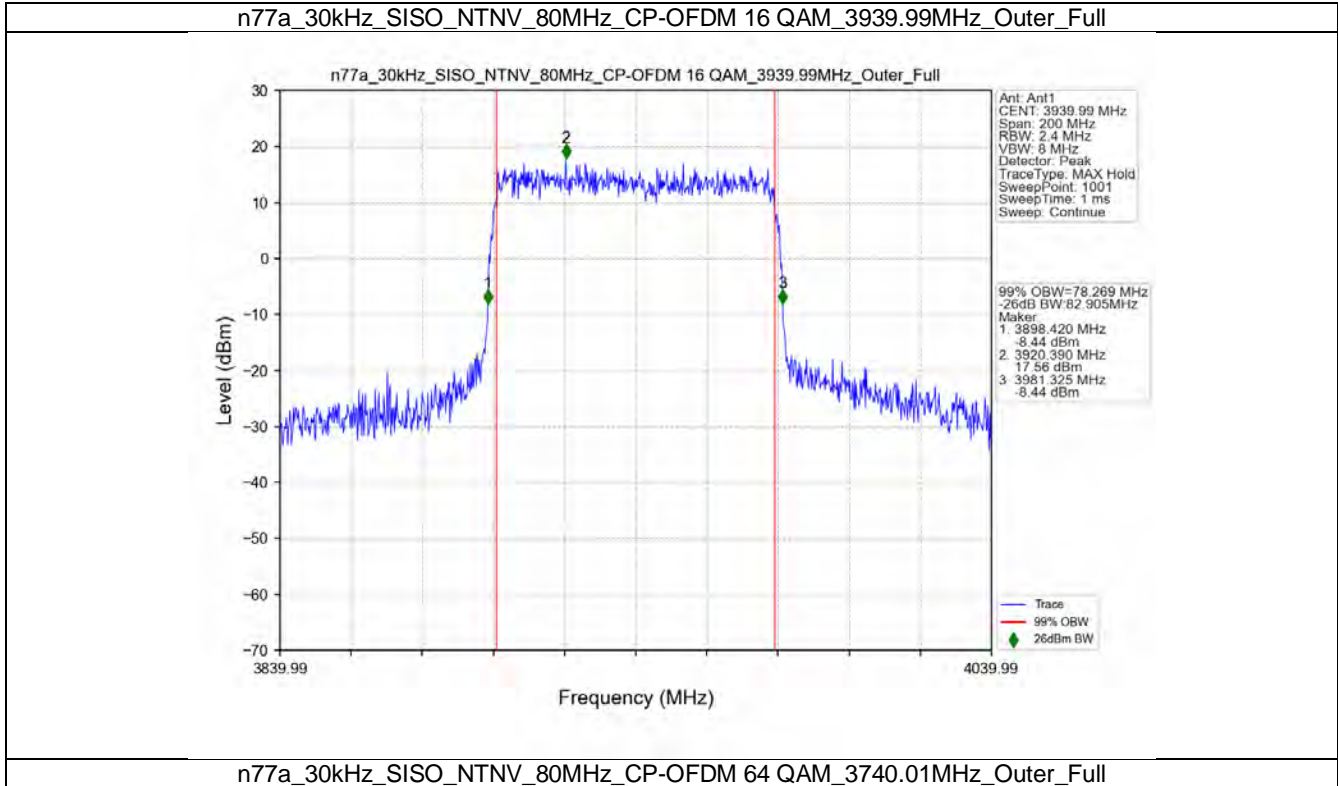


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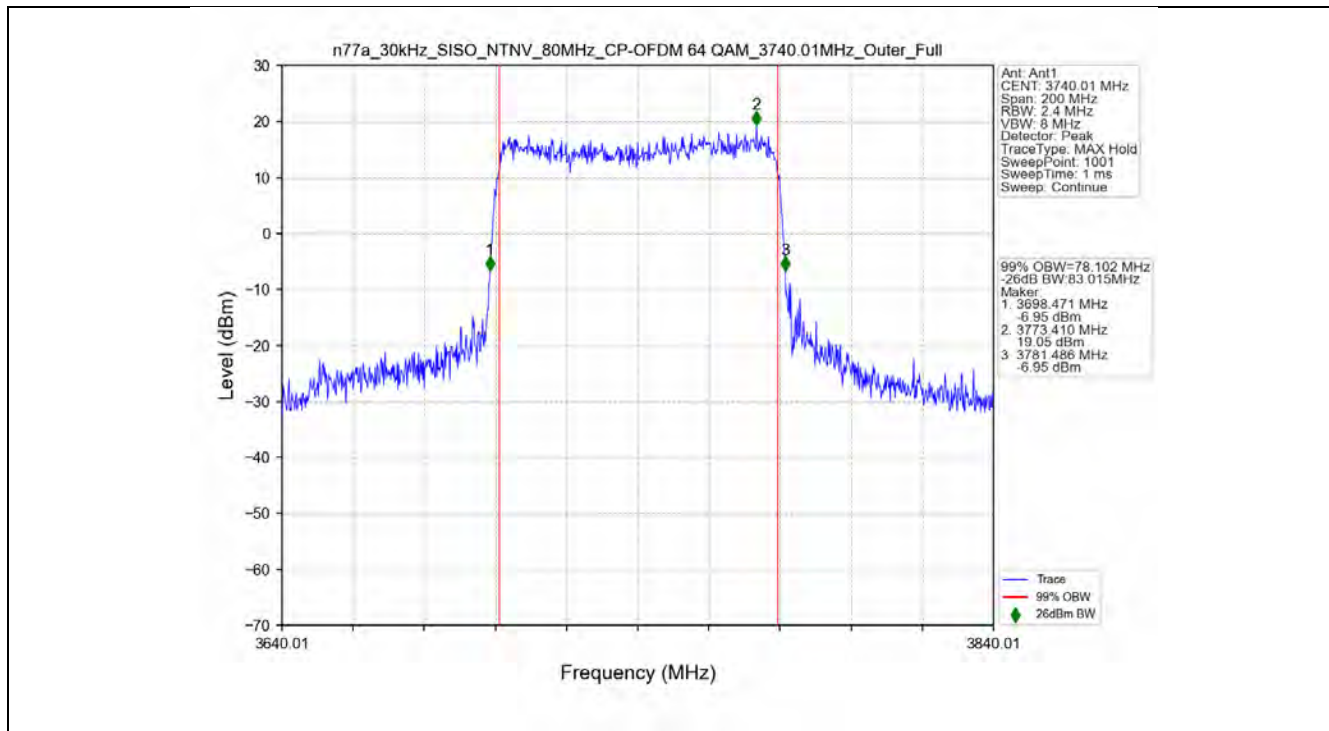
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Report No.: SZCR240100038409
 Rev.: 01
 Page: 183 of 973



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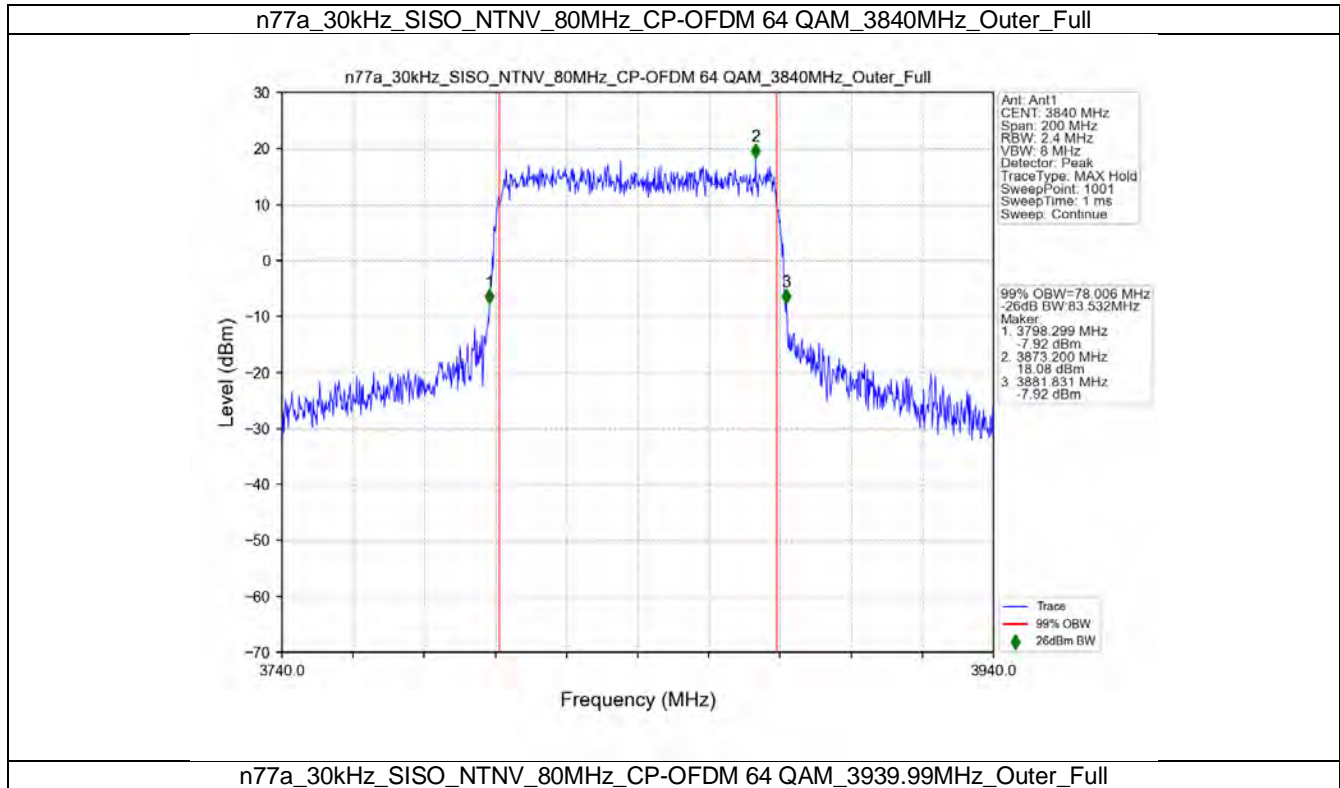


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Report No.: SZCR240100038409

Rev.: 01

Page: 184 of 973



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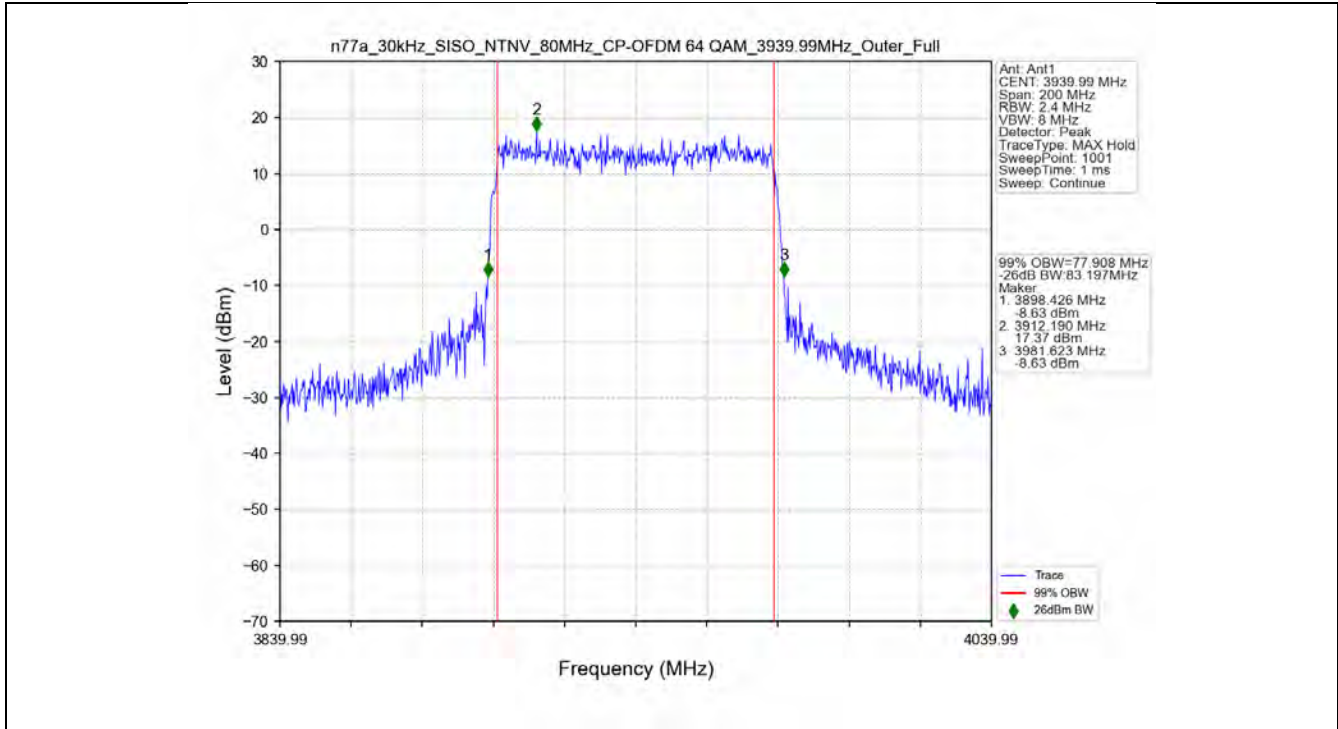


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Report No.: SZCR240100038409

Rev.: 01

Page: 185 of 973



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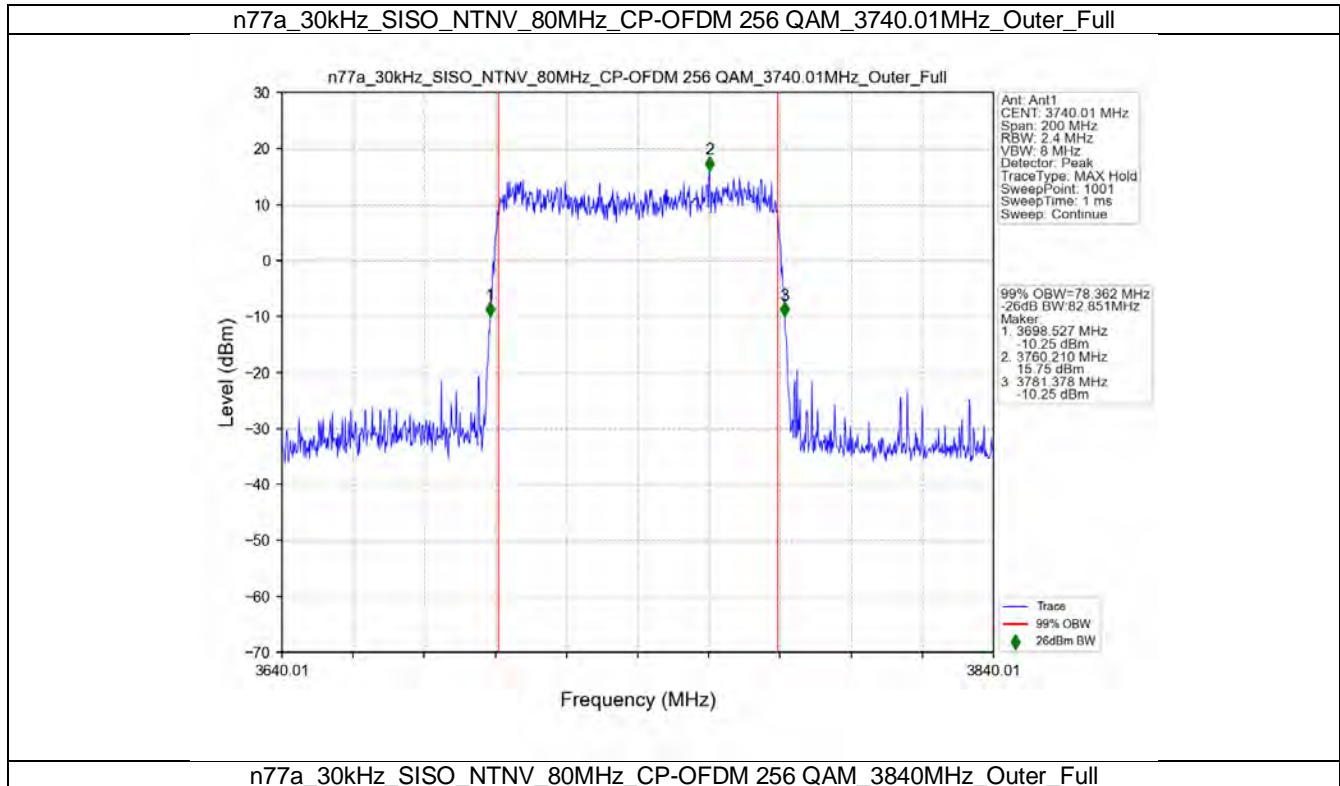


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Report No.: SZCR240100038409

Rev.: 01

Page: 186 of 973



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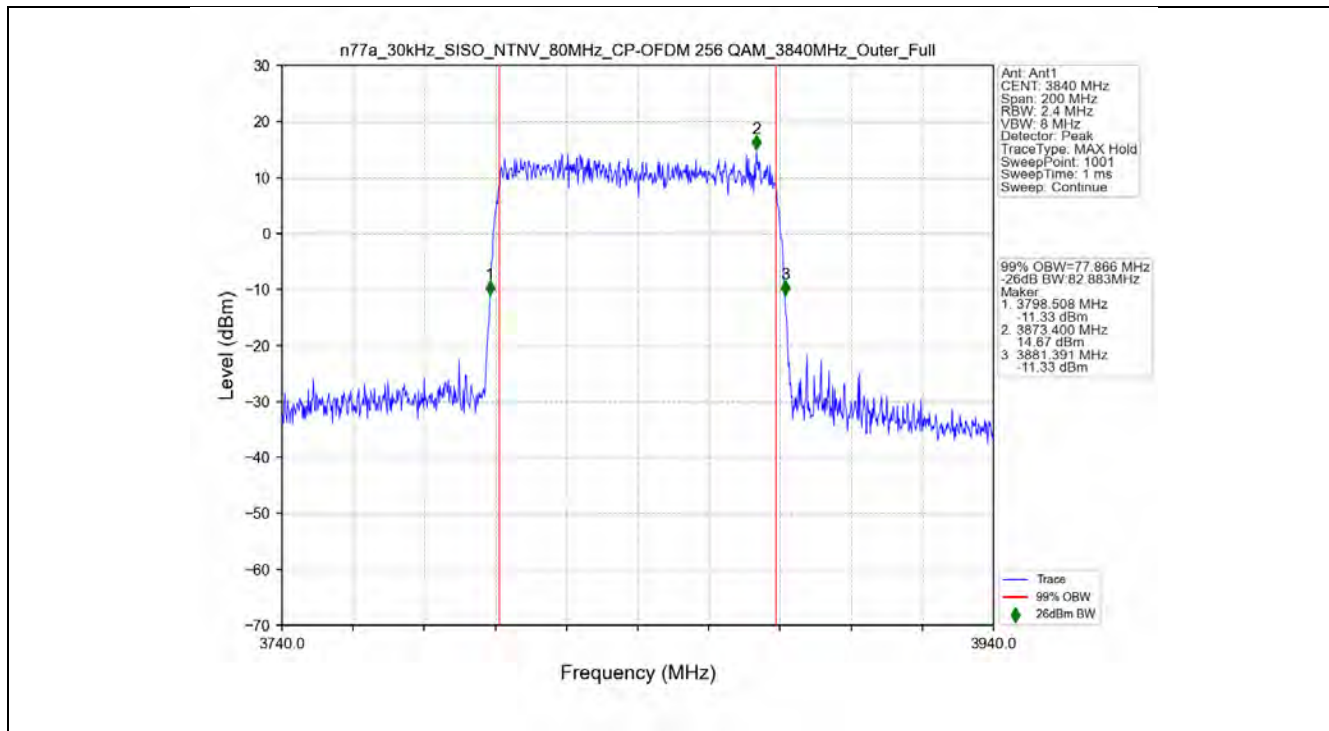
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Report No.: SZCR240100038409
 Rev.: 01
 Page: 187 of 973



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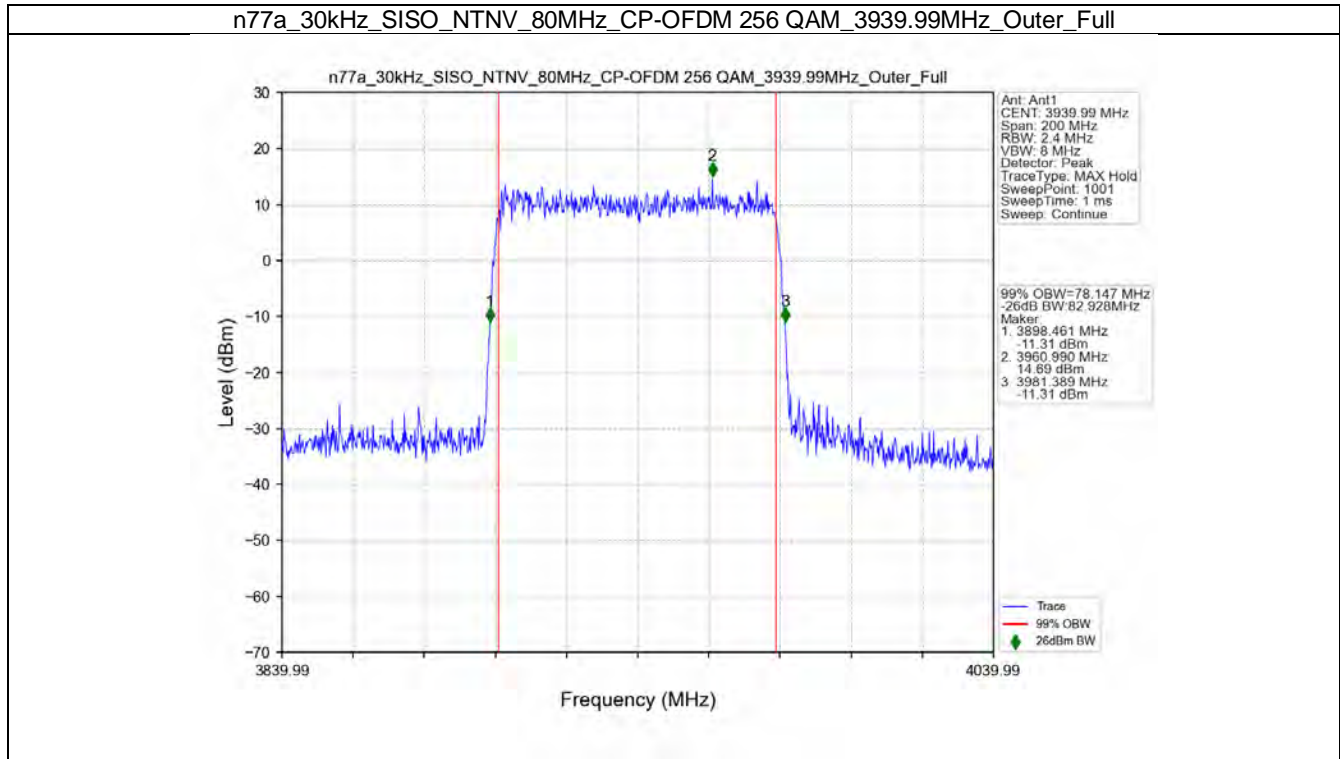


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Report No.: SZCR240100038409

Rev.: 01

Page: 188 of 973



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Report No.: SZCR240100038409

Rev.: 01

Page: 189 of 973

3.6 30k_SISO_100MHz_NTNV

3.6.1 Test Result

5G NR n77a 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	3750	Outer_Full	97.32	103.23	/	Pass
	3840	Outer_Full	97.35	103.27	/	Pass
	3930	Outer_Full	97.20	103.21	/	Pass
DFT-s-OFDM QPSK	3750	Outer_Full	97.38	103.74	/	Pass
	3840	Outer_Full	96.77	103.32	/	Pass
	3930	Outer_Full	97.14	103.47	/	Pass
DFT-s-OFDM 16 QAM	3750	Outer_Full	96.90	103.20	/	Pass
	3840	Outer_Full	97.17	103.02	/	Pass
	3930	Outer_Full	96.90	103.06	/	Pass
DFT-s-OFDM 64 QAM	3750	Outer_Full	96.97	103.71	/	Pass
	3840	Outer_Full	96.78	103.50	/	Pass
	3930	Outer_Full	96.97	103.21	/	Pass
DFT-s-OFDM 256 QAM	3750	Outer_Full	97.04	103.12	/	Pass
	3840	Outer_Full	97.12	103.33	/	Pass
	3930	Outer_Full	96.53	103.40	/	Pass
CP-OFDM QPSK	3750	Outer_Full	98.17	104.50	/	Pass
	3840	Outer_Full	98.31	104.64	/	Pass
	3930	Outer_Full	98.11	104.41	/	Pass
CP-OFDM 16 QAM	3750	Outer_Full	98.04	104.03	/	Pass
	3840	Outer_Full	98.65	104.27	/	Pass
	3930	Outer_Full	98.22	105.11	/	Pass
CP-OFDM 64 QAM	3750	Outer_Full	98.07	104.28	/	Pass
	3840	Outer_Full	98.45	104.70	/	Pass
	3930	Outer_Full	98.37	104.41	/	Pass
CP-OFDM 256 QAM	3750	Outer_Full	97.72	104.09	/	Pass
	3840	Outer_Full	97.92	104.13	/	Pass
	3930	Outer_Full	98.20	104.18	/	Pass



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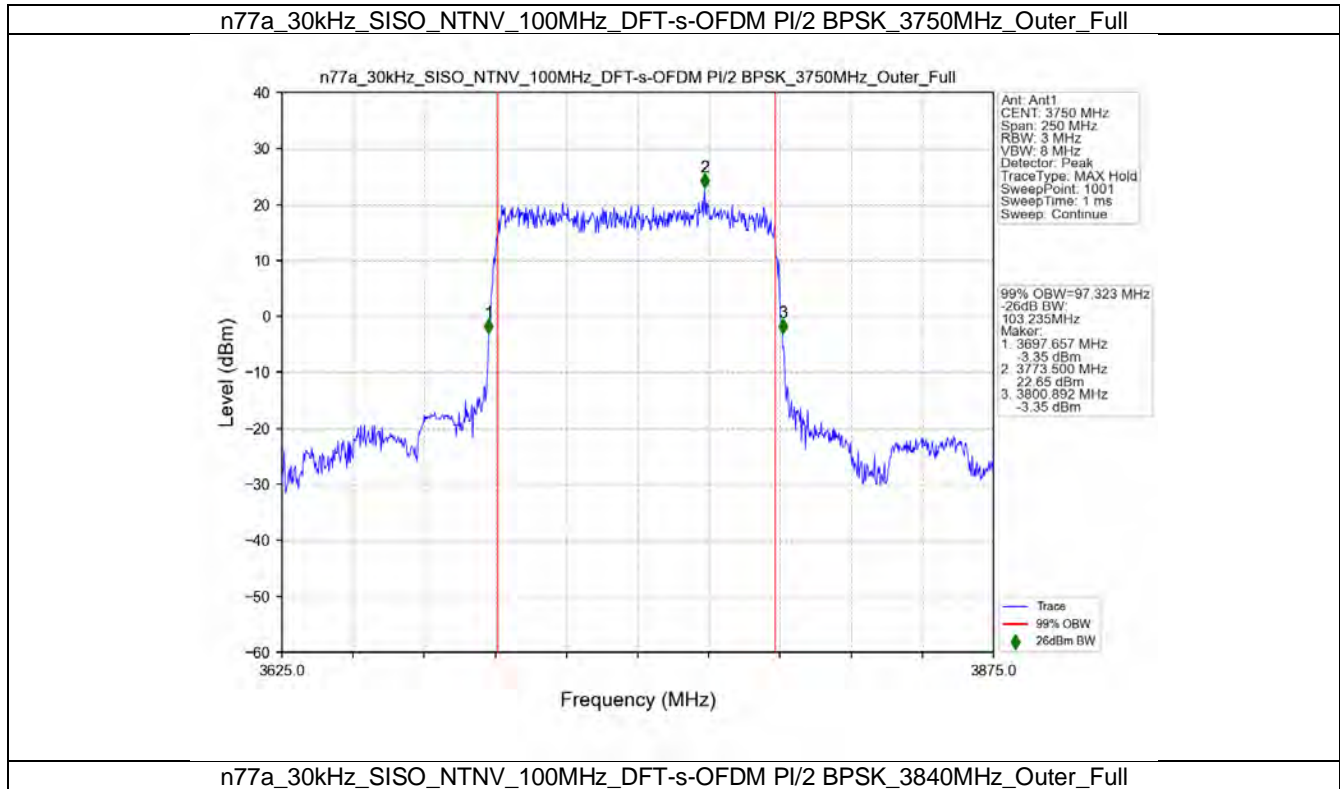
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Rev.: 01

Page: 190 of 973

3.6.2 Test Graph



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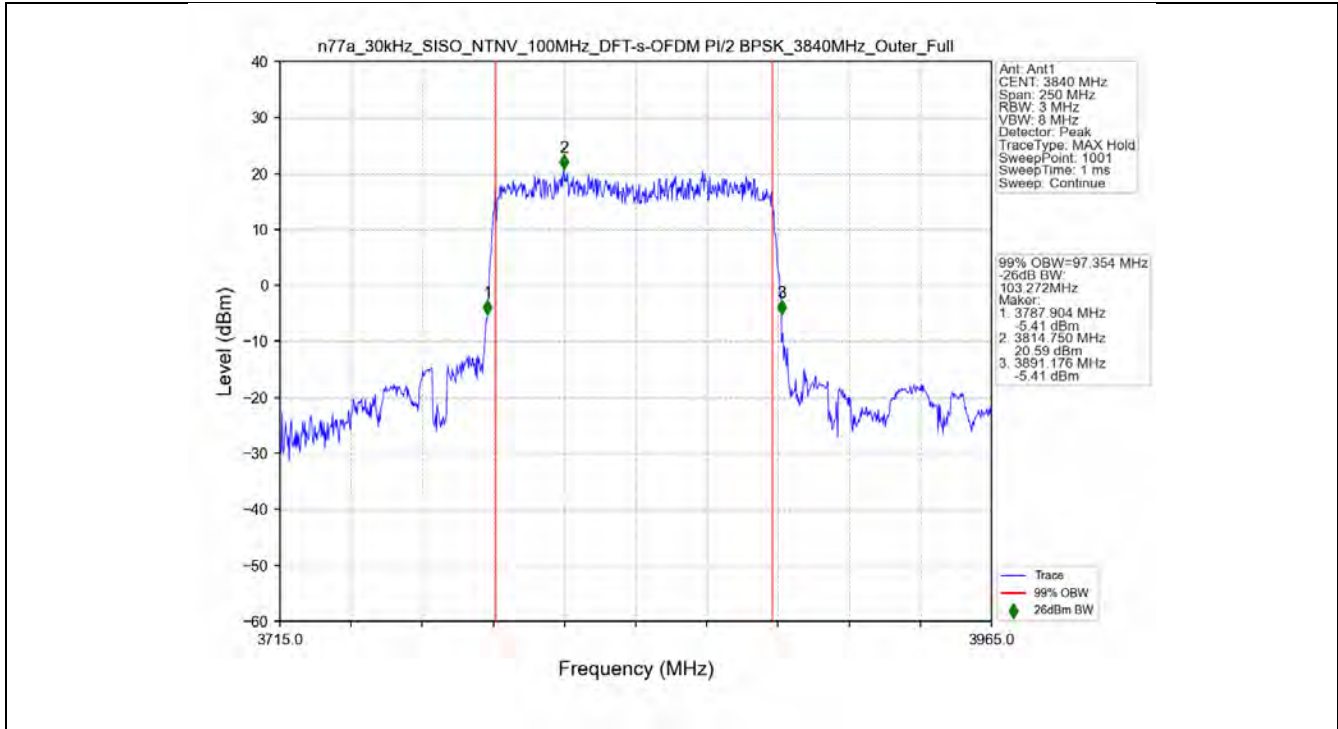


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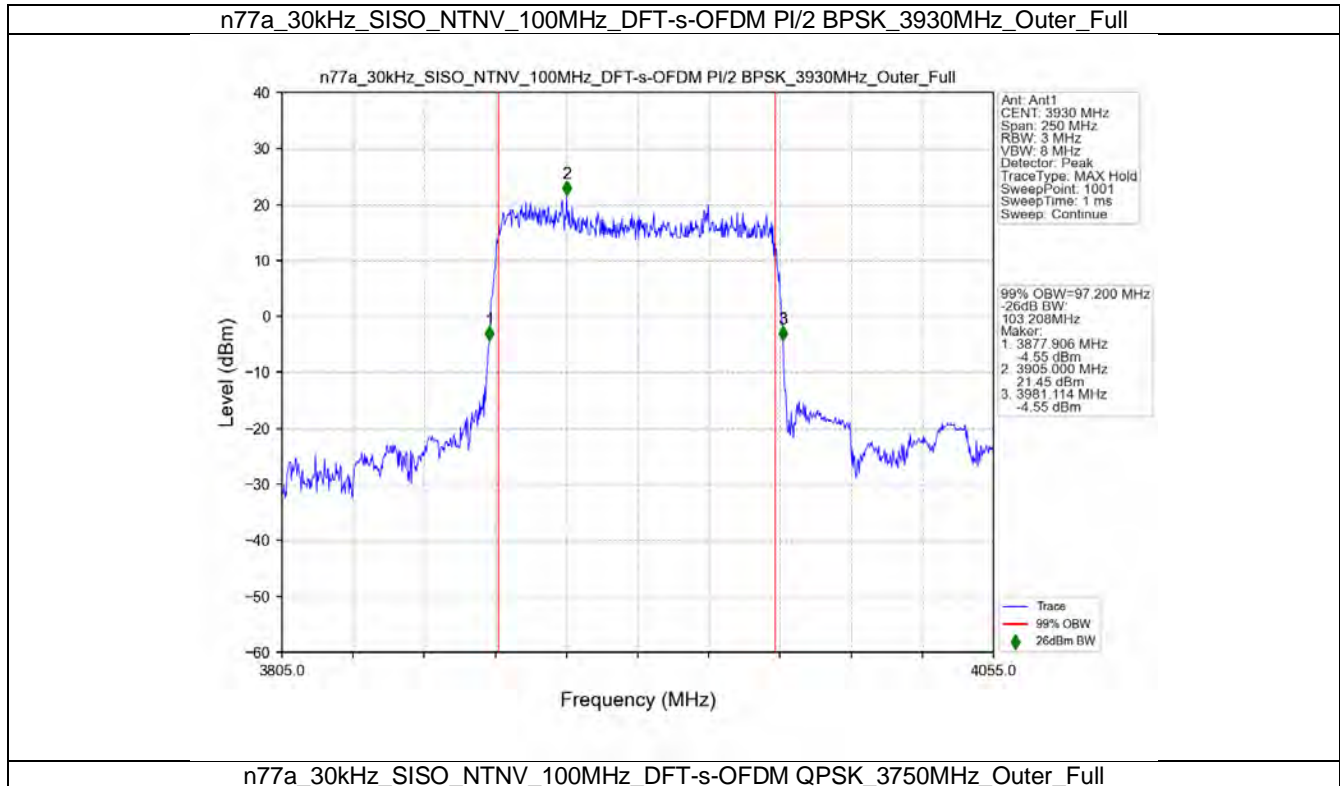


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Rev.: 01

Page: 192 of 973



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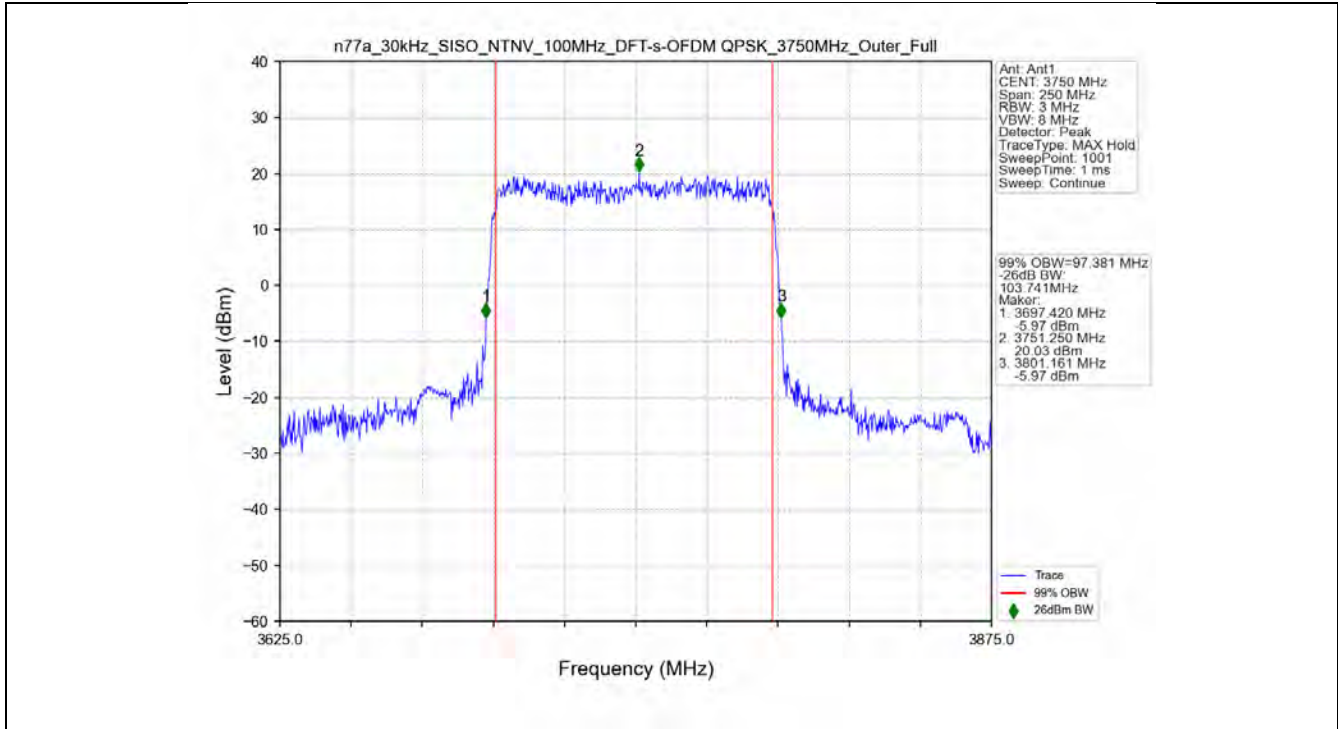


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Report No.: SZCR240100038409

Rev.: 01

Page: 193 of 973



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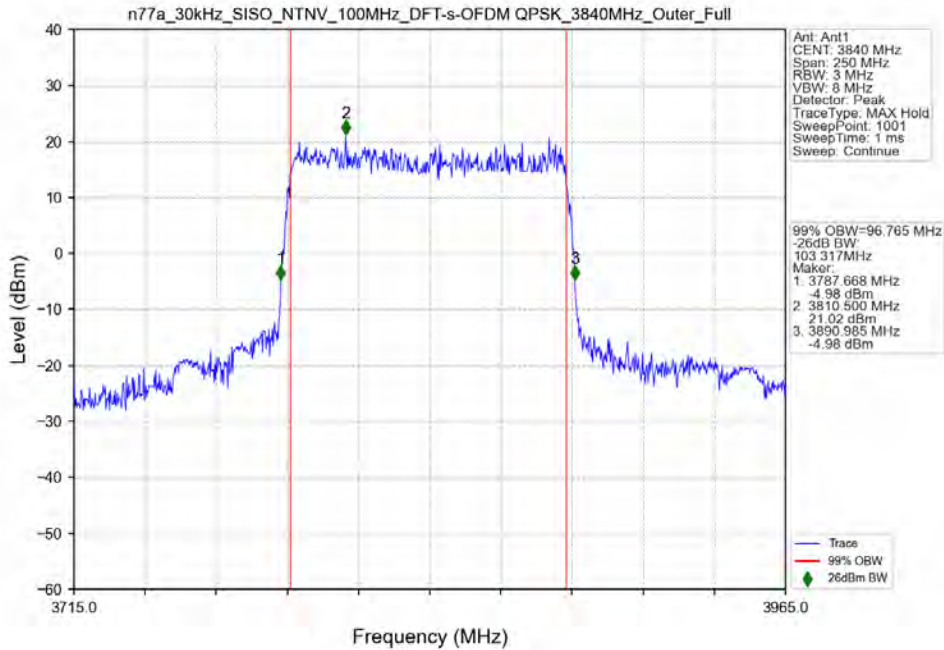
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Report No.: SZCR240100038409

Rev.: 01

Page: 194 of 973

n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3930MHz_Outer_Full



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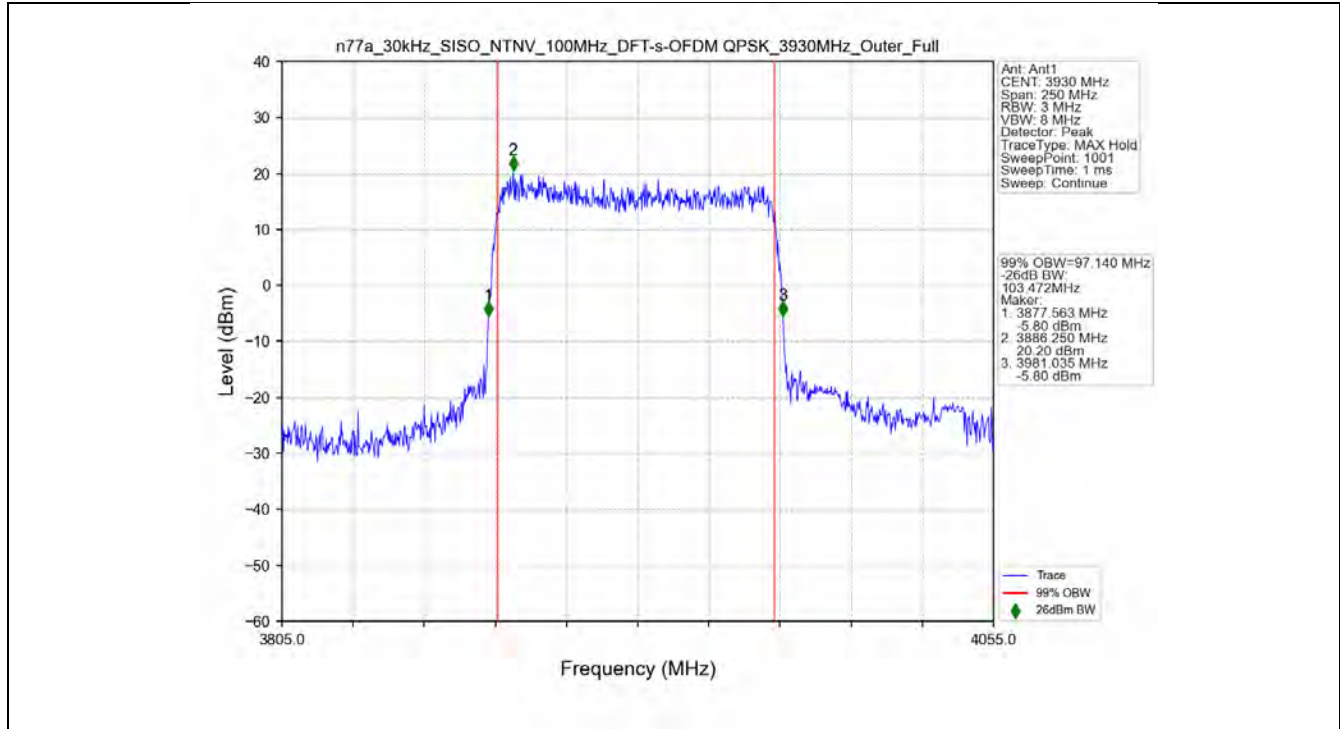


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Report No.: SZCR240100038409

Rev.: 01

Page: 195 of 973



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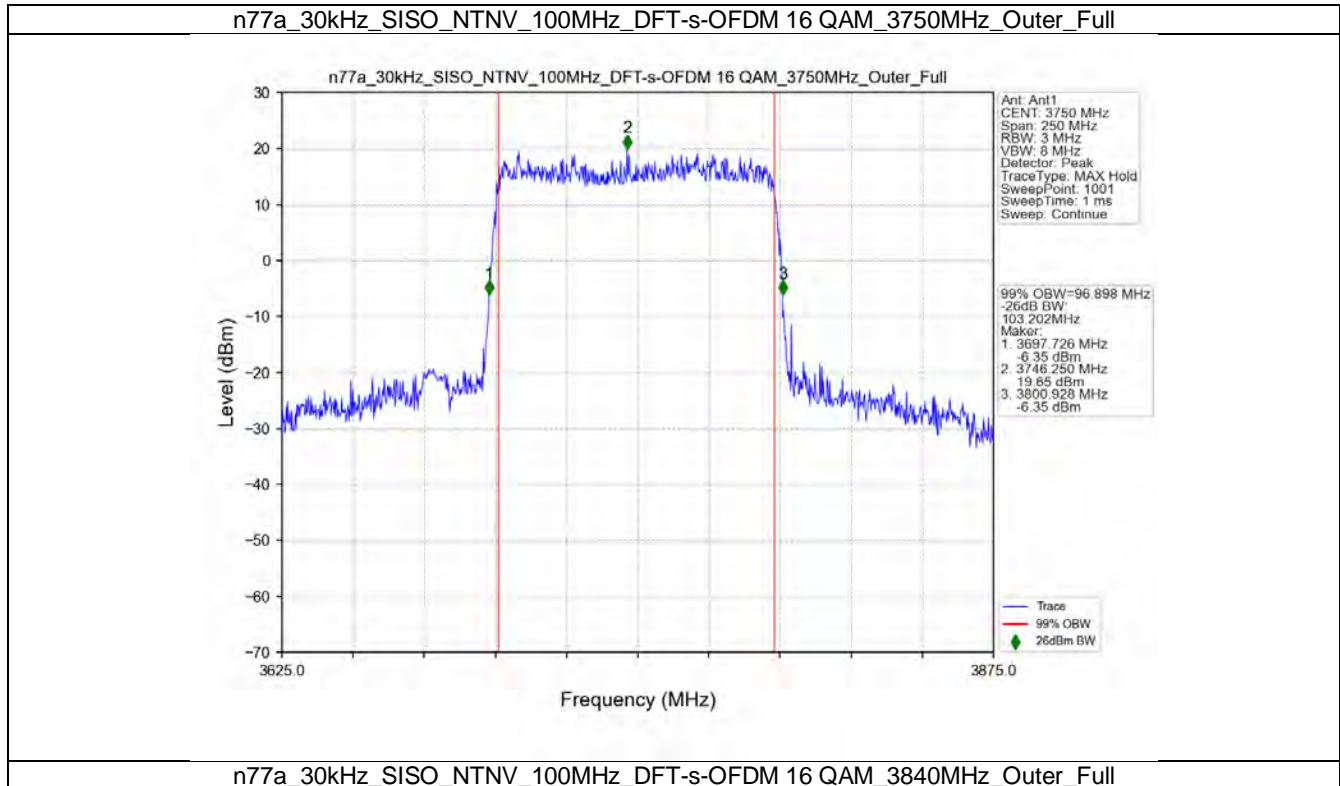


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Report No.: SZCR240100038409

Rev.: 01

Page: 196 of 973



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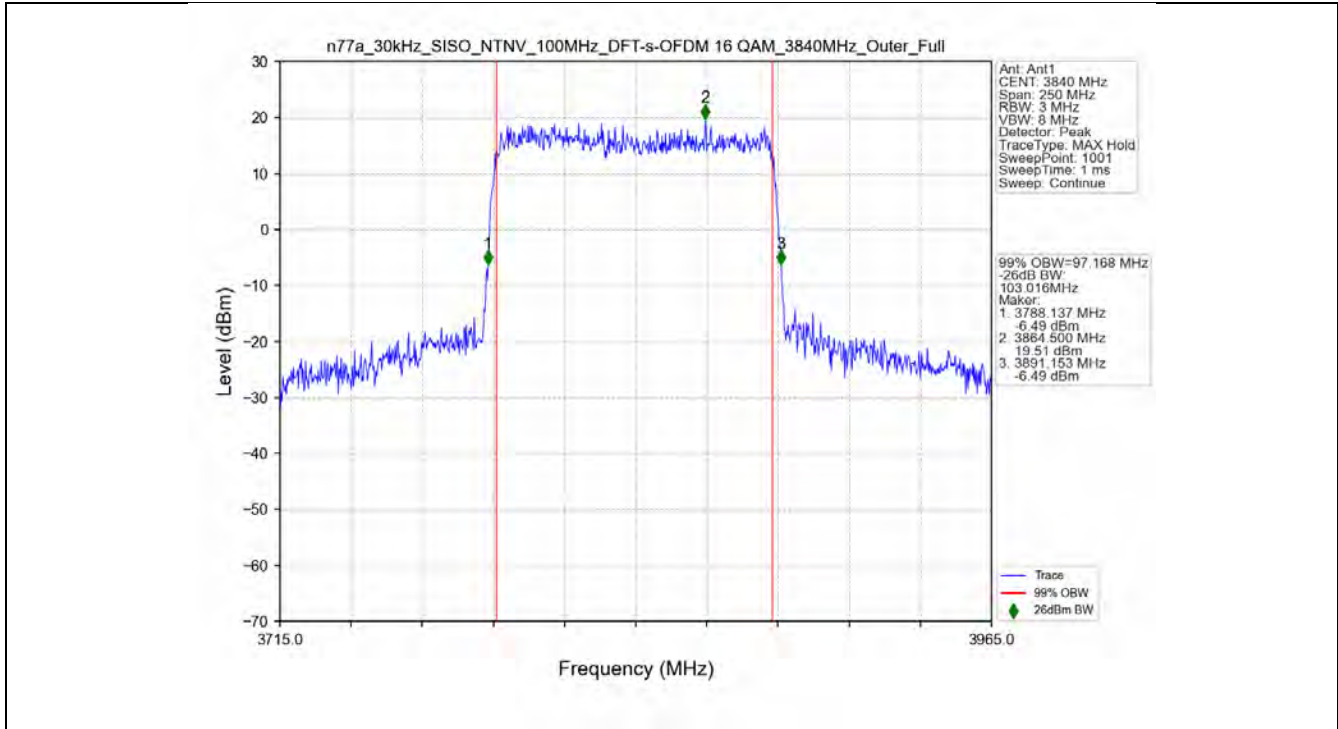


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Report No.: SZCR240100038409

Rev.: 01

Page: 197 of 973



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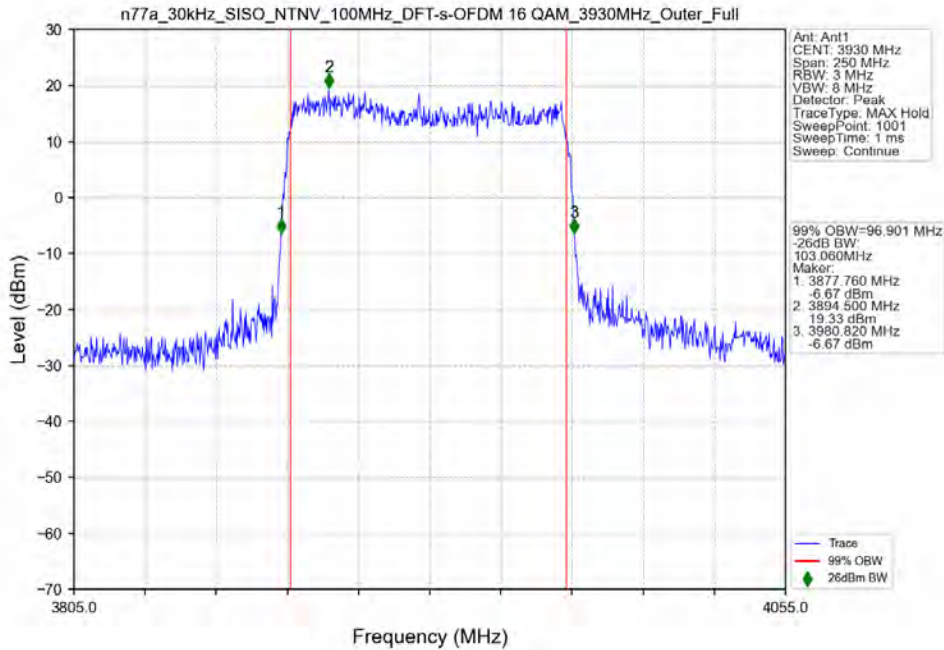
**SGS-CSTC Standards Technical Services Co., Ltd.
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Report No.: SZCR240100038409

Rev.: 01

Page: 198 of 973

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n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full



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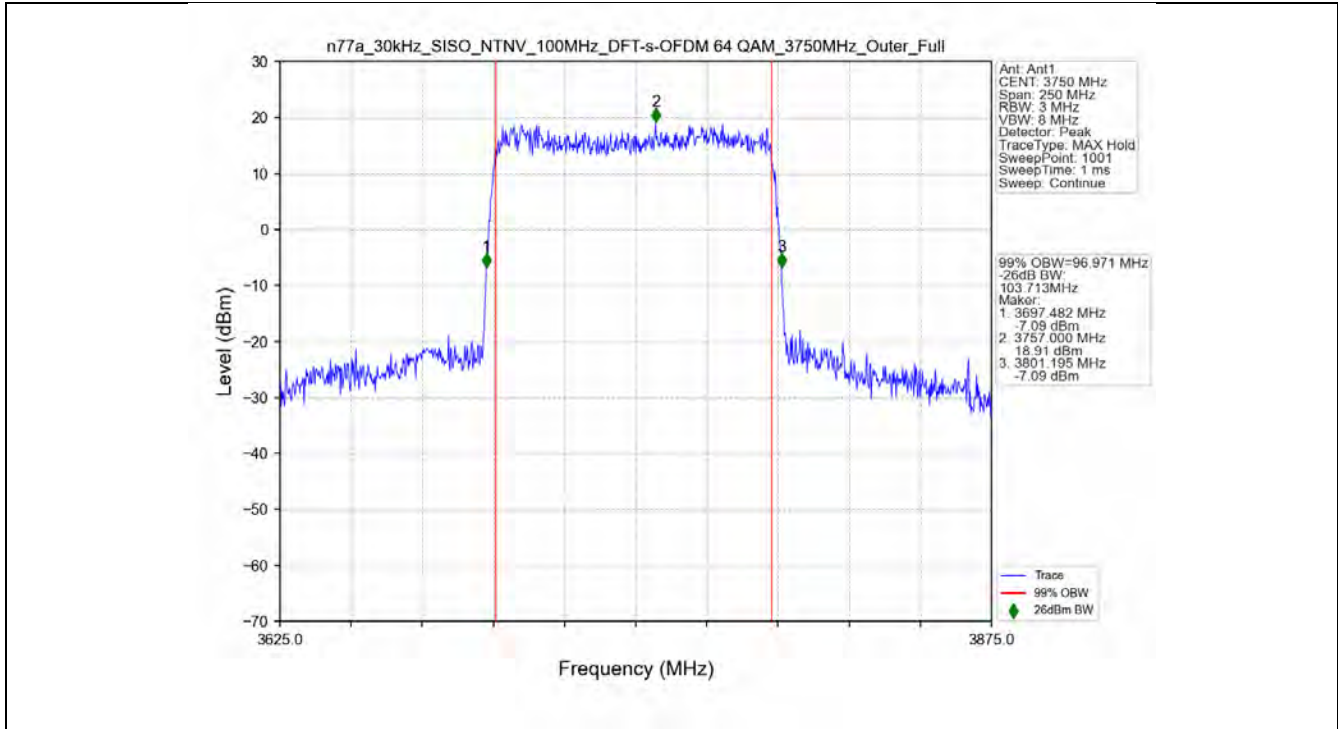


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Report No.: SZCR240100038409

Rev.: 01

Page: 199 of 973



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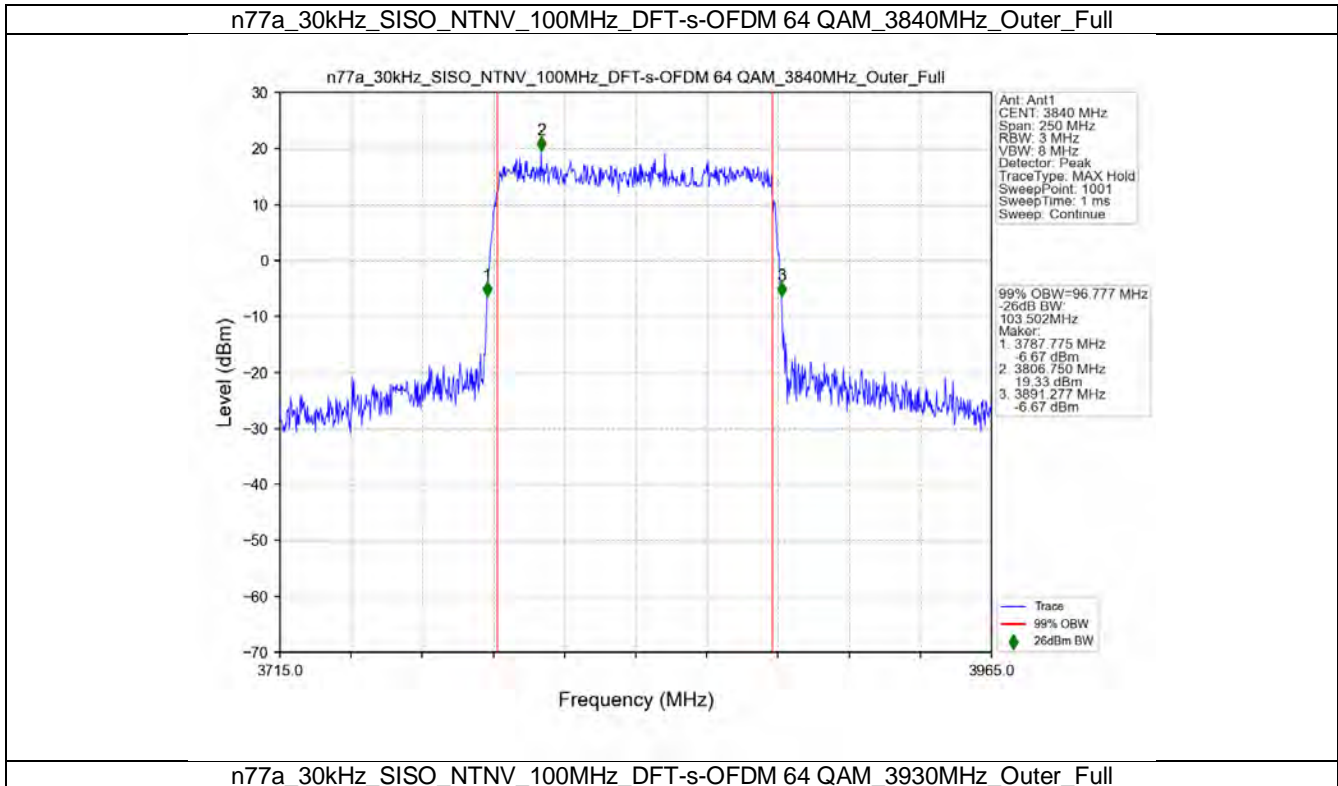


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Report No.: SZCR240100038409

Rev.: 01

Page: 200 of 973



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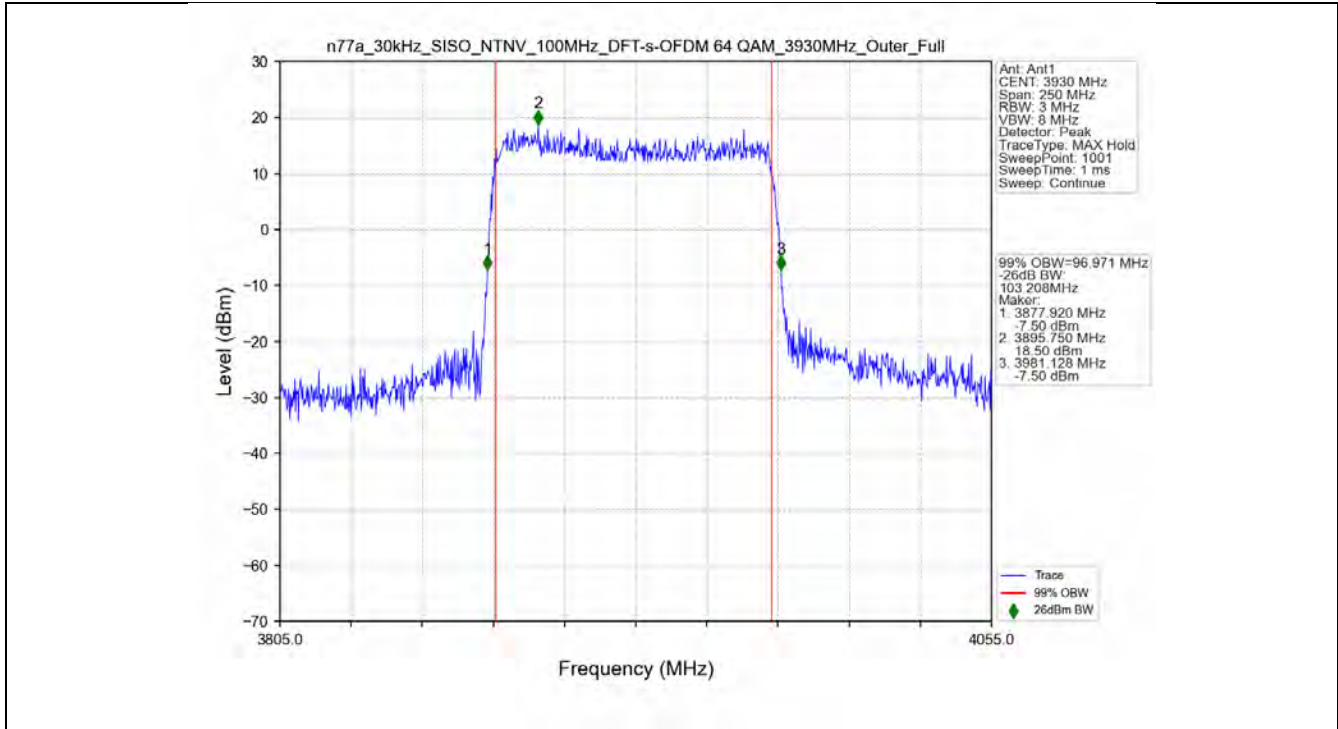


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Report No.: SZCR240100038409

Rev.: 01

Page: 201 of 973



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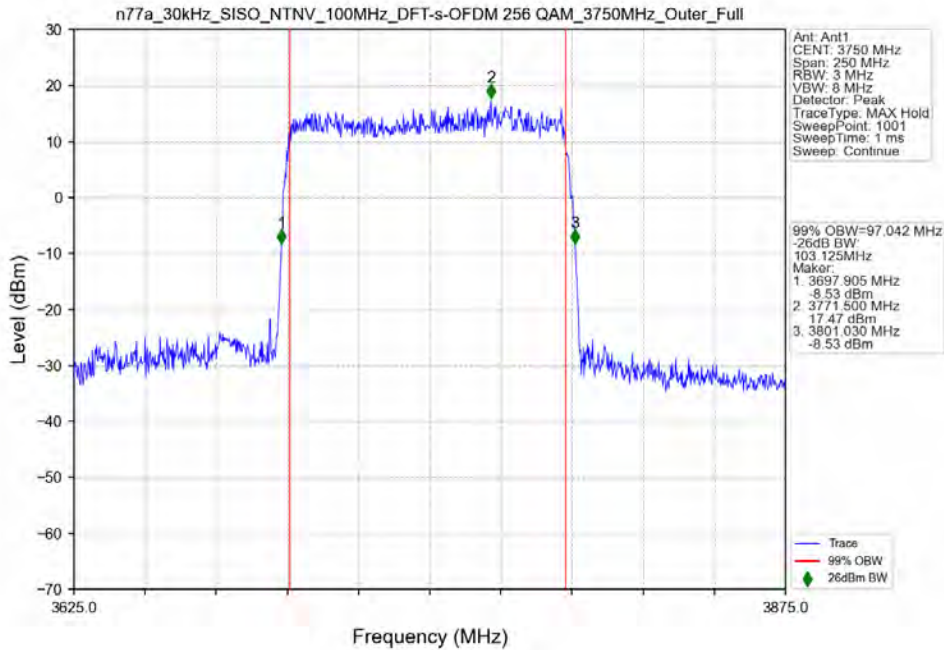
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Report No.: SZCR240100038409

Rev.: 01

Page: 202 of 973

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n77a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 256 QAM_3840MHz_Outer_Full



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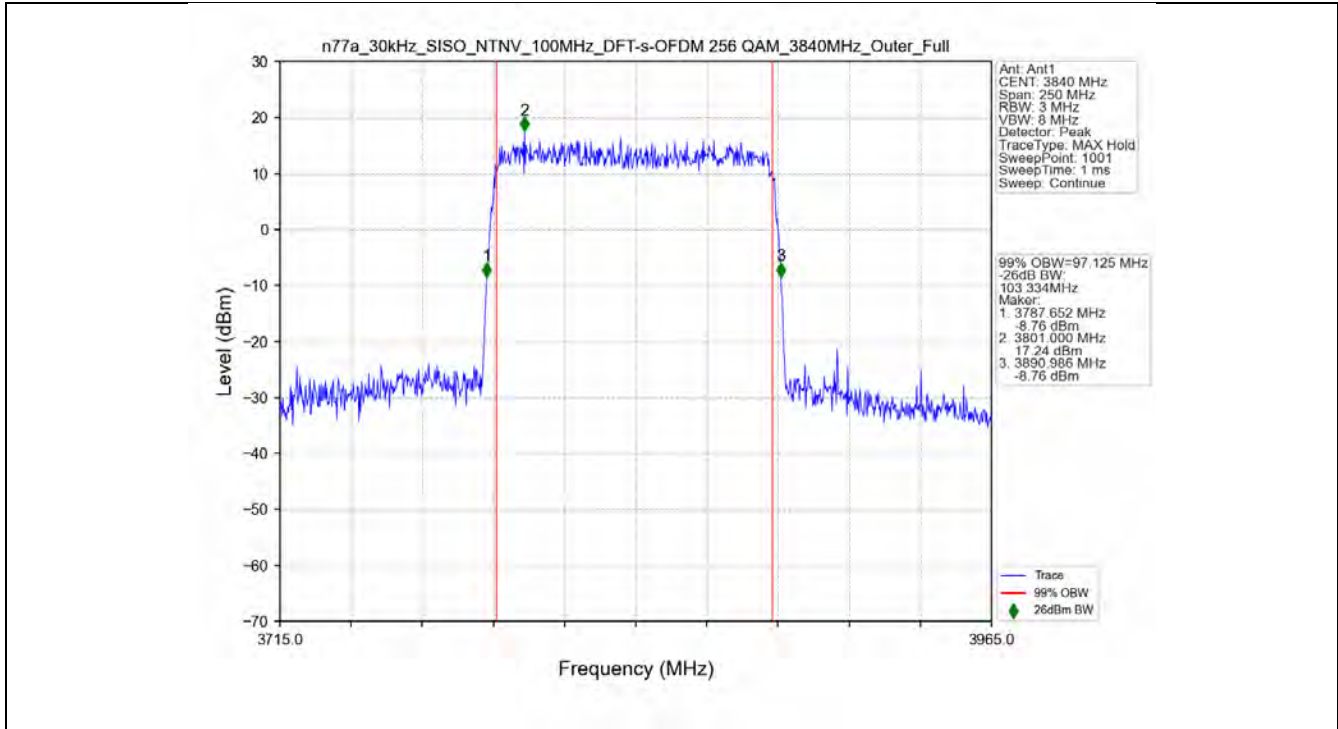


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Rev.: 01

Page: 203 of 973



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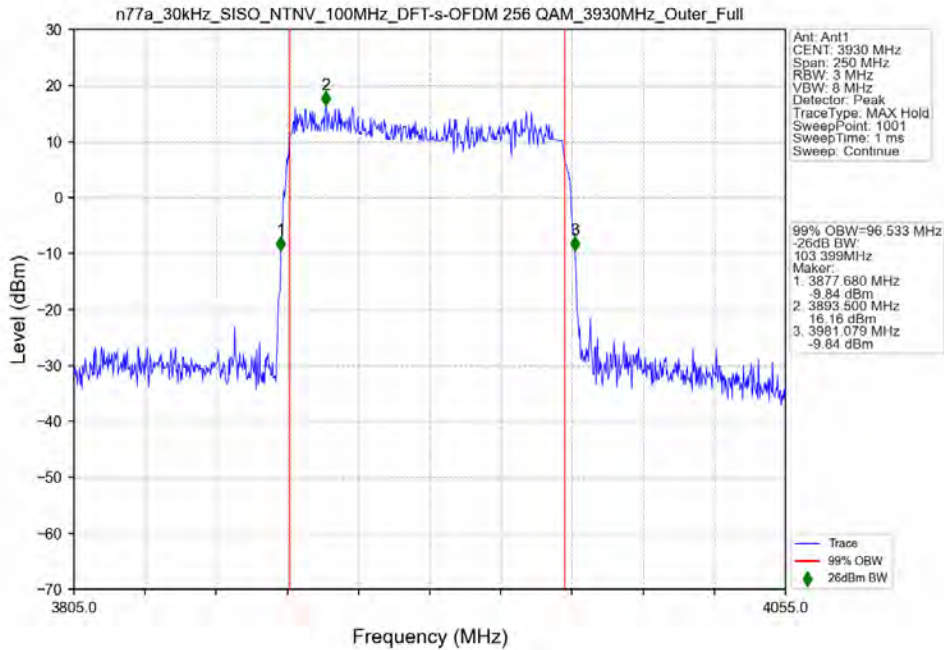
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Report No.: SZCR240100038409

Rev.: 01

Page: 204 of 973

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n77a_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3750MHz_Outer_Full



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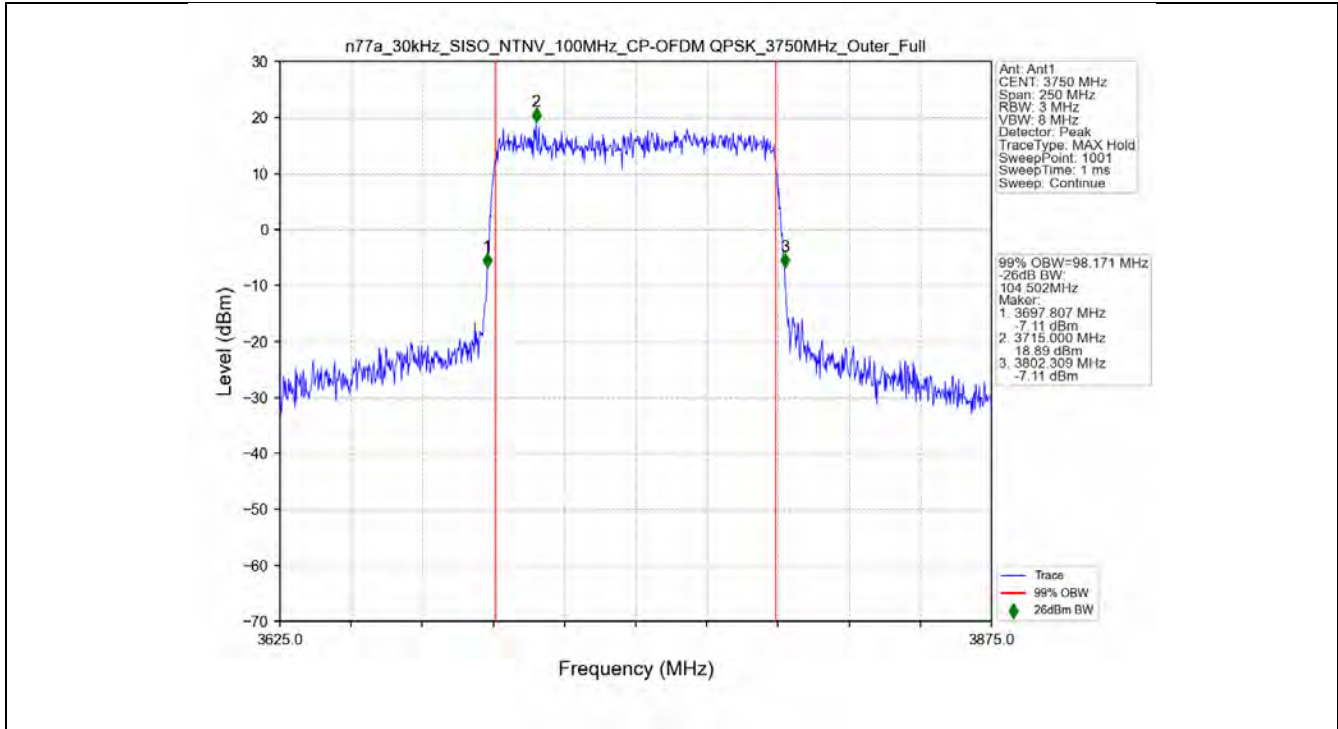


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Rev.: 01

Page: 205 of 973



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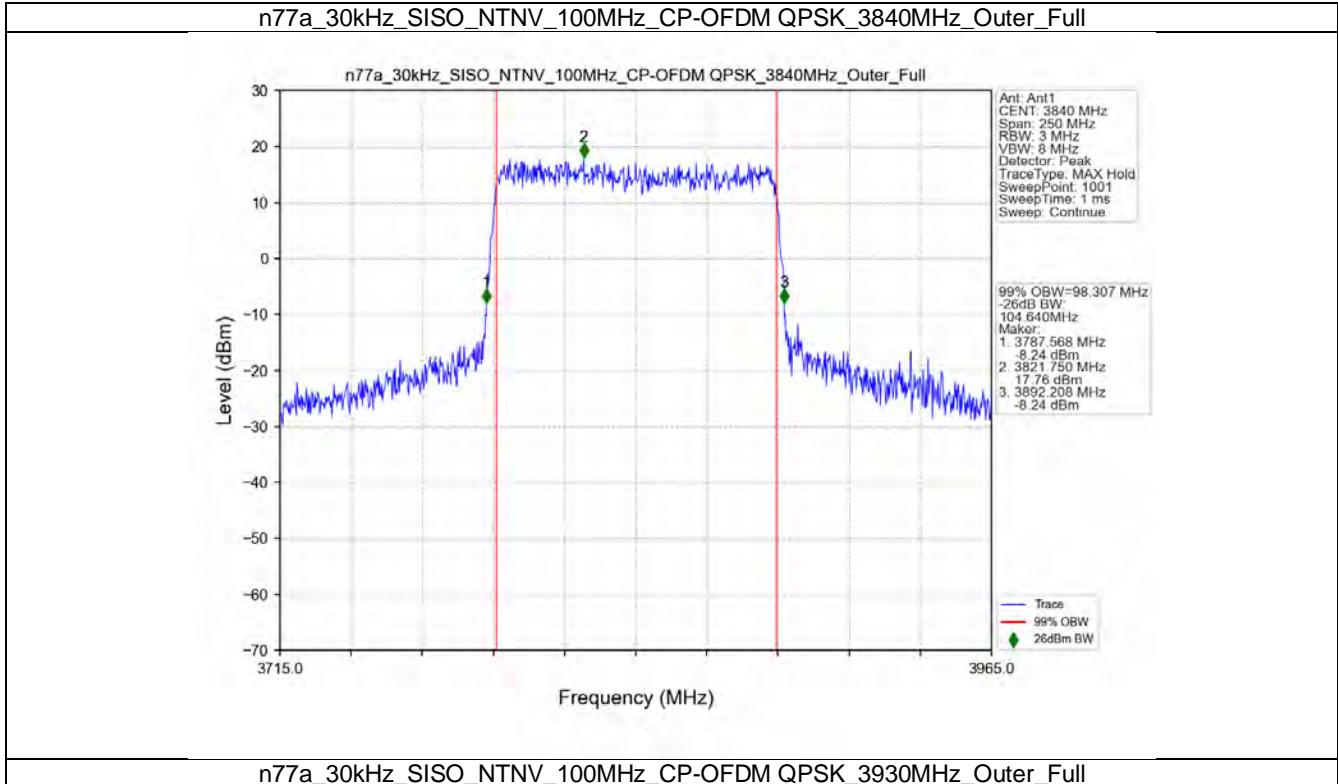


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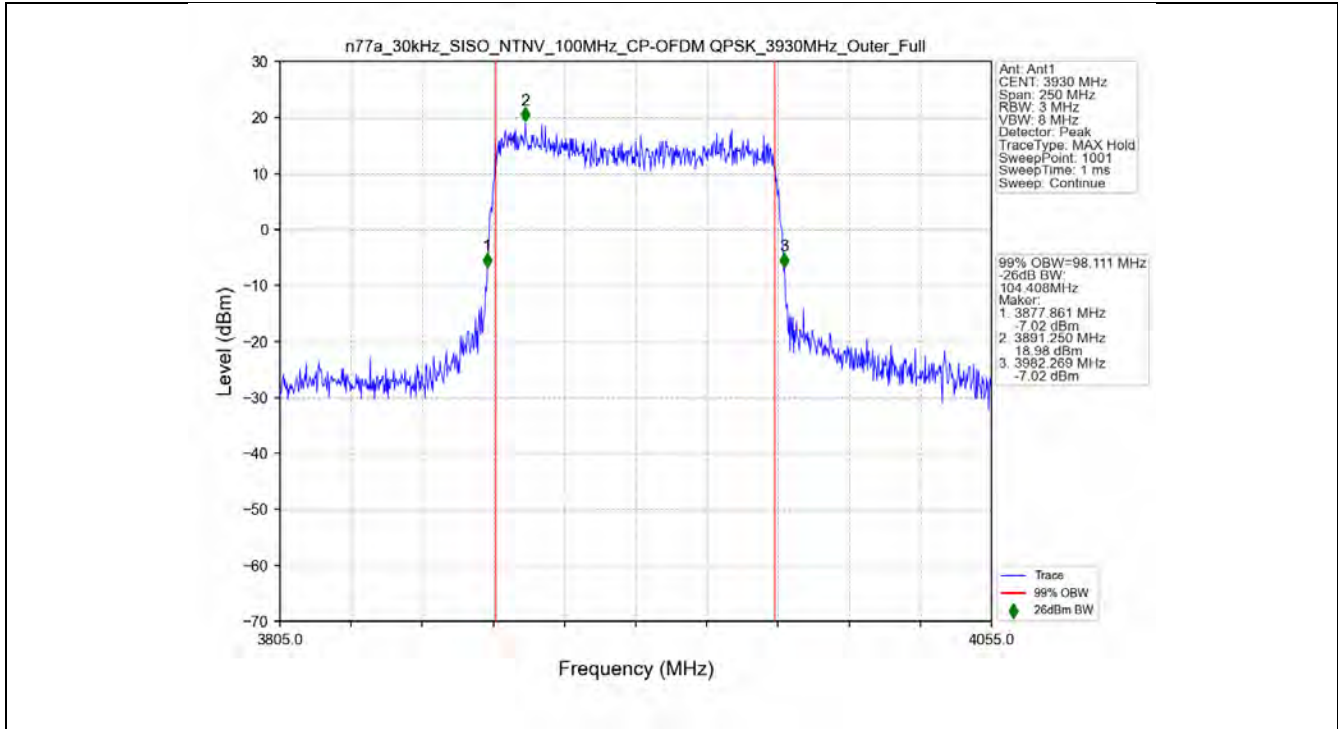


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Rev.: 01

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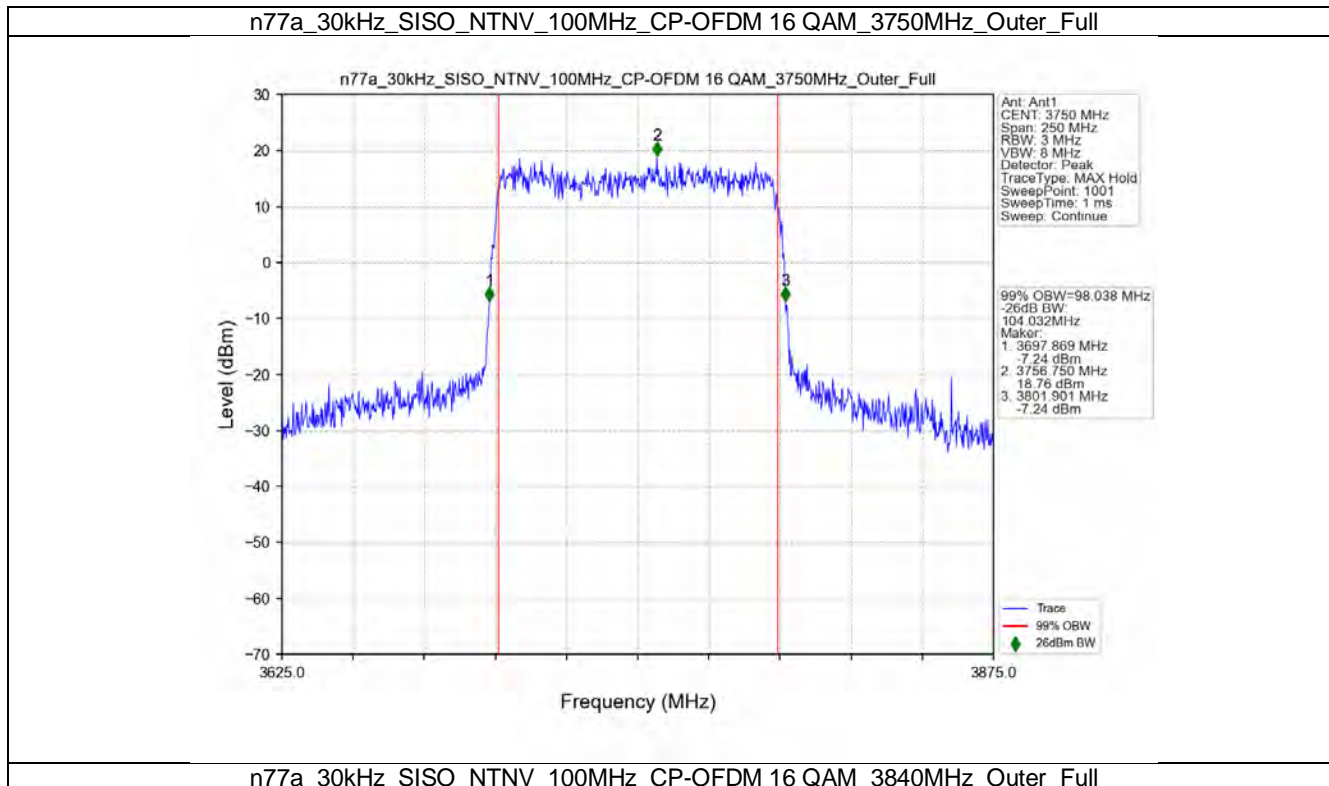
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Report No.: SZCR240100038409
Rev.: 01
Page: 208 of 973



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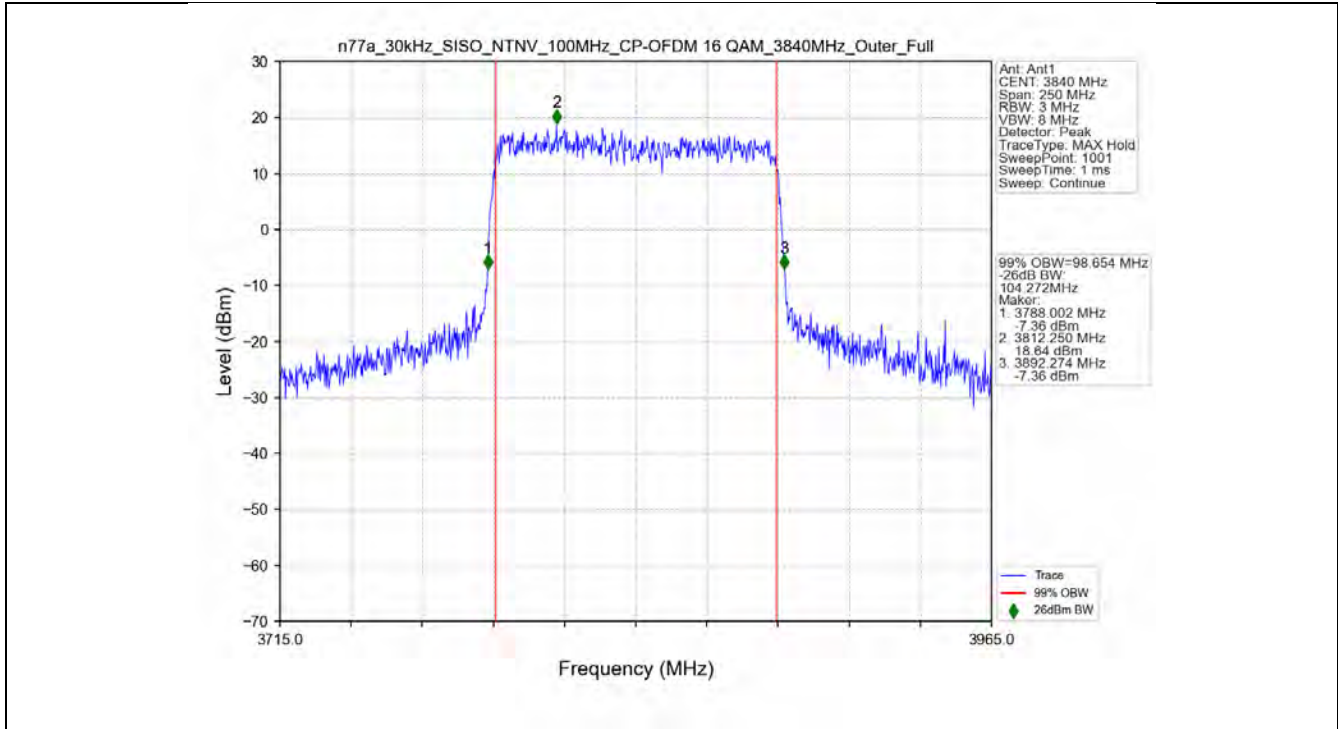


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Report No.: SZCR240100038409

Rev.: 01

Page: 209 of 973



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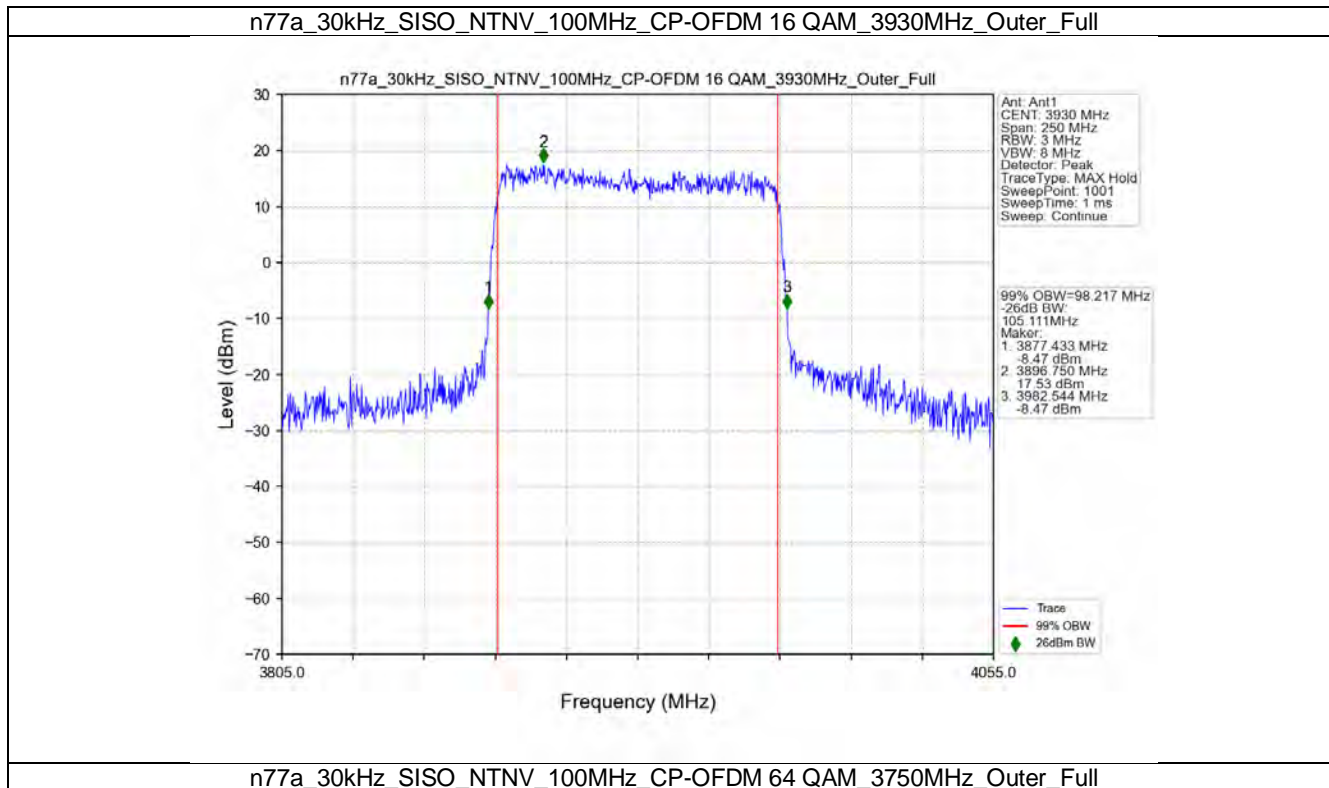
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Rev.: 01
Page: 210 of 973



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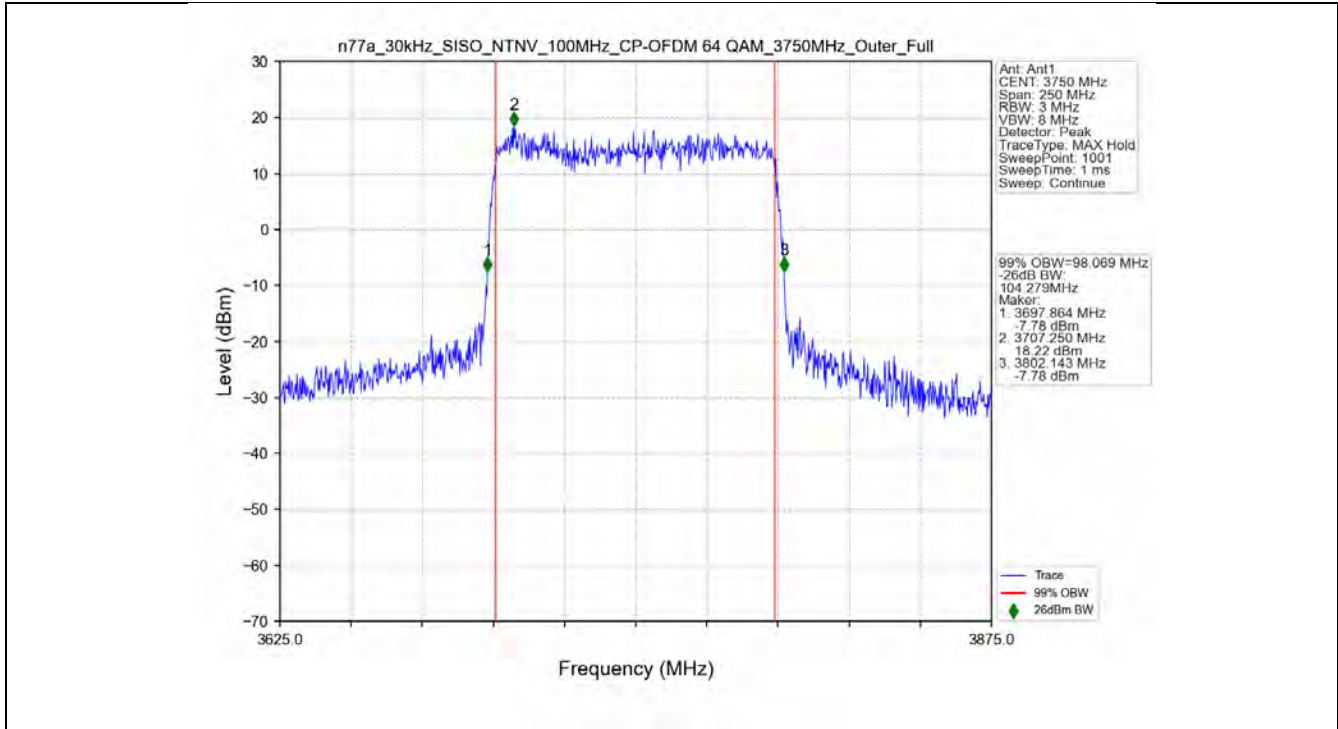


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Report No.: SZCR240100038409

Rev.: 01

Page: 211 of 973



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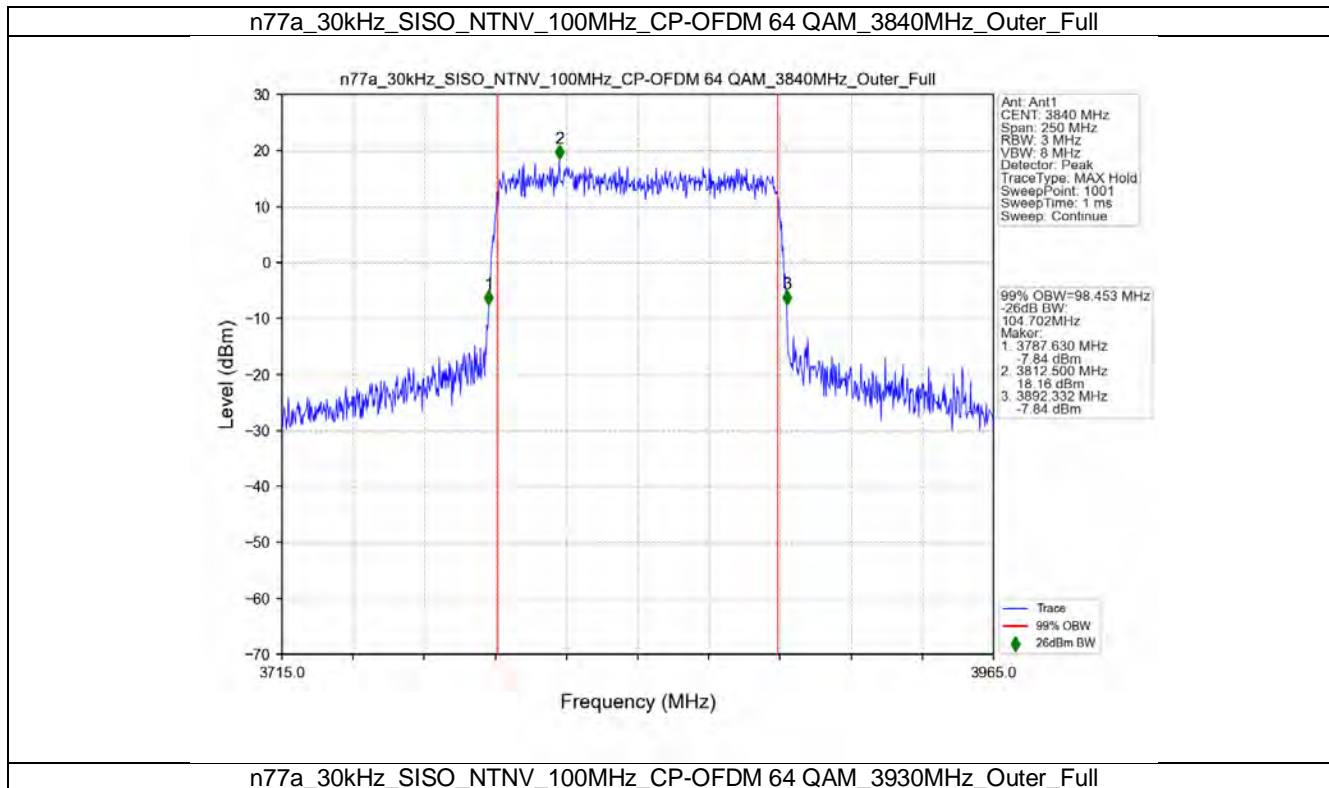
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Report No.: SZCR240100038409
Rev.: 01
Page: 212 of 973



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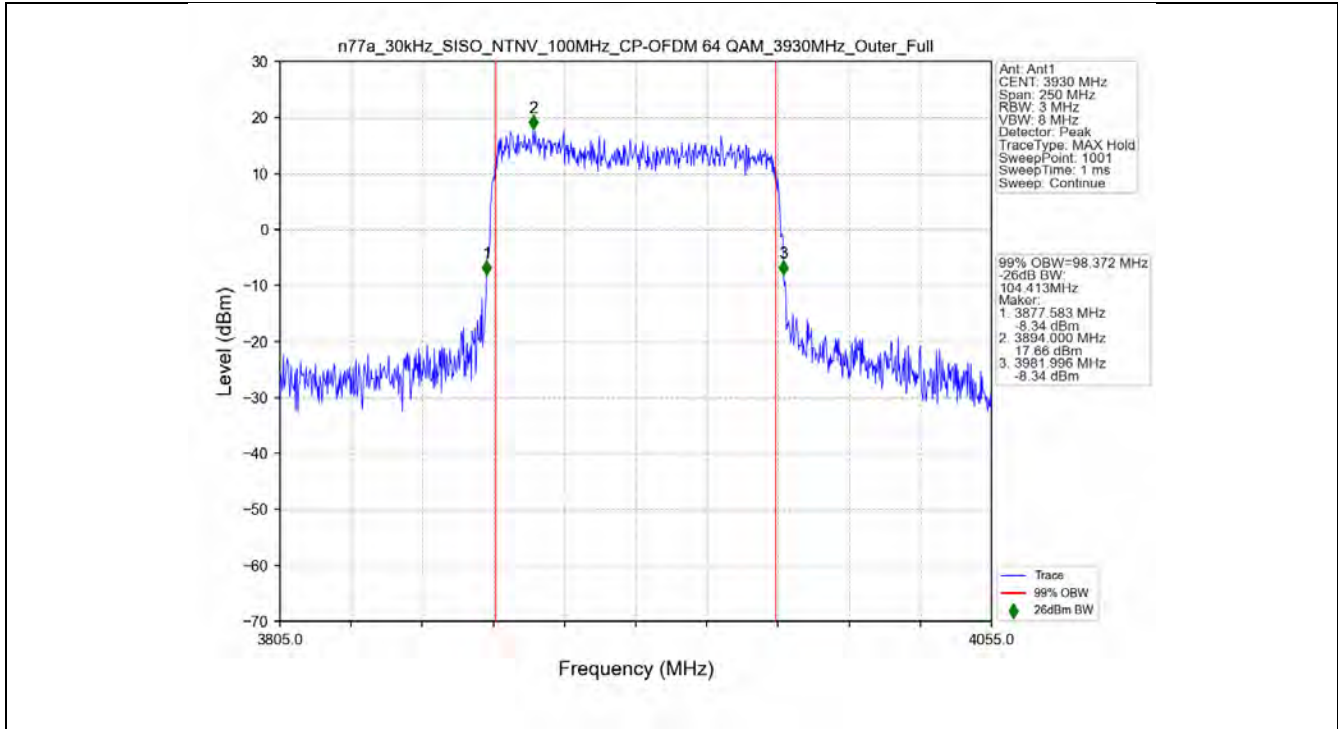


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Report No.: SZCR240100038409

Rev.: 01

Page: 213 of 973



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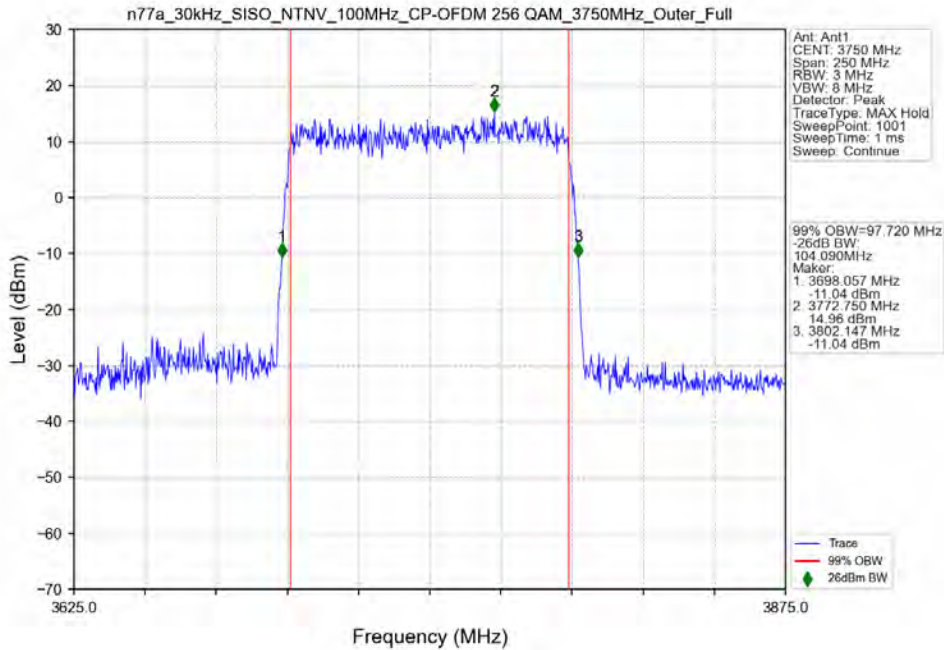
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Report No.: SZCR240100038409

Rev.: 01

Page: 214 of 973

n77a_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full



n77a_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_3840MHz_Outer_Full



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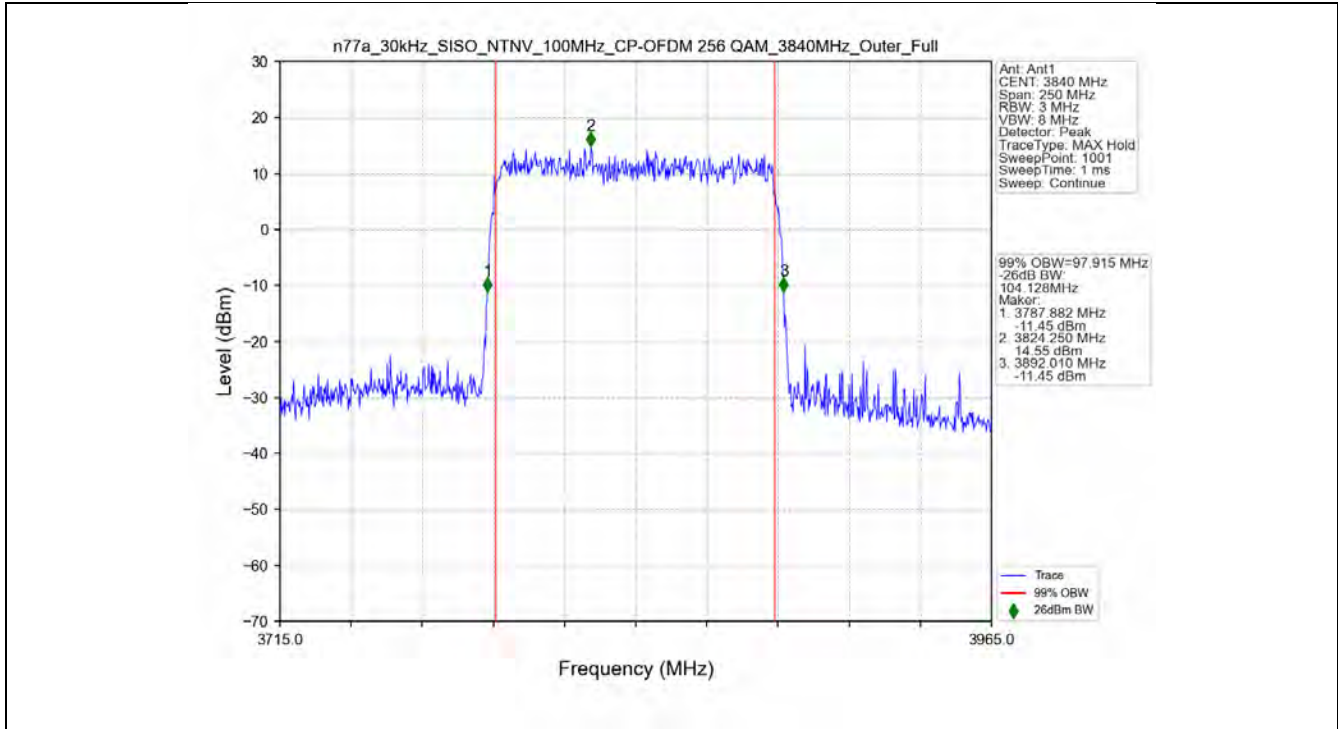


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Rev.: 01

Page: 215 of 973



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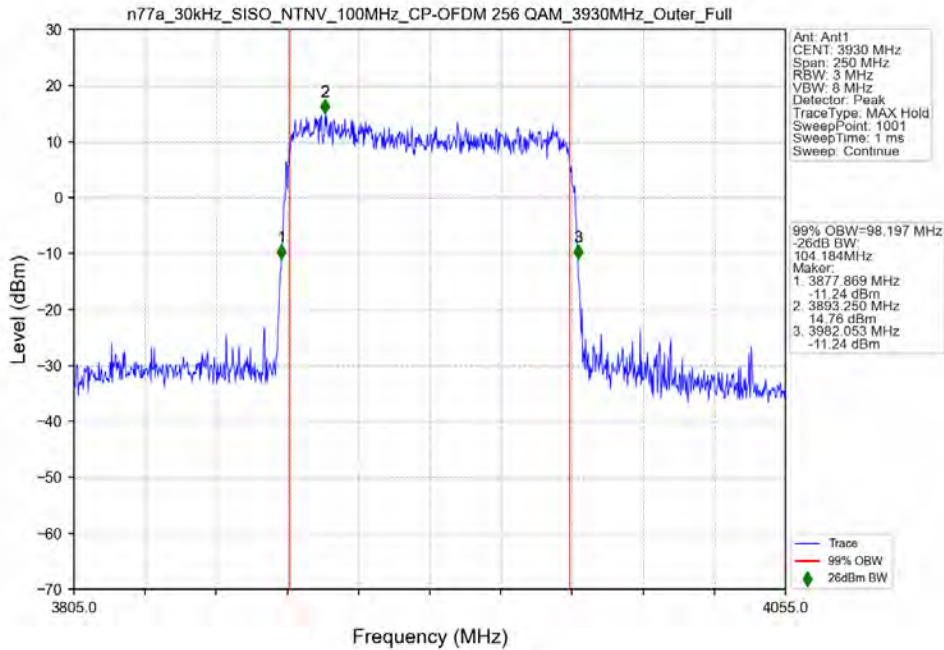
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Report No.: SZCR240100038409

Rev.: 01

Page: 216 of 973

n77a_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_3930MHz_Outer_Full



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Report No.: SZCR240100038409
Rev.: 01
Page: 217 of 973

4. Peak-Average Ratio

4.1 30k_SISO_20MHz_NTNV

4.1.1 Test Result

5G NR n77a 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	3710.01	Outer_Full	7.79	/	/	<=13	Pass
	3840	Outer_Full	7.90	/	/	<=13	Pass
	3969.99	Outer_Full	7.67	/	/	<=13	Pass
DFT-s-OFDM QPSK	3710.01	Outer_Full	9.05	/	/	<=13	Pass
	3840	Outer_Full	8.59	/	/	<=13	Pass
	3969.99	Outer_Full	8.96	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3710.01	Outer_Full	10.04	/	/	<=13	Pass
	3840	Outer_Full	9.38	/	/	<=13	Pass
	3969.99	Outer_Full	9.30	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3710.01	Outer_Full	9.83	/	/	<=13	Pass
	3840	Outer_Full	9.98	/	/	<=13	Pass
	3969.99	Outer_Full	9.69	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3710.01	Outer_Full	9.92	/	/	<=13	Pass
	3840	Outer_Full	9.89	/	/	<=13	Pass
	3969.99	Outer_Full	10.12	/	/	<=13	Pass
CP-OFDM QPSK	3710.01	Outer_Full	10.61	/	/	<=13	Pass
	3840	Outer_Full	10.42	/	/	<=13	Pass
	3969.99	Outer_Full	10.65	/	/	<=13	Pass
CP-OFDM 16 QAM	3710.01	Outer_Full	10.46	/	/	<=13	Pass
	3840	Outer_Full	8.39	/	/	<=13	Pass
	3969.99	Outer_Full	10.61	/	/	<=13	Pass
CP-OFDM 64 QAM	3710.01	Outer_Full	11.26	/	/	<=13	Pass
	3840	Outer_Full	11.20	/	/	<=13	Pass
	3969.99	Outer_Full	11.69	/	/	<=13	Pass
CP-OFDM 256 QAM	3710.01	Outer_Full	12.02	/	/	<=13	Pass
	3840	Outer_Full	11.93	/	/	<=13	Pass
	3969.99	Outer_Full	11.16	/	/	<=13	Pass



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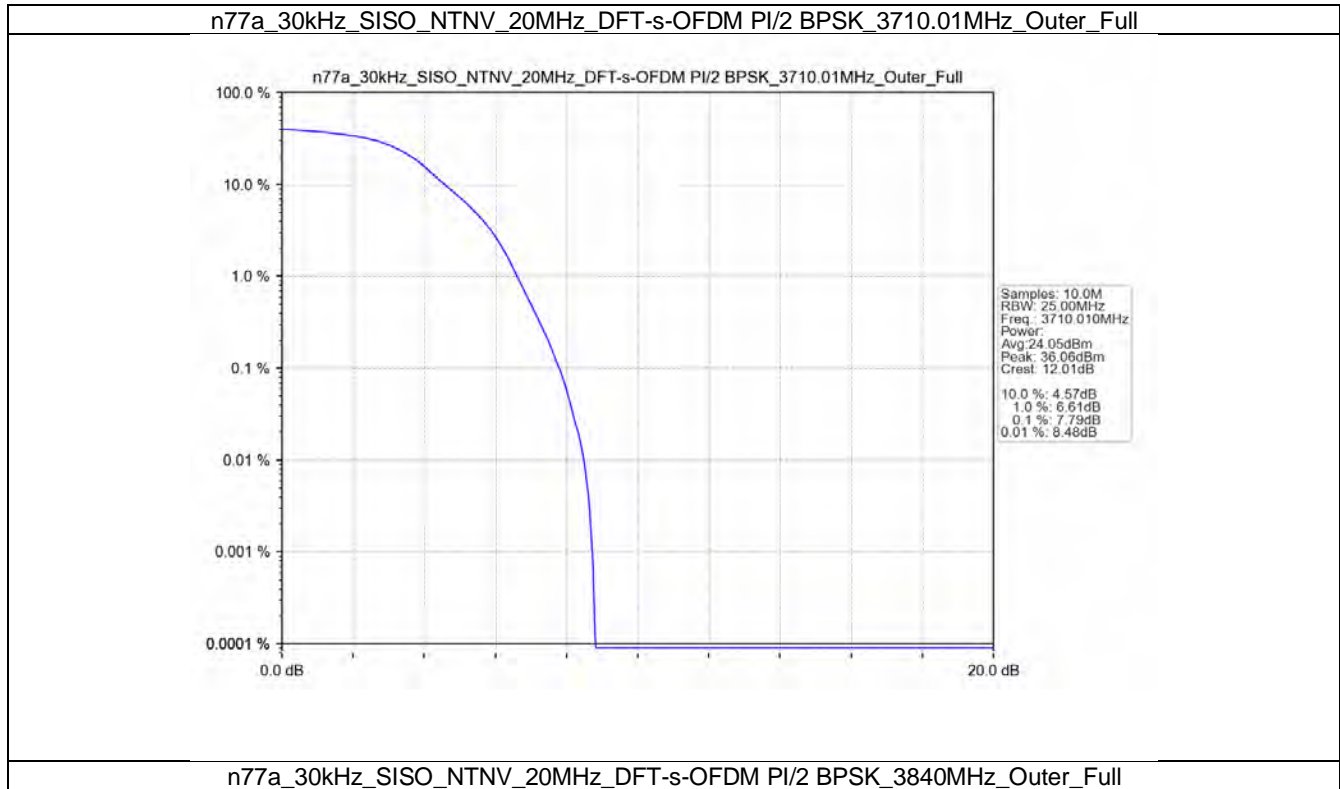
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Rev.: 01

Page: 218 of 973

4.1.2 Test Graph



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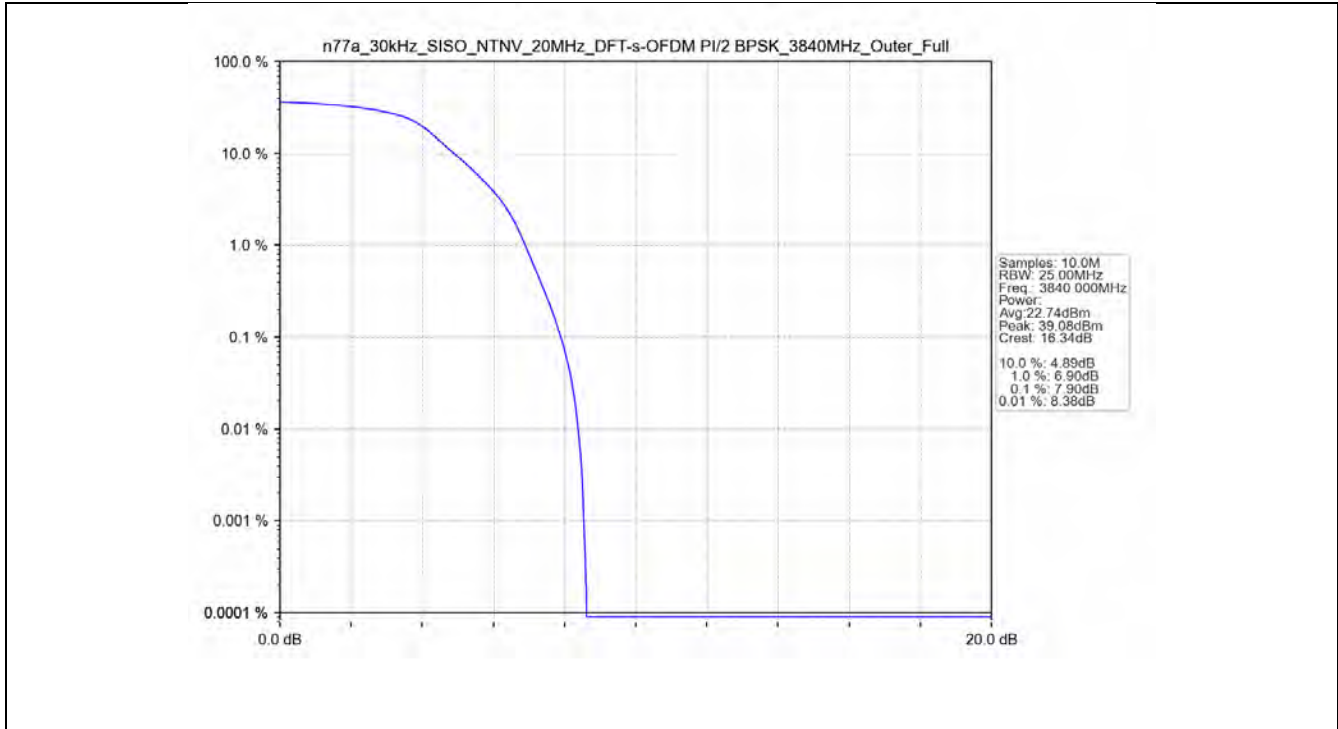


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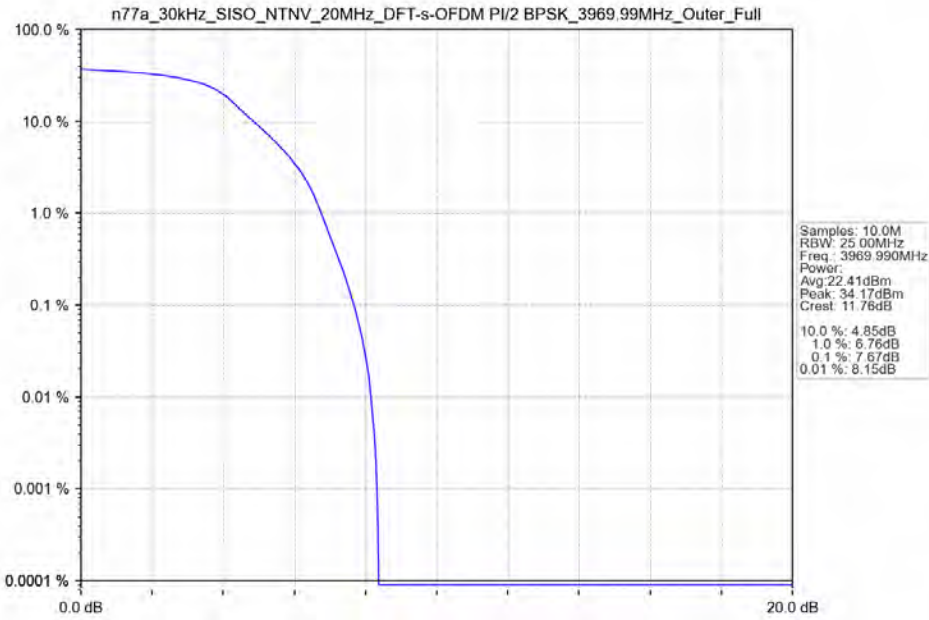
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Report No.: SZCR240100038409

Rev.: 01

Page: 220 of 973

n77a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3969.99MHz_Outer_Full



n77a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3710.01MHz_Outer_Full



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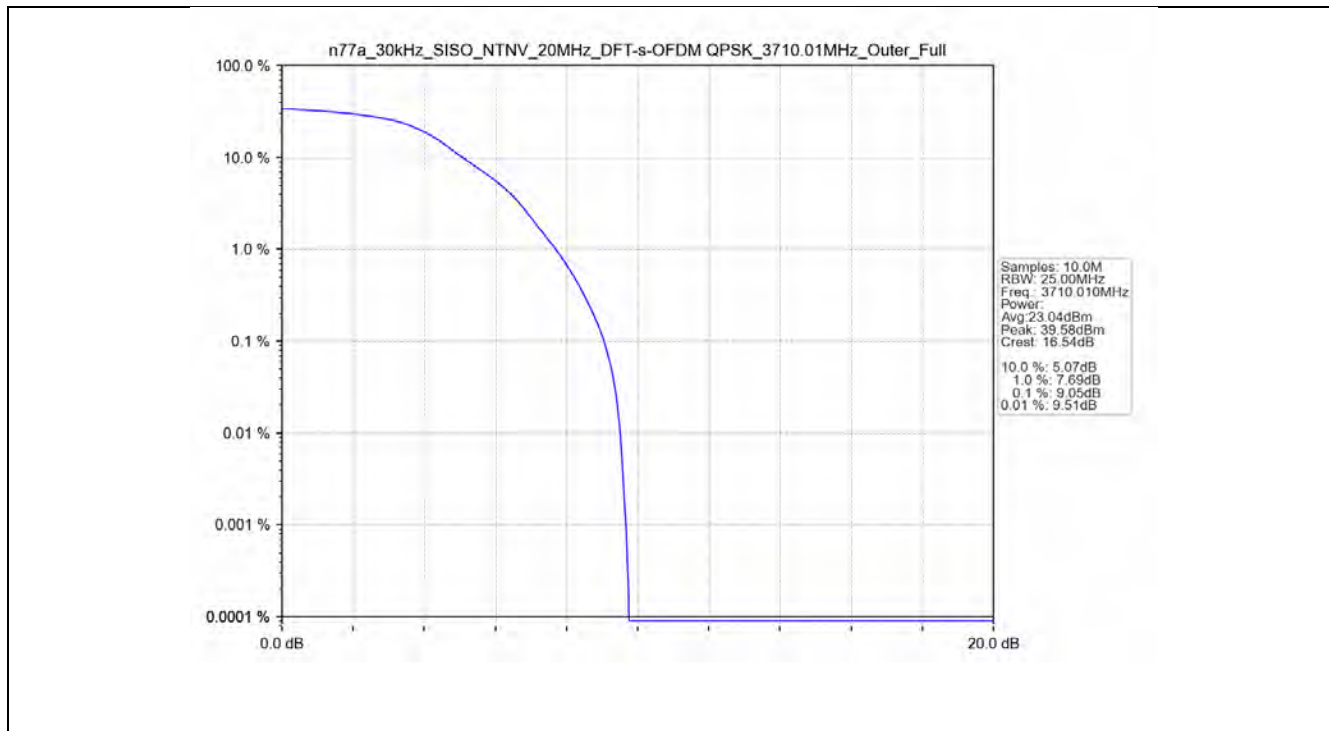
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Rev.: 01
Page: 221 of 973



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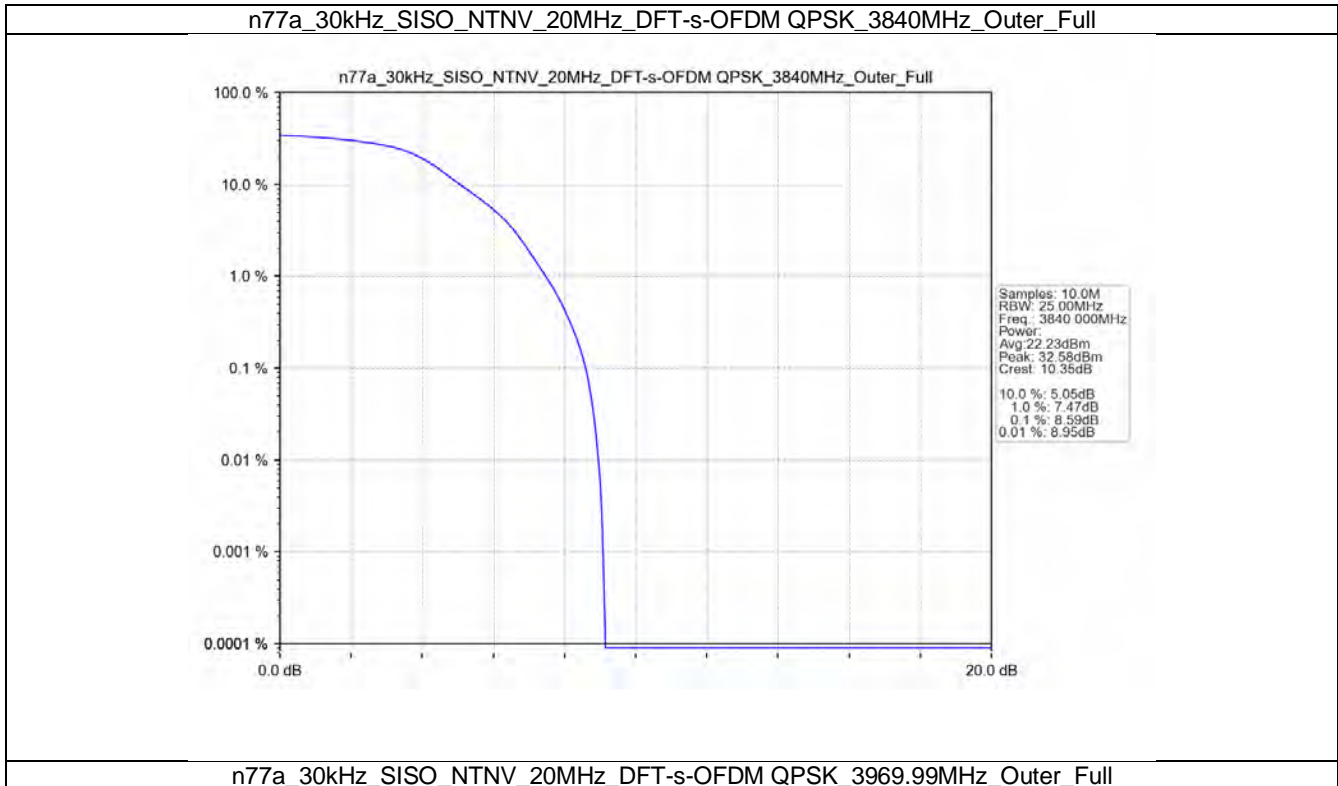


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Rev.: 01

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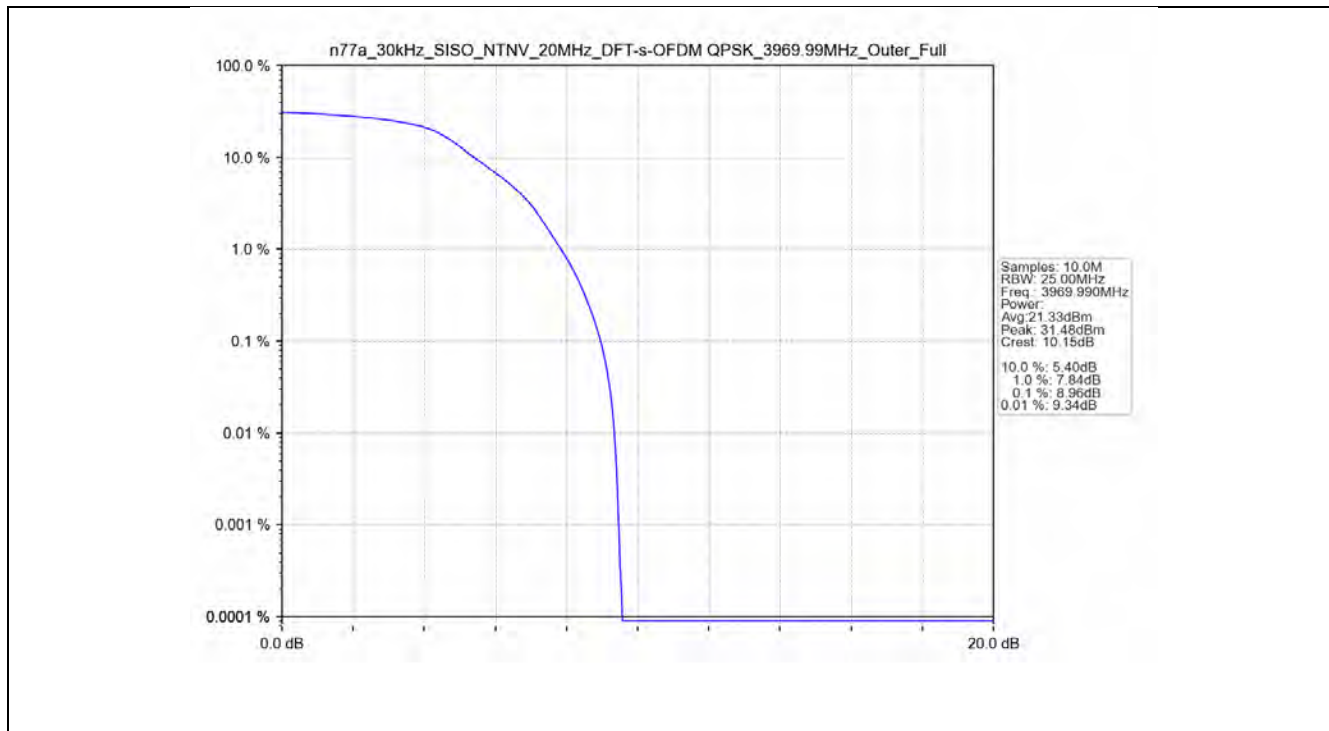
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 Page: 223 of 973



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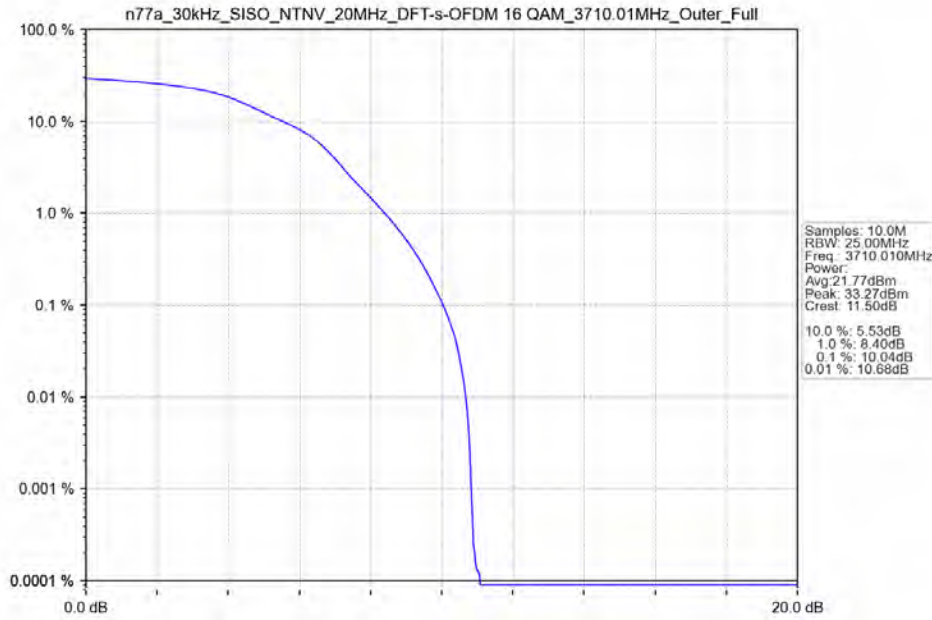
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Report No.: SZCR240100038409

Rev.: 01

Page: 224 of 973

n77a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3710.01MHz_Outer_Full



n77a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3840MHz_Outer_Full



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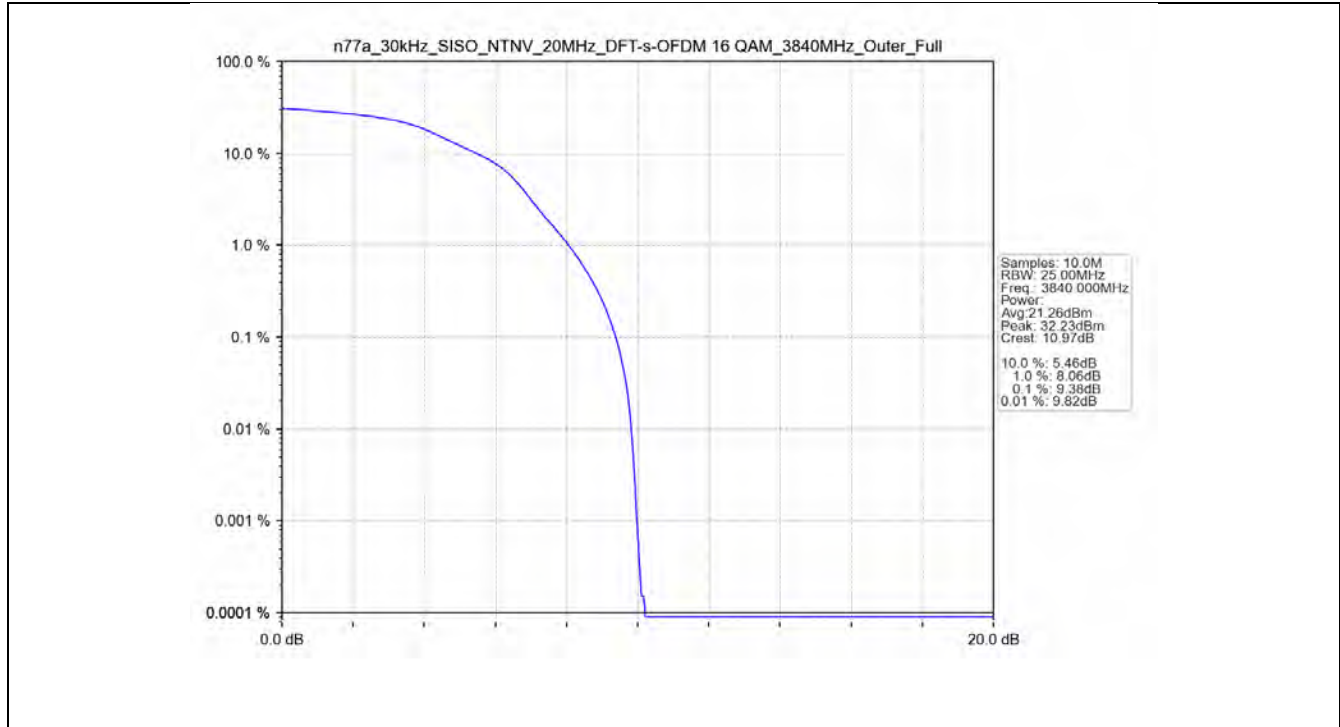


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Report No.: SZCR240100038409

Rev.: 01

Page: 225 of 973



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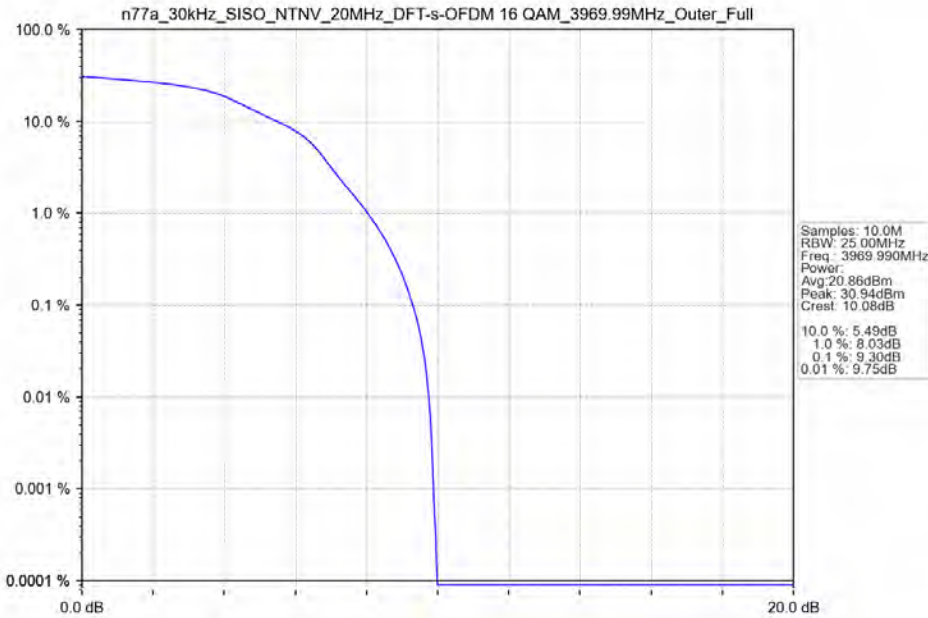
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Report No.: SZCR240100038409

Rev.: 01

Page: 226 of 973

n77a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3969.99MHz_Outer_Full



n77a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3710.01MHz_Outer_Full



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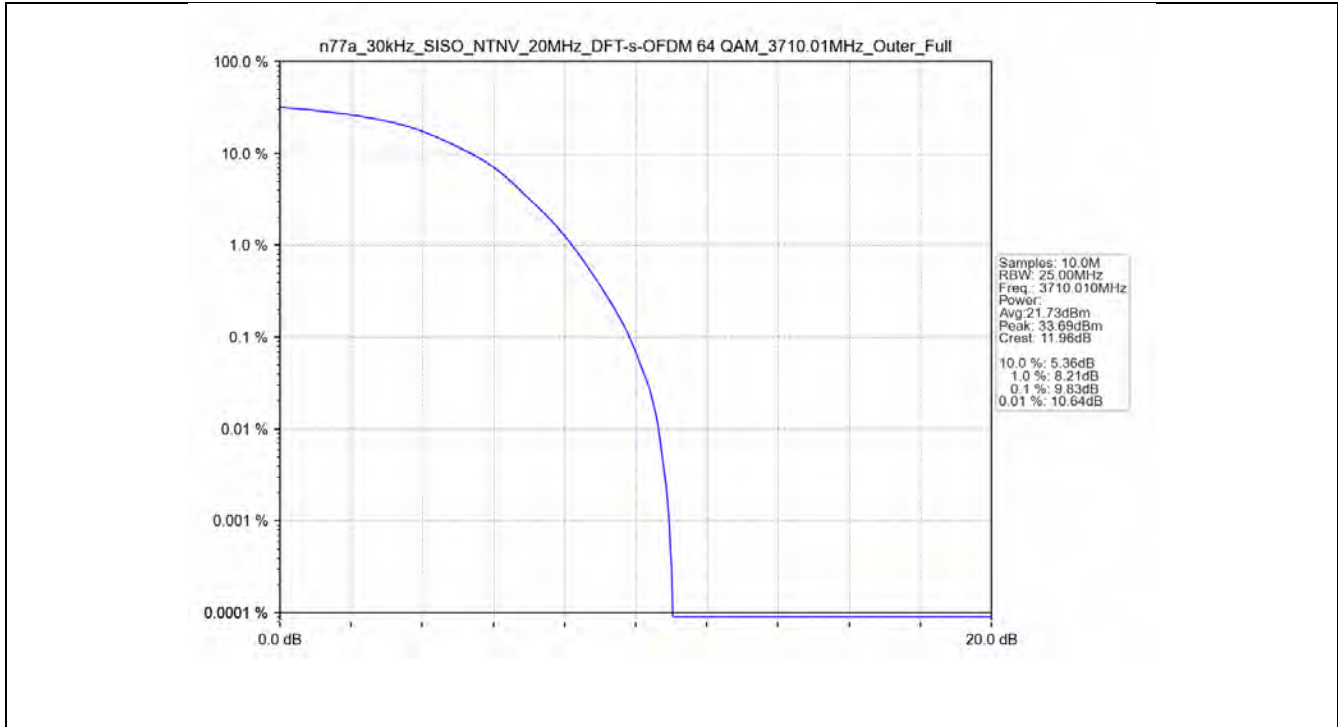


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Report No.: SZCR240100038409

Rev.: 01

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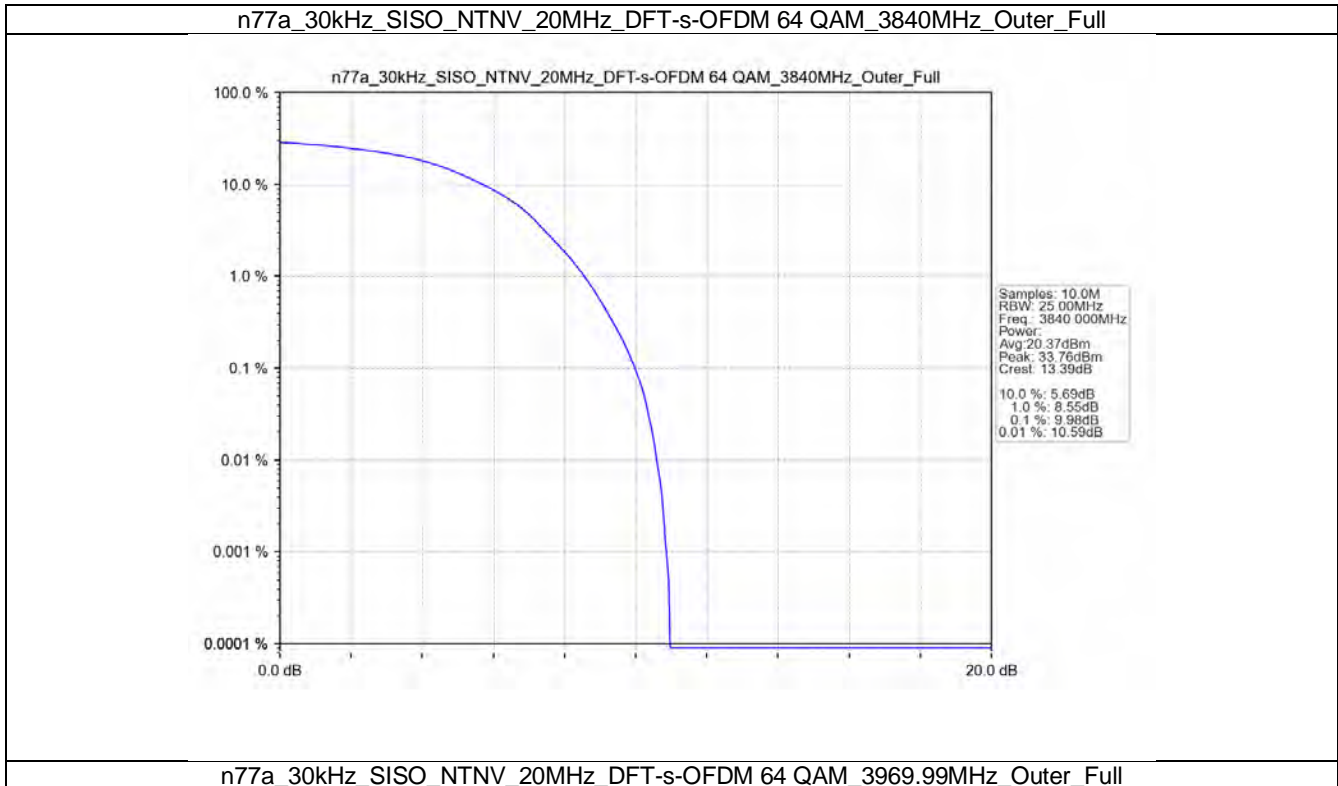


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Rev.: 01

Page: 228 of 973



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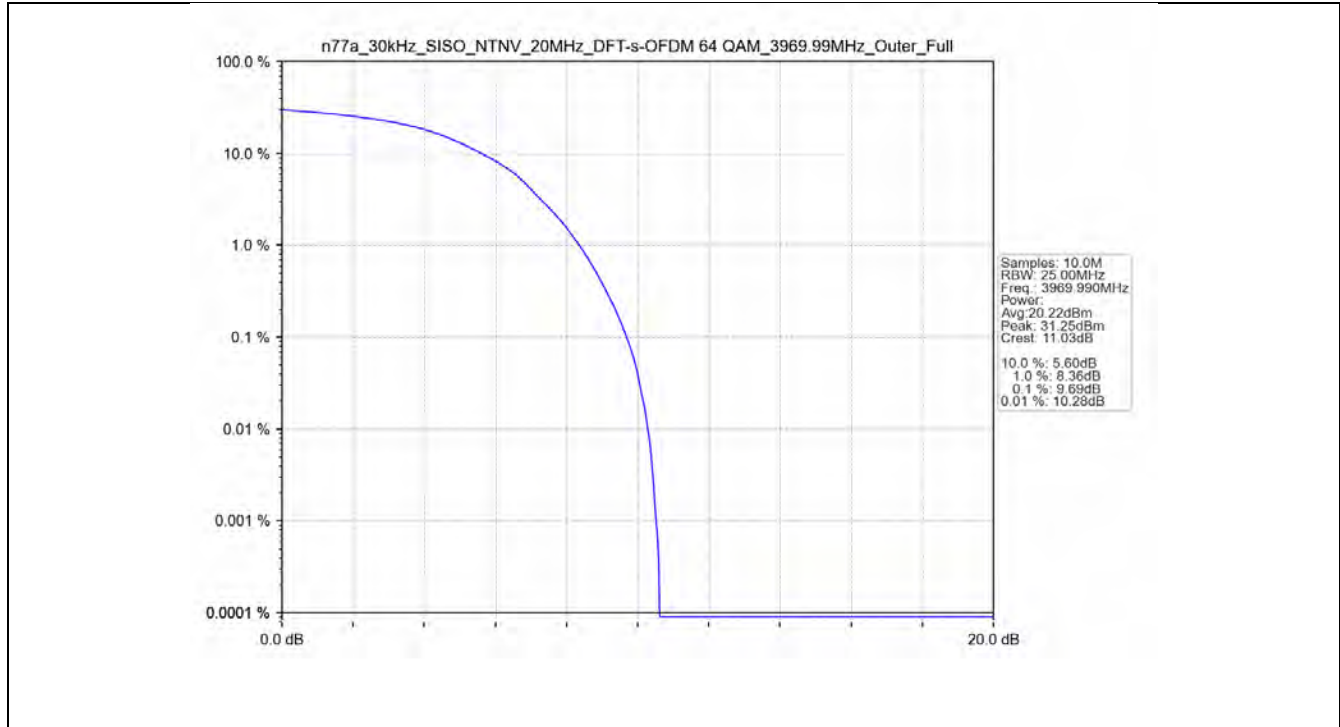


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Rev.: 01

Page: 229 of 973



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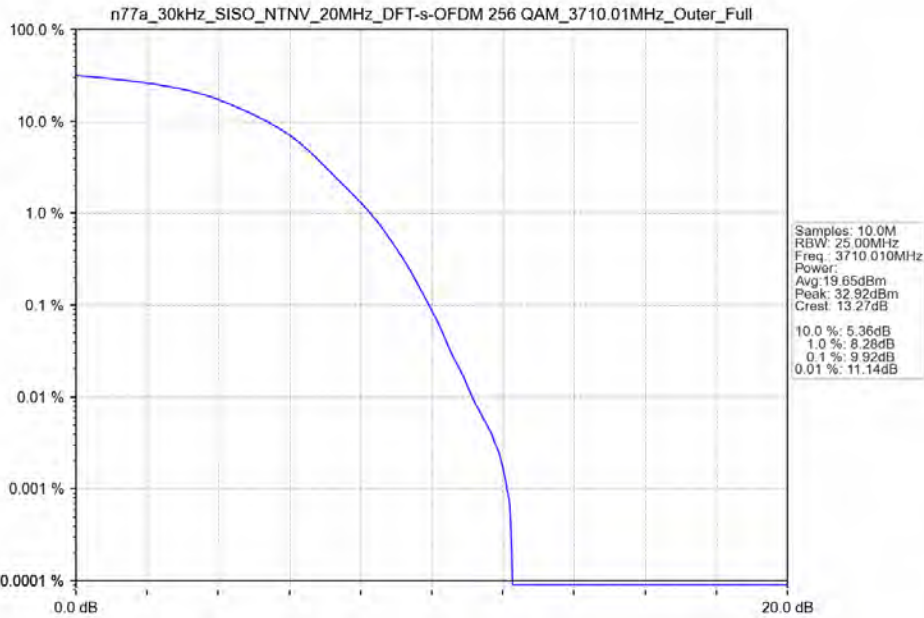
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Report No.: SZCR240100038409

Rev.: 01

Page: 230 of 973

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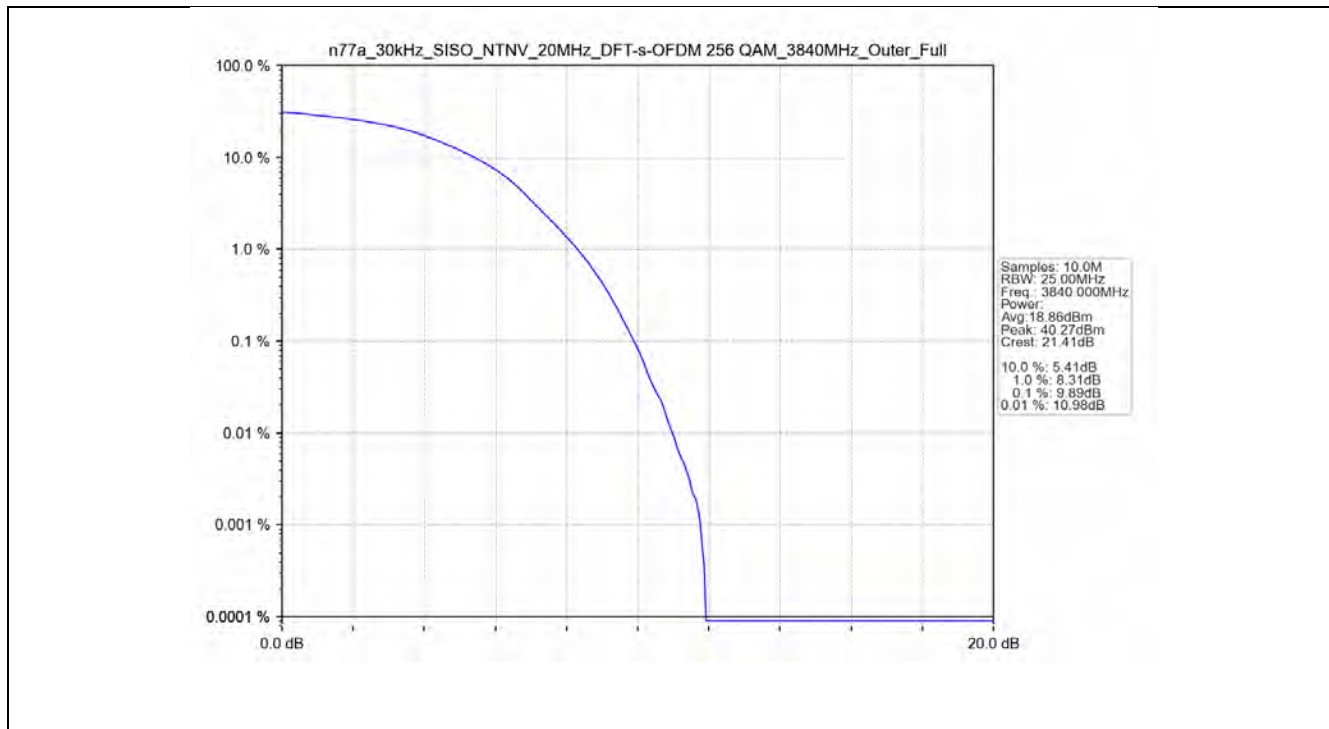
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Report No.: SZCR240100038409
Rev.: 01
Page: 231 of 973



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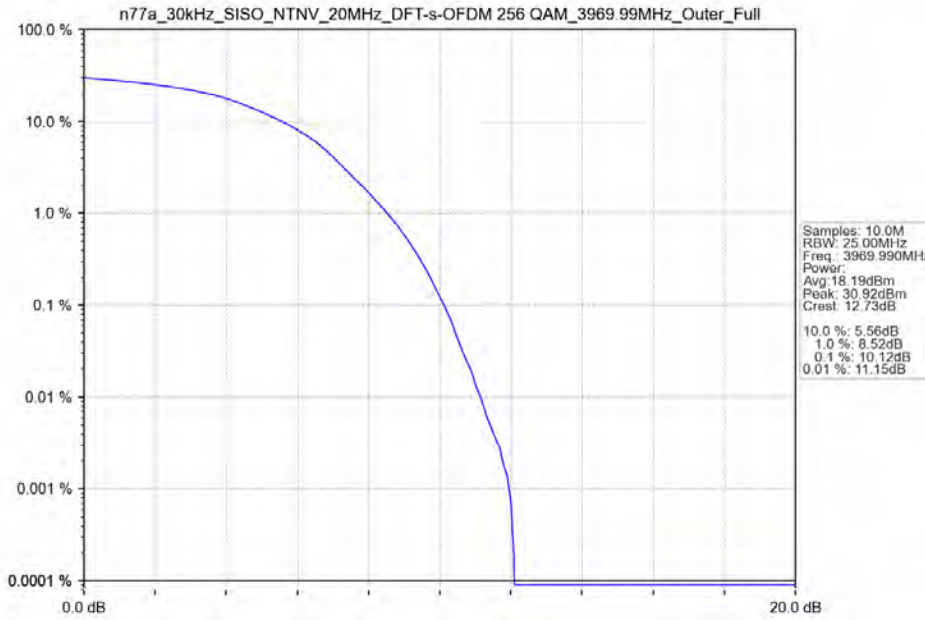
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Report No.: SZCR240100038409

Rev.: 01

Page: 232 of 973

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n77a_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3710.01MHz_Outer_Full



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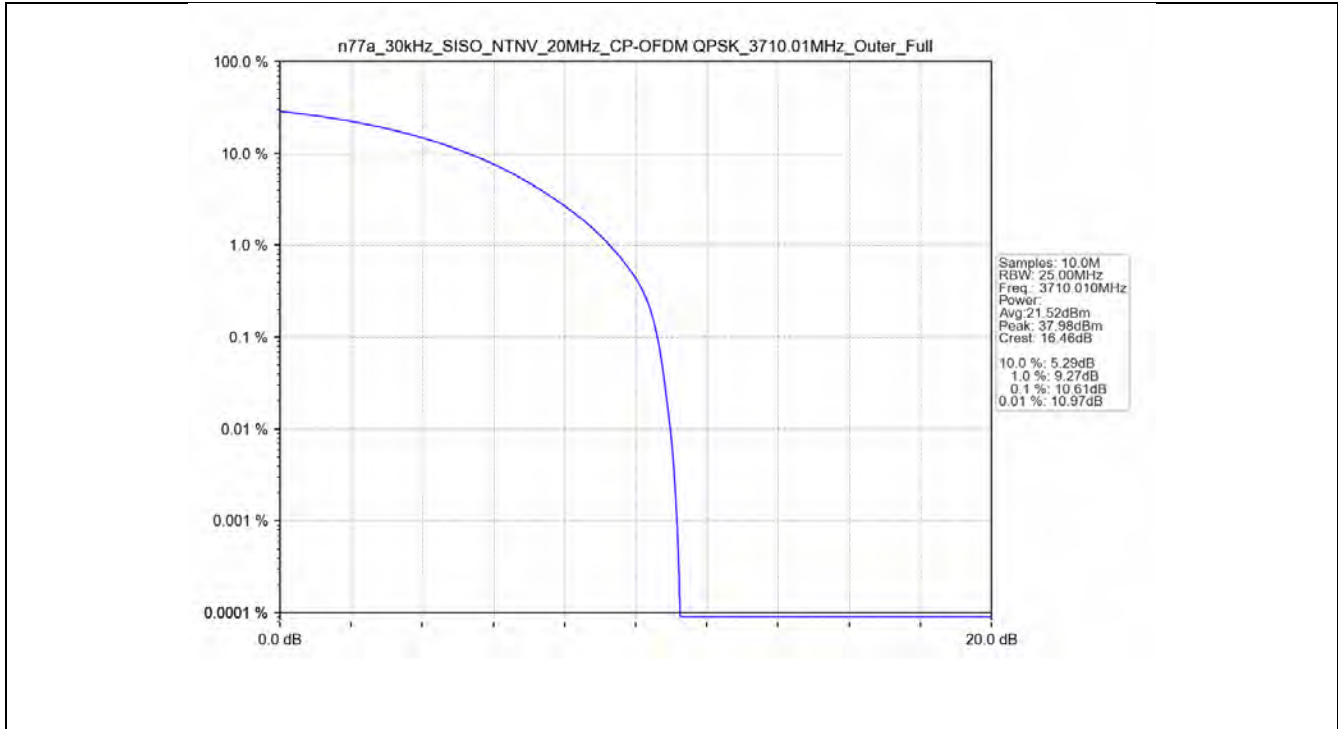


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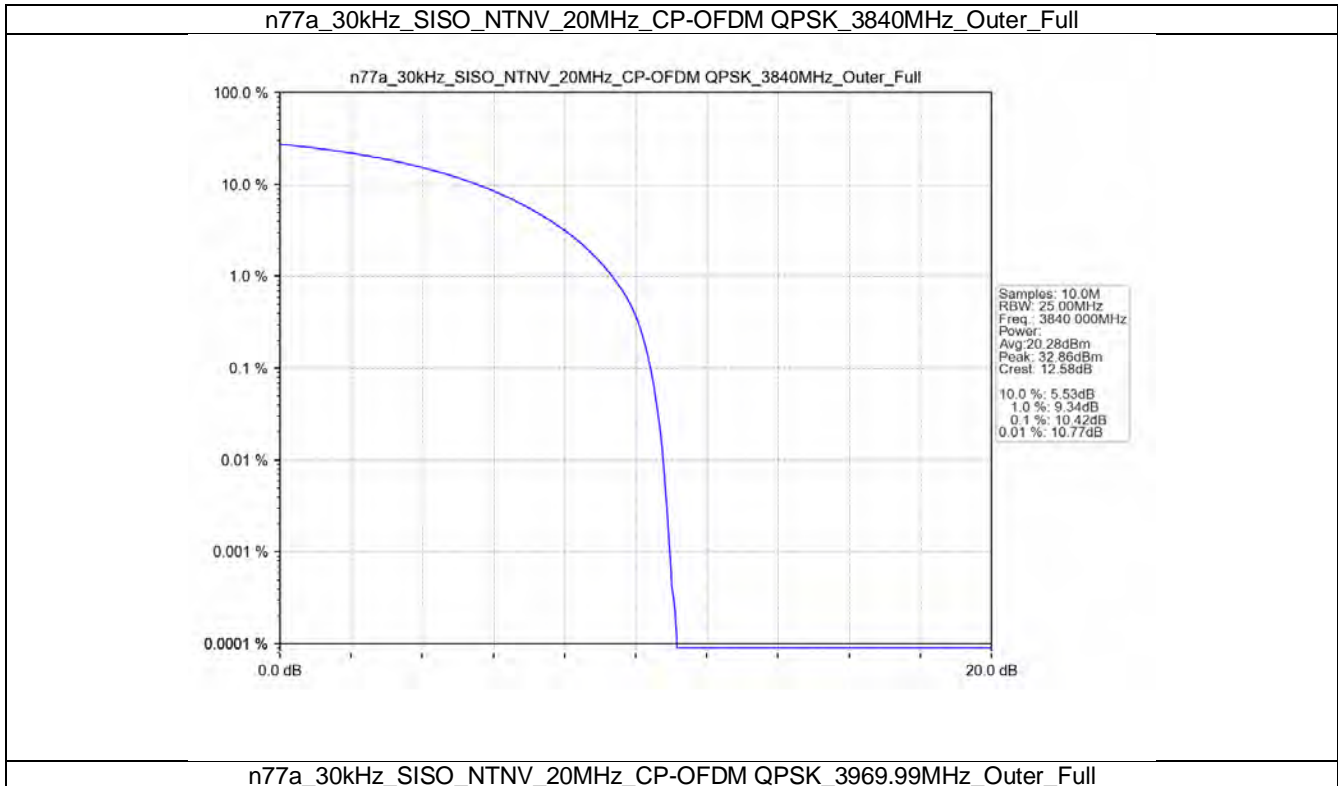


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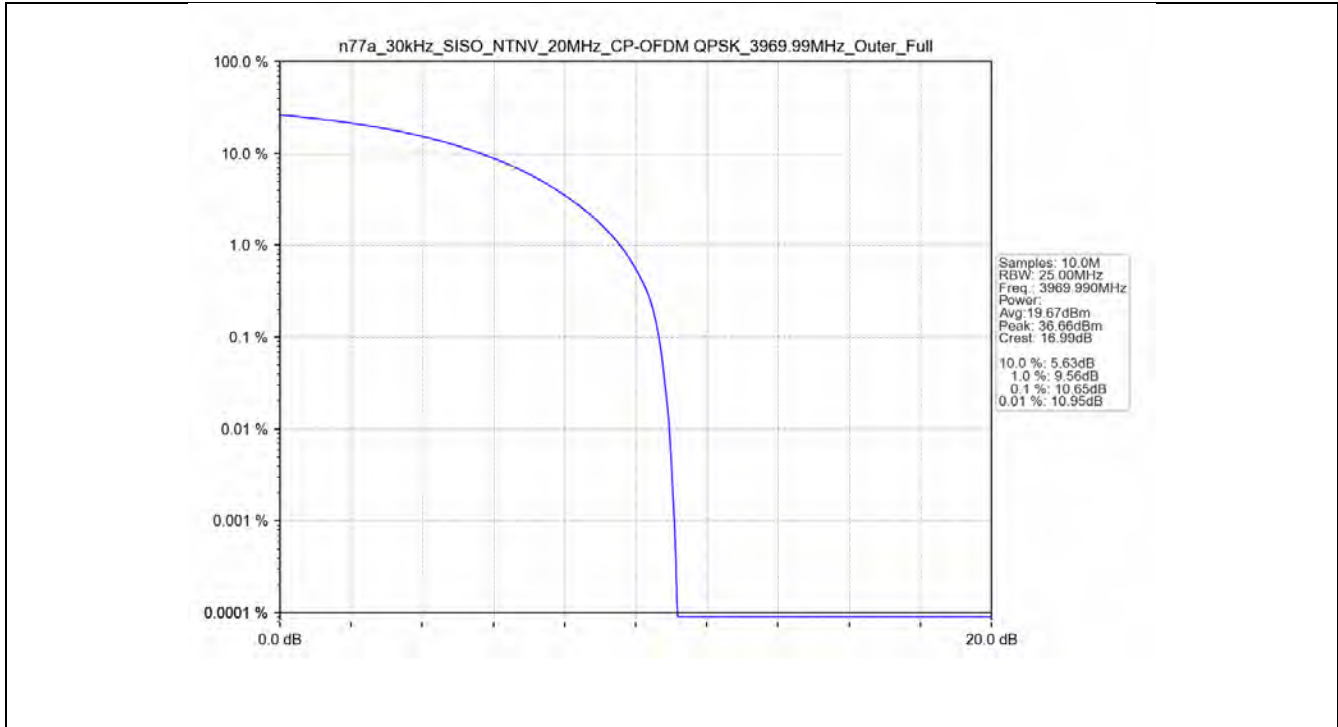


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Rev.: 01

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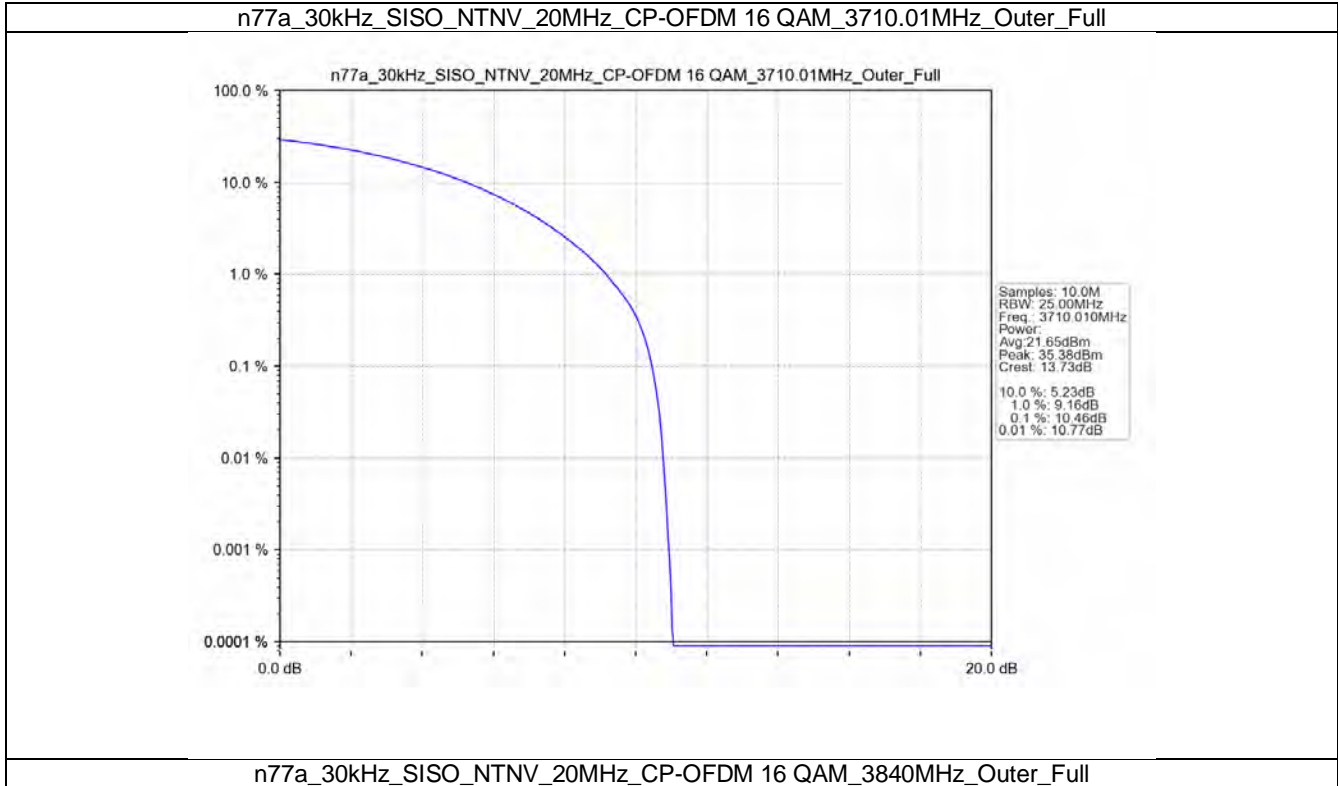


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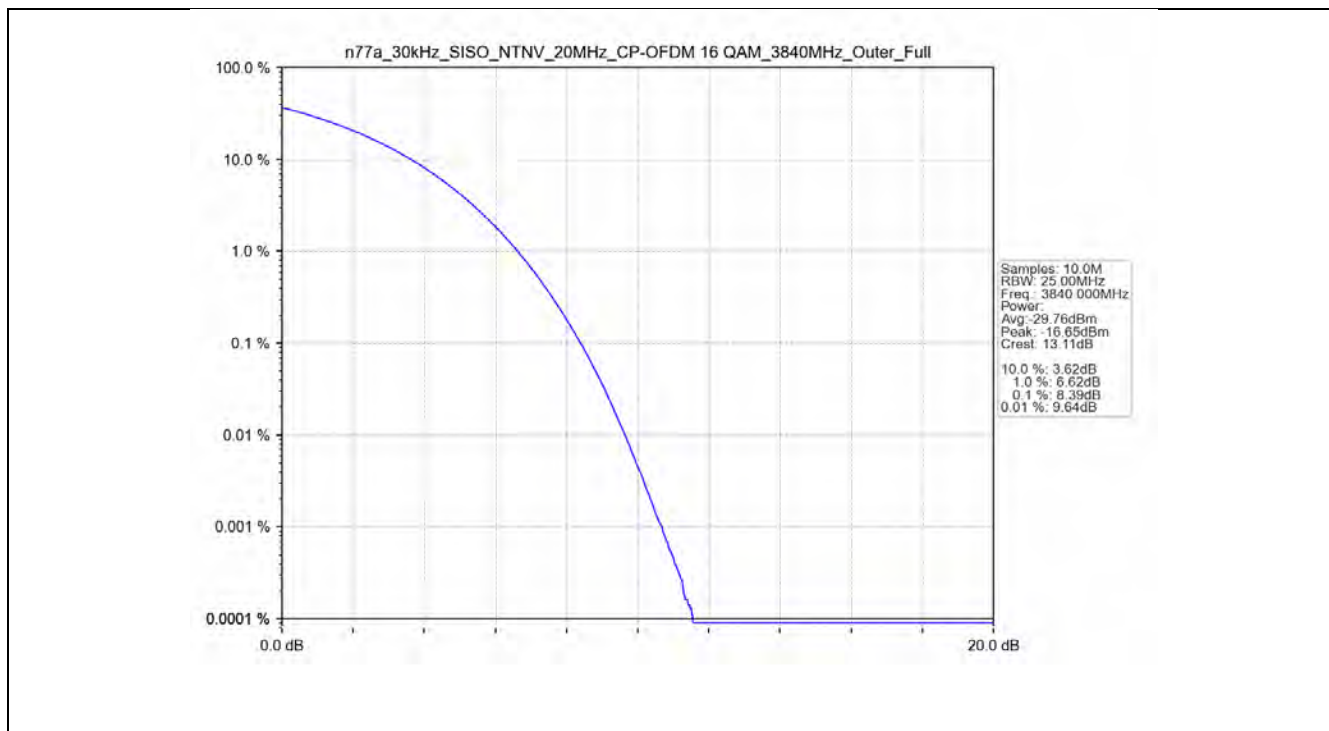
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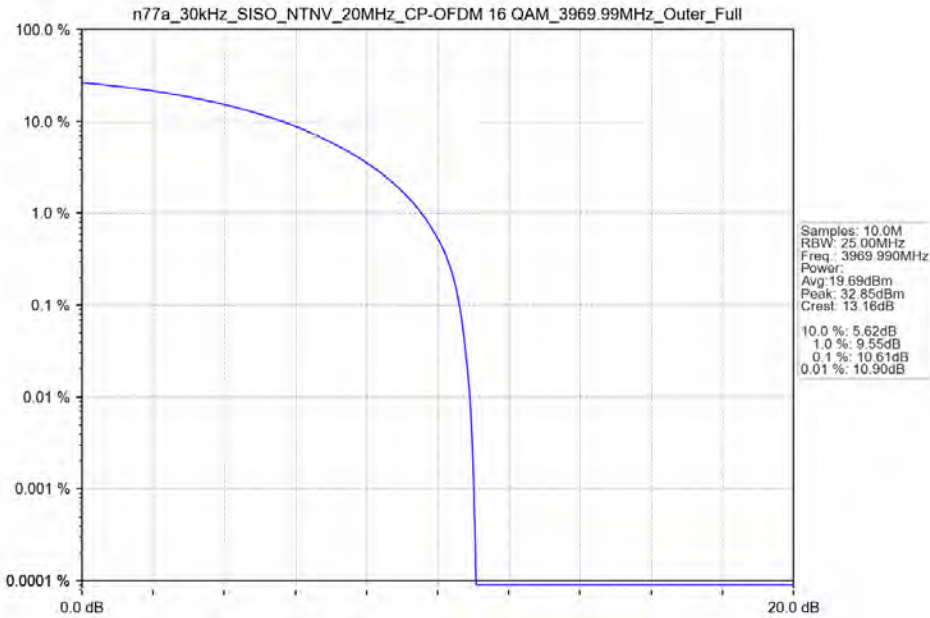
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Report No.: SZCR240100038409

Rev.: 01

Page: 238 of 973

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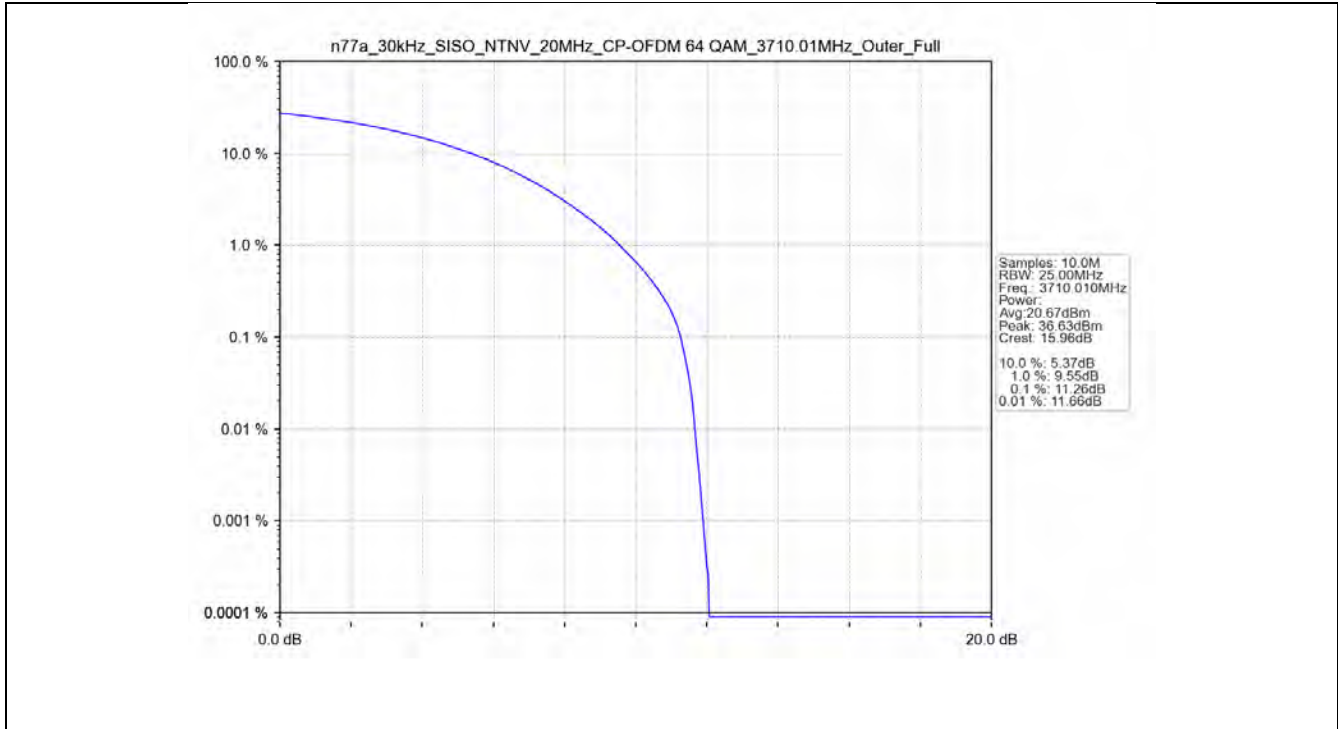


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Report No.: SZCR240100038409

Rev.: 01

Page: 239 of 973



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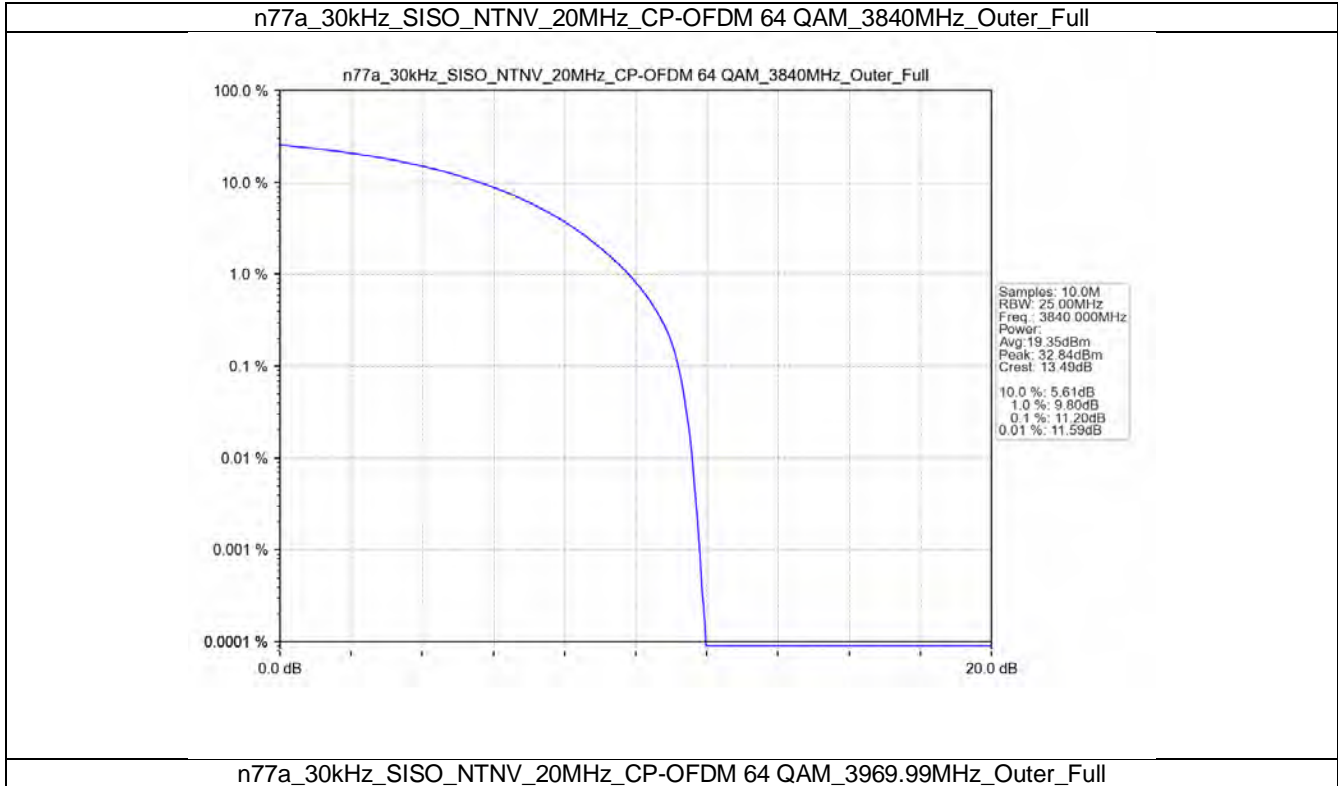


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Report No.: SZCR240100038409

Rev.: 01

Page: 240 of 973



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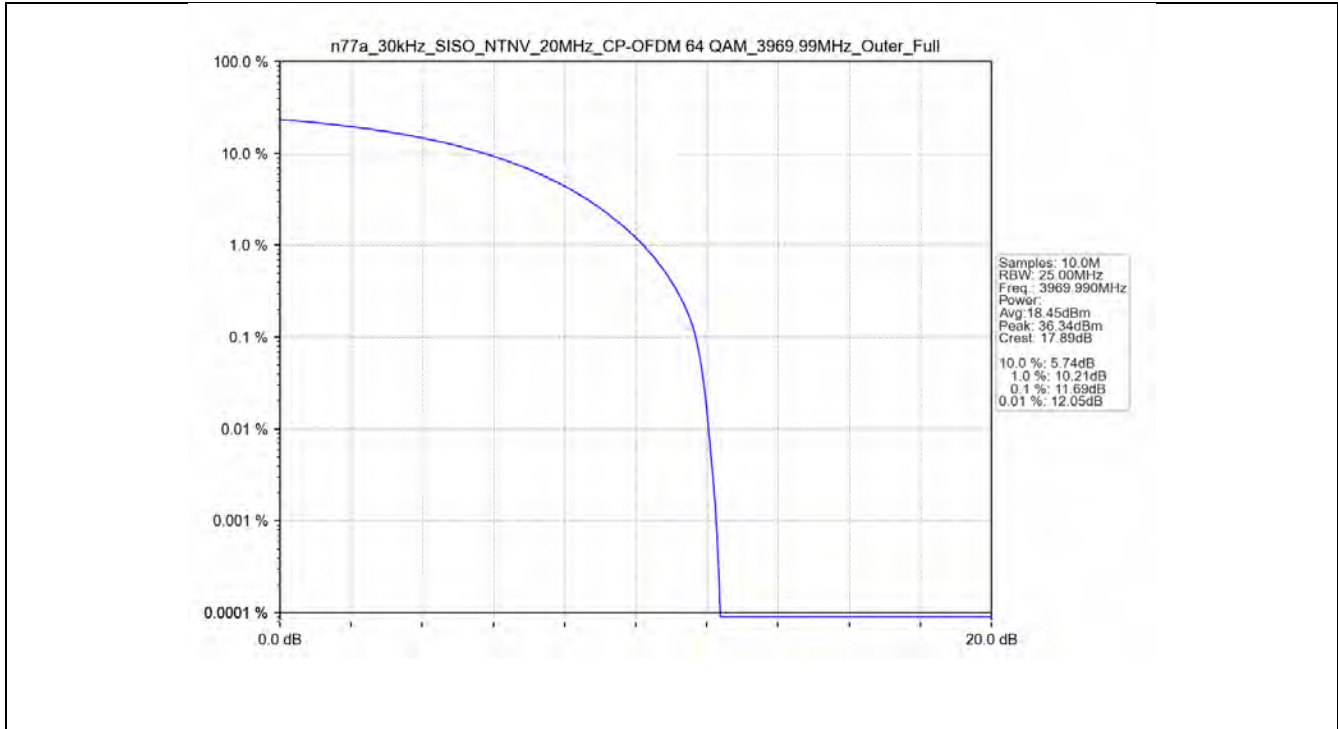


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Report No.: SZCR240100038409

Rev.: 01

Page: 241 of 973



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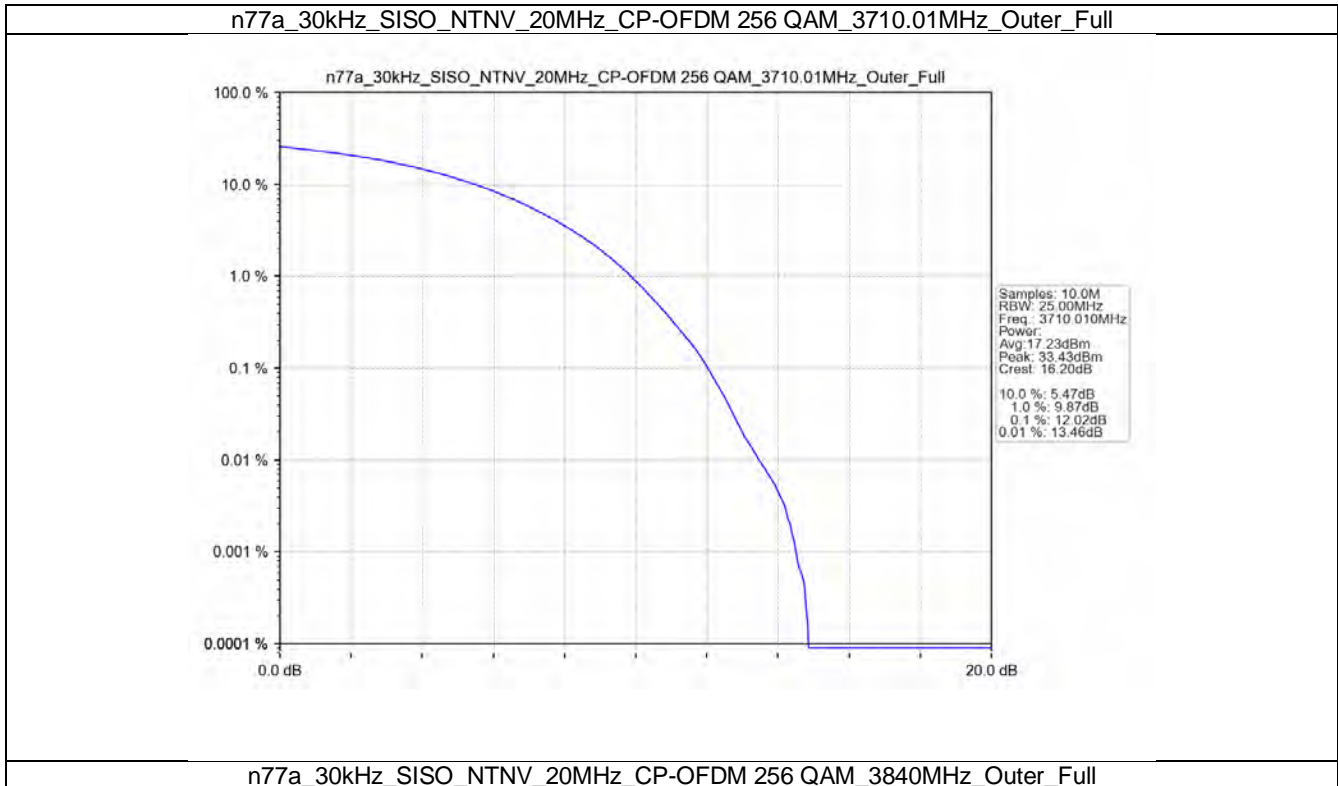


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Report No.: SZCR240100038409

Rev.: 01

Page: 242 of 973



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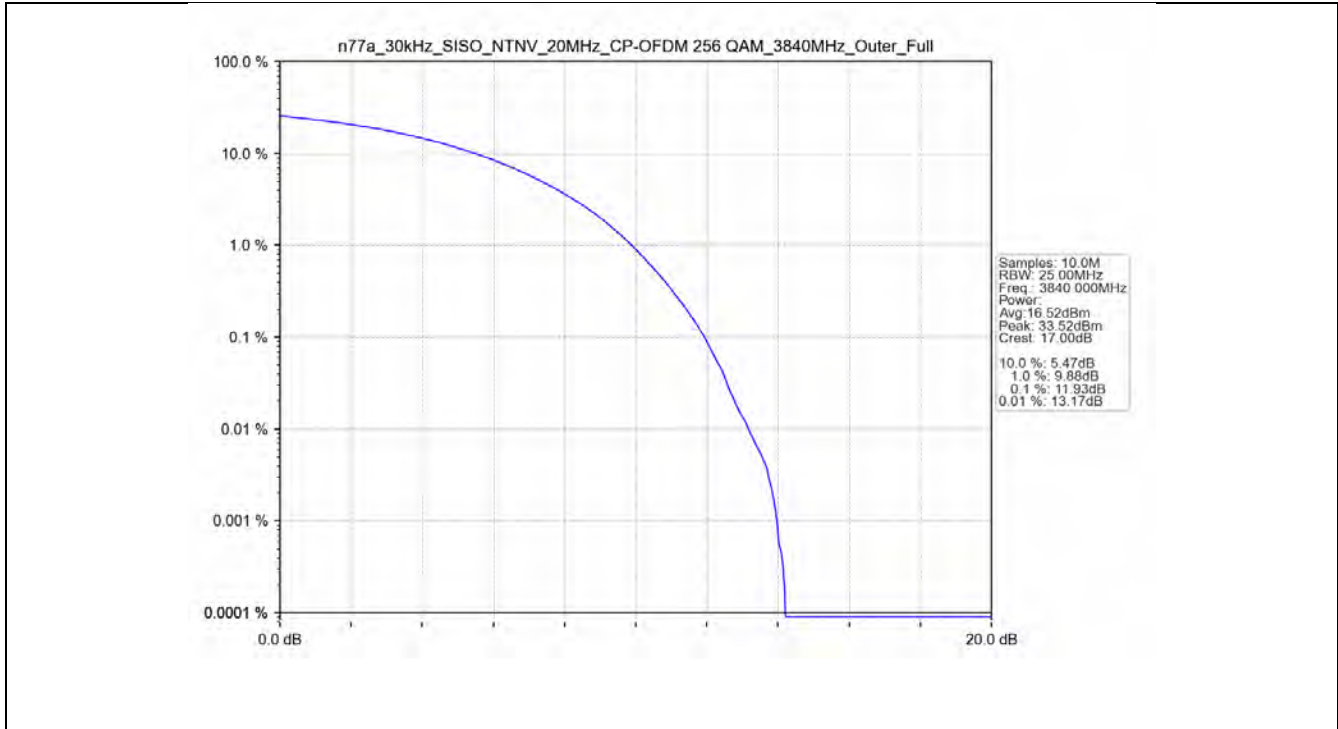


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Report No.: SZCR240100038409

Rev.: 01

Page: 243 of 973



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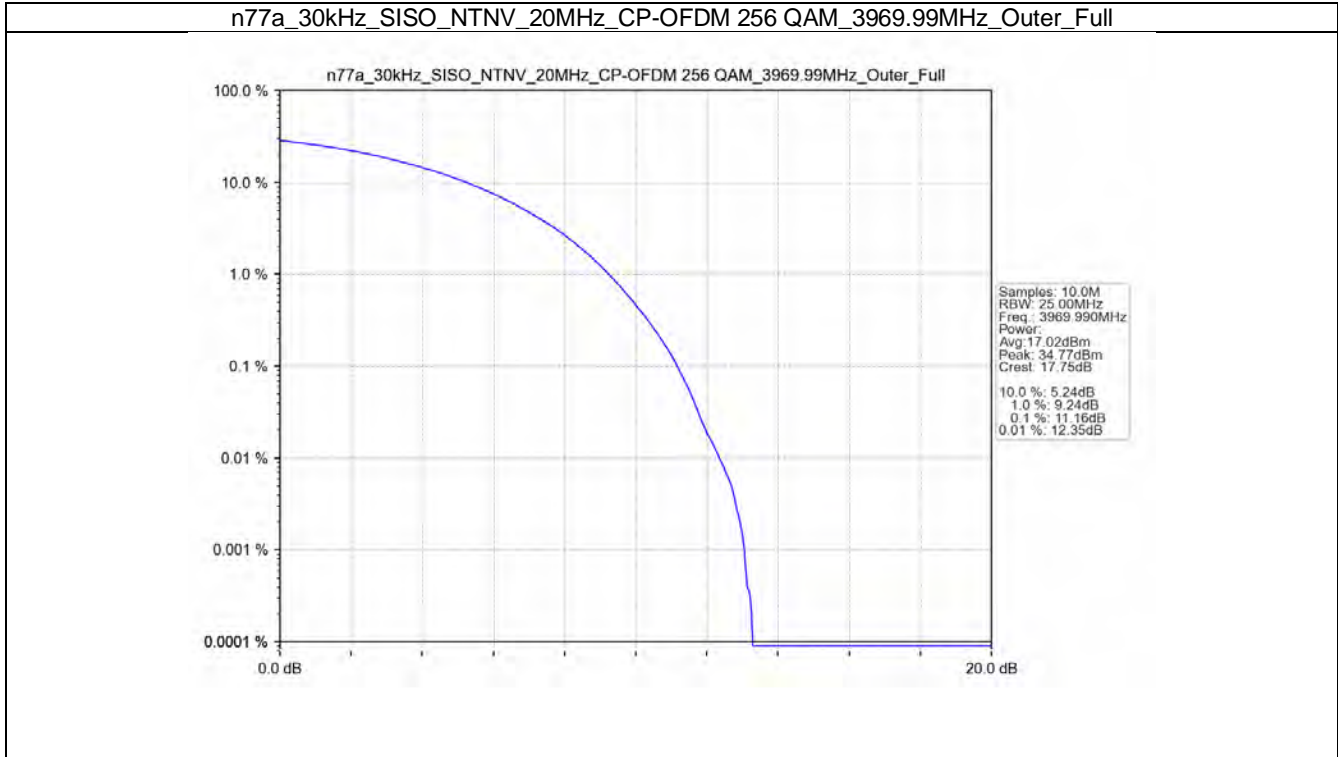


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Report No.: SZCR240100038409

Rev.: 01

Page: 244 of 973



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Report No.: SZCR240100038409

Rev.: 01

Page: 245 of 973

4.2 30k_SISO_30MHz_NTNV

4.2.1 Test Result

5G NR n77a SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3715.02	Outer_Full	9.84	/	/	<=13	Pass
	3840	Outer_Full	7.92	/	/	<=13	Pass
	3964.98	Outer_Full	8.15	/	/	<=13	Pass
DFT-s-OFDM QPSK	3715.02	Outer_Full	8.90	/	/	<=13	Pass
	3840	Outer_Full	9.61	/	/	<=13	Pass
	3964.98	Outer_Full	9.56	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3715.02	Outer_Full	10.43	/	/	<=13	Pass
	3840	Outer_Full	9.54	/	/	<=13	Pass
	3964.98	Outer_Full	9.11	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3715.02	Outer_Full	9.88	/	/	<=13	Pass
	3840	Outer_Full	11.10	/	/	<=13	Pass
	3964.98	Outer_Full	9.60	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3715.02	Outer_Full	9.77	/	/	<=13	Pass
	3840	Outer_Full	9.97	/	/	<=13	Pass
	3964.98	Outer_Full	10.34	/	/	<=13	Pass
CP-OFDM QPSK	3715.02	Outer_Full	11.02	/	/	<=13	Pass
	3840	Outer_Full	11.10	/	/	<=13	Pass
	3964.98	Outer_Full	10.86	/	/	<=13	Pass
CP-OFDM 16 QAM	3715.02	Outer_Full	12.04	/	/	<=13	Pass
	3840	Outer_Full	11.15	/	/	<=13	Pass
	3964.98	Outer_Full	10.99	/	/	<=13	Pass
CP-OFDM 64 QAM	3715.02	Outer_Full	10.97	/	/	<=13	Pass
	3840	Outer_Full	11.71	/	/	<=13	Pass
	3964.98	Outer_Full	10.94	/	/	<=13	Pass
CP-OFDM 256 QAM	3715.02	Outer_Full	11.81	/	/	<=13	Pass
	3840	Outer_Full	12.19	/	/	<=13	Pass
	3964.98	Outer_Full	11.19	/	/	<=13	Pass



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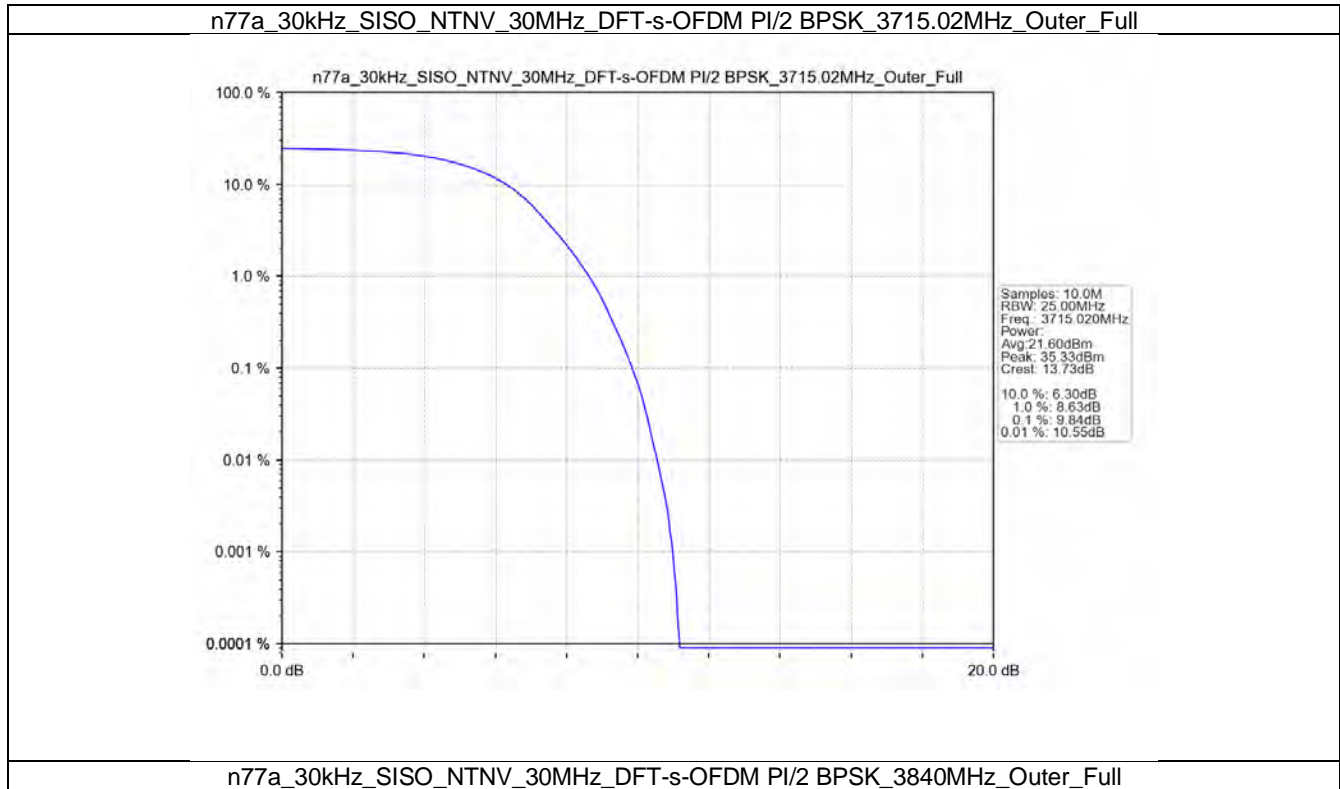
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Rev.: 01

Page: 246 of 973

4.2.2 Test Graph



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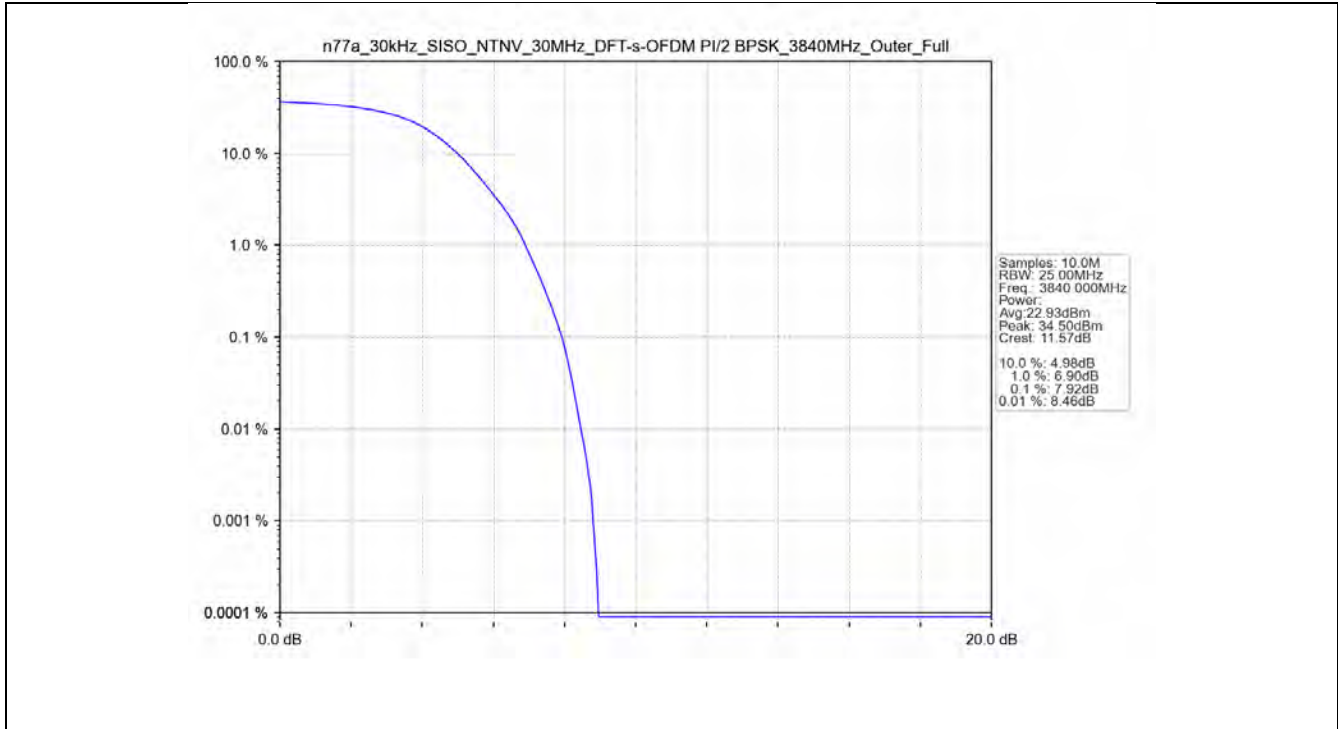


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Rev.: 01

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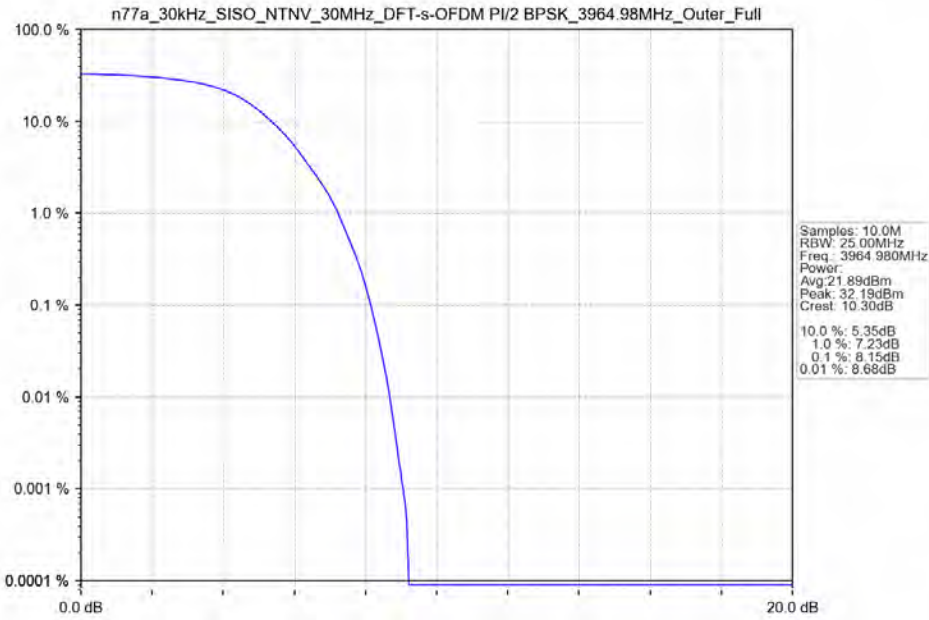
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Report No.: SZCR240100038409

Rev.: 01

Page: 248 of 973

n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3964.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3715.02MHz_Outer_Full



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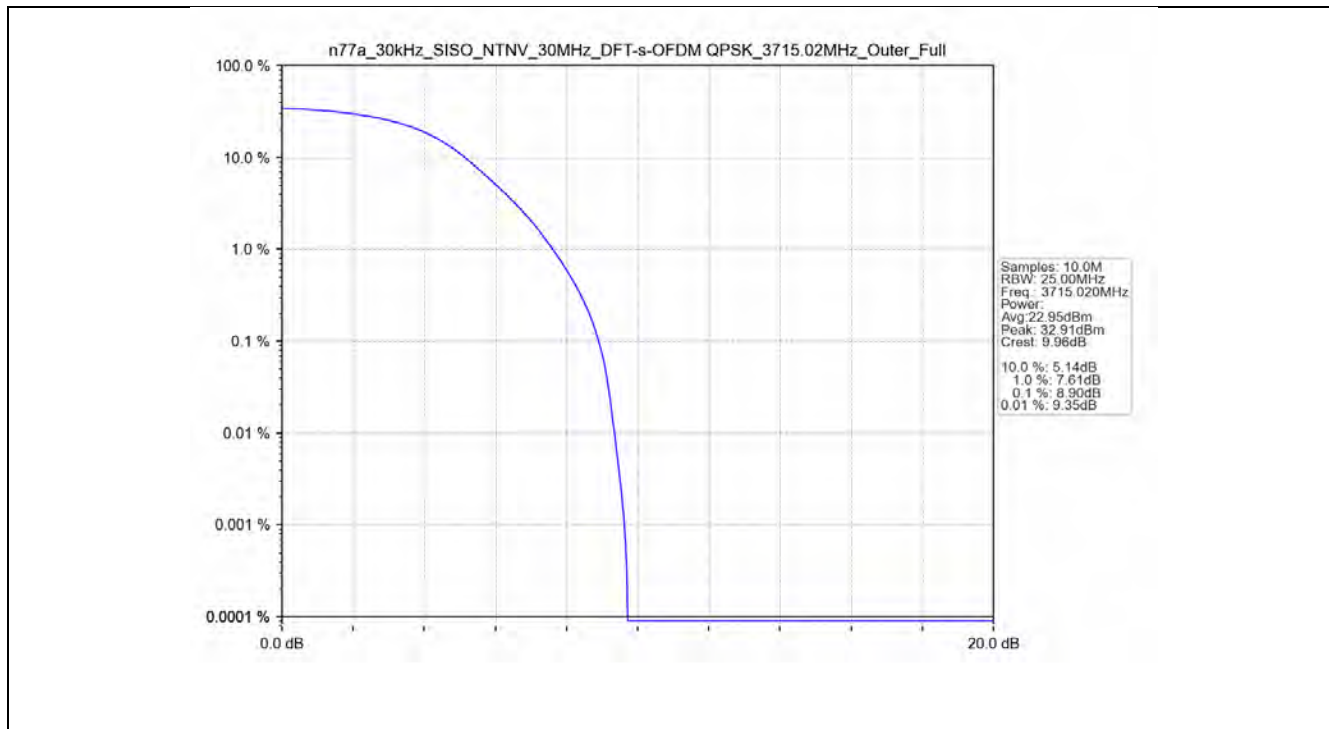
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Report No.: SZCR240100038409
 Rev.: 01
 Page: 249 of 973



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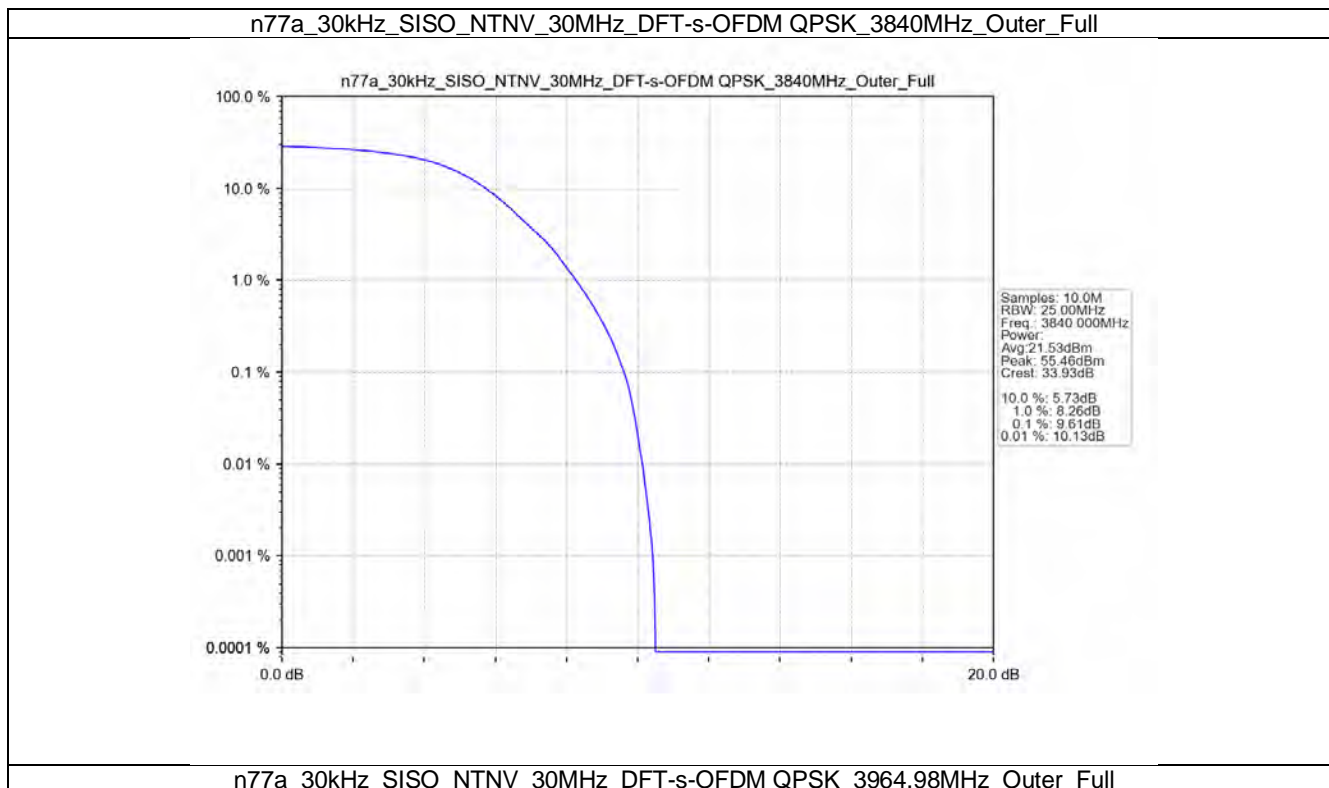
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Report No.: SZCR240100038409
Rev.: 01
Page: 250 of 973



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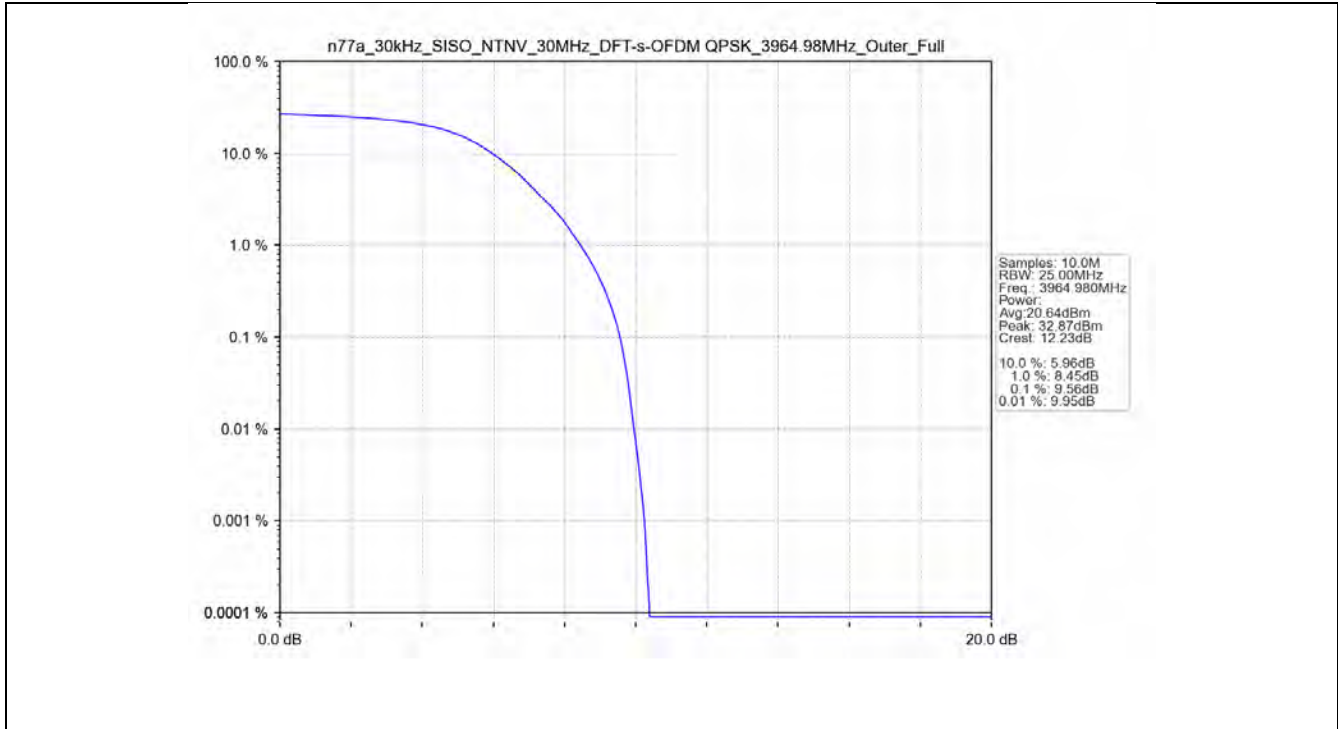


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Report No.: SZCR240100038409

Rev.: 01

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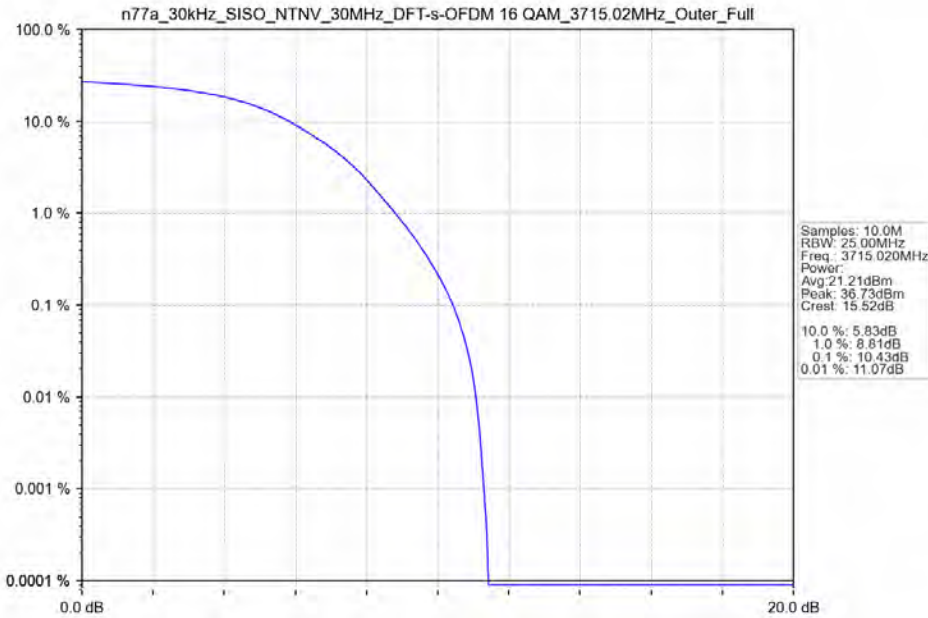
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Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 252 of 973

n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3715.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3840MHz_Outer_Full



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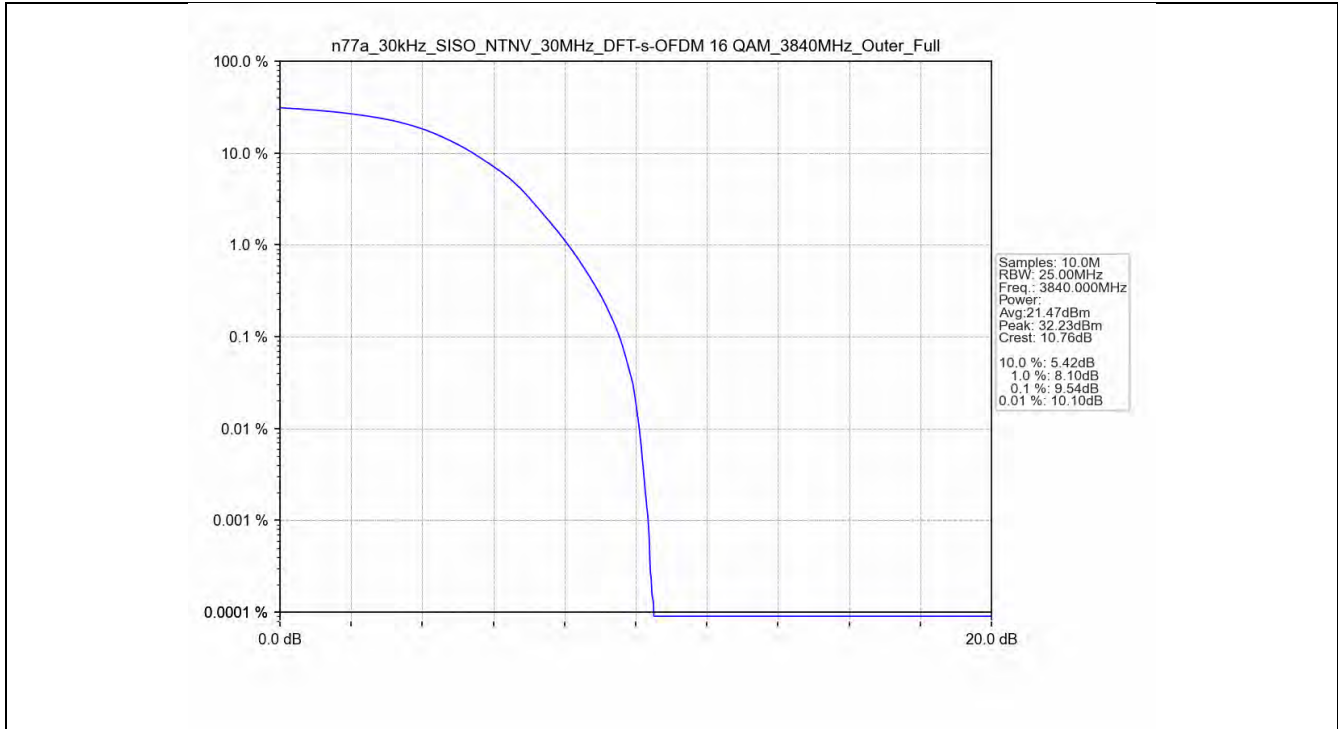


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Report No.: SZCR240100038409

Rev.: 01

Page: 253 of 973



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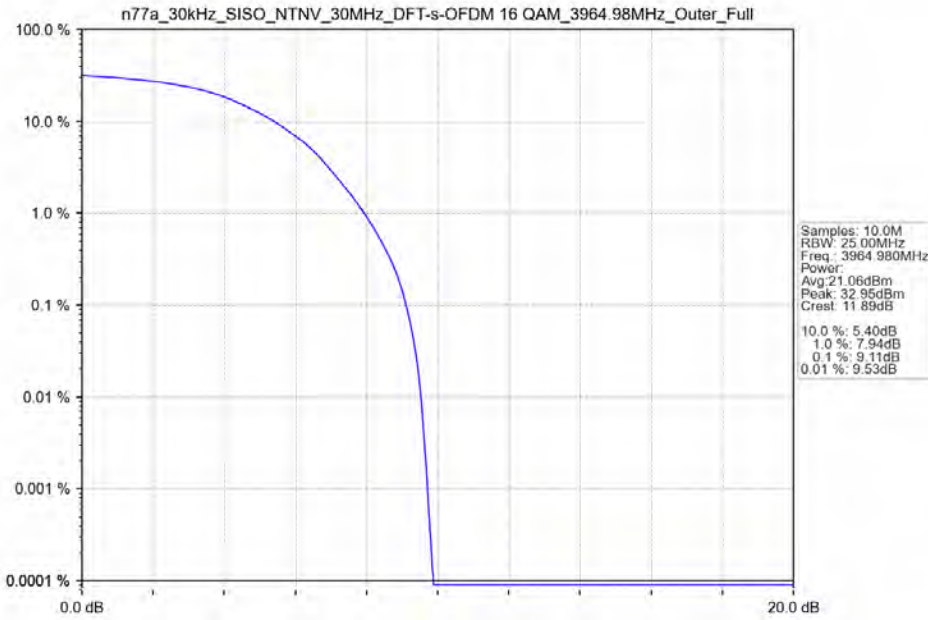
**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

Report No.: SZCR240100038409

Rev.: 01

Page: 254 of 973

n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3964.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3715.02MHz_Outer_Full



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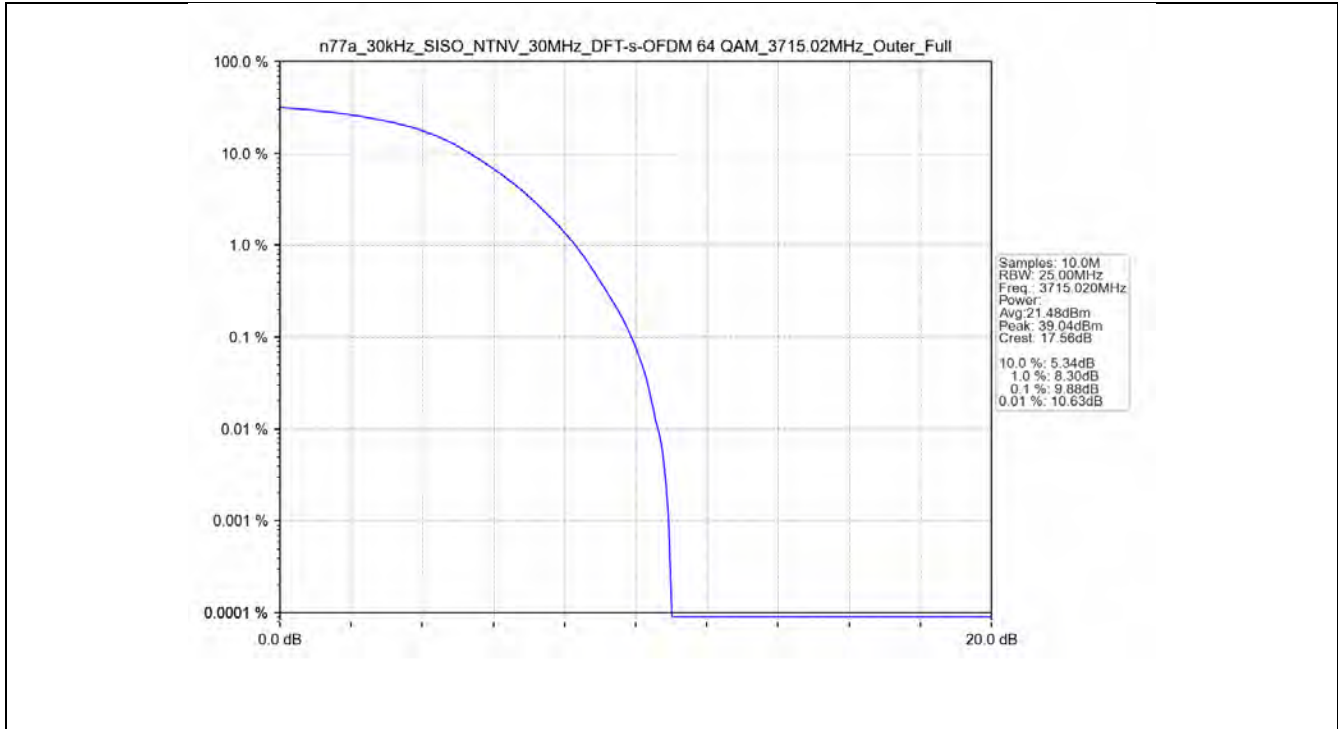


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Report No.: SZCR240100038409

Rev.: 01

Page: 255 of 973



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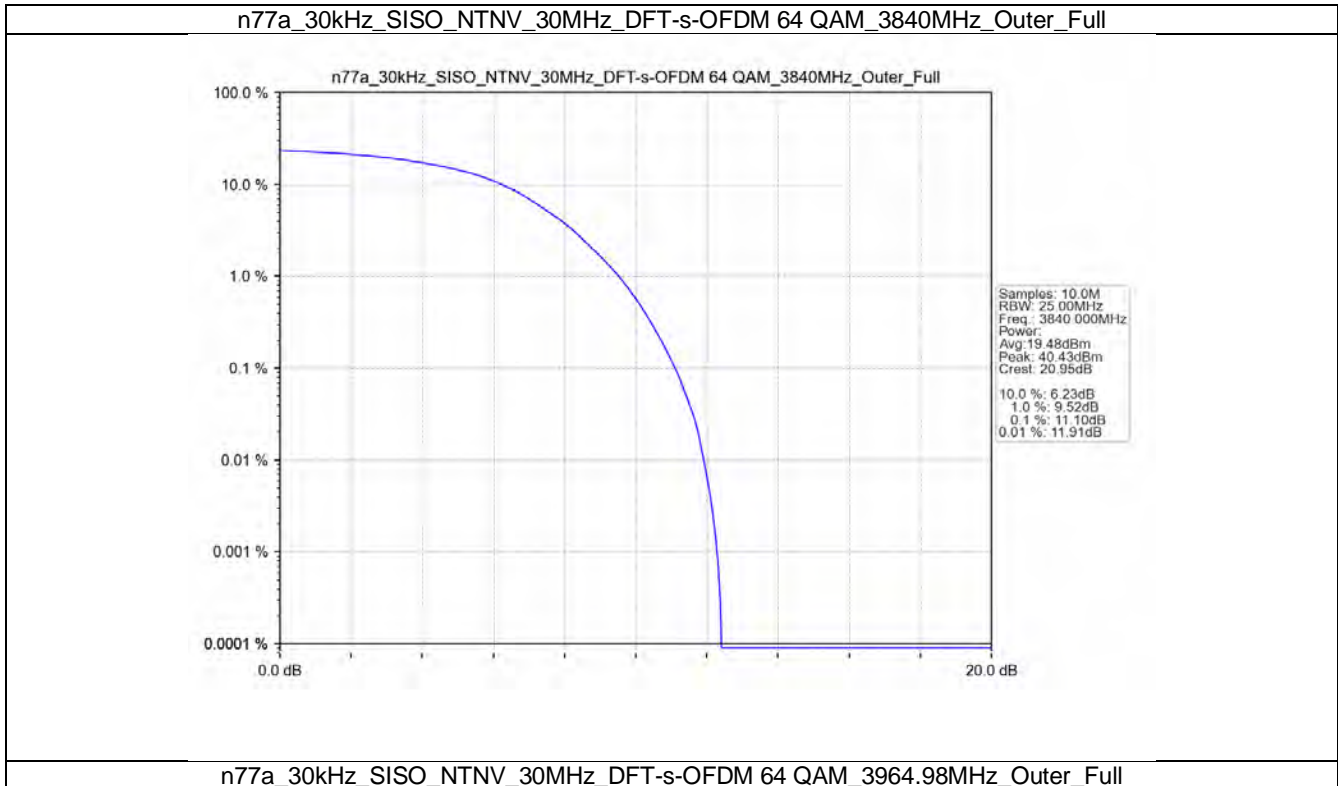


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Report No.: SZCR240100038409

Rev.: 01

Page: 256 of 973



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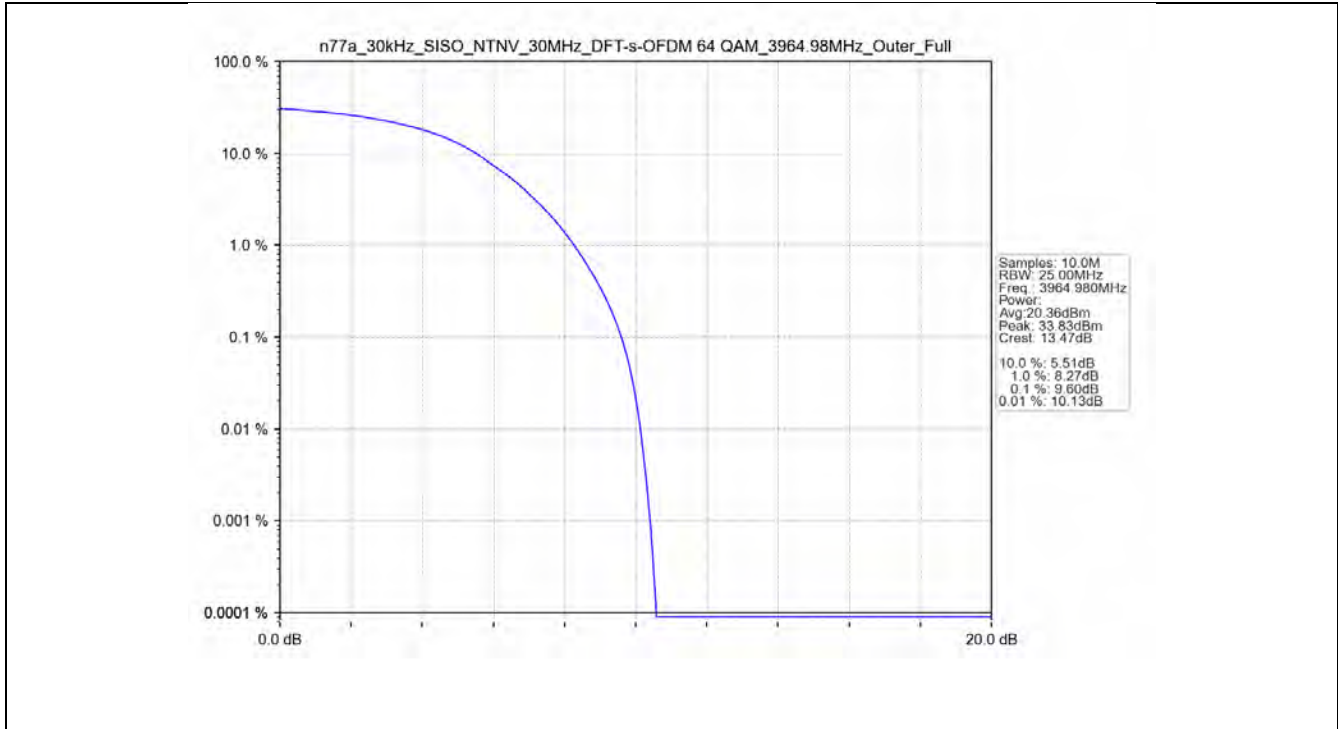


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Report No.: SZCR240100038409

Rev.: 01

Page: 257 of 973



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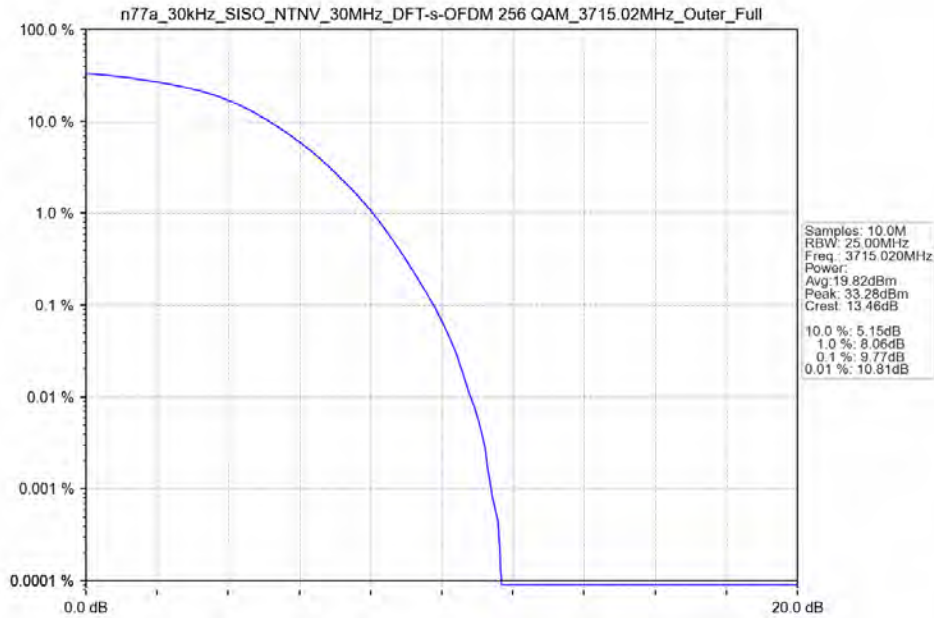
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Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 258 of 973

n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3715.02MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3840MHz_Outer_Full



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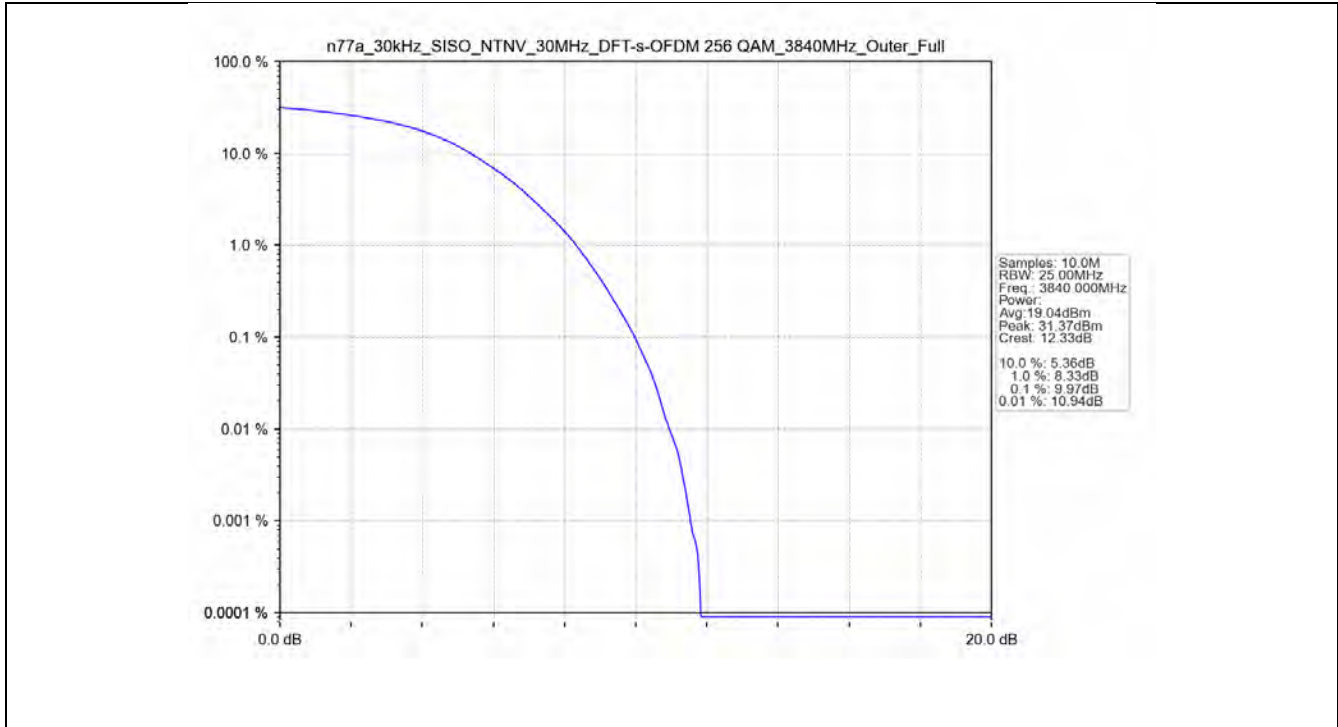


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Rev.: 01

Page: 259 of 973



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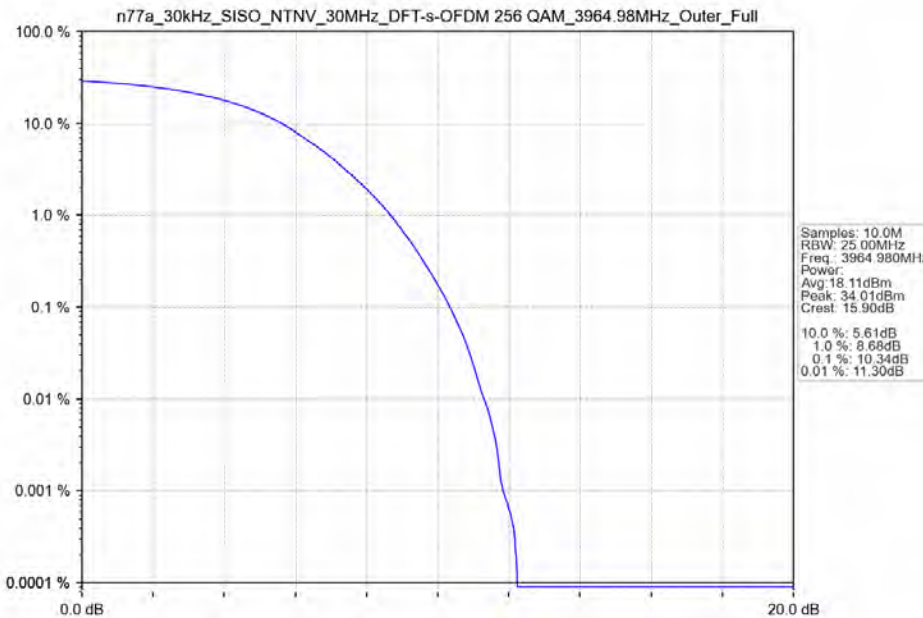
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Report No.: SZCR240100038409
Rev.: 01
Page: 260 of 973

n77a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3964.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3715.02MHz_Outer_Full



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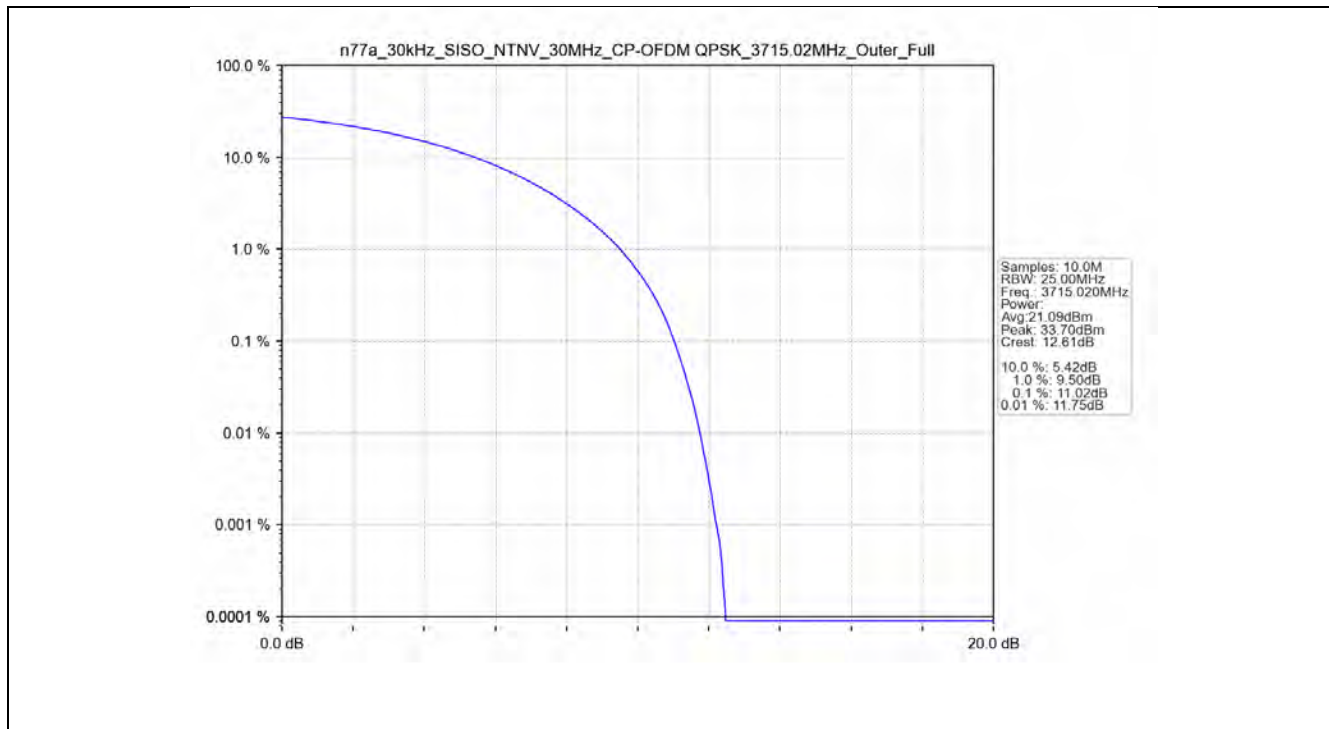
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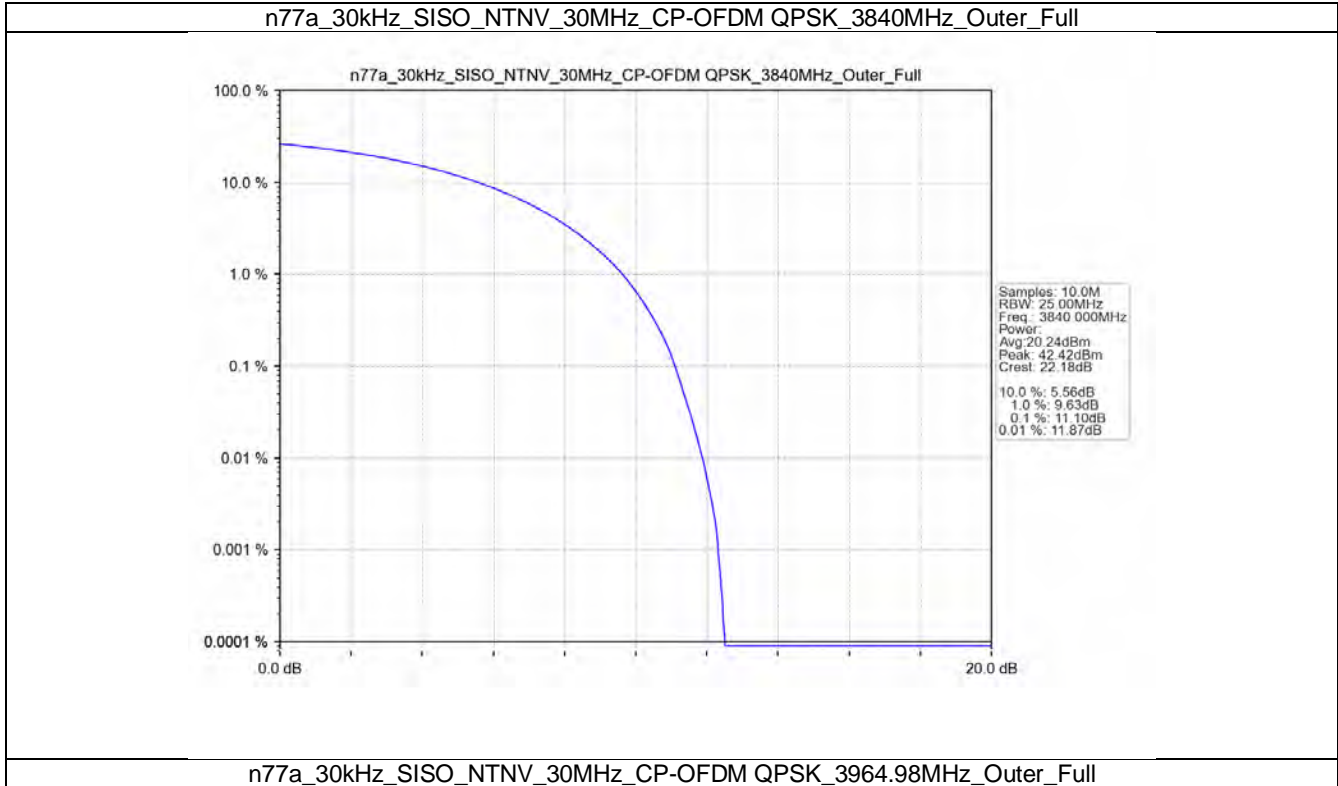


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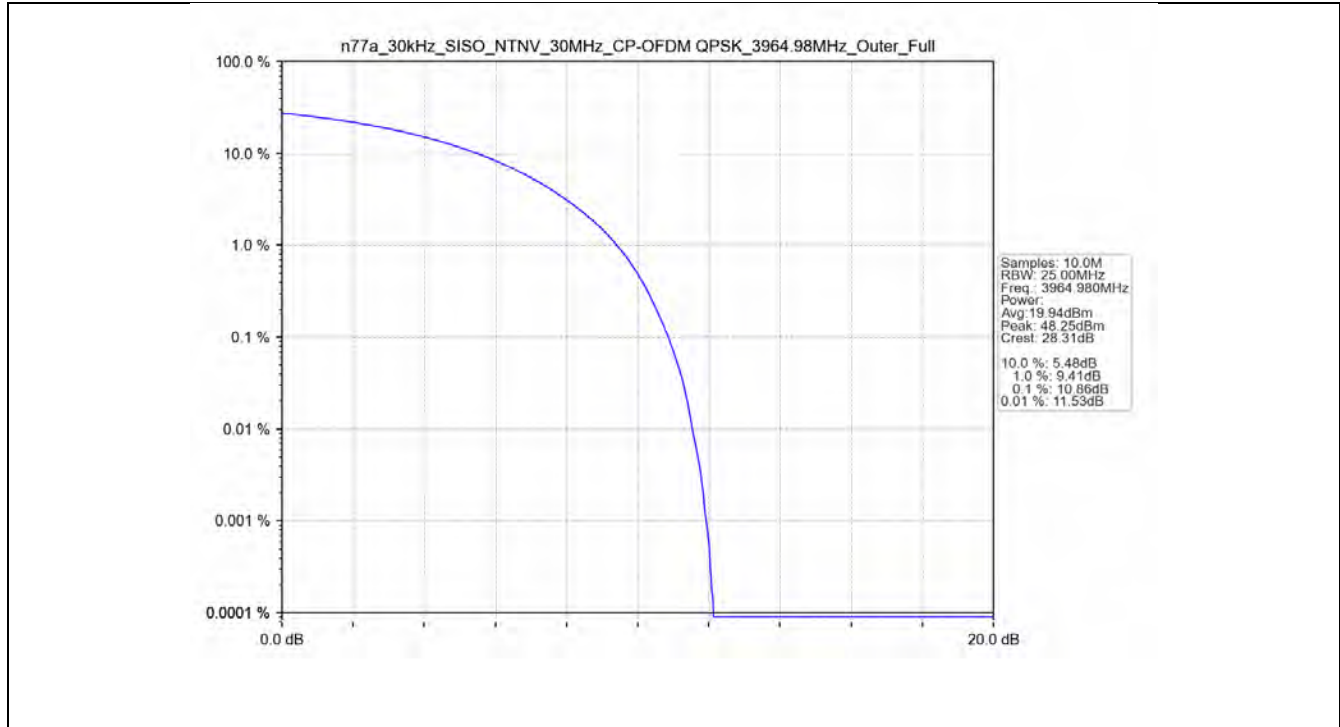


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Rev.: 01

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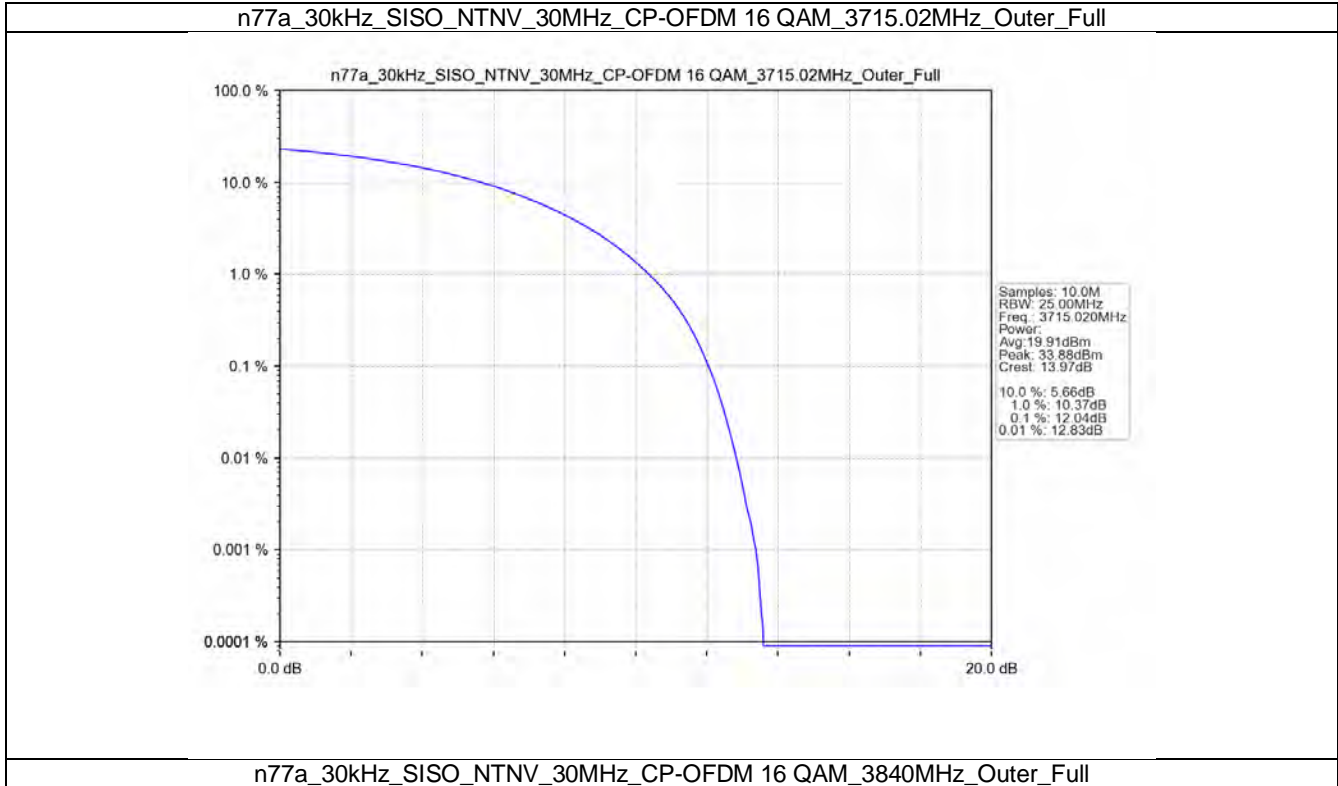


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Rev.: 01

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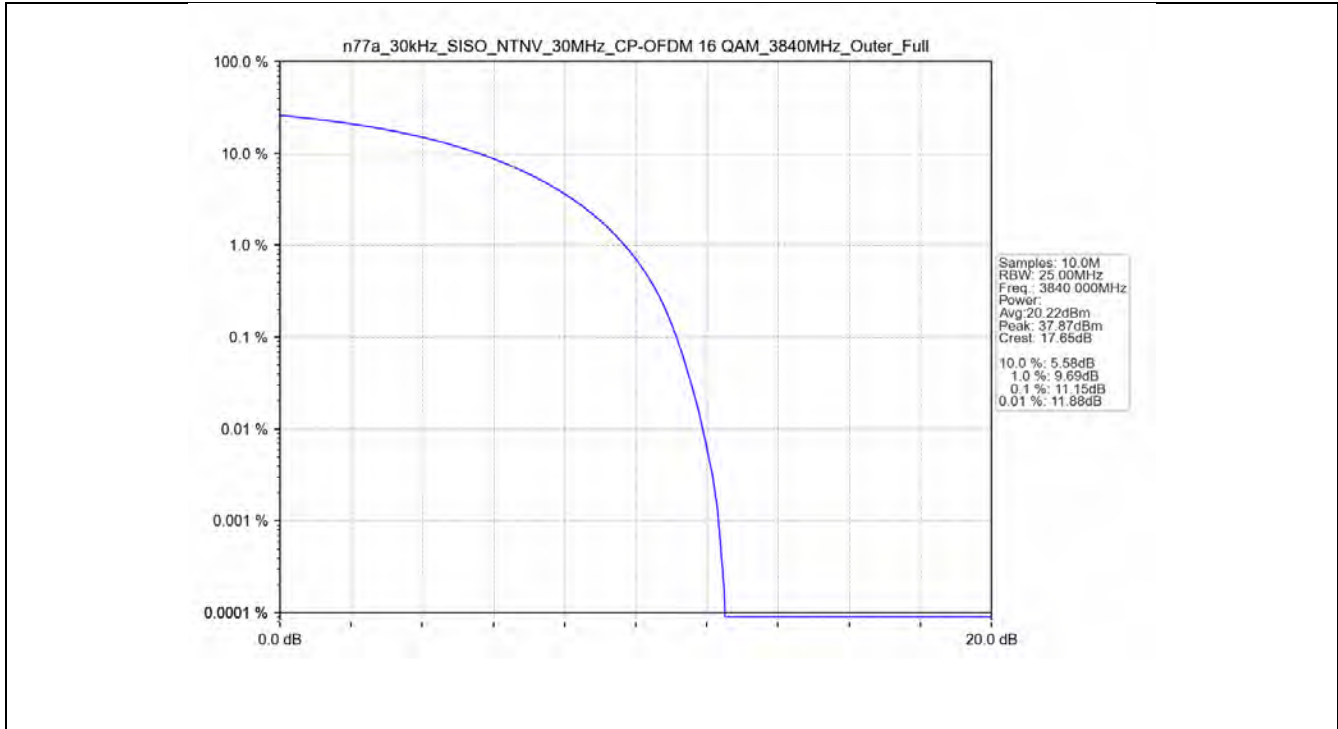


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Report No.: SZCR240100038409

Rev.: 01

Page: 265 of 973



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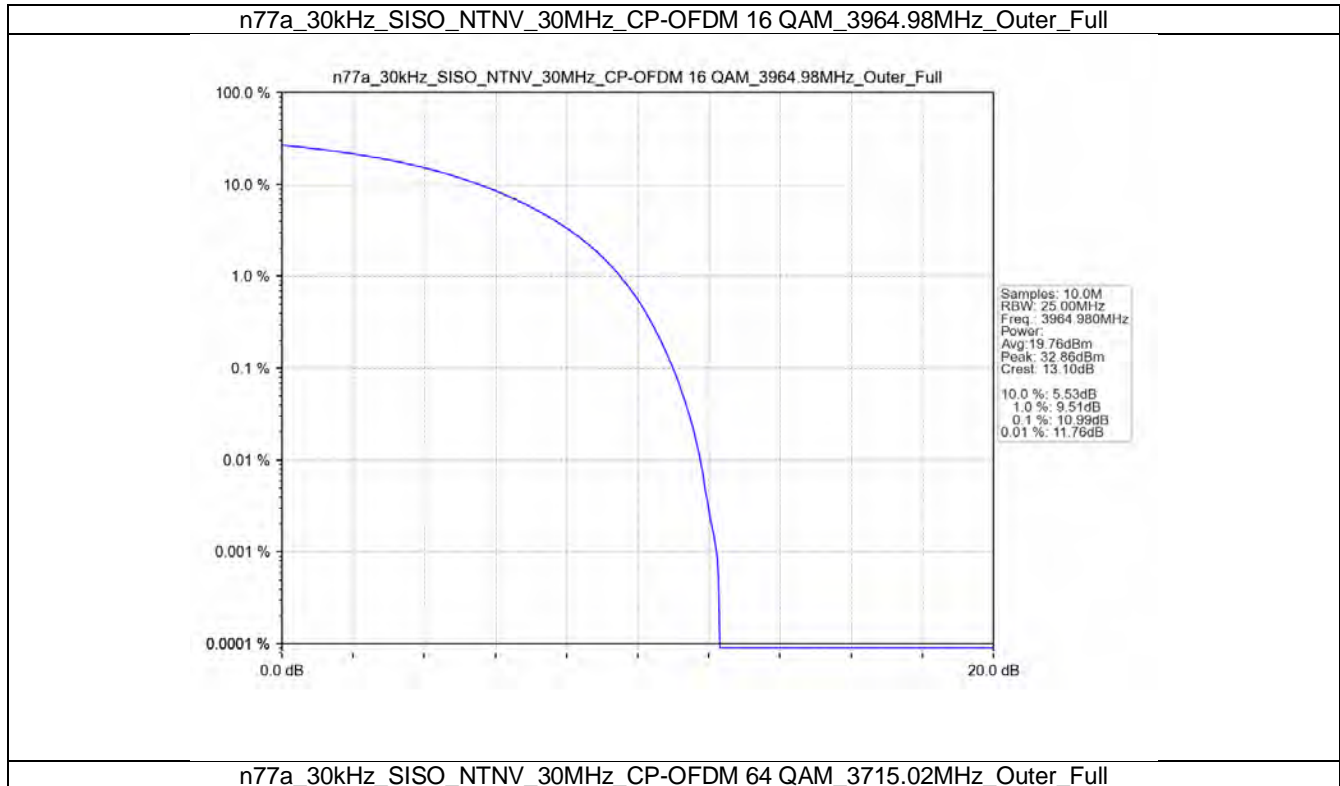


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Report No.: SZCR240100038409

Rev.: 01

Page: 266 of 973



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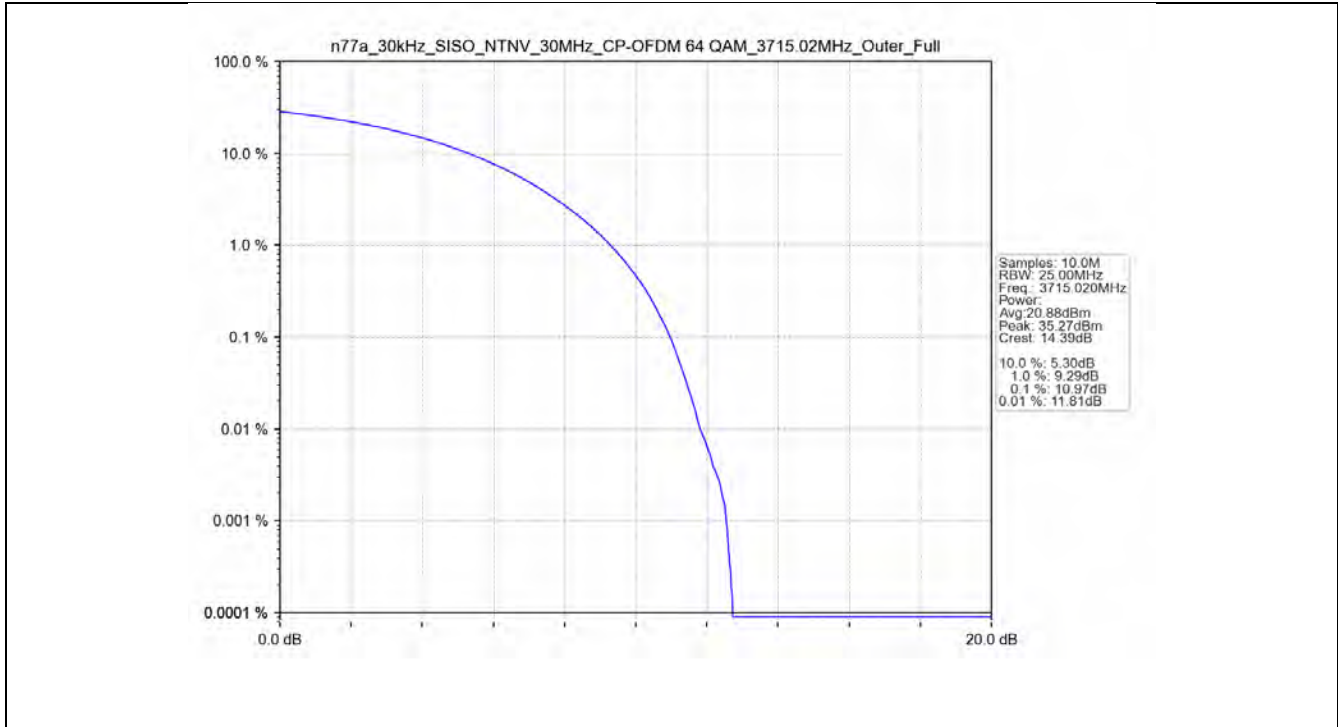


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Report No.: SZCR240100038409

Rev.: 01

Page: 267 of 973



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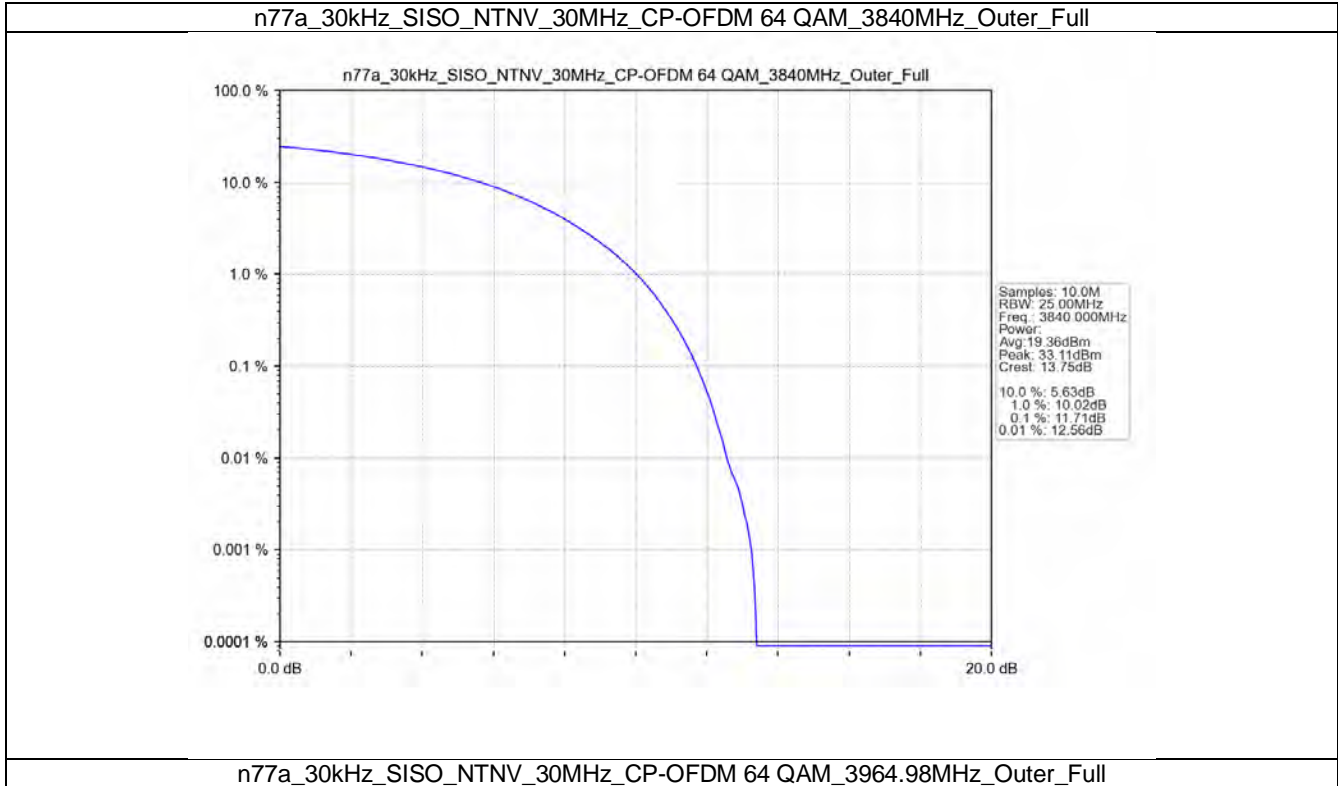


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Report No.: SZCR240100038409

Rev.: 01

Page: 268 of 973



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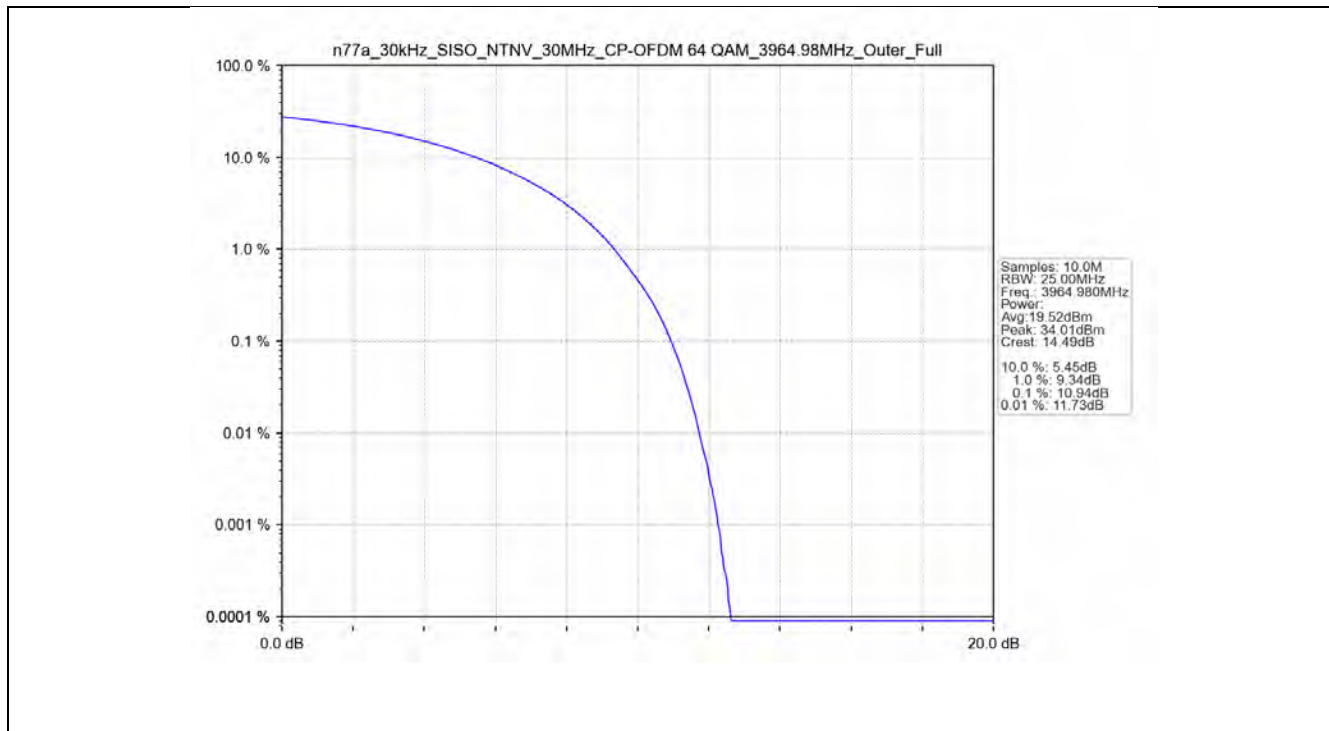
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Report No.: SZCR240100038409
Rev.: 01
Page: 269 of 973



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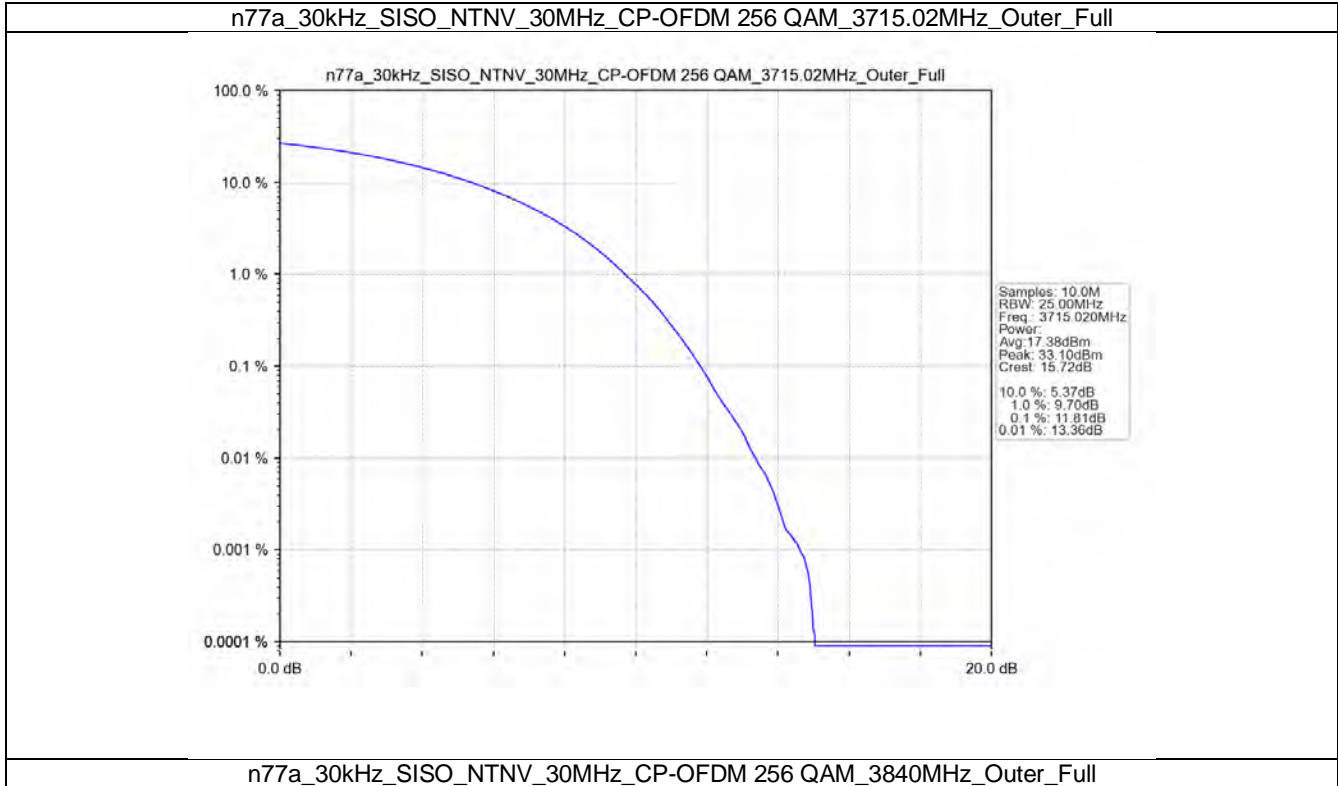


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Report No.: SZCR240100038409

Rev.: 01

Page: 270 of 973



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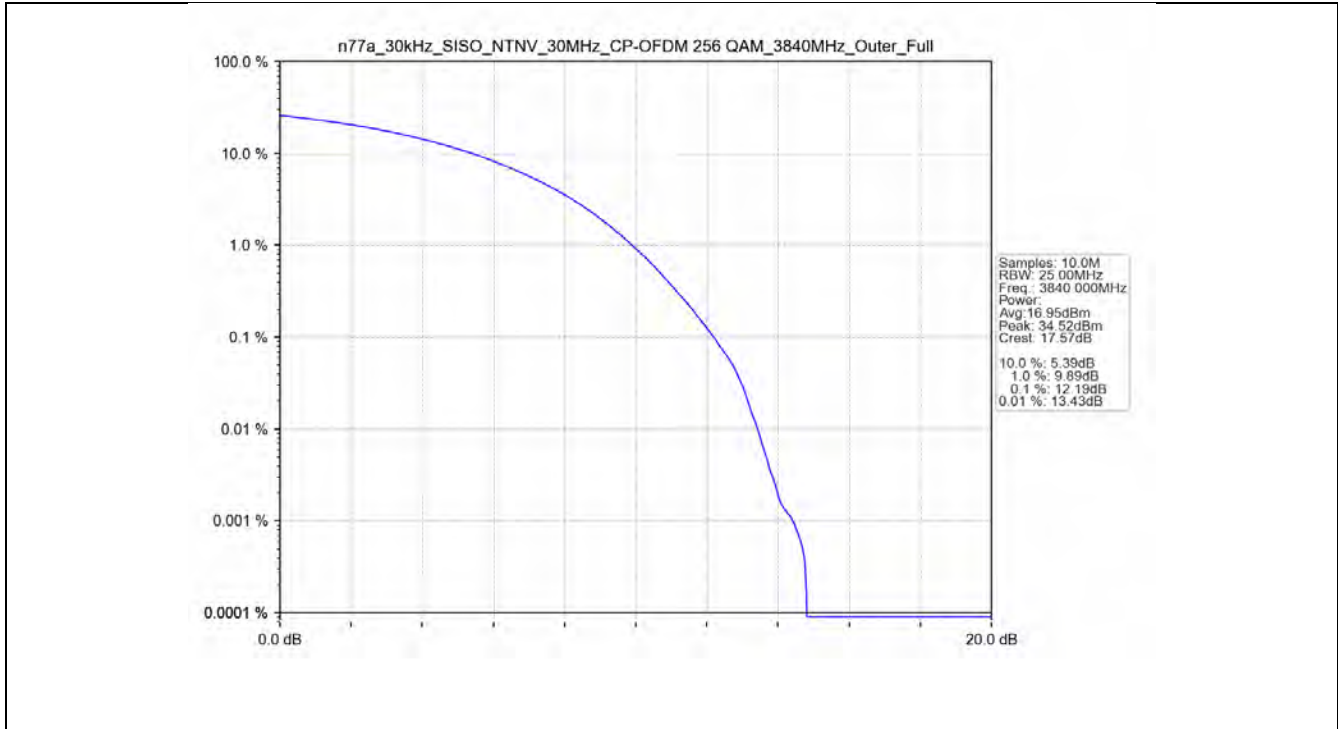


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Report No.: SZCR240100038409

Rev.: 01

Page: 271 of 973



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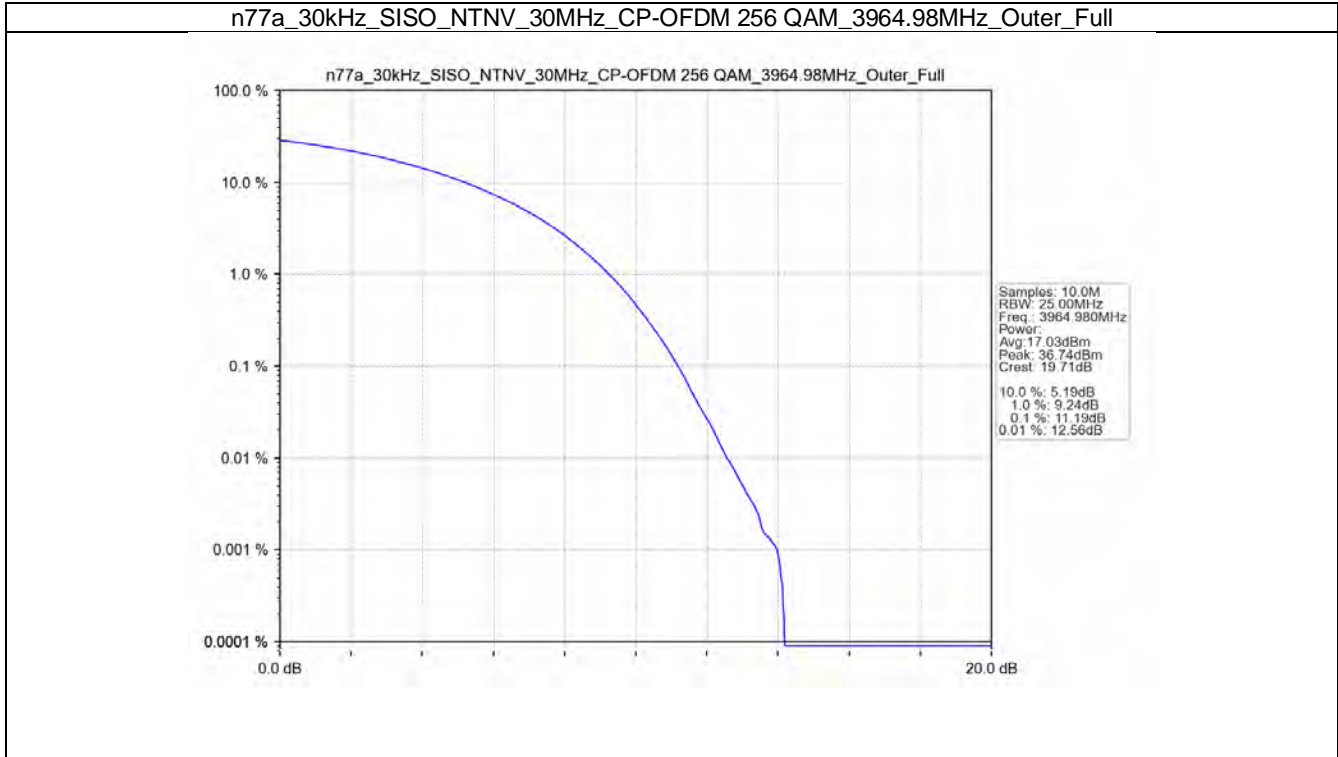


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Page: 272 of 973



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Report No.: SZCR240100038409

Rev.: 01

Page: 273 of 973

4.3 30k_SISO_40MHz_NTNV

4.3.1 Test Result

5G NR n77a SCS=30kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3720	Outer_Full	8.94	/	/	<=13	Pass
	3840	Outer_Full	8.75	/	/	<=13	Pass
	3960	Outer_Full	8.61	/	/	<=13	Pass
DFT-s-OFDM QPSK	3720	Outer_Full	9.63	/	/	<=13	Pass
	3840	Outer_Full	9.44	/	/	<=13	Pass
	3960	Outer_Full	9.64	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3720	Outer_Full	10.28	/	/	<=13	Pass
	3840	Outer_Full	10.41	/	/	<=13	Pass
	3960	Outer_Full	11.11	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3720	Outer_Full	10.21	/	/	<=13	Pass
	3840	Outer_Full	10.29	/	/	<=13	Pass
	3960	Outer_Full	11.22	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3720	Outer_Full	10.79	/	/	<=13	Pass
	3840	Outer_Full	10.97	/	/	<=13	Pass
	3960	Outer_Full	10.52	/	/	<=13	Pass
CP-OFDM QPSK	3720	Outer_Full	12.53	/	/	<=13	Pass
	3840	Outer_Full	11.33	/	/	<=13	Pass
	3960	Outer_Full	12.27	/	/	<=13	Pass
CP-OFDM 16 QAM	3720	Outer_Full	12.57	/	/	<=13	Pass
	3840	Outer_Full	11.70	/	/	<=13	Pass
	3960	Outer_Full	11.20	/	/	<=13	Pass
CP-OFDM 64 QAM	3720	Outer_Full	11.76	/	/	<=13	Pass
	3840	Outer_Full	11.74	/	/	<=13	Pass
	3960	Outer_Full	11.66	/	/	<=13	Pass
CP-OFDM 256 QAM	3720	Outer_Full	11.91	/	/	<=13	Pass
	3840	Outer_Full	11.48	/	/	<=13	Pass
	3960	Outer_Full	11.59	/	/	<=13	Pass



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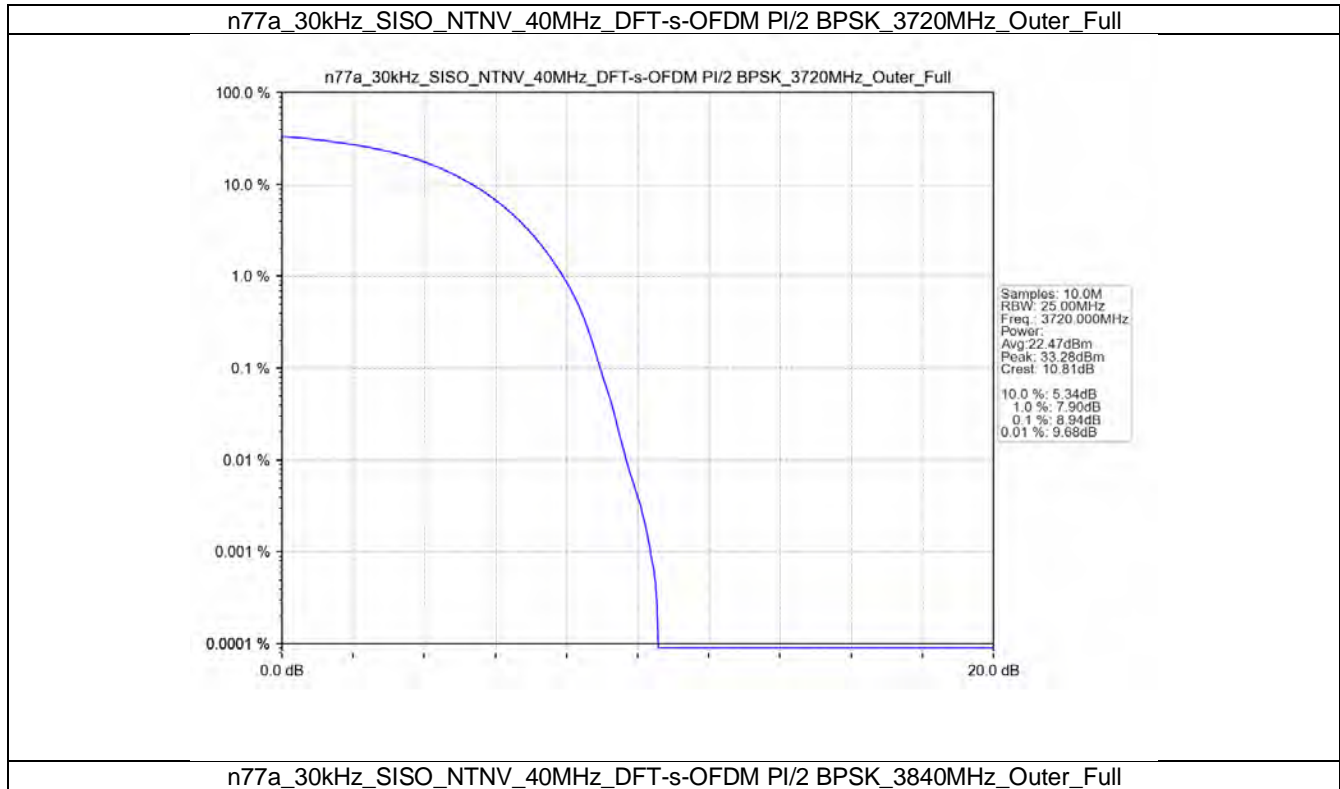
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Page: 274 of 973

4.3.2 Test Graph



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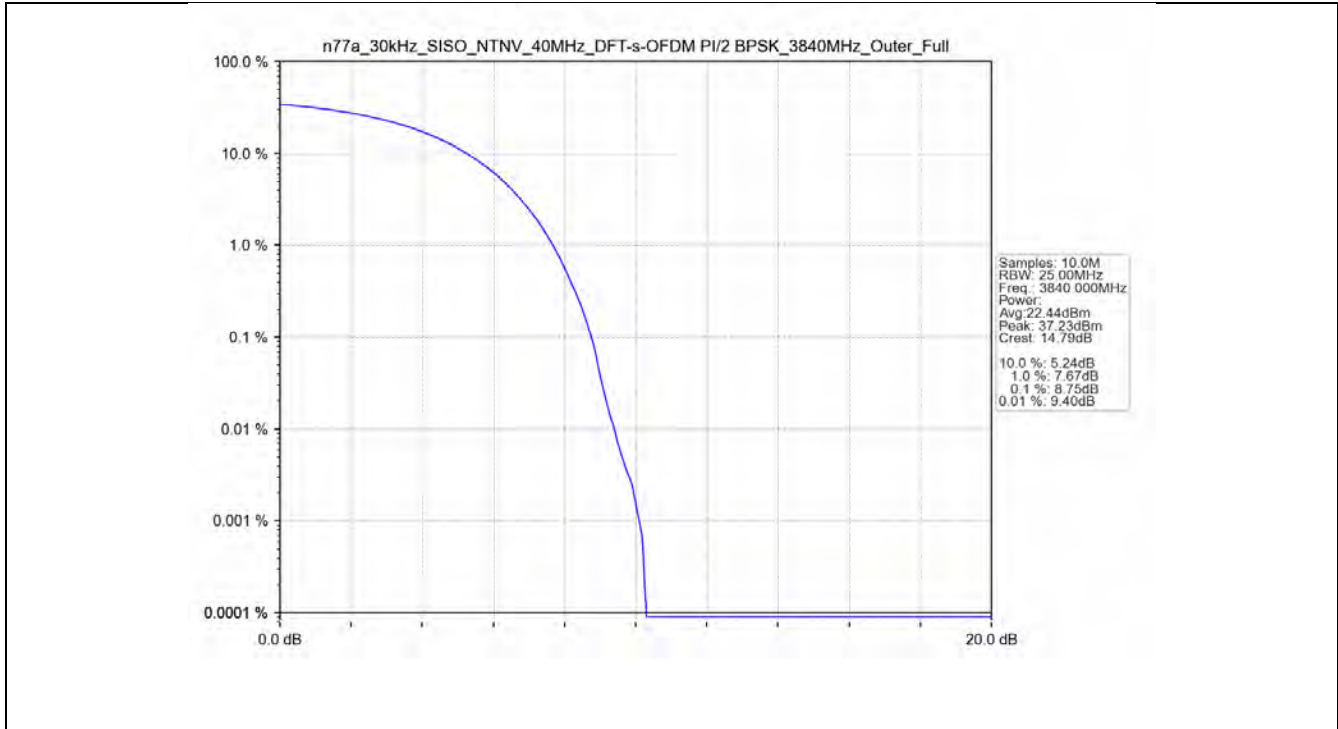


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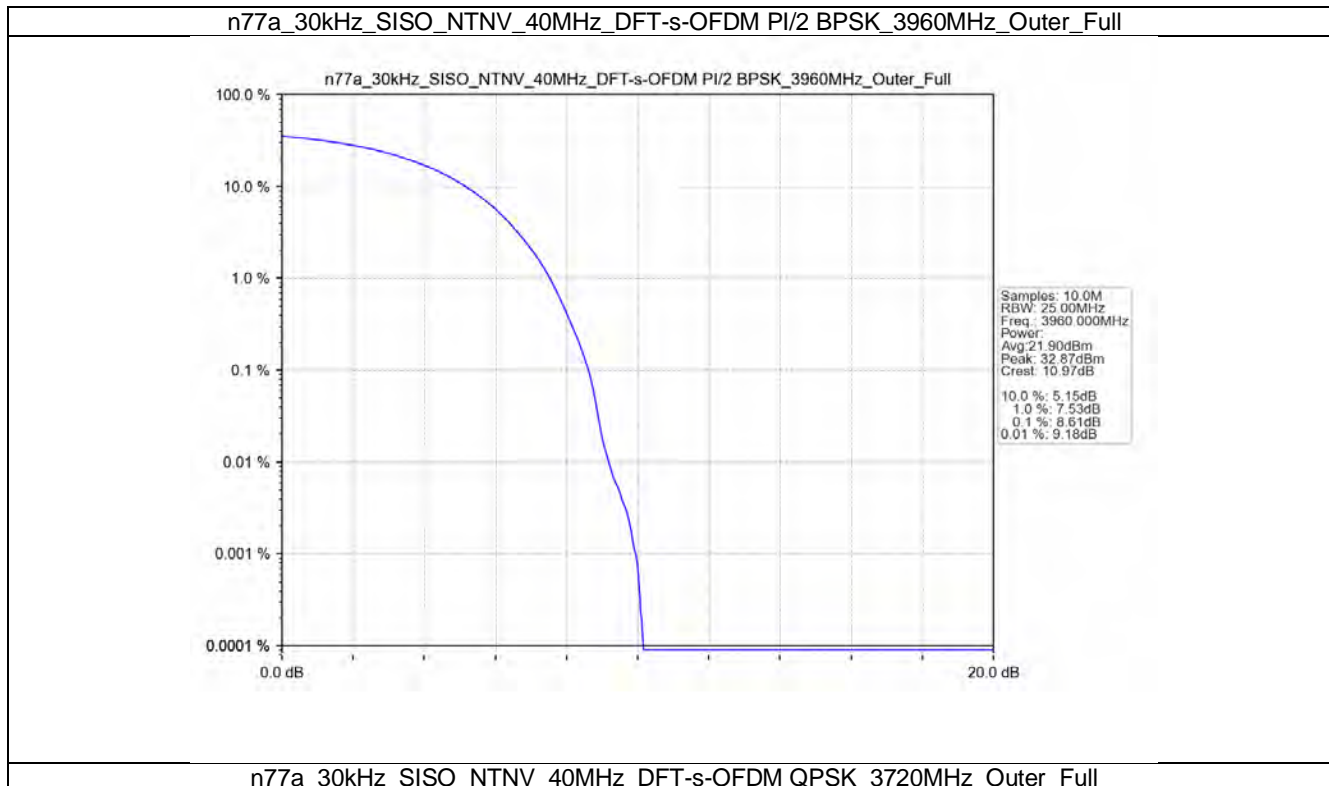
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Page: 276 of 973



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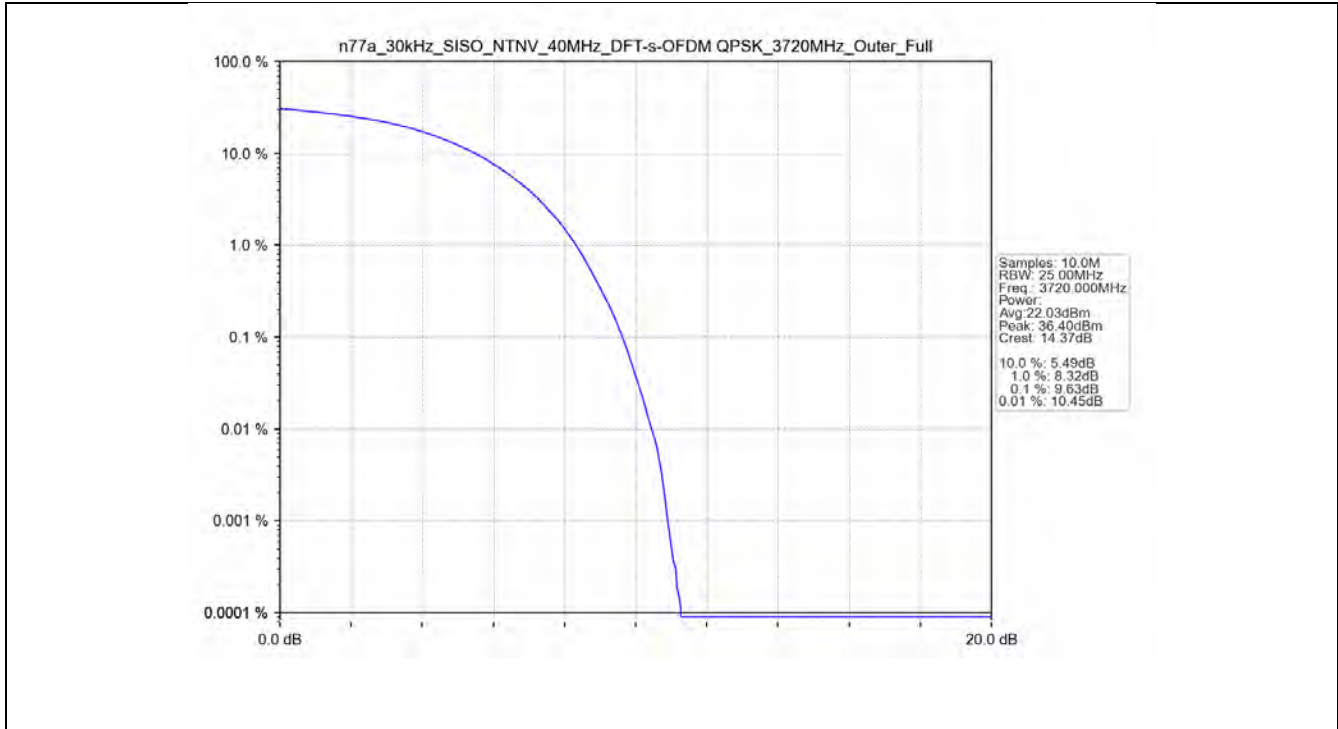


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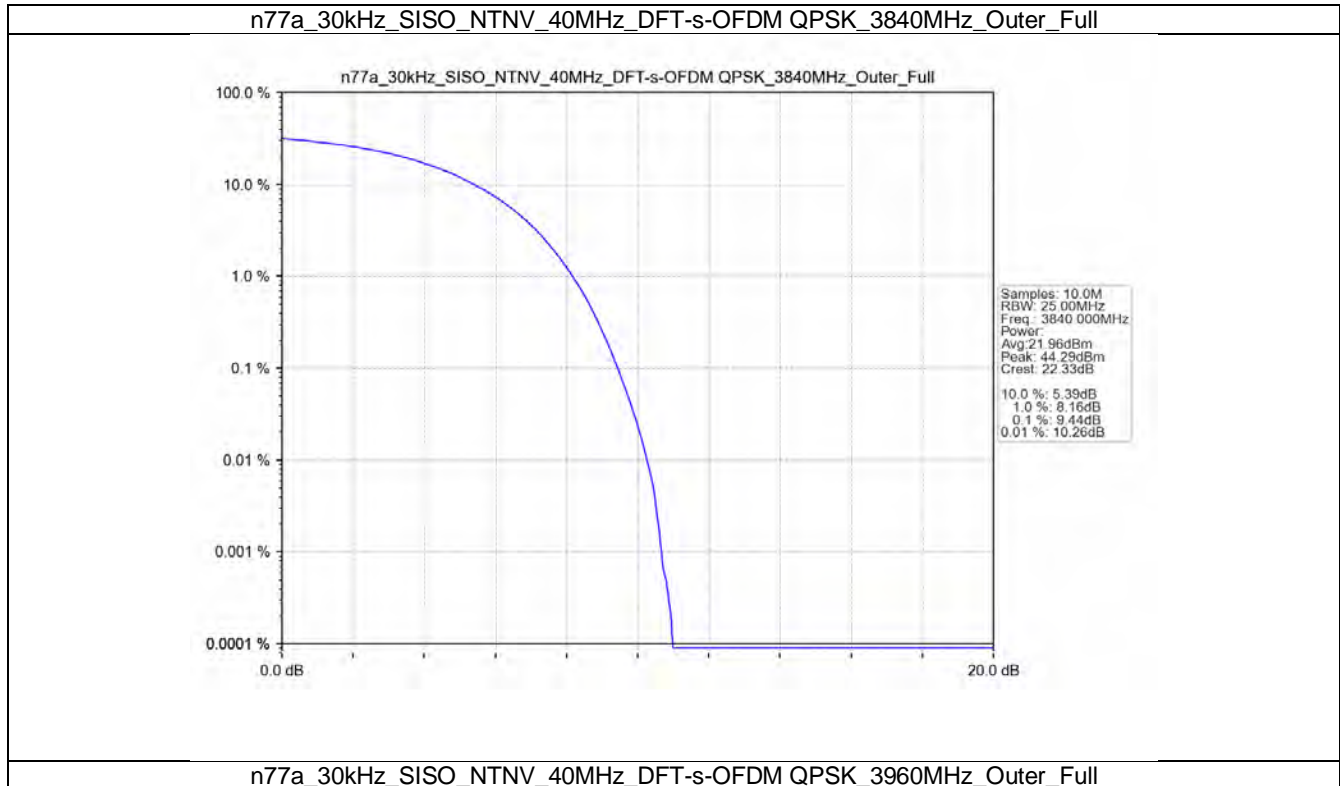


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Rev.: 01

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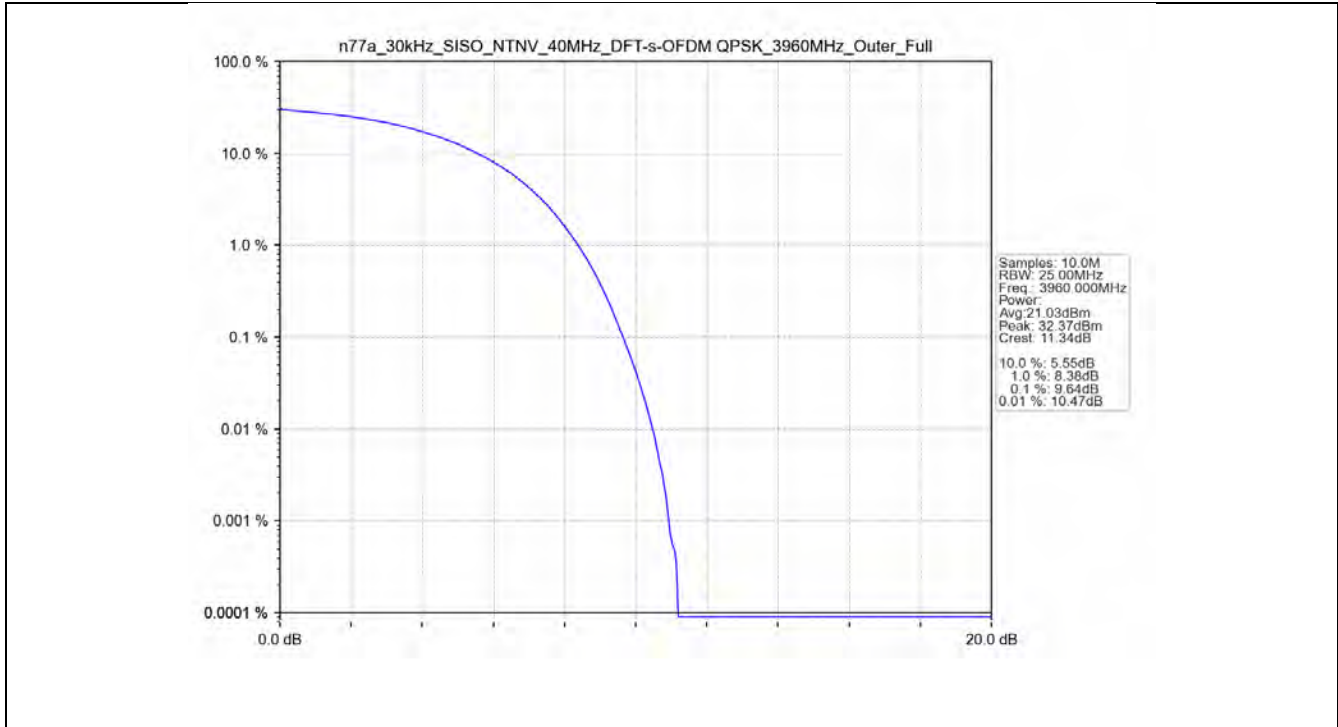


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Report No.: SZCR240100038409

Rev.: 01

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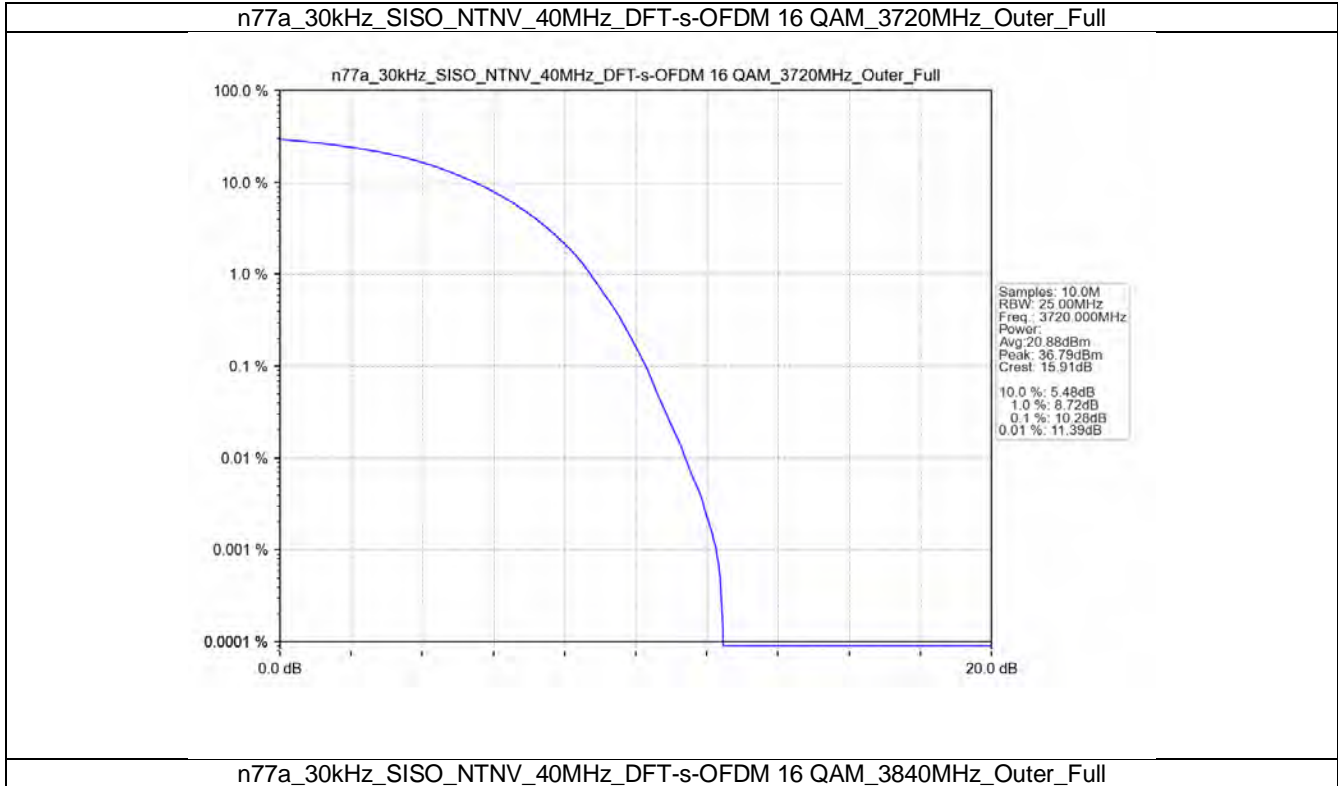


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Report No.: SZCR240100038409

Rev.: 01

Page: 280 of 973



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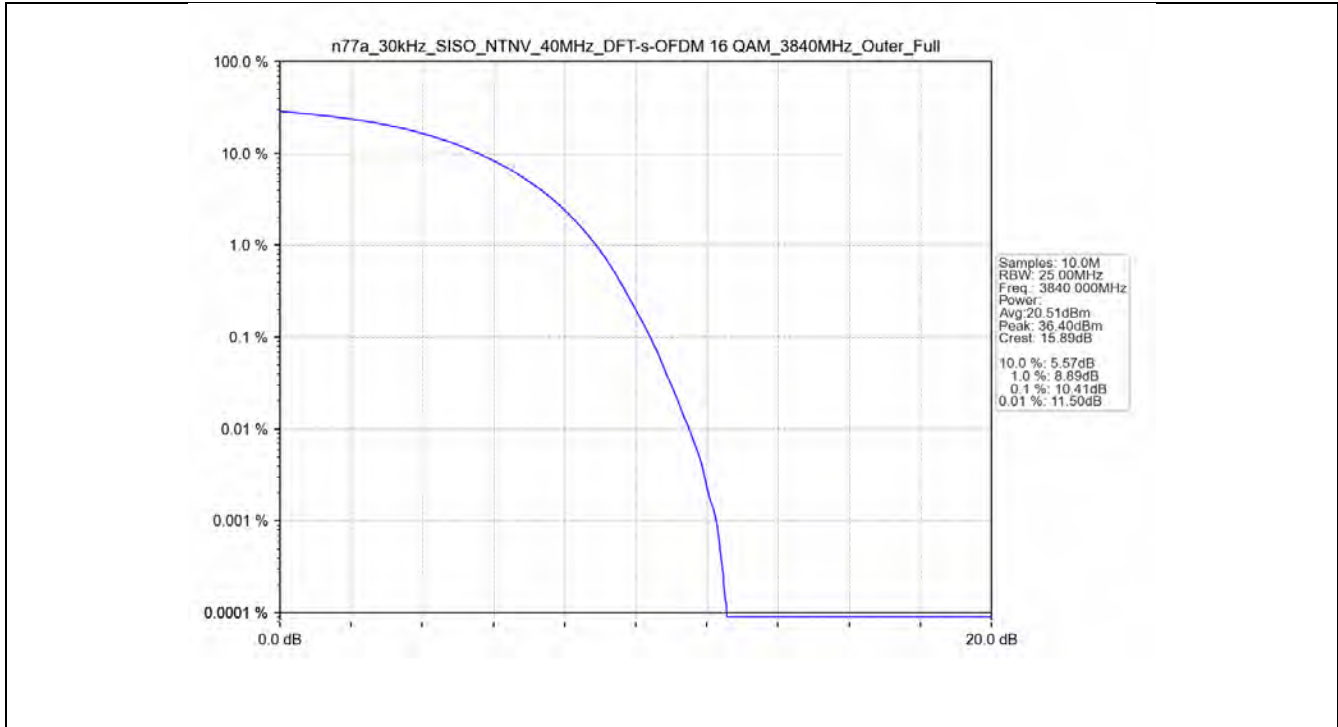


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Report No.: SZCR240100038409

Rev.: 01

Page: 281 of 973



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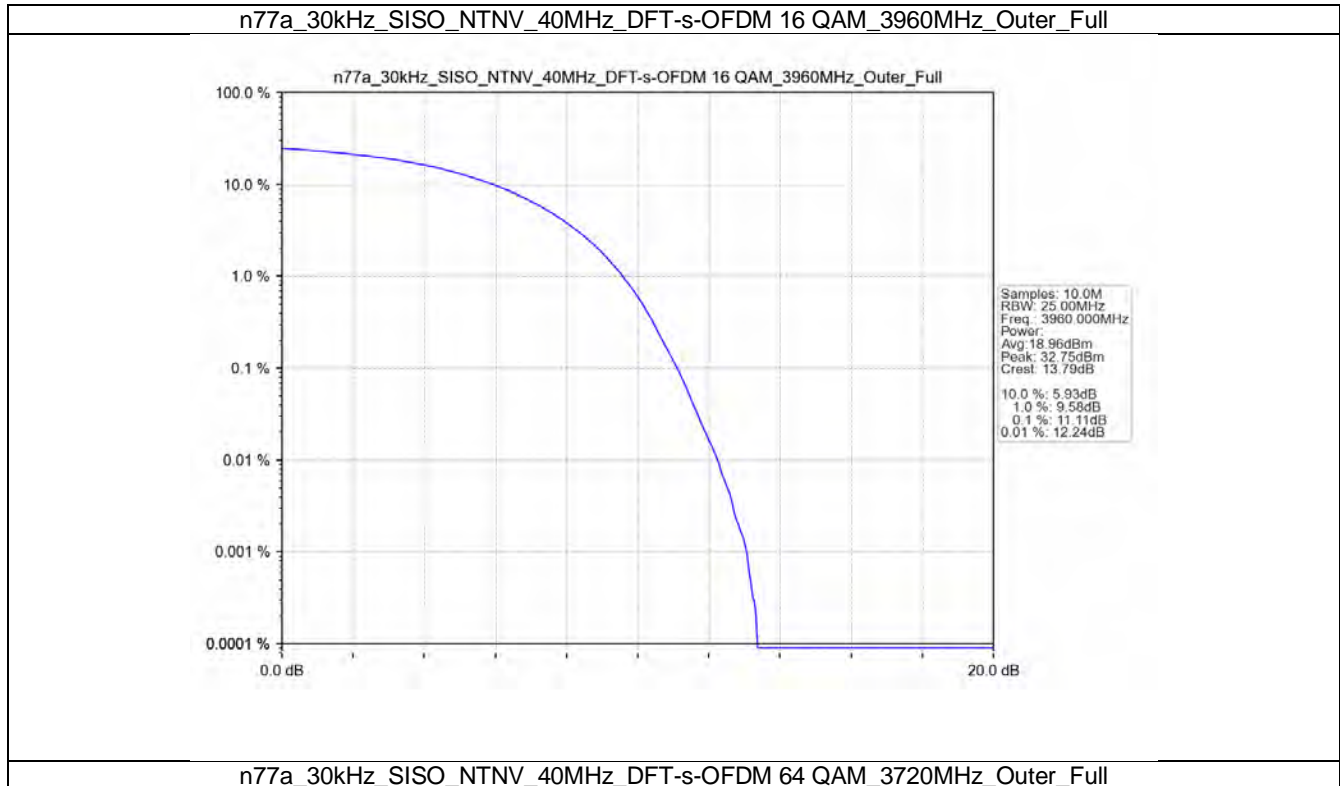


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Report No.: SZCR240100038409

Rev.: 01

Page: 282 of 973



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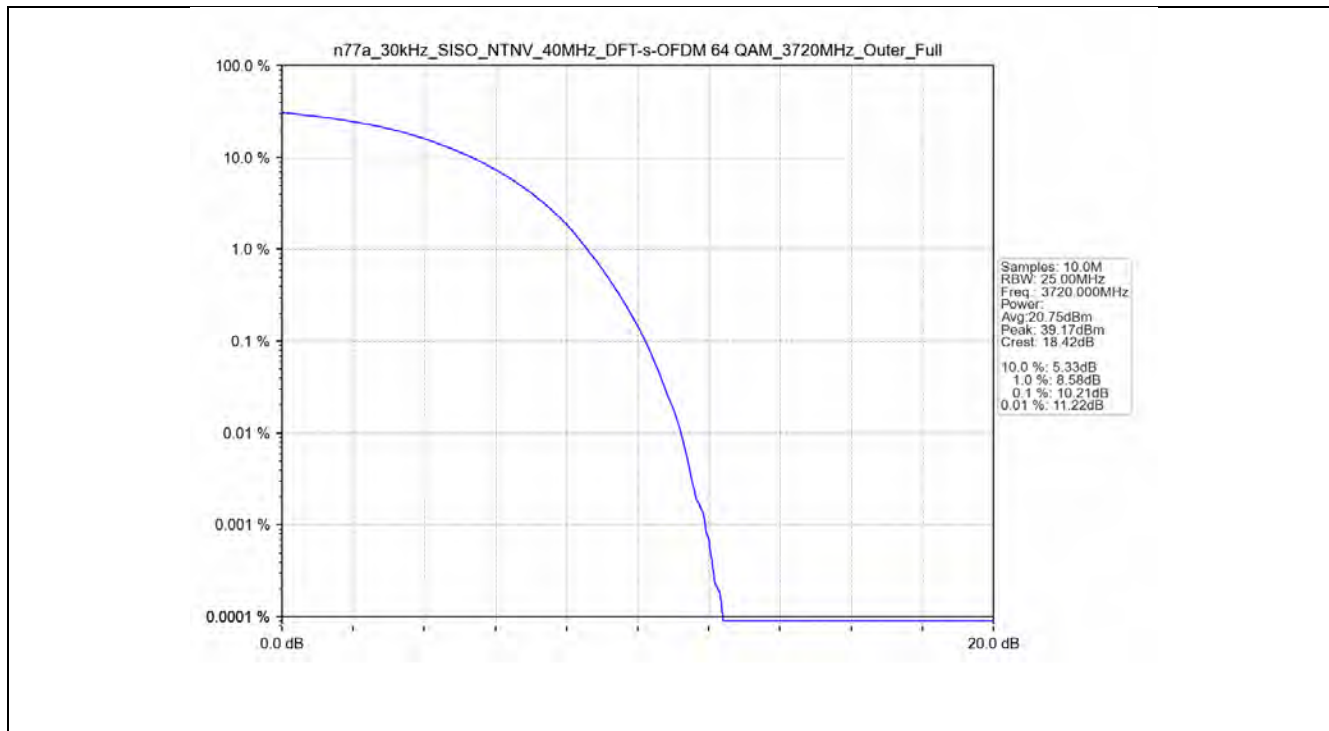
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Report No.: SZCR240100038409
 Rev.: 01
 Page: 283 of 973



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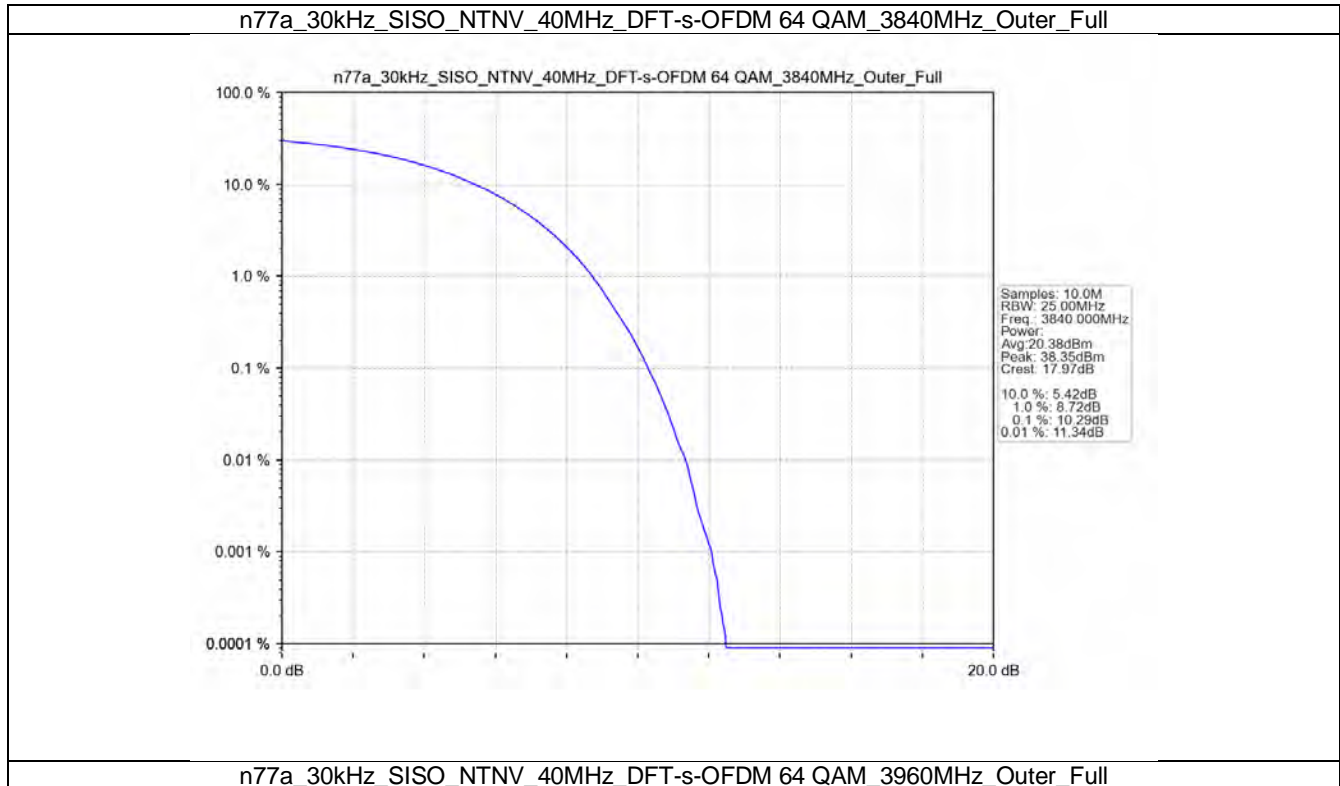


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Report No.: SZCR240100038409

Rev.: 01

Page: 284 of 973



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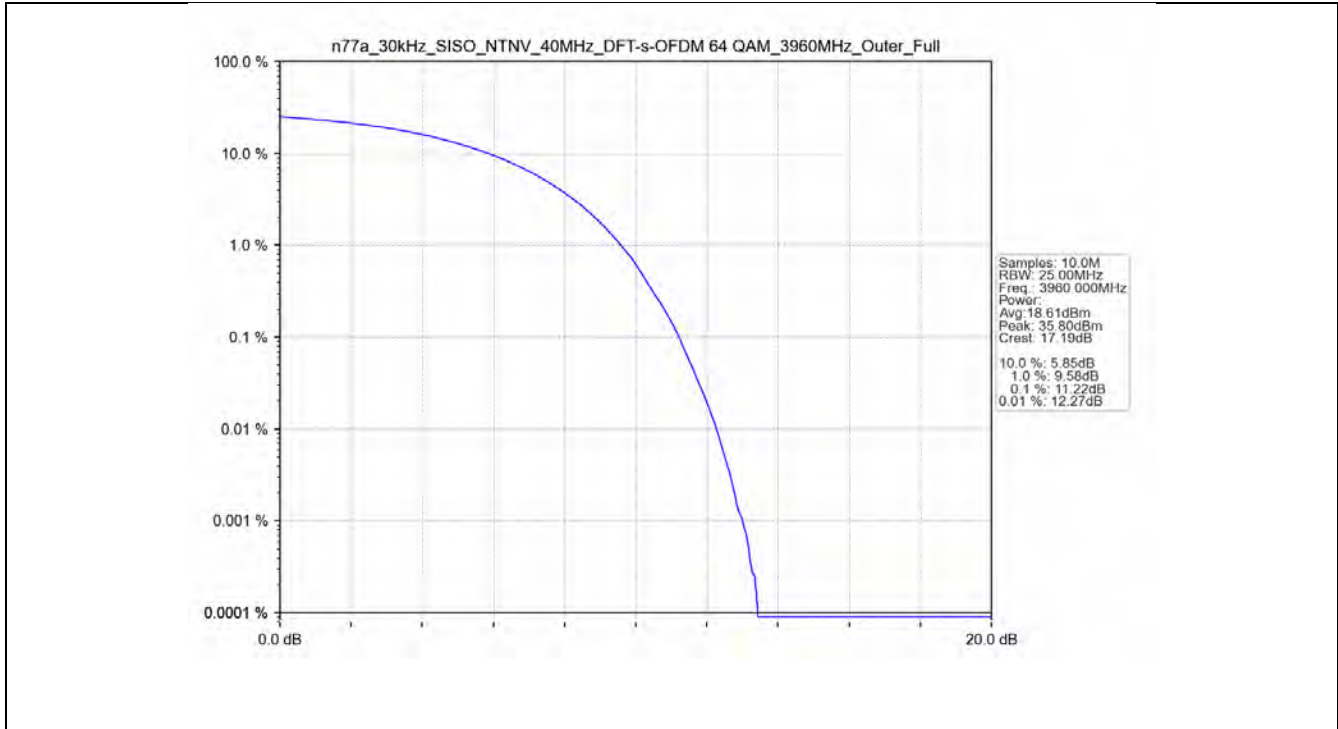


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Rev.: 01

Page: 285 of 973



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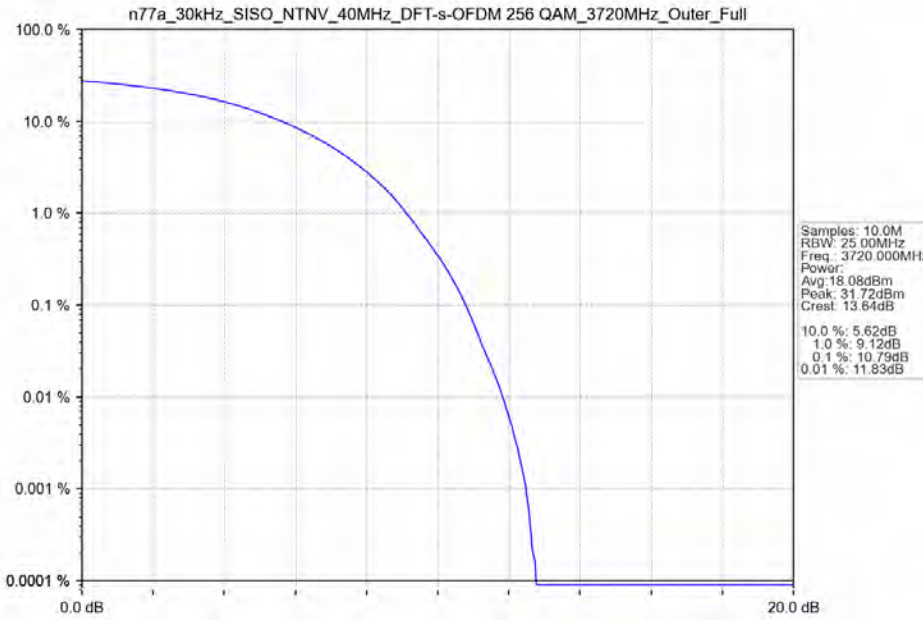
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Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 286 of 973

n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3720MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3840MHz_Outer_Full



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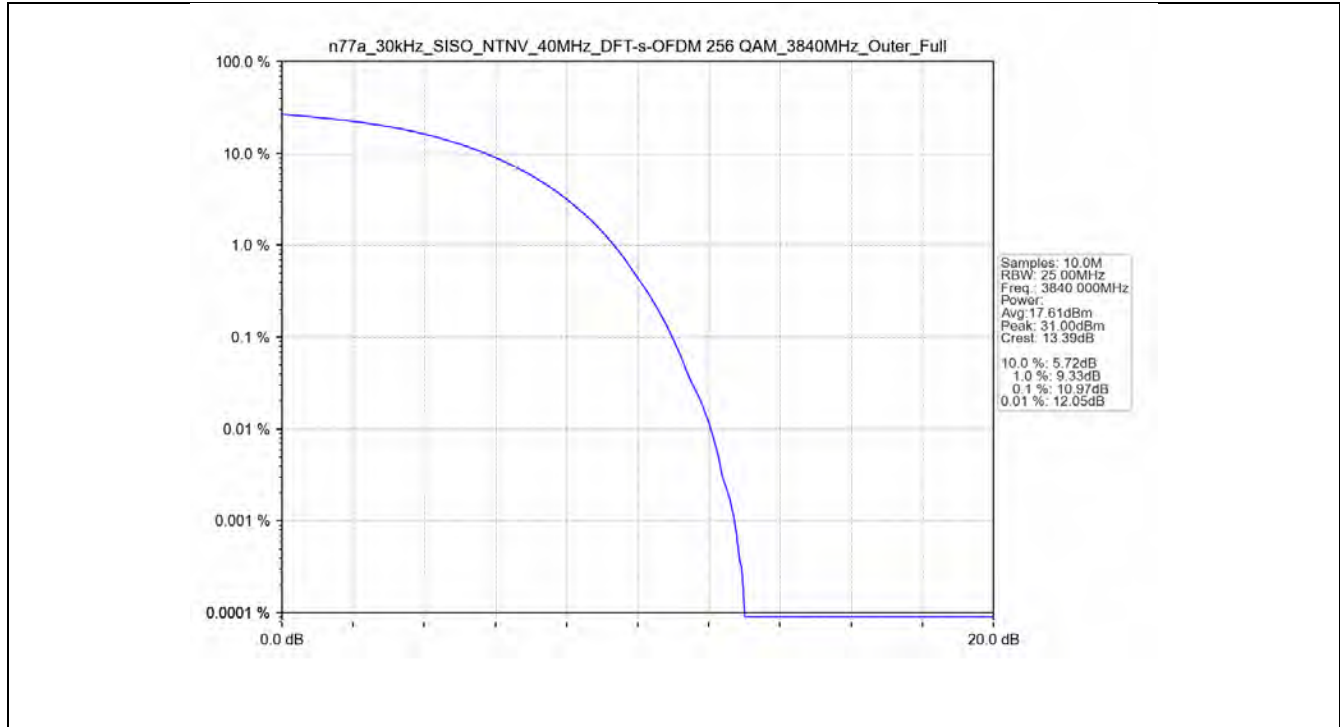


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Report No.: SZCR240100038409

Rev.: 01

Page: 287 of 973



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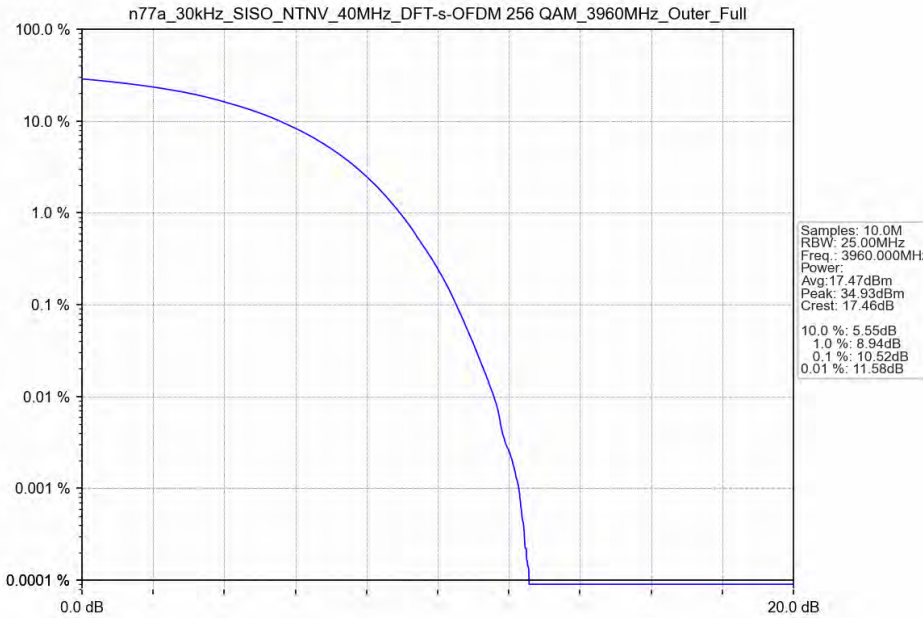
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Report No.: SZCR240100038409

Rev.: 01

Page: 288 of 973

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n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3720MHz_Outer_Full



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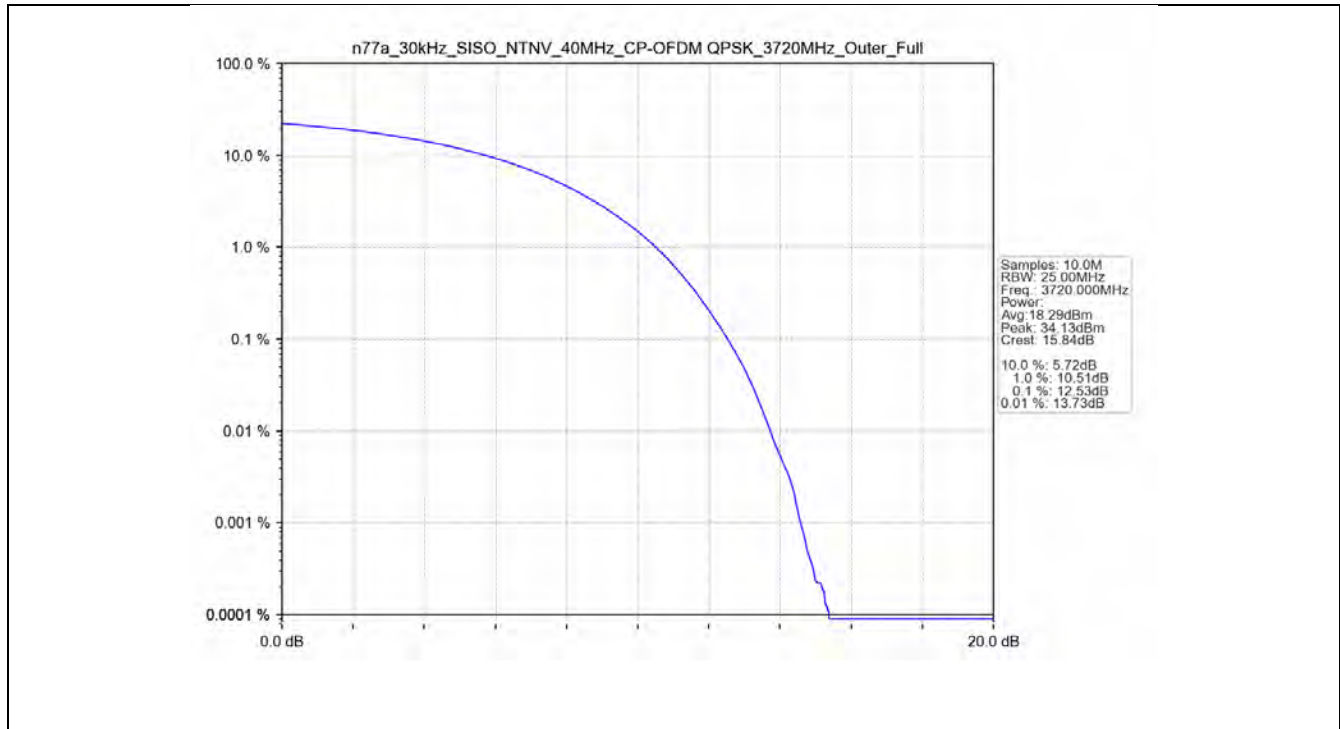


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Rev.: 01

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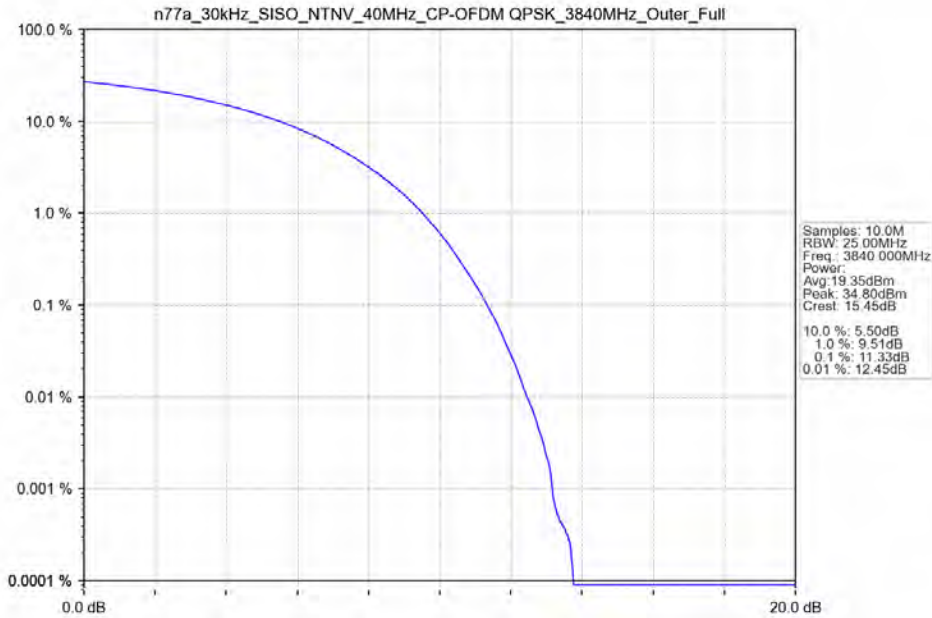
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Report No.: SZCR240100038409

Rev.: 01

Page: 290 of 973

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n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3960MHz_Outer_Full



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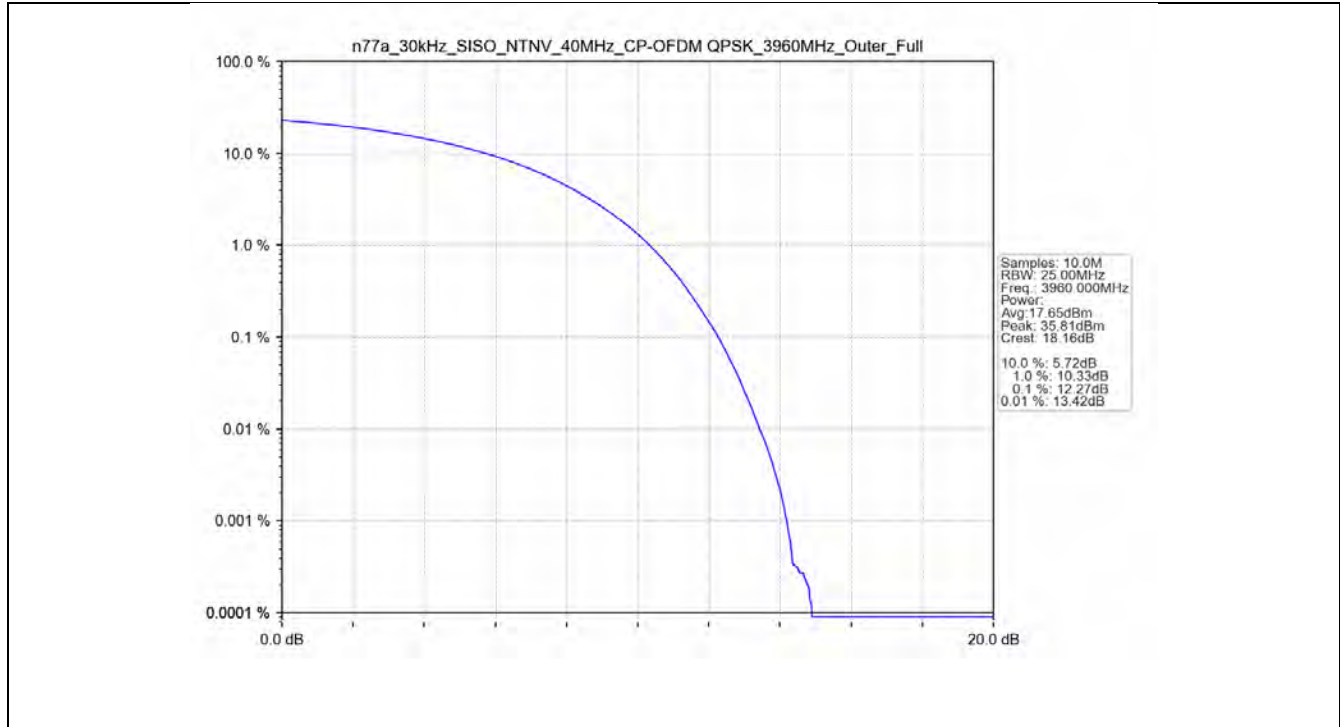


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Report No.: SZCR240100038409

Rev.: 01

Page: 291 of 973



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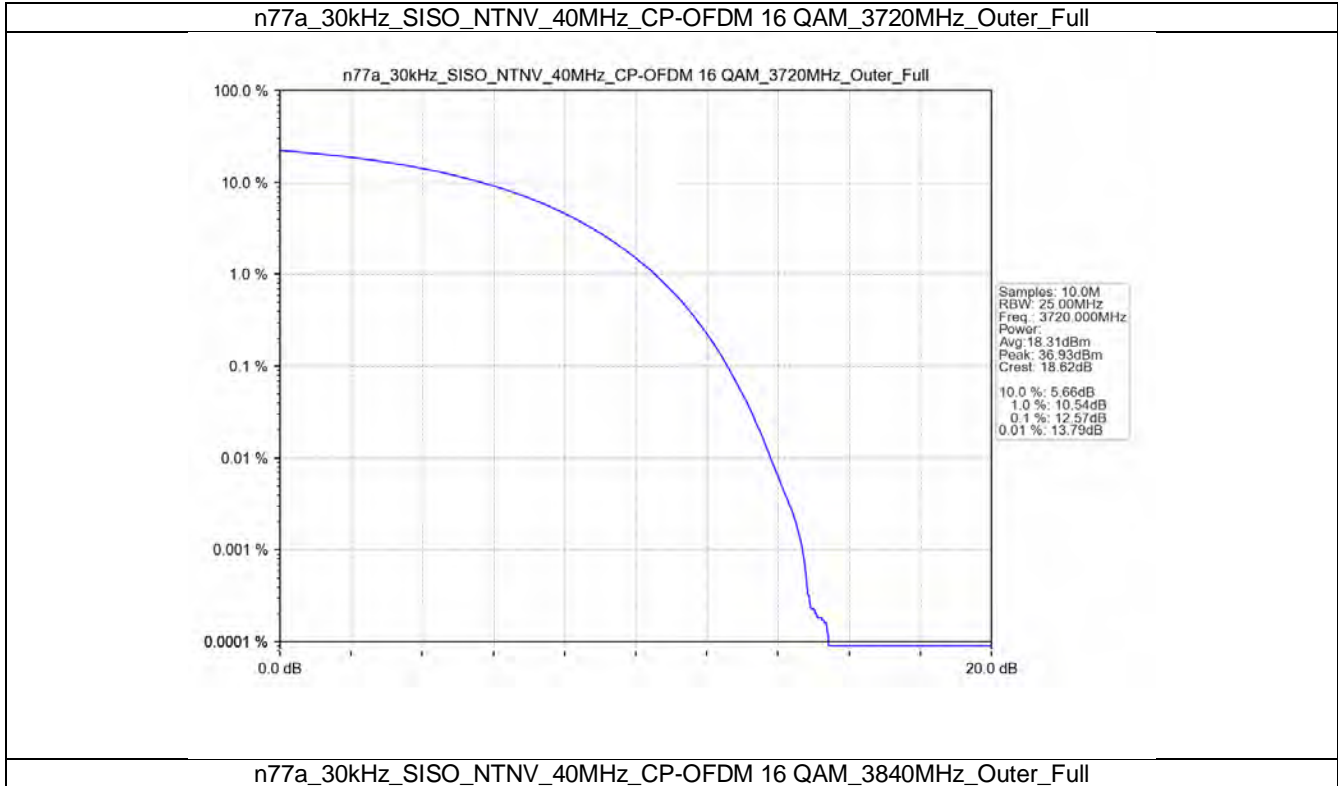


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Rev.: 01

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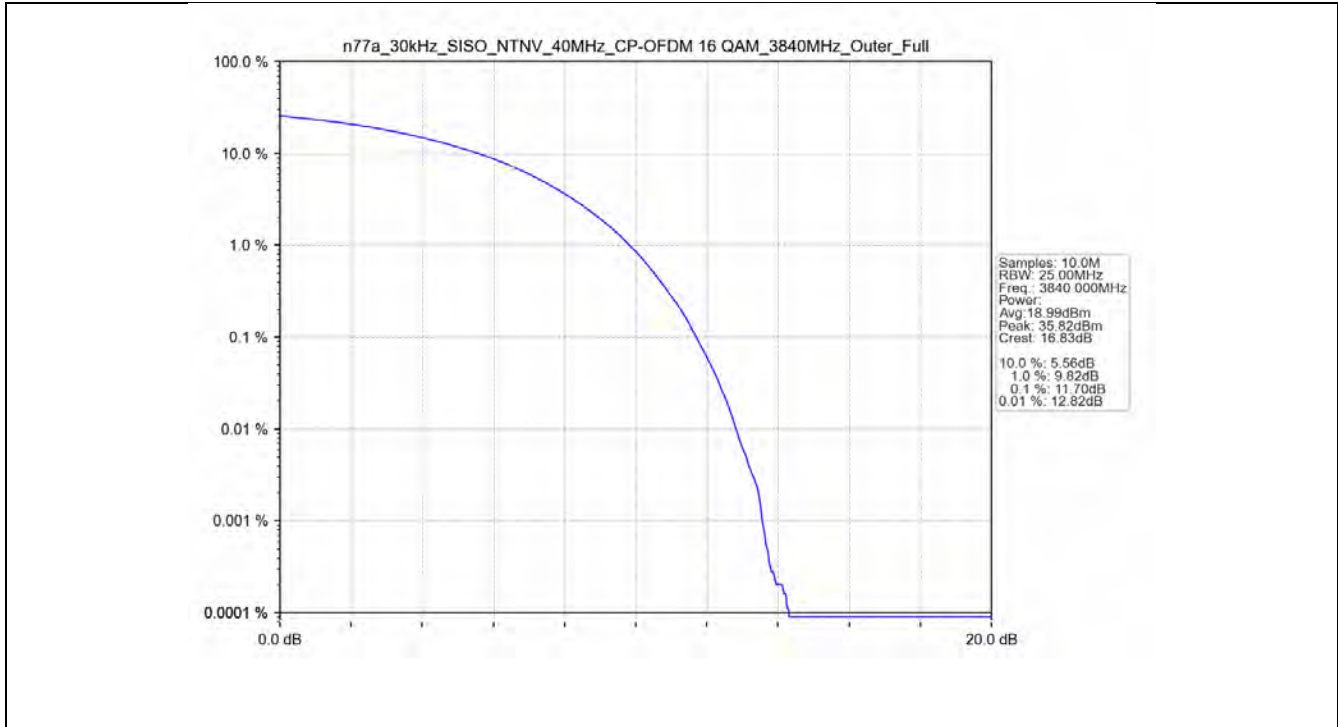


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Report No.: SZCR240100038409

Rev.: 01

Page: 293 of 973



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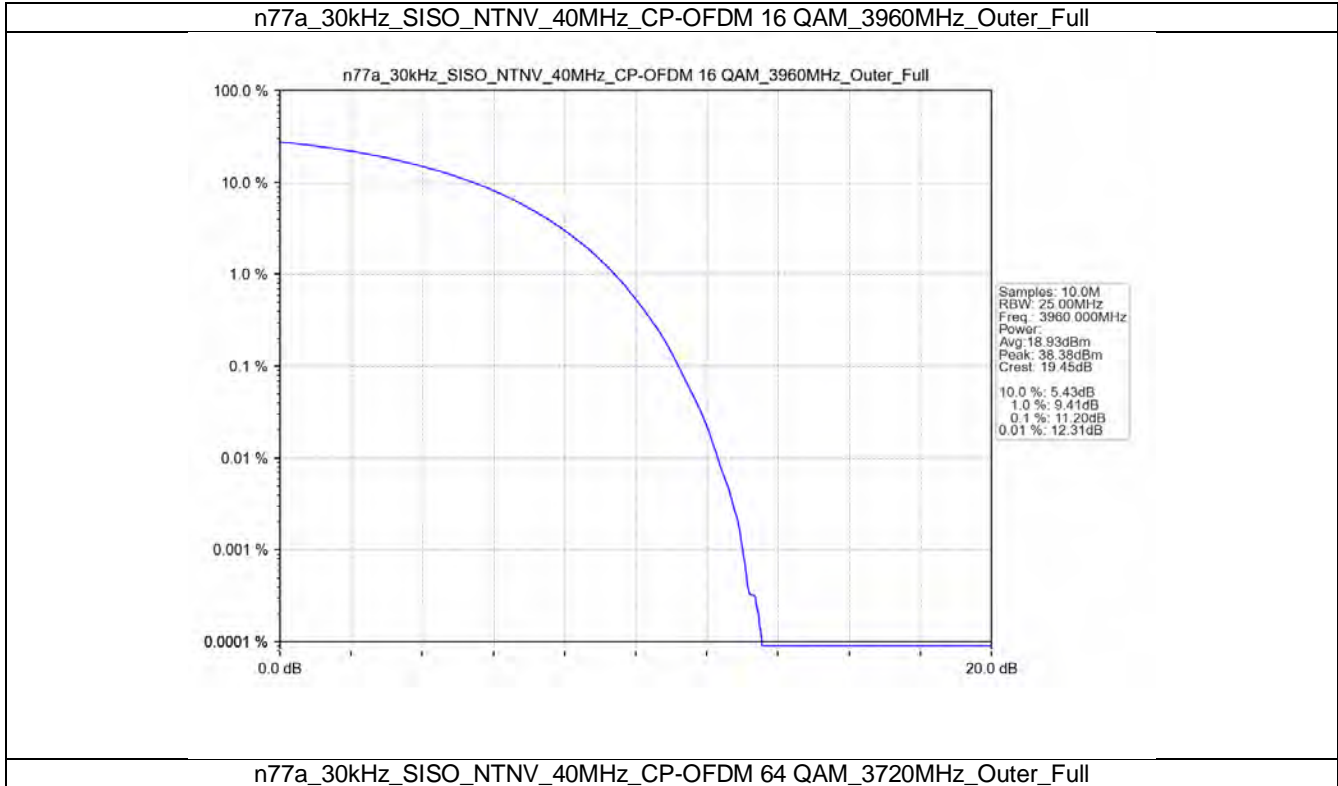


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Report No.: SZCR240100038409

Rev.: 01

Page: 294 of 973



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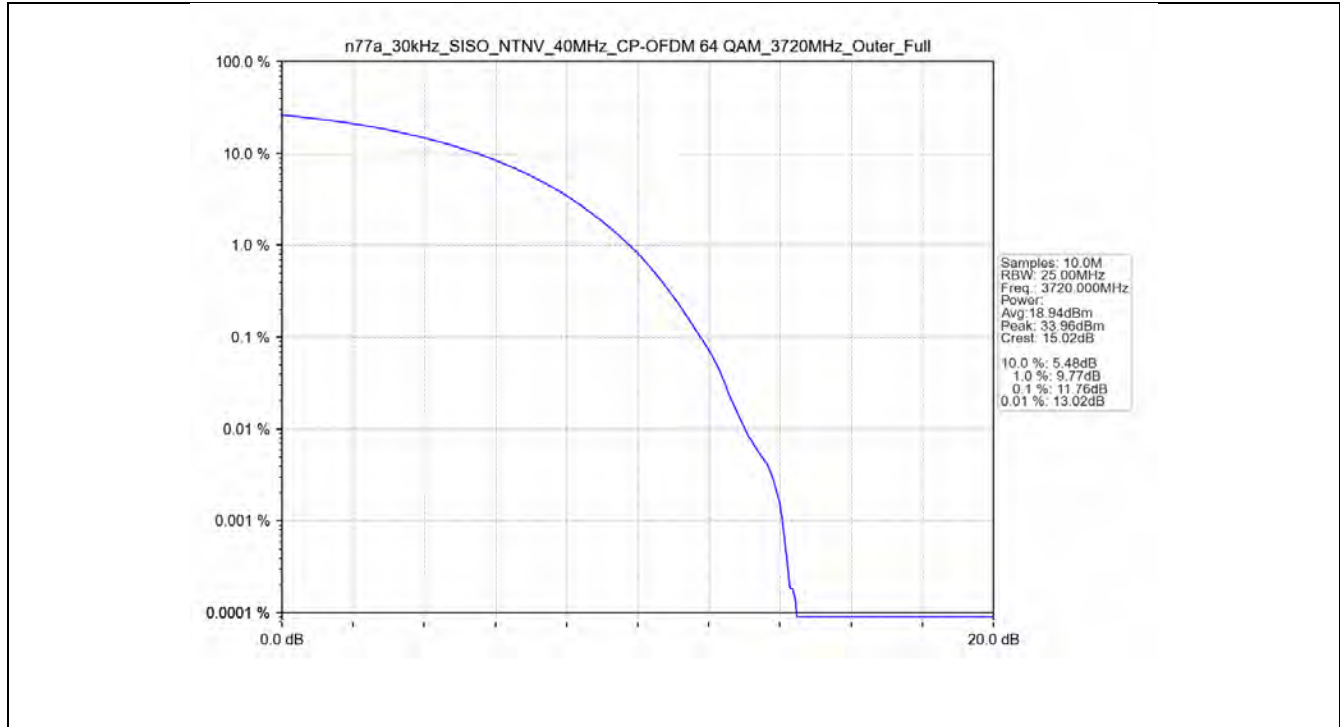


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Report No.: SZCR240100038409

Rev.: 01

Page: 295 of 973



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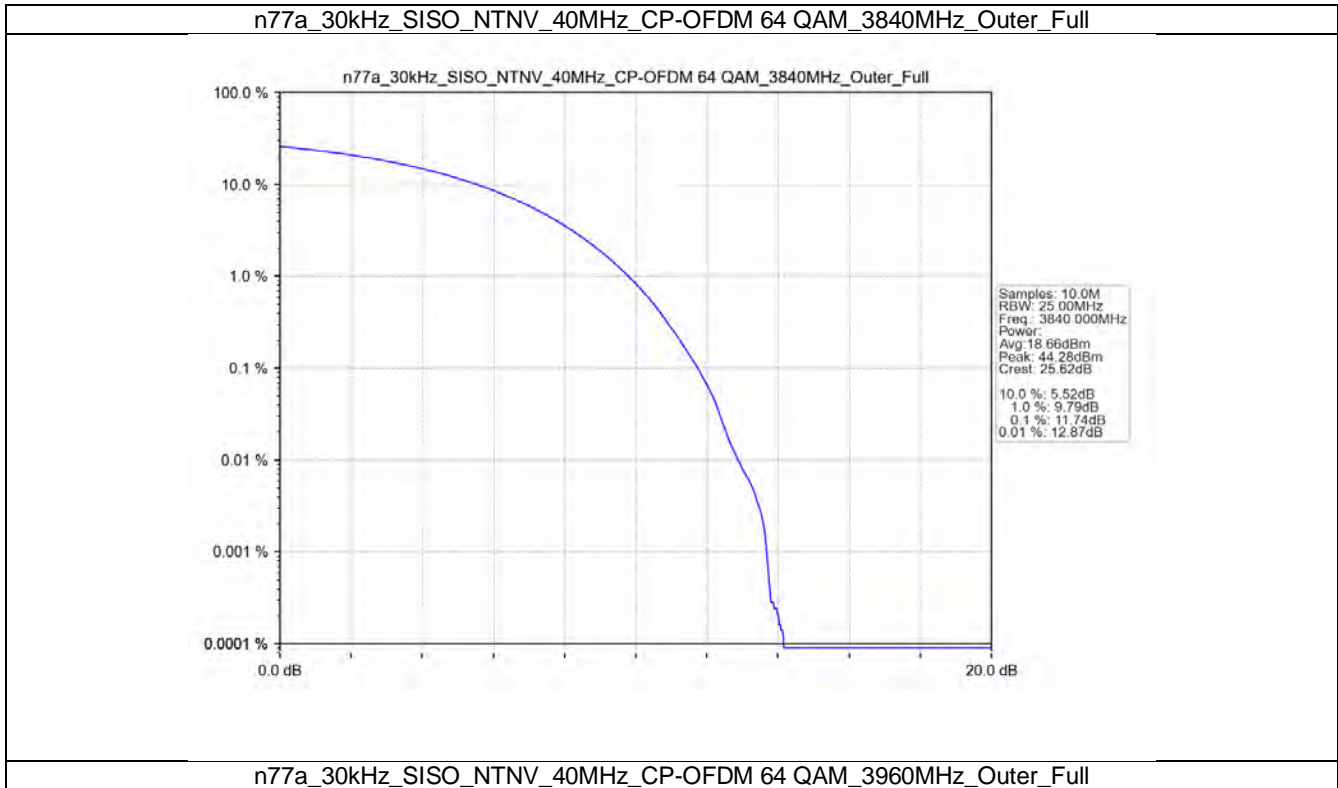


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Report No.: SZCR240100038409

Rev.: 01

Page: 296 of 973



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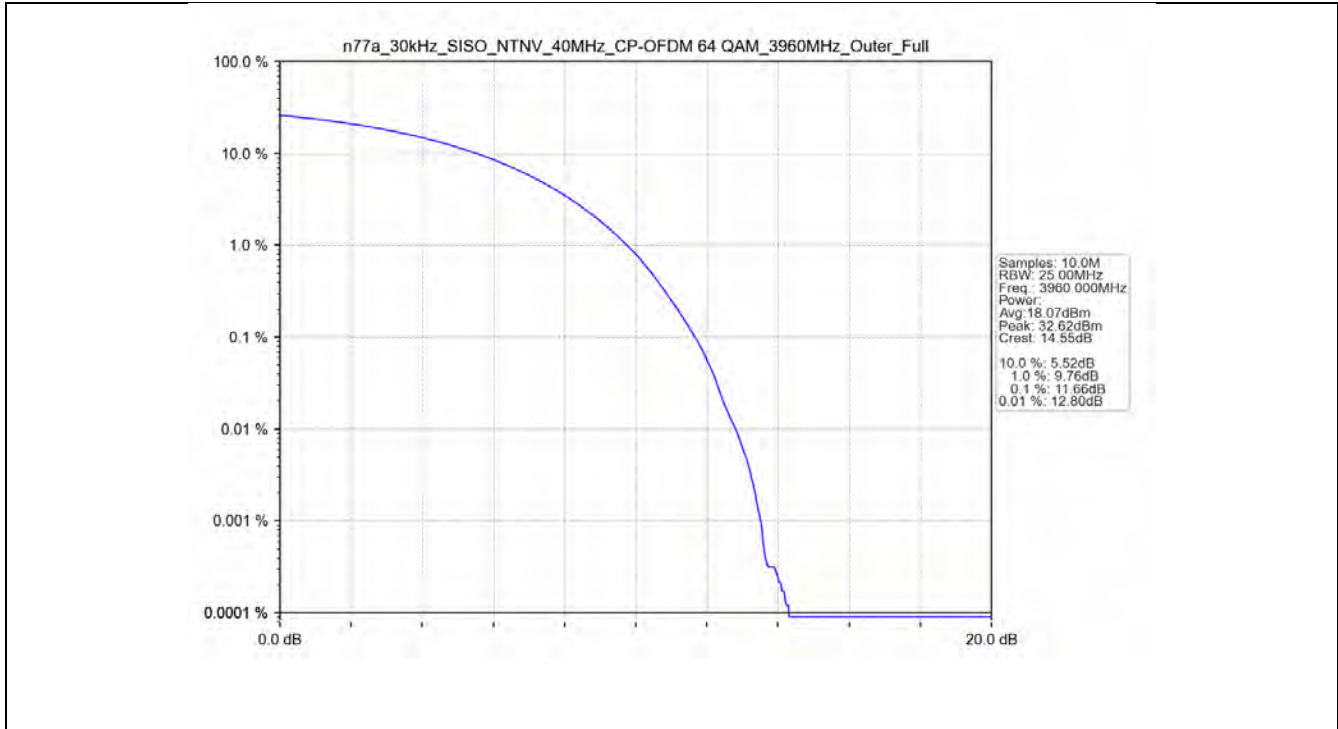


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Report No.: SZCR240100038409

Rev.: 01

Page: 297 of 973



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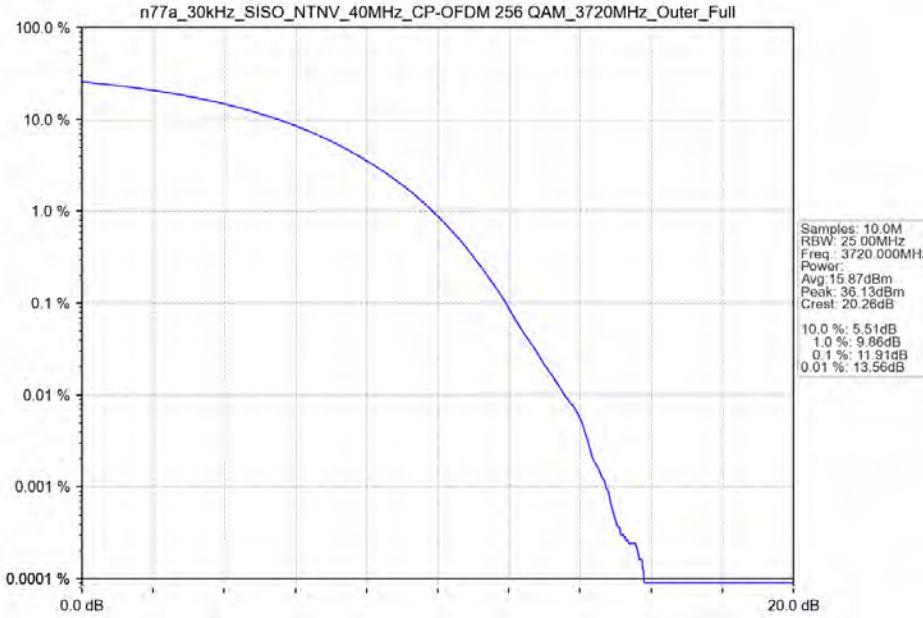
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Report No.: SZCR240100038409

Rev.: 01

Page: 298 of 973

n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3720MHz_Outer_Full



n77a_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3840MHz_Outer_Full



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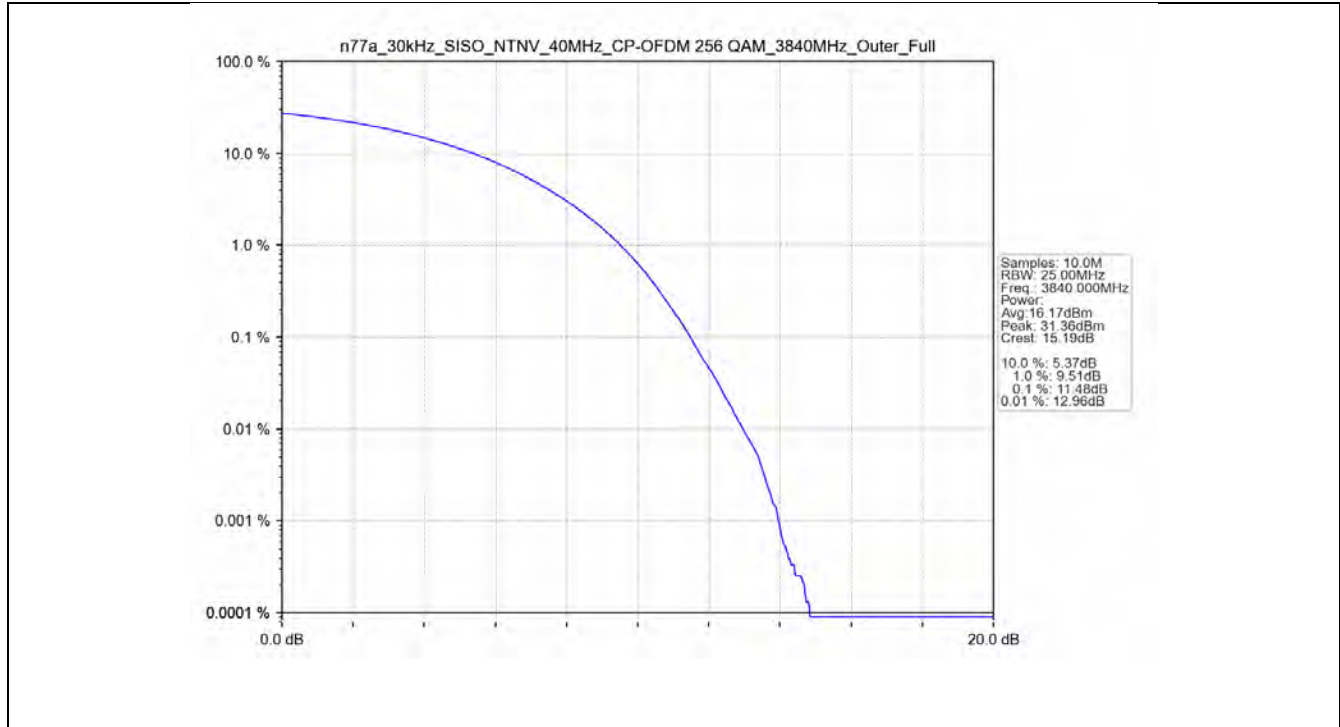


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Rev.: 01

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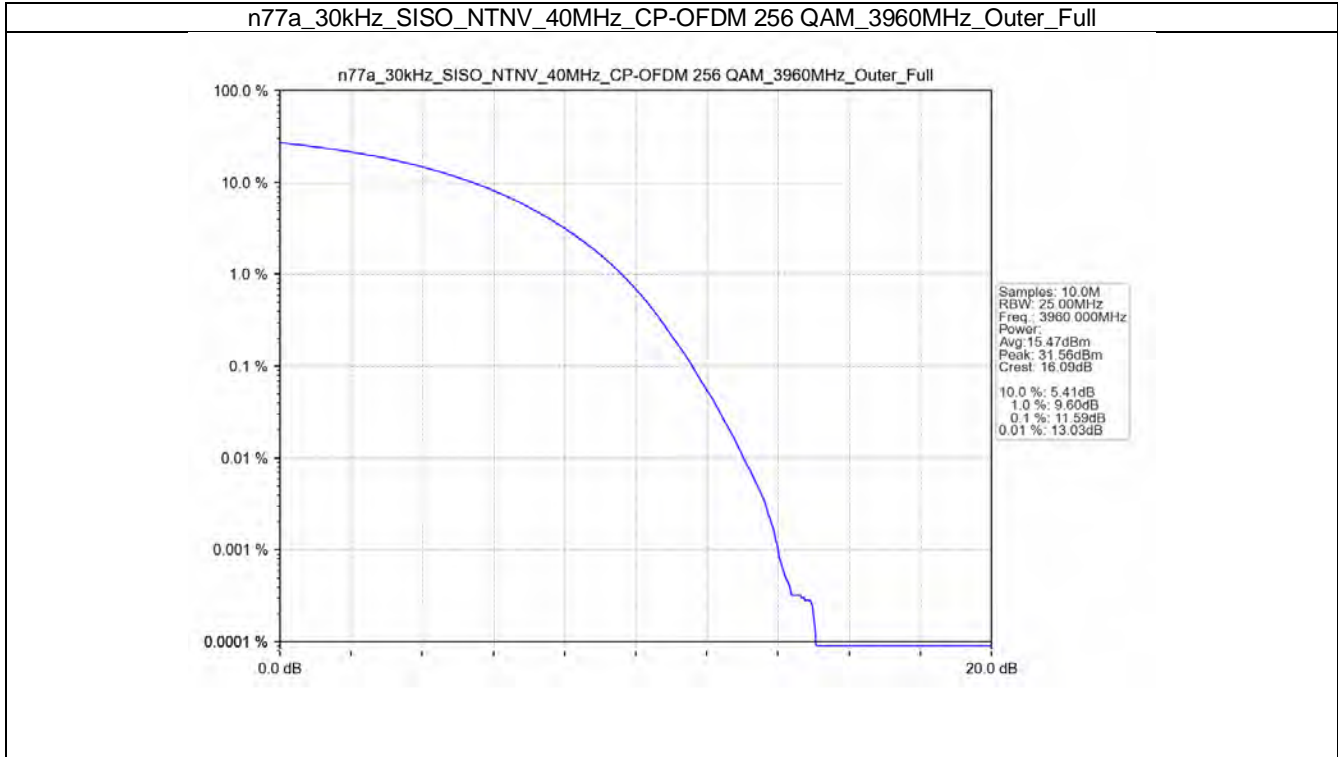
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Report No.: SZCR240100038409

Rev.: 01

Page: 300 of 973

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Report No.: SZCR240100038409

Rev.: 01

Page: 301 of 973

4.4 30k_SISO_60MHz_NTNV

4.4.1 Test Result

5G NR n77a SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3730.02	Outer_Full	10.19	/	/	<=13	Pass
	3840	Outer_Full	11.09	/	/	<=13	Pass
	3949.98	Outer_Full	11.20	/	/	<=13	Pass
DFT-s-OFDM QPSK	3730.02	Outer_Full	11.05	/	/	<=13	Pass
	3840	Outer_Full	10.25	/	/	<=13	Pass
	3949.98	Outer_Full	10.69	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3730.02	Outer_Full	11.58	/	/	<=13	Pass
	3840	Outer_Full	11.06	/	/	<=13	Pass
	3949.98	Outer_Full	12.19	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3730.02	Outer_Full	11.47	/	/	<=13	Pass
	3840	Outer_Full	10.82	/	/	<=13	Pass
	3949.98	Outer_Full	12.13	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3730.02	Outer_Full	10.74	/	/	<=13	Pass
	3840	Outer_Full	10.79	/	/	<=13	Pass
	3949.98	Outer_Full	11.03	/	/	<=13	Pass
CP-OFDM QPSK	3730.02	Outer_Full	11.94	/	/	<=13	Pass
	3840	Outer_Full	12.15	/	/	<=13	Pass
	3949.98	Outer_Full	12.29	/	/	<=13	Pass
CP-OFDM 16 QAM	3730.02	Outer_Full	11.49	/	/	<=13	Pass
	3840	Outer_Full	11.34	/	/	<=13	Pass
	3949.98	Outer_Full	11.91	/	/	<=13	Pass
CP-OFDM 64 QAM	3730.02	Outer_Full	12.09	/	/	<=13	Pass
	3840	Outer_Full	11.39	/	/	<=13	Pass
	3949.98	Outer_Full	11.73	/	/	<=13	Pass
CP-OFDM 256 QAM	3730.02	Outer_Full	11.61	/	/	<=13	Pass
	3840	Outer_Full	11.85	/	/	<=13	Pass
	3949.98	Outer_Full	12.01	/	/	<=13	Pass



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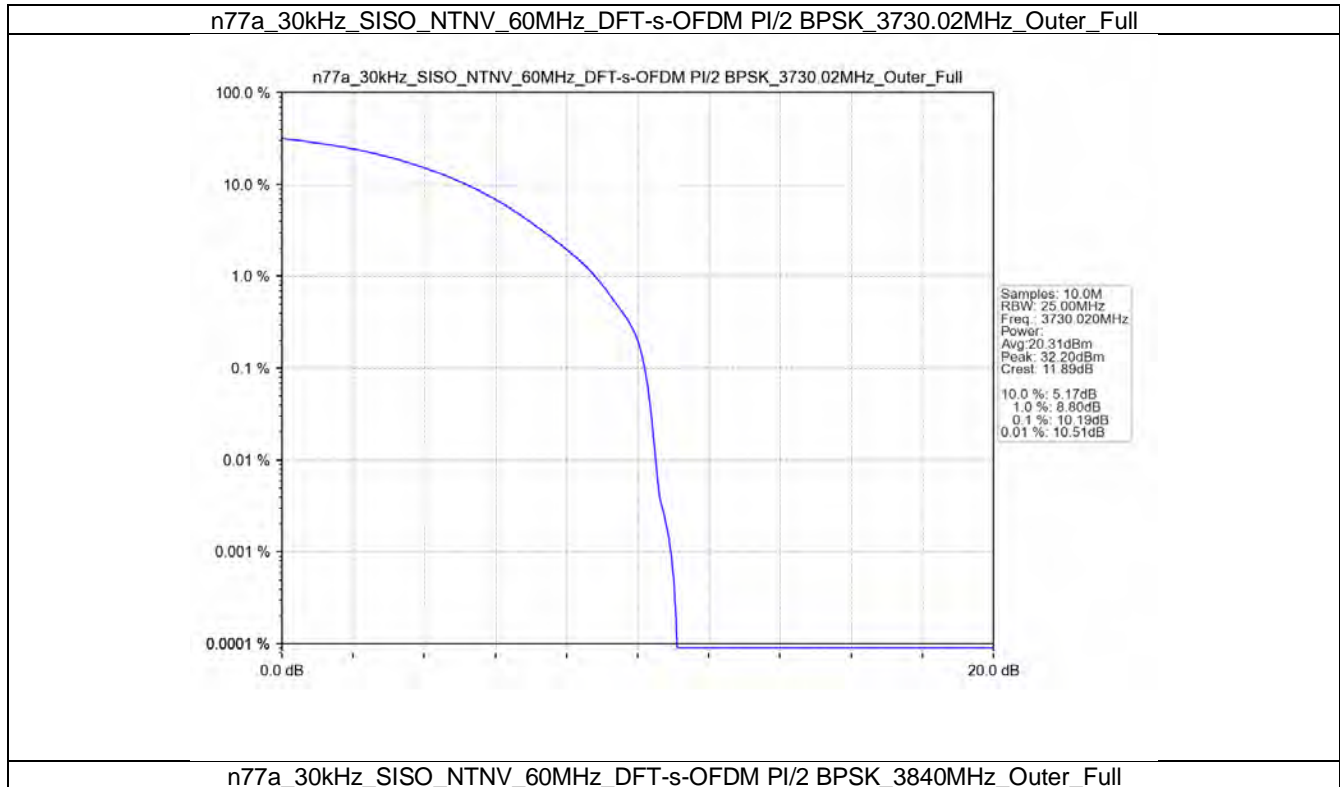
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Report No.: SZCR240100038409

Rev.: 01

Page: 302 of 973

4.4.2 Test Graph



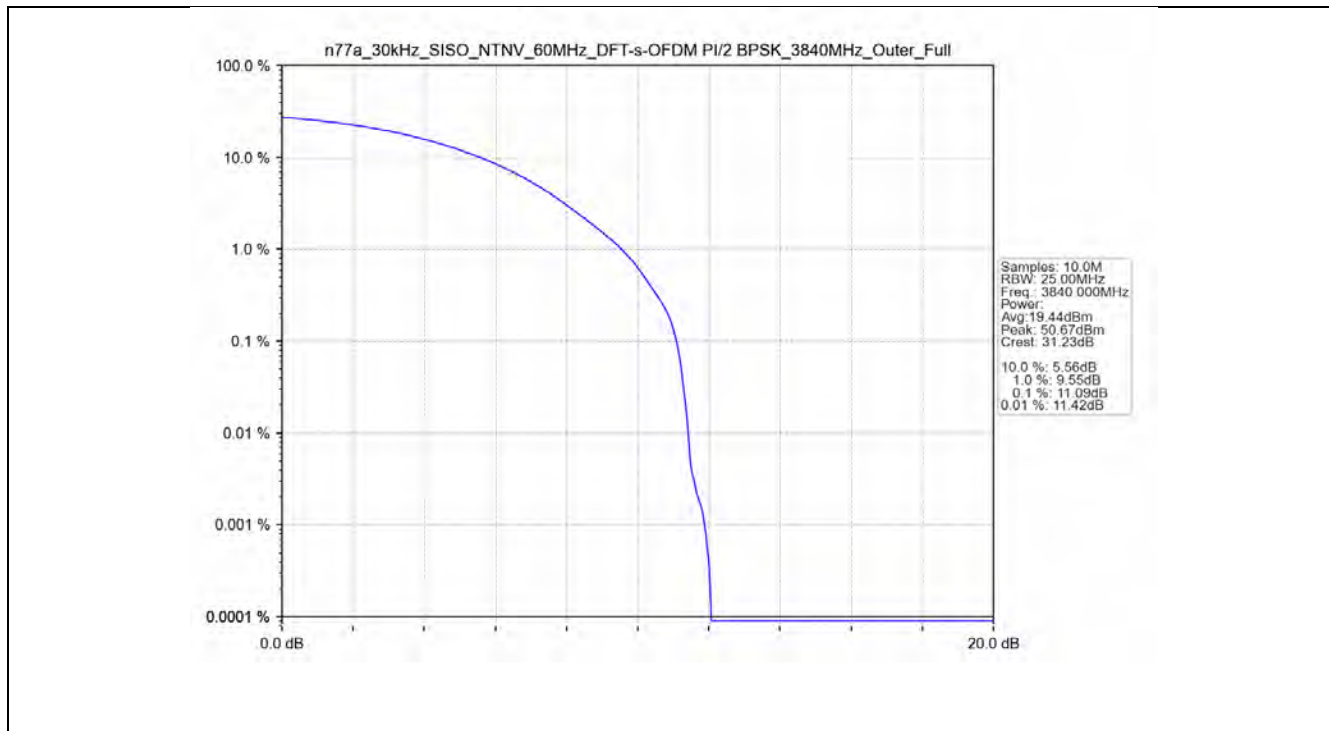
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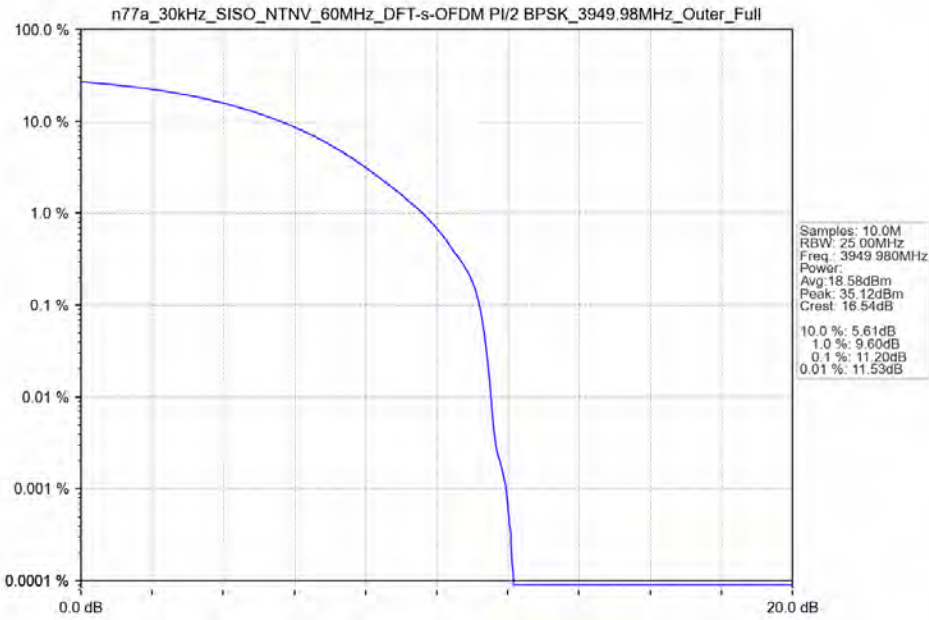
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Report No.: SZCR240100038409

Rev.: 01

Page: 304 of 973

n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_3949.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3730.02MHz_Outer_Full



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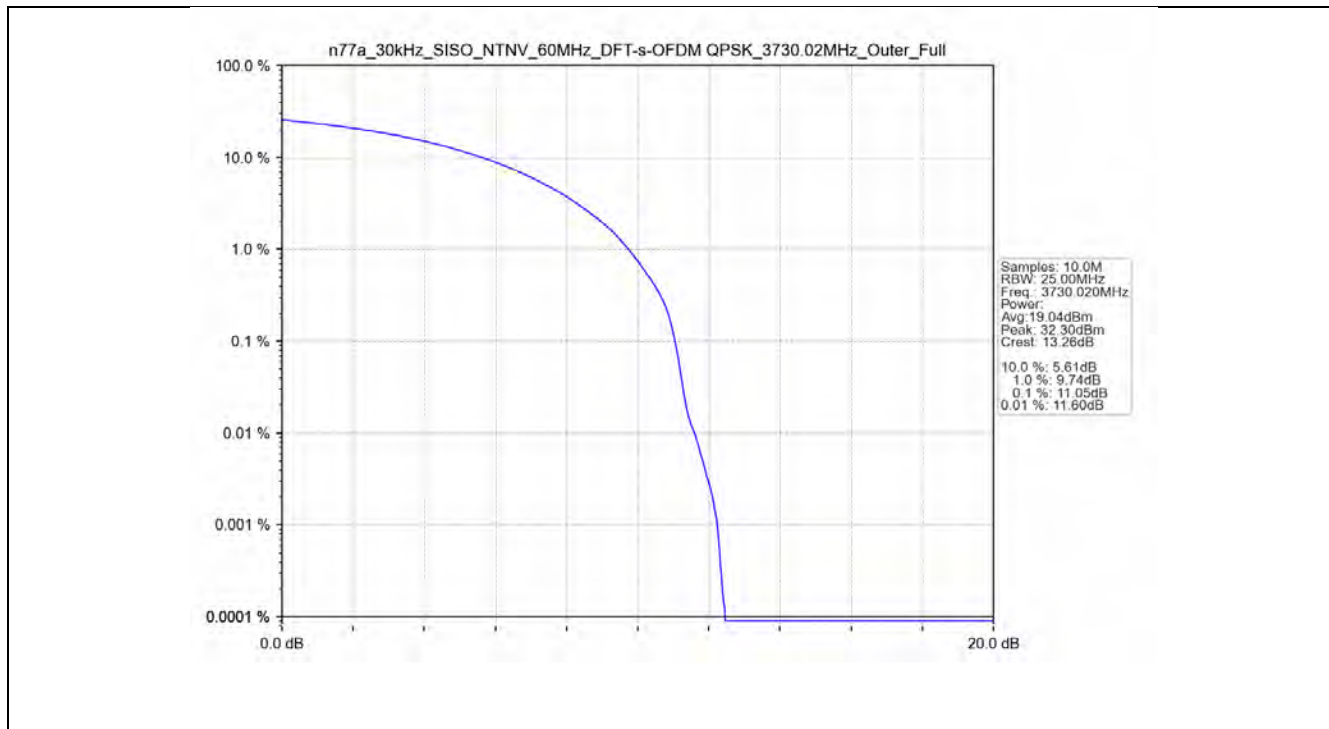
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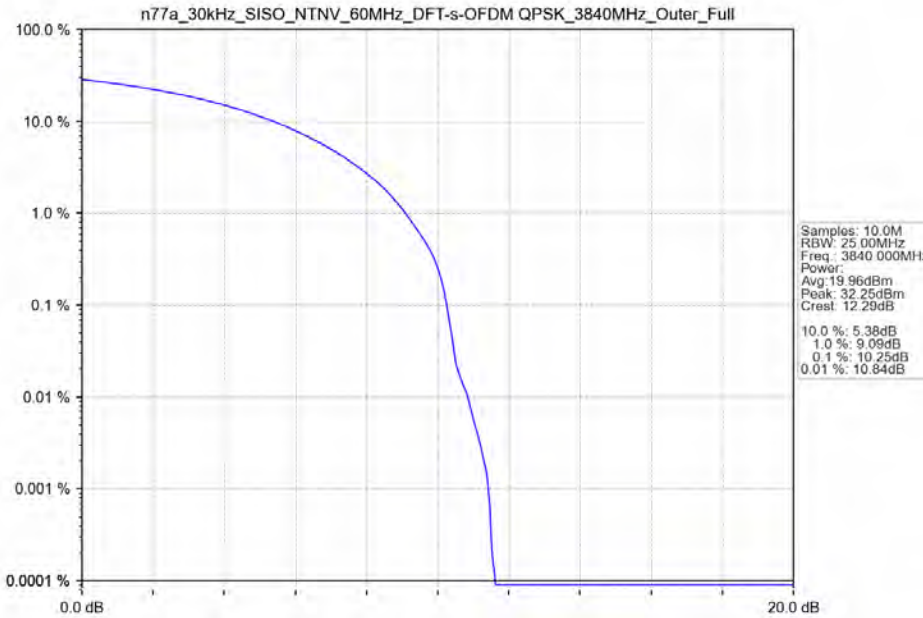
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Report No.: SZCR240100038409

Rev.: 01

Page: 306 of 973

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n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3949.98MHz_Outer_Full



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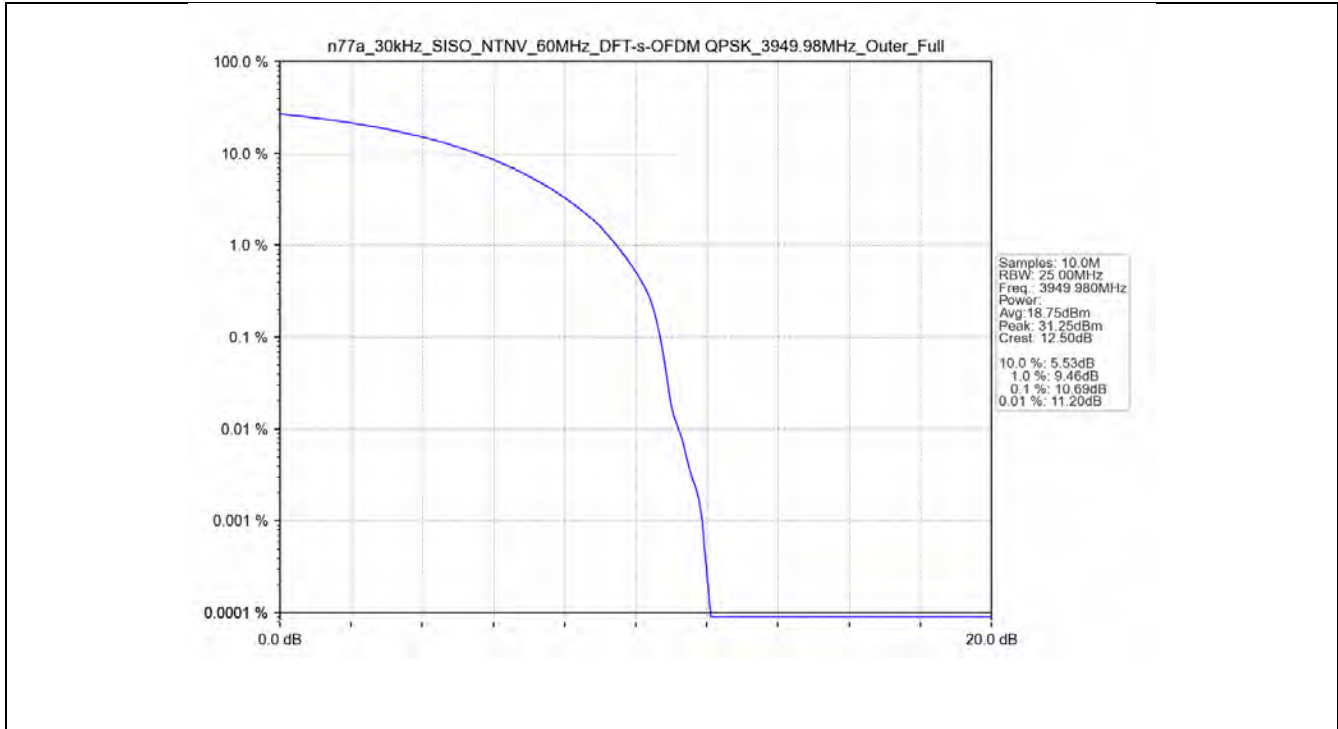


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Rev.: 01

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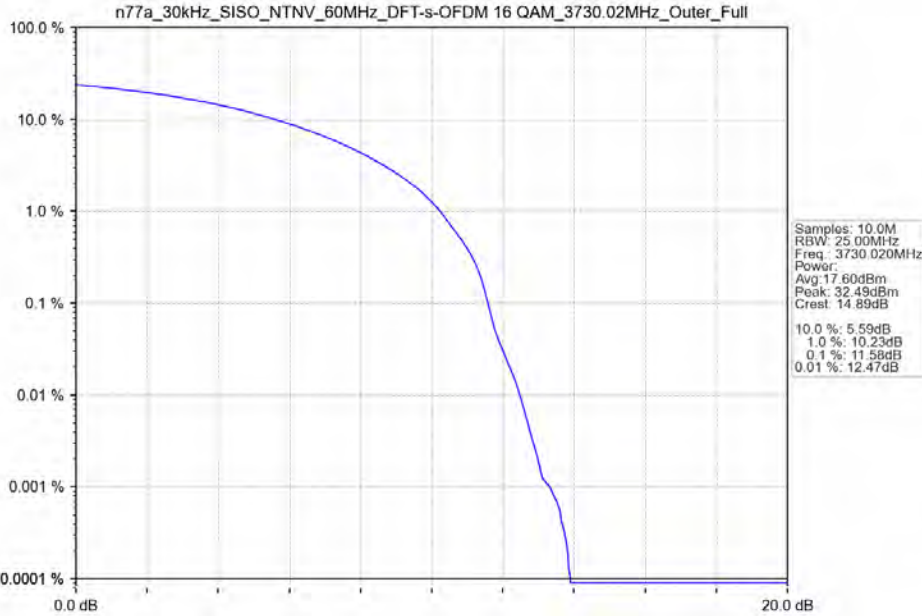
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Report No.: SZCR240100038409

Rev.: 01

Page: 308 of 973

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n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_16_QAM_3840MHz_Outer_Full



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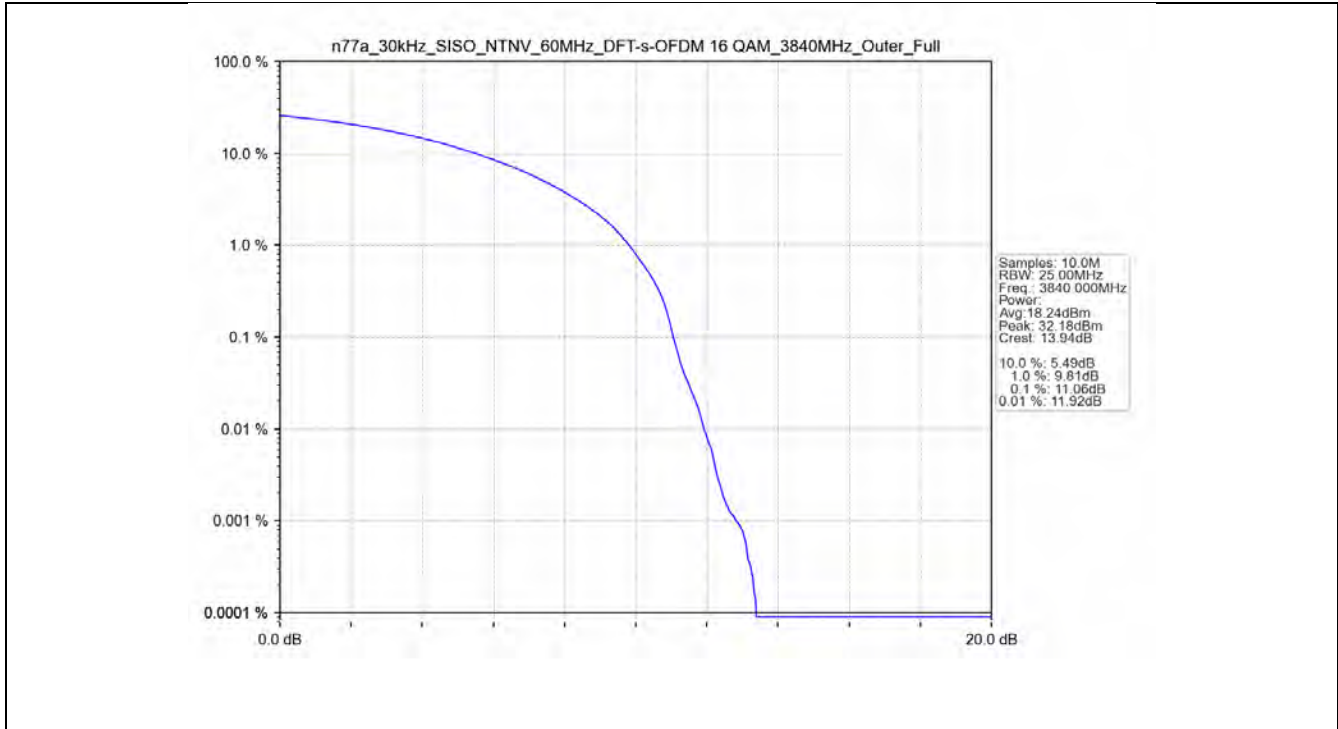


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Report No.: SZCR240100038409

Rev.: 01

Page: 309 of 973



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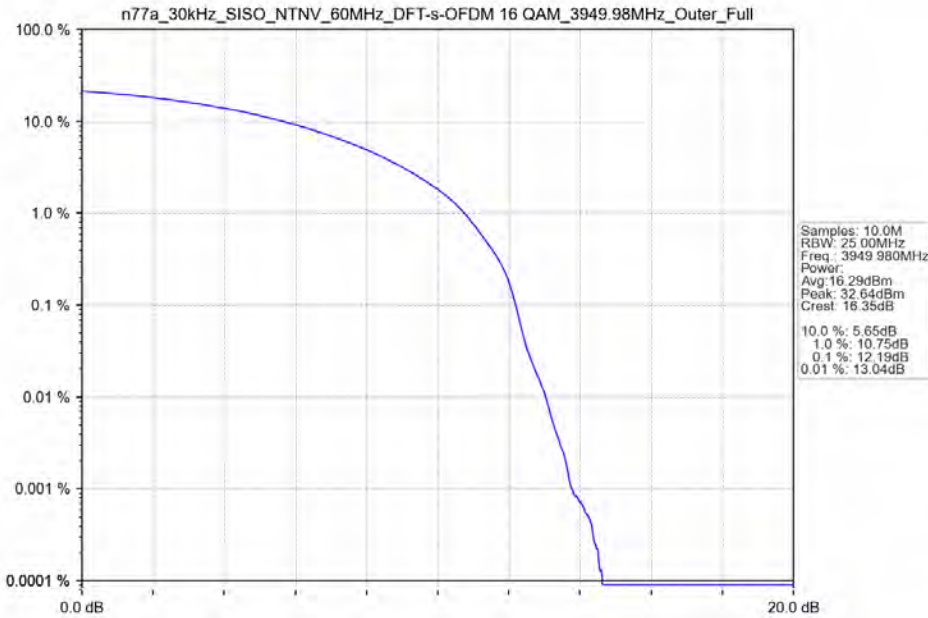
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Report No.: SZCR240100038409

Rev.: 01

Page: 310 of 973

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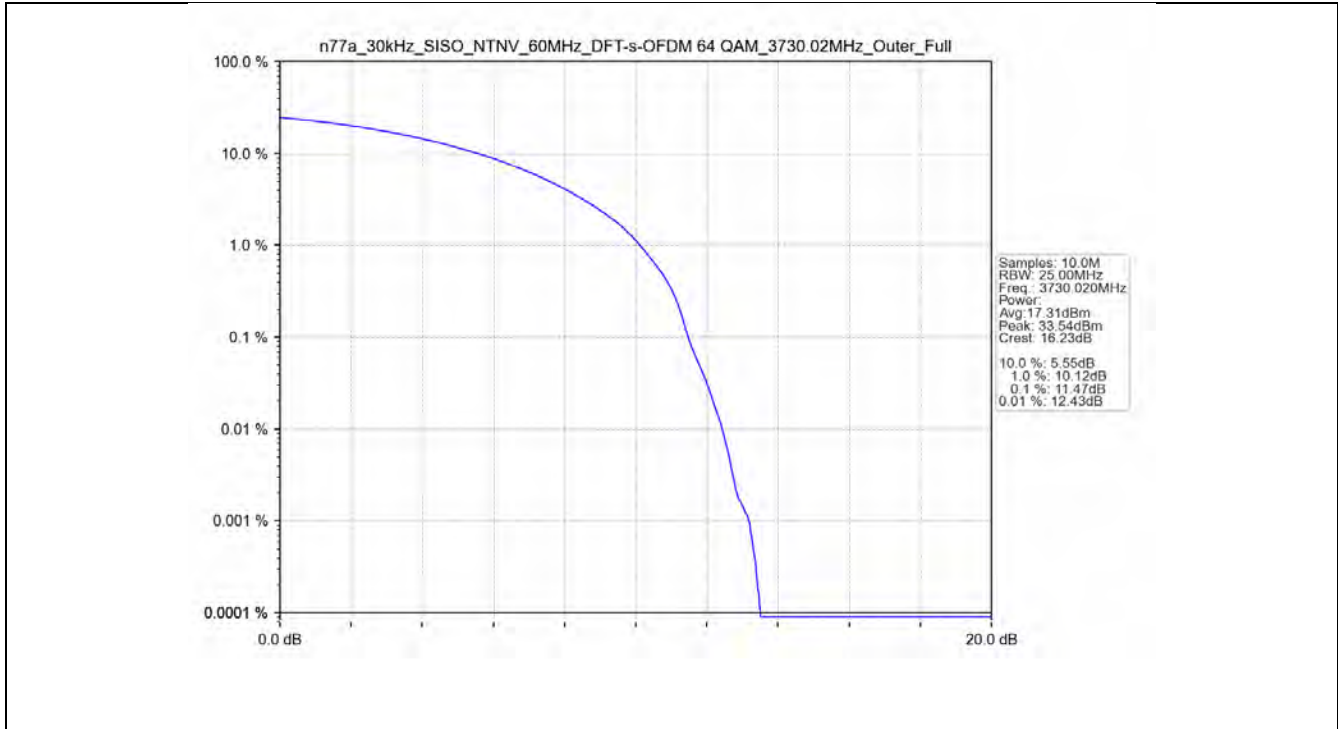


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Report No.: SZCR240100038409

Rev.: 01

Page: 311 of 973



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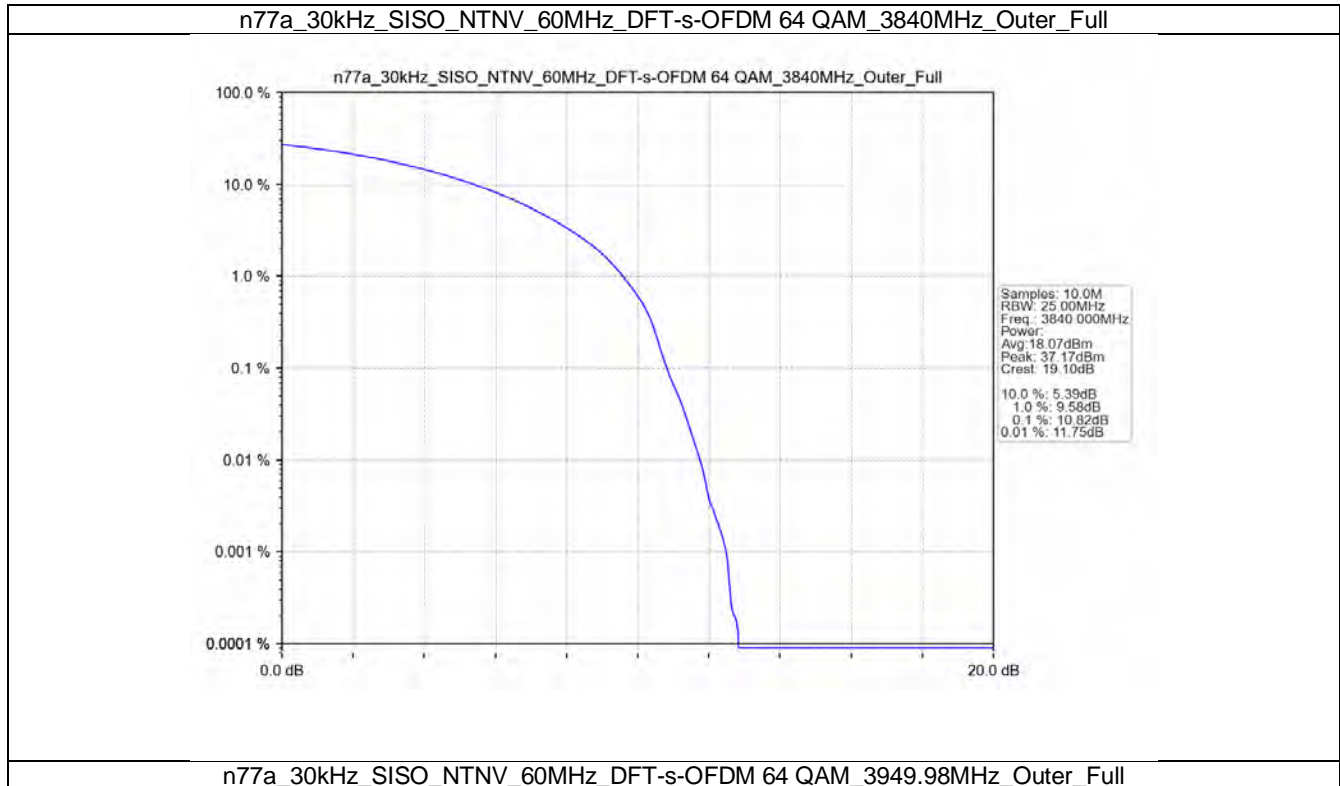


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Report No.: SZCR240100038409

Rev.: 01

Page: 312 of 973



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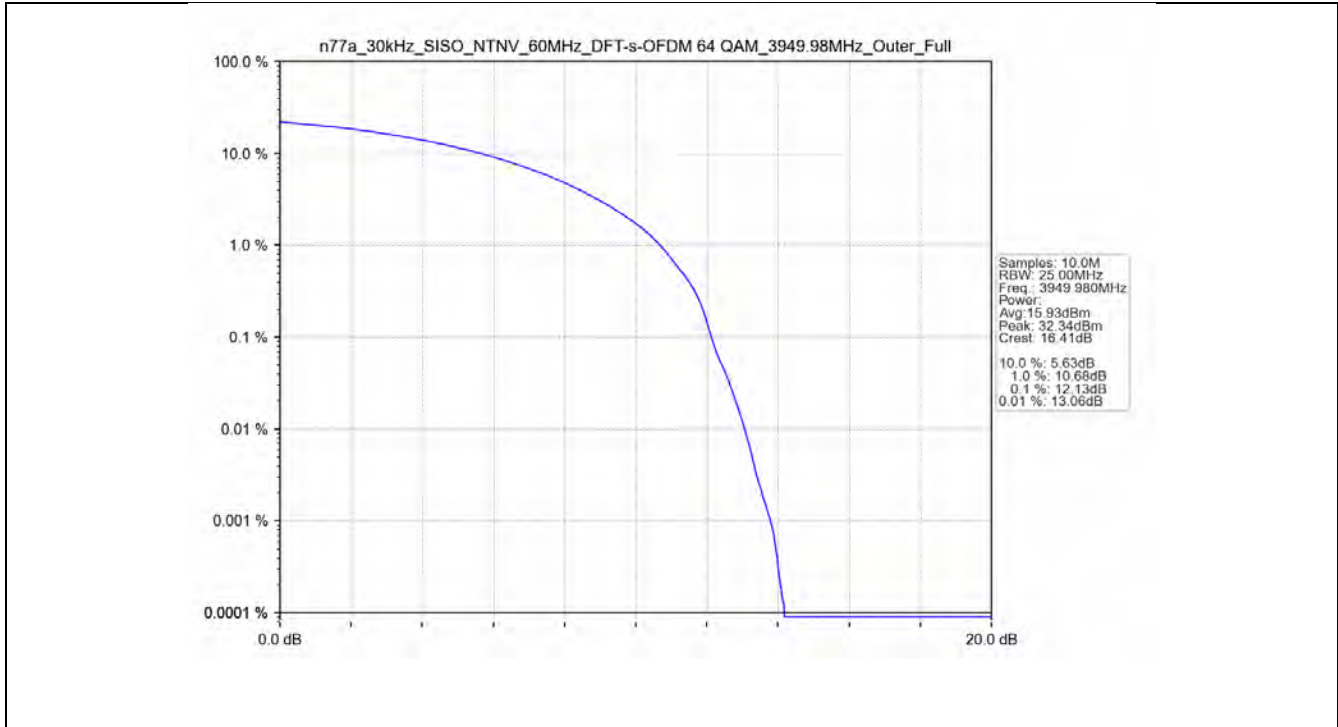


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Rev.: 01

Page: 313 of 973



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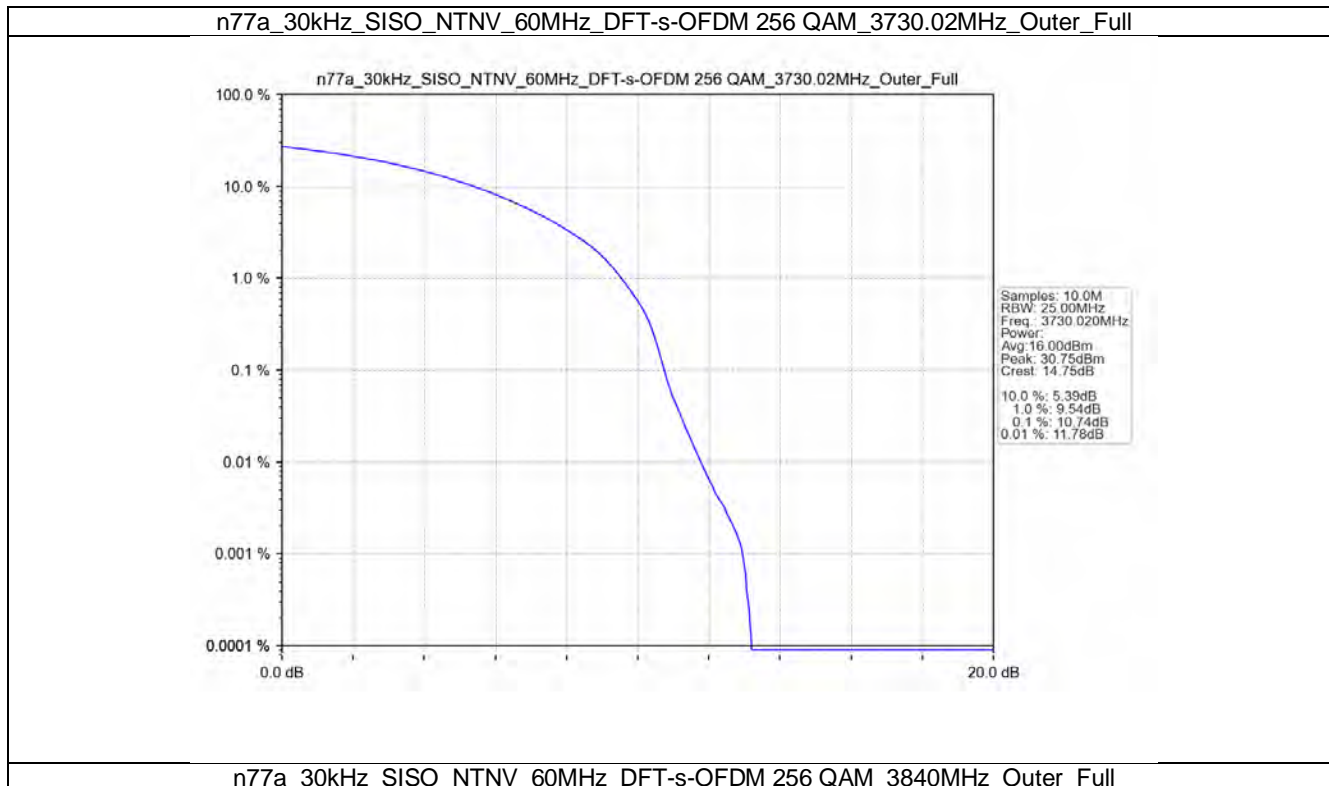
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Rev.: 01
Page: 314 of 973



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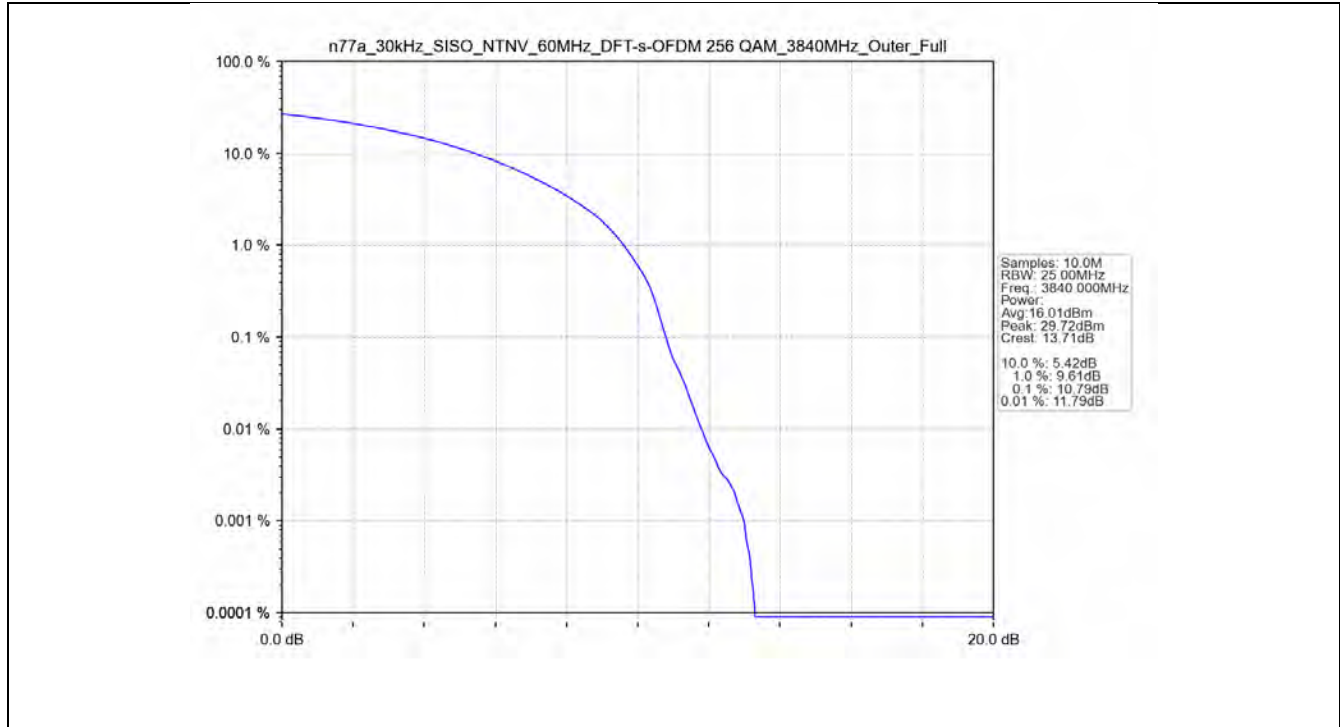


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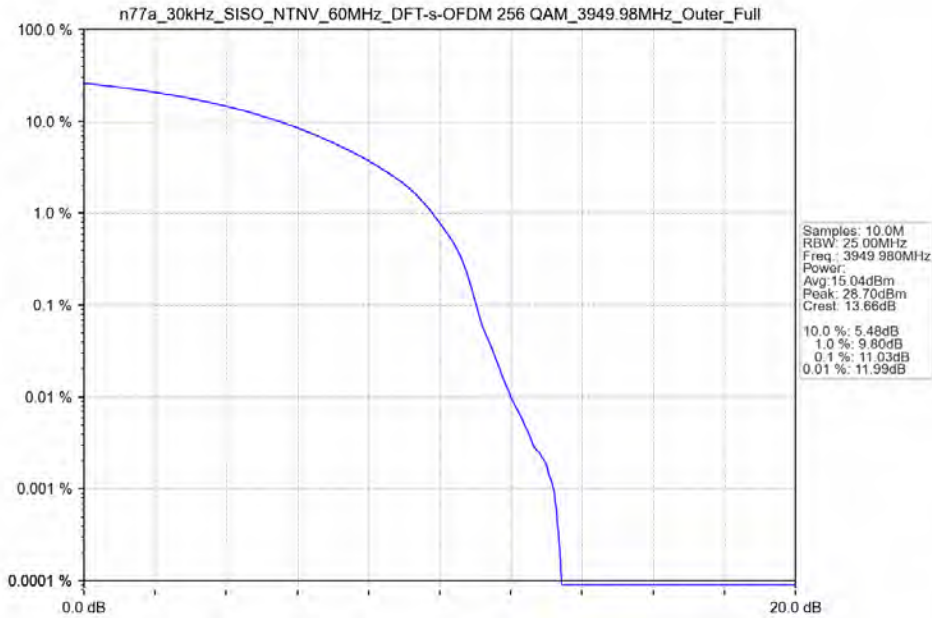
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Report No.: SZCR240100038409

Rev.: 01

Page: 316 of 973

n77a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_3949.98MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_3730.02MHz_Outer_Full



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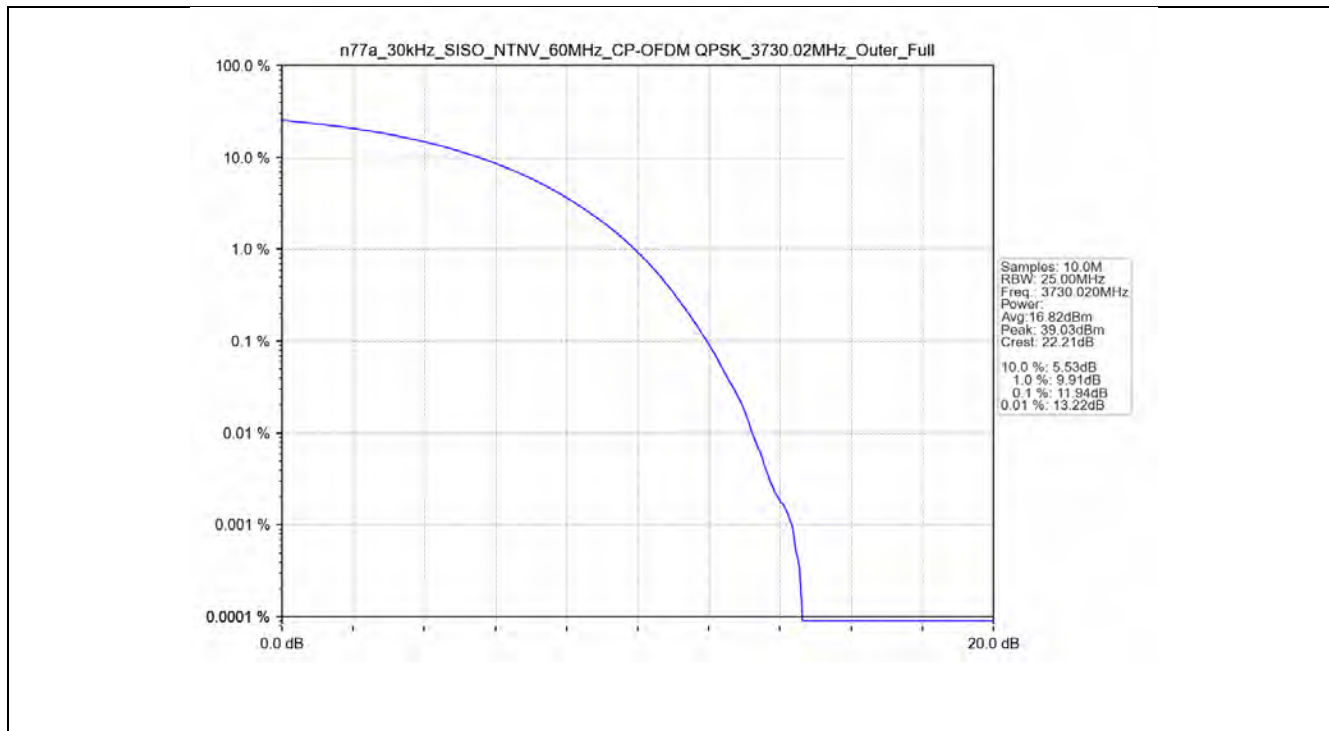
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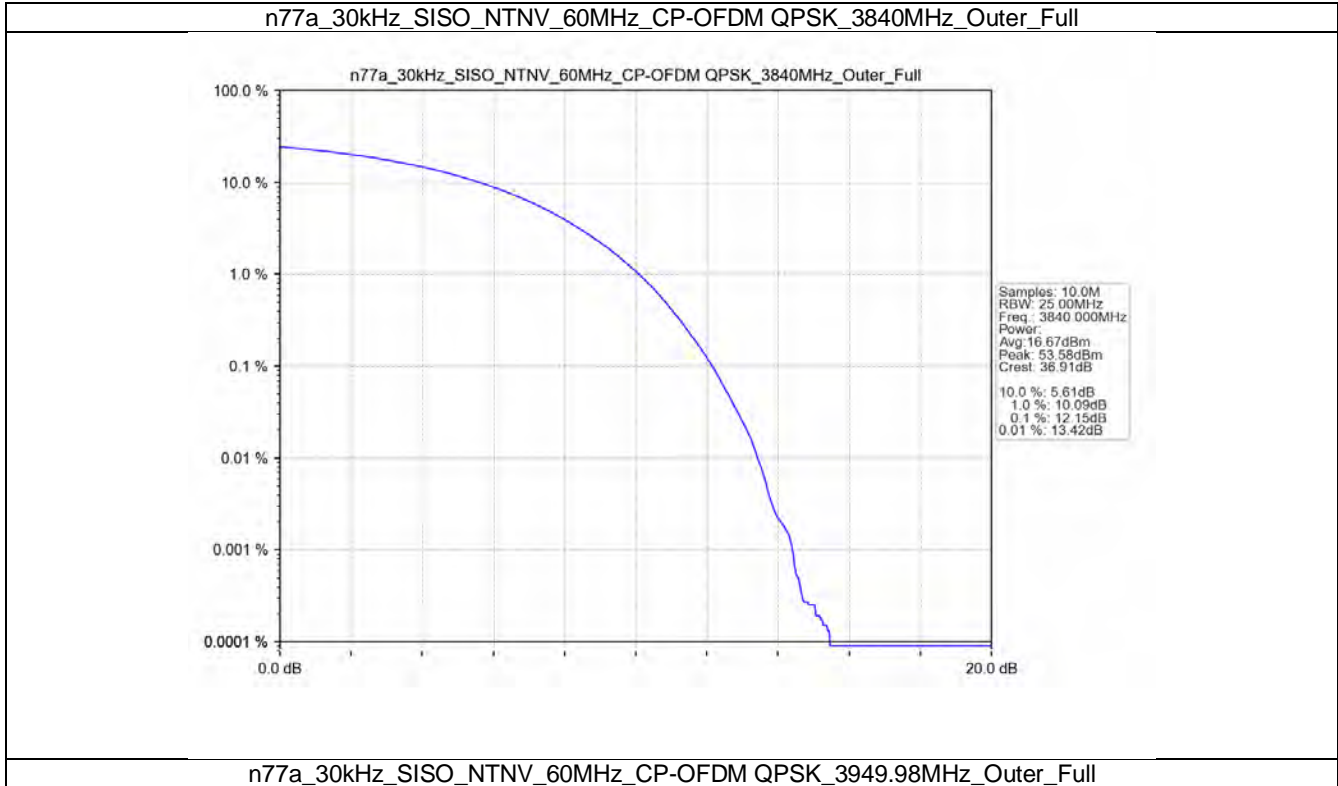


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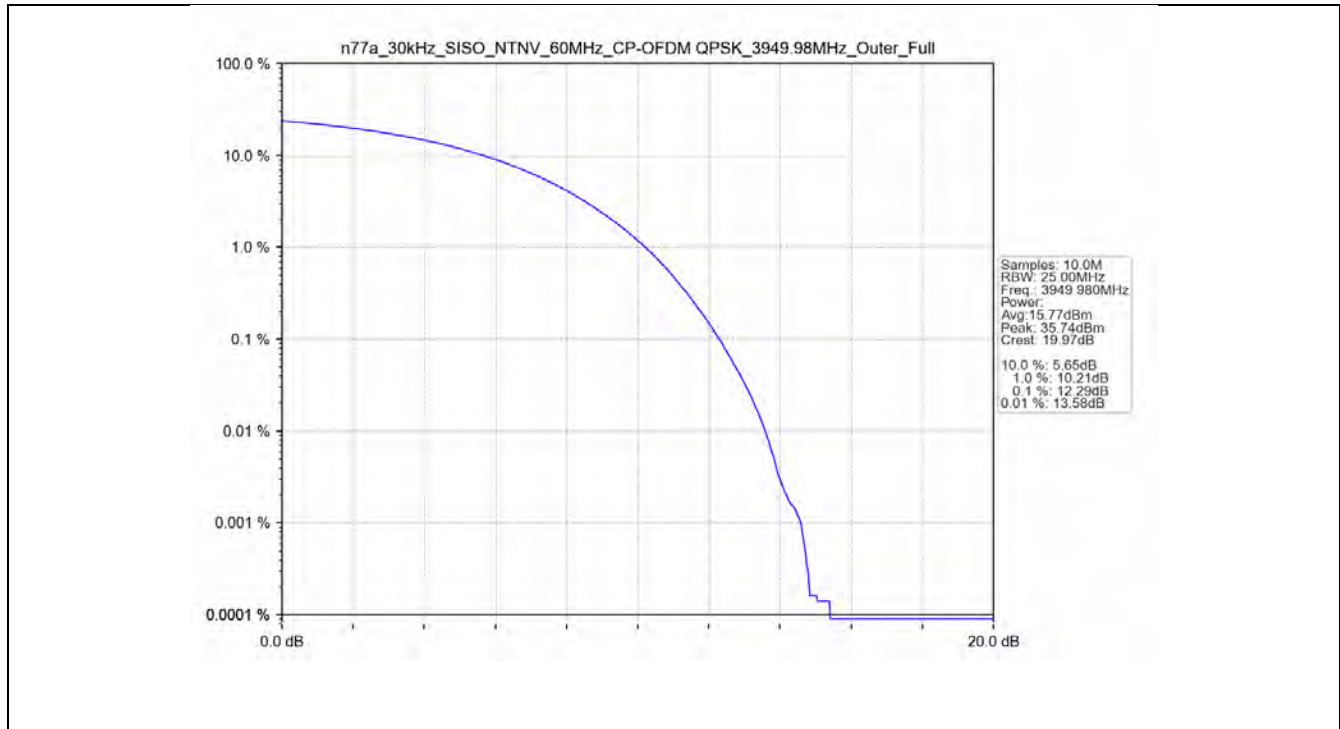


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Rev.: 01

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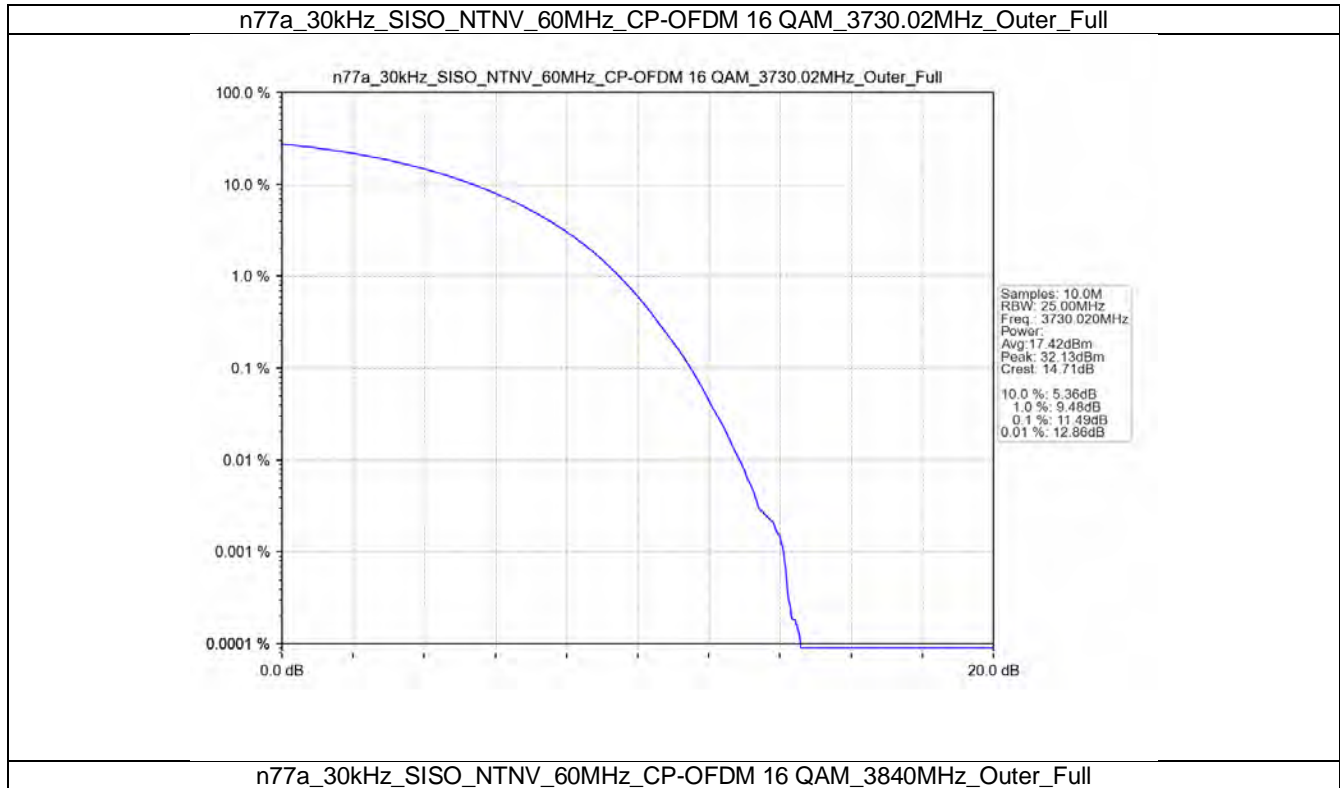


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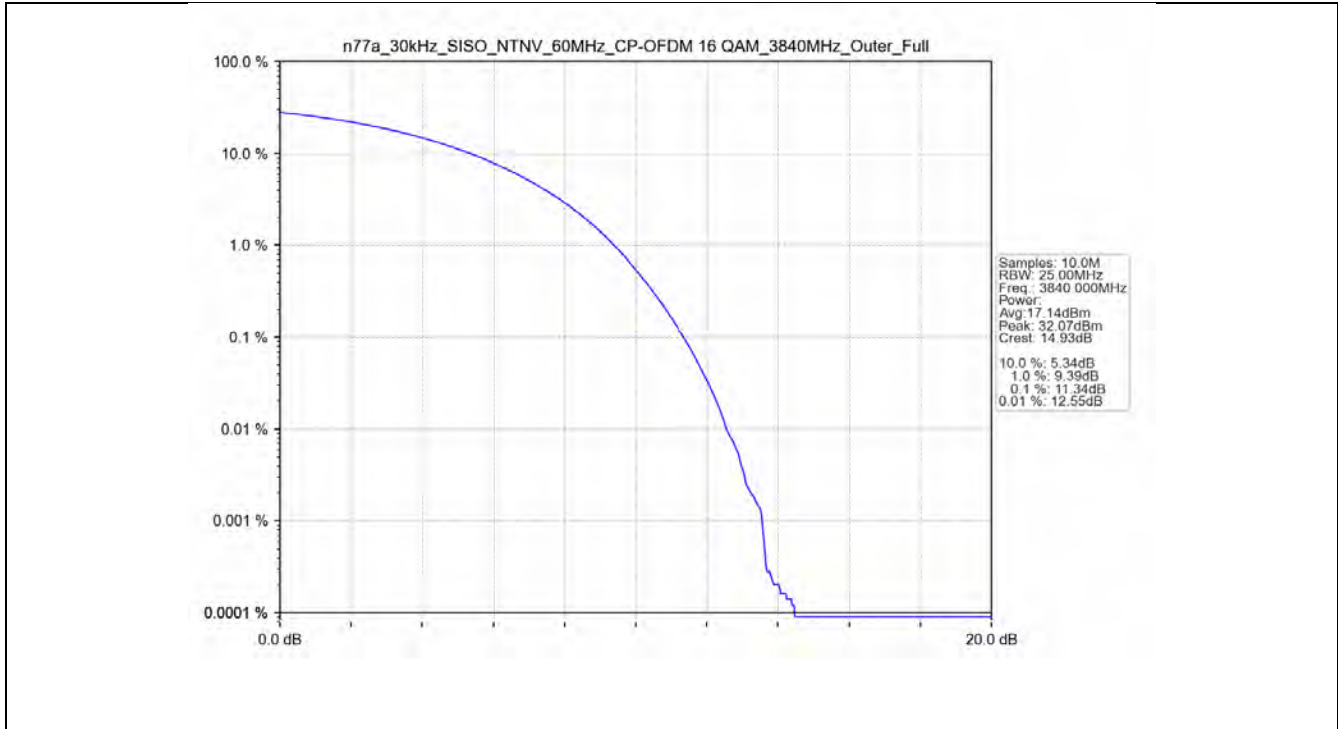


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Rev.: 01

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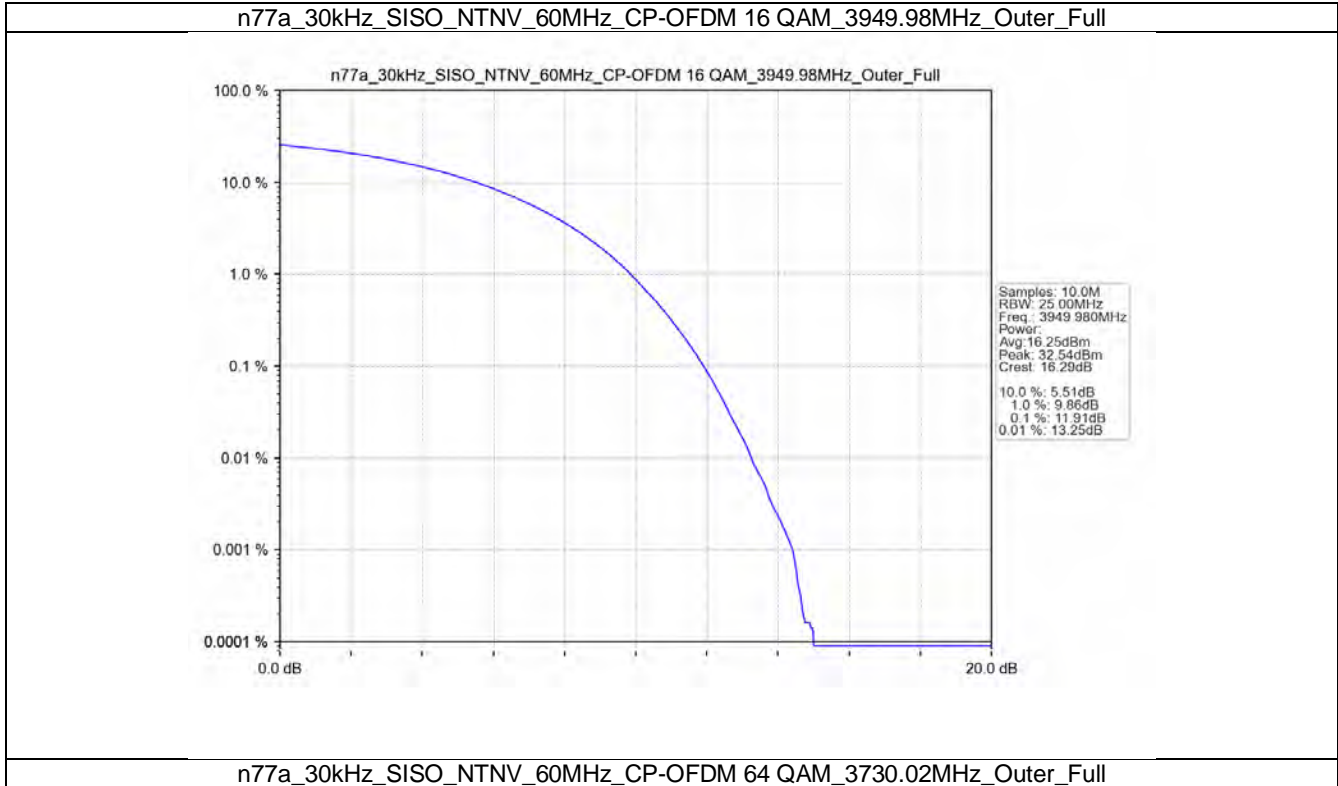


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Page: 322 of 973



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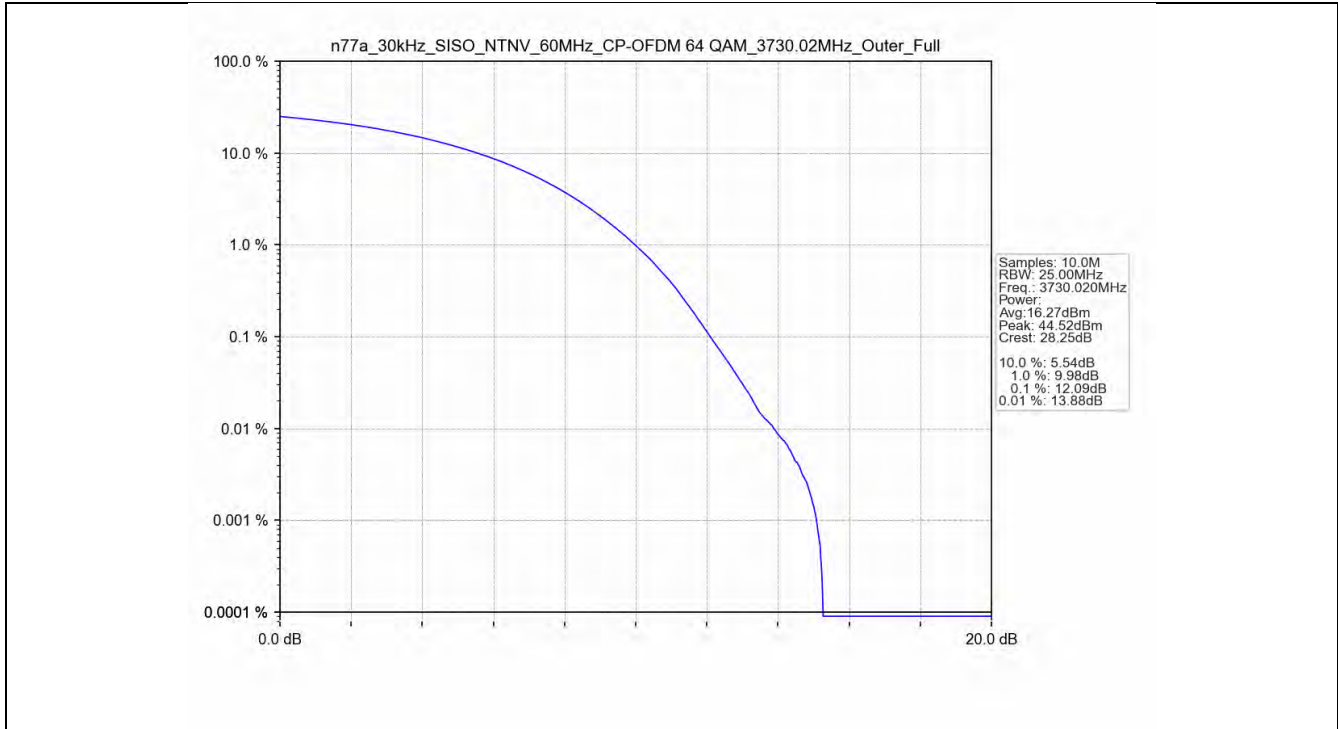


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Report No.: SZCR240100038409

Rev.: 01

Page: 323 of 973



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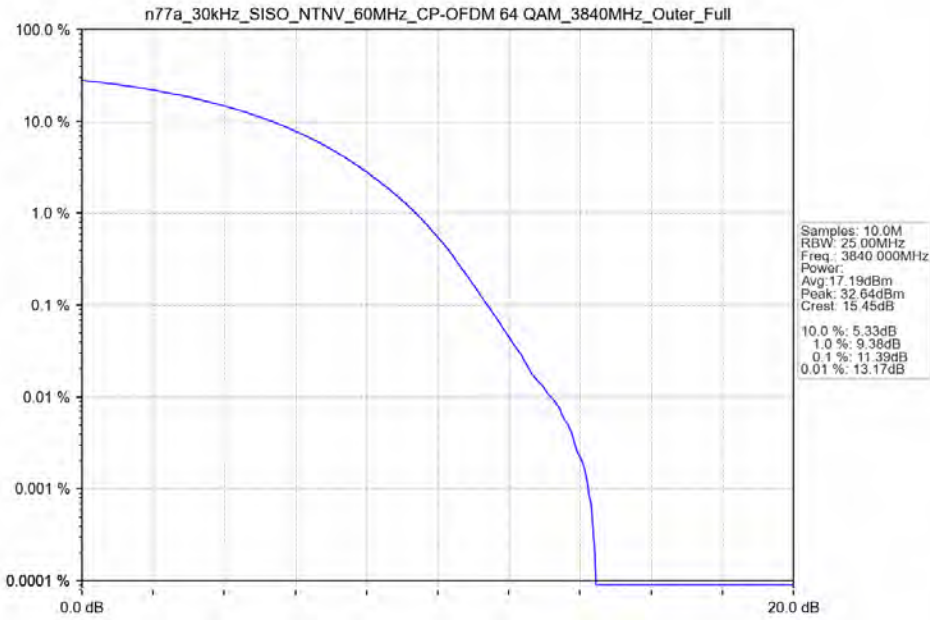
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Report No.: SZCR240100038409

Rev.: 01

Page: 324 of 973

n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3840MHz_Outer_Full



n77a_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3949.98MHz_Outer_Full



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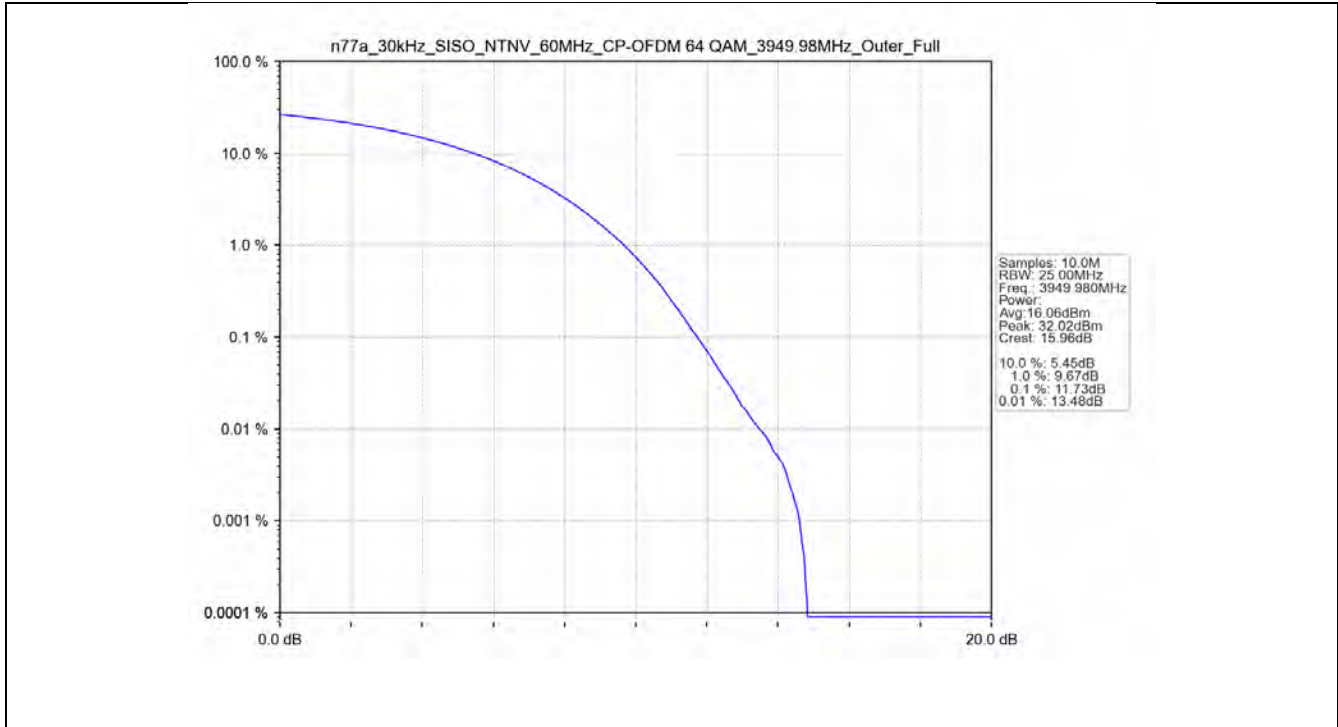


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Rev.: 01

Page: 325 of 973



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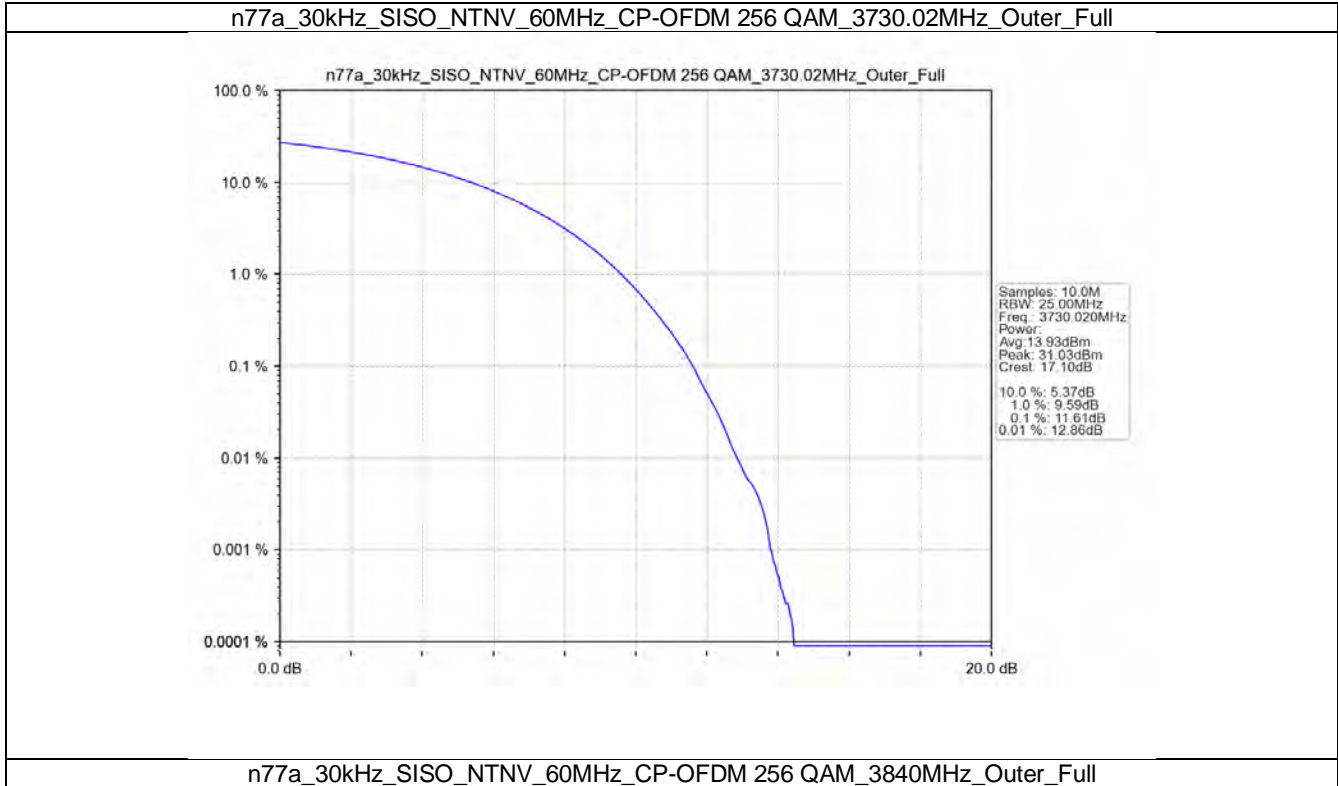


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