

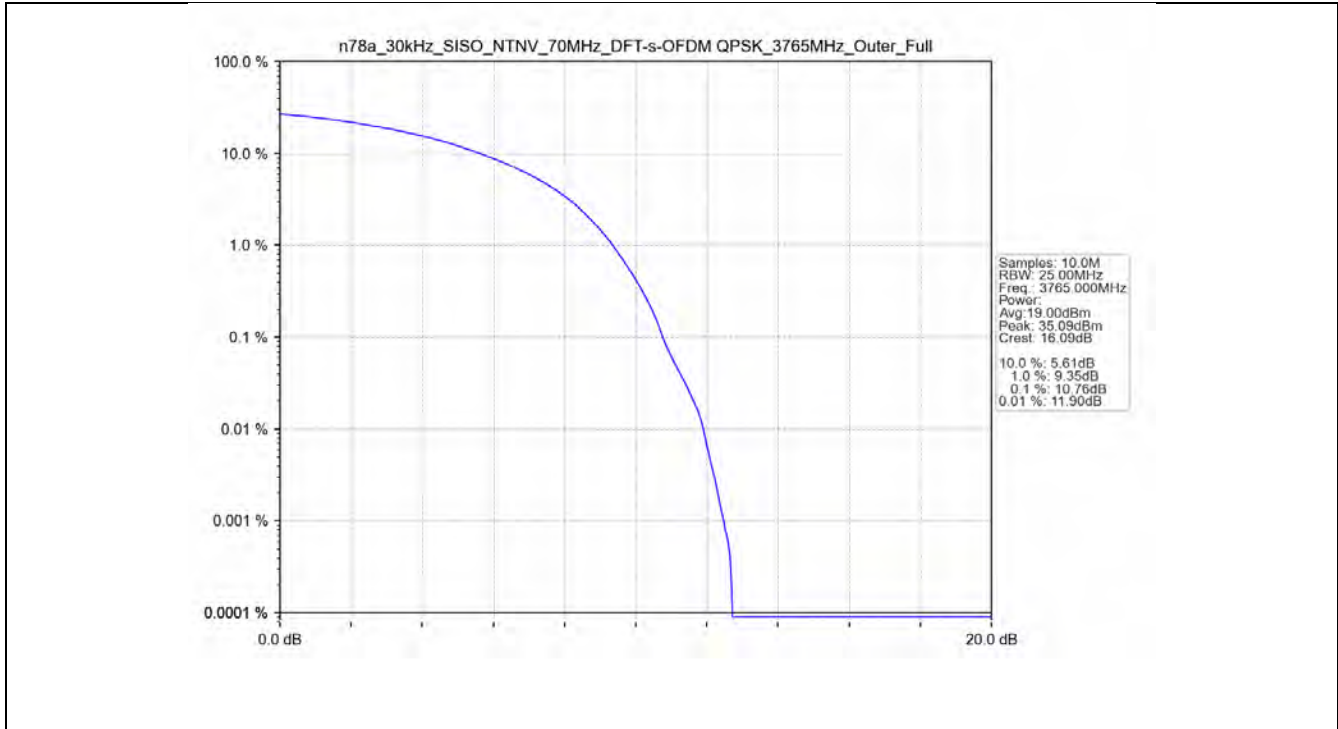


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Rev.: 01

Page: 470 of 1458



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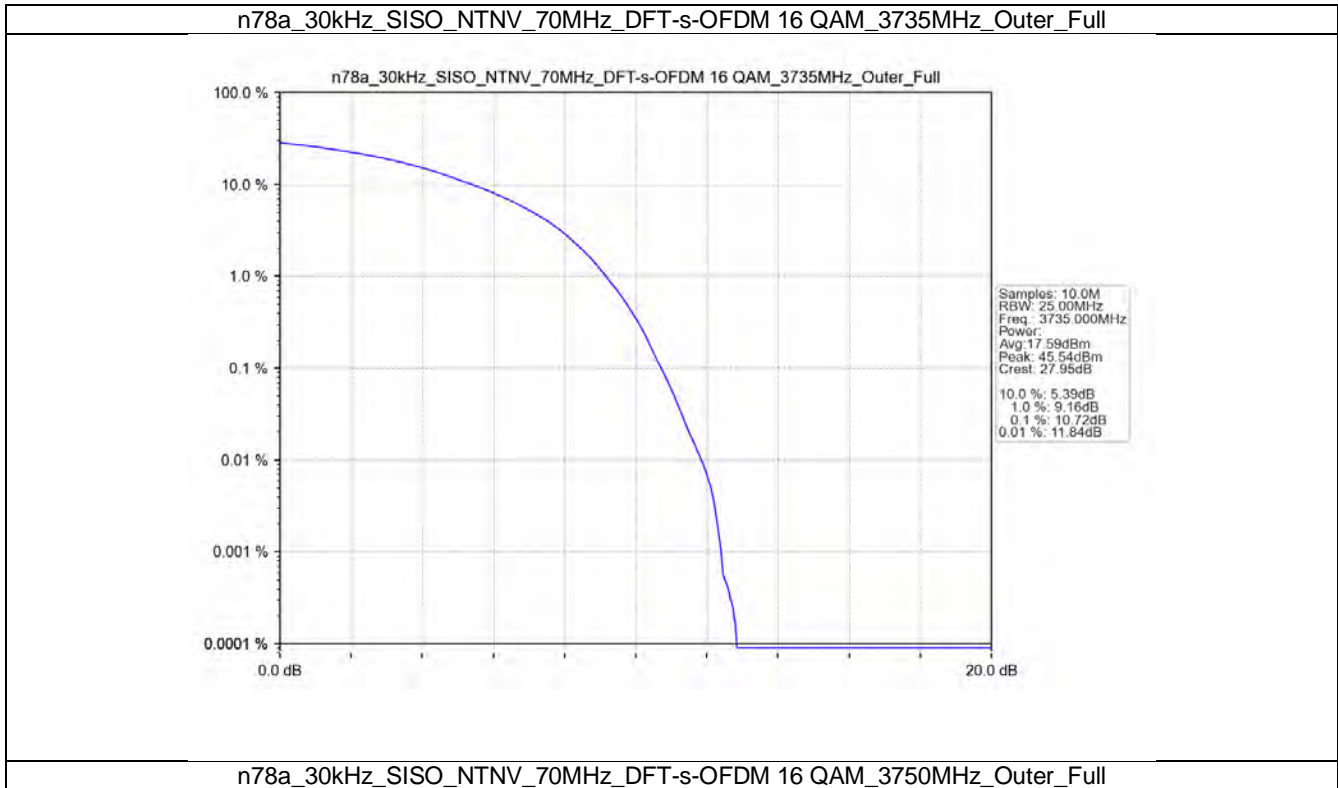


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Report No.: SZCR240100038409

Rev.: 01

Page: 471 of 1458



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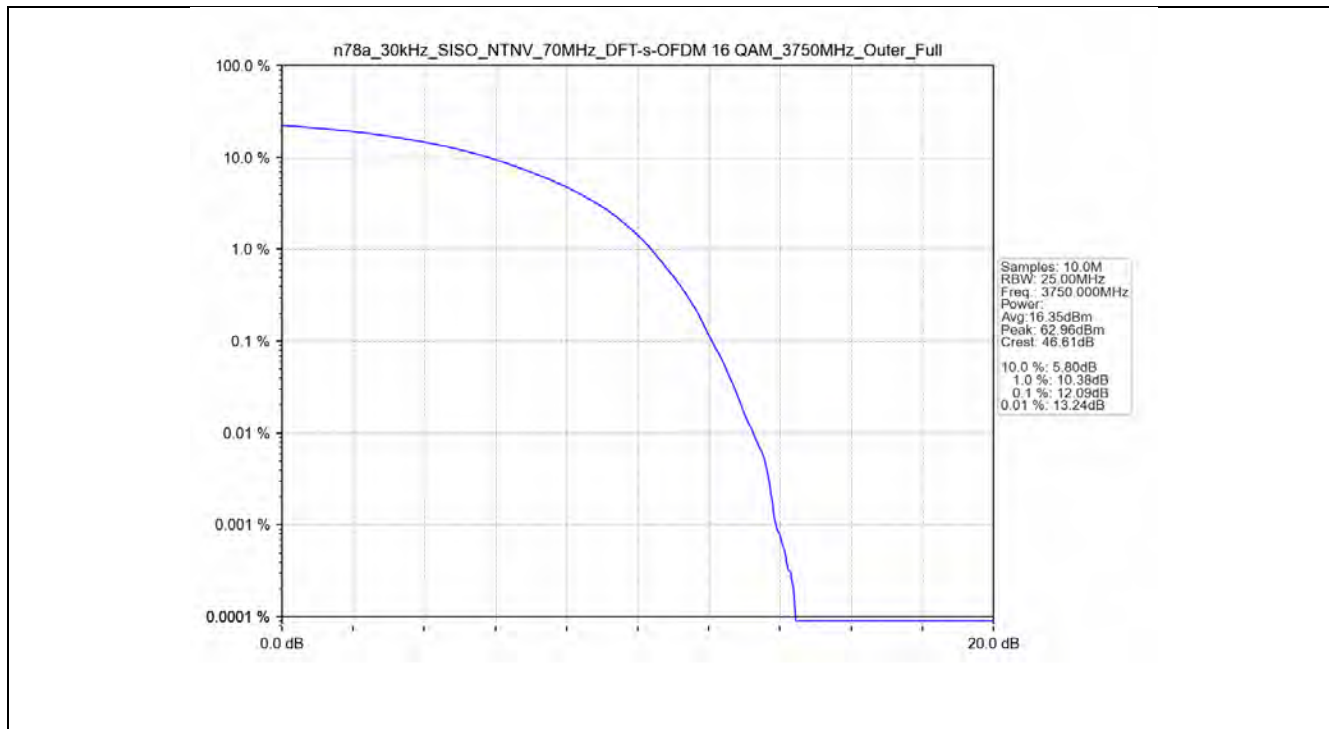
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 472 of 1458



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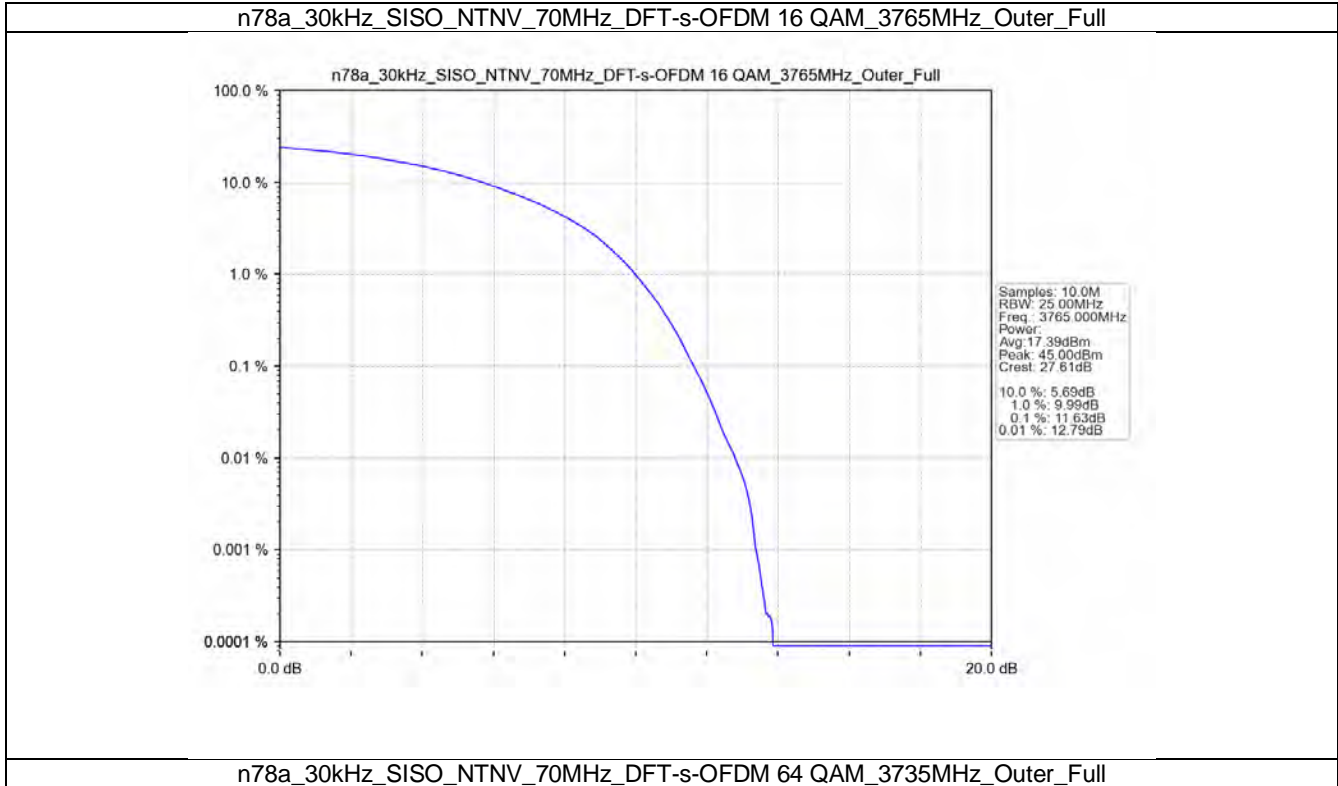


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Report No.: SZCR240100038409

Rev.: 01

Page: 473 of 1458



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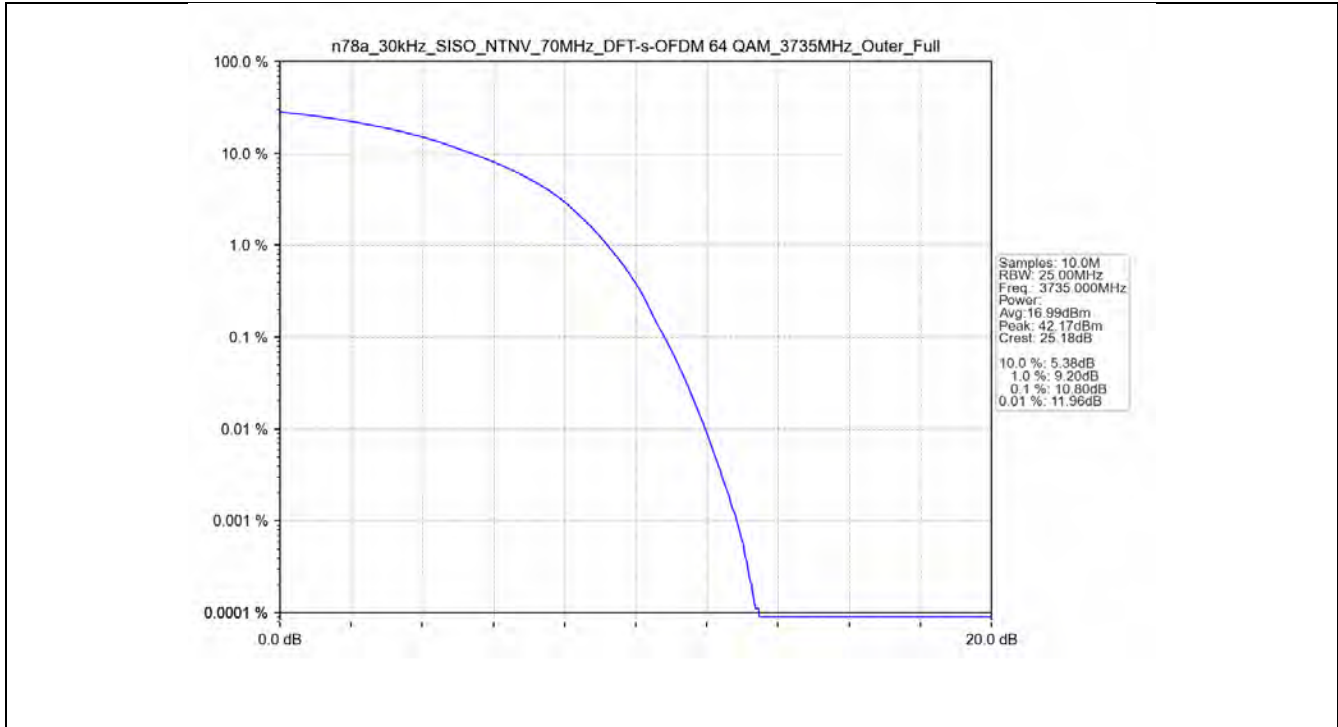


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Report No.: SZCR240100038409

Rev.: 01

Page: 474 of 1458



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Report No.: SZCR240100038409

Rev.: 01

Page: 475 of 1458



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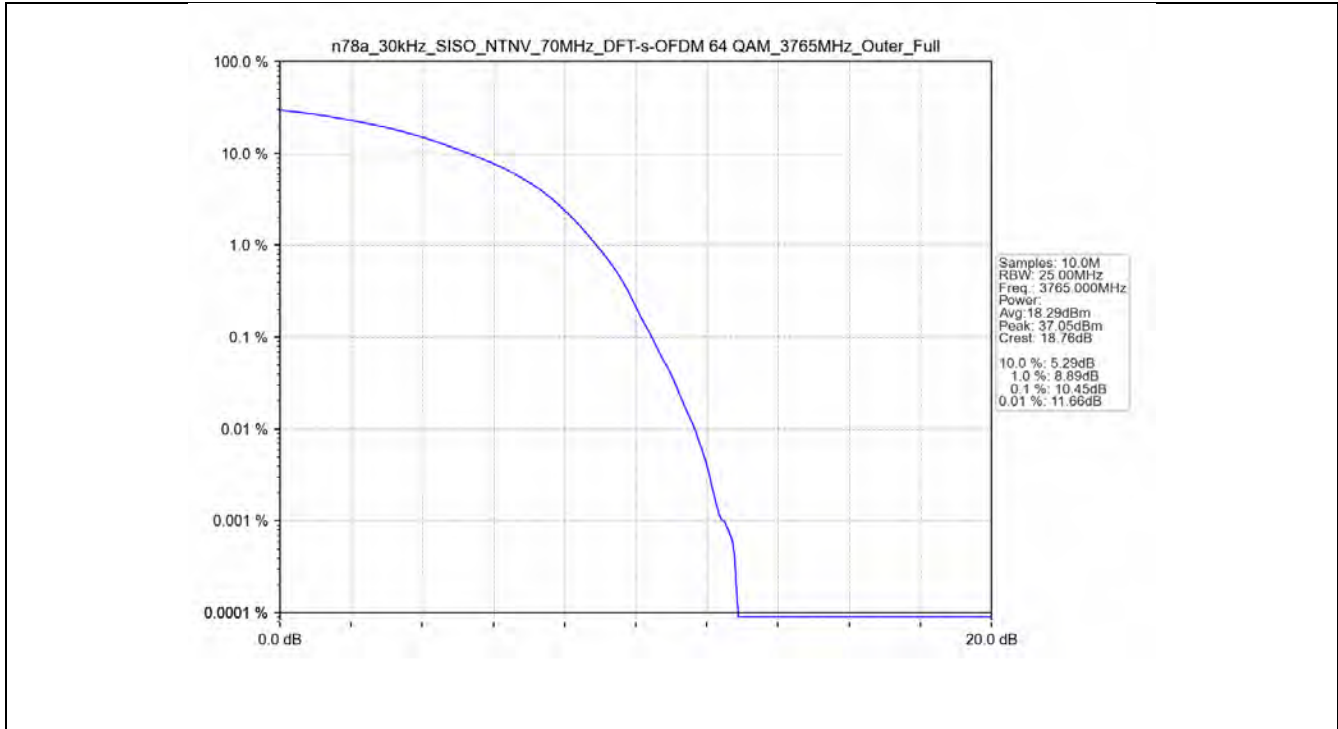


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Report No.: SZCR240100038409

Rev.: 01

Page: 476 of 1458



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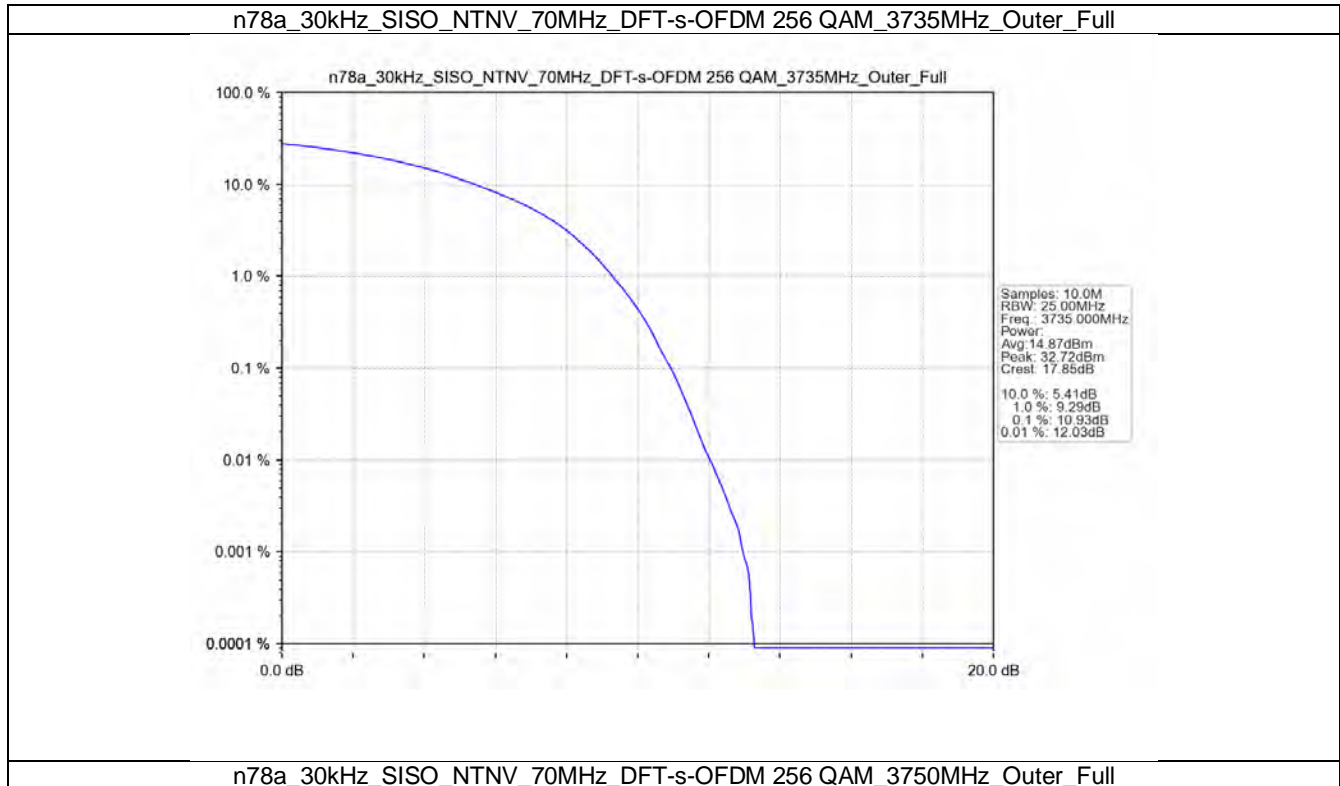


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Report No.: SZCR240100038409

Rev.: 01

Page: 477 of 1458



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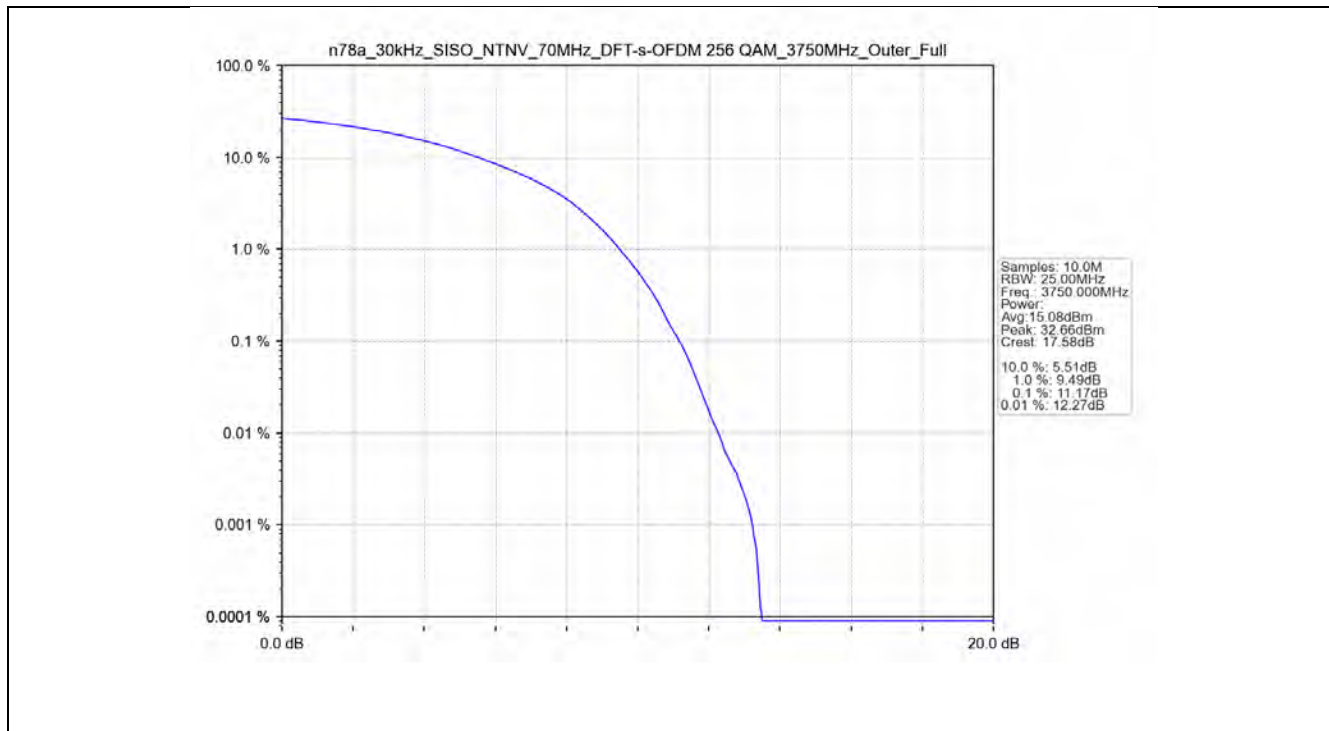
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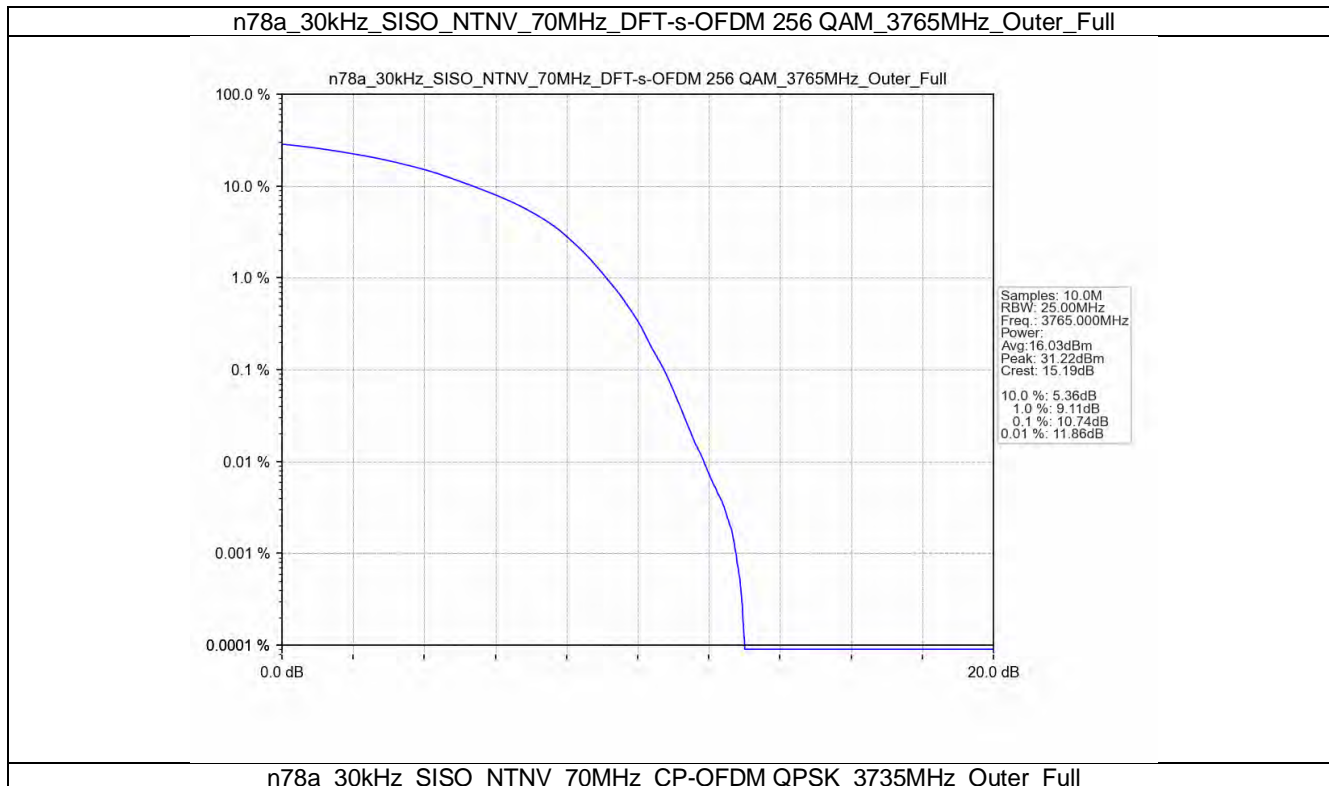
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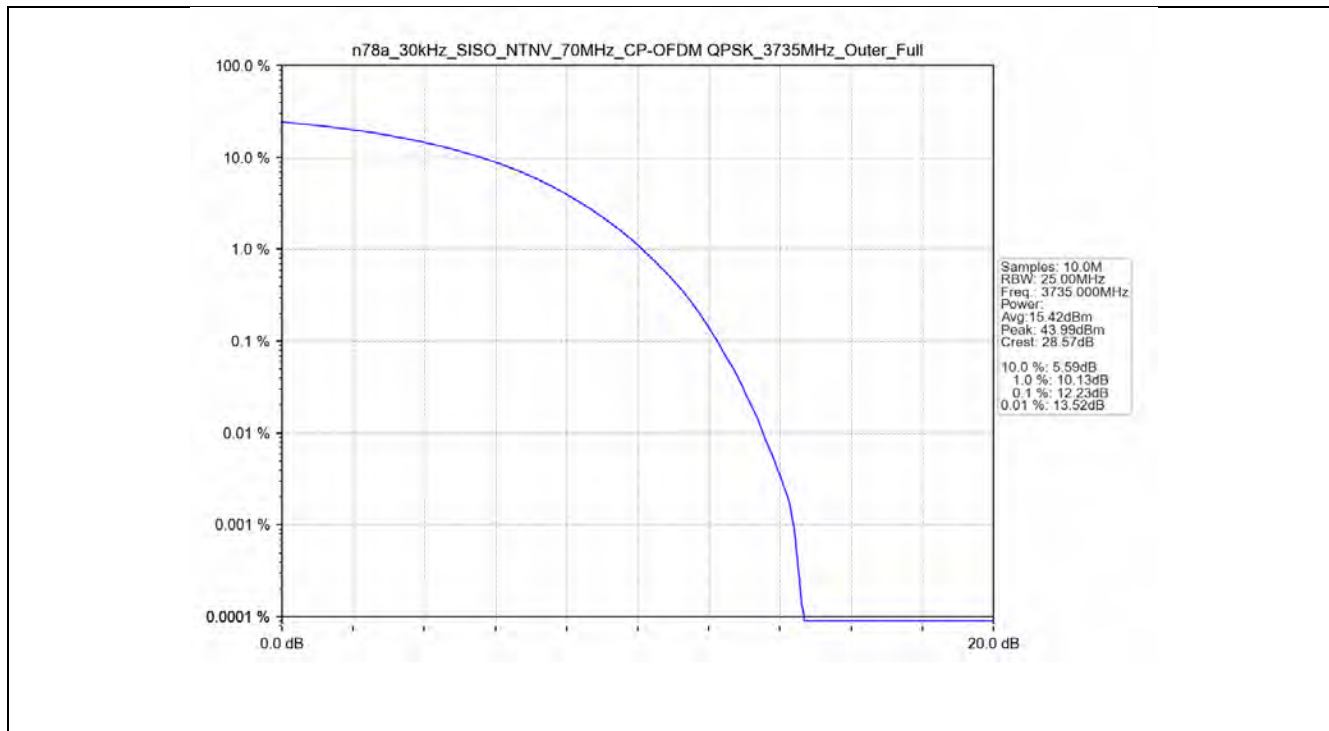
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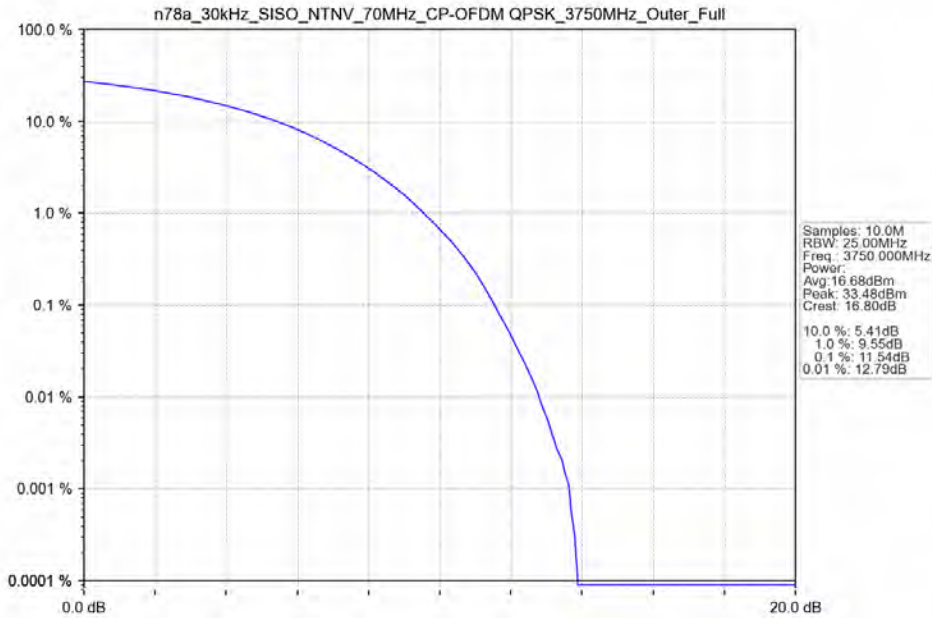
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Report No.: SZCR240100038409

Rev.: 01

Page: 481 of 1458

n78a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3750MHz\_Outer\_Full



n78a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM QPSK\_3765MHz\_Outer\_Full



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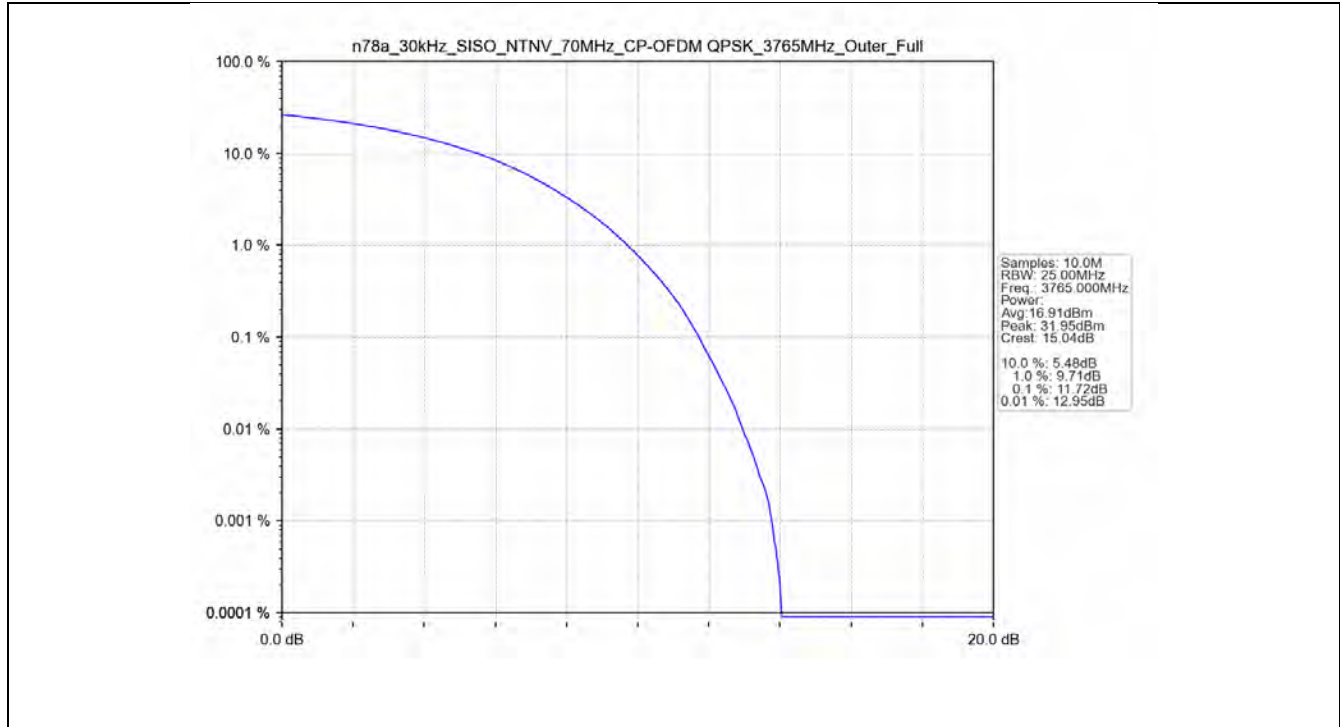


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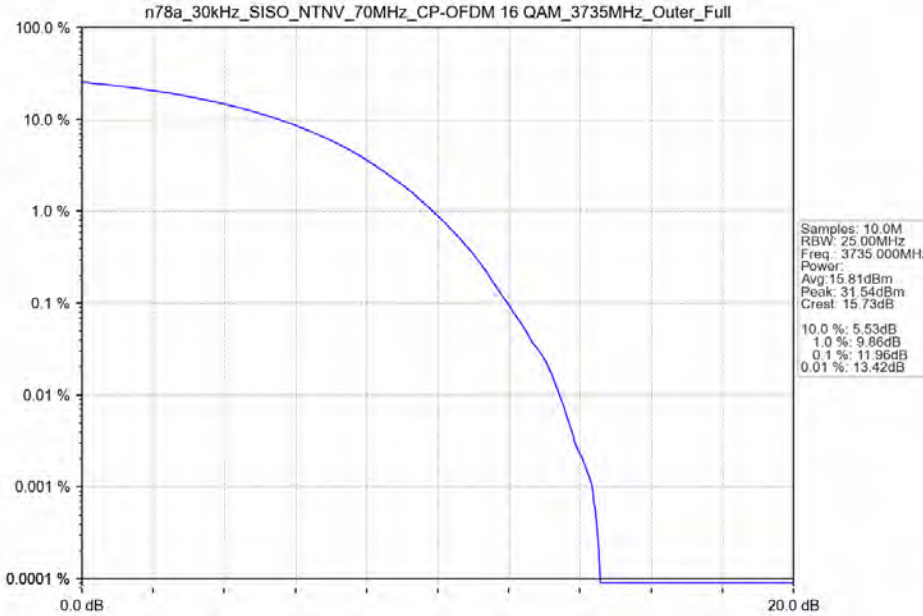
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Report No.: SZCR240100038409

Rev.: 01

Page: 483 of 1458

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n78a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM\_16\_QAM\_3750MHz\_Outer\_Full



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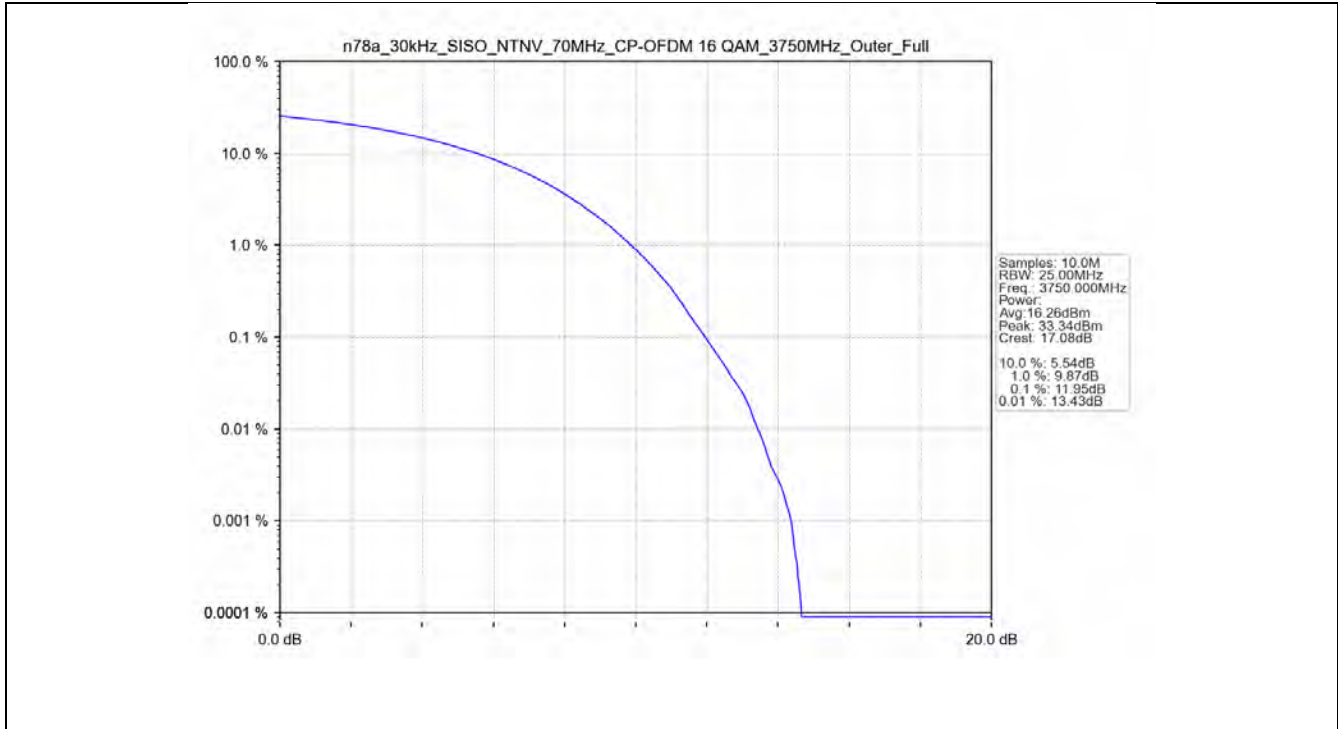


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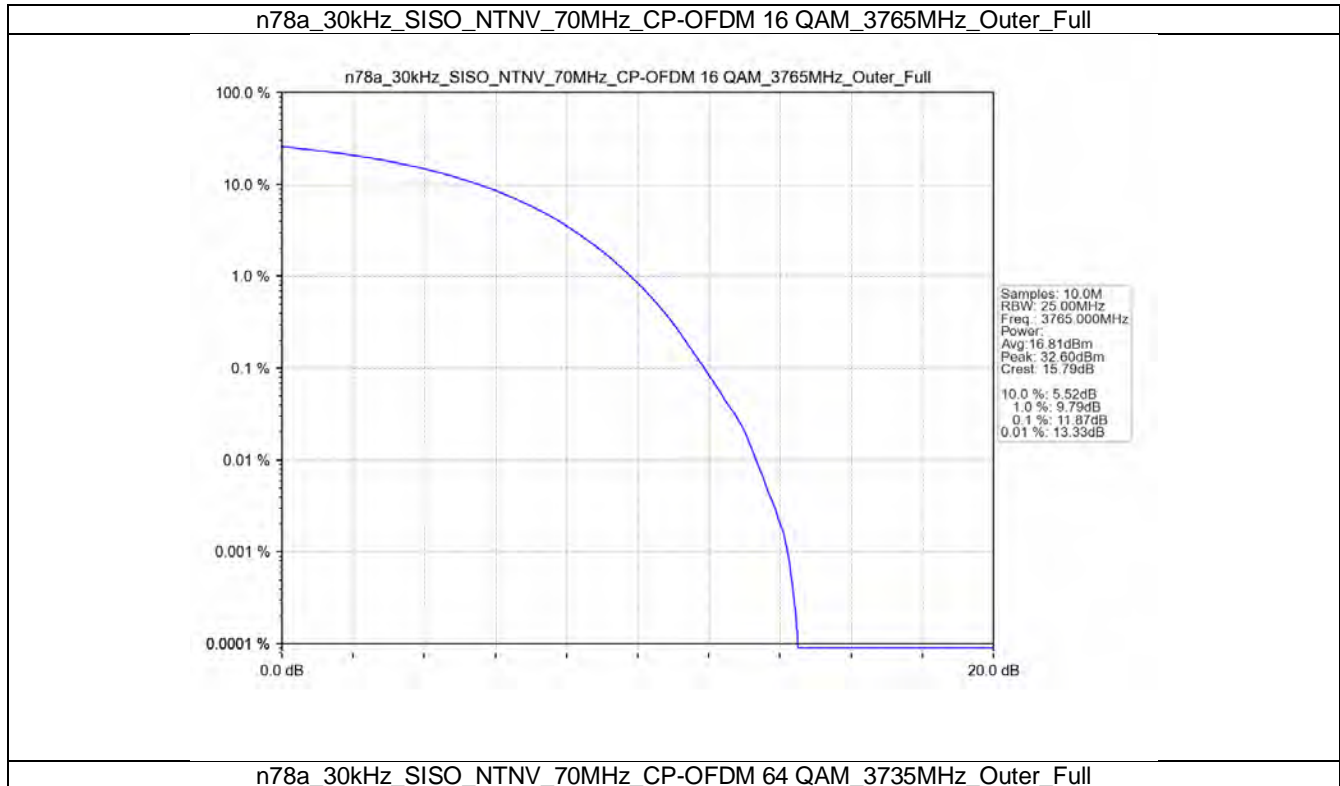


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Report No.: SZCR240100038409

Rev.: 01

Page: 485 of 1458



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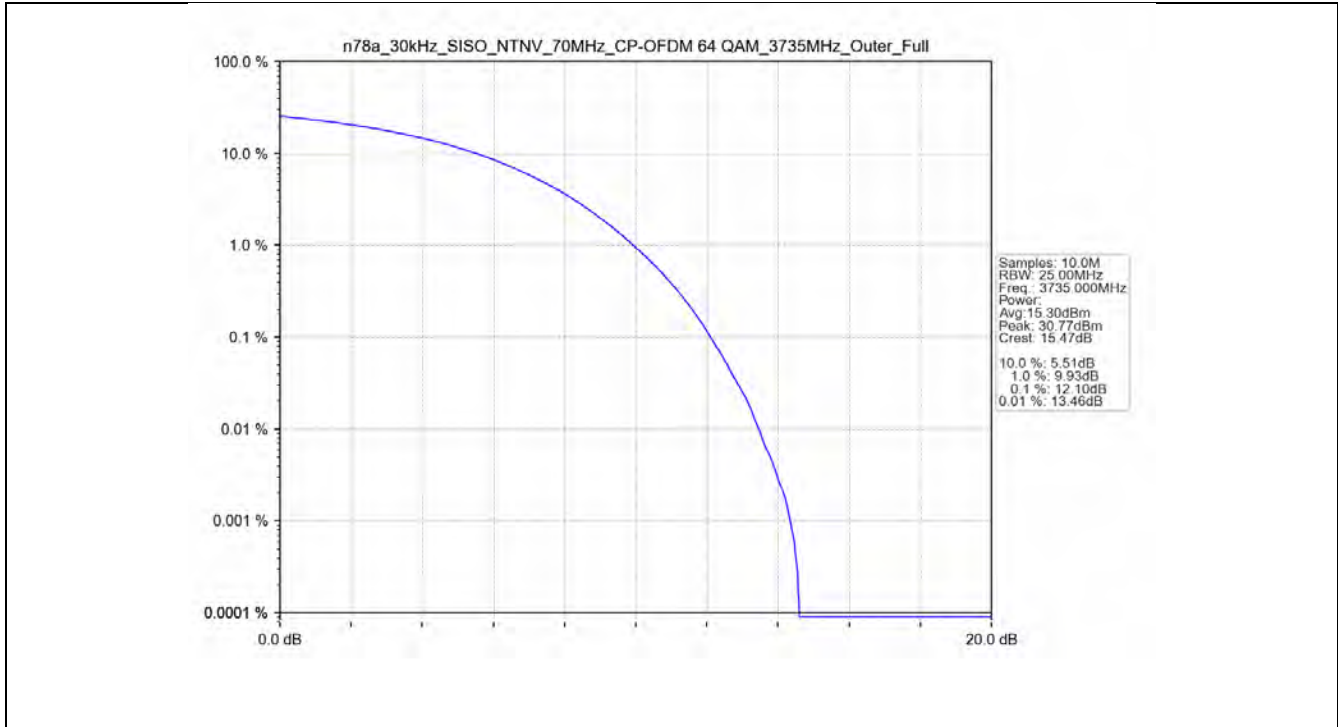


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Report No.: SZCR240100038409

Rev.: 01

Page: 486 of 1458



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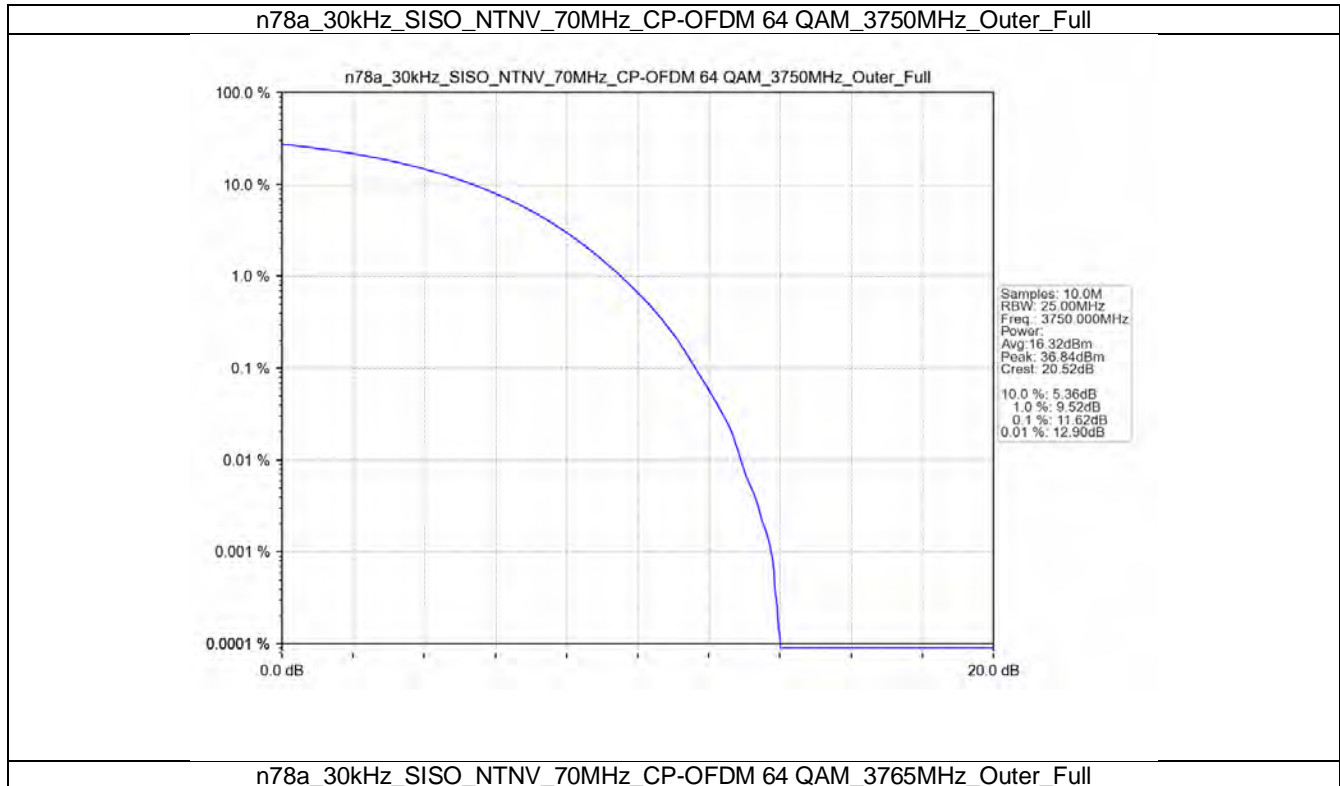


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Report No.: SZCR240100038409

Rev.: 01

Page: 487 of 1458



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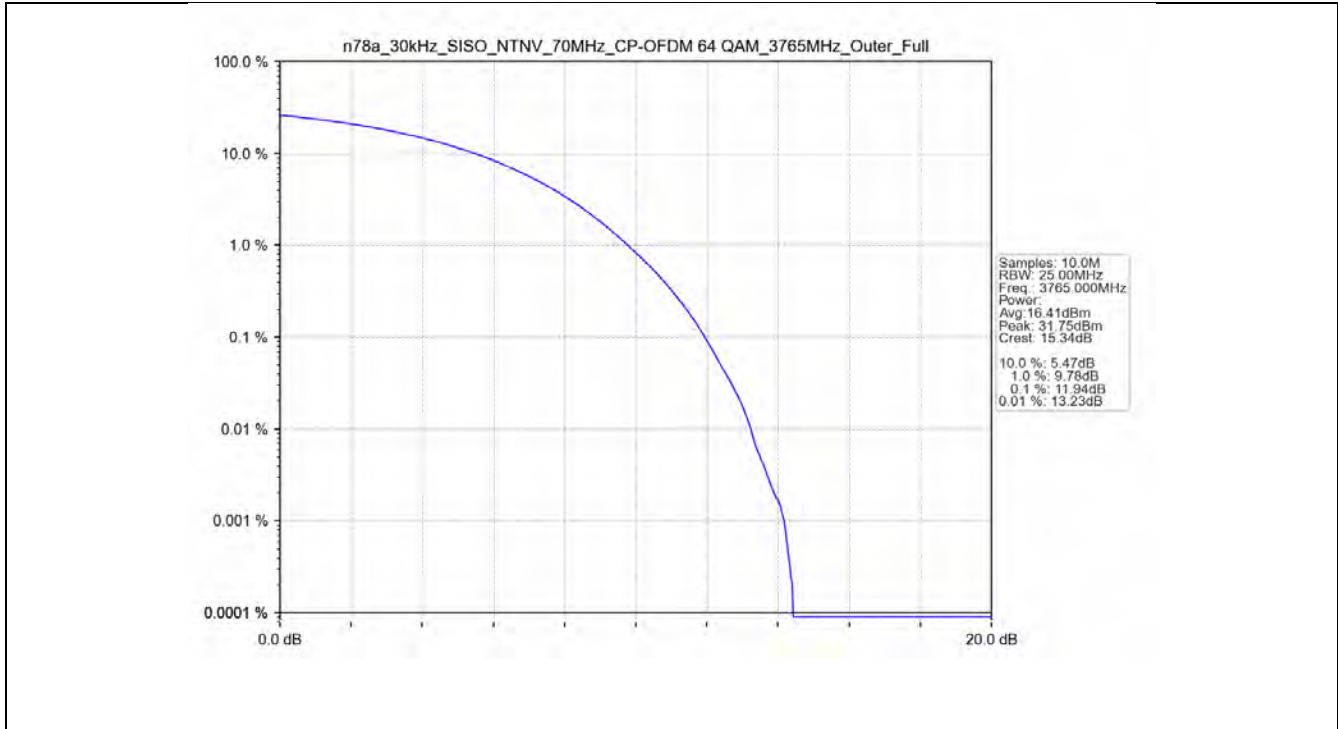


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Report No.: SZCR240100038409

Rev.: 01

Page: 488 of 1458



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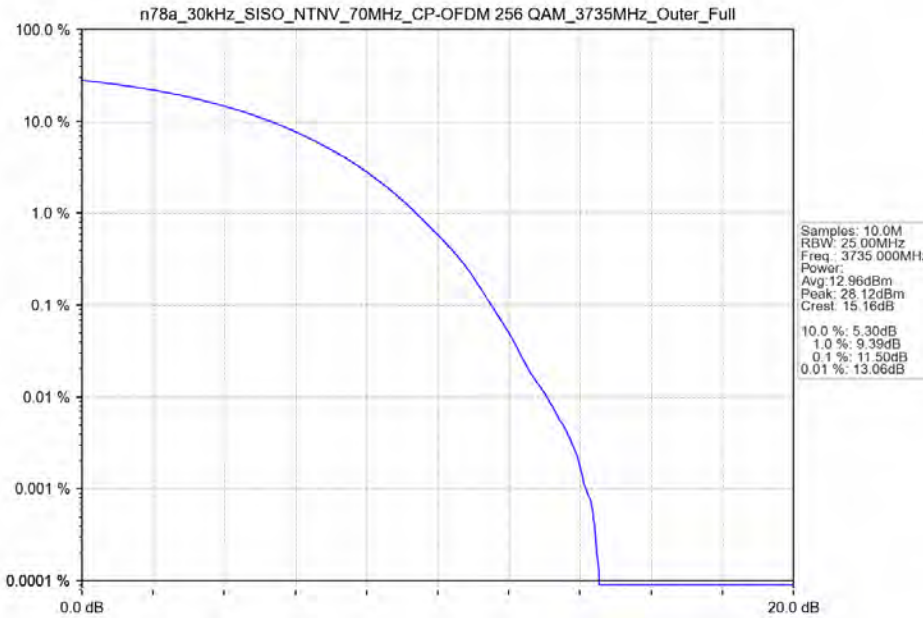
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Report No.: SZCR240100038409

Rev.: 01

Page: 489 of 1458

n78a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 256 QAM\_3735MHz\_Outer\_Full



n78a\_30kHz\_SISO\_NTNV\_70MHz\_CP-OFDM 256 QAM\_3750MHz\_Outer\_Full



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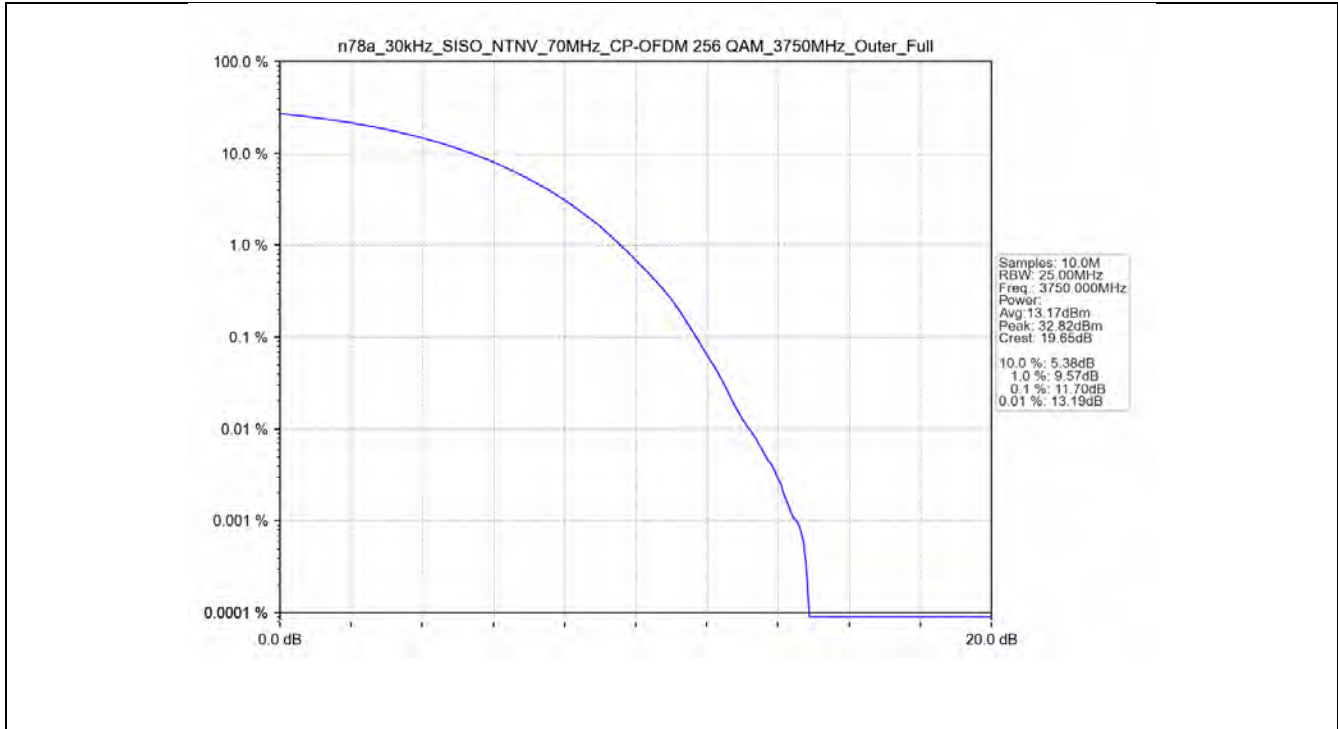


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Page: 490 of 1458



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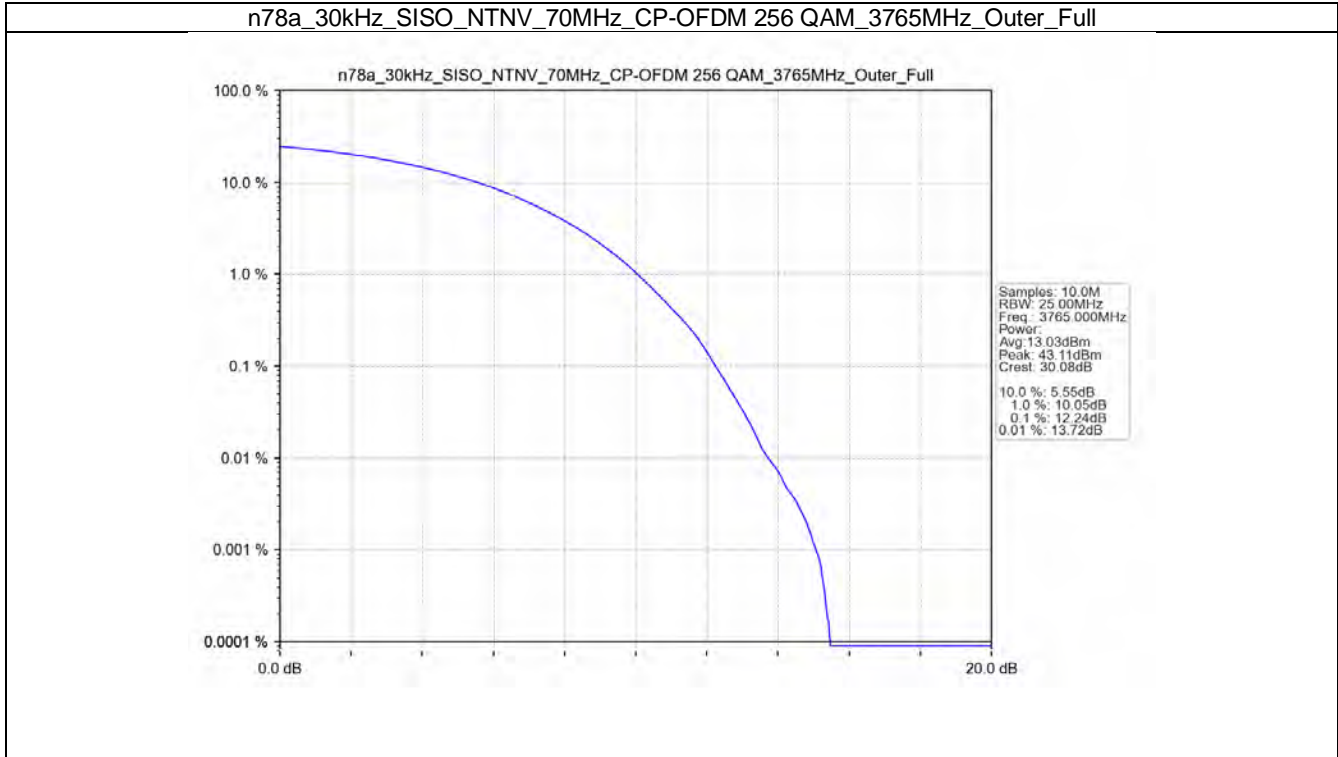
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Report No.: SZCR240100038409

Rev.: 01

Page: 491 of 1458

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Report No.: SZCR240100038409

Rev.: 01

Page: 492 of 1458

## 4.7 30k\_SISO\_80MHz\_NTNV

### 4.7.1 Test Result

5G NR n78a SCS=30kHz SISO 80MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3740.01	Outer_Full	10.83	/	/	<=13	Pass
	3750	Outer_Full	10.43	/	/	<=13	Pass
	3759.99	Outer_Full	10.09	/	/	<=13	Pass
DFT-s-OFDM QPSK	3740.01	Outer_Full	10.70	/	/	<=13	Pass
	3750	Outer_Full	10.46	/	/	<=13	Pass
	3759.99	Outer_Full	10.57	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3740.01	Outer_Full	11.88	/	/	<=13	Pass
	3750	Outer_Full	12.85	/	/	<=13	Pass
	3759.99	Outer_Full	10.84	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3740.01	Outer_Full	10.93	/	/	<=13	Pass
	3750	Outer_Full	10.80	/	/	<=13	Pass
	3759.99	Outer_Full	11.49	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer_Full	11.46	/	/	<=13	Pass
	3750	Outer_Full	11.02	/	/	<=13	Pass
	3759.99	Outer_Full	11.15	/	/	<=13	Pass
CP-OFDM QPSK	3740.01	Outer_Full	11.40	/	/	<=13	Pass
	3750	Outer_Full	11.48	/	/	<=13	Pass
	3759.99	Outer_Full	11.30	/	/	<=13	Pass
CP-OFDM 16 QAM	3740.01	Outer_Full	11.83	/	/	<=13	Pass
	3750	Outer_Full	10.93	/	/	<=13	Pass
	3759.99	Outer_Full	11.12	/	/	<=13	Pass
CP-OFDM 64 QAM	3740.01	Outer_Full	11.62	/	/	<=13	Pass
	3750	Outer_Full	11.80	/	/	<=13	Pass
	3759.99	Outer_Full	11.61	/	/	<=13	Pass
CP-OFDM 256 QAM	3740.01	Outer_Full	11.54	/	/	<=13	Pass
	3750	Outer_Full	11.20	/	/	<=13	Pass
	3759.99	Outer_Full	11.60	/	/	<=13	Pass



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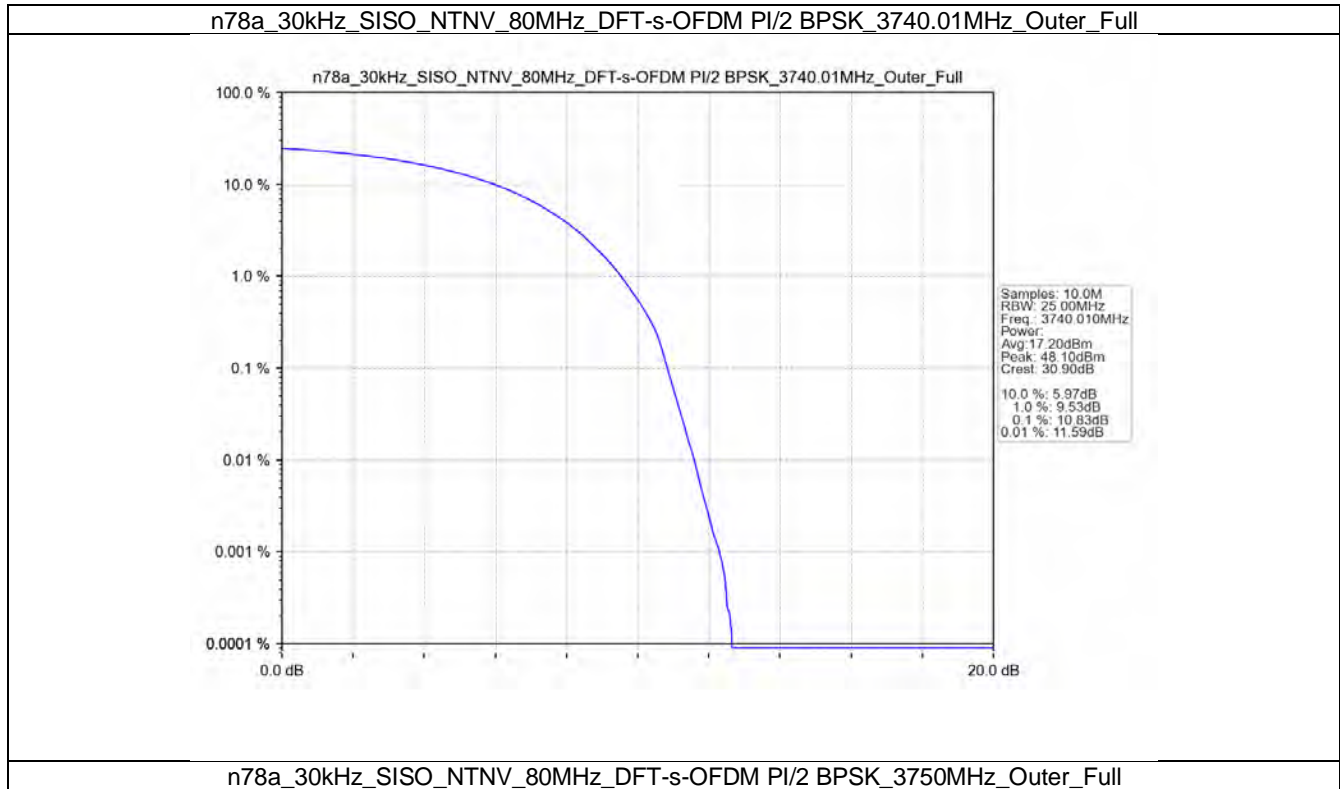
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4.7.2 Test Graph



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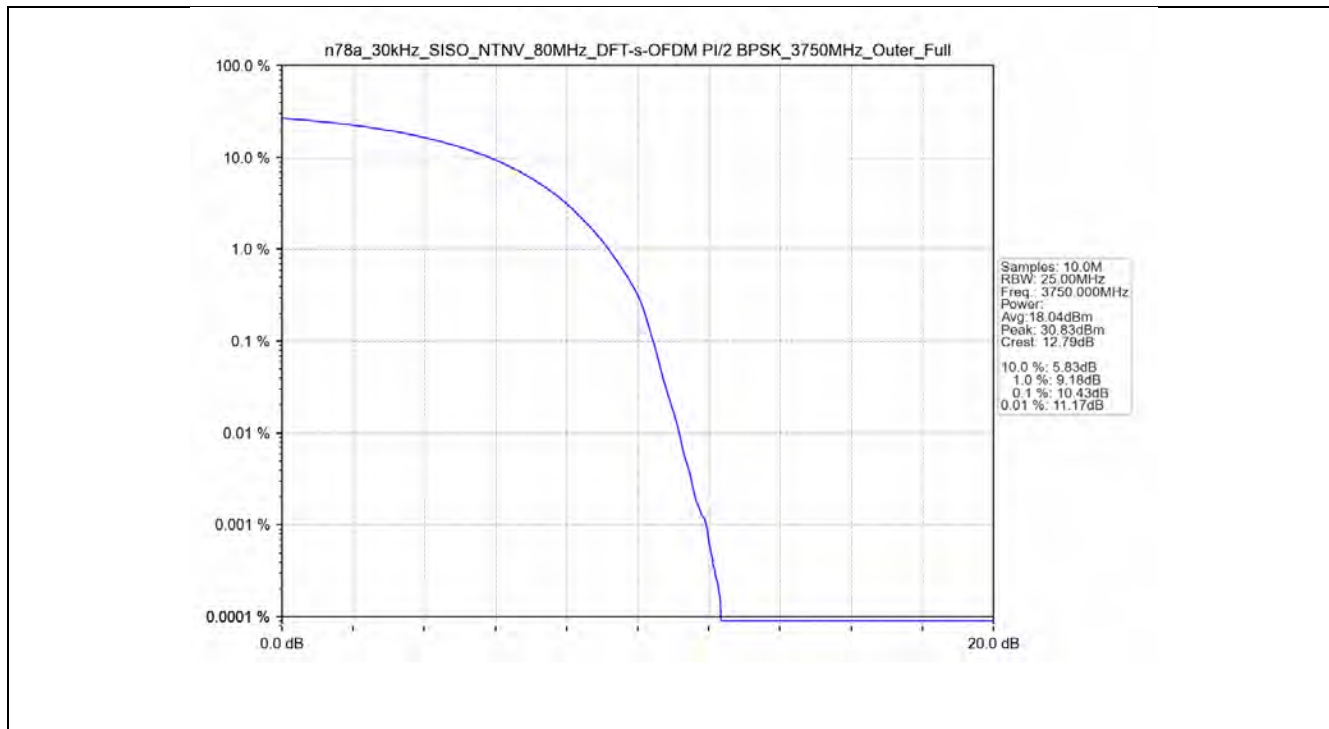
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Rev.: 01  
Page: 494 of 1458



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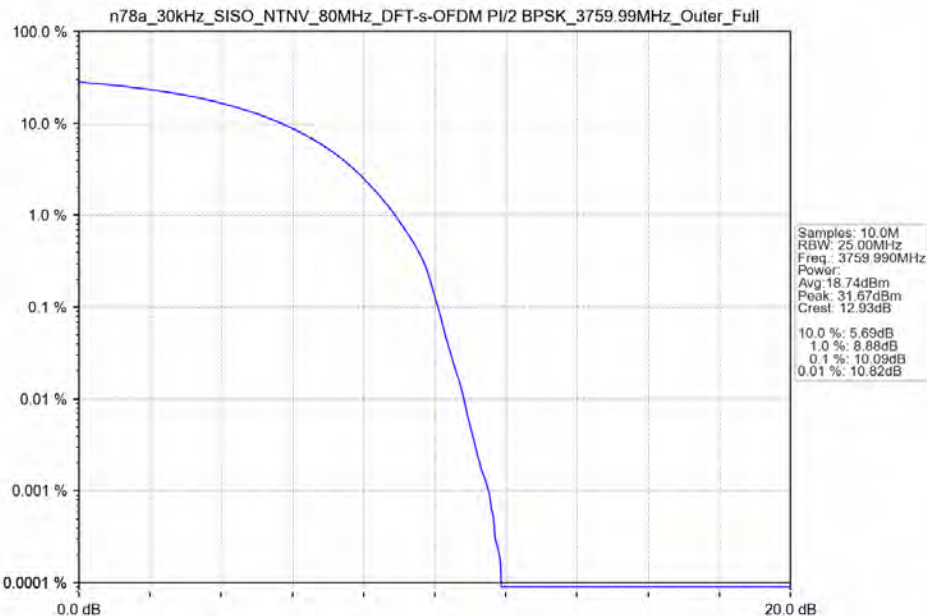
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Report No.: SZCR240100038409  
 Rev.: 01  
 Page: 495 of 1458

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n78a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3740.01MHz\_Outer\_Full



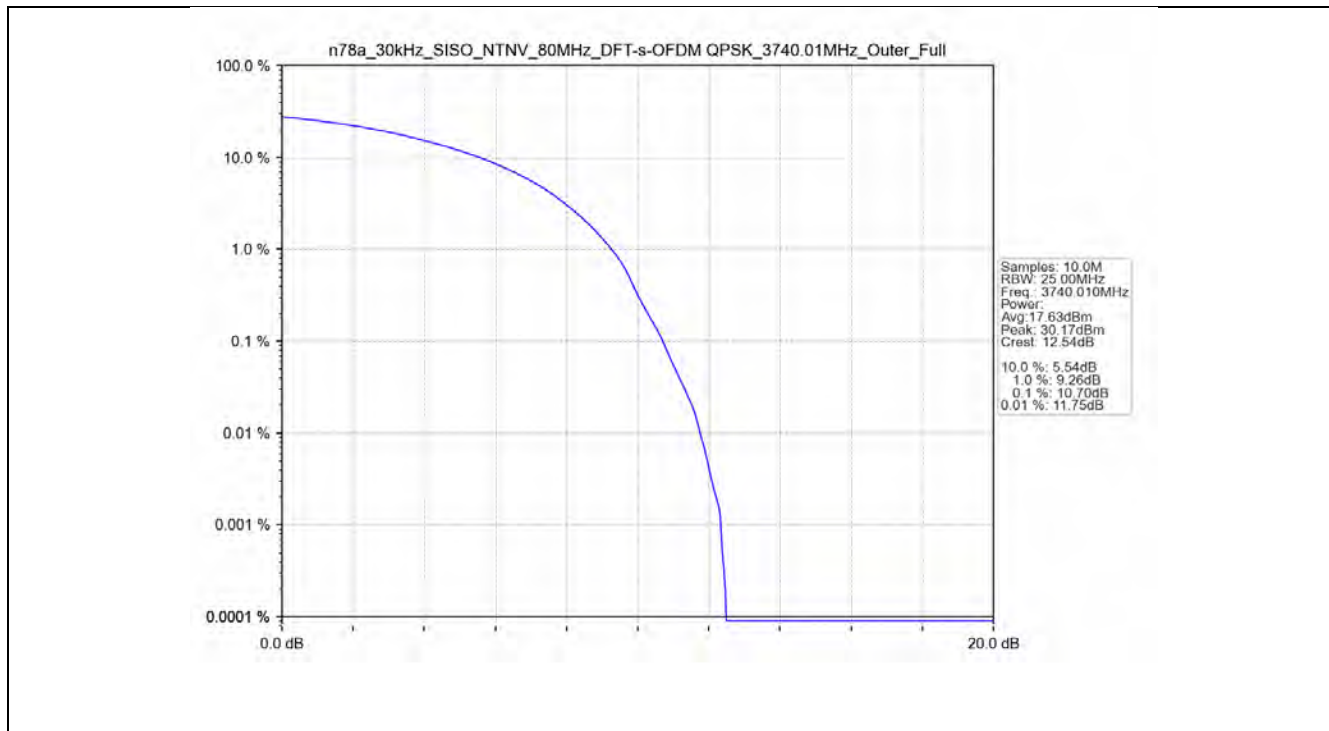
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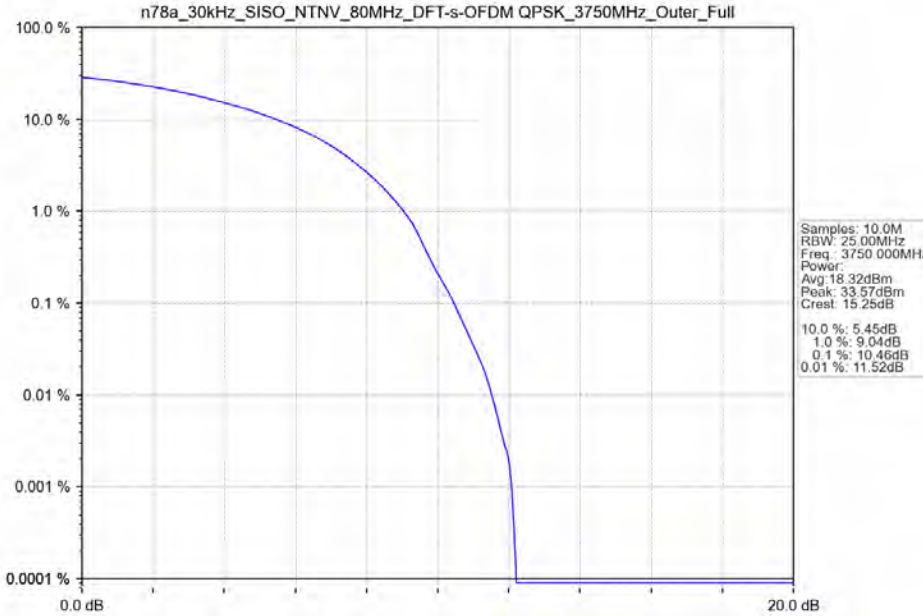
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Report No.: SZCR240100038409

Rev.: 01

Page: 497 of 1458

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n78a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3759.99MHz\_Outer\_Full



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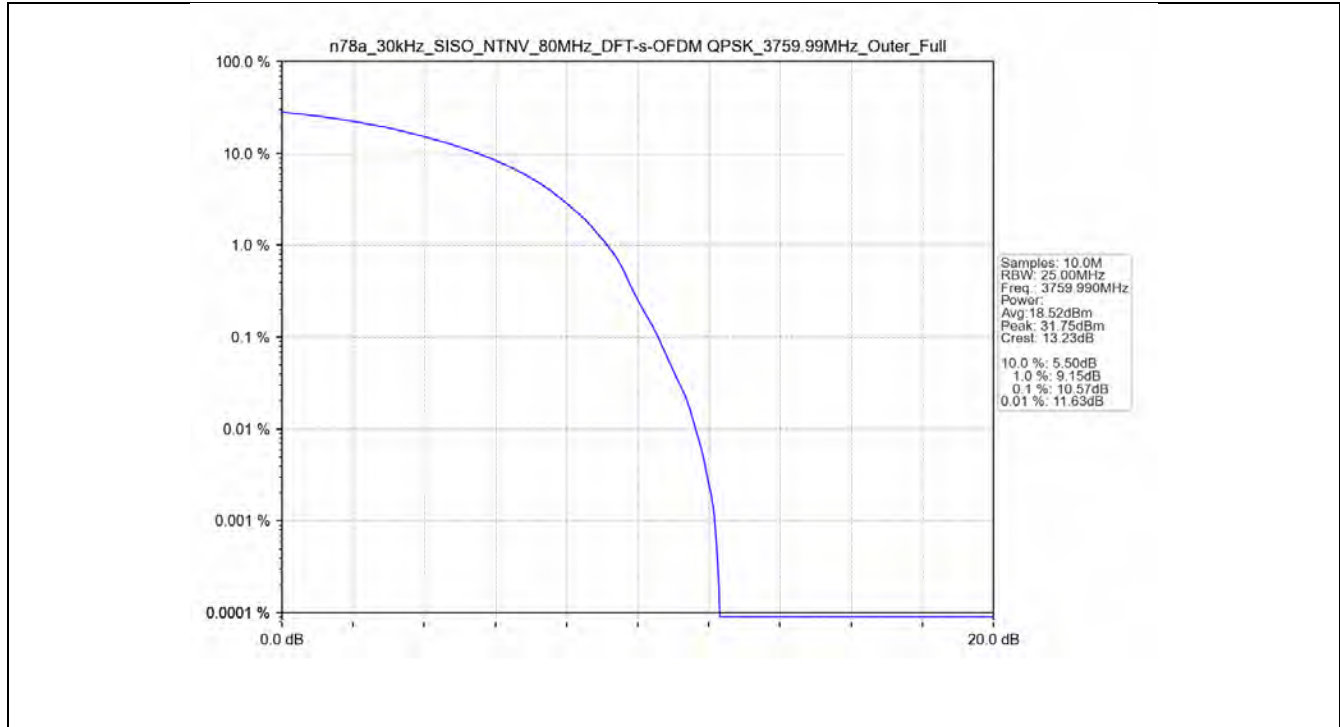


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Report No.: SZCR240100038409

Rev.: 01

Page: 498 of 1458



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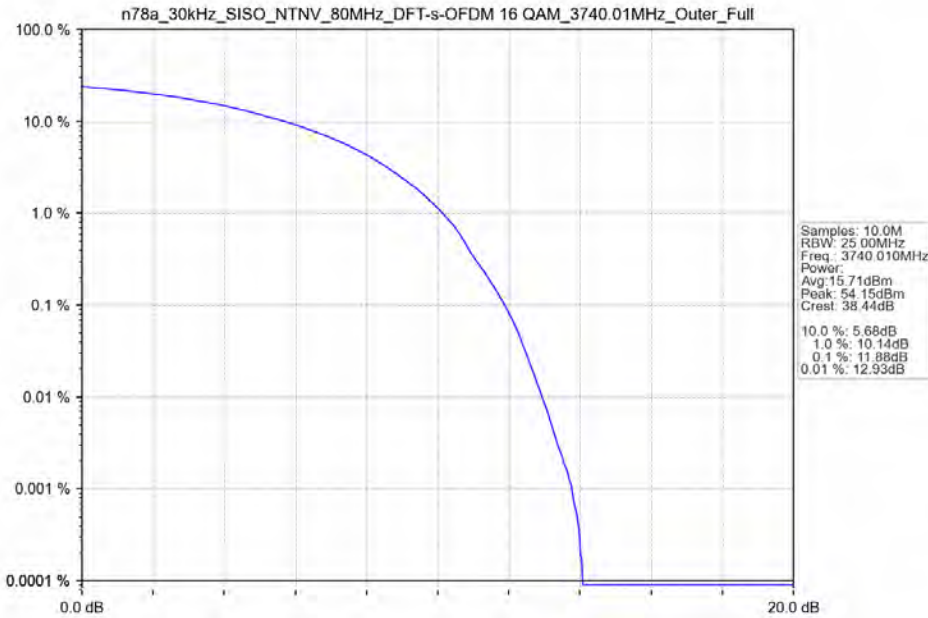
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Report No.: SZCR240100038409

Rev.: 01

Page: 499 of 1458

n78a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_16\_QAM\_3740.01MHz\_Outer\_Full



n78a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_16\_QAM\_3750MHz\_Outer\_Full



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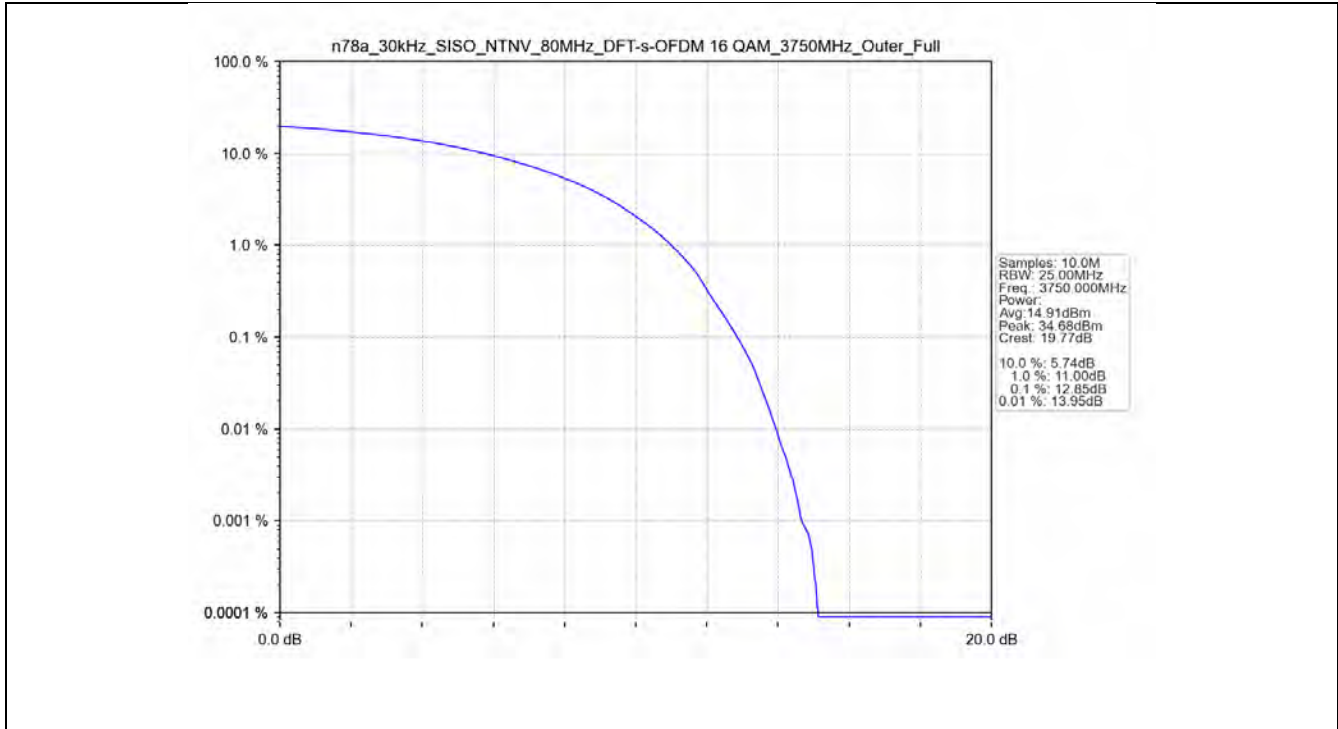


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Report No.: SZCR240100038409

Rev.: 01

Page: 500 of 1458



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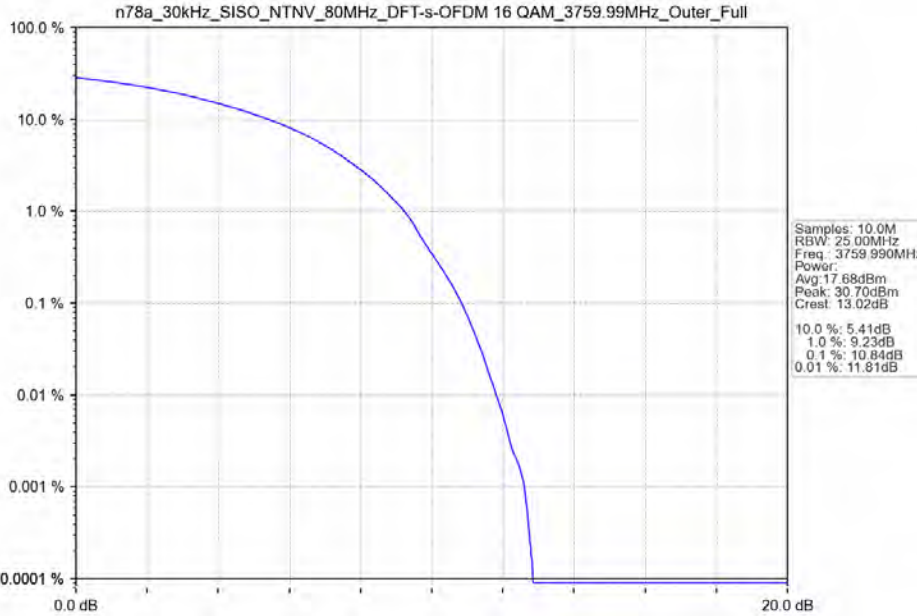
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Report No.: SZCR240100038409

Rev.: 01

Page: 501 of 1458

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n78a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 64 QAM\_3740.01MHz\_Outer\_Full



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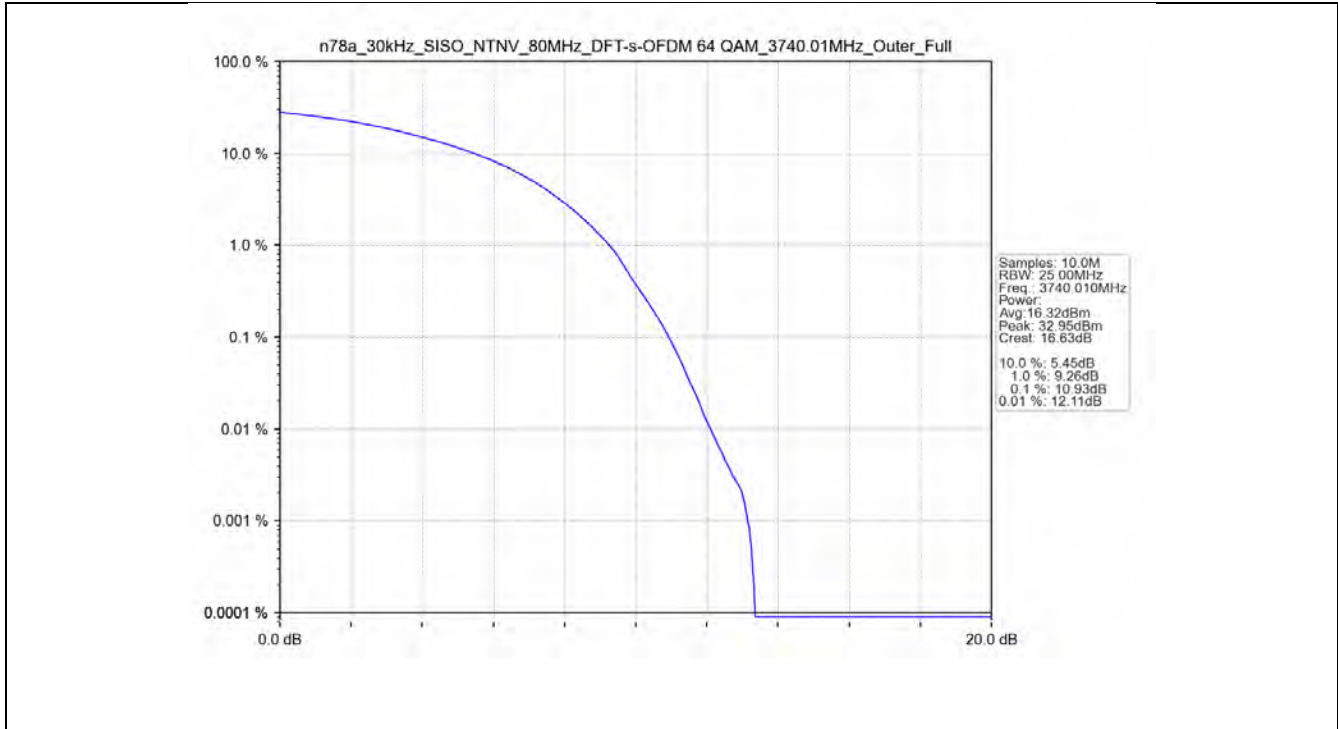


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Rev.: 01

Page: 502 of 1458



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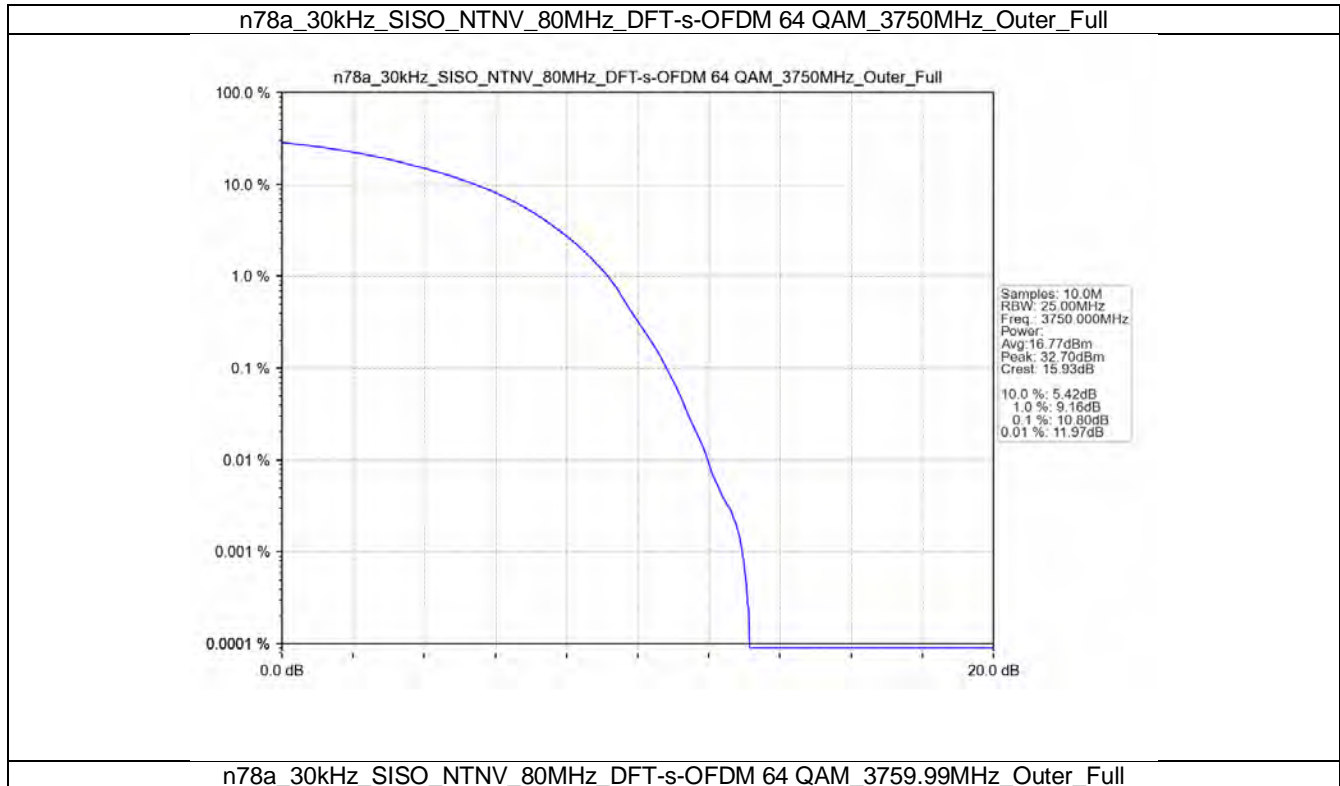


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Rev.: 01

Page: 503 of 1458



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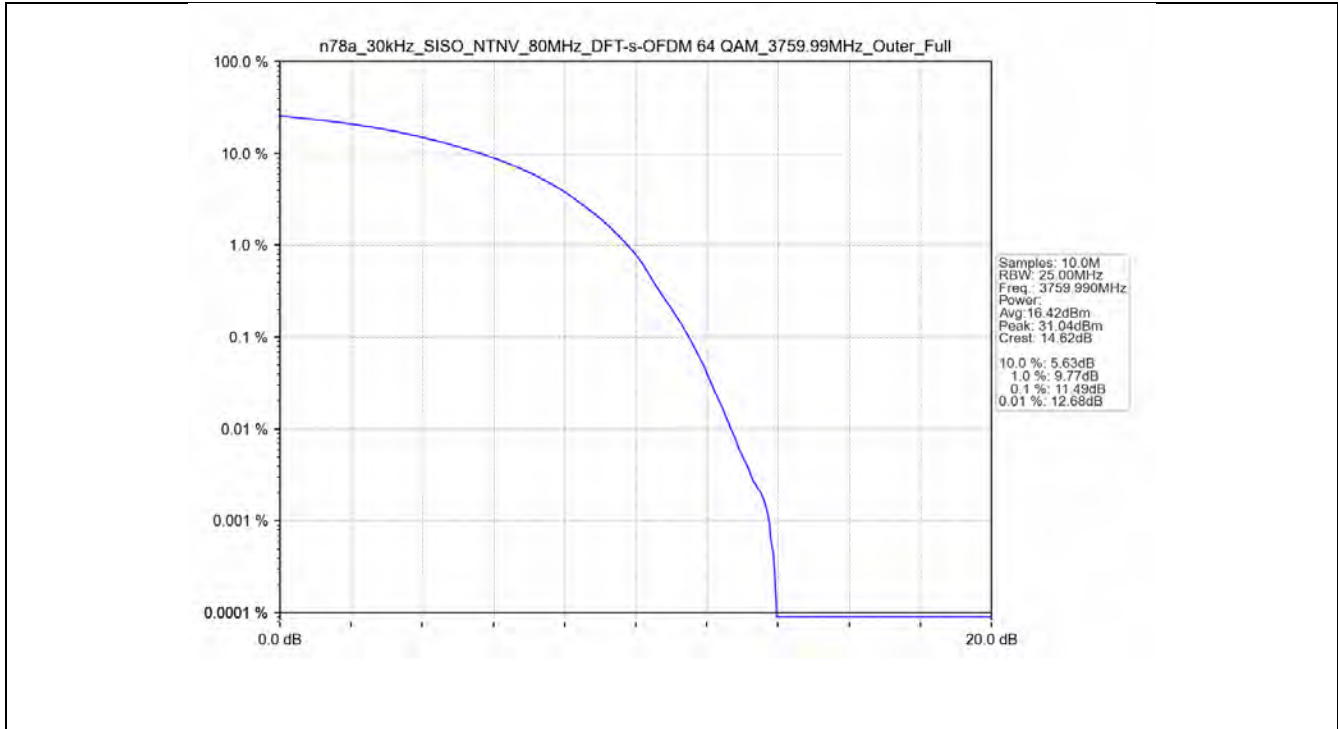


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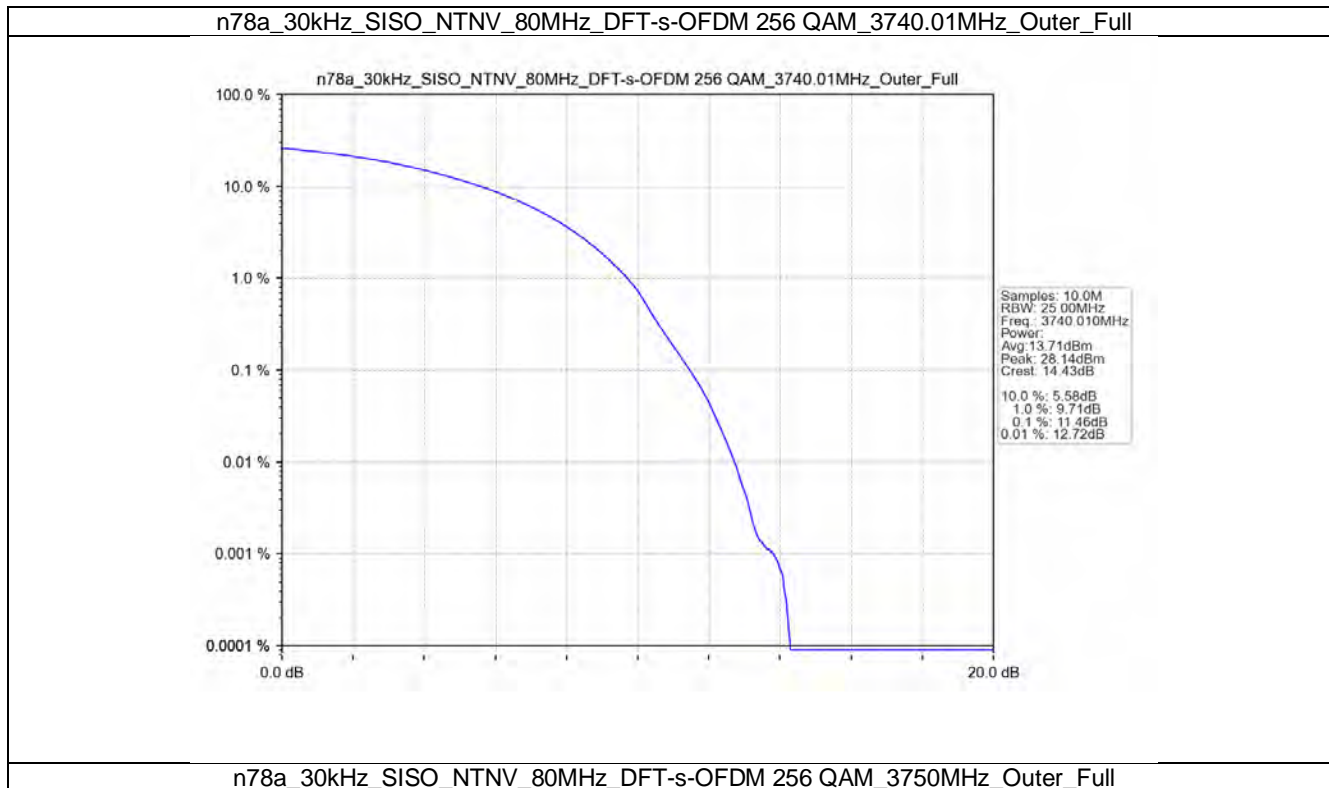
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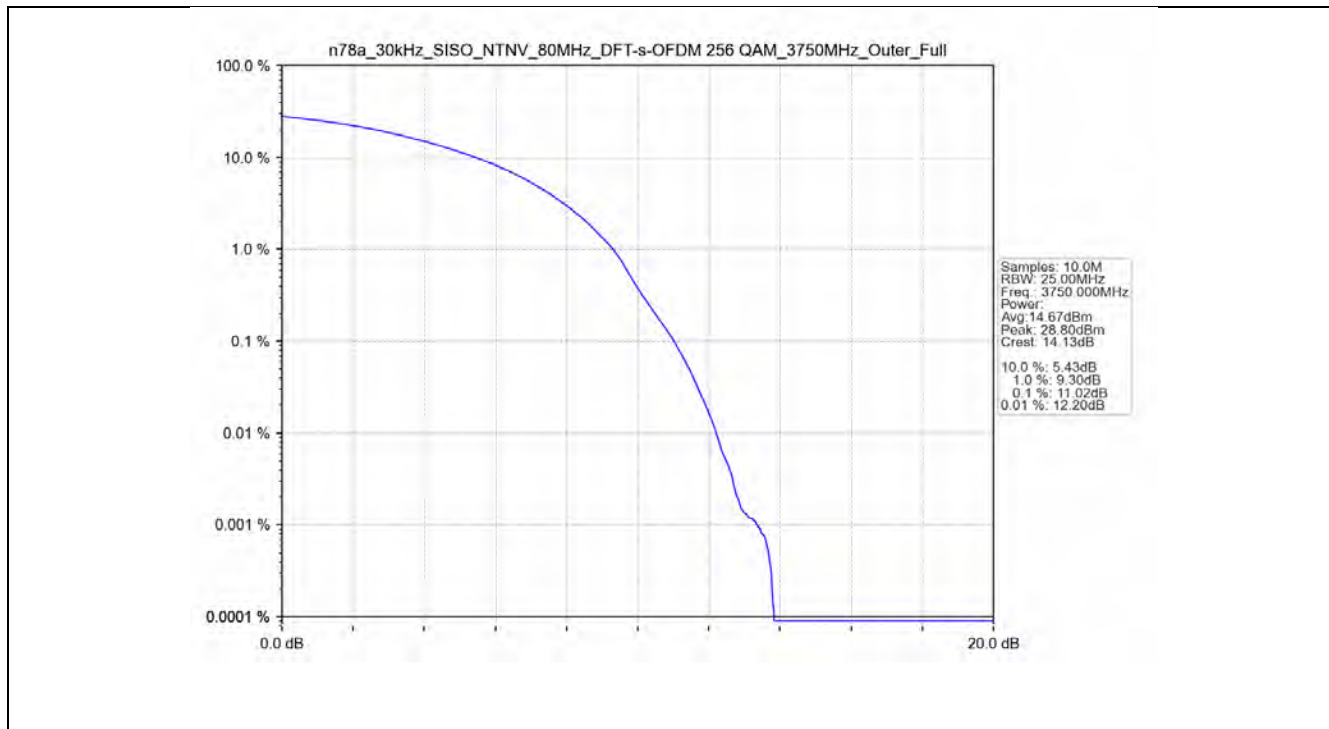
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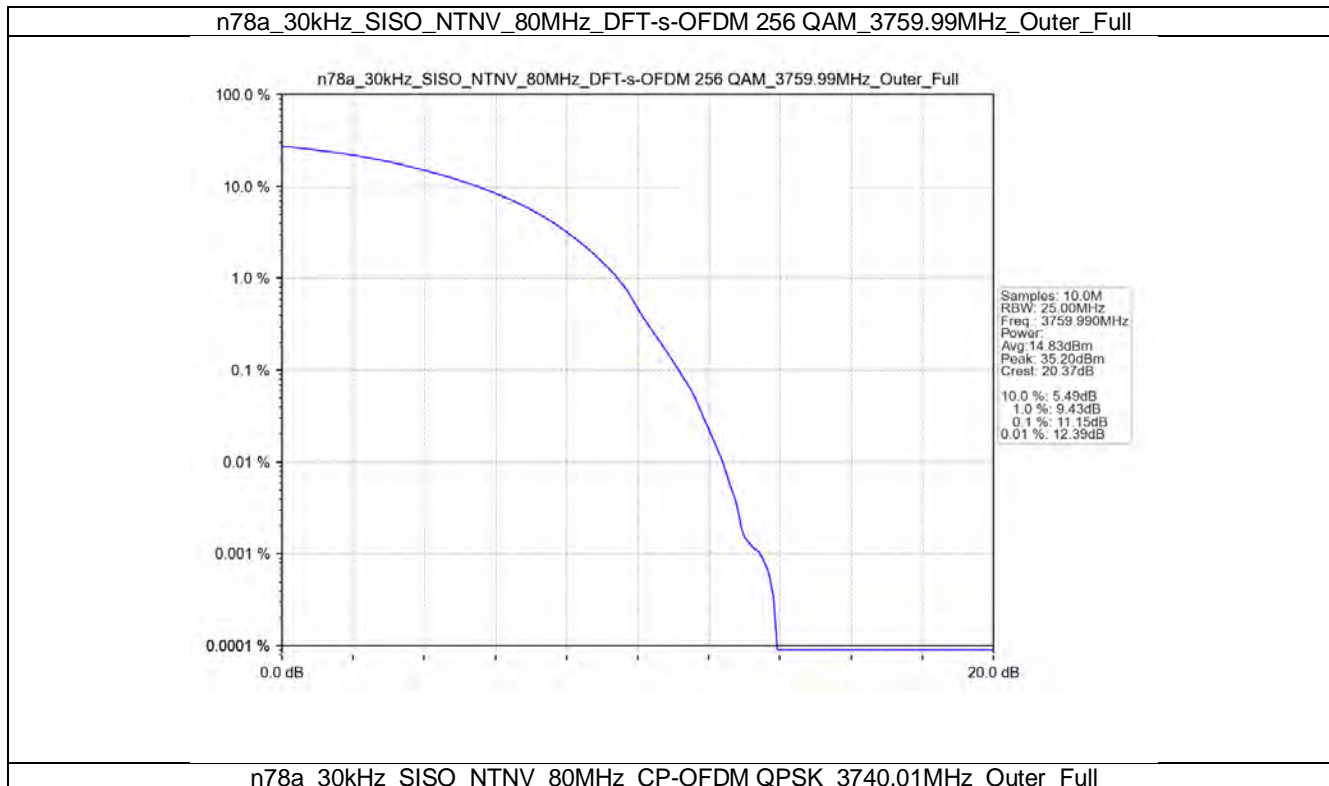
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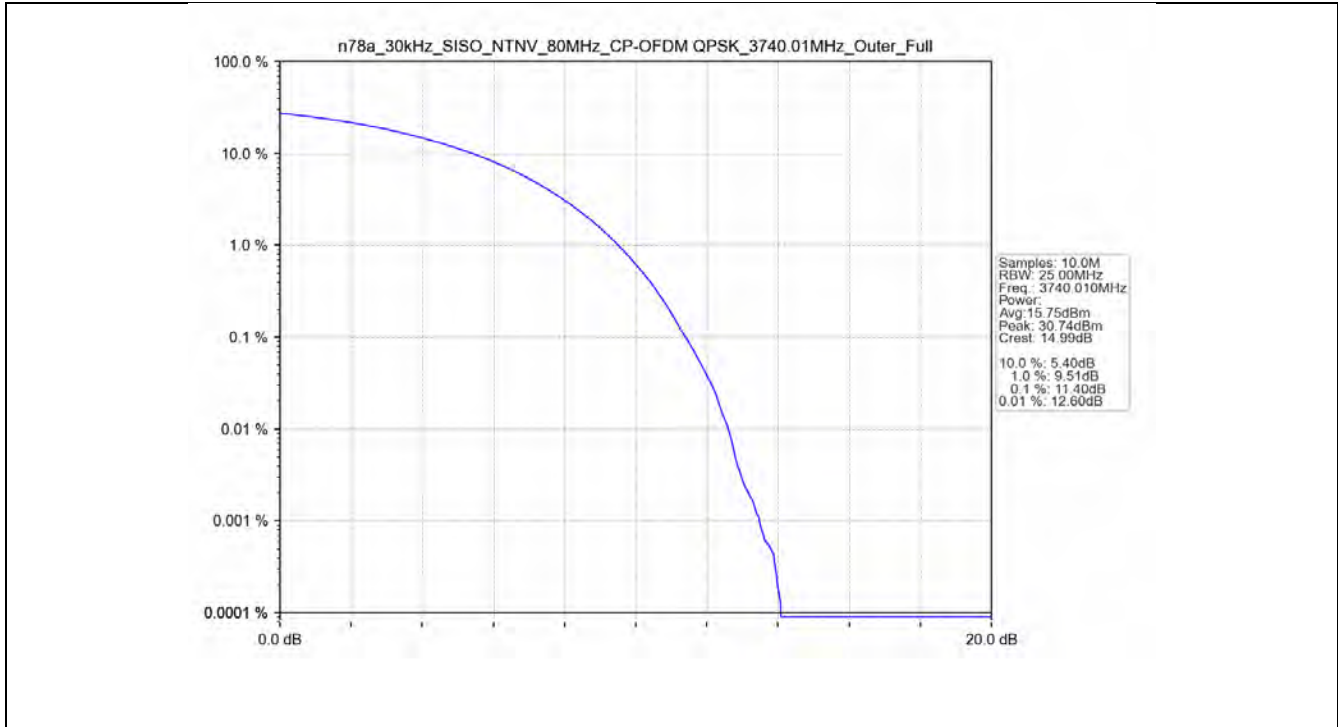


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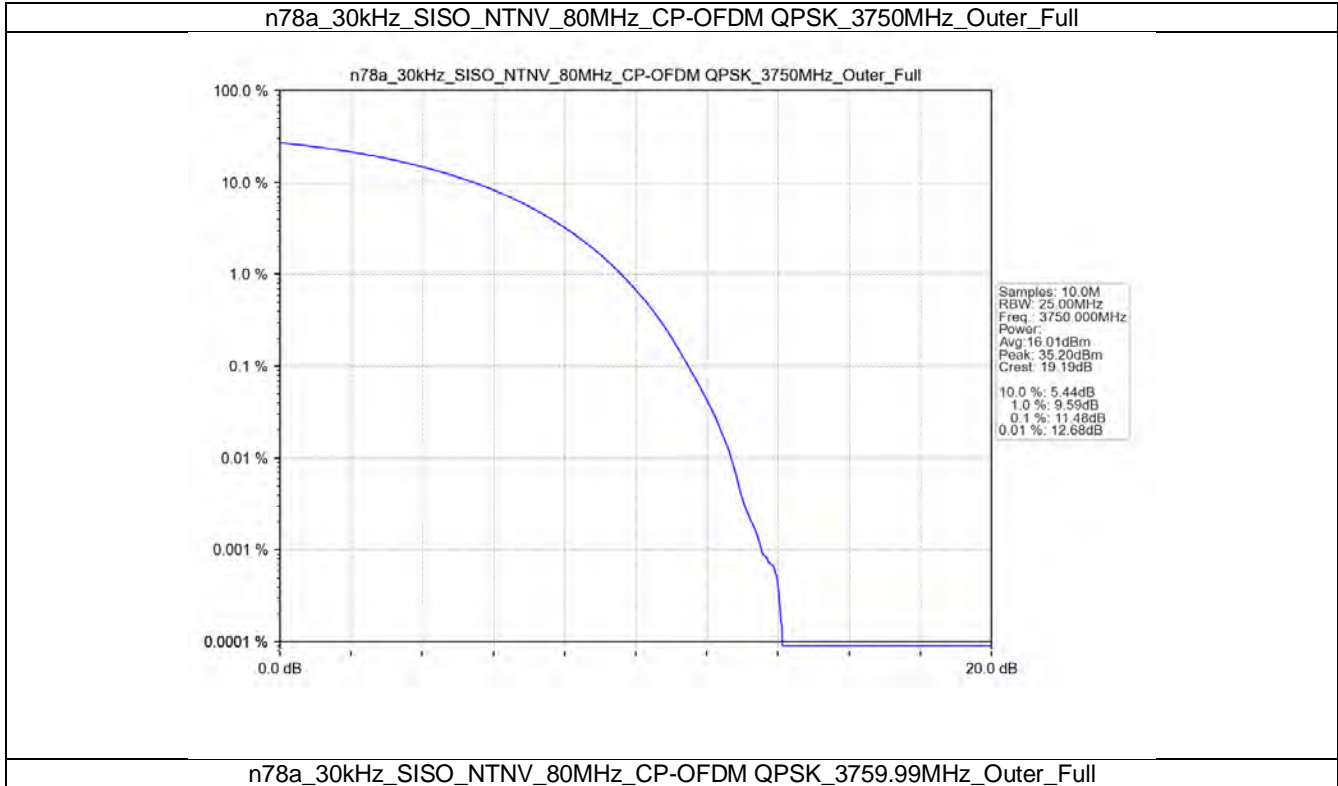


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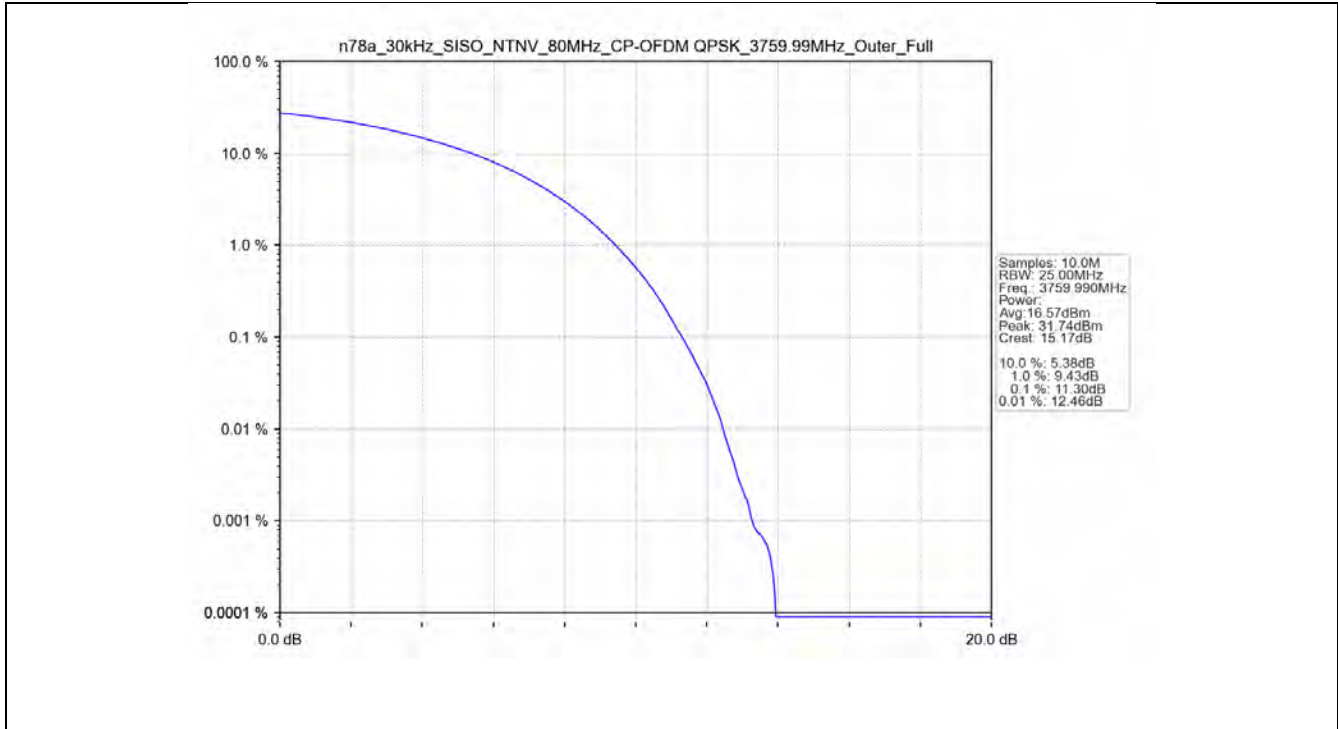


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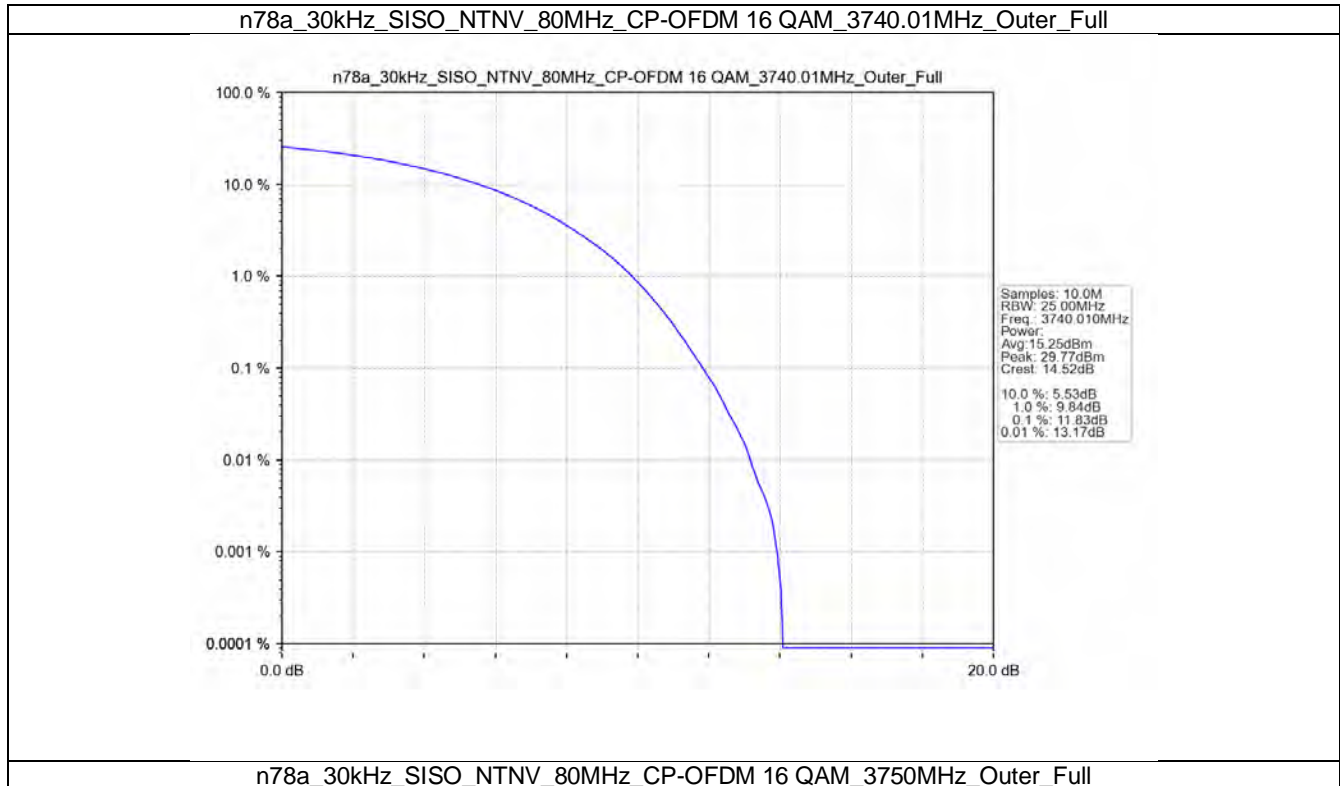


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Rev.: 01

Page: 511 of 1458



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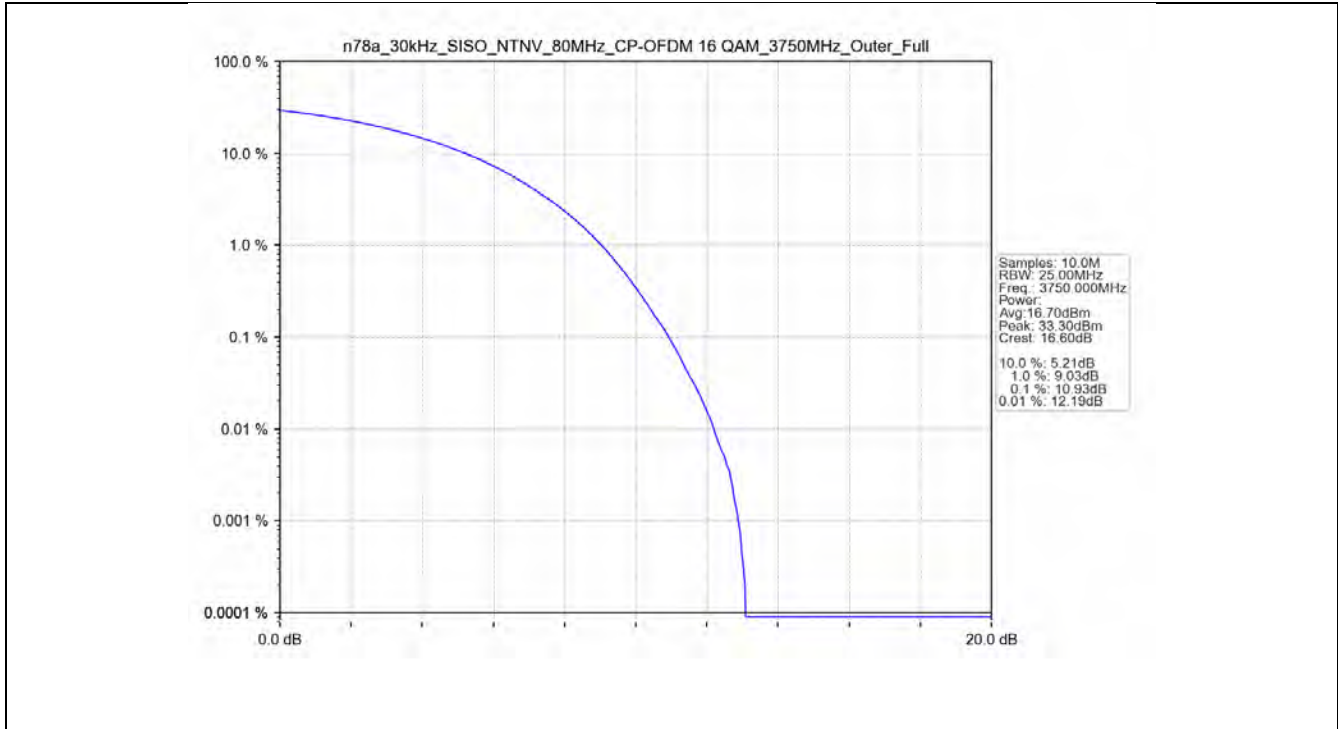


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Report No.: SZCR240100038409

Rev.: 01

Page: 512 of 1458



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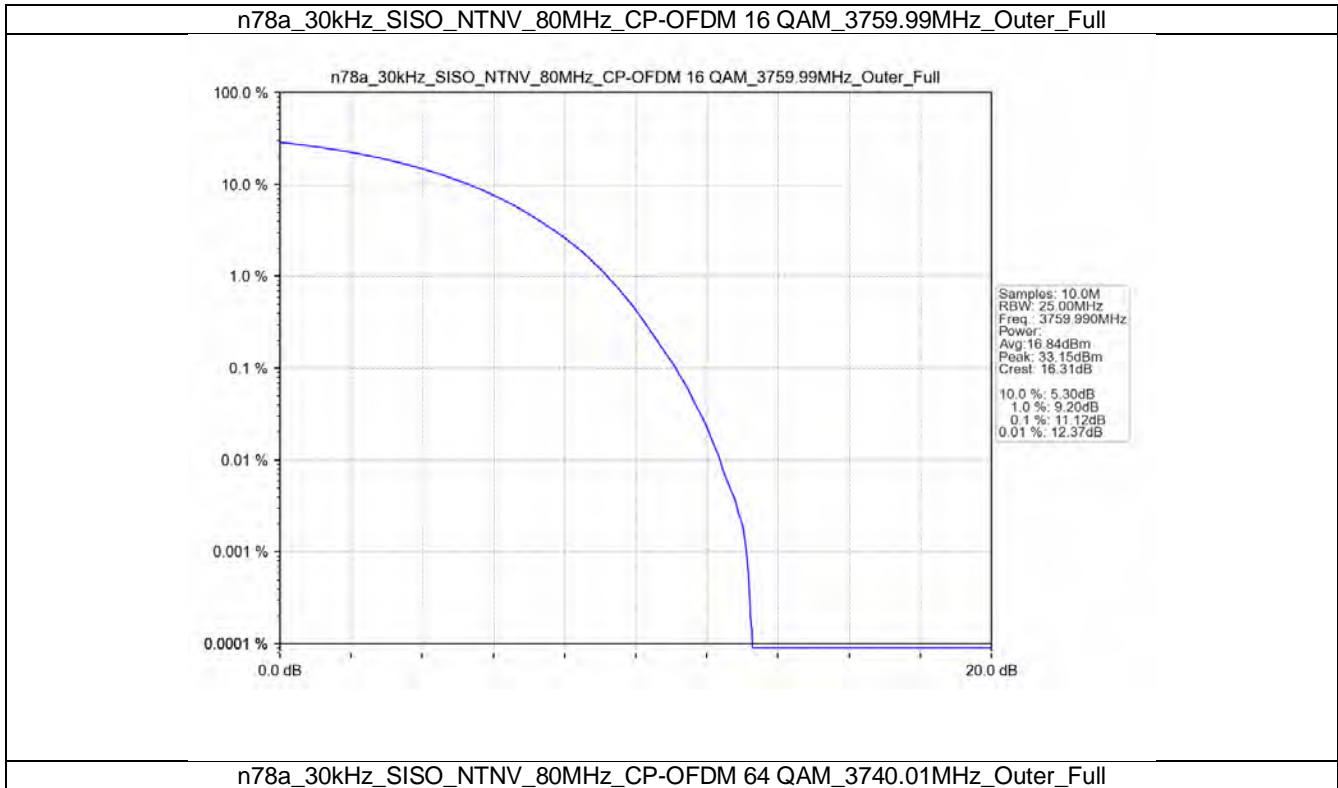


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Report No.: SZCR240100038409

Rev.: 01

Page: 513 of 1458



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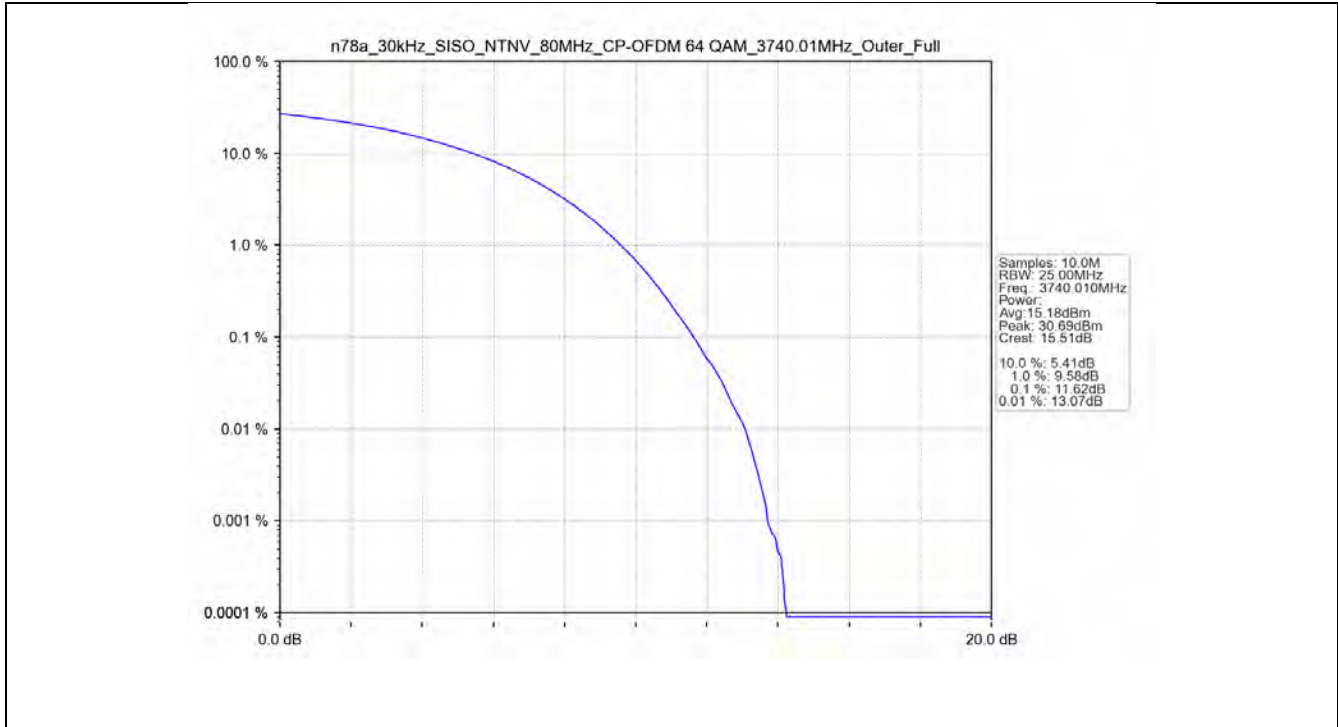


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Report No.: SZCR240100038409

Rev.: 01

Page: 514 of 1458



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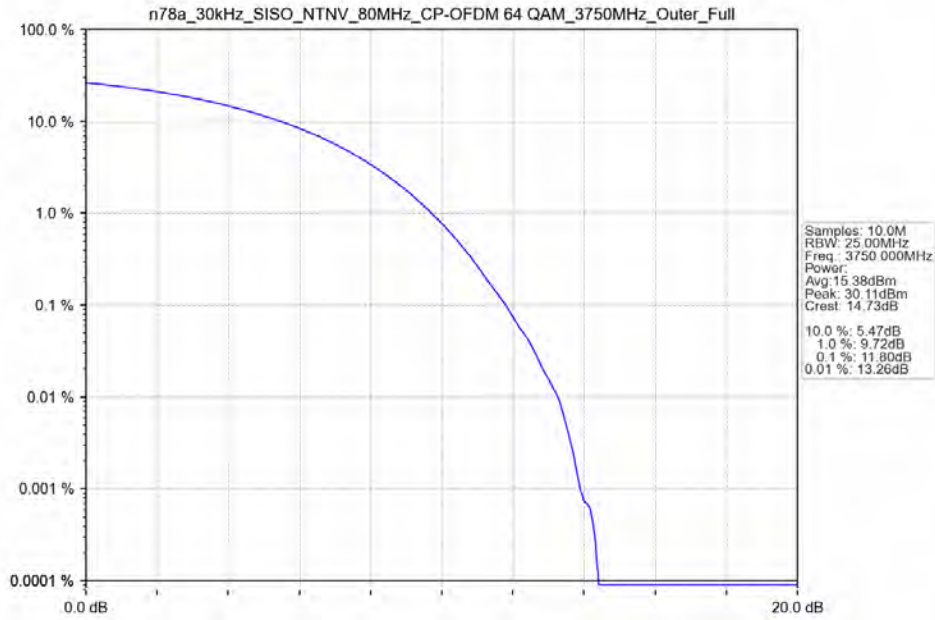
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Report No.: SZCR240100038409

Rev.: 01

Page: 515 of 1458

n78a\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 64 QAM\_3750MHz\_Outer\_Full



n78a\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM 64 QAM\_3759.99MHz\_Outer\_Full



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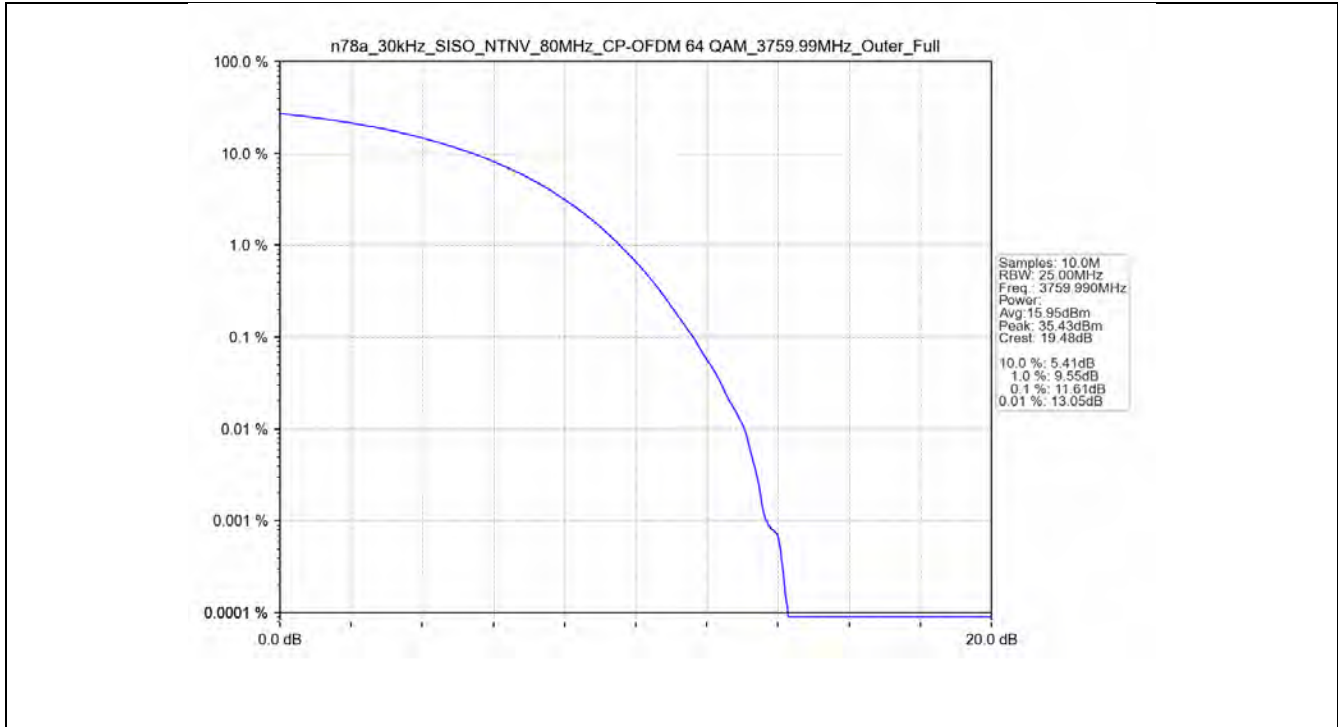


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Report No.: SZCR240100038409

Rev.: 01

Page: 516 of 1458



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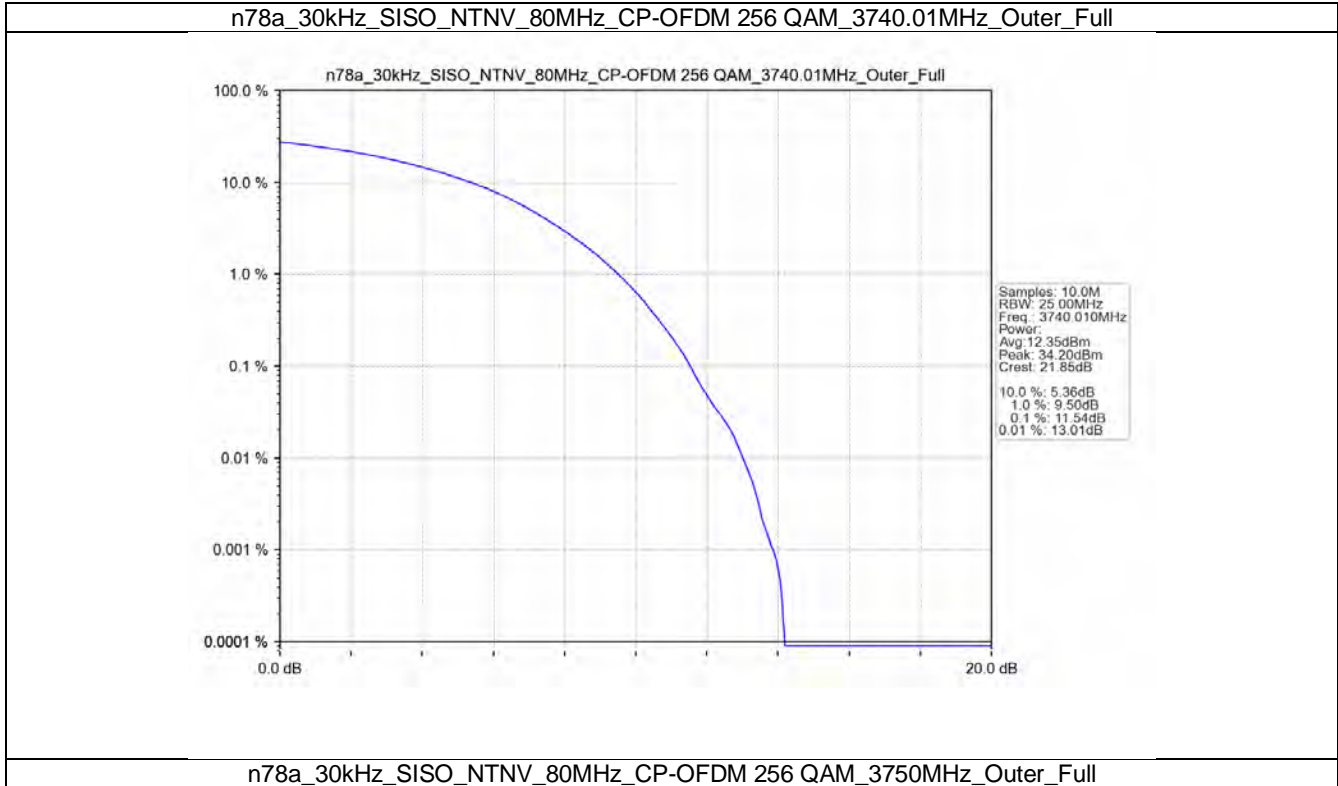


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Rev.: 01

Page: 517 of 1458



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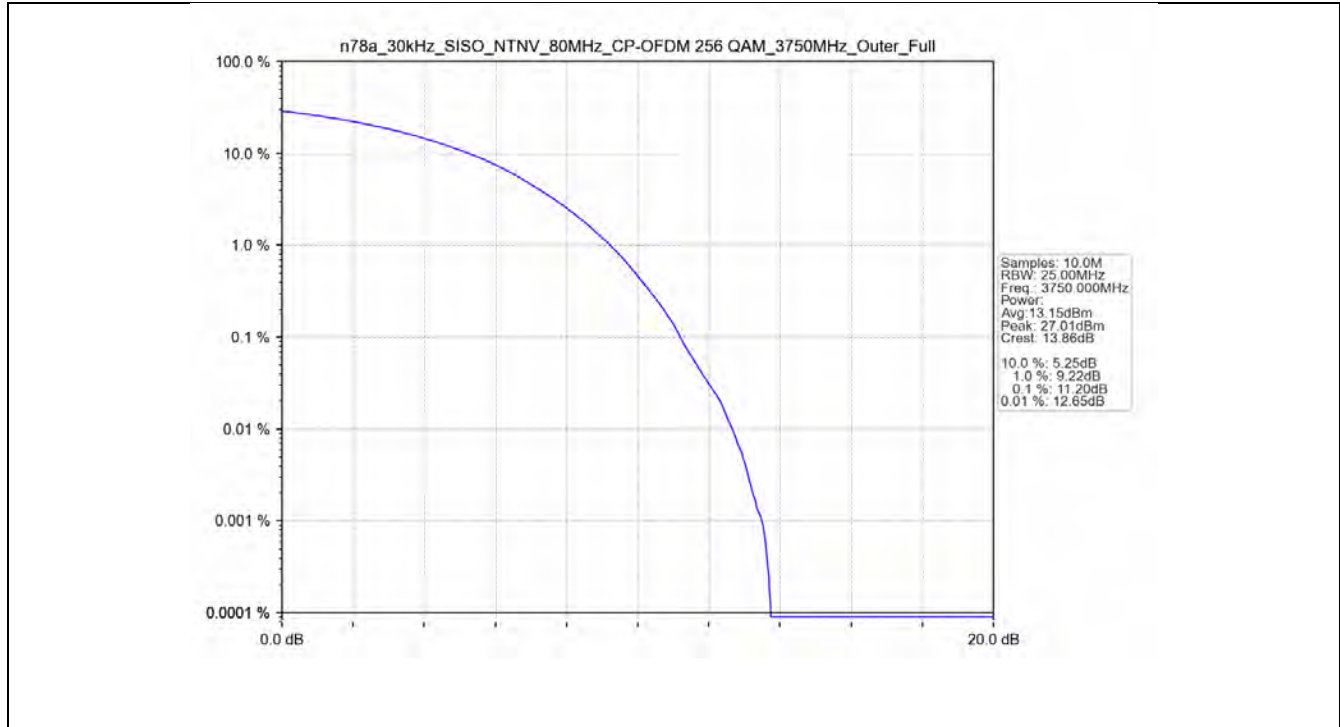


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Rev.: 01

Page: 518 of 1458



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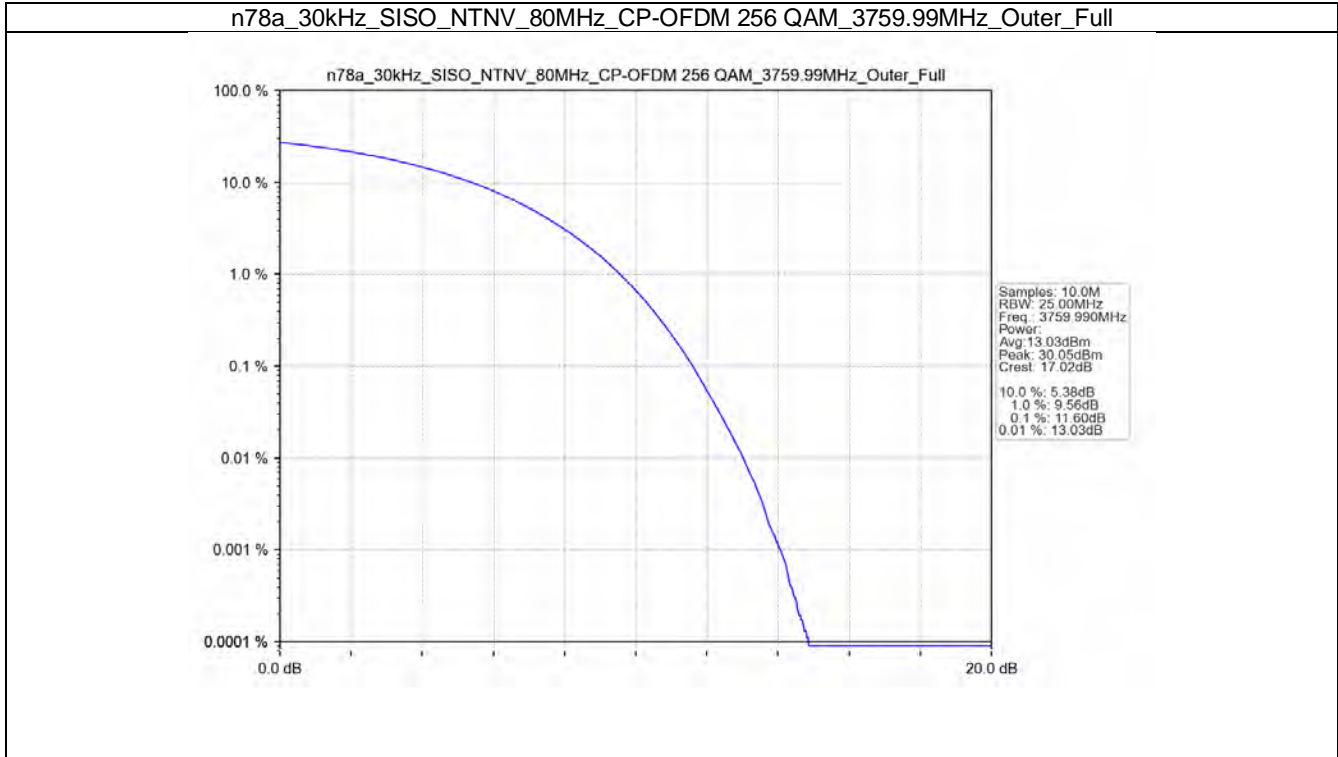


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Rev.: 01

Page: 519 of 1458



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Report No.: SZCR240100038409

Rev.: 01

Page: 520 of 1458

## 4.8 30k\_SISO\_90MHz\_NTNV

### 4.8.1 Test Result

5G NR n78a SCS=30kHz SISO 90MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3745.02	Outer_Full	11.27	/	/	<=13	Pass
	3750	Outer_Full	10.00	/	/	<=13	Pass
	3754.98	Outer_Full	10.25	/	/	<=13	Pass
DFT-s-OFDM QPSK	3745.02	Outer_Full	10.86	/	/	<=13	Pass
	3750	Outer_Full	10.58	/	/	<=13	Pass
	3754.98	Outer_Full	11.98	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3745.02	Outer_Full	11.04	/	/	<=13	Pass
	3750	Outer_Full	11.72	/	/	<=13	Pass
	3754.98	Outer_Full	11.43	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3745.02	Outer_Full	11.57	/	/	<=13	Pass
	3750	Outer_Full	11.86	/	/	<=13	Pass
	3754.98	Outer_Full	11.45	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3745.02	Outer_Full	11.30	/	/	<=13	Pass
	3750	Outer_Full	11.25	/	/	<=13	Pass
	3754.98	Outer_Full	11.34	/	/	<=13	Pass
CP-OFDM QPSK	3745.02	Outer_Full	11.24	/	/	<=13	Pass
	3750	Outer_Full	11.84	/	/	<=13	Pass
	3754.98	Outer_Full	11.93	/	/	<=13	Pass
CP-OFDM 16 QAM	3745.02	Outer_Full	12.68	/	/	<=13	Pass
	3750	Outer_Full	11.31	/	/	<=13	Pass
	3754.98	Outer_Full	11.64	/	/	<=13	Pass
CP-OFDM 64 QAM	3745.02	Outer_Full	12.18	/	/	<=13	Pass
	3750	Outer_Full	11.60	/	/	<=13	Pass
	3754.98	Outer_Full	11.56	/	/	<=13	Pass
CP-OFDM 256 QAM	3745.02	Outer_Full	11.48	/	/	<=13	Pass
	3750	Outer_Full	11.97	/	/	<=13	Pass
	3754.98	Outer_Full	12.56	/	/	<=13	Pass



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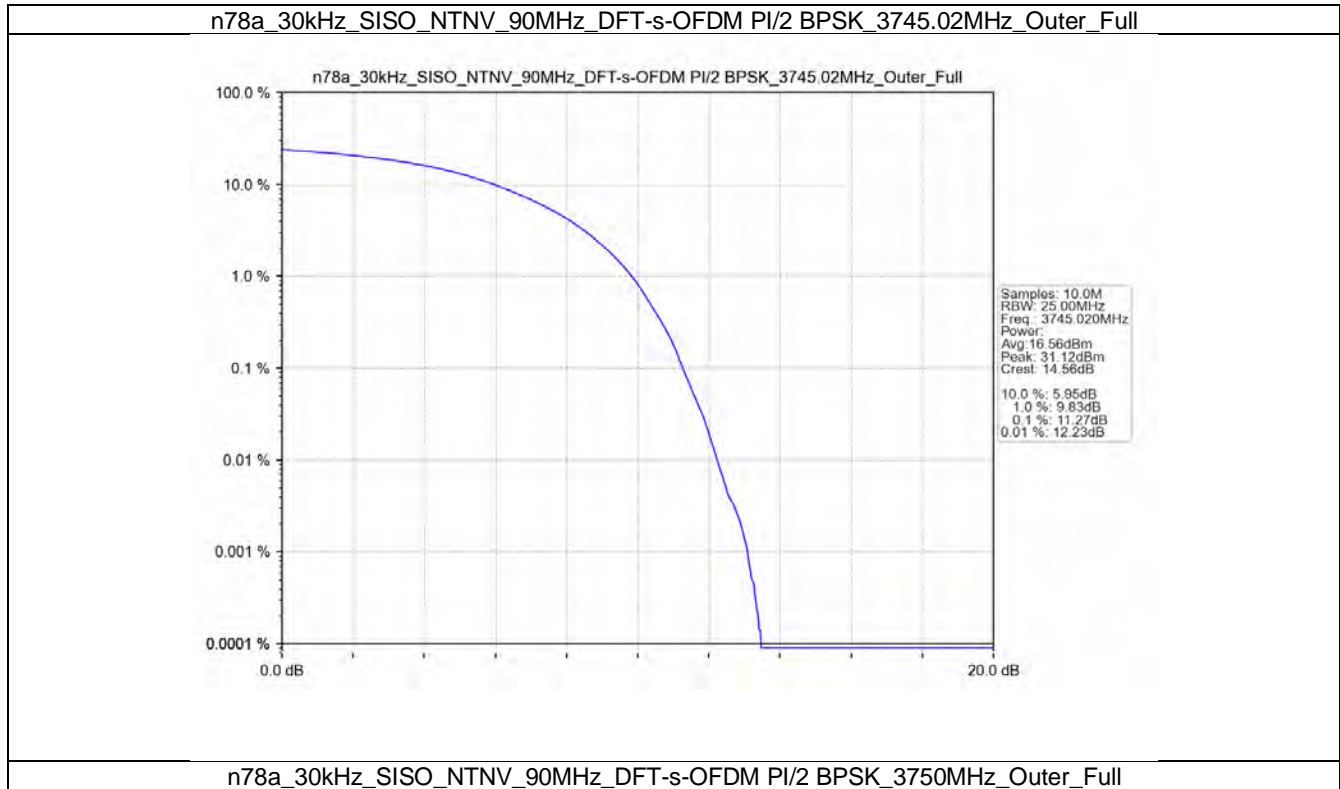
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4.8.2 Test Graph



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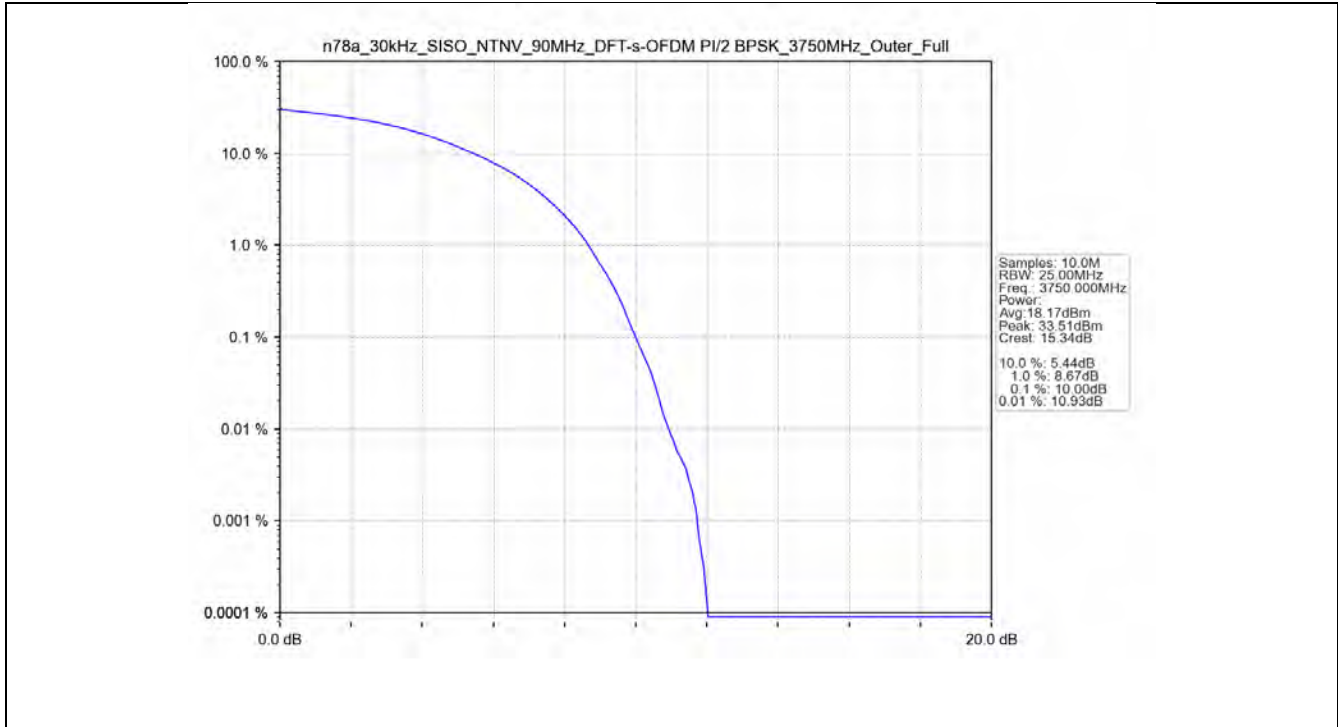


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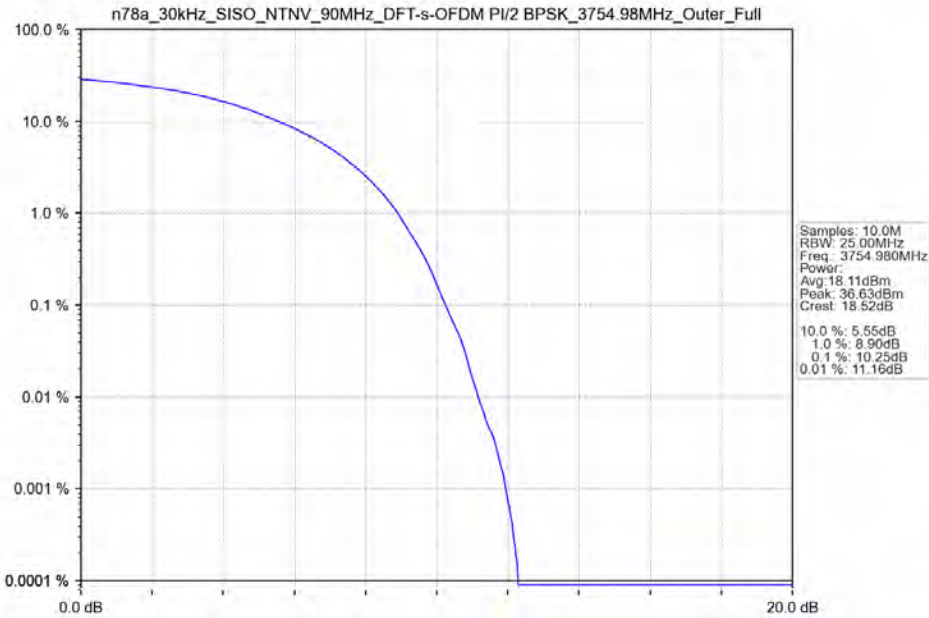
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Report No.: SZCR240100038409

Rev.: 01

Page: 523 of 1458

n78a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM PI/2 BPSK\_3754.98MHz\_Outer\_Full



n78a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM QPSK\_3745.02MHz\_Outer\_Full



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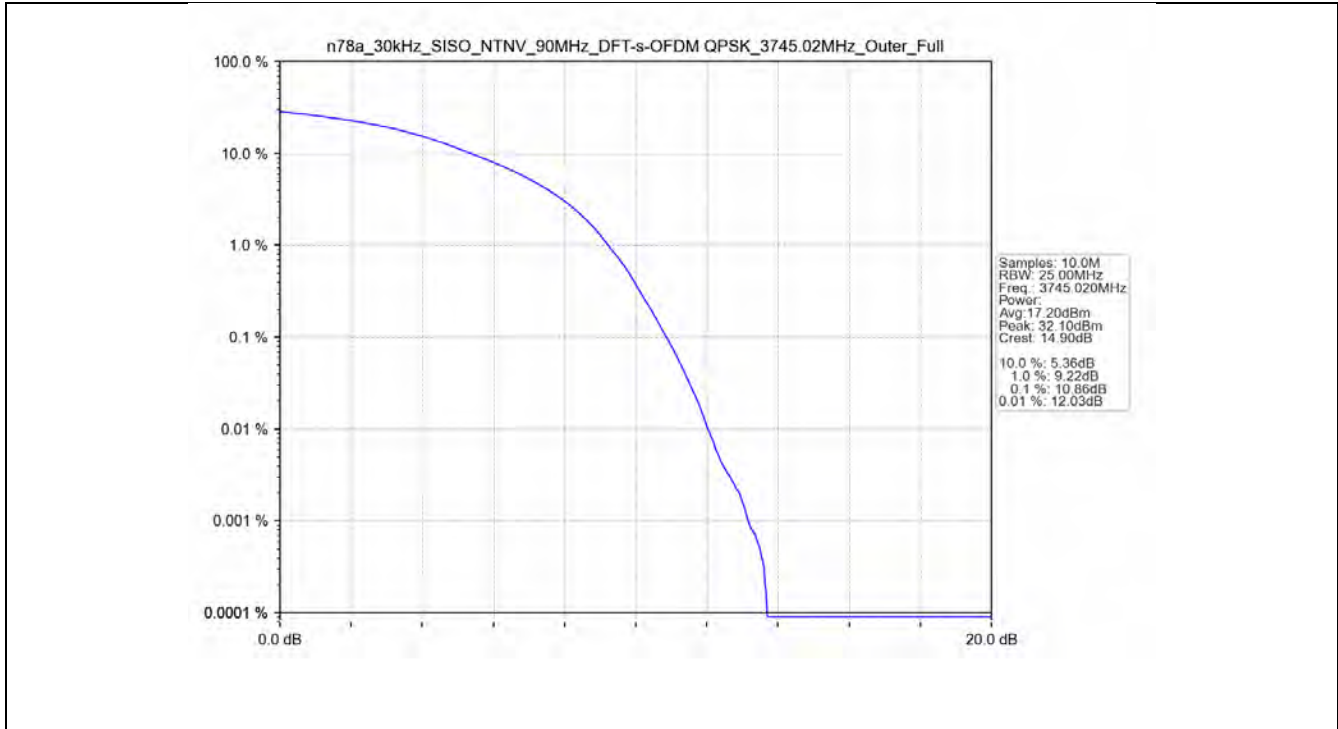


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Rev.: 01

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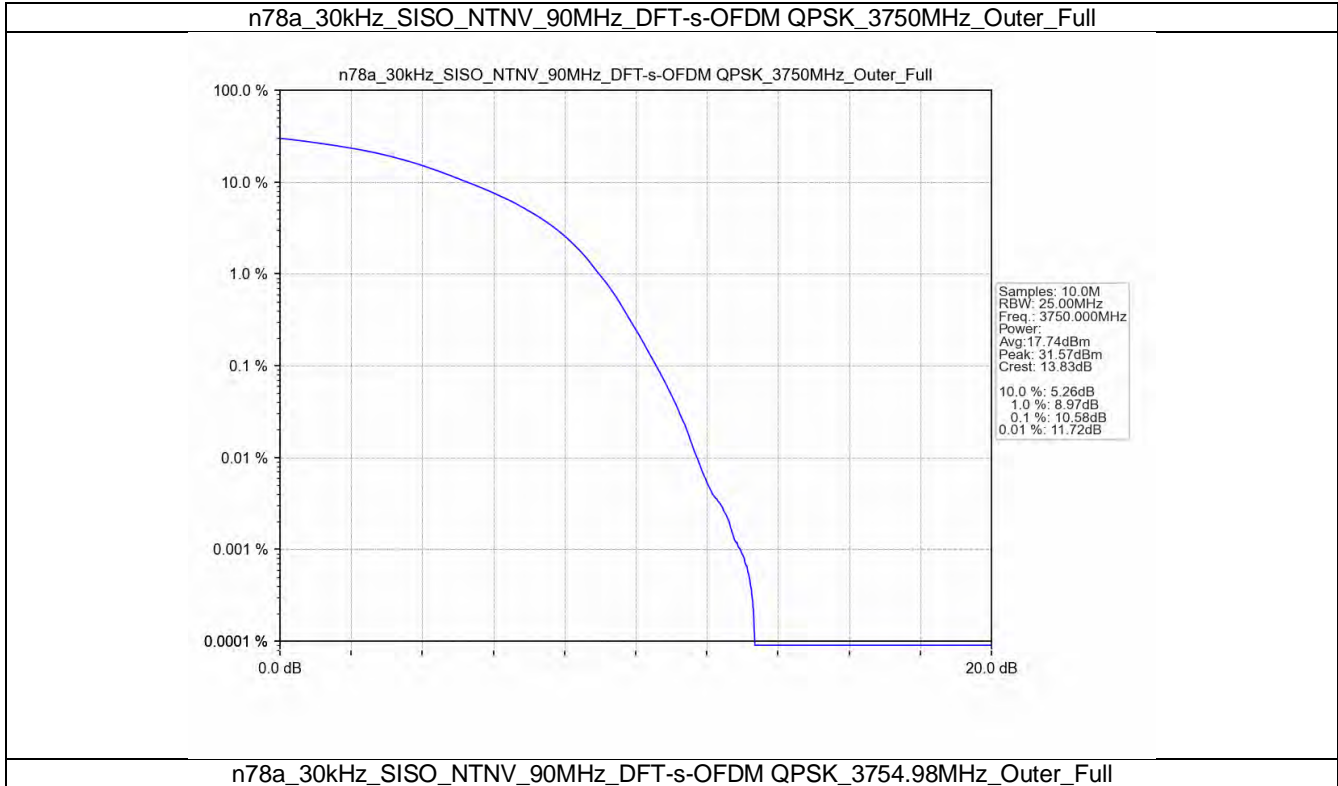


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Report No.: SZCR240100038409

Rev.: 01

Page: 525 of 1458



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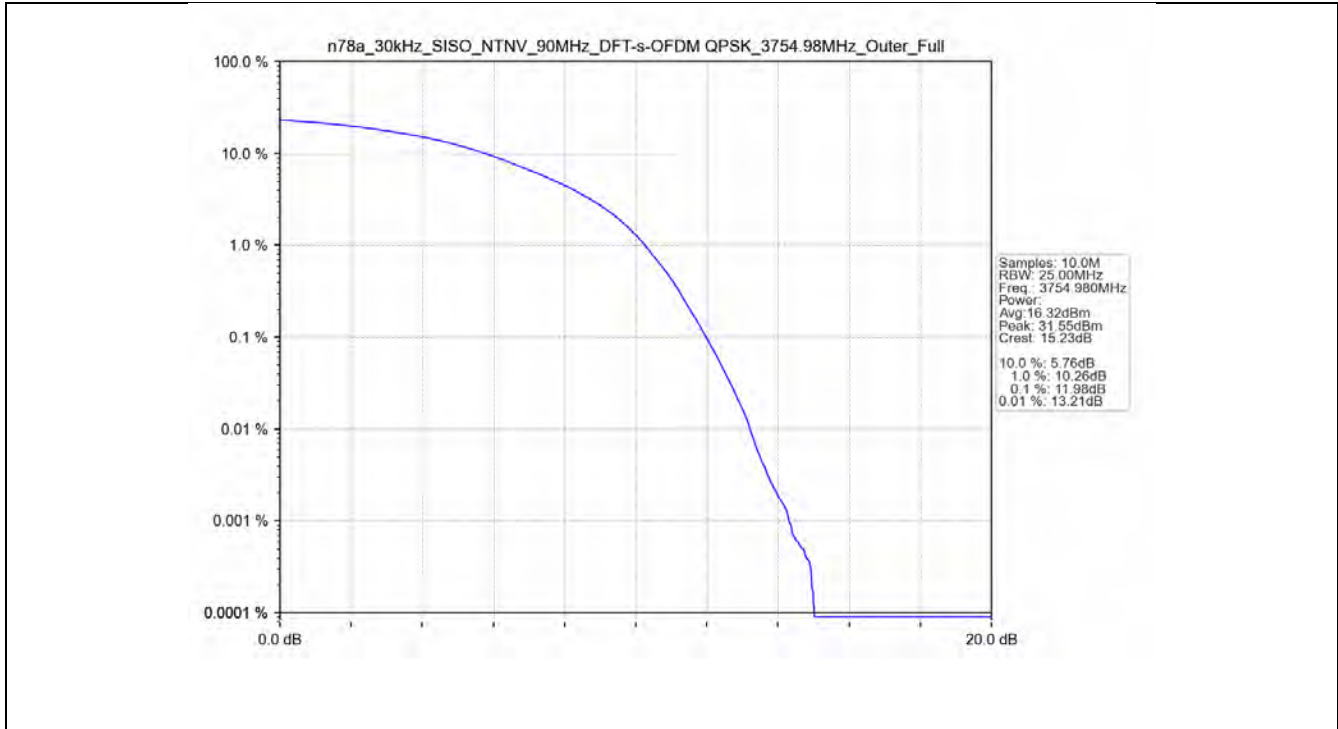


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Report No.: SZCR240100038409

Rev.: 01

Page: 526 of 1458



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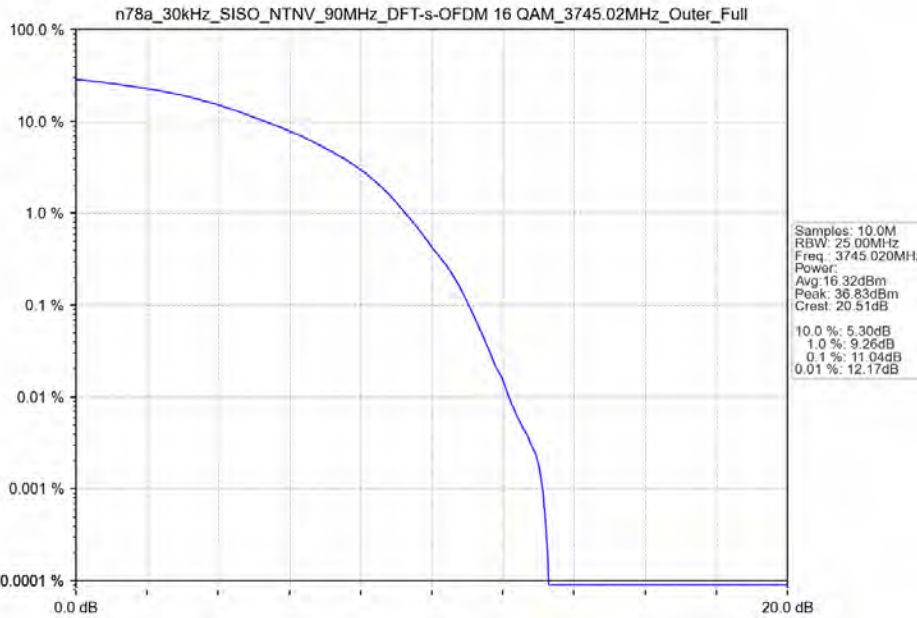
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Report No.: SZCR240100038409

Rev.: 01

Page: 527 of 1458

n78a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_16\_QAM\_3745.02MHz\_Outer\_Full



n78a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM\_16\_QAM\_3750MHz\_Outer\_Full



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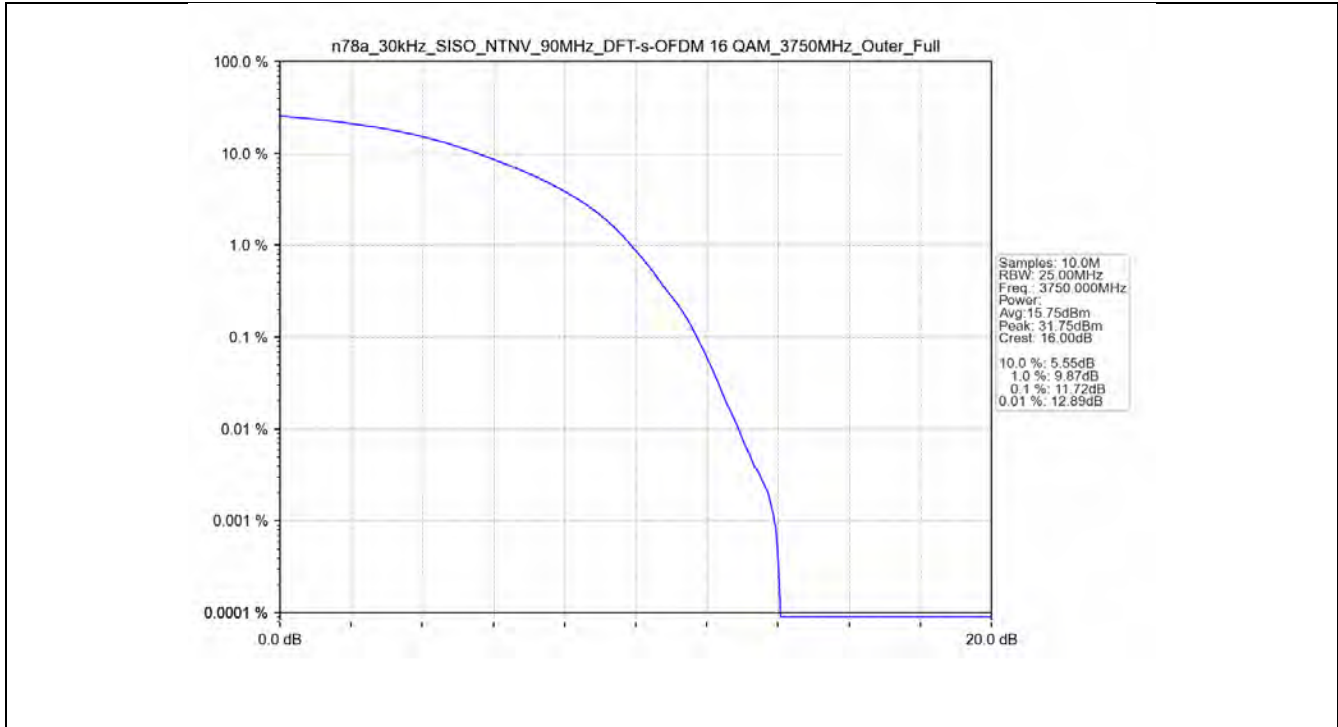


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Report No.: SZCR240100038409

Rev.: 01

Page: 528 of 1458



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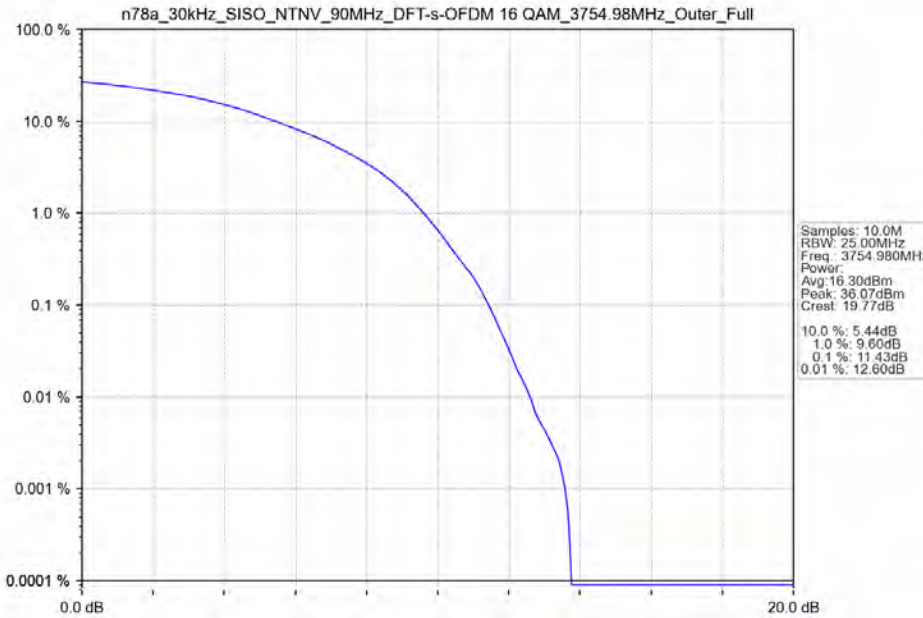
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Report No.: SZCR240100038409

Rev.: 01

Page: 529 of 1458

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n78a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 64 QAM\_3745.02MHz\_Outer\_Full



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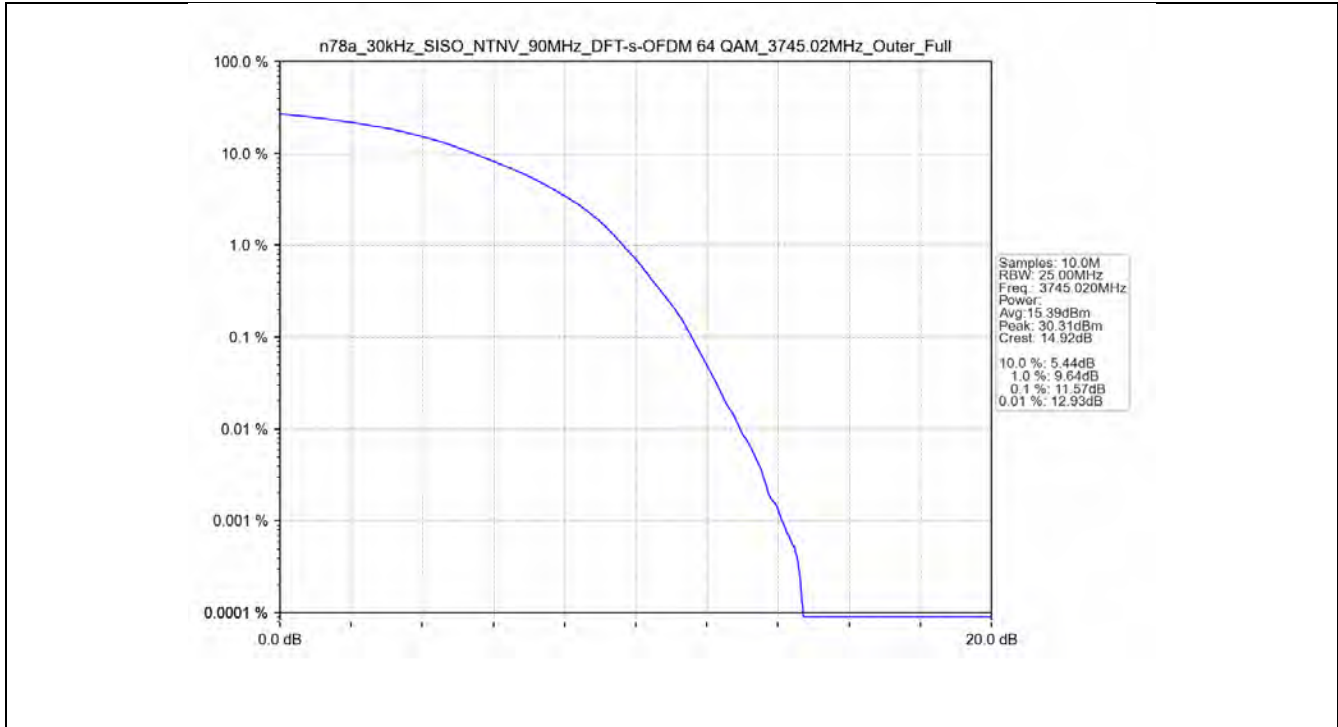


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Report No.: SZCR240100038409

Rev.: 01

Page: 530 of 1458



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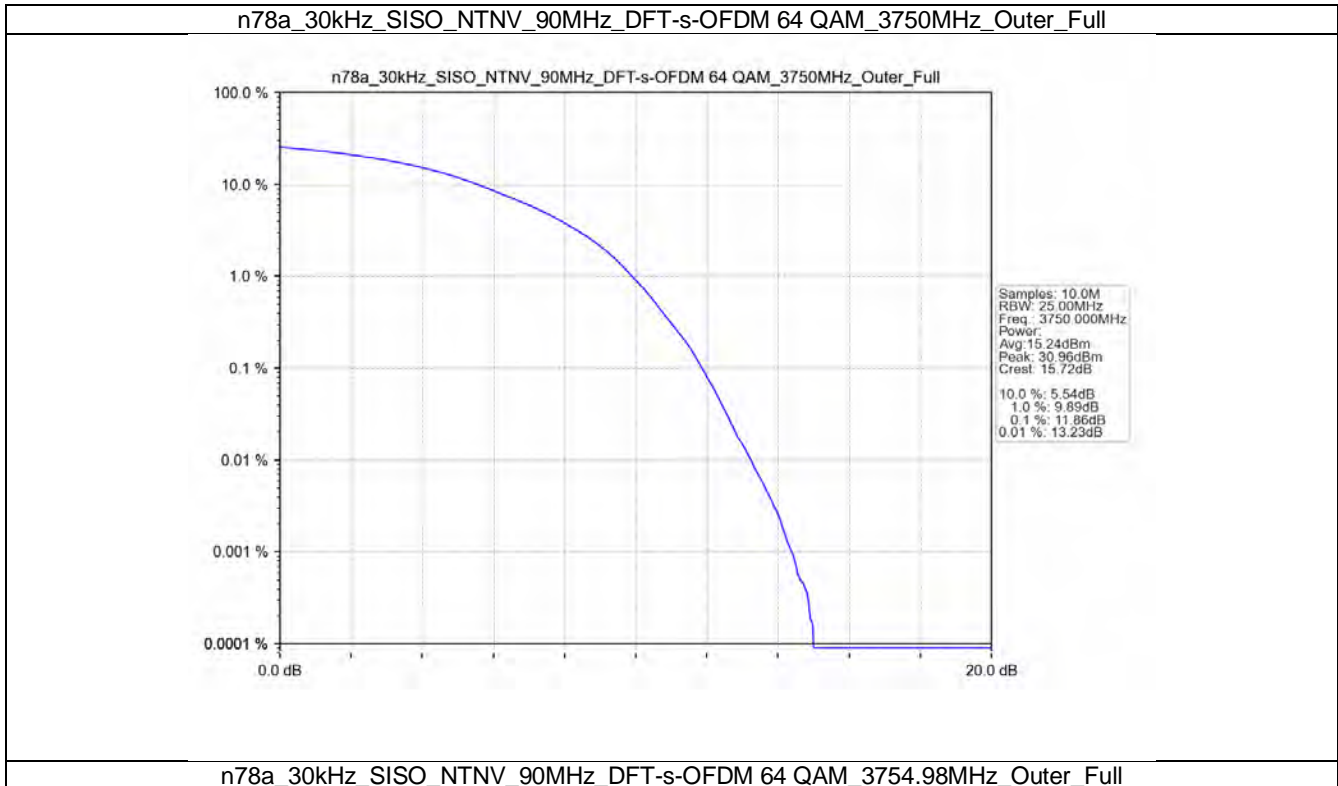


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Report No.: SZCR240100038409

Rev.: 01

Page: 531 of 1458



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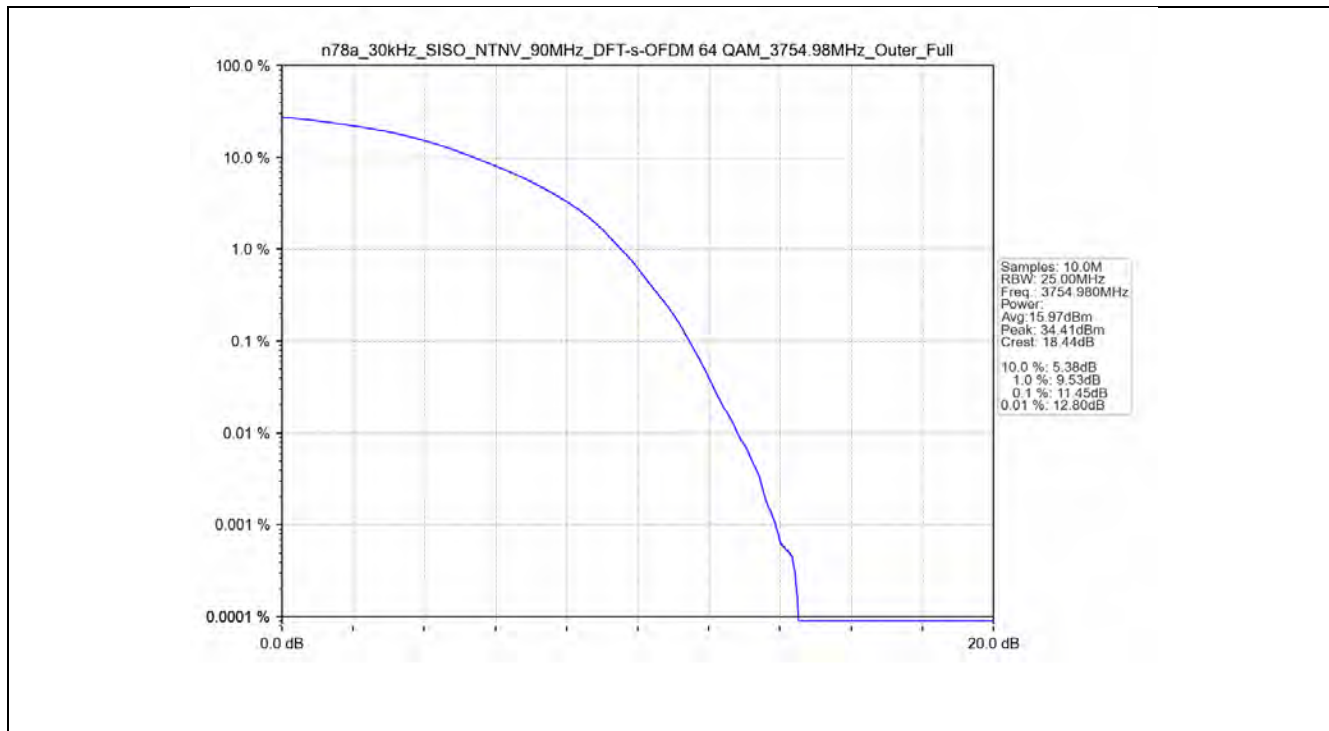
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 532 of 1458



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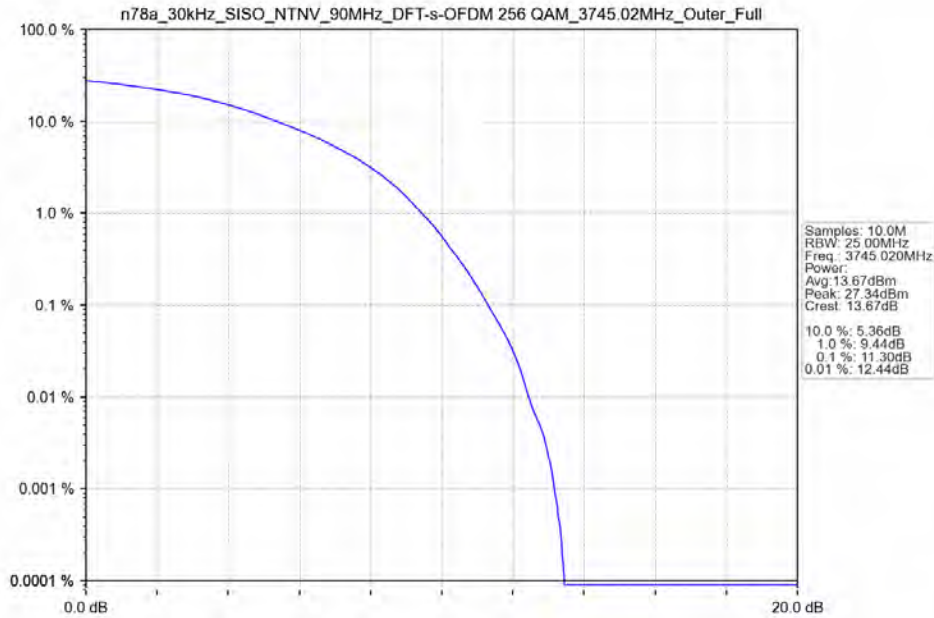
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Report No.: SZCR240100038409

Rev.: 01

Page: 533 of 1458

n78a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 256 QAM\_3745.02MHz\_Outer\_Full



n78a\_30kHz\_SISO\_NTNV\_90MHz\_DFT-s-OFDM 256 QAM\_3750MHz\_Outer\_Full



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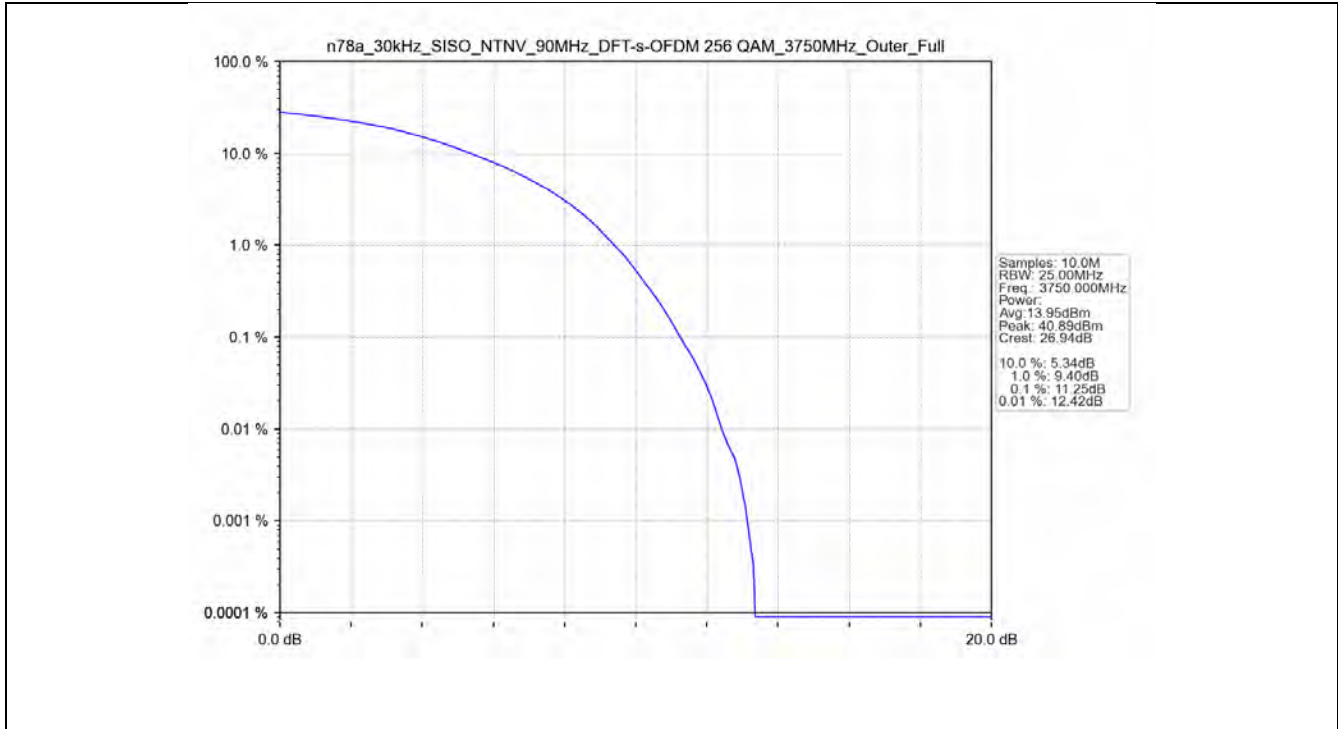


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Rev.: 01

Page: 534 of 1458



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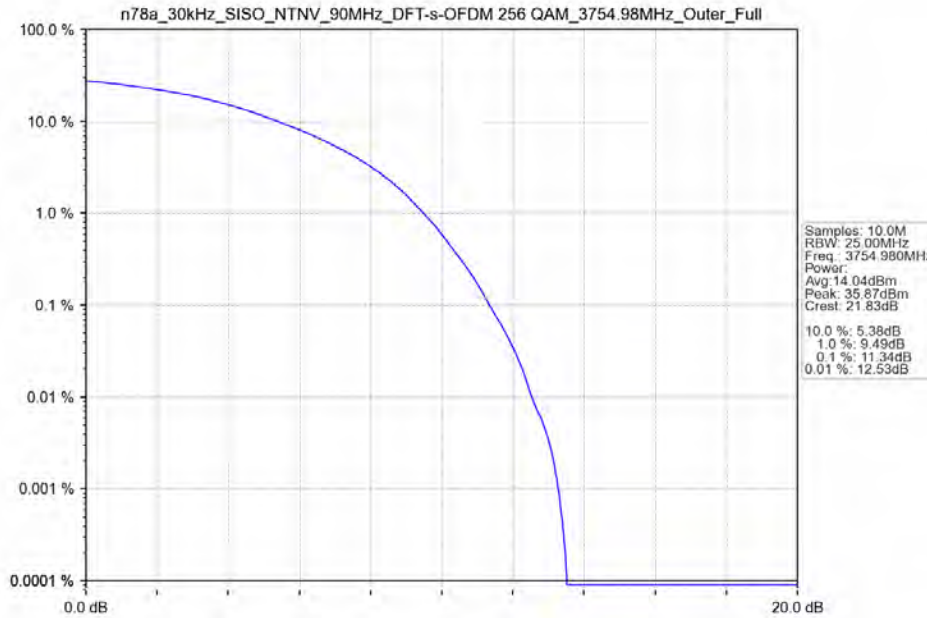
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Report No.: SZCR240100038409

Rev.: 01

Page: 535 of 1458

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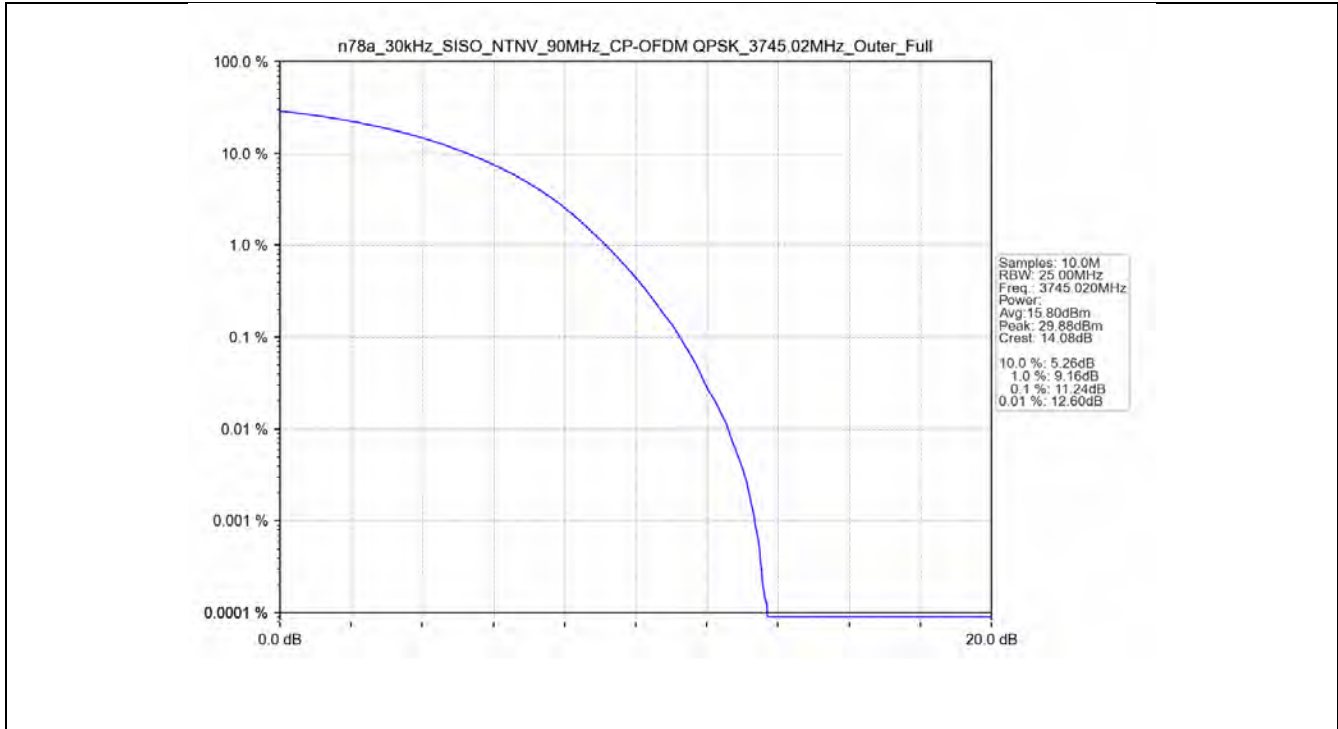


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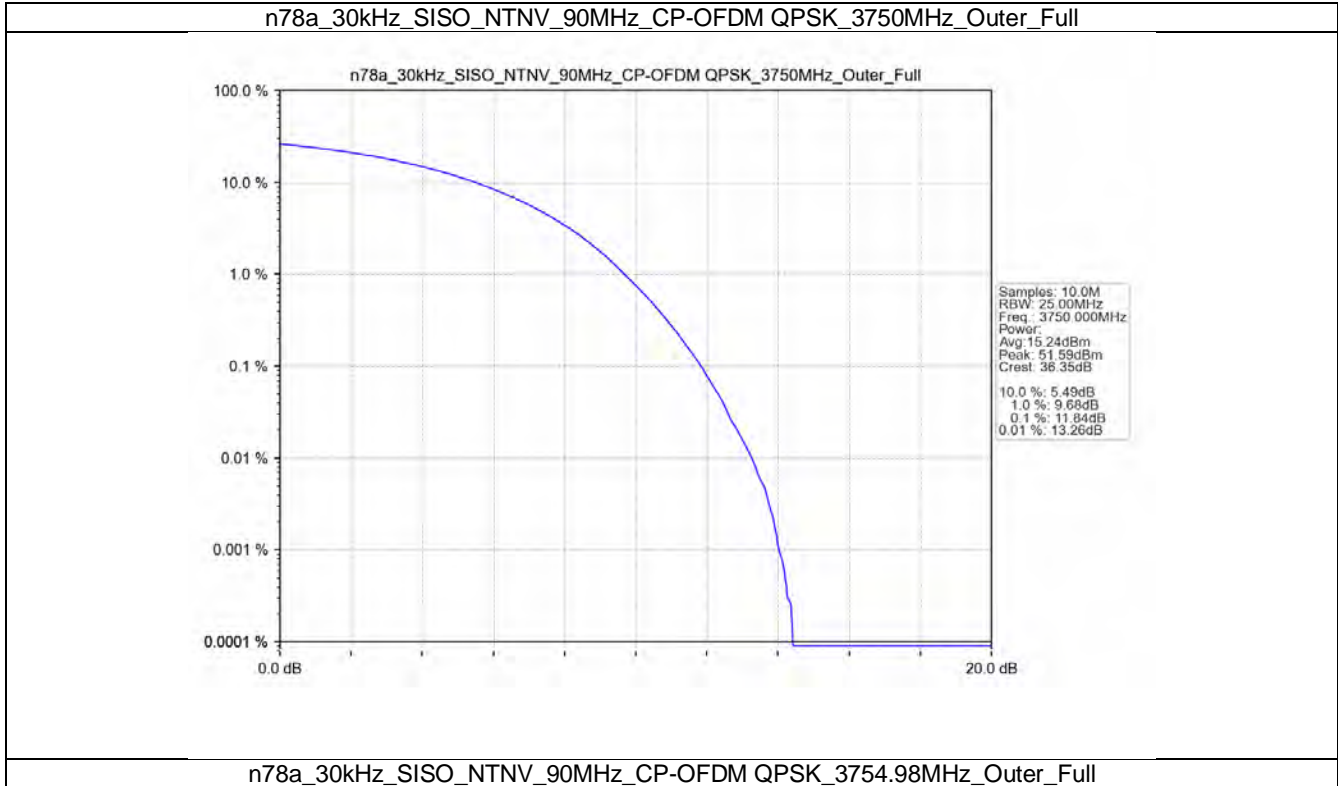


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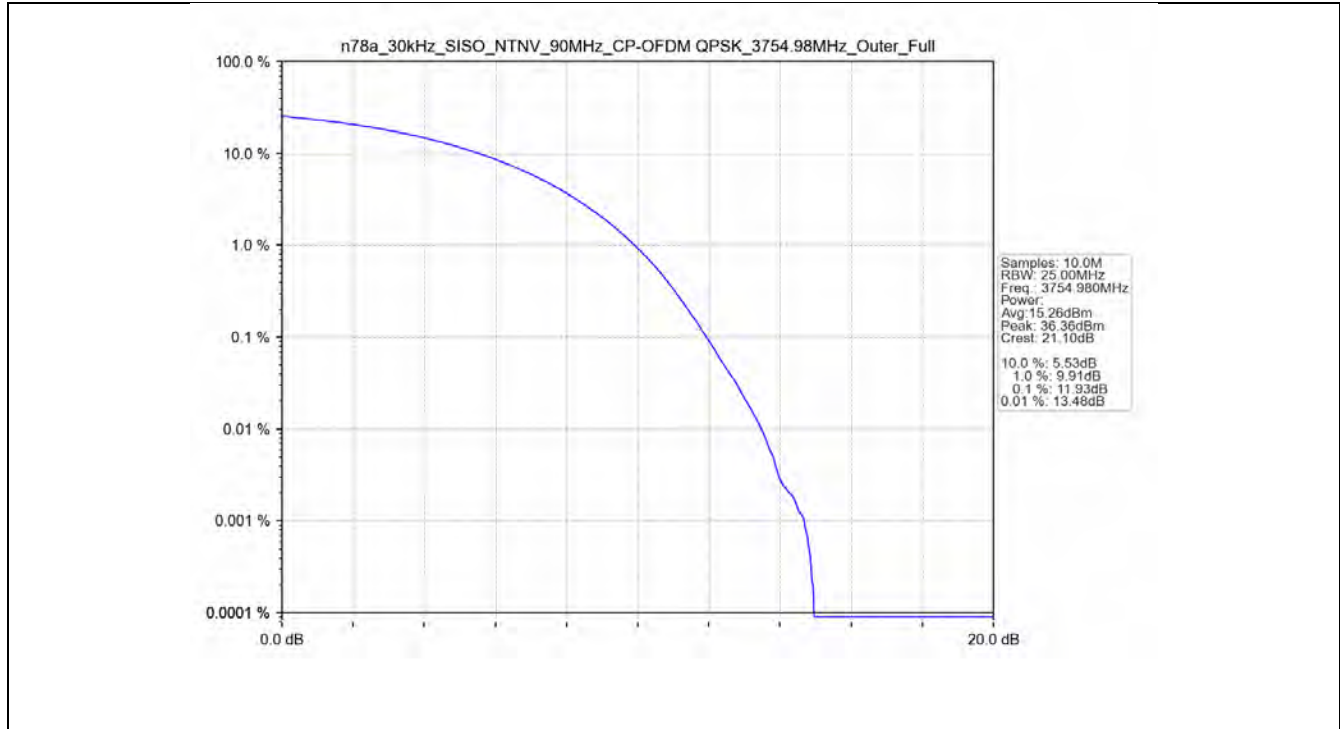


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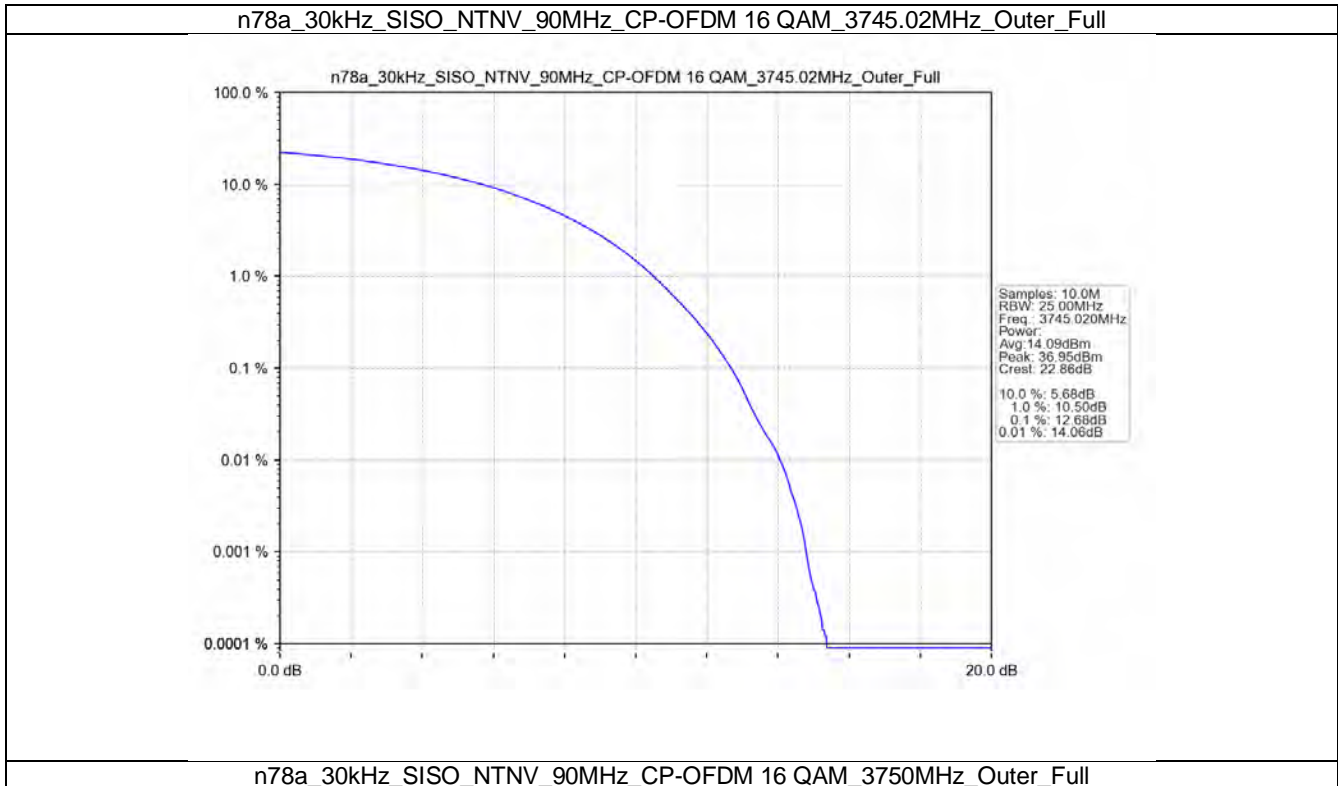


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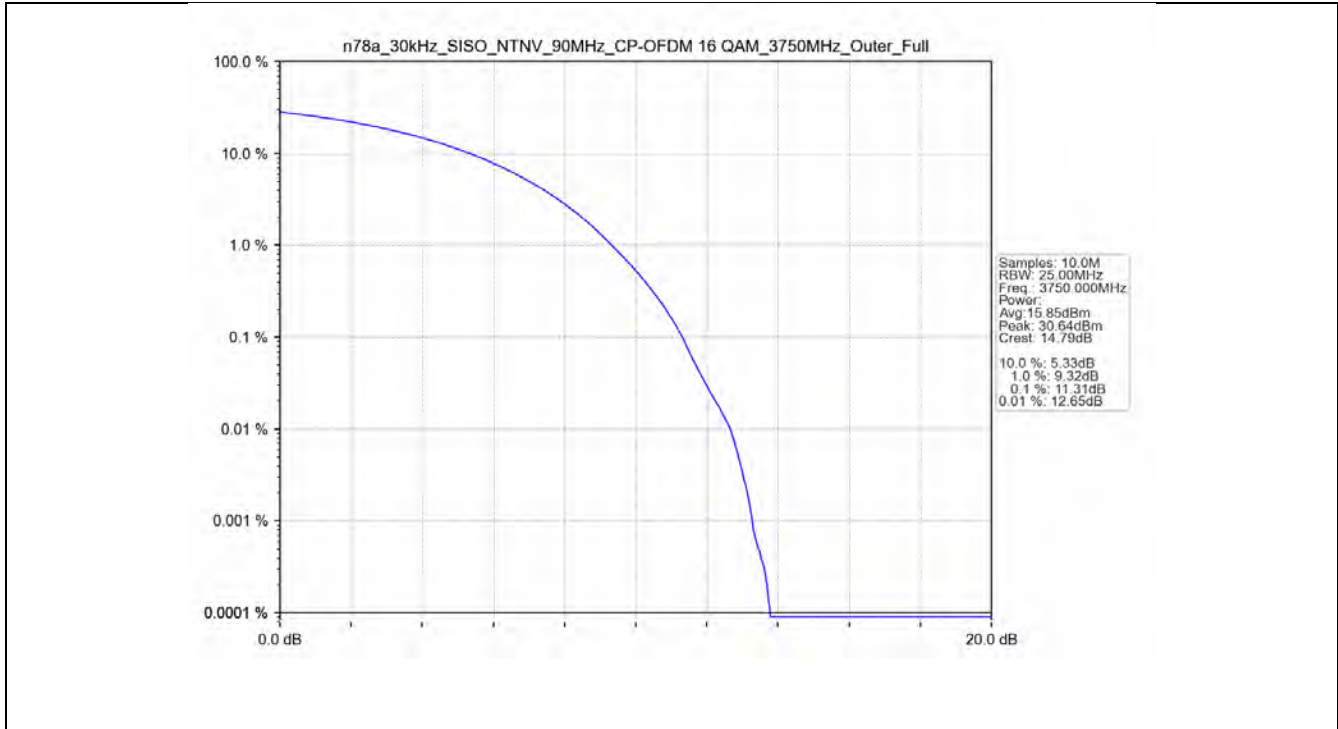


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Report No.: SZCR240100038409

Rev.: 01

Page: 540 of 1458



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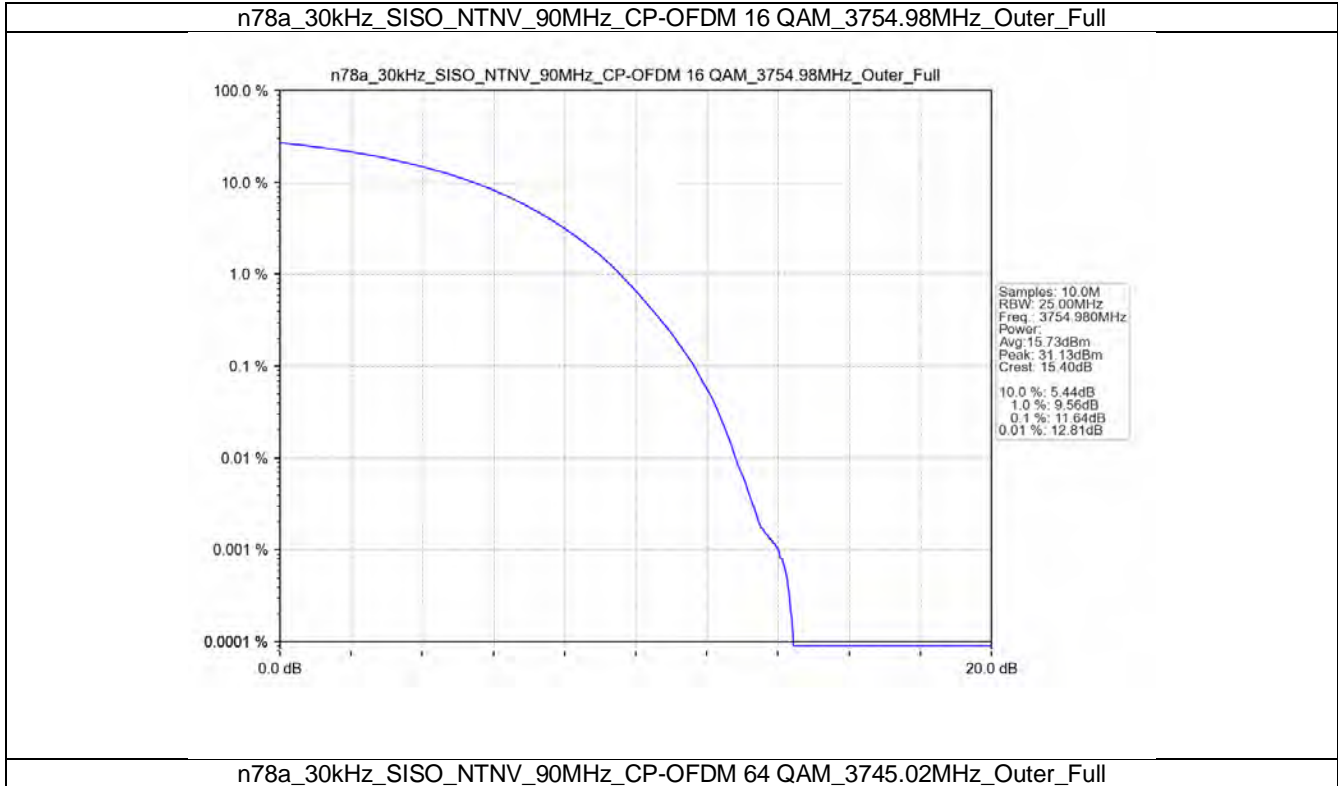


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Rev.: 01

Page: 541 of 1458



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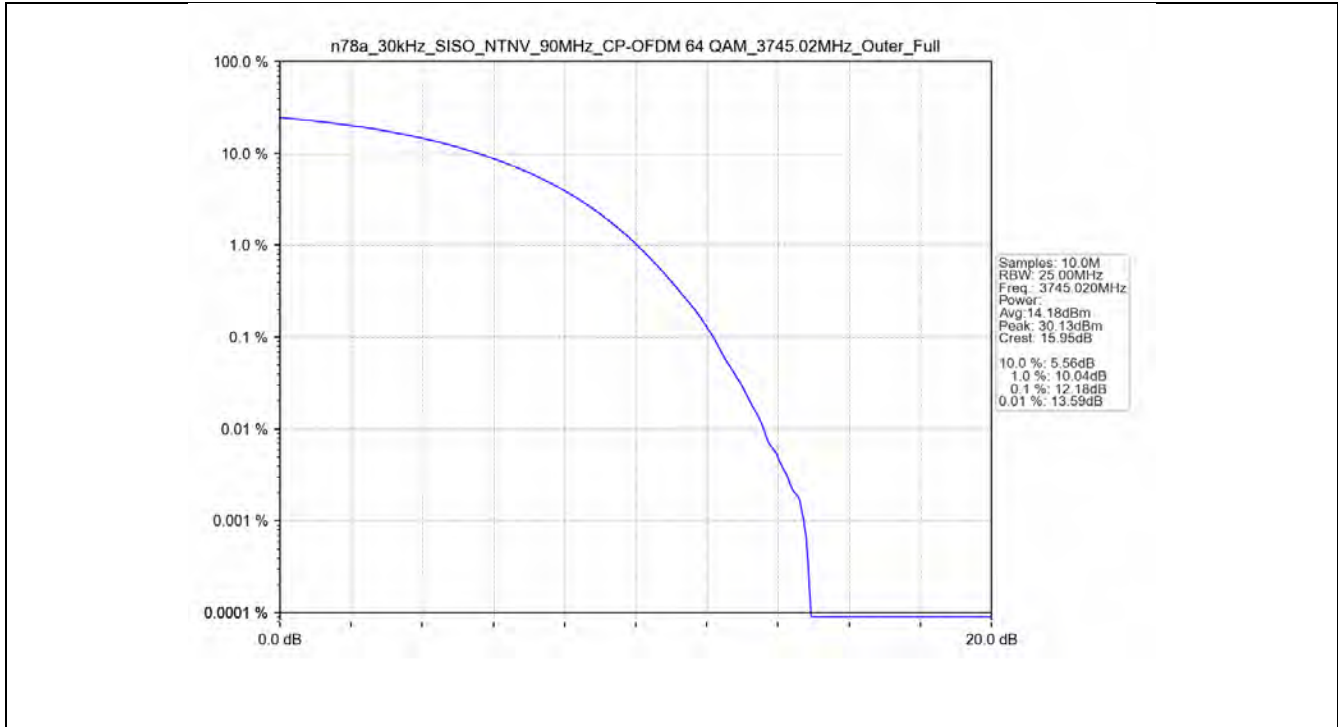


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Rev.: 01

Page: 542 of 1458



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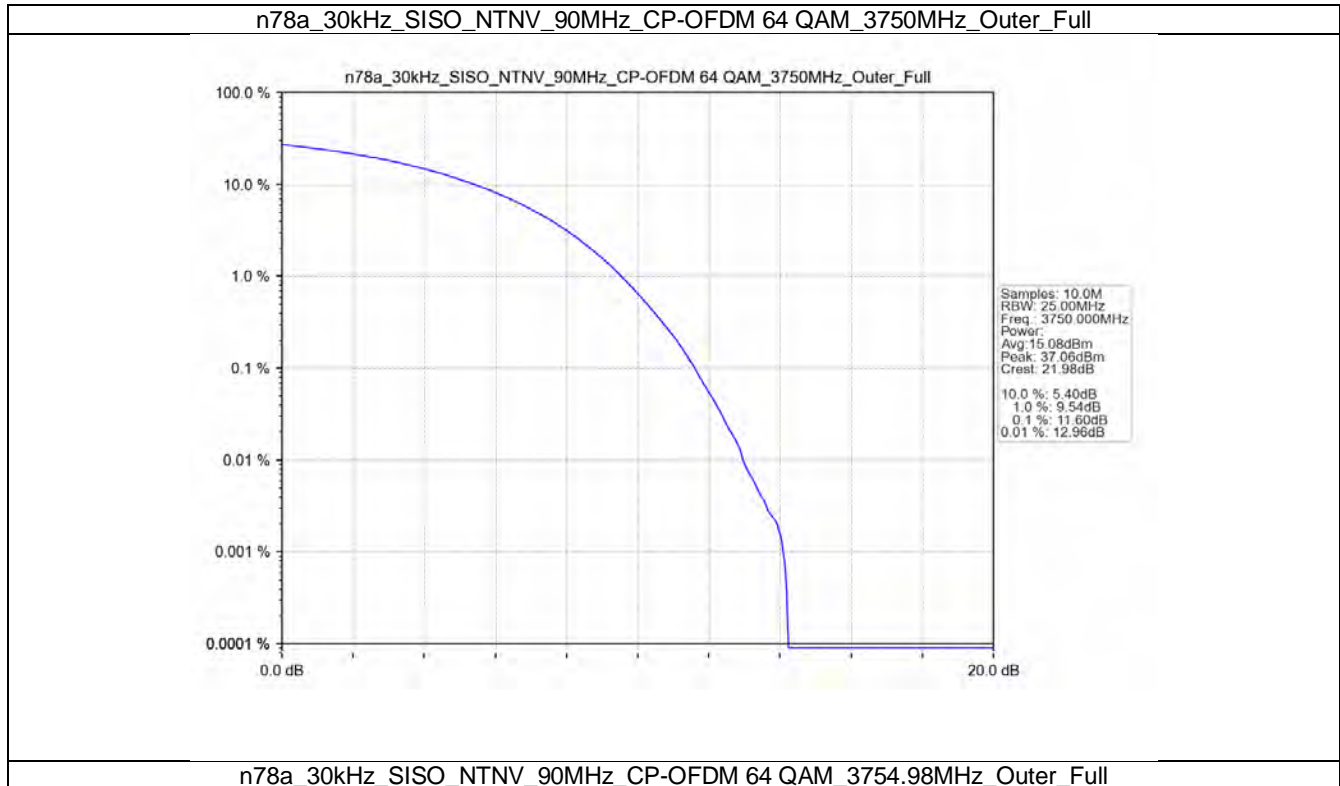


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Rev.: 01

Page: 543 of 1458



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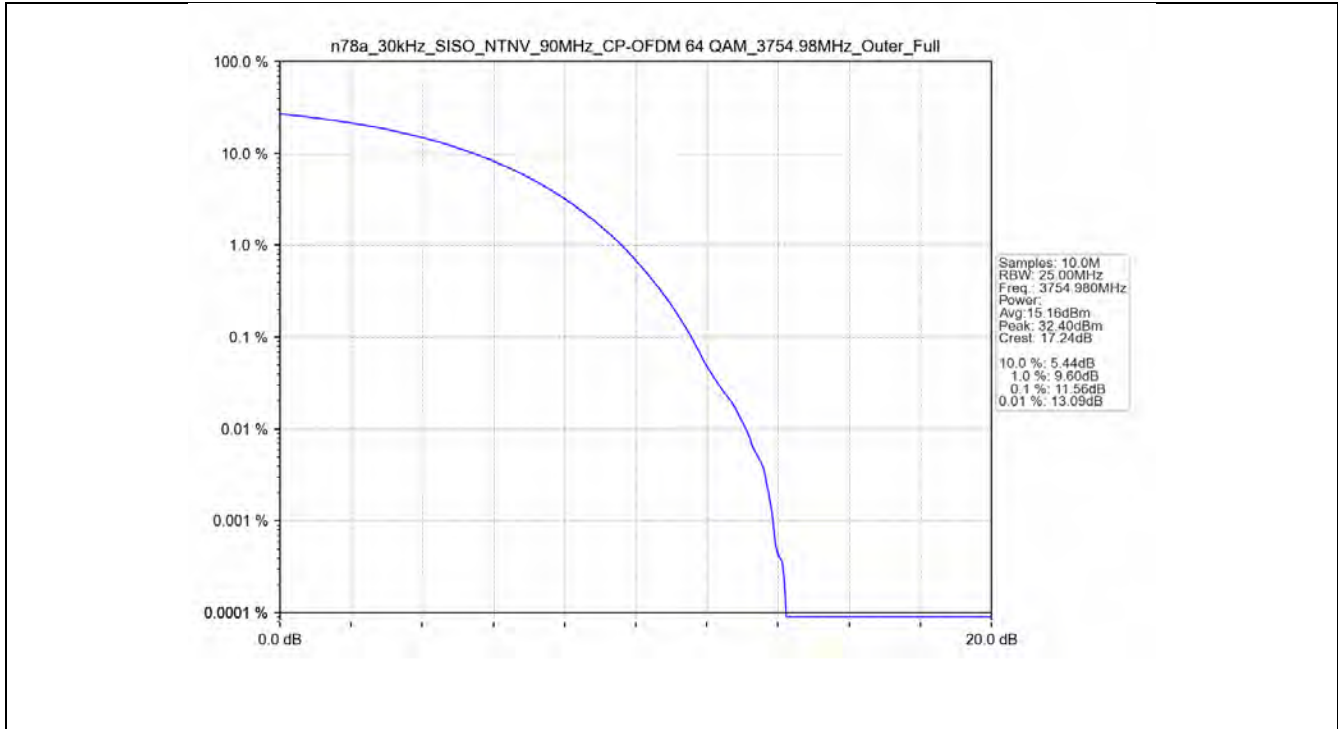


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Rev.: 01

Page: 544 of 1458



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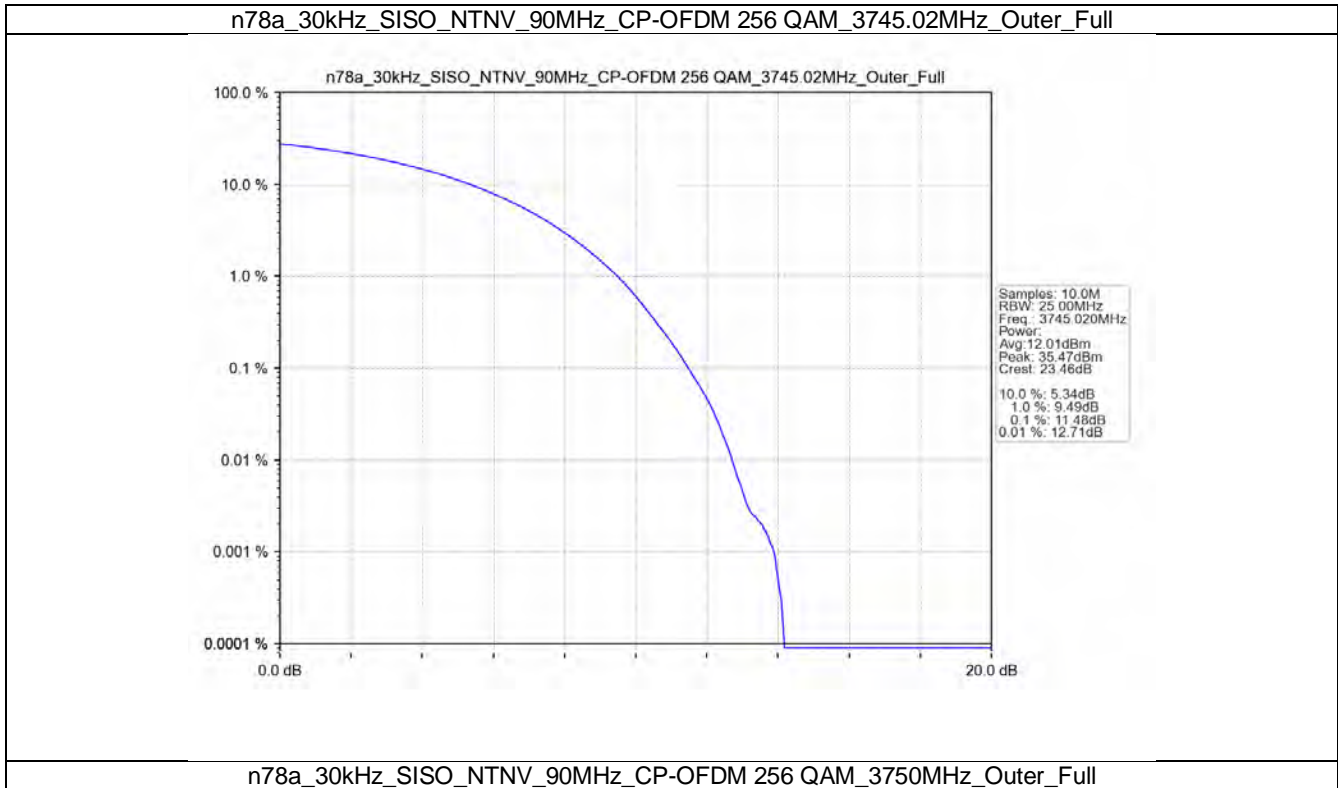


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Rev.: 01

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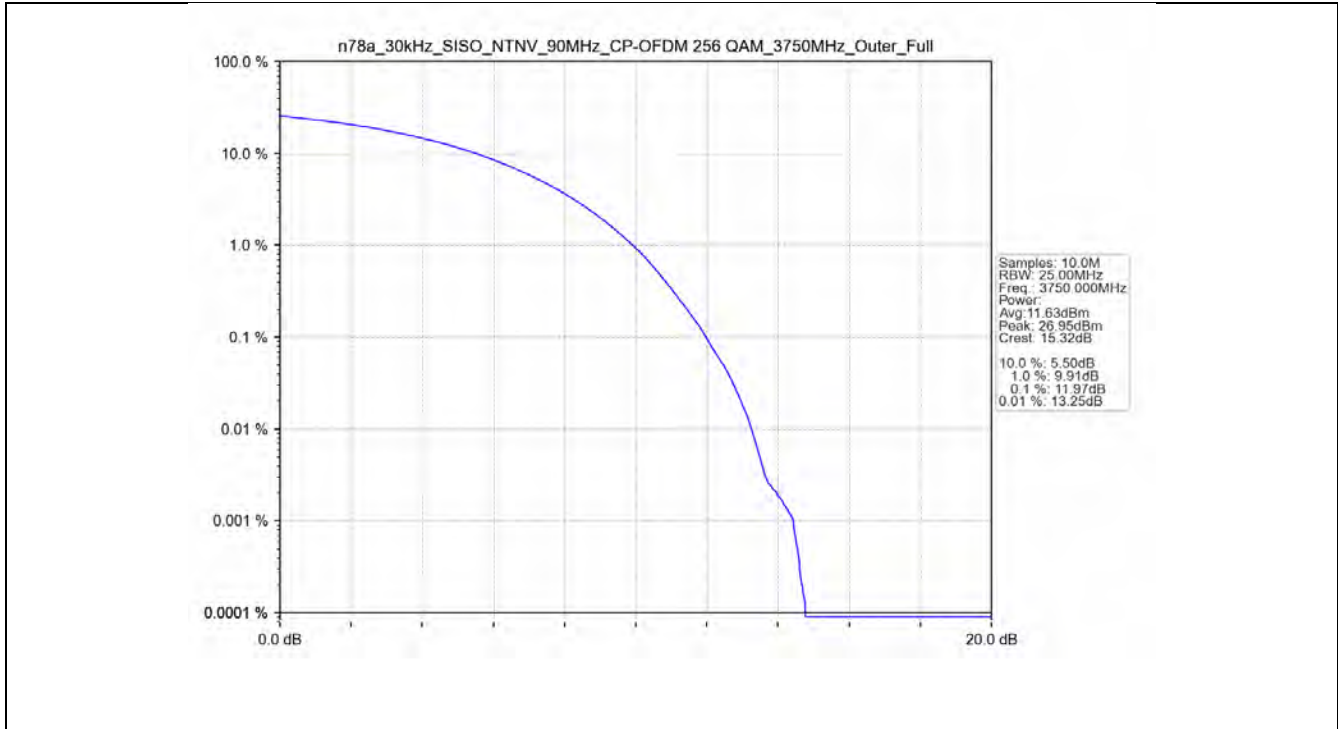


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Report No.: SZCR240100038409

Rev.: 01

Page: 546 of 1458



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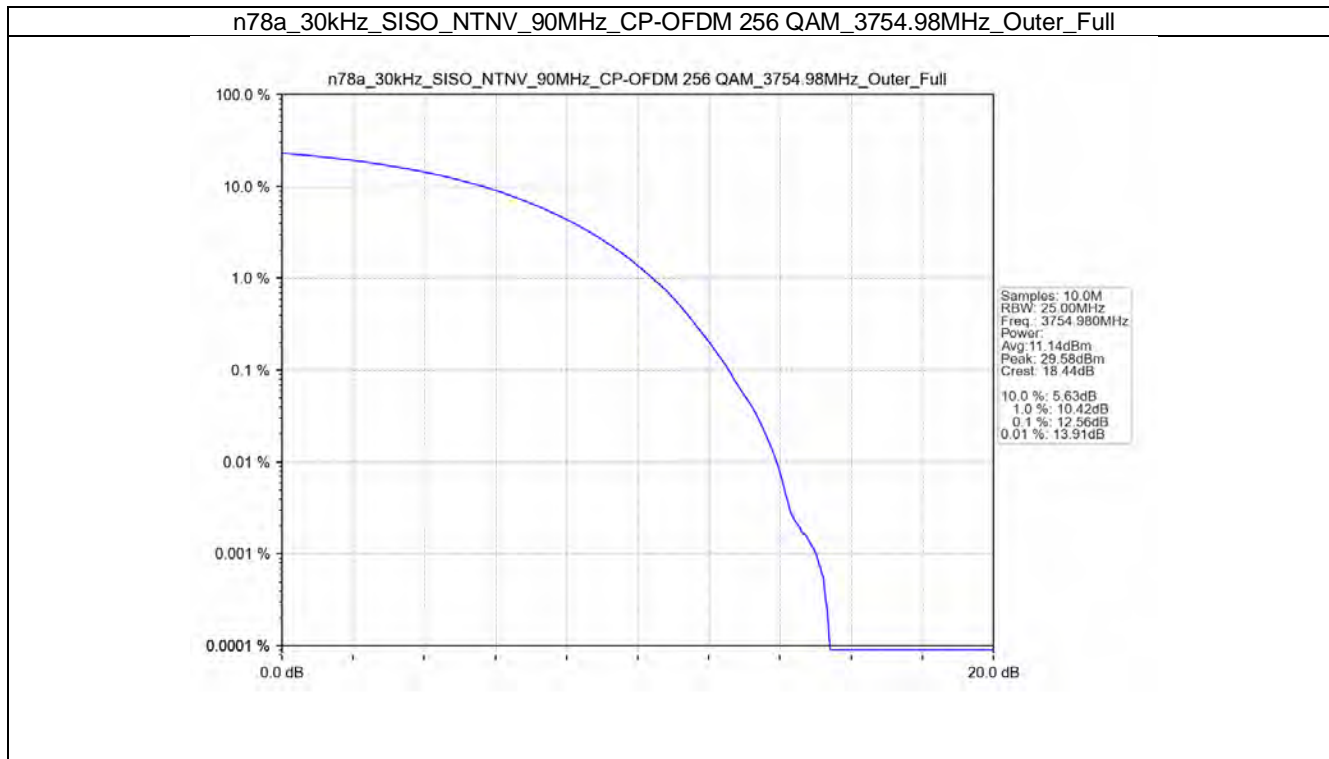
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 548 of 1458

## 4.9 30k\_SISO\_100MHz\_NTNV

### 4.9.1 Test Result

5G NR n78a SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	10.33	/	/	<=13	Pass
	3750	Outer_Full	10.71	/	/	<=13	Pass
	3750	Outer_Full	10.93	/	/	<=13	Pass
DFT-s-OFDM QPSK	3750	Outer_Full	11.04	/	/	<=13	Pass
	3750	Outer_Full	11.29	/	/	<=13	Pass
	3750	Outer_Full	10.84	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3750	Outer_Full	11.30	/	/	<=13	Pass
	3750	Outer_Full	12.05	/	/	<=13	Pass
	3750	Outer_Full	10.54	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3750	Outer_Full	11.32	/	/	<=13	Pass
	3750	Outer_Full	12.49	/	/	<=13	Pass
	3750	Outer_Full	11.63	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3750	Outer_Full	10.77	/	/	<=13	Pass
	3750	Outer_Full	11.46	/	/	<=13	Pass
	3750	Outer_Full	12.27	/	/	<=13	Pass
CP-OFDM QPSK	3750	Outer_Full	11.66	/	/	<=13	Pass
	3750	Outer_Full	11.46	/	/	<=13	Pass
	3750	Outer_Full	12.02	/	/	<=13	Pass
CP-OFDM 16 QAM	3750	Outer_Full	12.14	/	/	<=13	Pass
	3750	Outer_Full	11.97	/	/	<=13	Pass
	3750	Outer_Full	11.57	/	/	<=13	Pass
CP-OFDM 64 QAM	3750	Outer_Full	11.79	/	/	<=13	Pass
	3750	Outer_Full	11.60	/	/	<=13	Pass
	3750	Outer_Full	12.10	/	/	<=13	Pass
CP-OFDM 256 QAM	3750	Outer_Full	12.70	/	/	<=13	Pass
	3750	Outer_Full	11.98	/	/	<=13	Pass
	3750	Outer_Full	12.09	/	/	<=13	Pass



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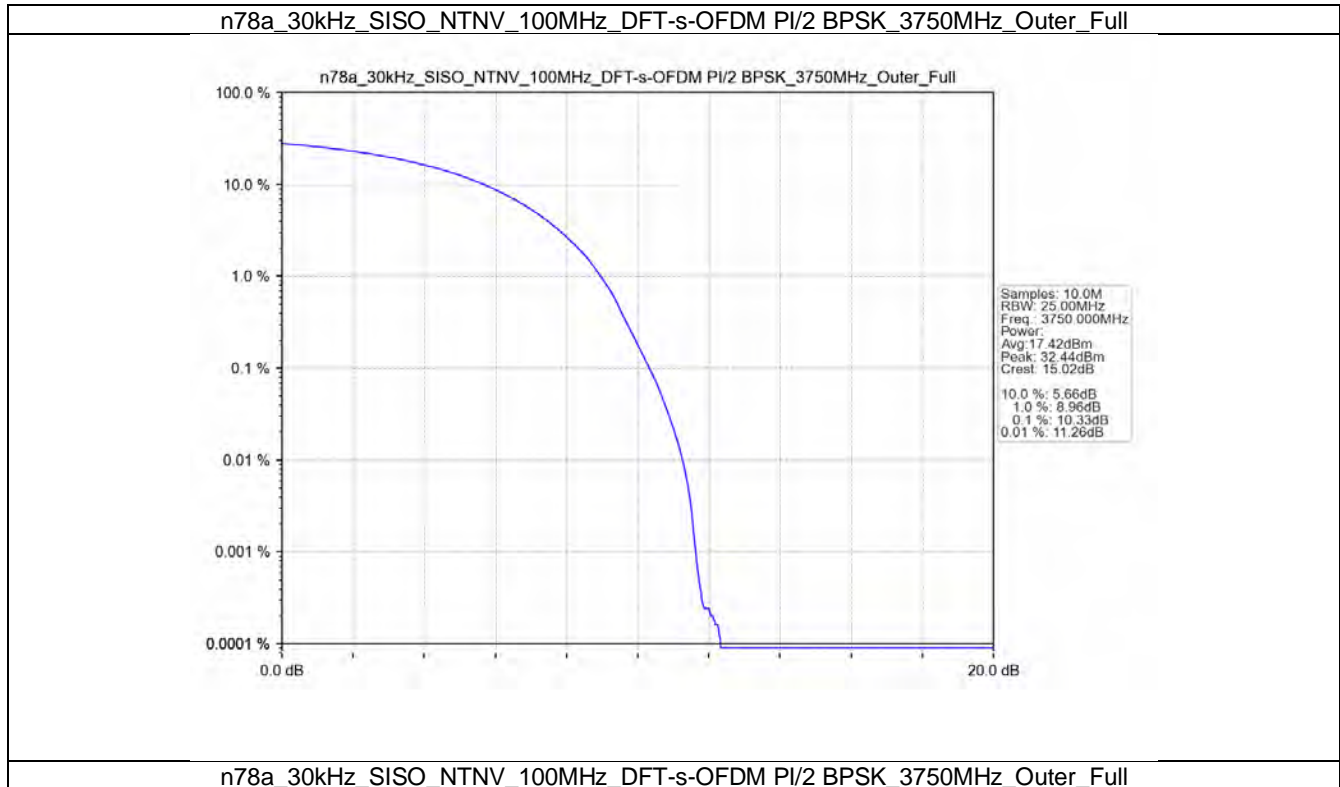
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4.9.2 Test Graph



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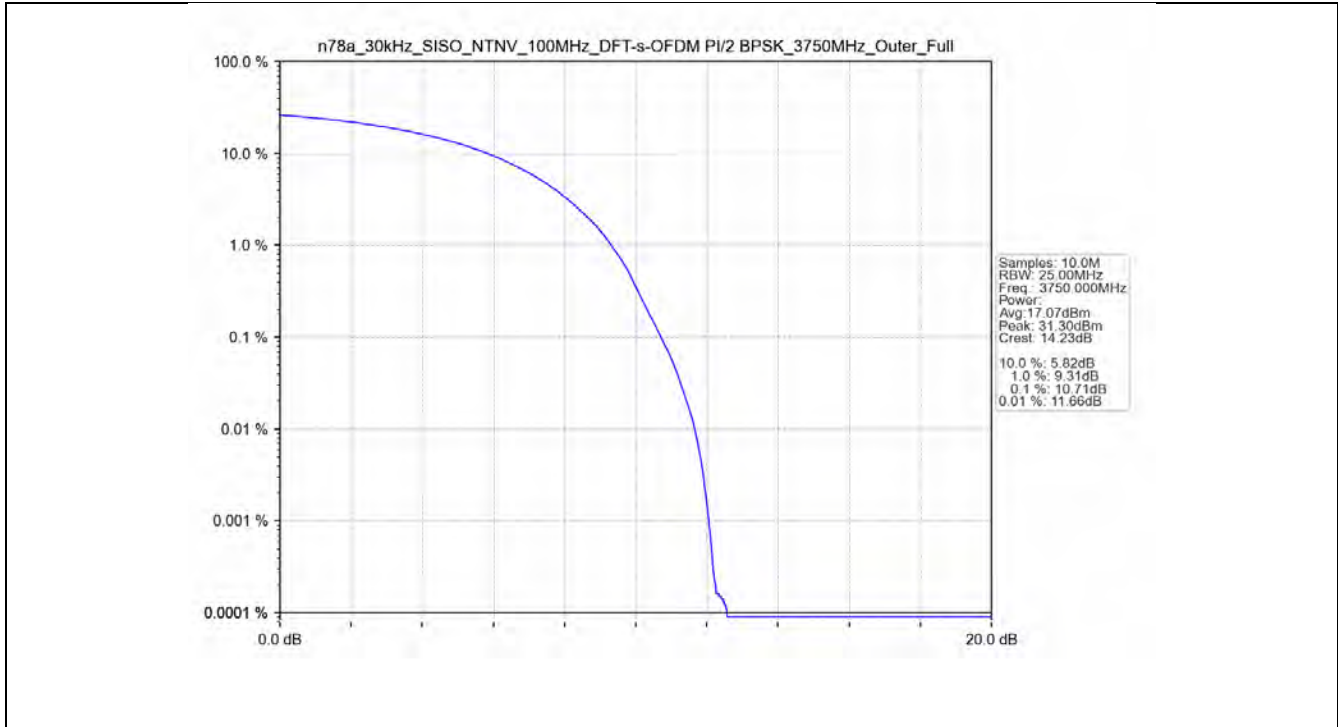


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Rev.: 01

Page: 550 of 1458



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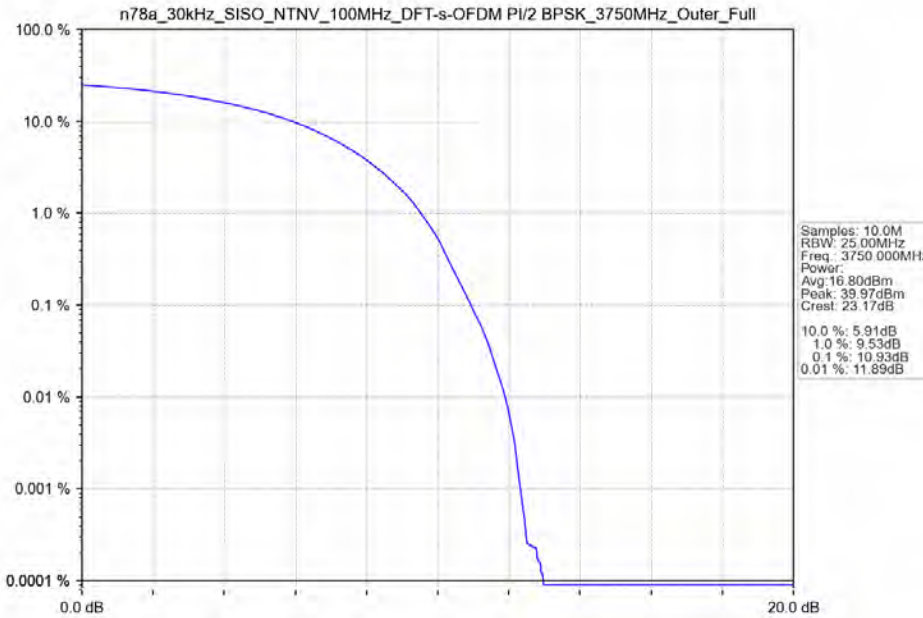
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Report No.: SZCR240100038409

Rev.: 01

Page: 551 of 1458

n78a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM PI/2 BPSK\_3750MHz\_Outer\_Full



n78a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM QPSK\_3750MHz\_Outer\_Full



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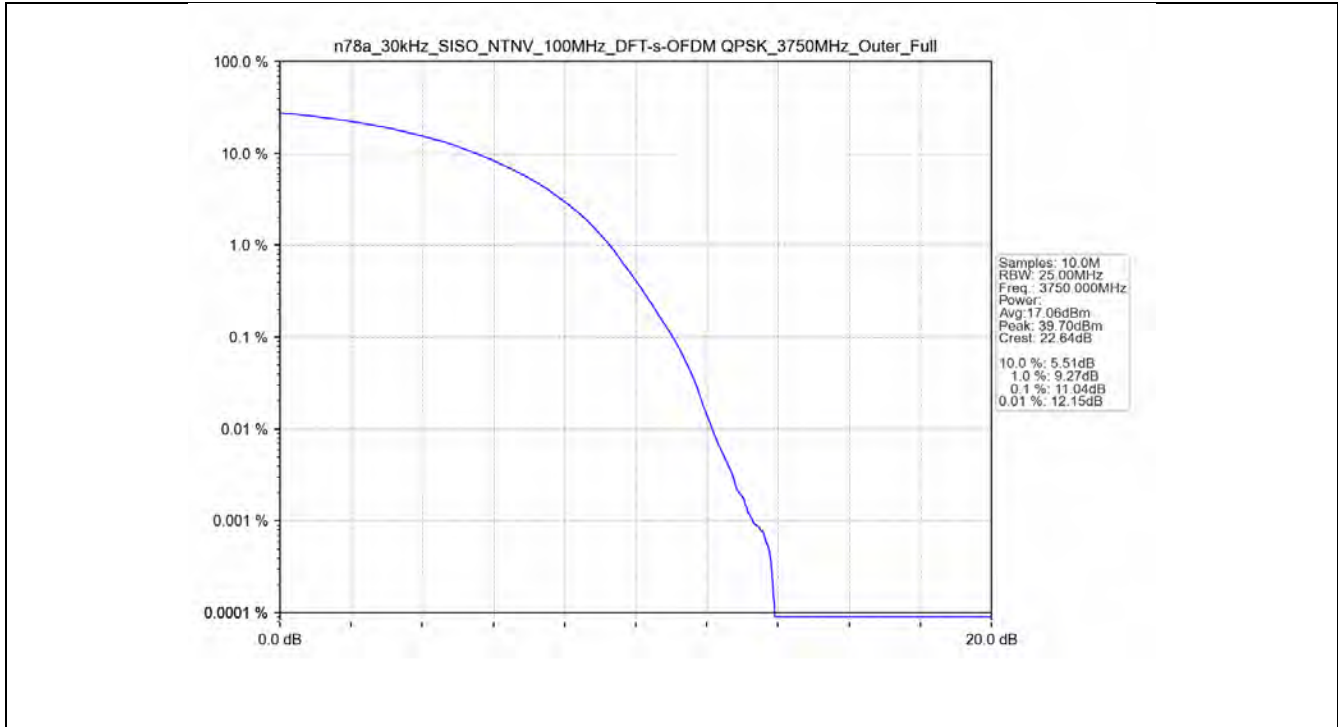


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Page: 552 of 1458



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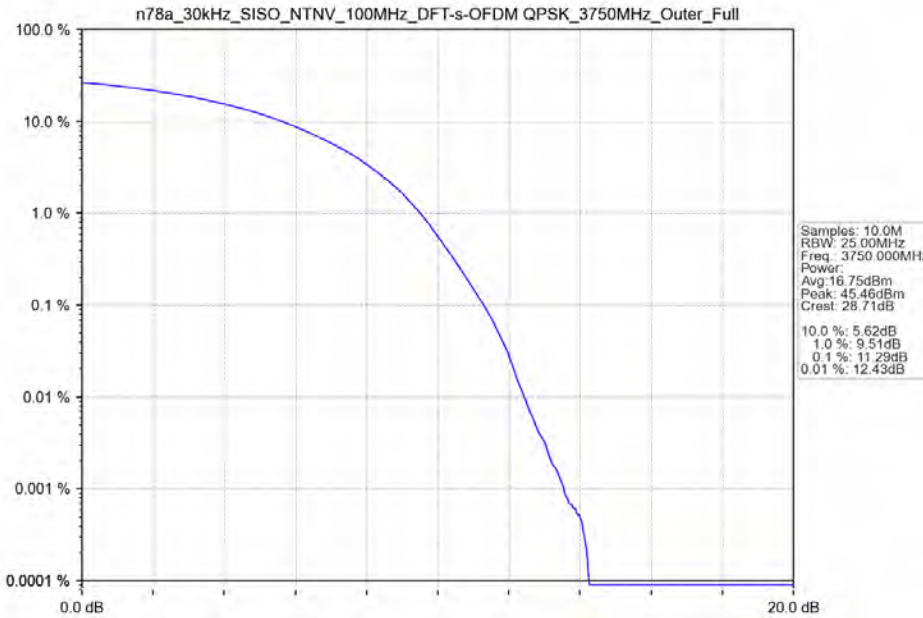
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Report No.: SZCR240100038409

Rev.: 01

Page: 553 of 1458

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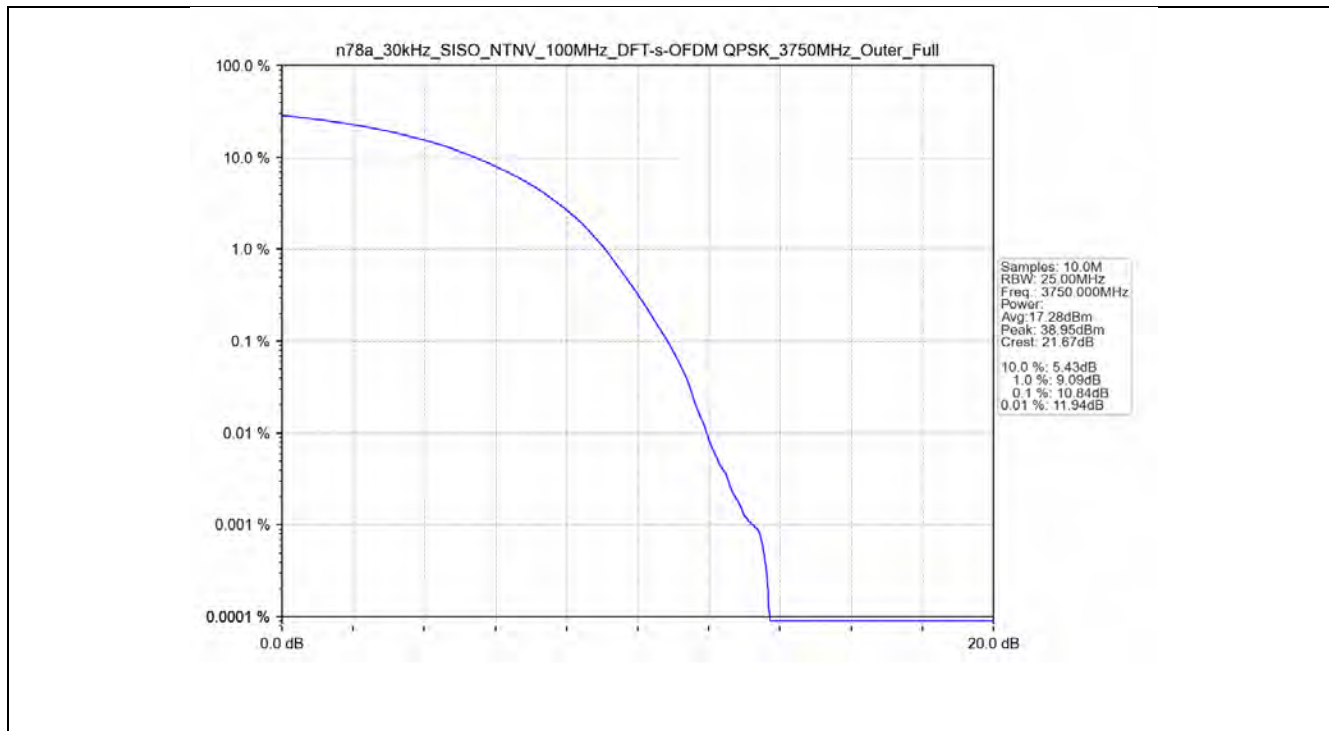
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 Rev.: 01  
 Page: 554 of 1458



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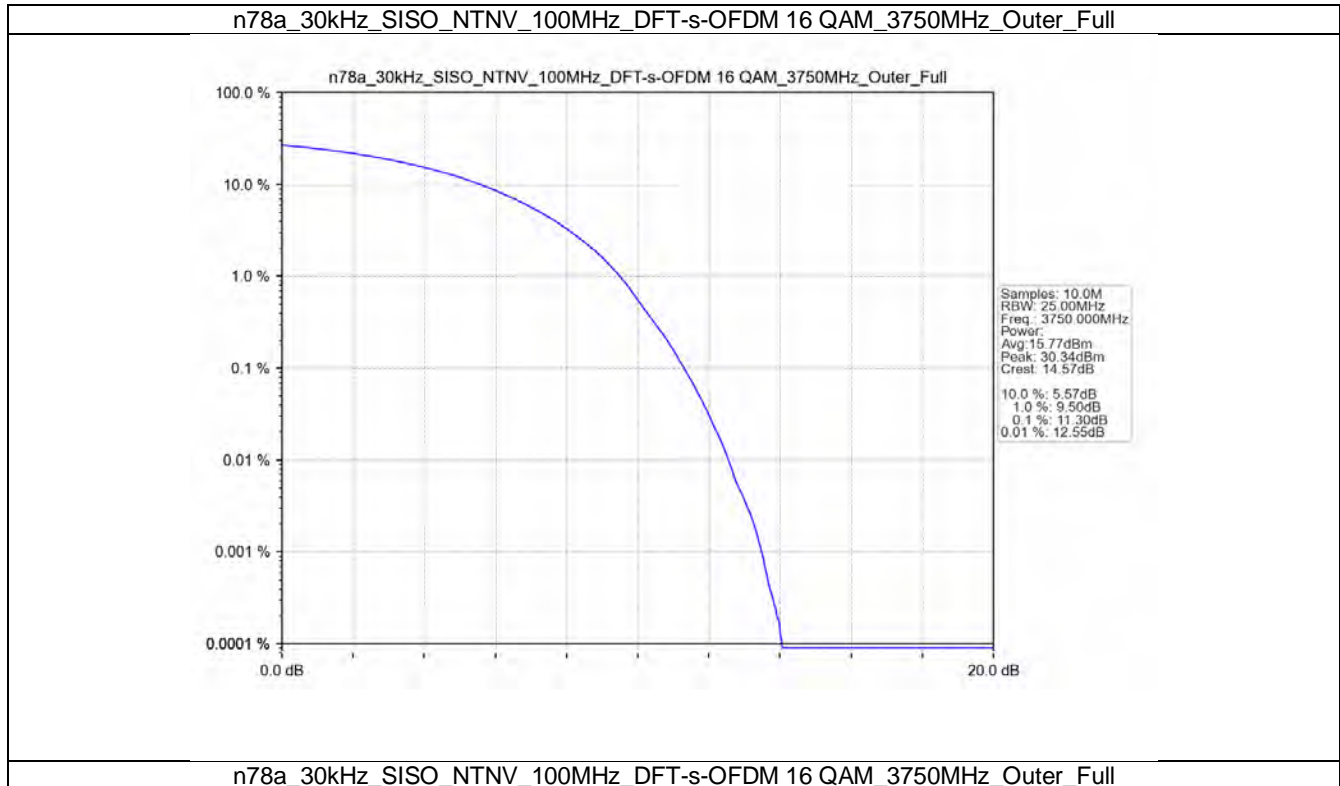


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Report No.: SZCR240100038409

Rev.: 01

Page: 555 of 1458



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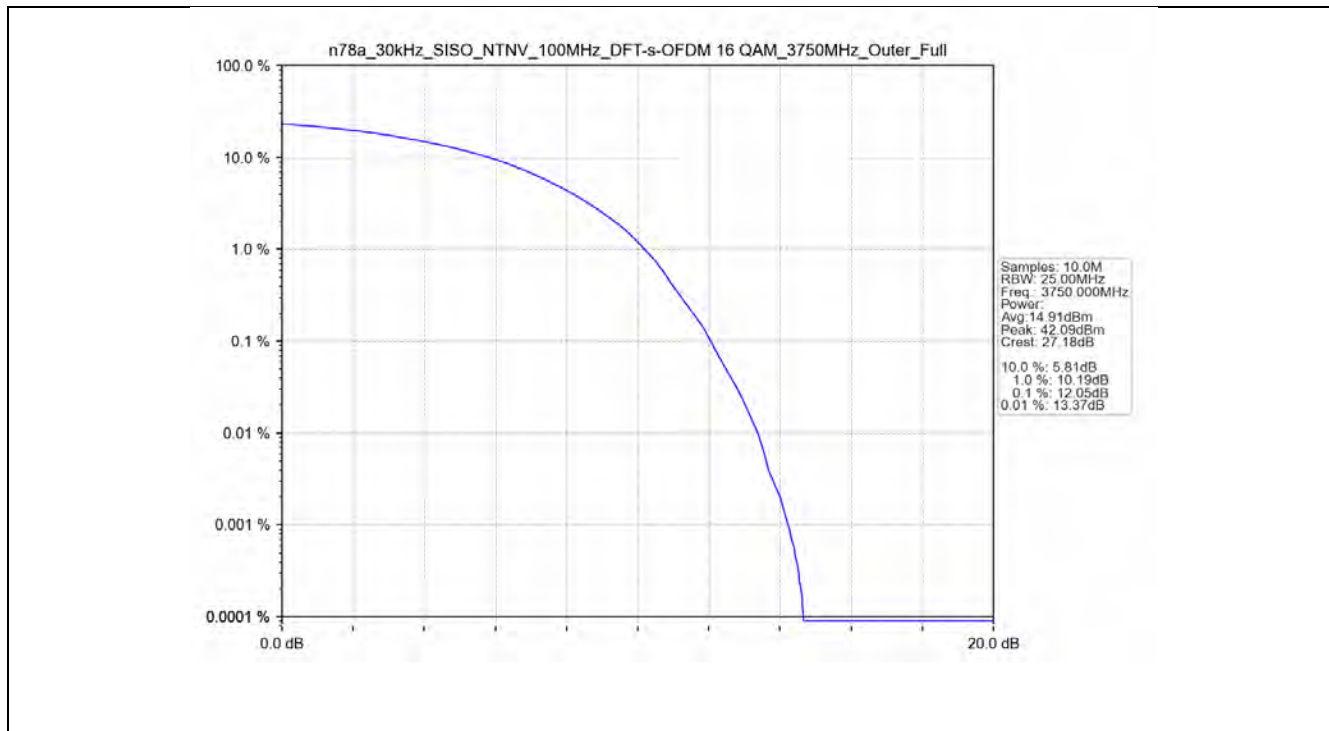
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Report No.: SZCR240100038409  
 Rev.: 01  
 Page: 556 of 1458



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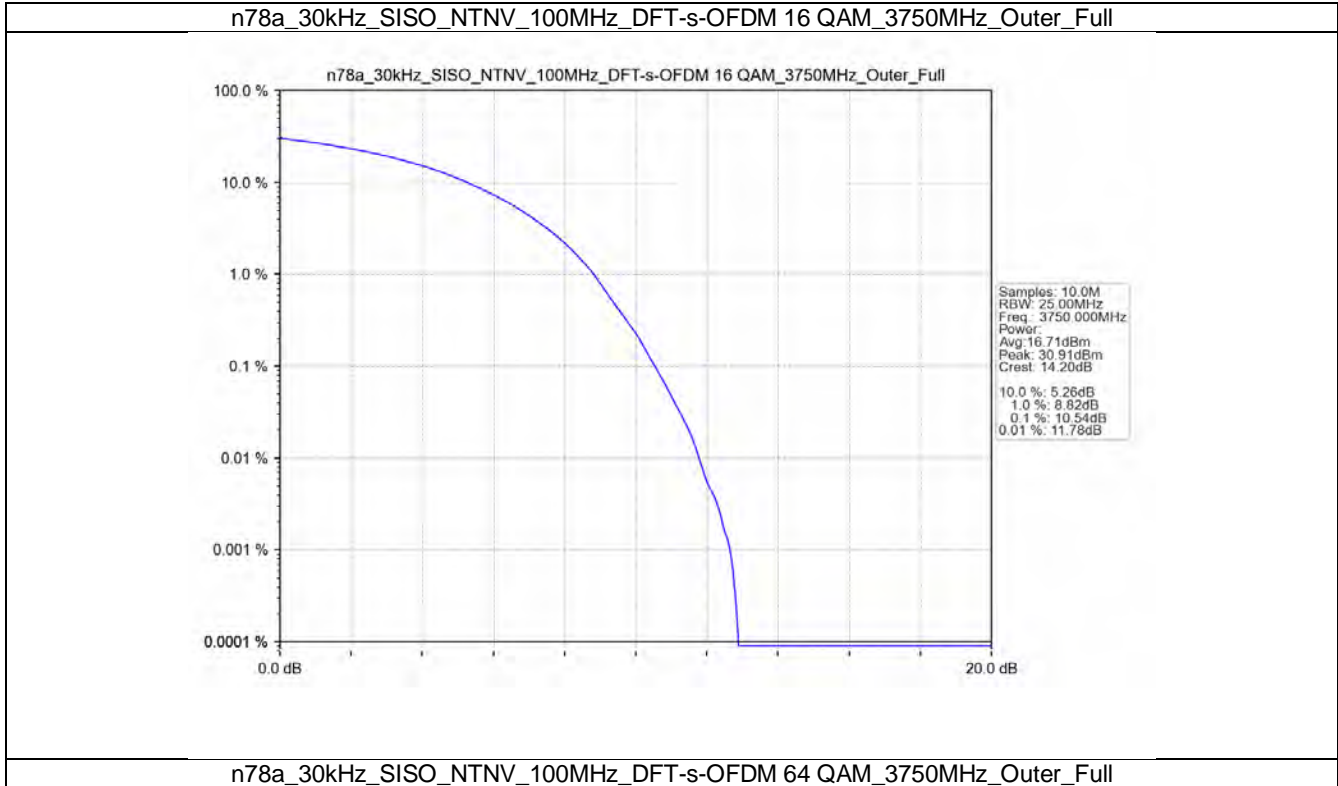


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Report No.: SZCR240100038409

Rev.: 01

Page: 557 of 1458



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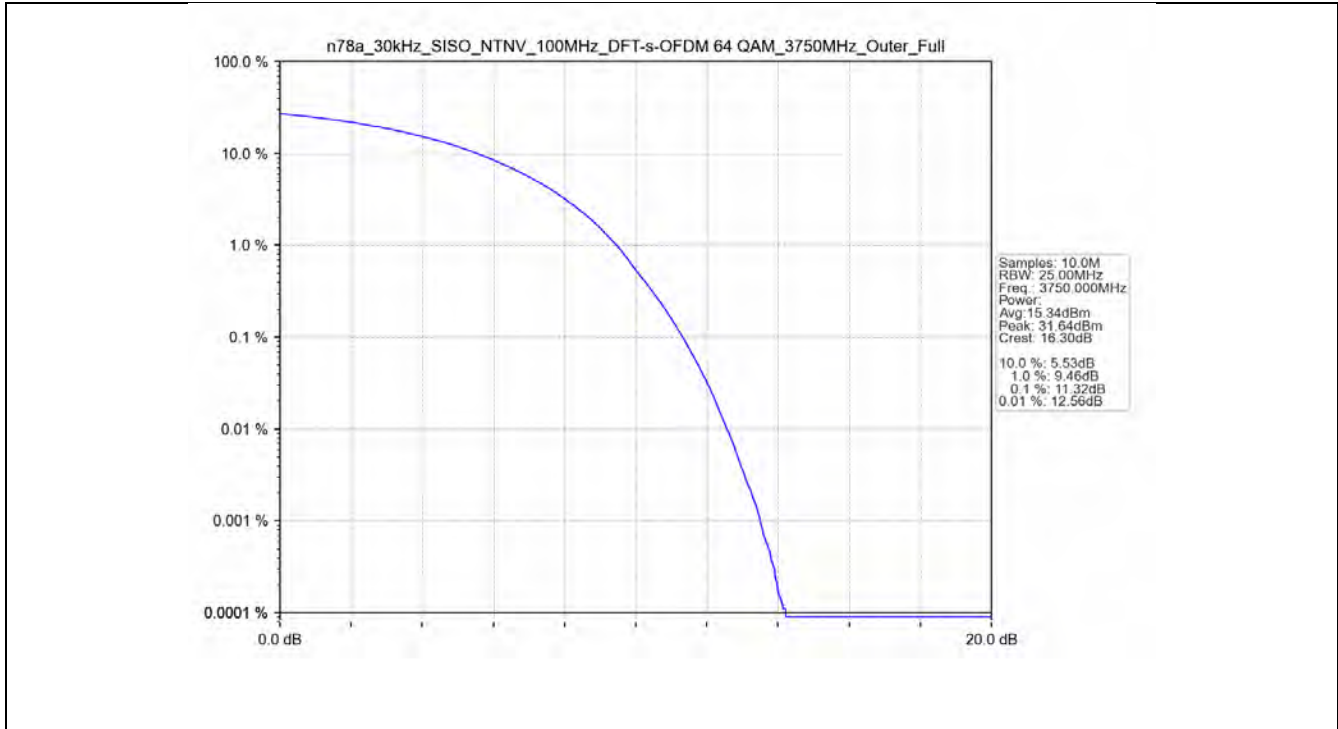


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Rev.: 01

Page: 558 of 1458



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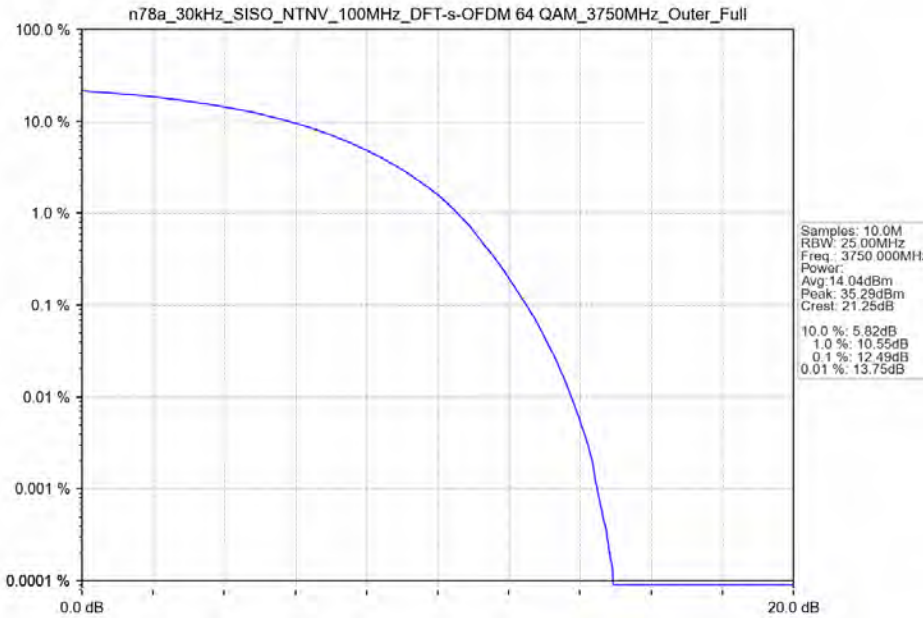
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Report No.: SZCR240100038409

Rev.: 01

Page: 559 of 1458

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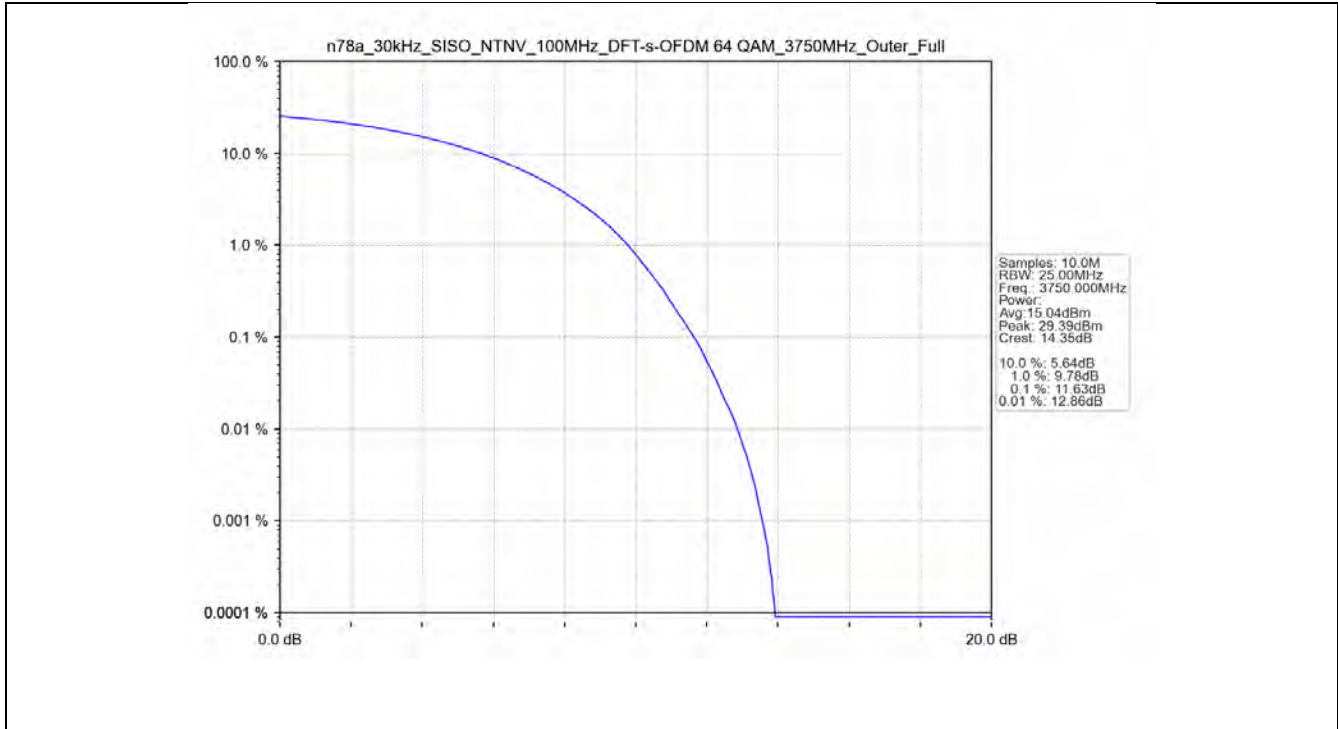


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Rev.: 01

Page: 560 of 1458



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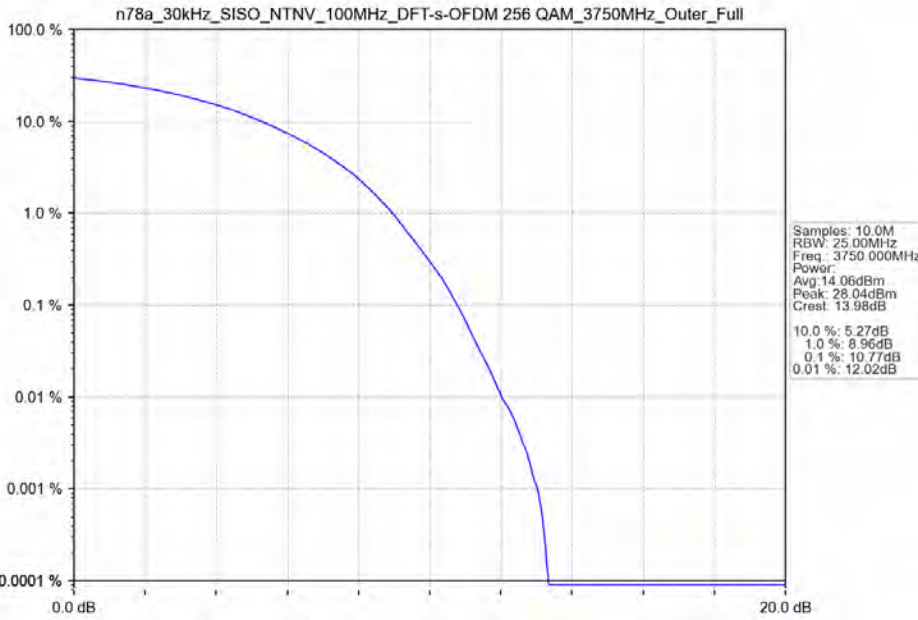
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Report No.: SZCR240100038409

Rev.: 01

Page: 561 of 1458

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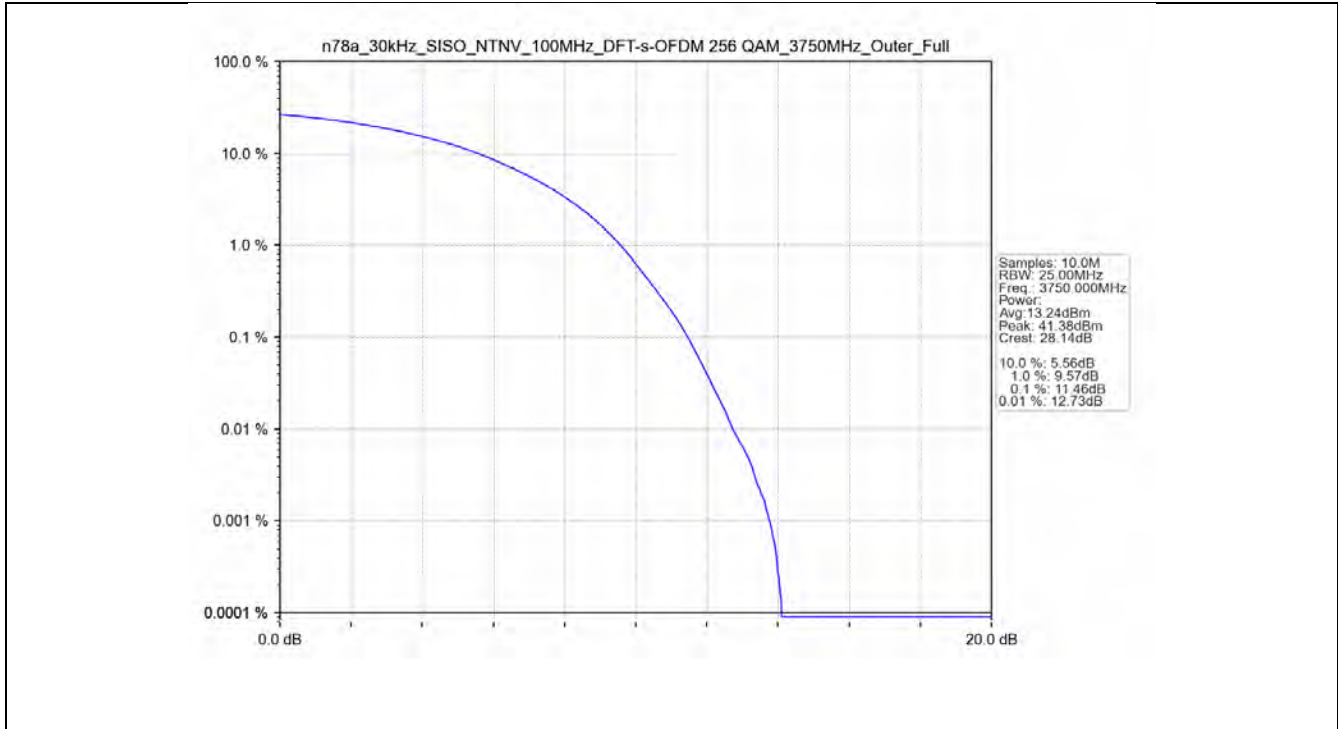


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Rev.: 01

Page: 562 of 1458



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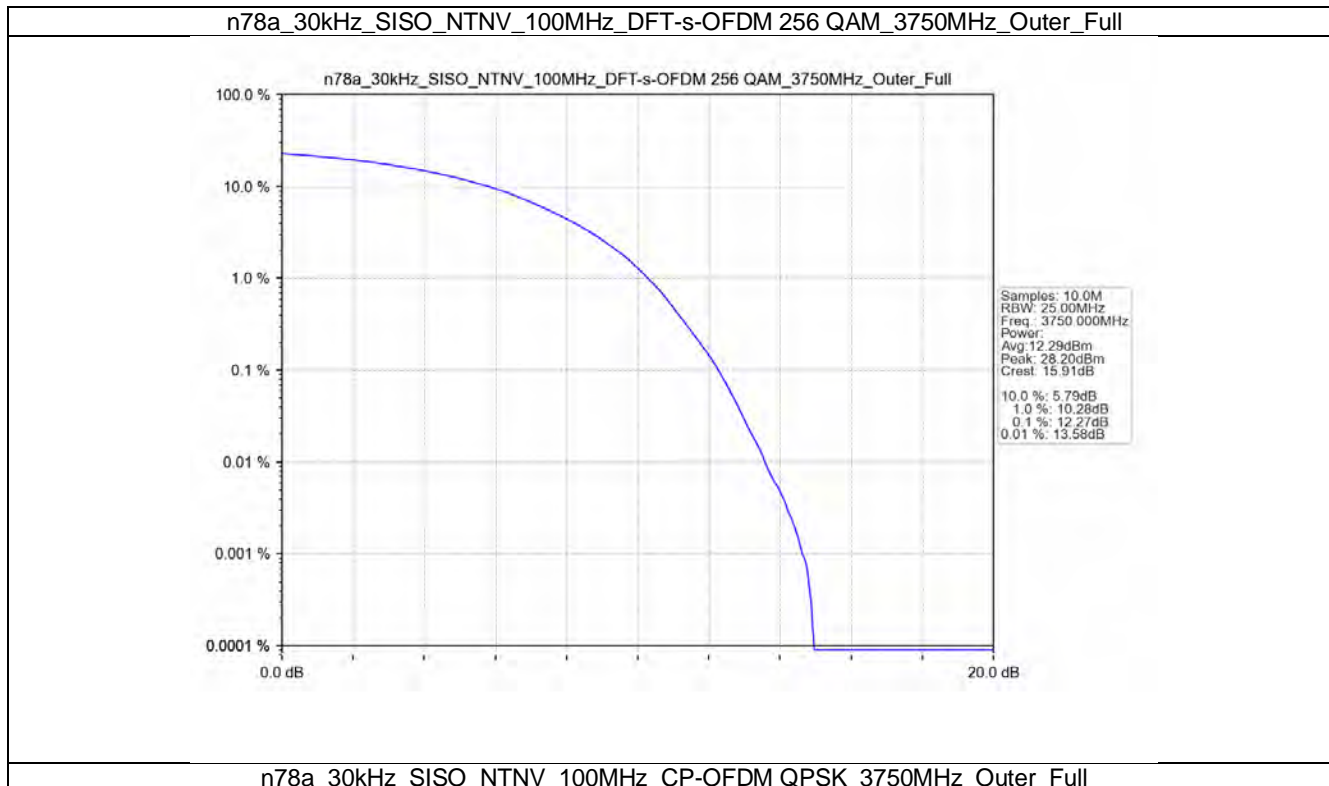
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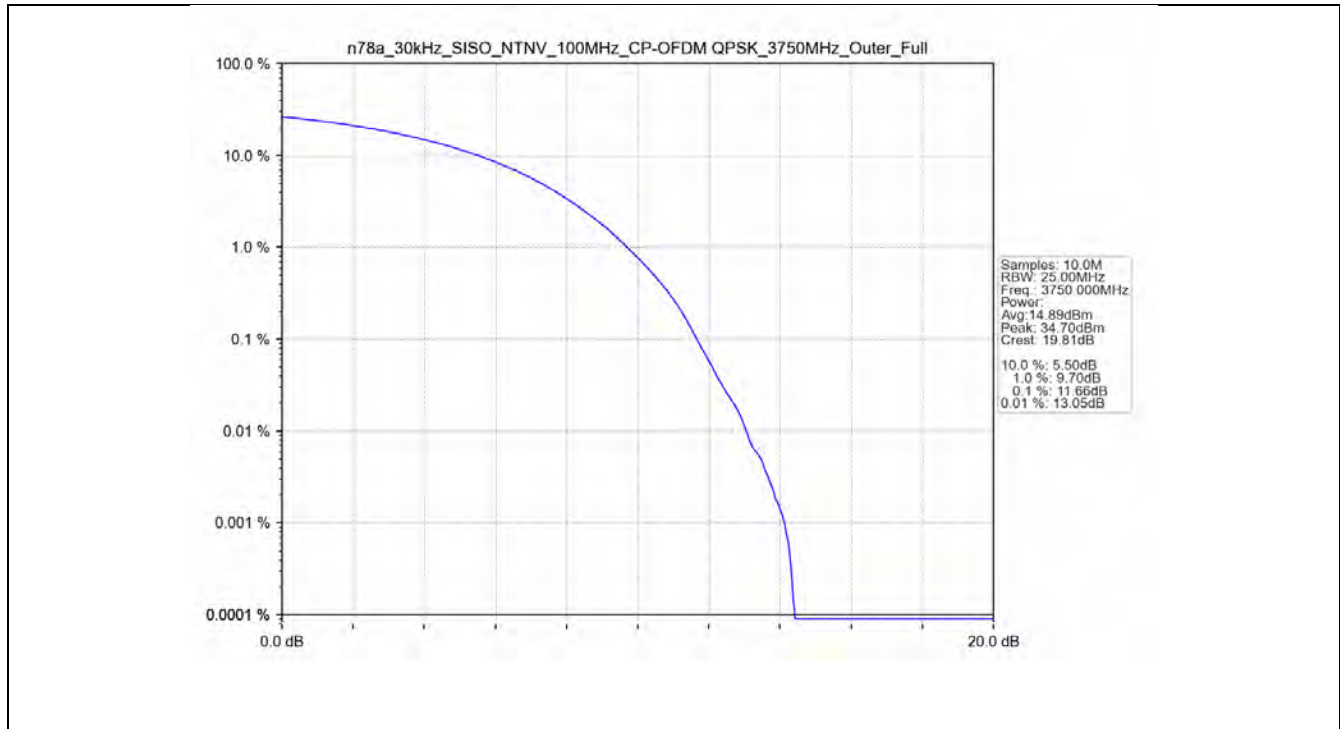


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Report No.: SZCR240100038409

Rev.: 01

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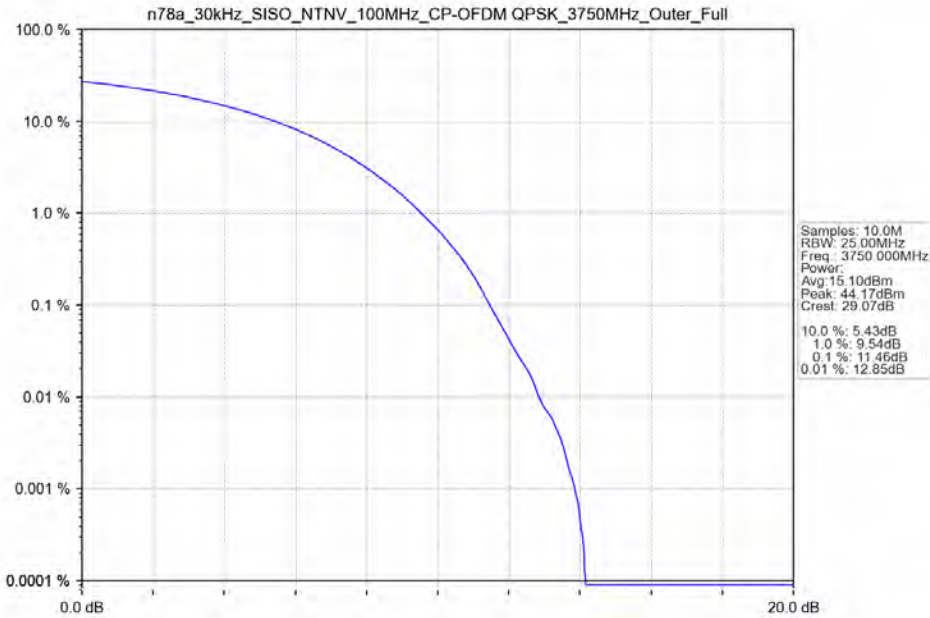
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Report No.: SZCR240100038409

Rev.: 01

Page: 565 of 1458

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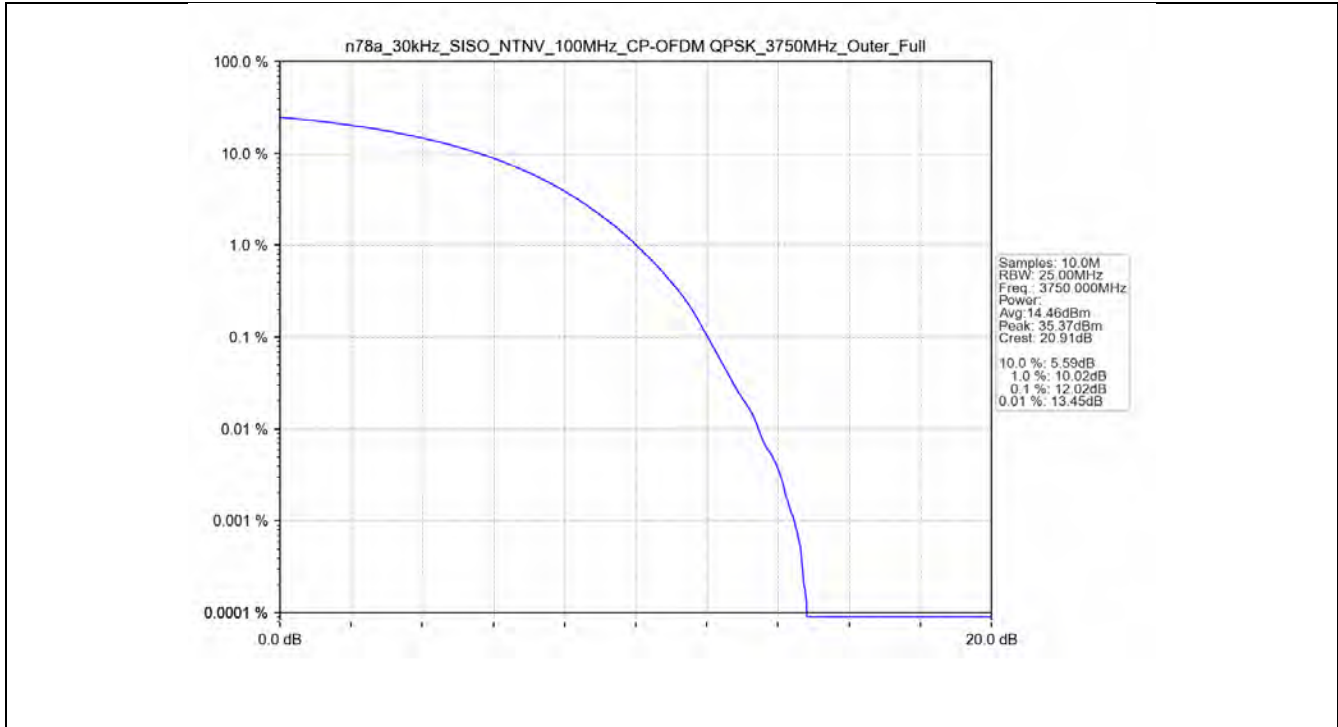


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Rev.: 01

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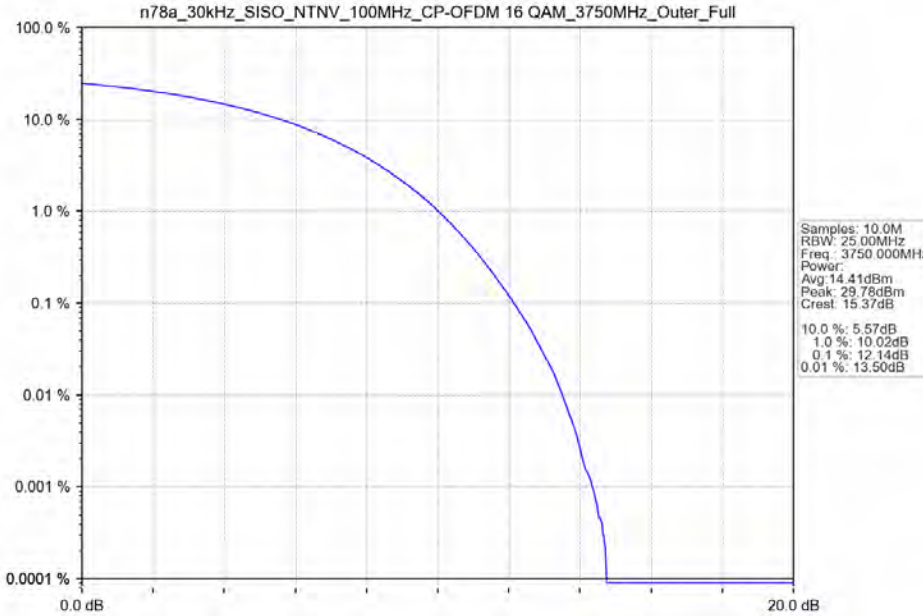
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Report No.: SZCR240100038409

Rev.: 01

Page: 567 of 1458

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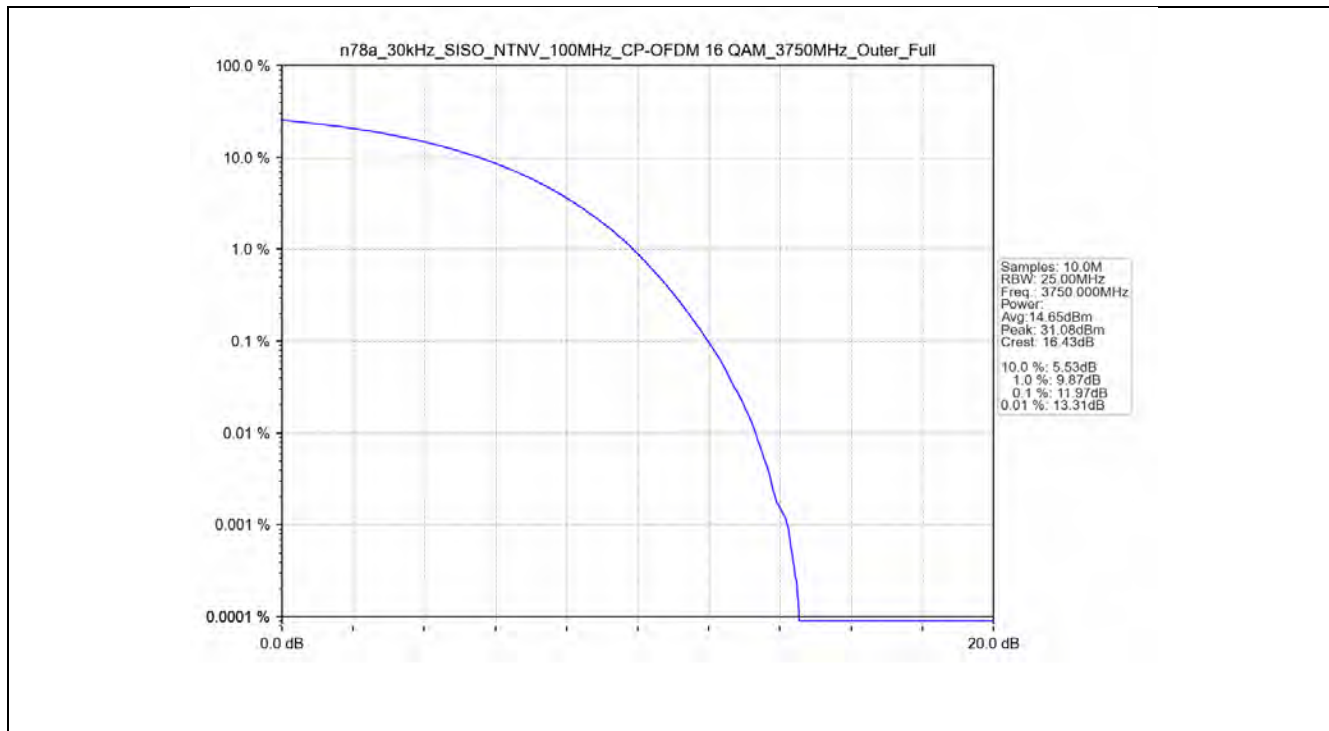
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Rev.: 01  
Page: 568 of 1458



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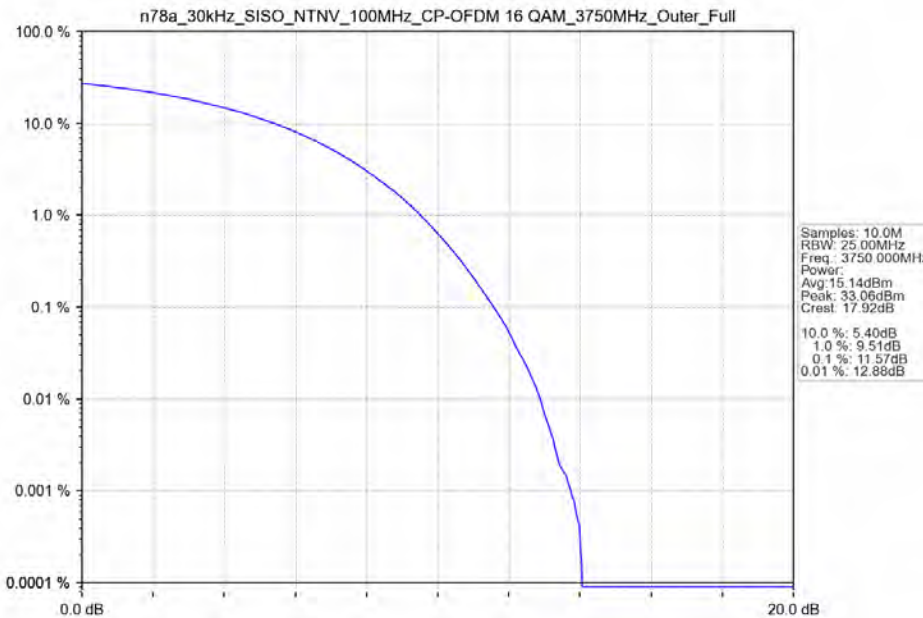
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 569 of 1458

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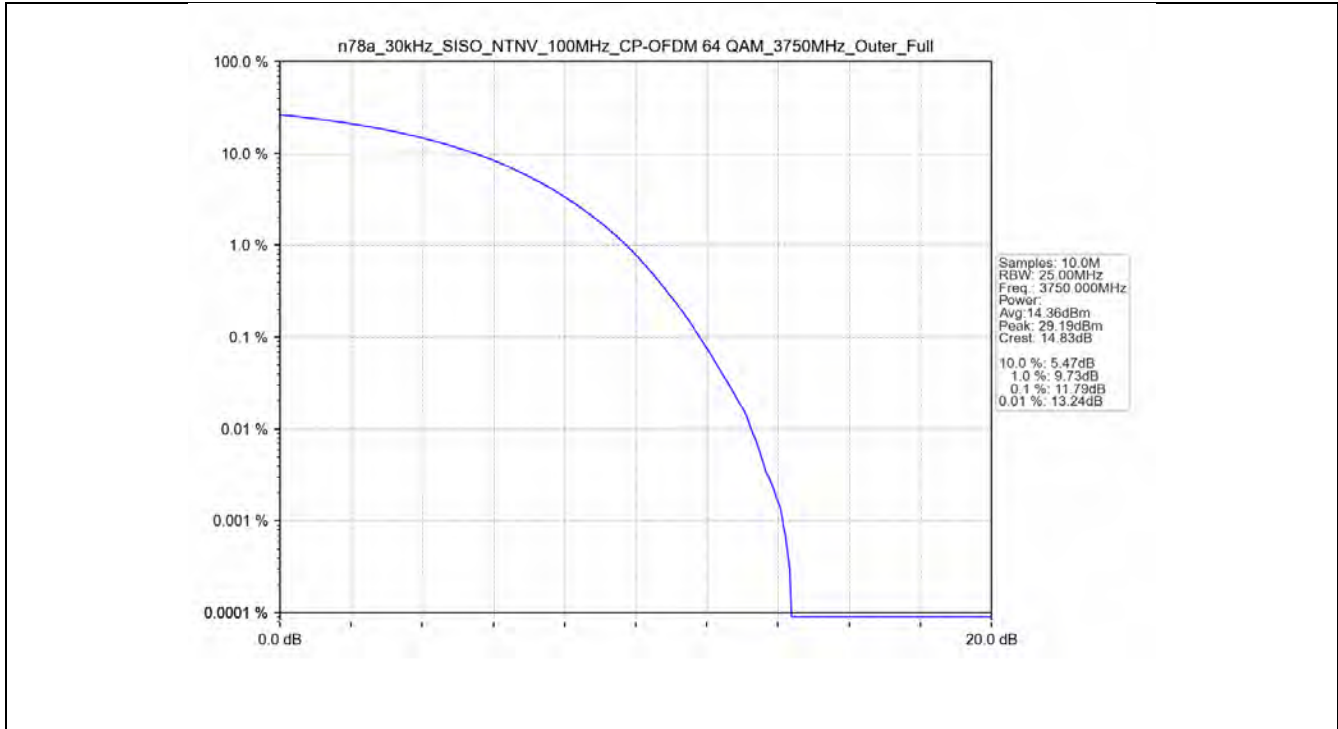


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Report No.: SZCR240100038409

Rev.: 01

Page: 570 of 1458



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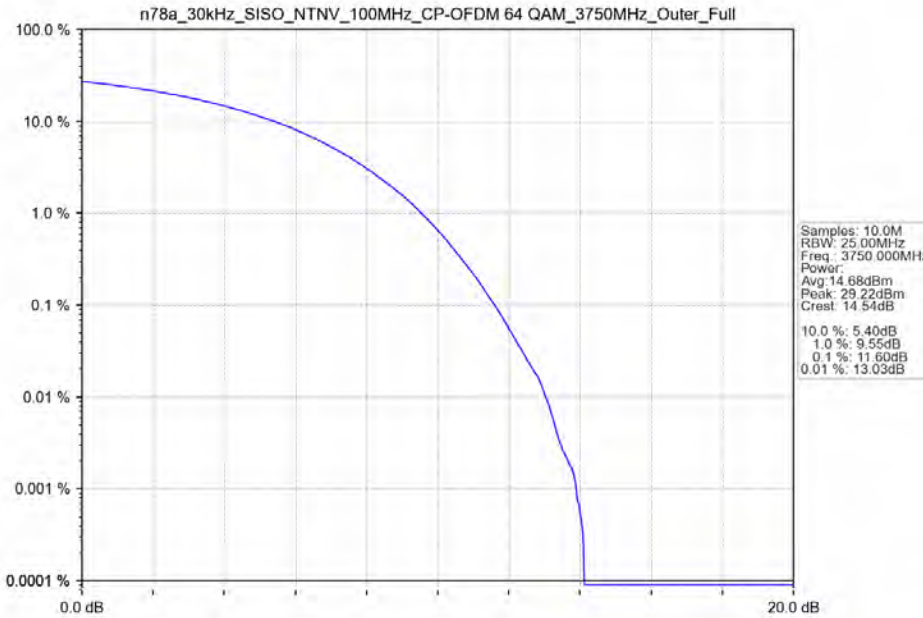
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Report No.: SZCR240100038409

Rev.: 01

Page: 571 of 1458

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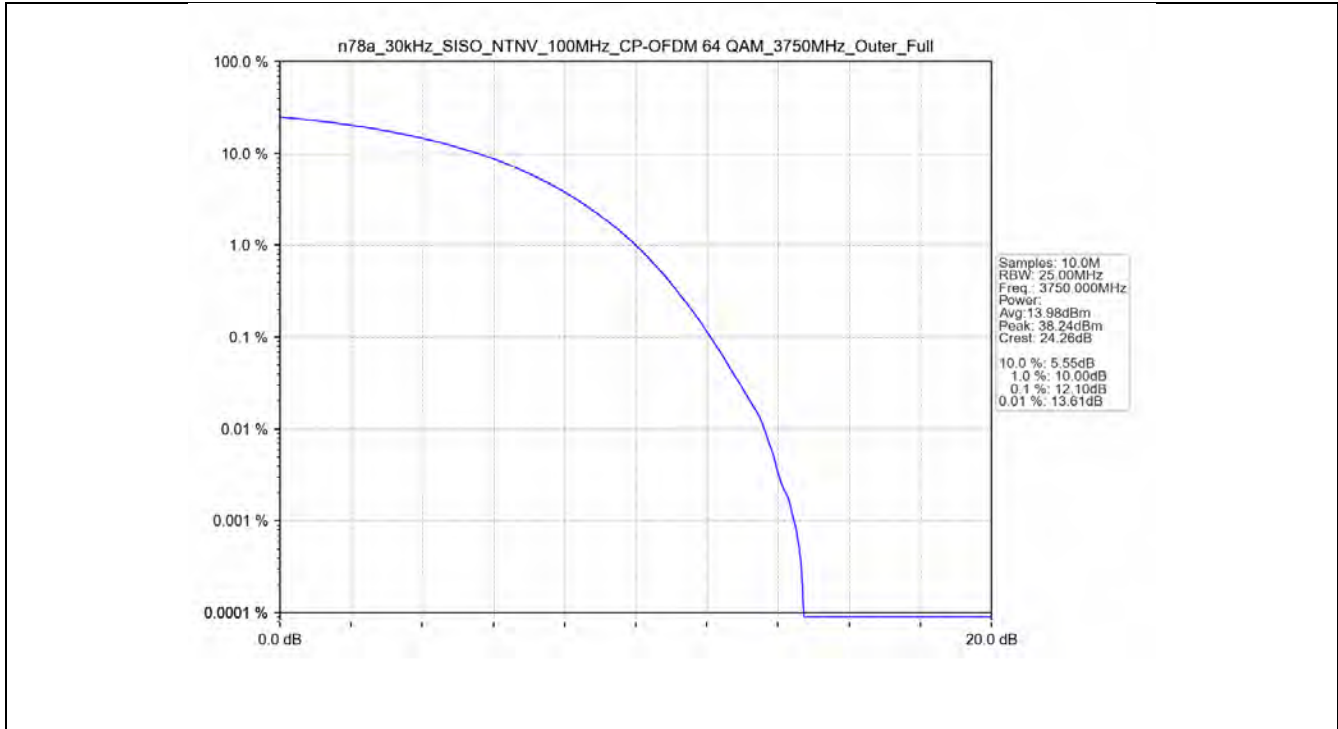


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Page: 572 of 1458



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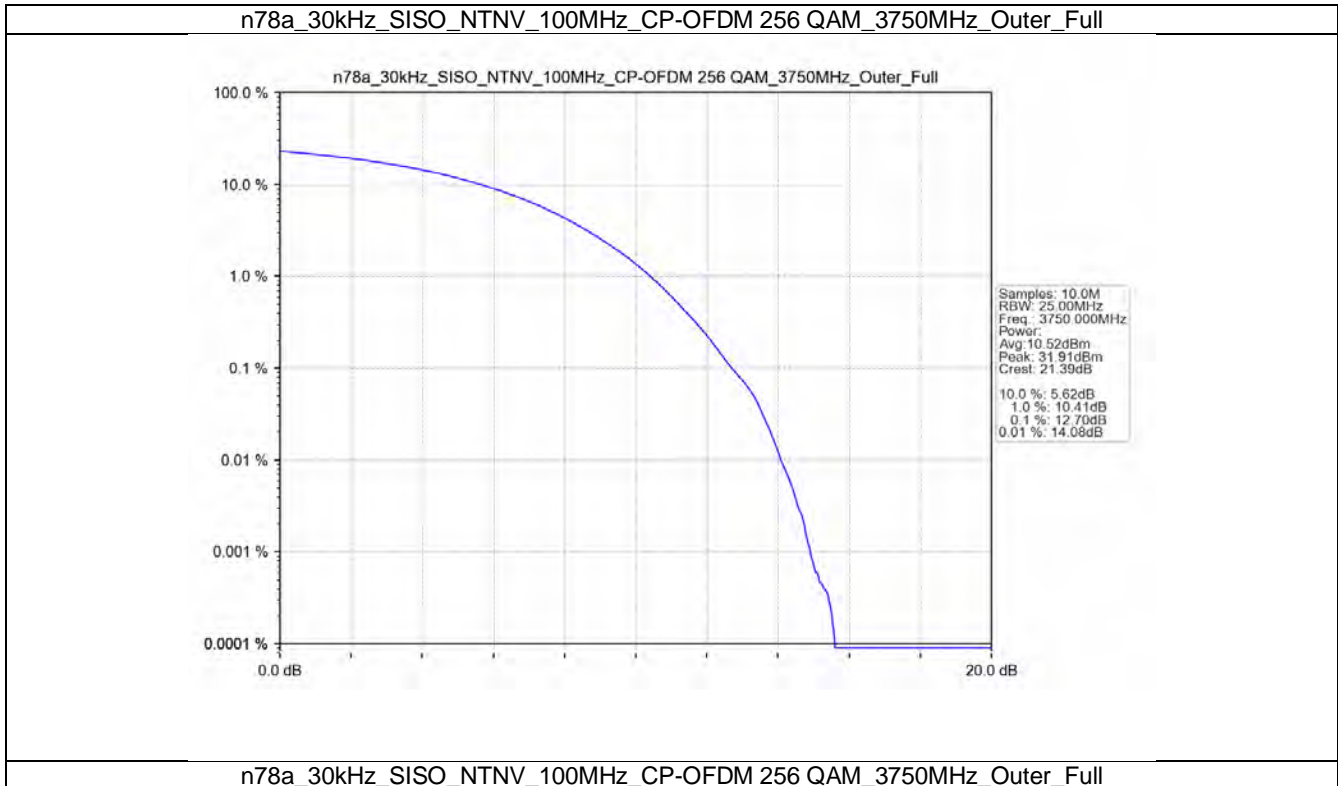


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Page: 573 of 1458



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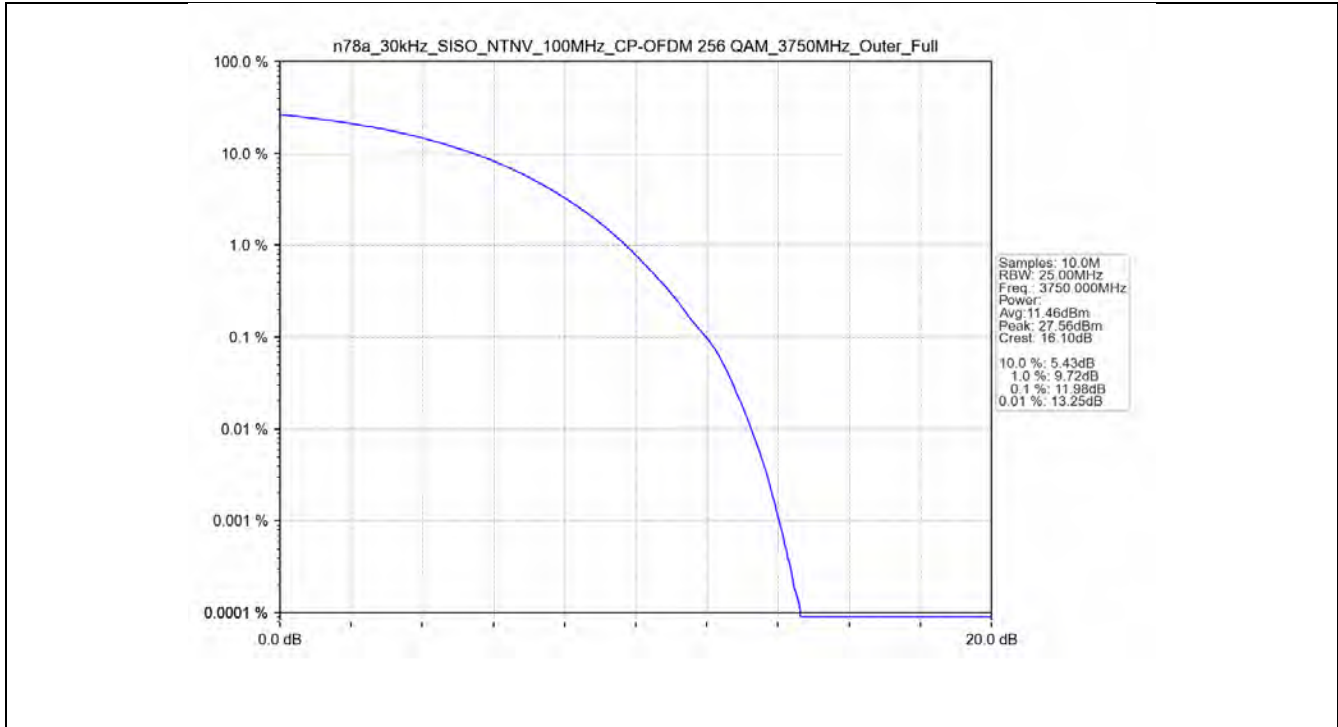


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Page: 574 of 1458



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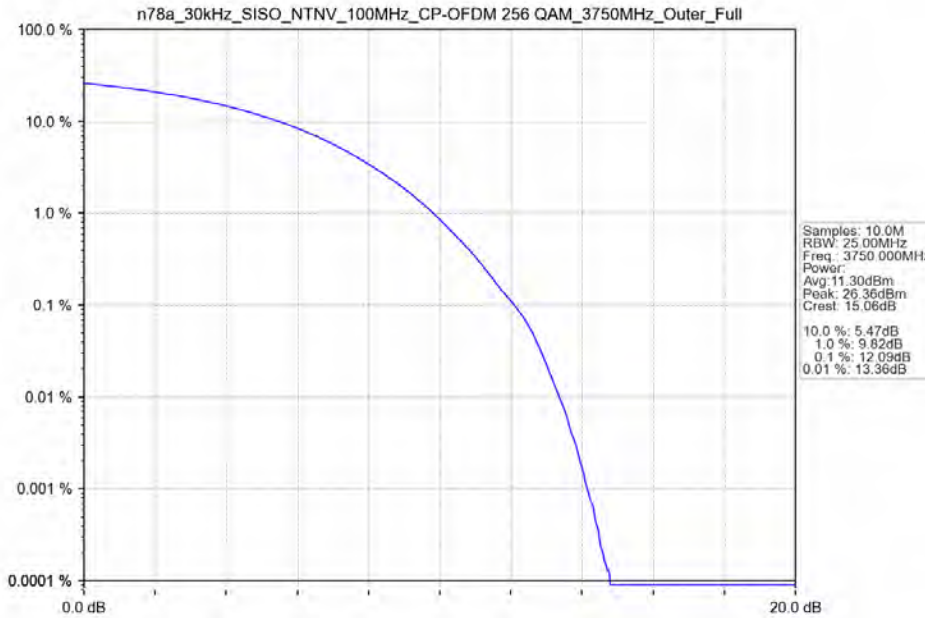
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Report No.: SZCR240100038409

Rev.: 01

Page: 576 of 1458

## 5. Spurious Emission & Band Edges

### 5.1 30k\_SISO\_20MHz\_NTNV

#### 5.1.1 Test Result

5G NR n78a SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict	
			Ant1	Ant4	Sum		Limit
DFT-s-OFDM PI/2 BPSK	3710.01	Edge_1RB_Left	Refer To Test Graph			Pass	
		Outer_Full	Refer To Test Graph			Pass	
		Inner_1RB_Left	Refer To Test Graph			Pass	
	3789.99	3750	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass	
			Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	3710.01	Edge_1RB_Left	Refer To Test Graph			Pass	
		Outer_Full	Refer To Test Graph			Pass	
		Inner_1RB_Left	Refer To Test Graph			Pass	
	3789.99	3750	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass	
			Outer_Full	Refer To Test Graph			Pass
CP-OFDM QPSK	3710.01	Edge_1RB_Left	Refer To Test Graph			Pass	
		Outer_Full	Refer To Test Graph			Pass	
		Inner_1RB_Left	Refer To Test Graph			Pass	
	3789.99	3750	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass	
			Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Right	Refer To Test Graph			Pass	



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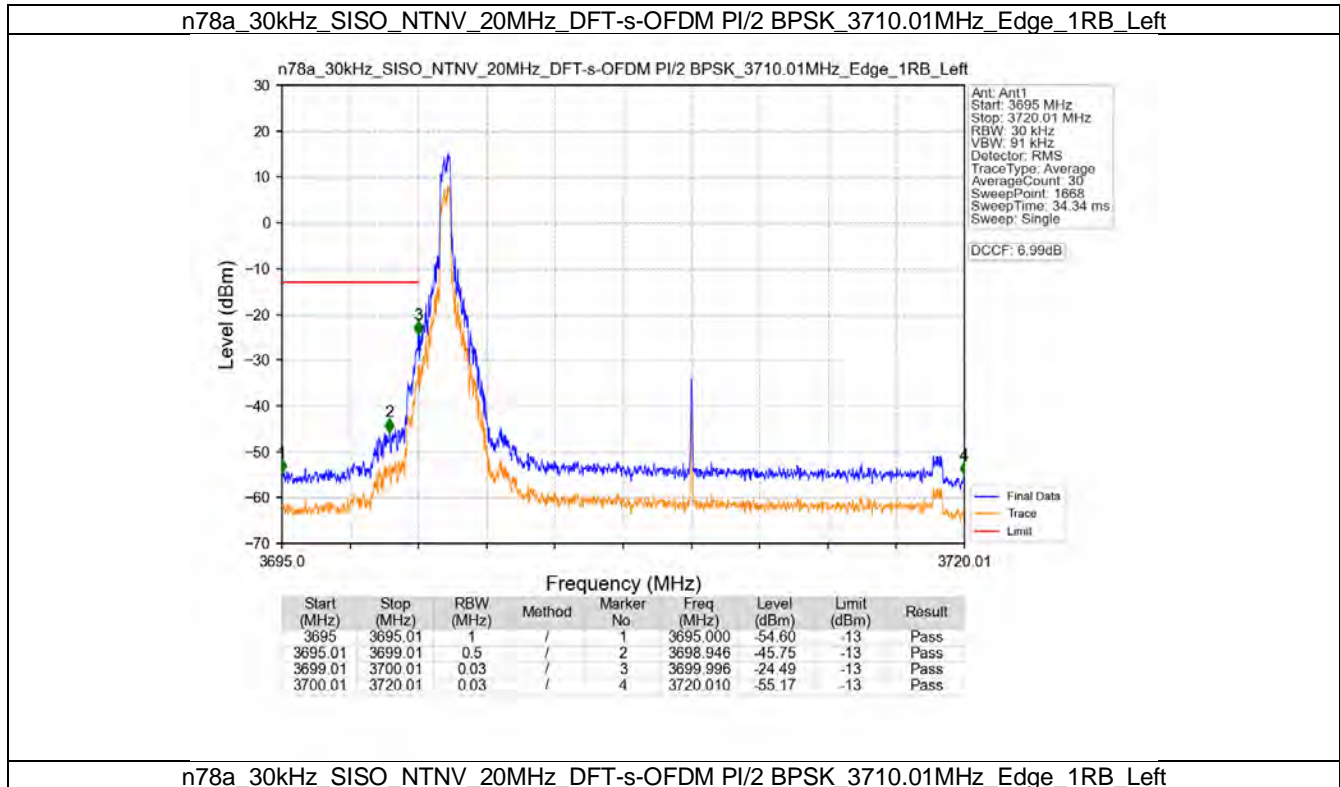
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5.1.2 Test Graph



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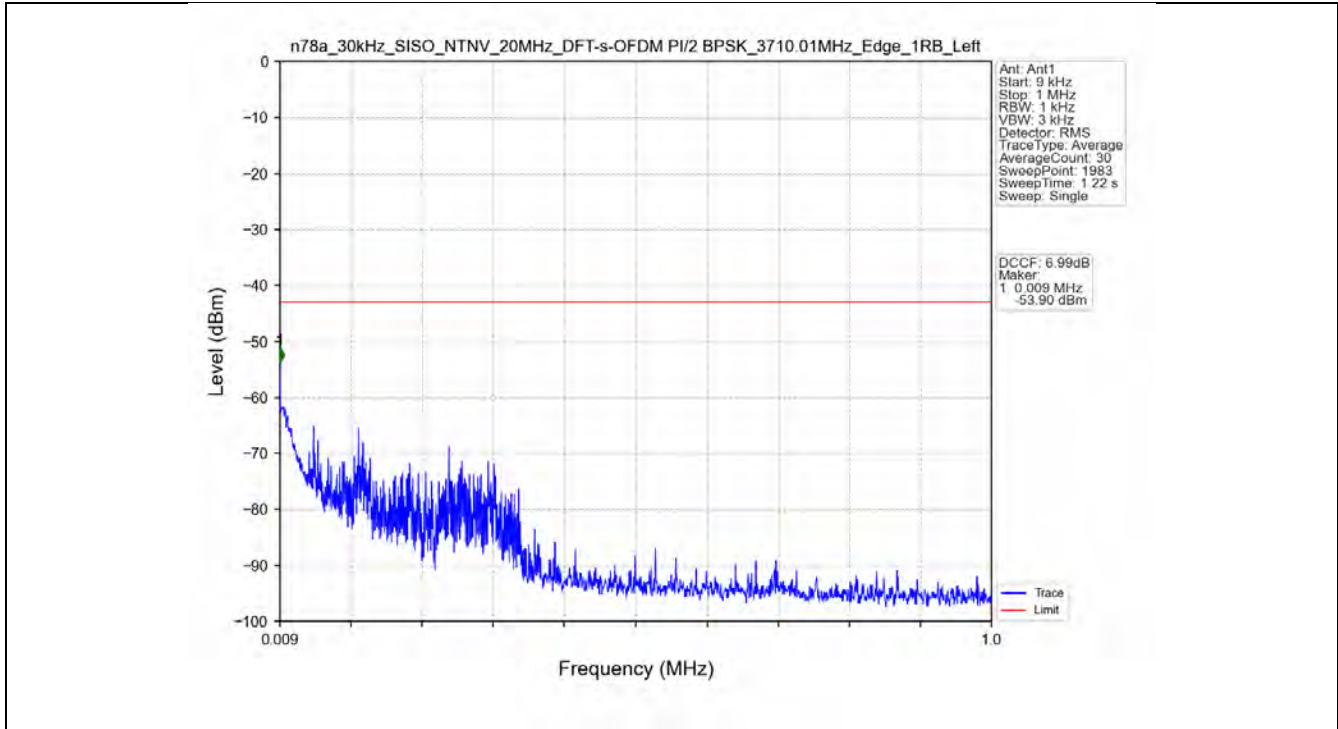


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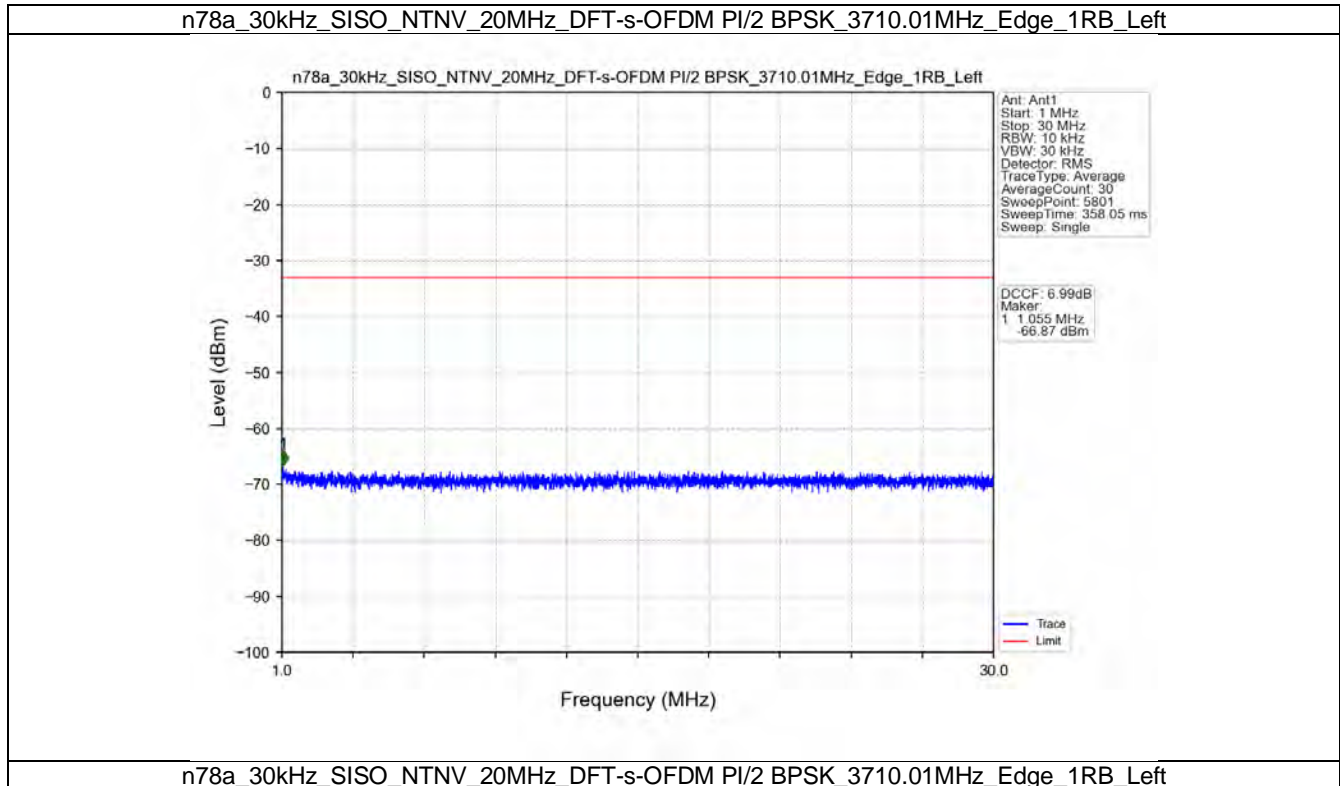


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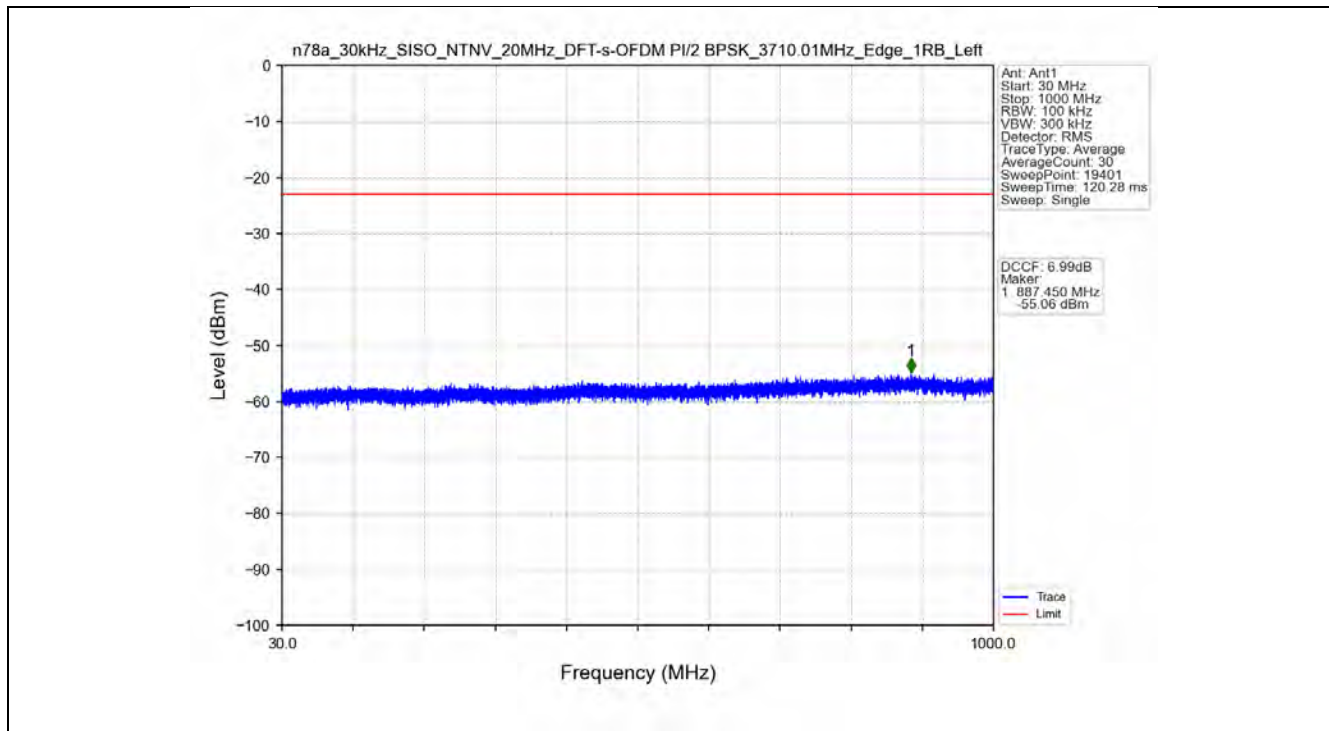
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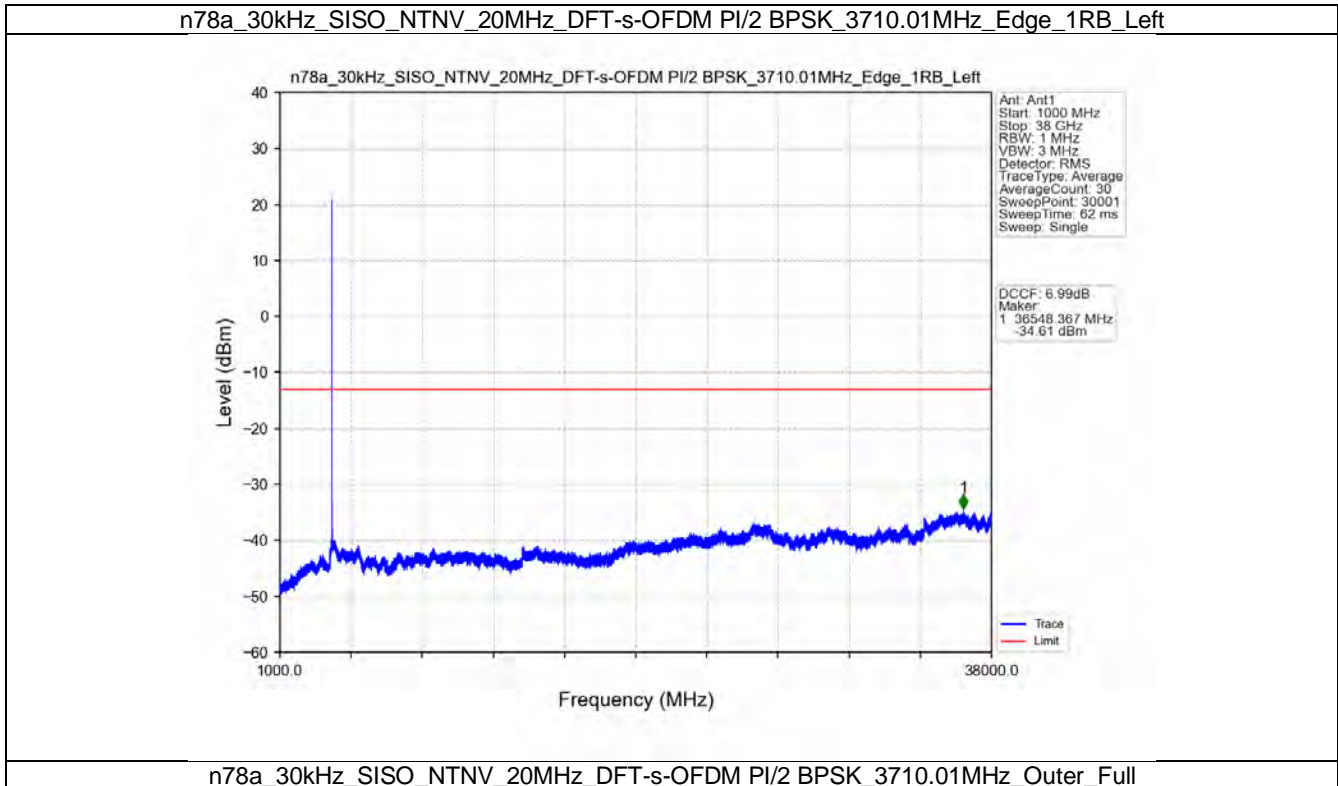


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Report No.: SZCR240100038409

Rev.: 01

Page: 581 of 1458



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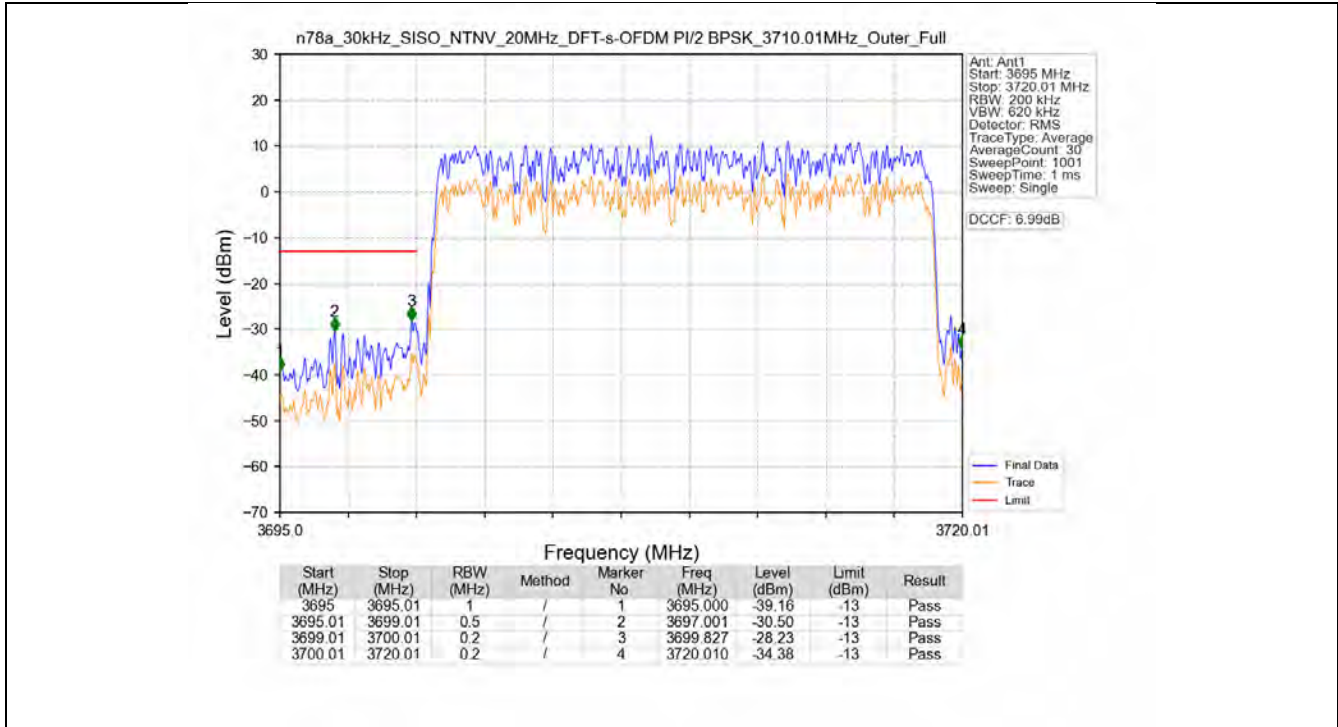


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Rev.: 01

Page: 582 of 1458



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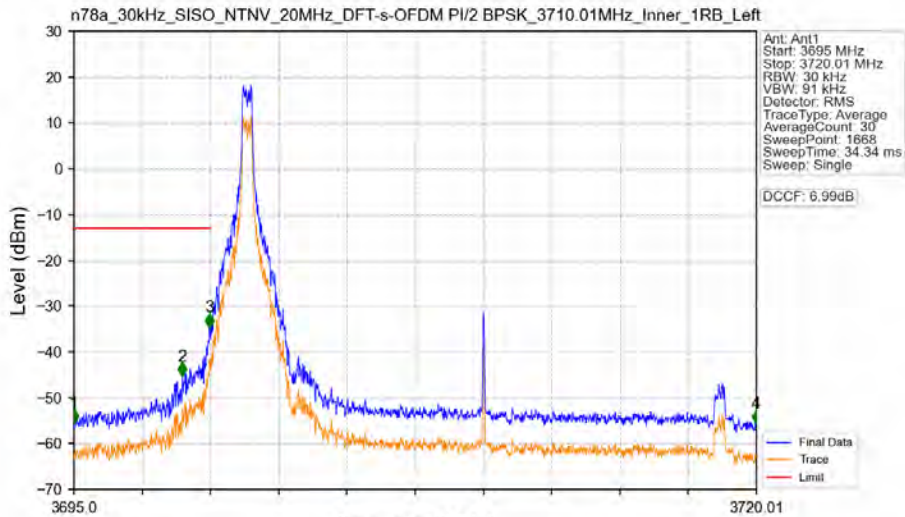
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Report No.: SZCR240100038409

Rev.: 01

Page: 583 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3710.01MHz\_Inner\_1RB\_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-55.61	-13	Pass
3695.01	3699.01	0.5	/	2	3698.976	-45.26	-13	Pass
3699.01	3700.01	0.03	/	3	3699.966	-34.64	-13	Pass
3700.01	3720.01	0.03	/	4	3720.010	-55.62	-13	Pass

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3750MHz\_Edge\_1RB\_Left



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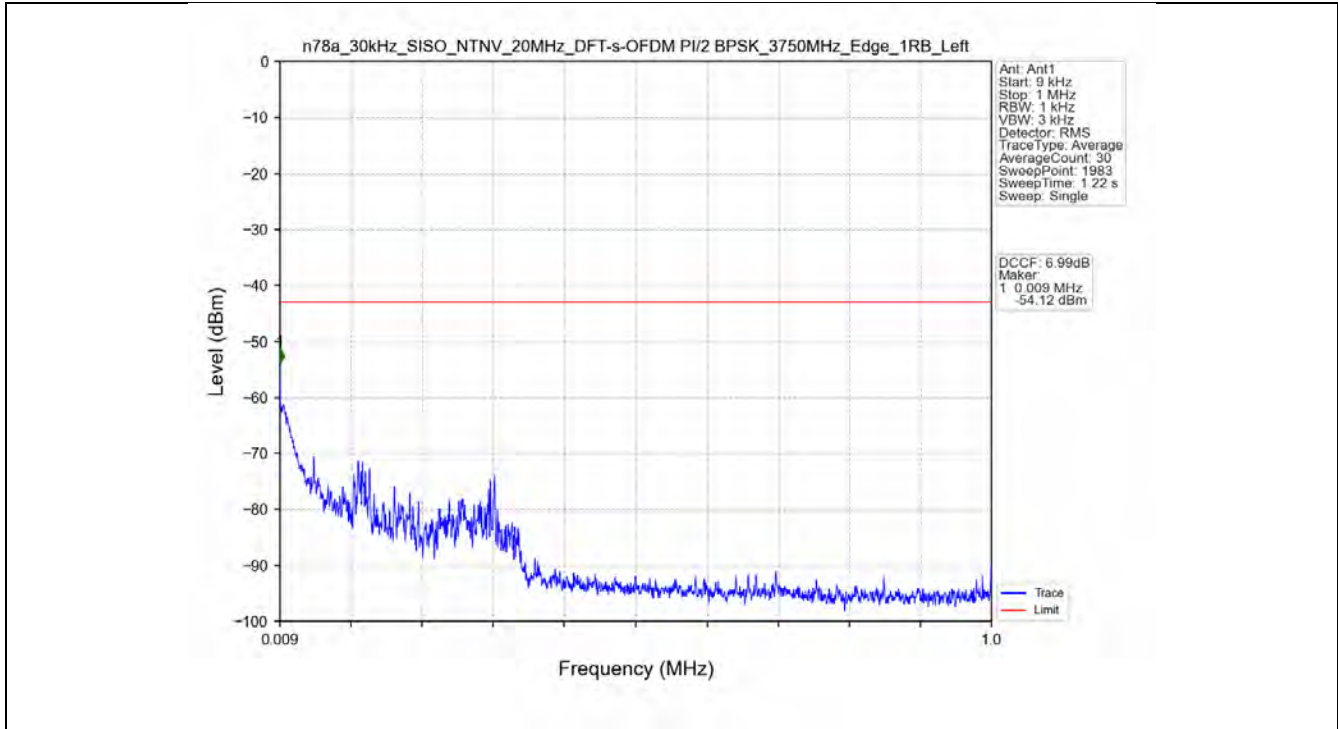


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Report No.: SZCR240100038409

Rev.: 01

Page: 584 of 1458



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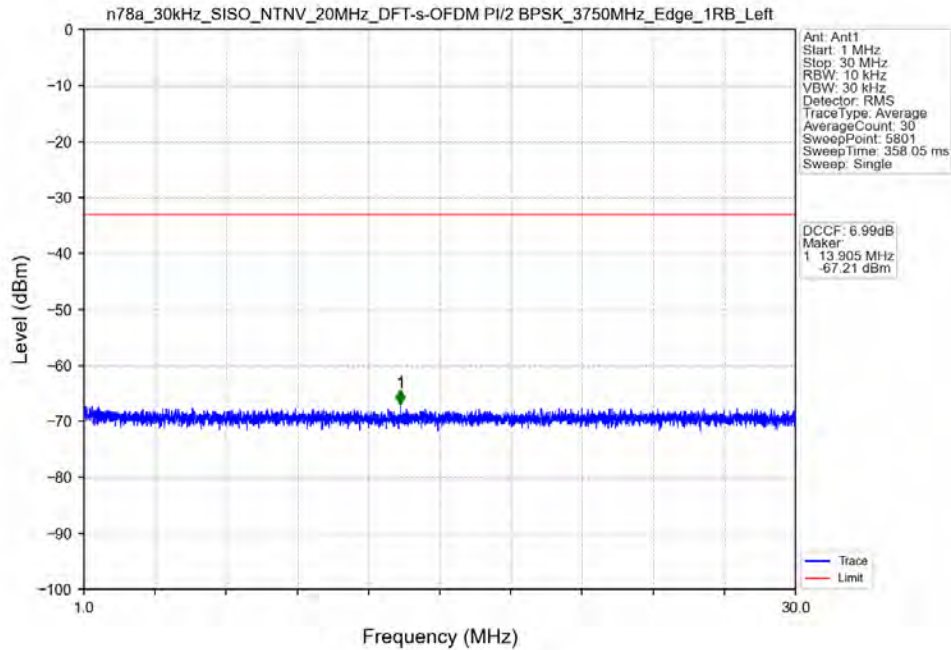
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Report No.: SZCR240100038409

Rev.: 01

Page: 585 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3750MHz\_Edge\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3750MHz\_Edge\_1RB\_Left



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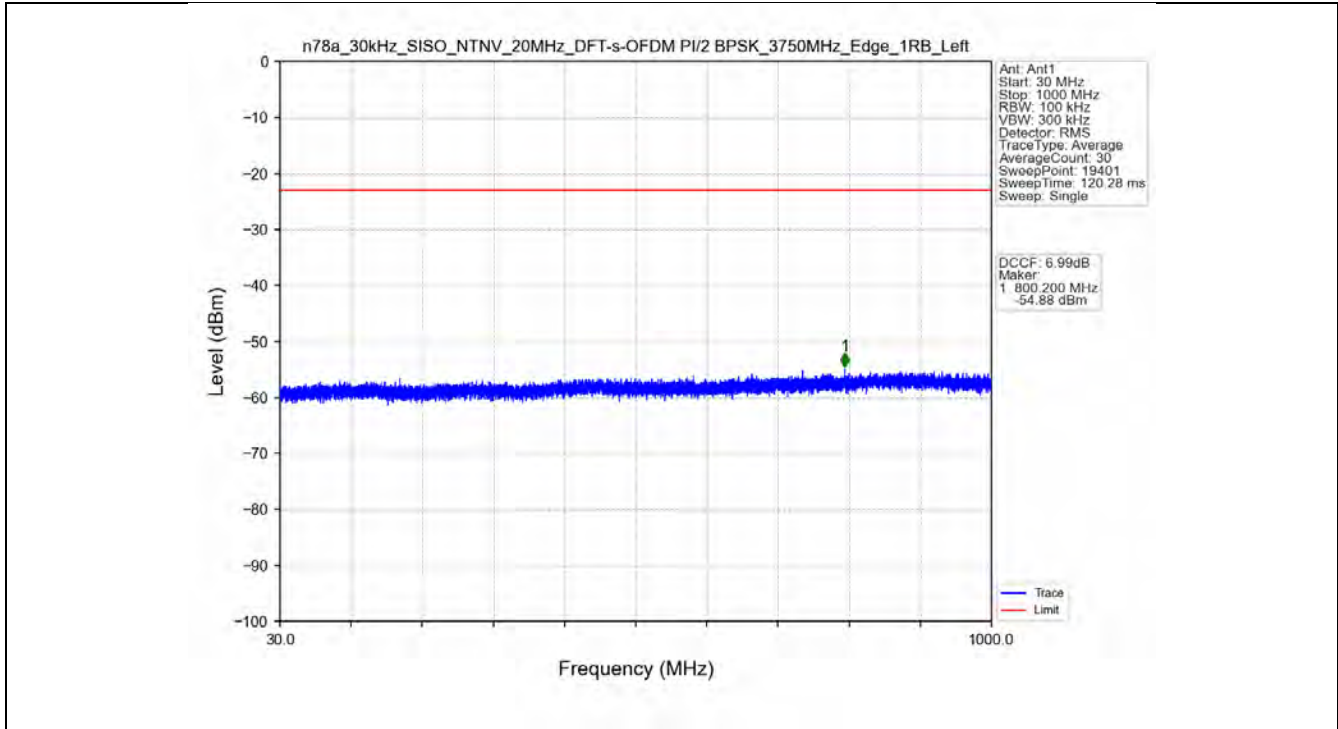


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Report No.: SZCR240100038409

Rev.: 01

Page: 586 of 1458



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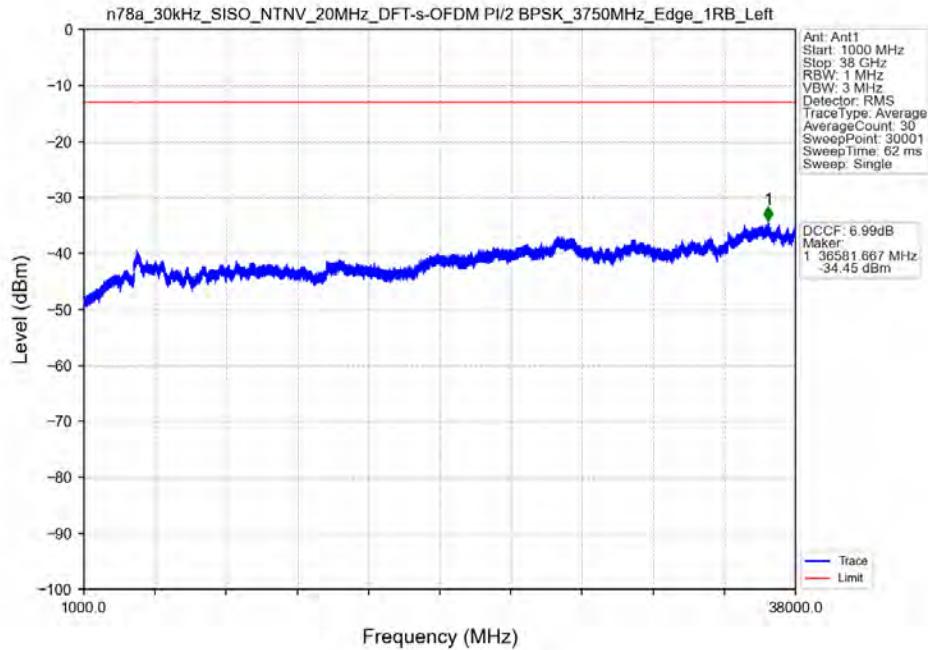
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Report No.: SZCR240100038409

Rev.: 01

Page: 587 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3750MHz\_Edge\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3789.99MHz\_Edge\_1RB\_Right



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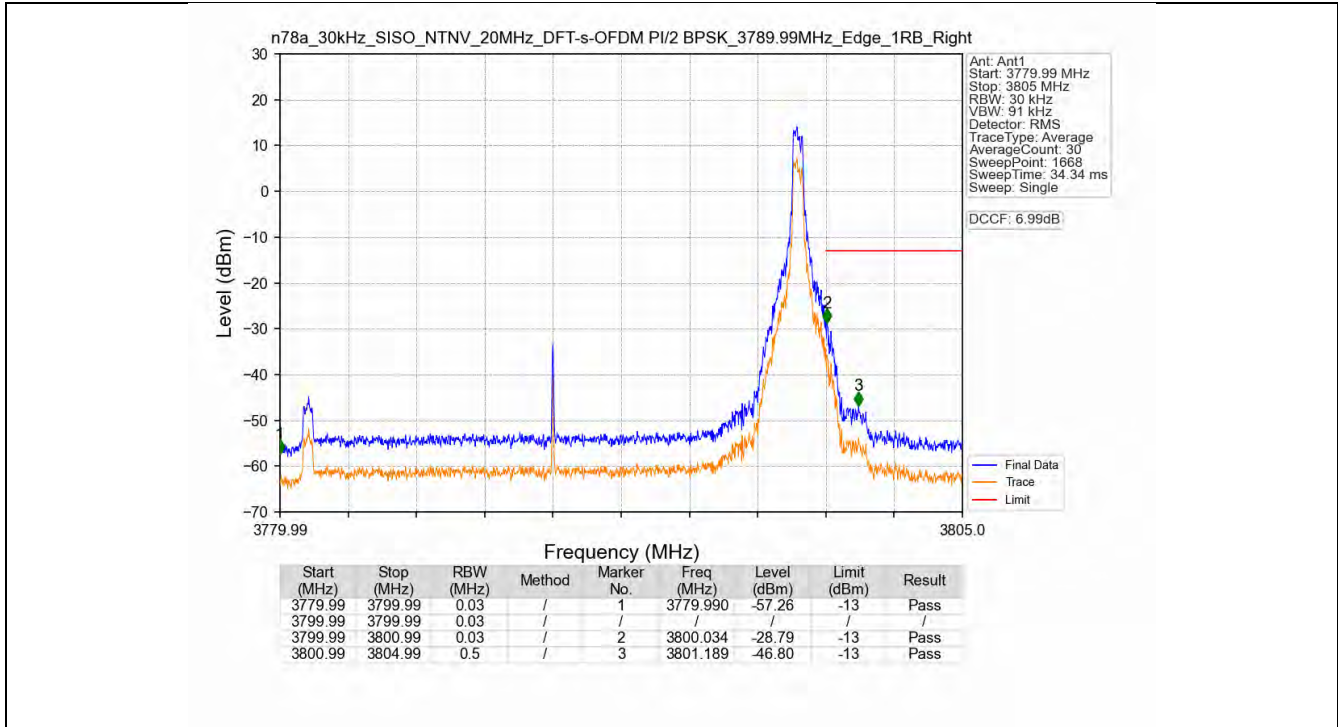


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Page: 588 of 1458



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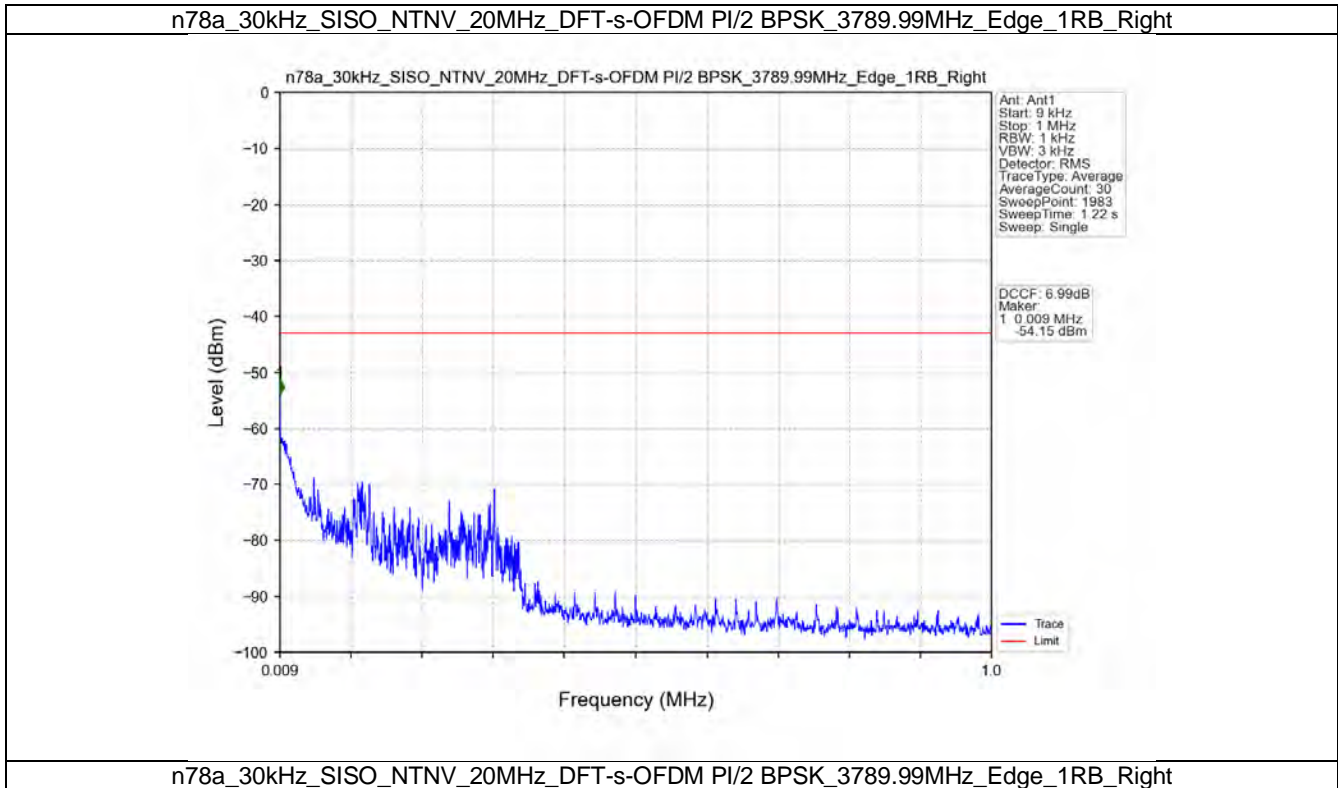


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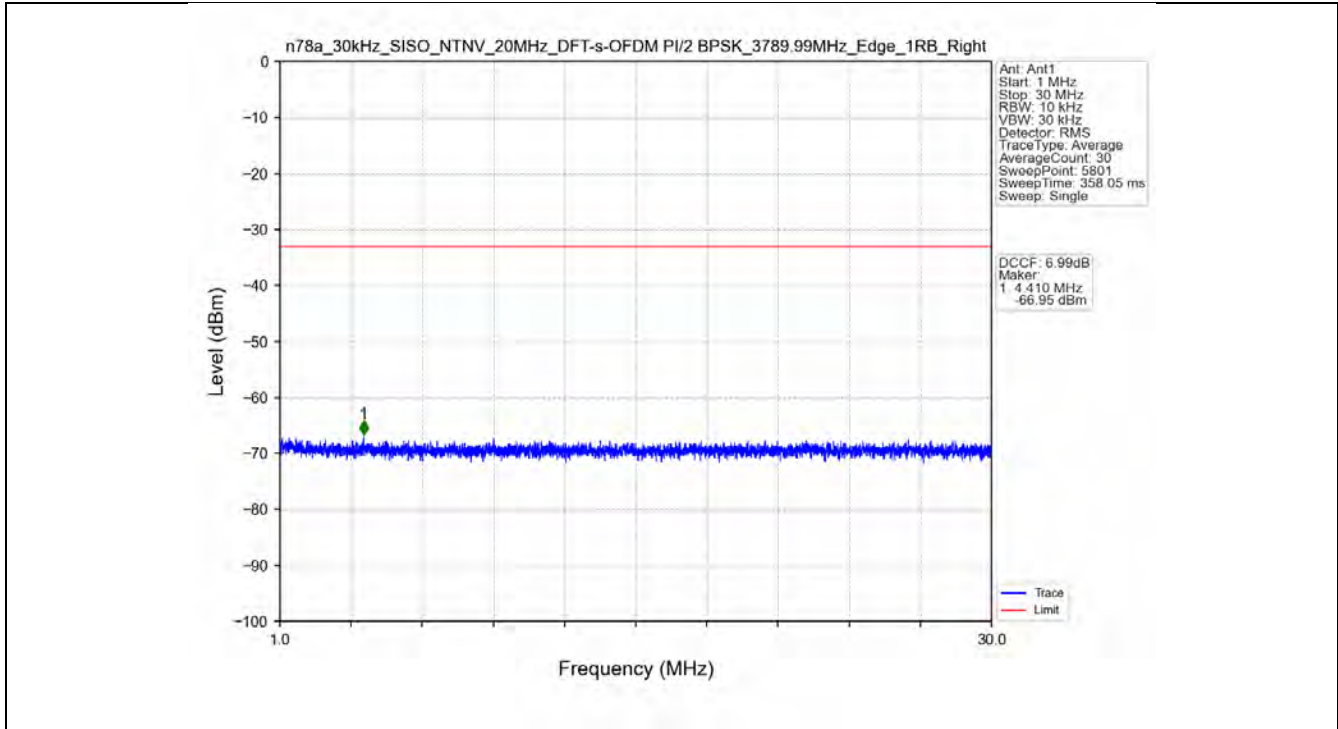


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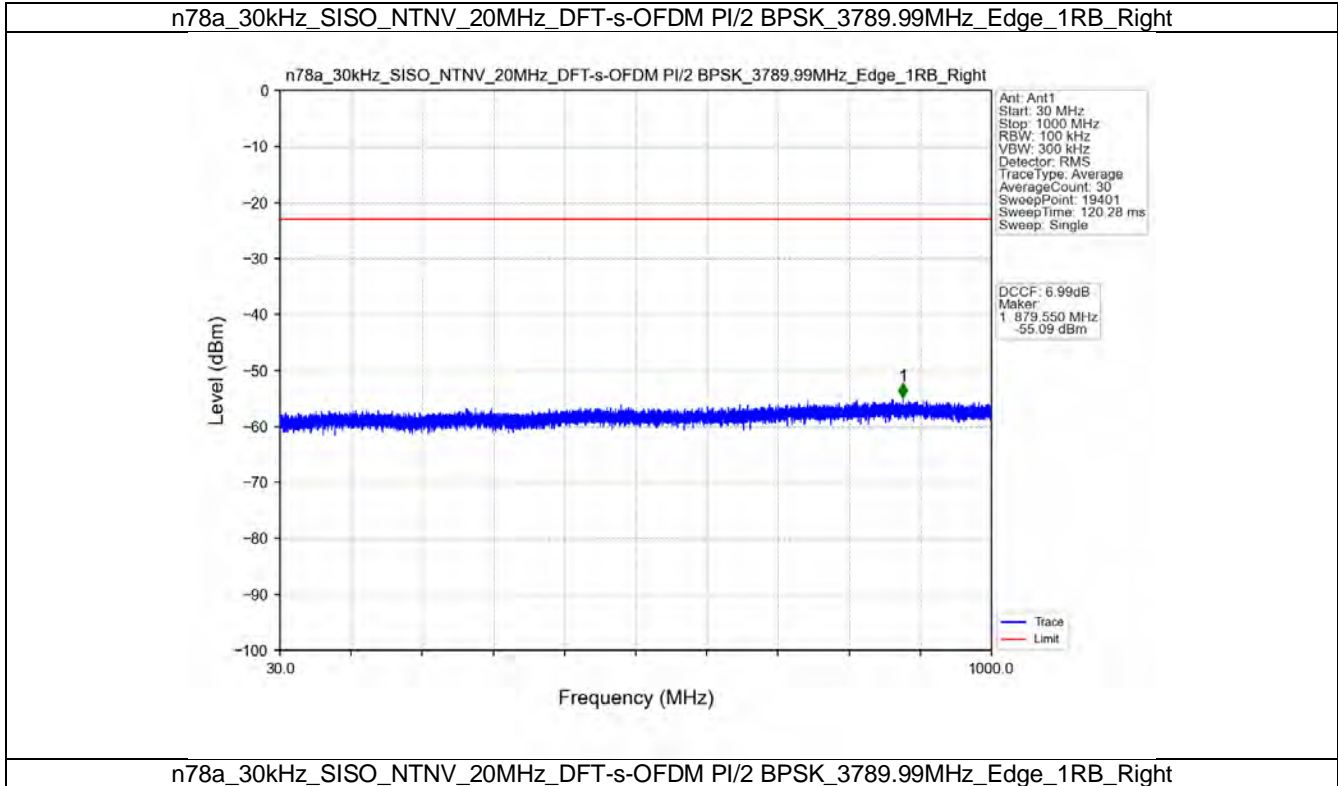


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Report No.: SZCR240100038409

Rev.: 01

Page: 591 of 1458



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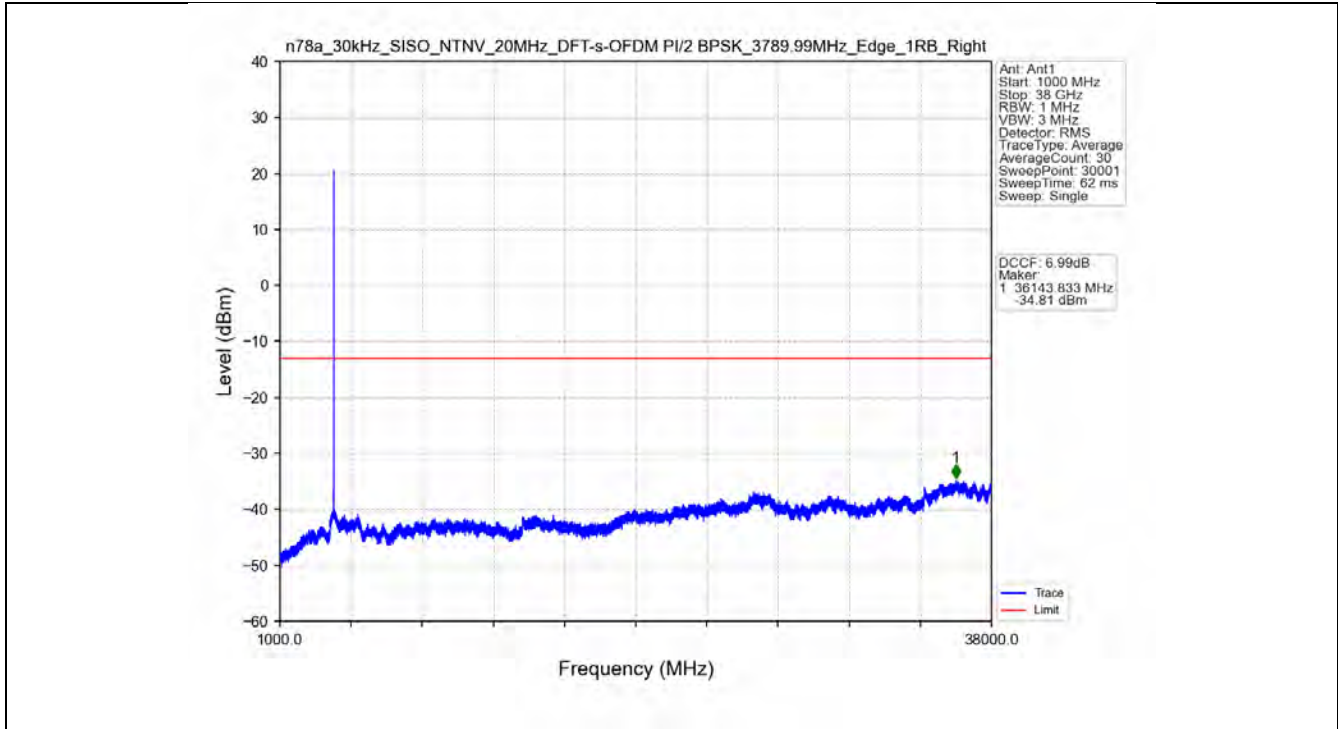


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Report No.: SZCR240100038409

Rev.: 01

Page: 592 of 1458



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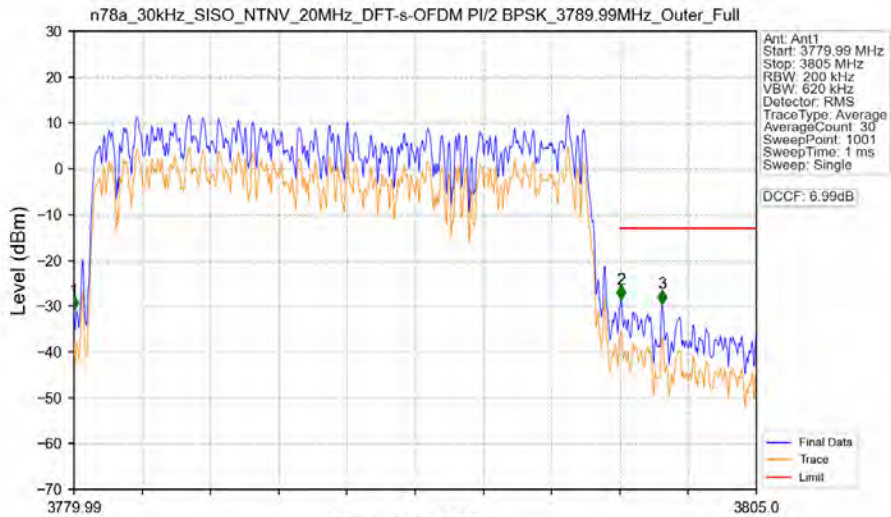
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Report No.: SZCR240100038409

Rev.: 01

Page: 593 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3789.99MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3779.99	3799.99	0.2	/	1	3779.990	-30.80	-13	Pass
3799.99	3799.99	0.2	/	/	/	/	/	/
3799.99	3800.99	0.2	/	2	3800.048	-28.52	-13	Pass
3800.99	3804.99	0.5	/	3	3801.549	-29.54	-13	Pass

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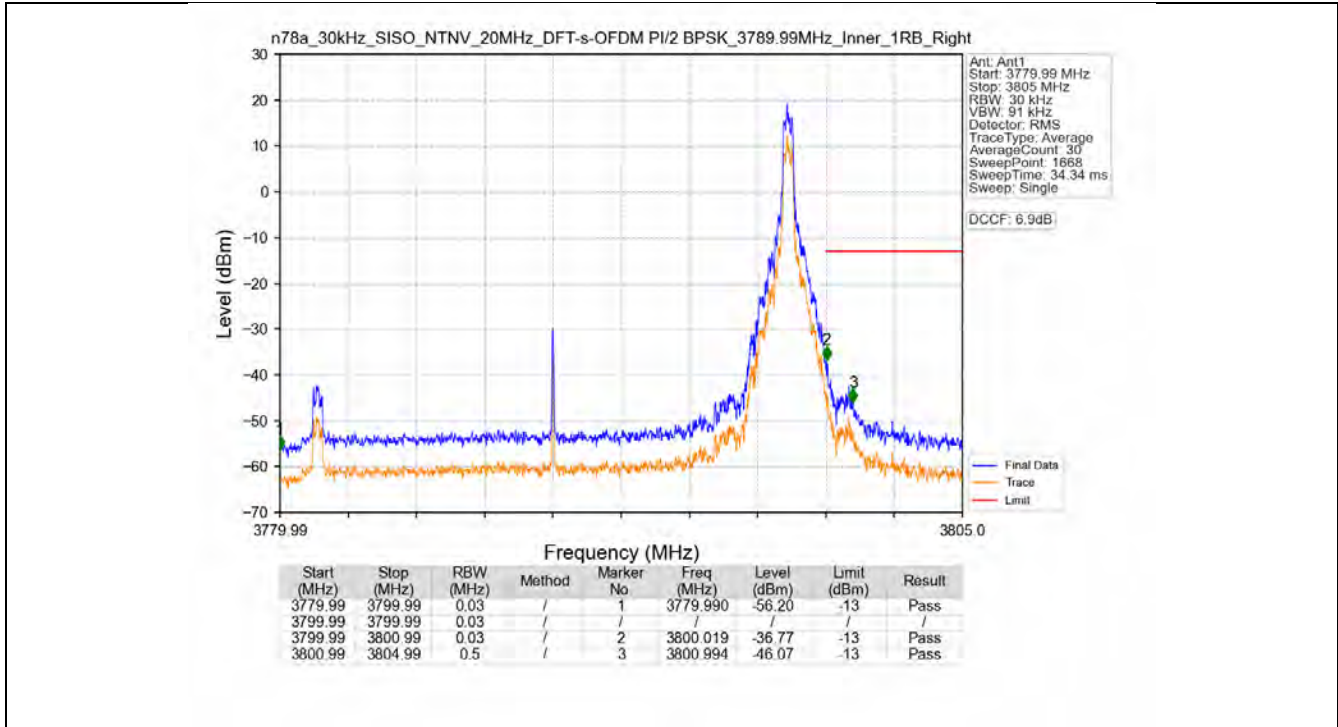


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Report No.: SZCR240100038409

Rev.: 01

Page: 594 of 1458



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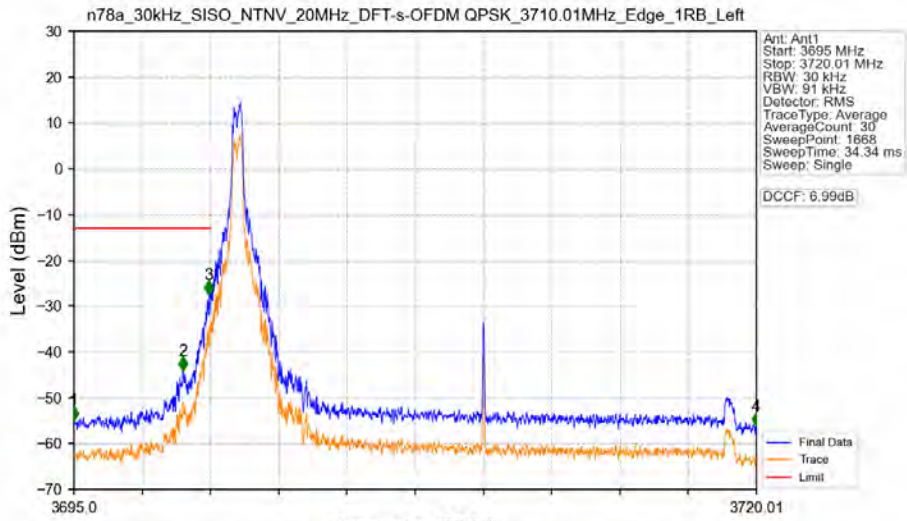
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Report No.: SZCR240100038409

Rev.: 01

Page: 595 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3710.01MHz\_Edge\_1RB\_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-54.92	-13	Pass
3695.01	3699.01	0.5	/	2	3698.991	-44.15	-13	Pass
3699.01	3700.01	0.03	/	3	3699.951	-27.47	-13	Pass
3700.01	3720.01	0.03	/	4	3720.010	-56.22	-13	Pass

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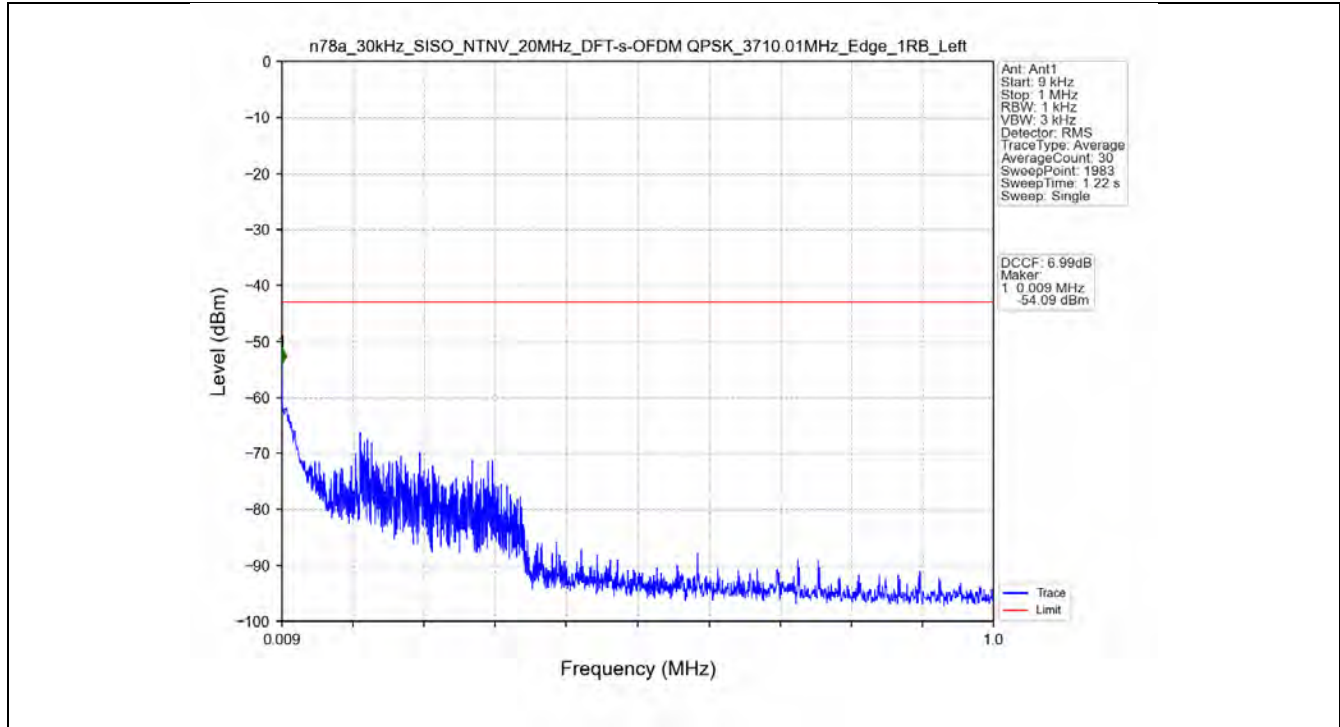


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Rev.: 01

Page: 596 of 1458



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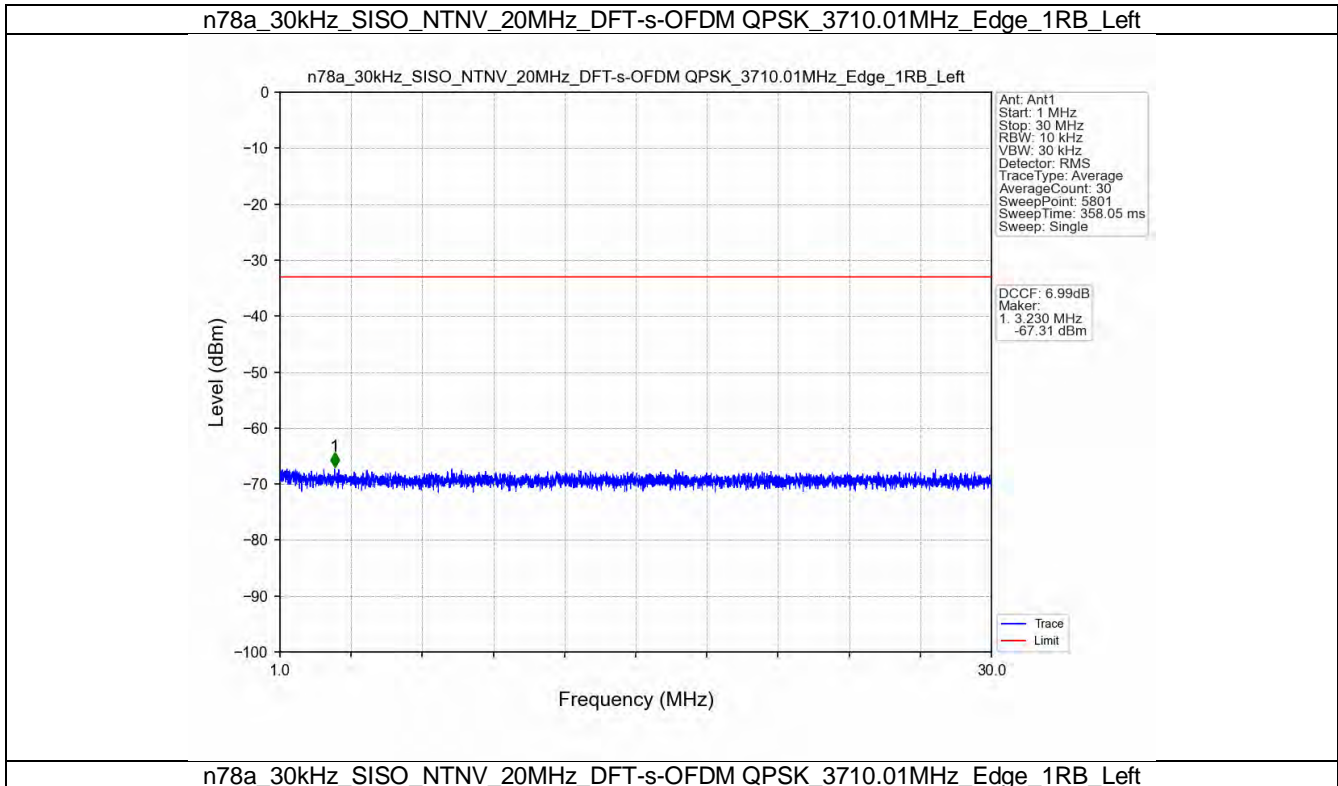


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Report No.: SZCR240100038409

Rev.: 01

Page: 597 of 1458



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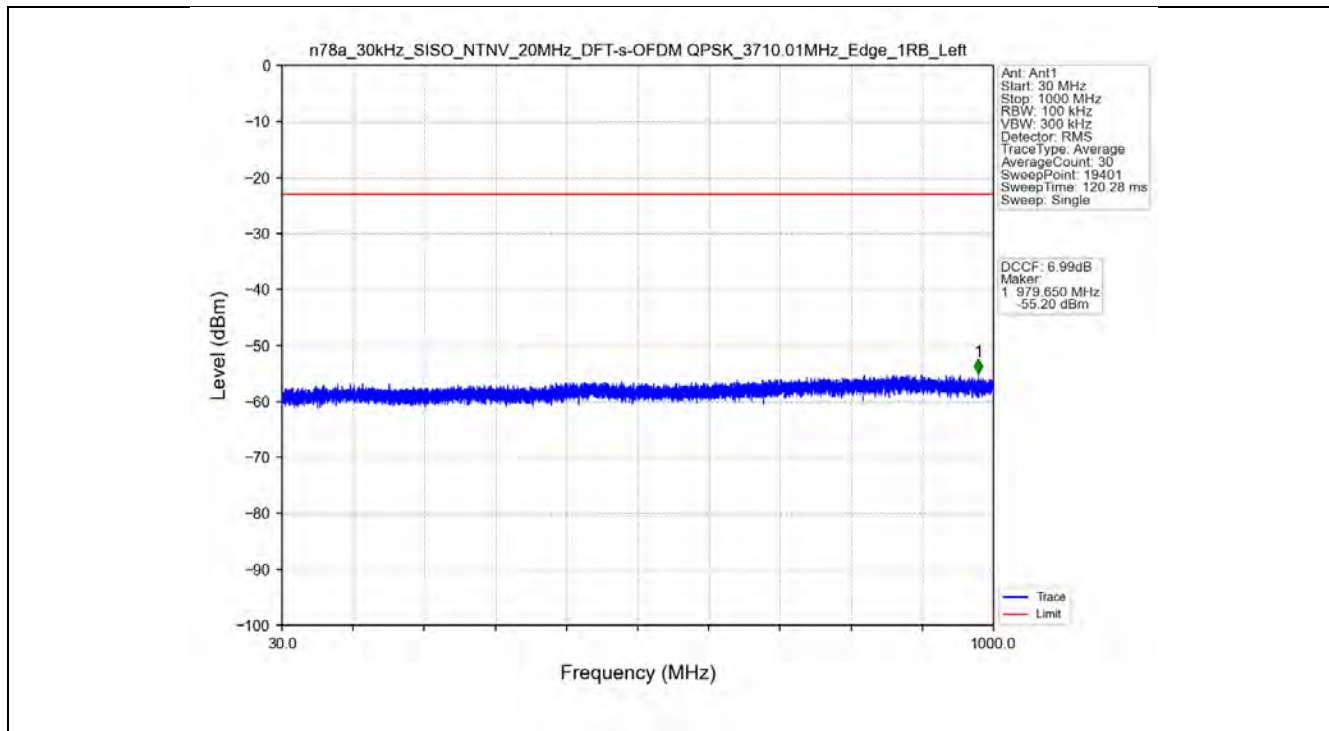
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Rev.: 01  
Page: 598 of 1458



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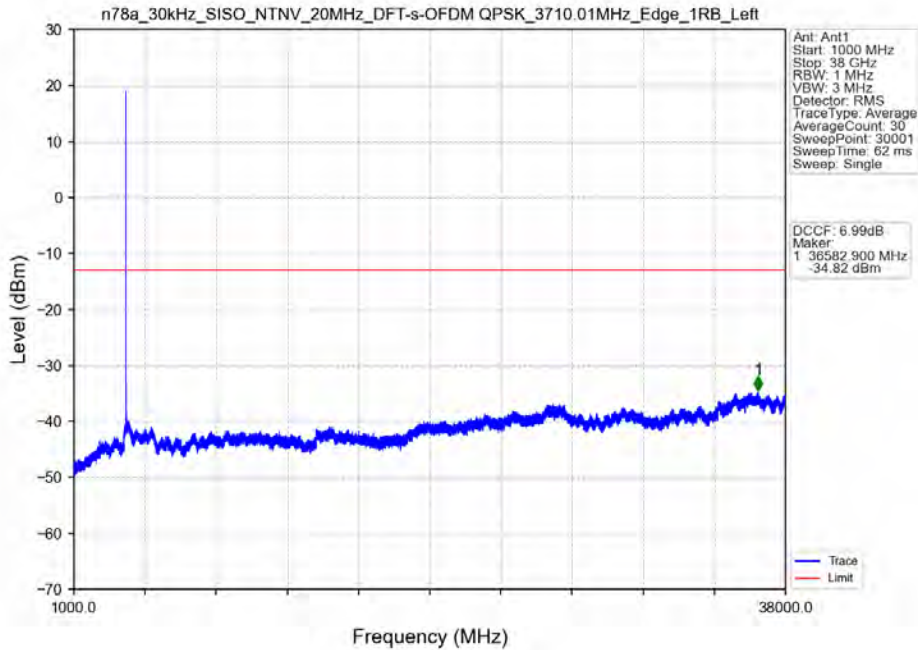
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Report No.: SZCR240100038409

Rev.: 01

Page: 599 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3710.01MHz\_Edge\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3710.01MHz\_Outer\_Full



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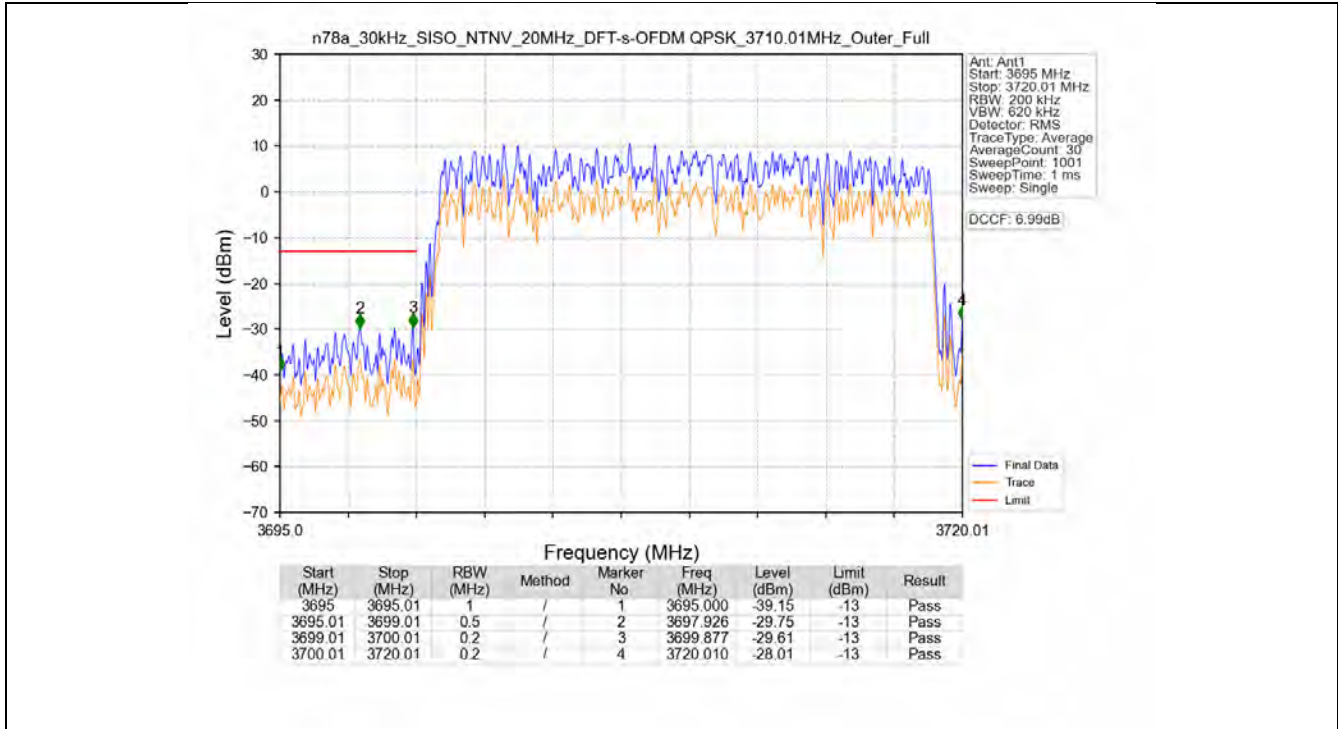


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Rev.: 01

Page: 600 of 1458



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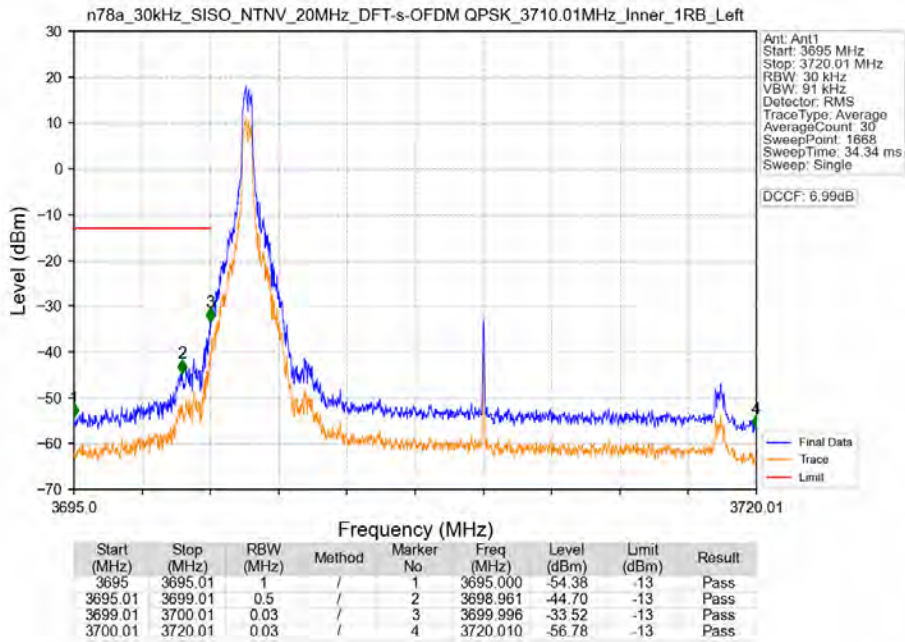
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Report No.: SZCR240100038409

Rev.: 01

Page: 601 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3710.01MHz\_Inner\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3750MHz\_Edge\_1RB\_Left



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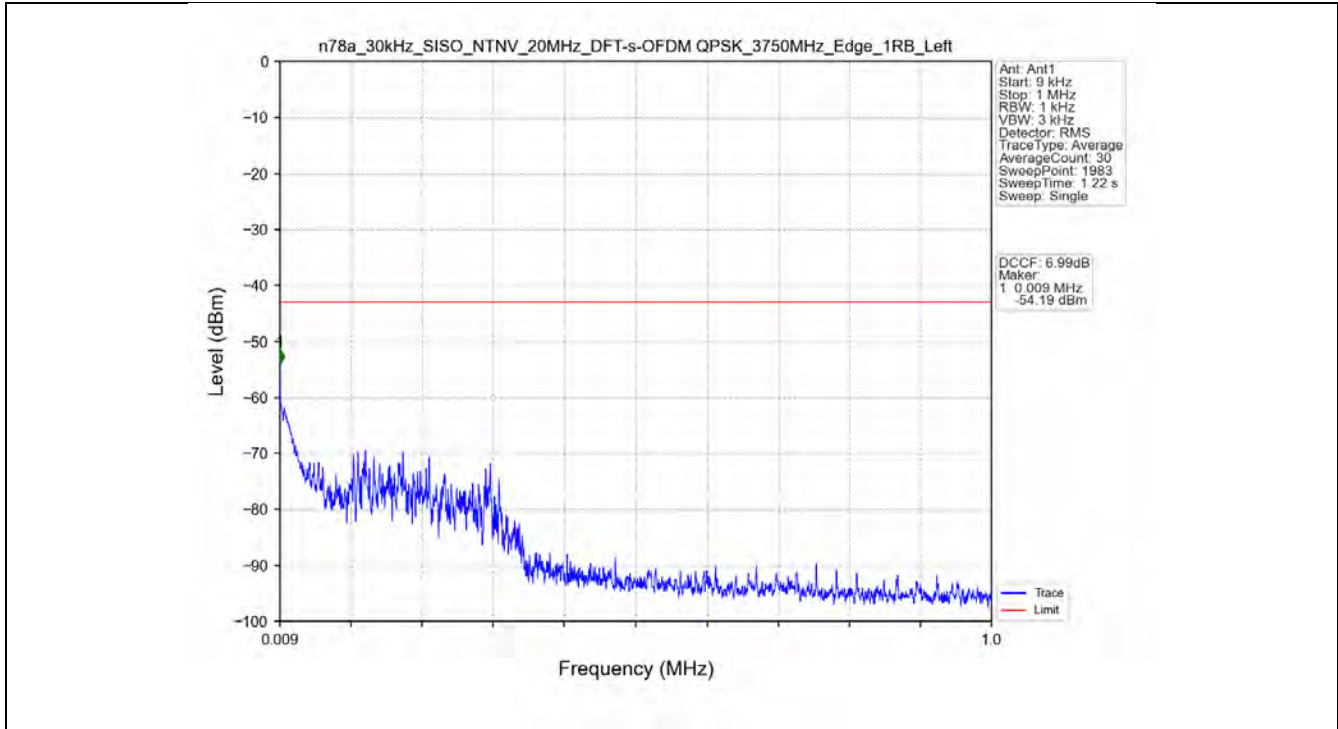


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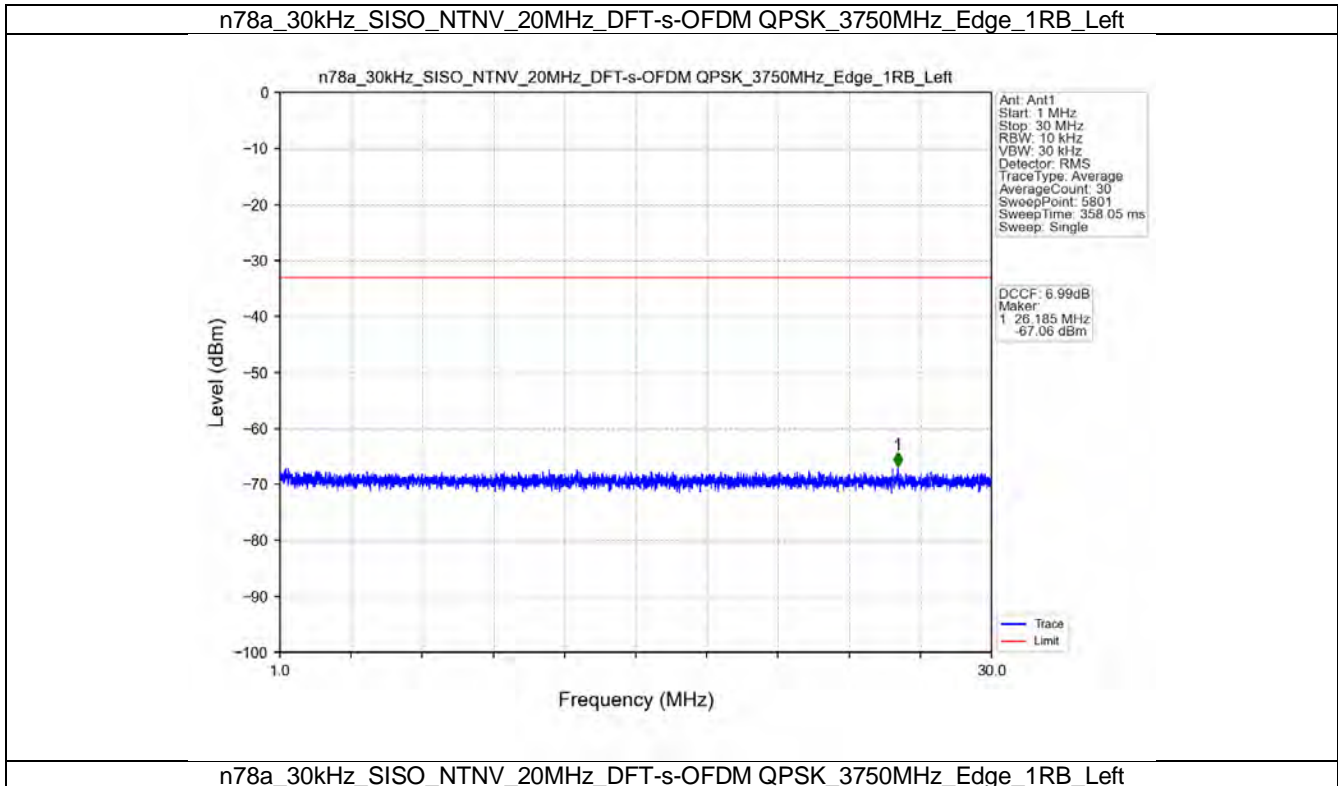


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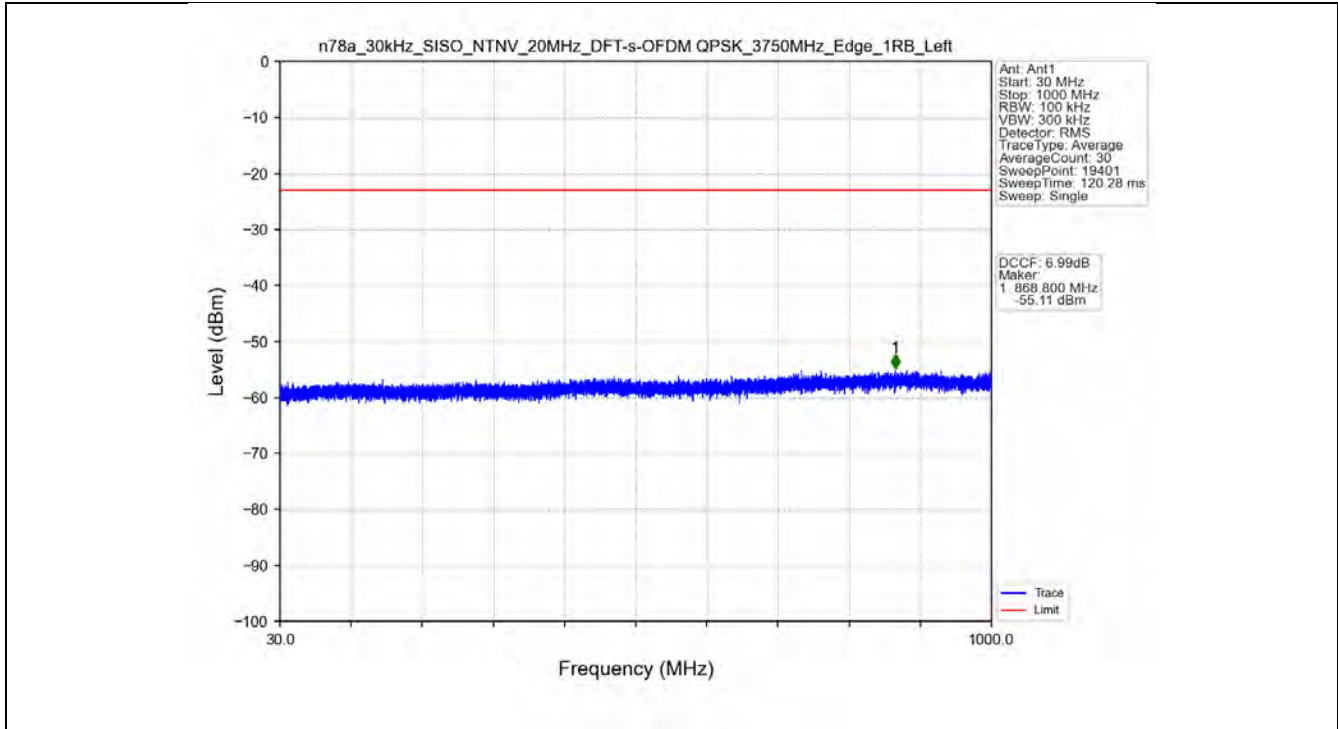


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Page: 604 of 1458



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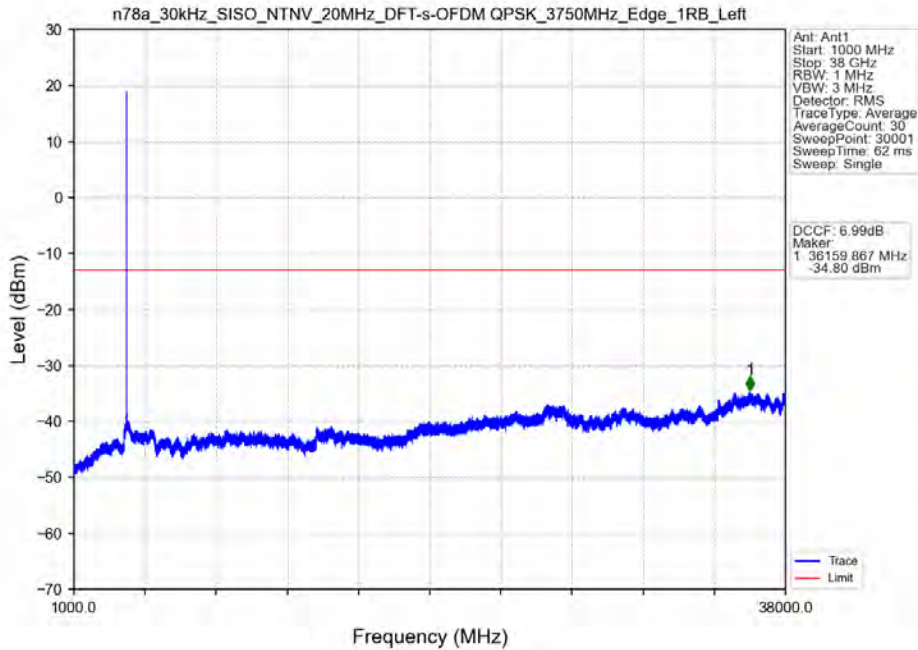
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Report No.: SZCR240100038409

Rev.: 01

Page: 605 of 1458

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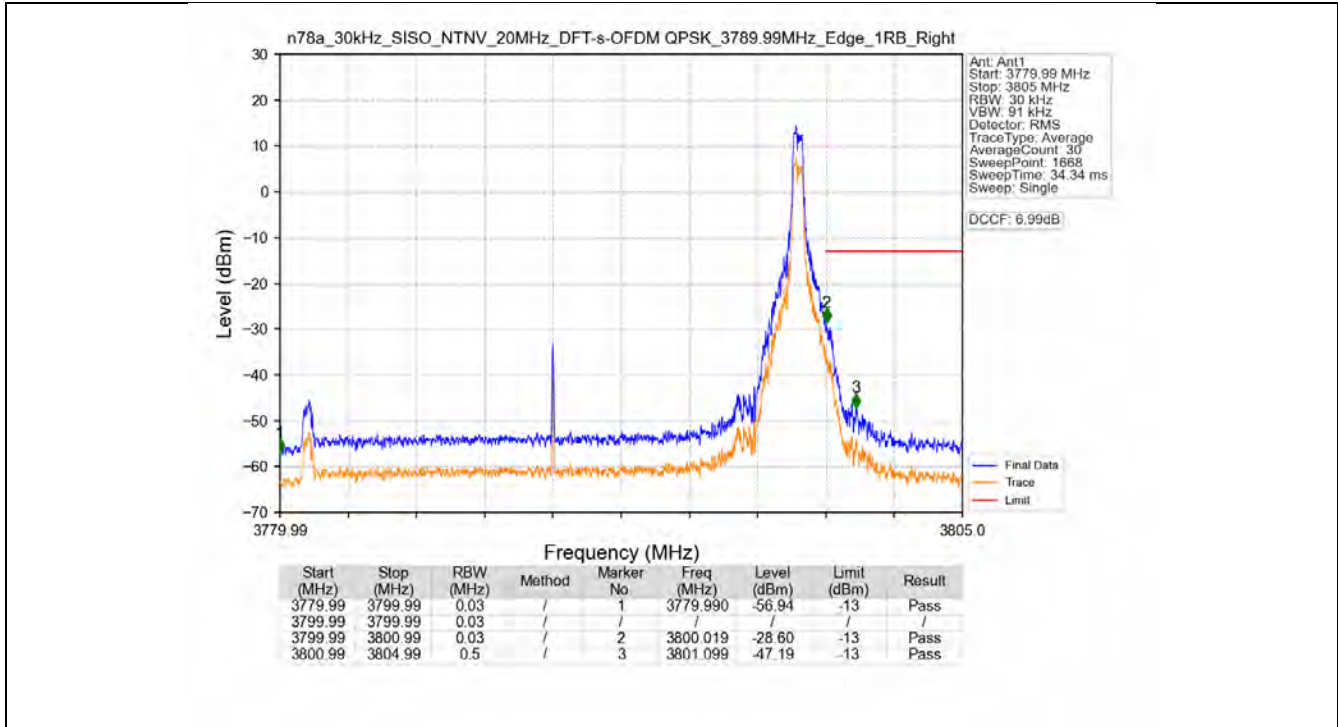


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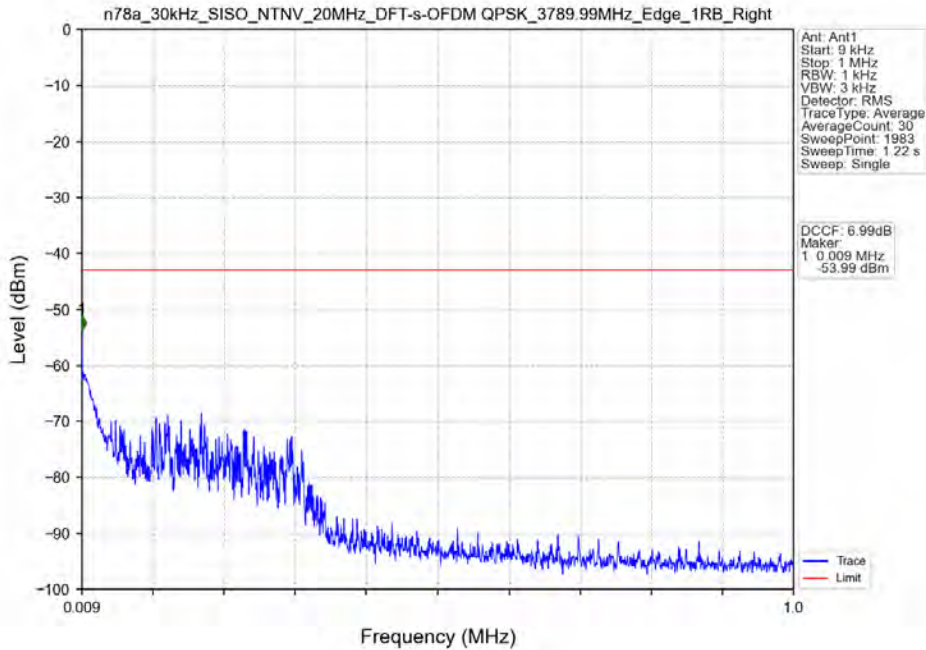
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Report No.: SZCR240100038409

Rev.: 01

Page: 607 of 1458

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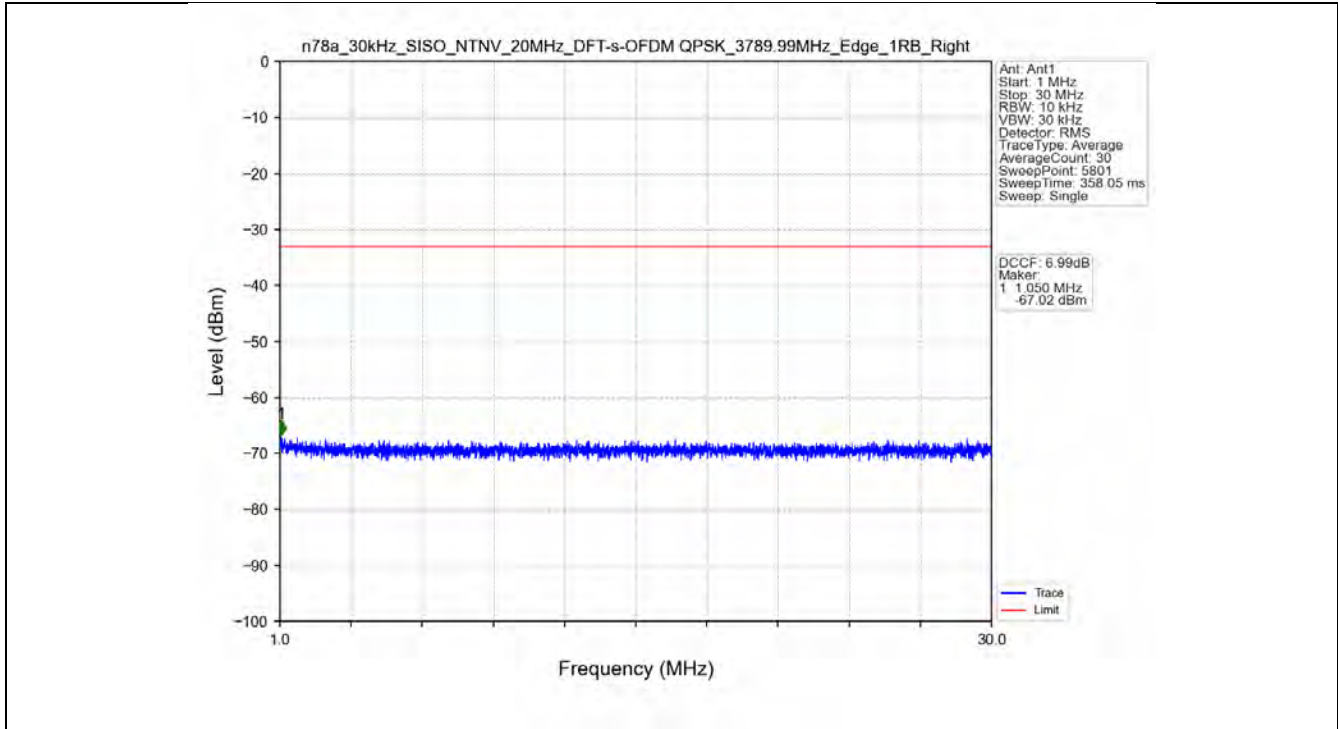


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Report No.: SZCR240100038409

Rev.: 01

Page: 608 of 1458



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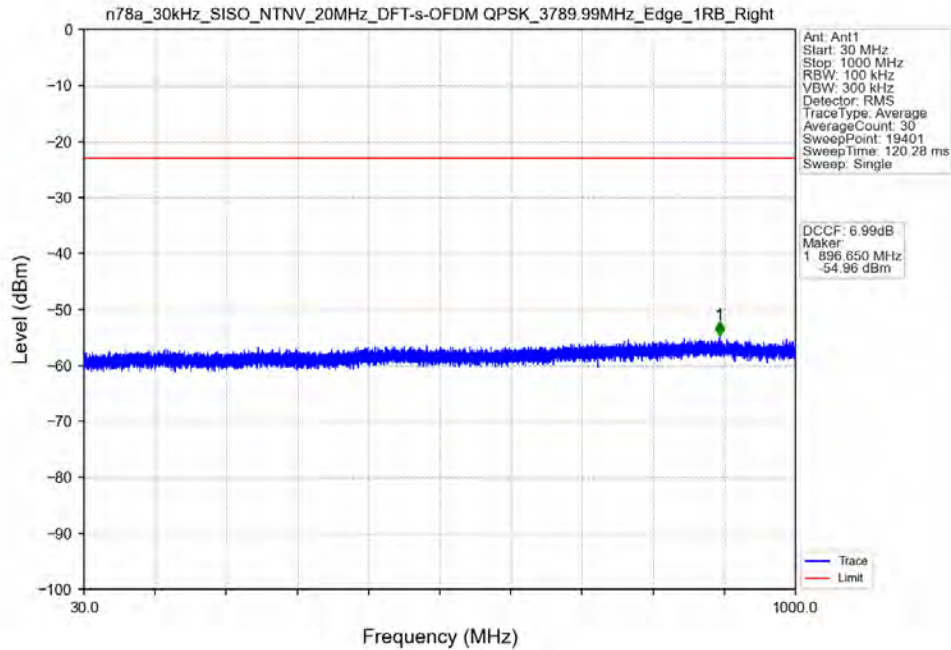
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Report No.: SZCR240100038409

Rev.: 01

Page: 609 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3789.99MHz\_Edge\_1RB\_Right



n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3789.99MHz\_Edge\_1RB\_Right



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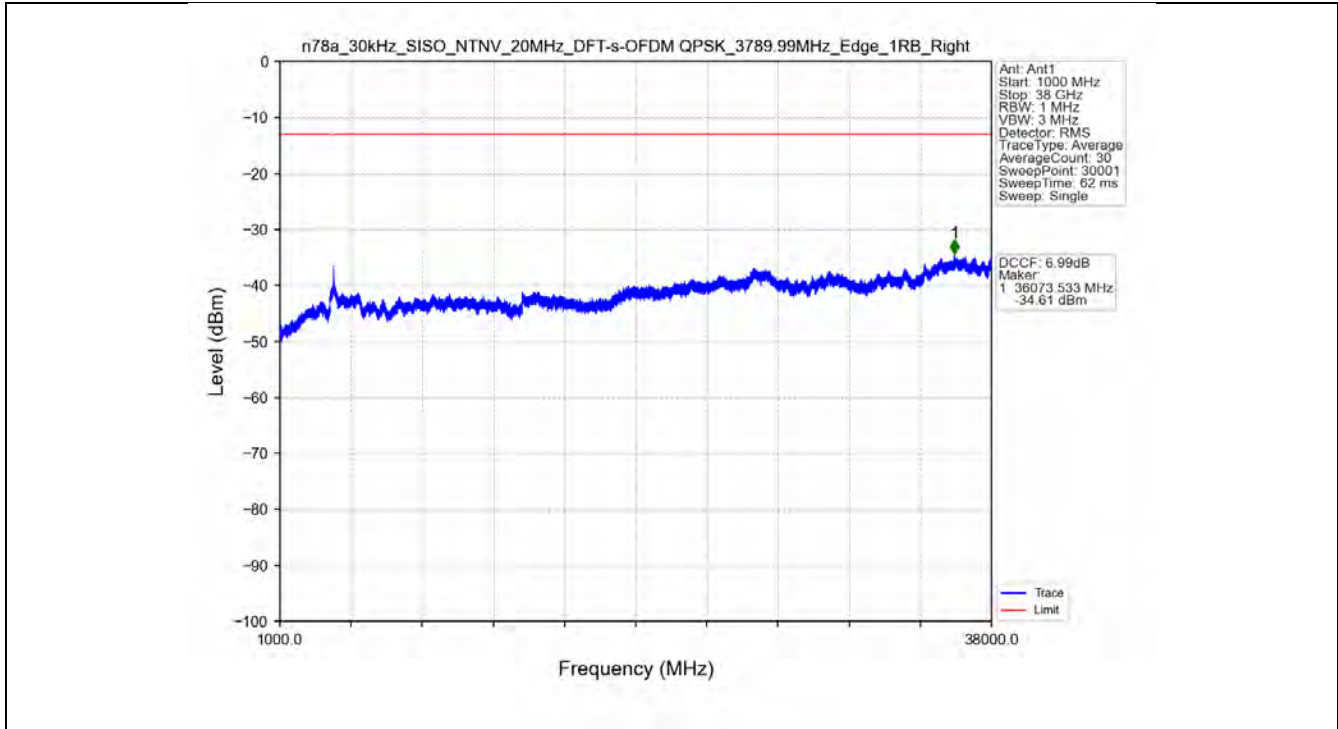


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Report No.: SZCR240100038409

Rev.: 01

Page: 610 of 1458



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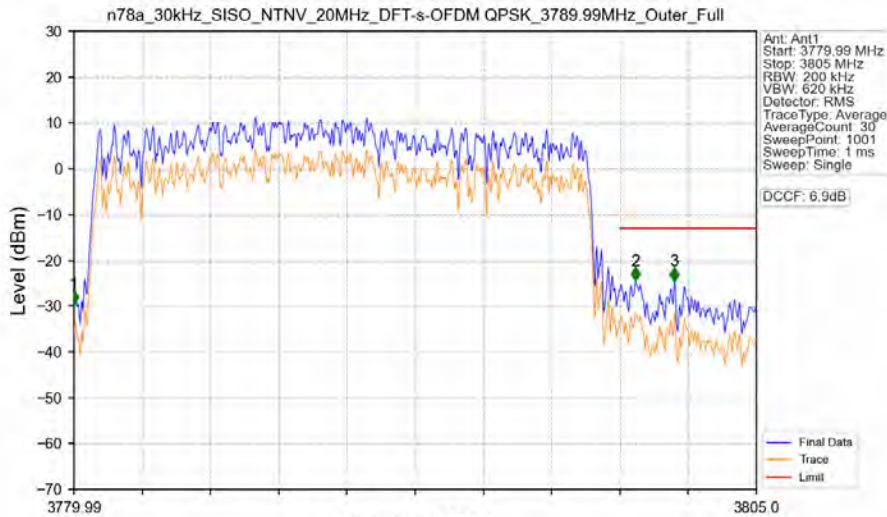
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Report No.: SZCR240100038409

Rev.: 01

Page: 611 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3789.99MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3779.99	3799.99	0.2	/	1	3779.990	-29.55	-13	Pass
3799.99	3799.99	0.2	/	/	/	/	/	/
3799.99	3800.99	0.2	/	2	3800.573	-24.56	-13	Pass
3800.99	3804.99	0.5	/	3	3801.999	-24.60	-13	Pass

n78a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3789.99MHz\_Inner\_1RB\_Right



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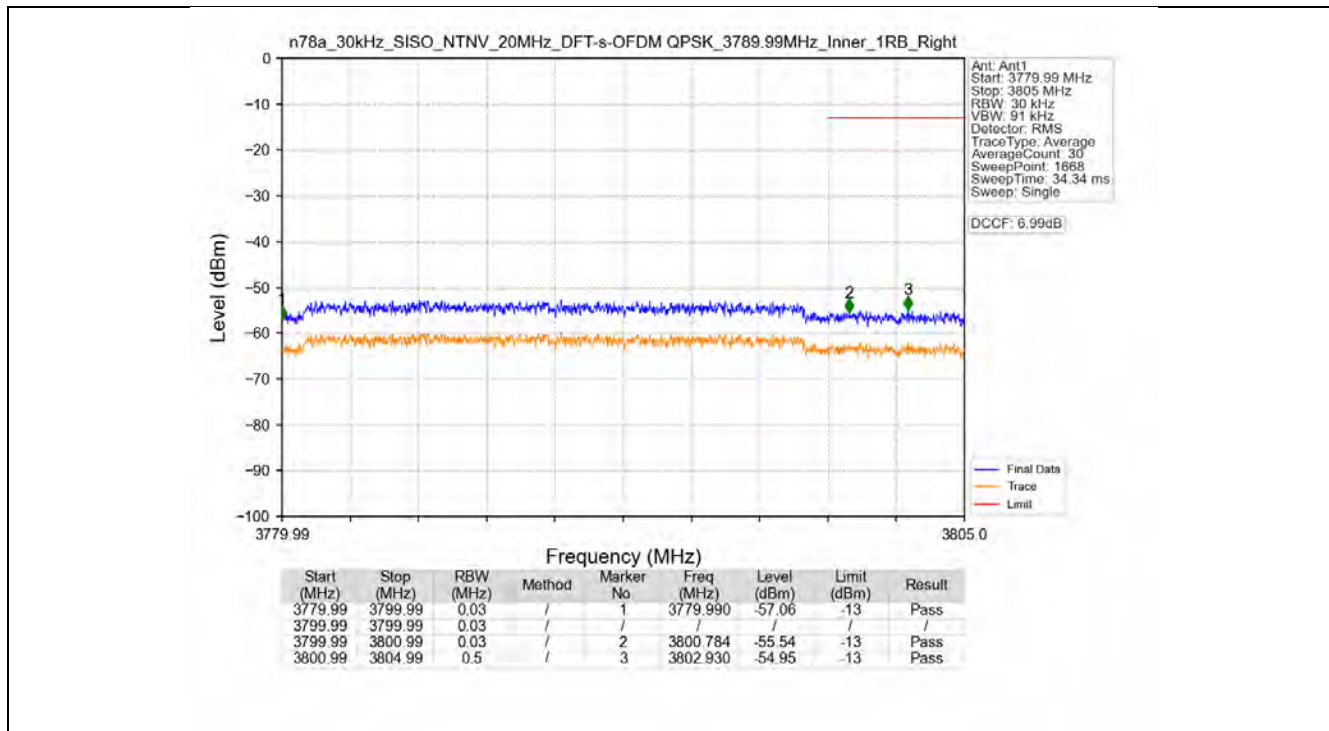
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 612 of 1458



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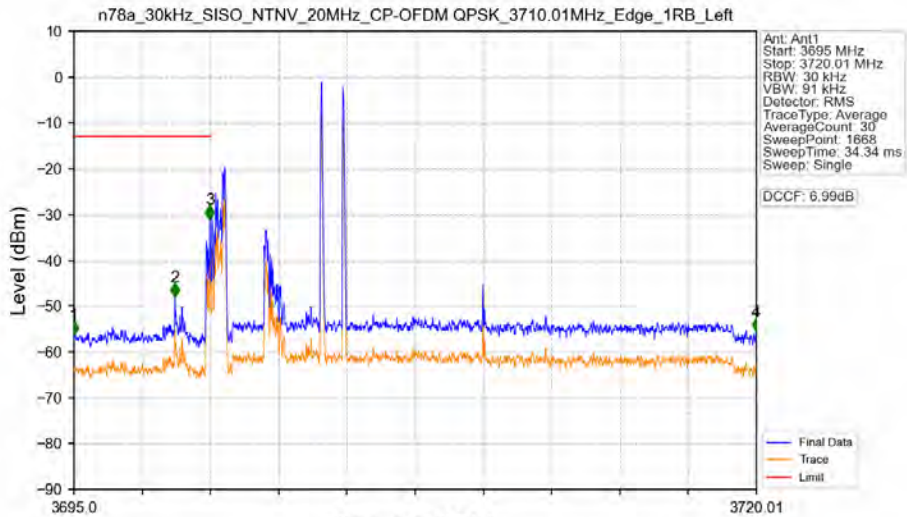
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Report No.: SZCR240100038409

Rev.: 01

Page: 613 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Edge\_1RB\_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-56.39	-13	Pass
3695.01	3699.01	0.5	/	2	3698.706	-48.06	-13	Pass
3699.01	3700.01	0.03	/	3	3699.981	-31.05	-13	Pass
3700.01	3720.01	0.03	/	4	3720.010	-55.63	-13	Pass

n78a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Edge\_1RB\_Left



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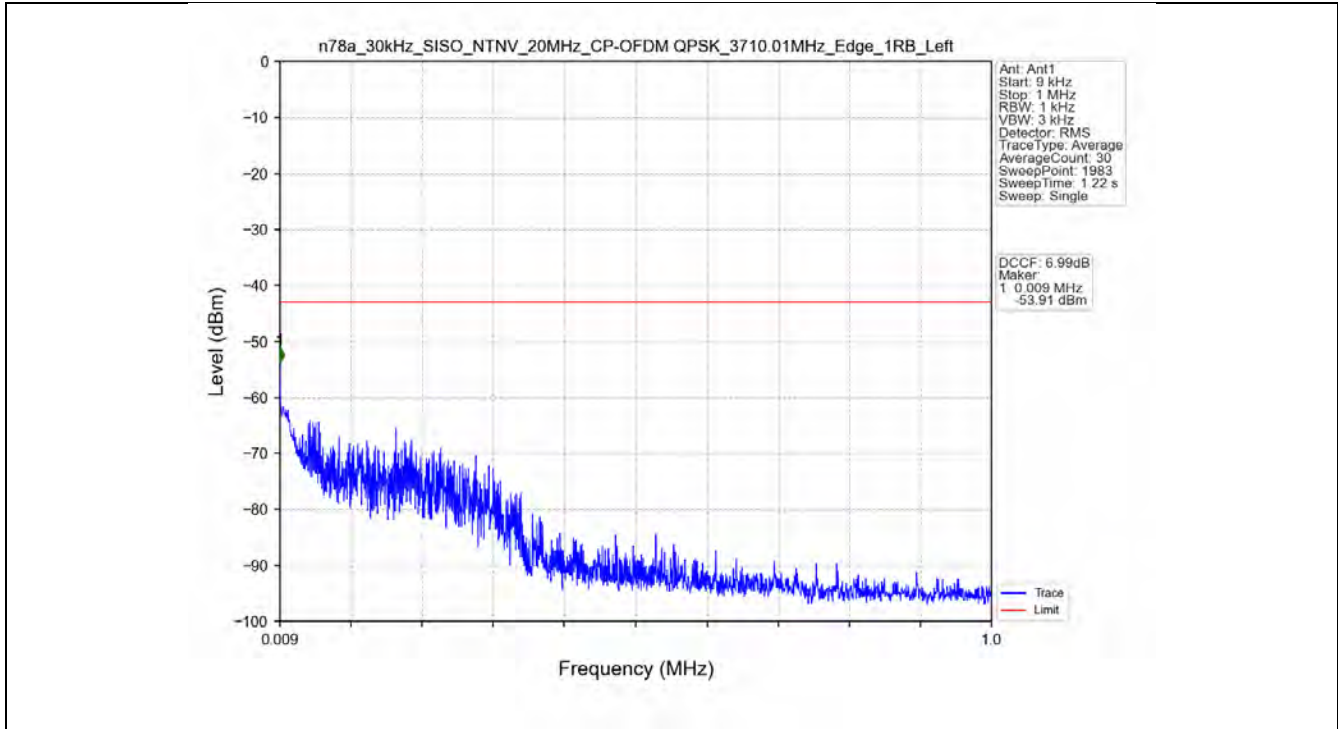


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Rev.: 01

Page: 614 of 1458



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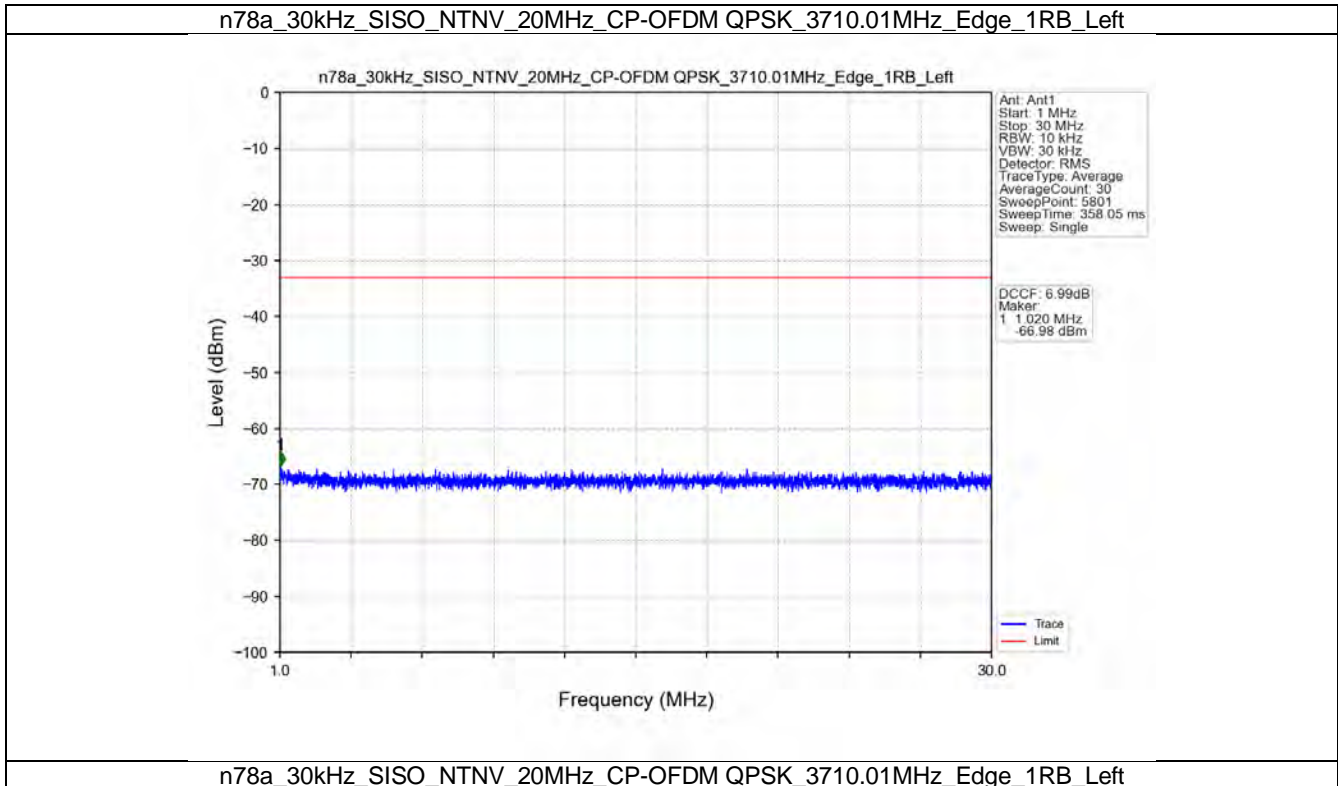


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Page: 615 of 1458



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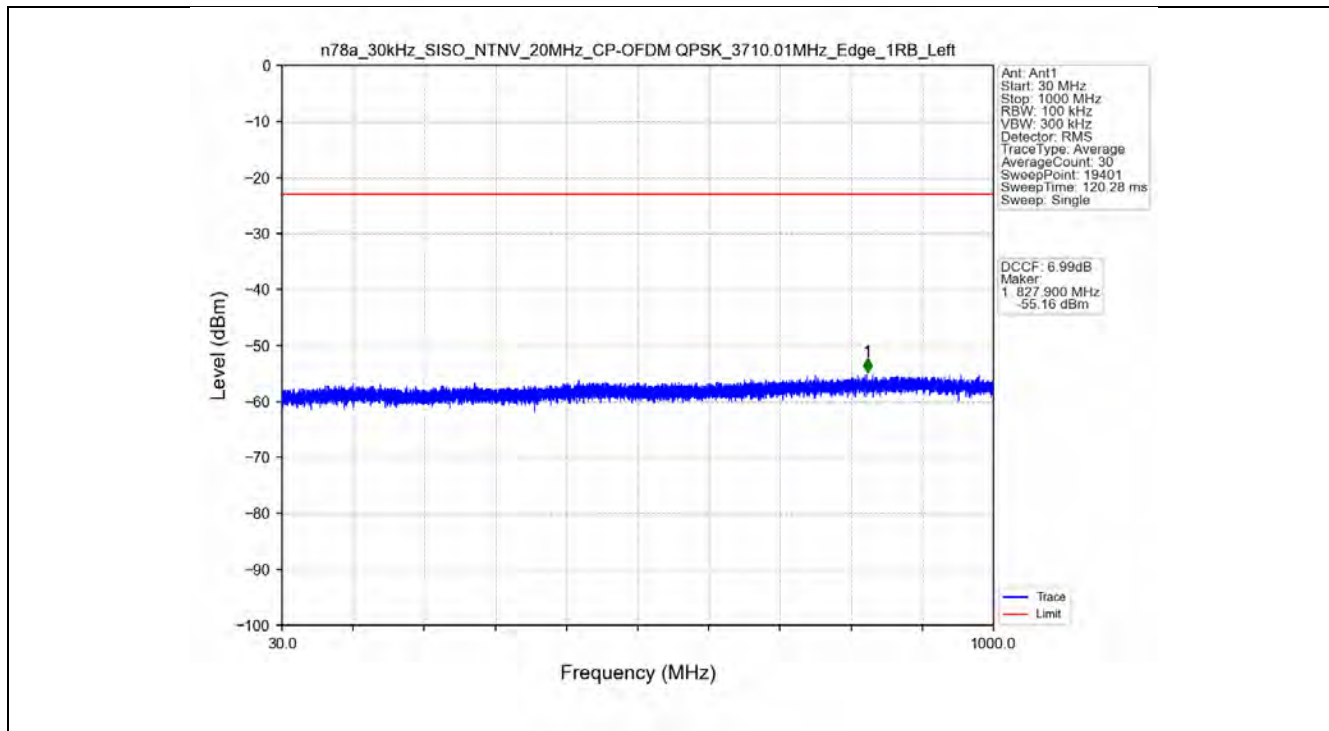
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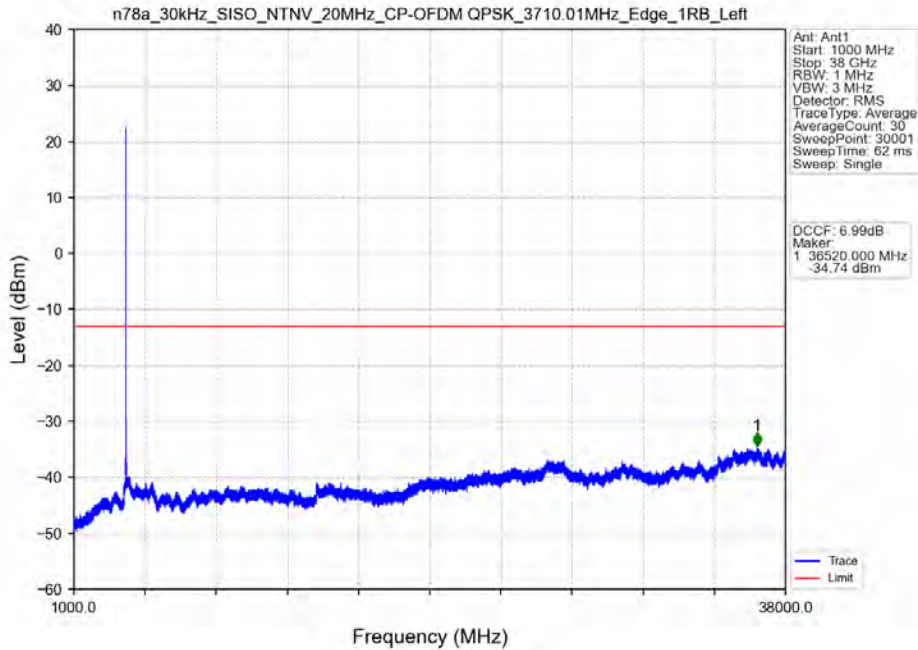
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Rev.: 01

Page: 617 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Edge\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Outer\_Full



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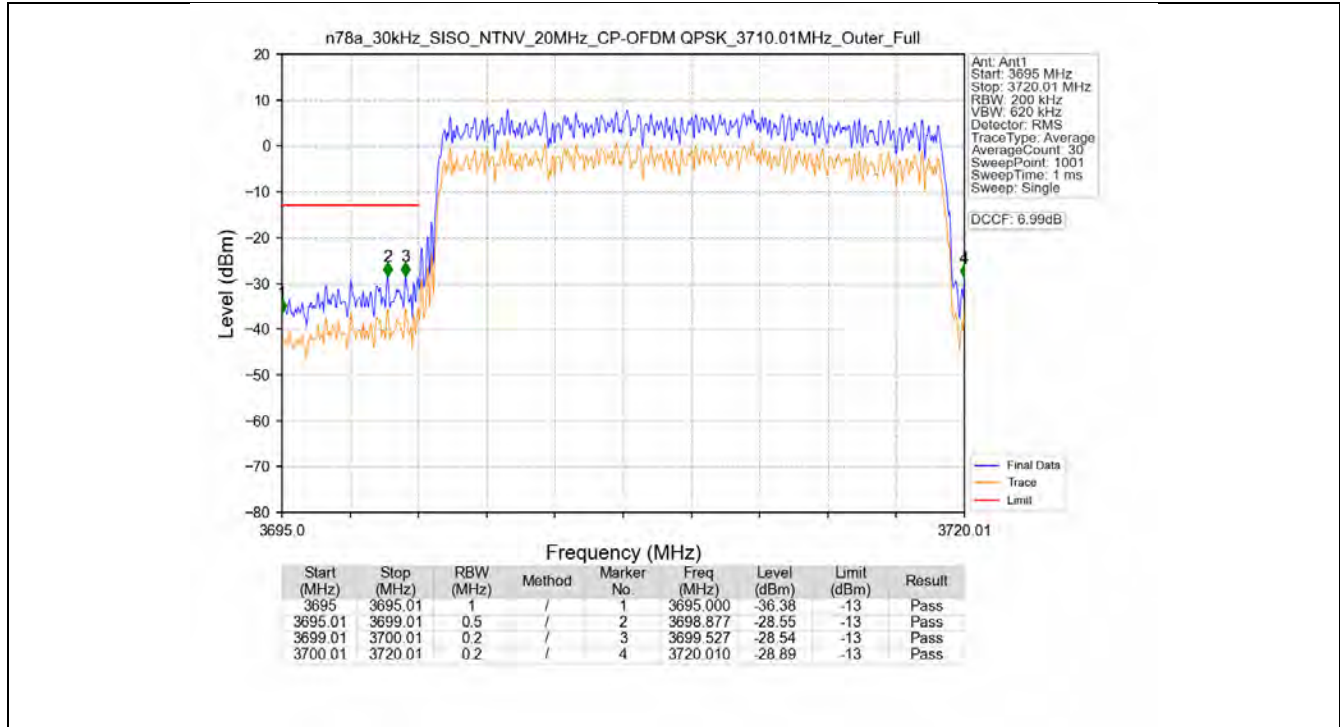


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Rev.: 01

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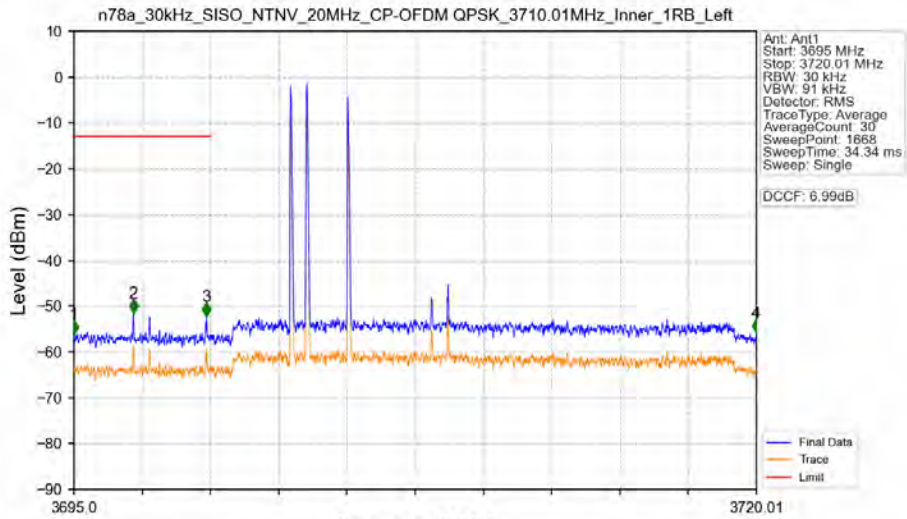
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Report No.: SZCR240100038409

Rev.: 01

Page: 619 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Inner\_1RB\_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-56.19	-13	Pass
3695.01	3699.01	0.5	/	2	3697.175	-51.62	-13	Pass
3699.01	3700.01	0.03	/	3	3699.861	-52.33	-13	Pass
3700.01	3720.01	0.03	/	4	3720.010	-55.78	-13	Pass

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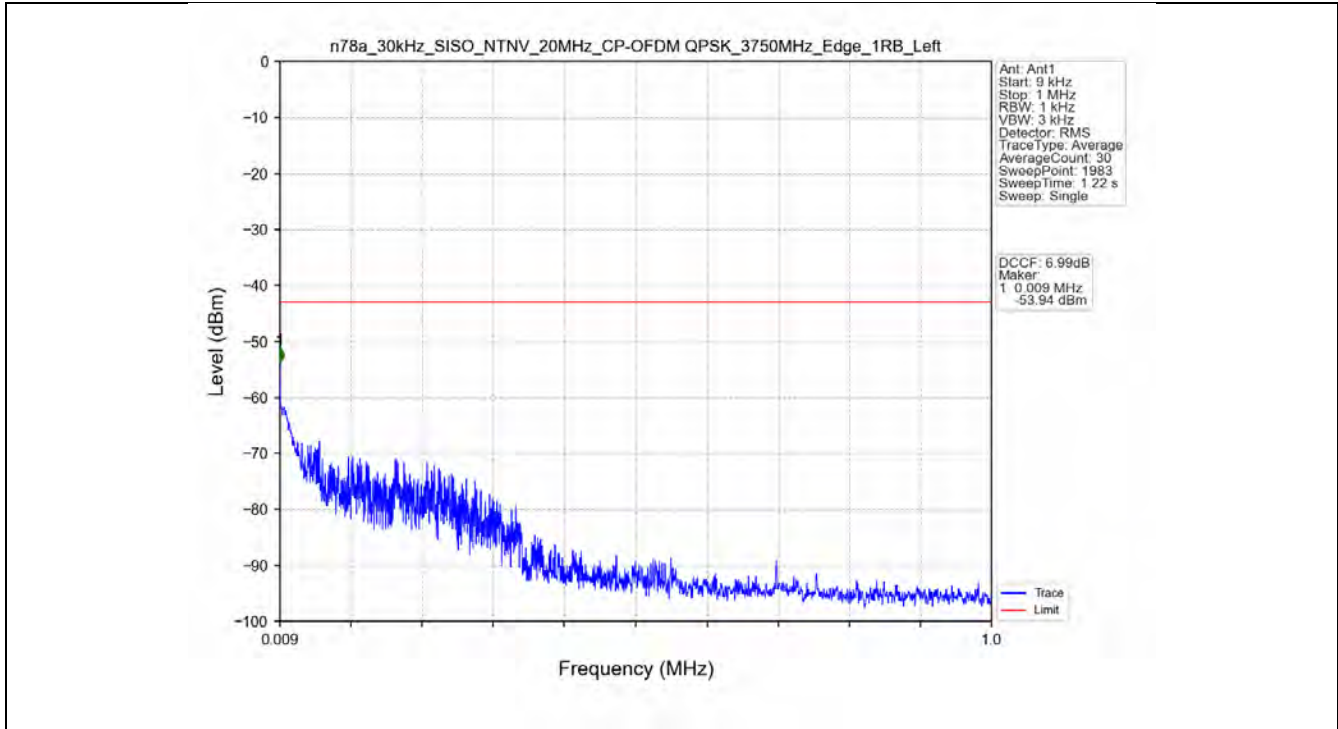


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Report No.: SZCR240100038409

Rev.: 01

Page: 620 of 1458



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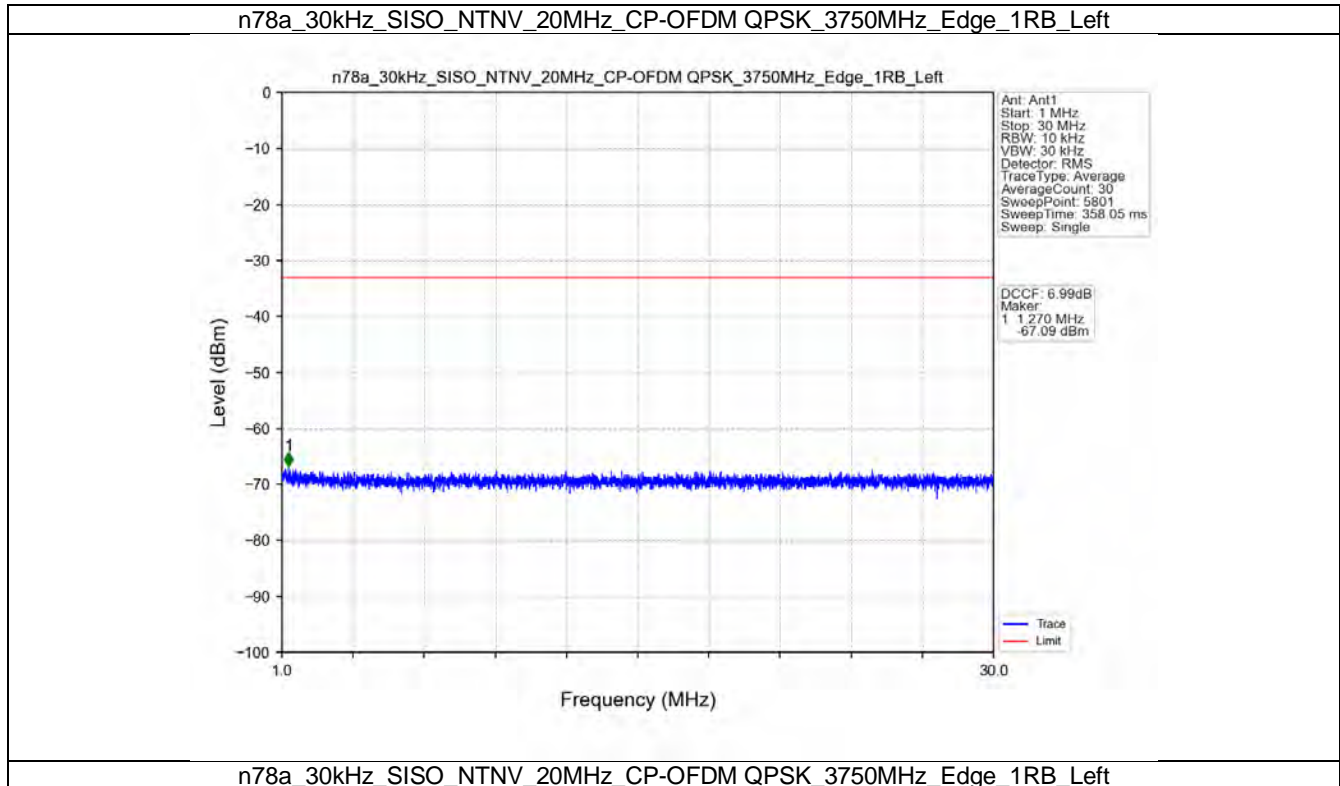


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Report No.: SZCR240100038409

Rev.: 01

Page: 621 of 1458



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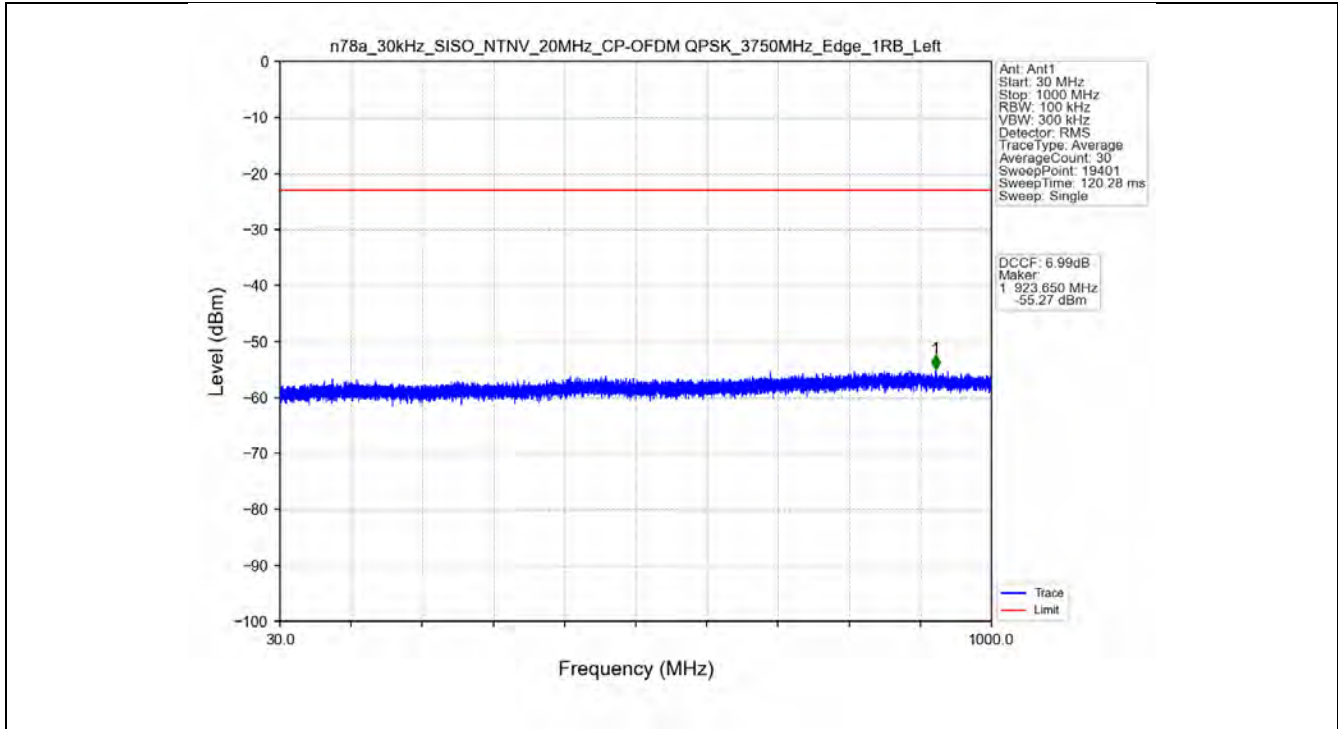


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Report No.: SZCR240100038409

Rev.: 01

Page: 622 of 1458



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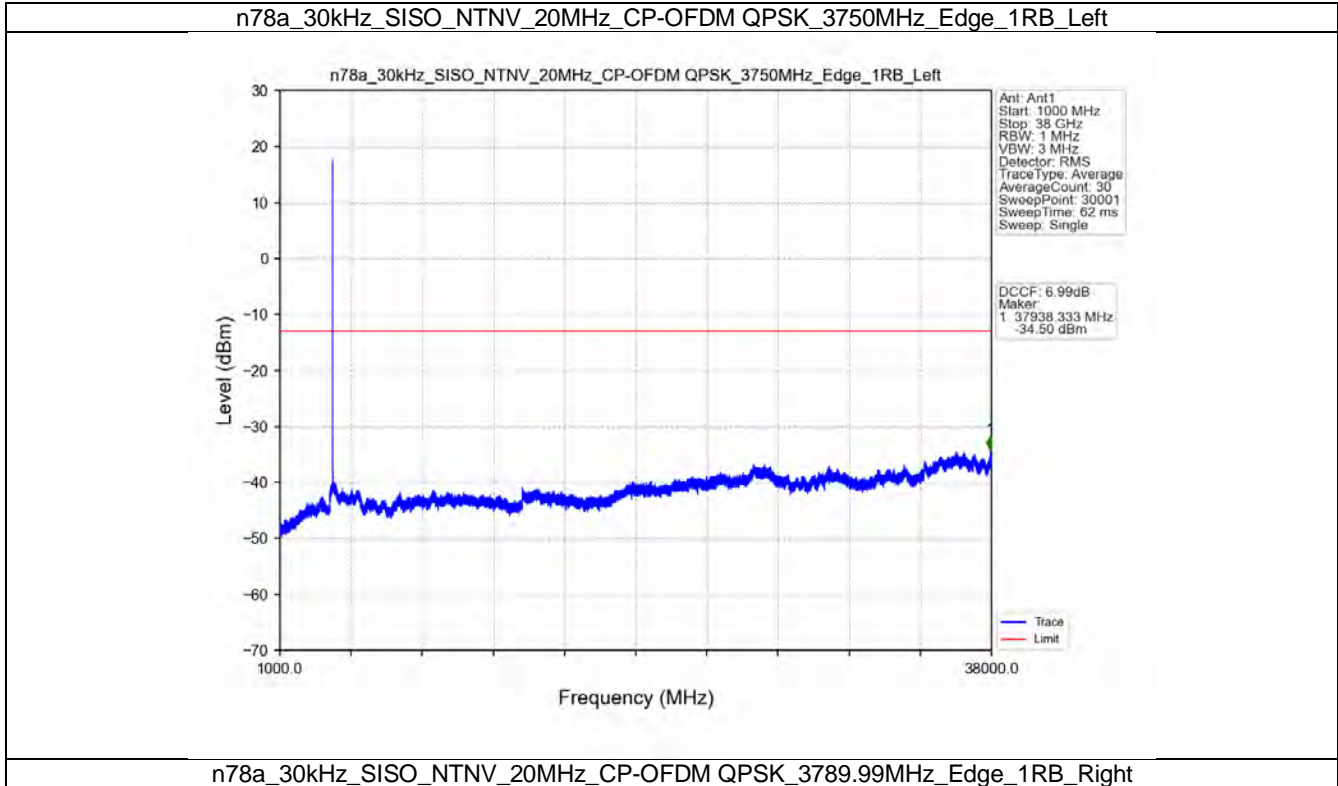


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Rev.: 01

Page: 623 of 1458



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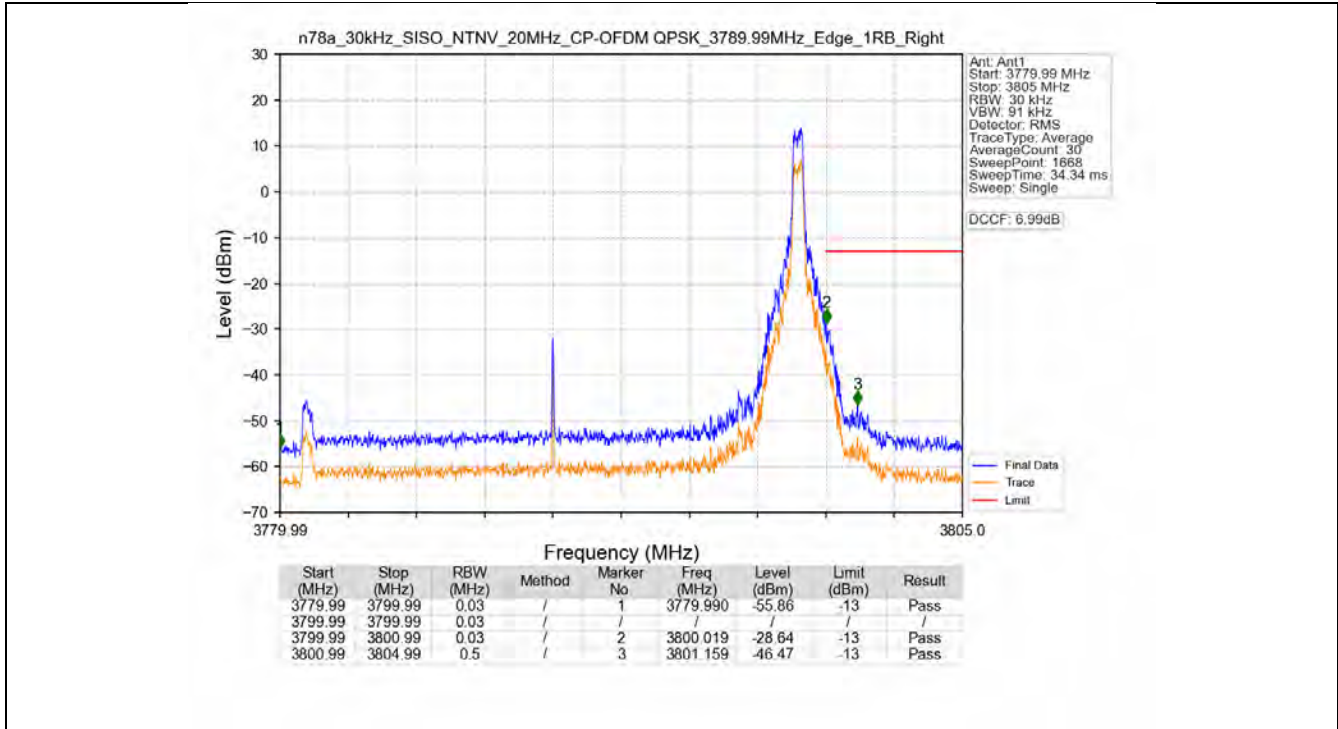


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Report No.: SZCR240100038409

Rev.: 01

Page: 624 of 1458



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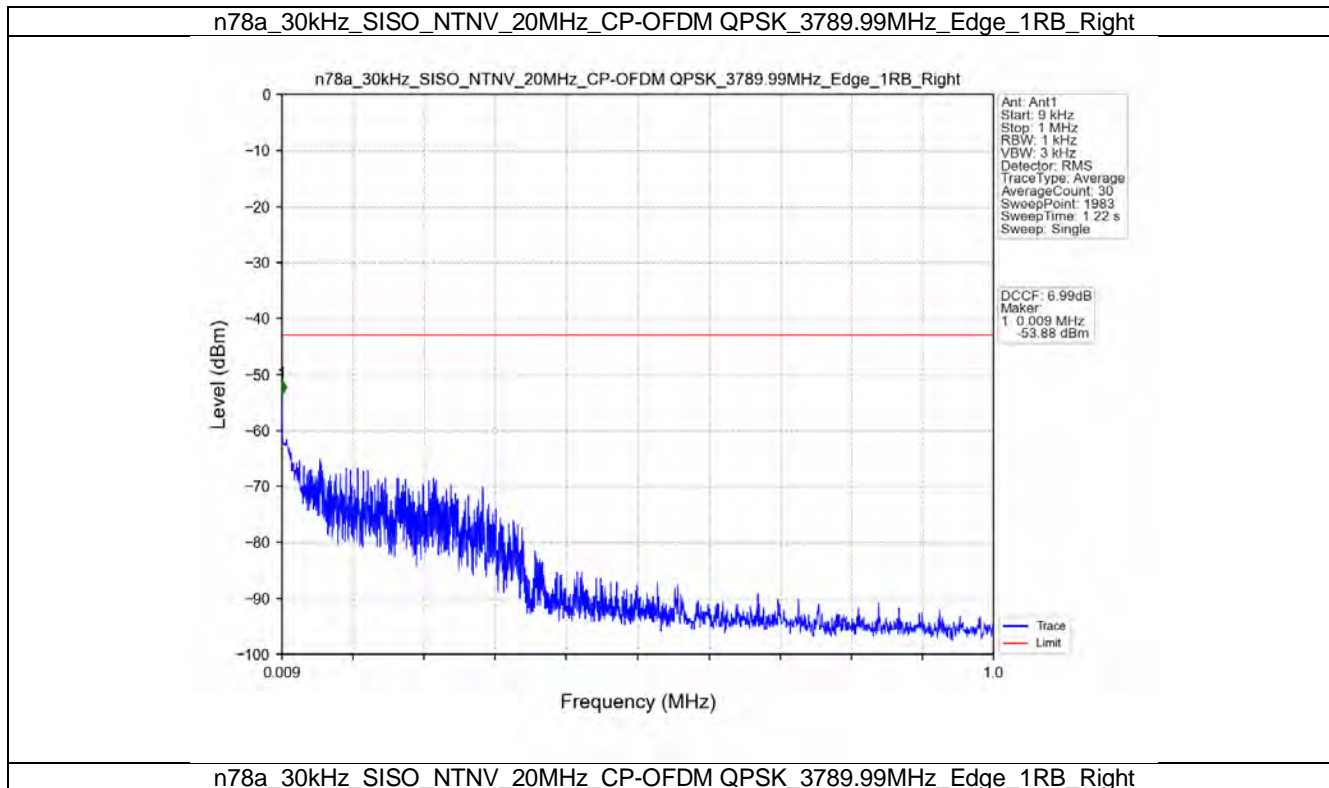
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 625 of 1458



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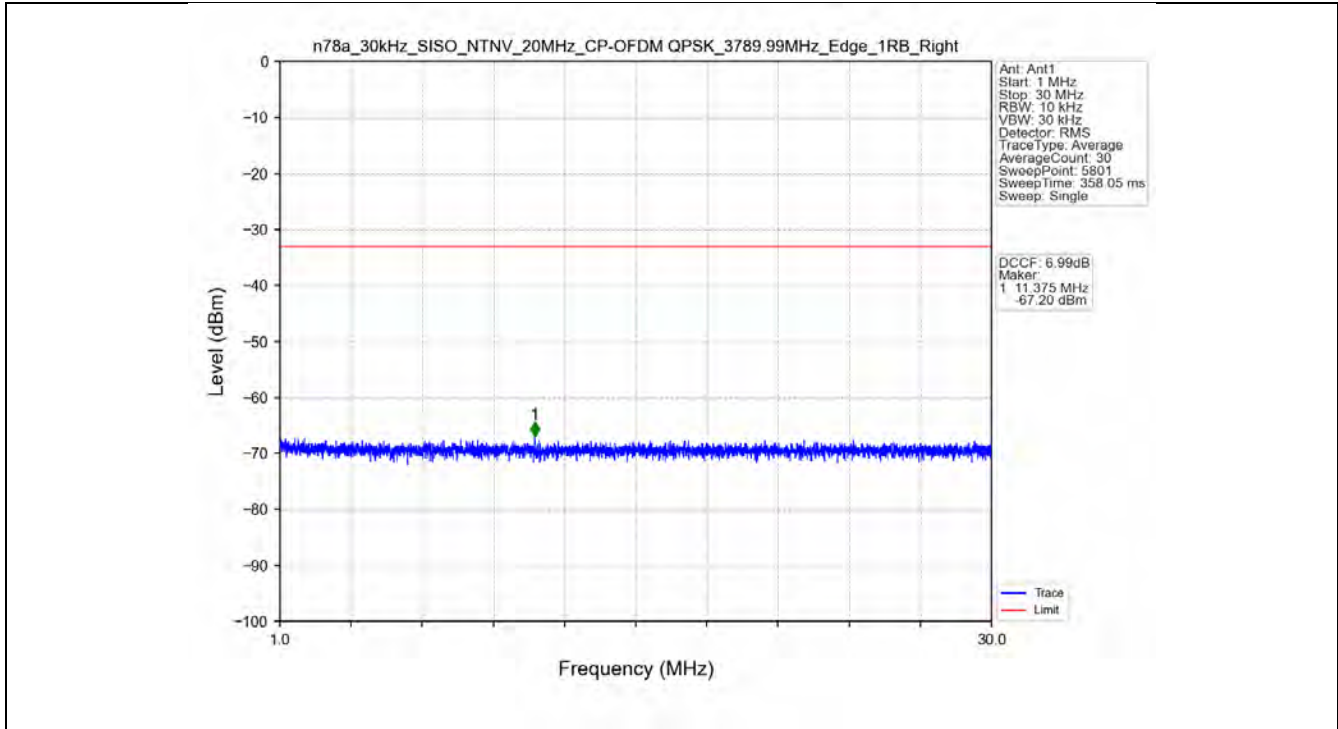


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Rev.: 01

Page: 626 of 1458



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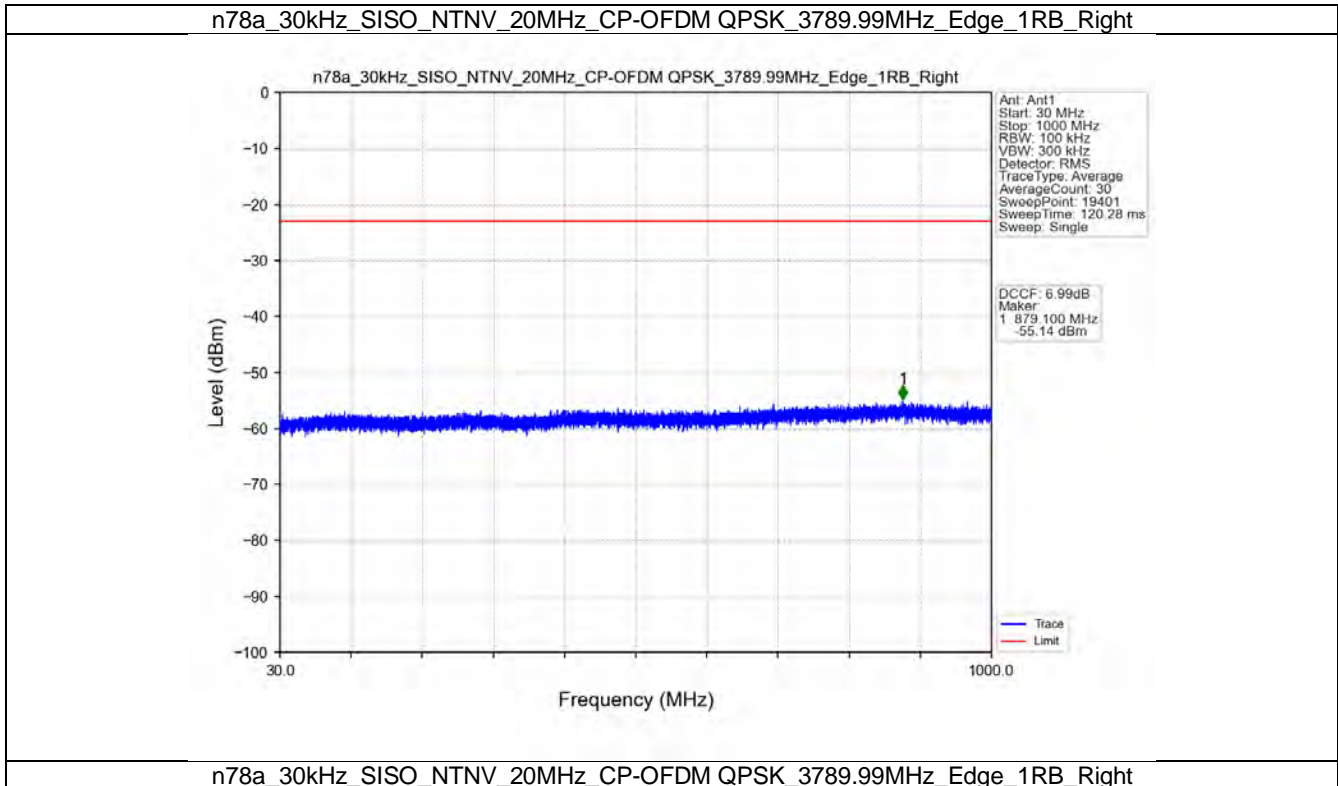


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Report No.: SZCR240100038409

Rev.: 01

Page: 627 of 1458



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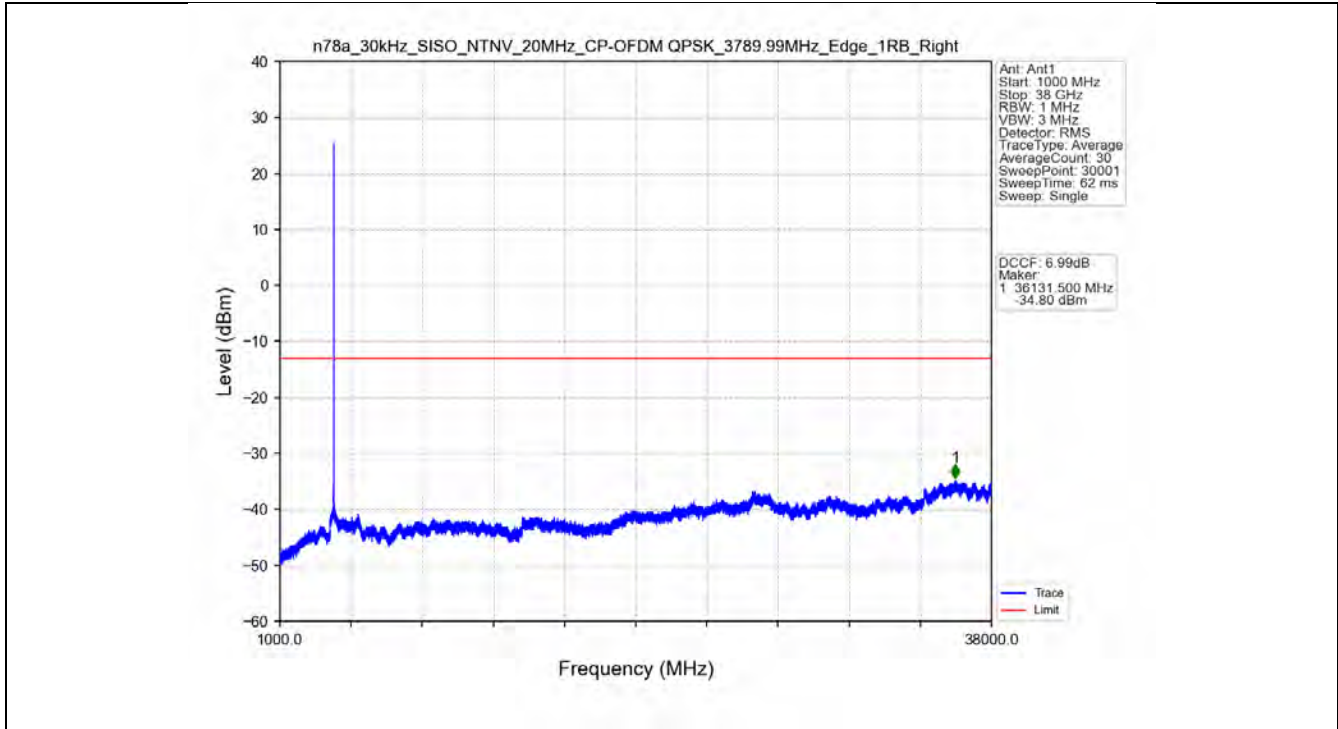


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Rev.: 01

Page: 628 of 1458



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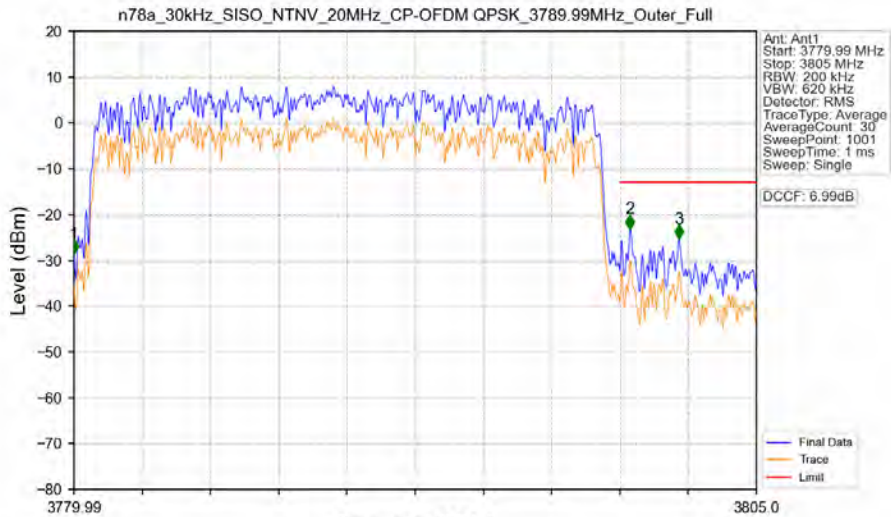
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Report No.: SZCR240100038409

Rev.: 01

Page: 629 of 1458

n78a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3789.99MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3779.99	3799.99	0.2	/	1	3779.990	-28.49	-13	Pass
3799.99	3799.99	0.2	/	/	/	/	/	/
3799.99	3800.99	0.2	/	2	3800.373	-23.13	-13	Pass
3800.99	3804.99	0.5	/	3	3802.174	-25.37	-13	Pass

n78a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3789.99MHz\_Inner\_1RB\_Right



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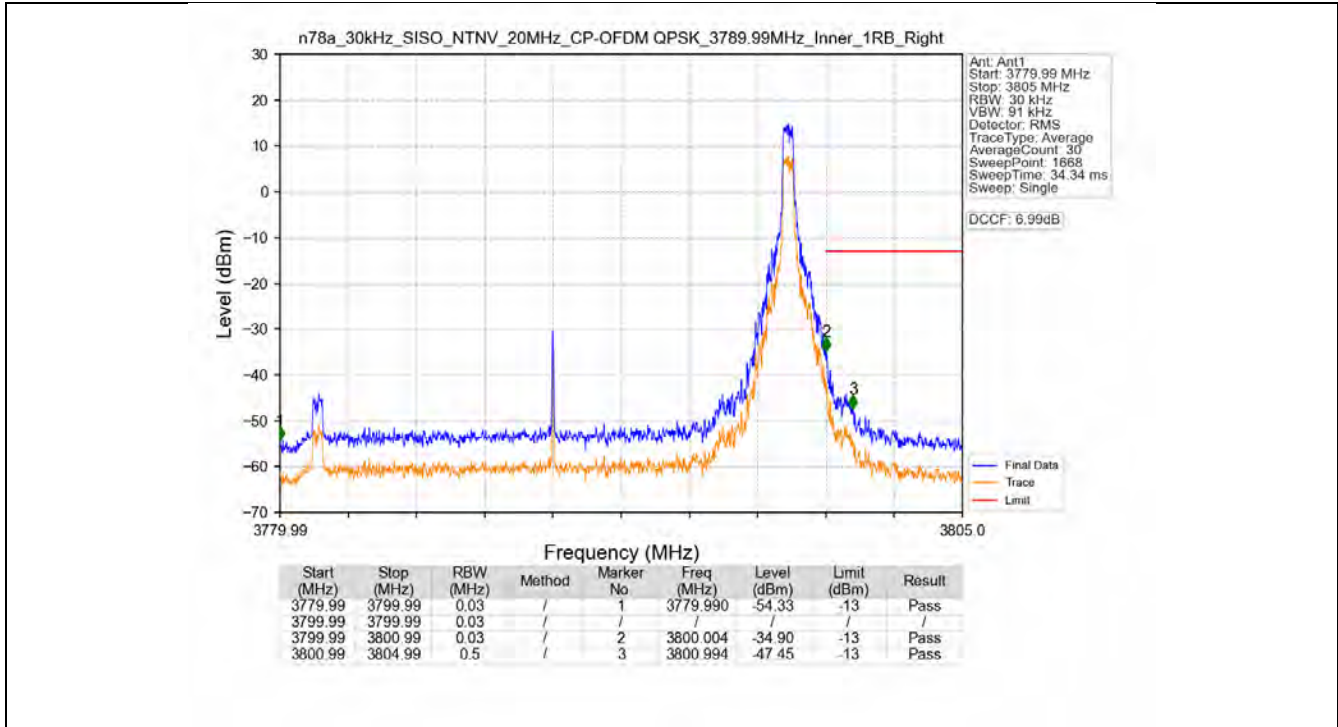


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Rev.: 01

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Report No.: SZCR240100038409

Rev.: 01

Page: 631 of 1458

## 5.2 30k\_SISO\_30MHz\_NTNV

### 5.2.1 Test Result

5G NR n78a SCS=30kHz SISO 30MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant4	Sum	
DFT-s-OFDM PI/2 BPSK	3715.02	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3784.98	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	3715.02	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3784.98	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
CP-OFDM QPSK	3715.02	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3784.98	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
3784.98	Inner_1RB_Right	Refer To Test Graph			Pass	



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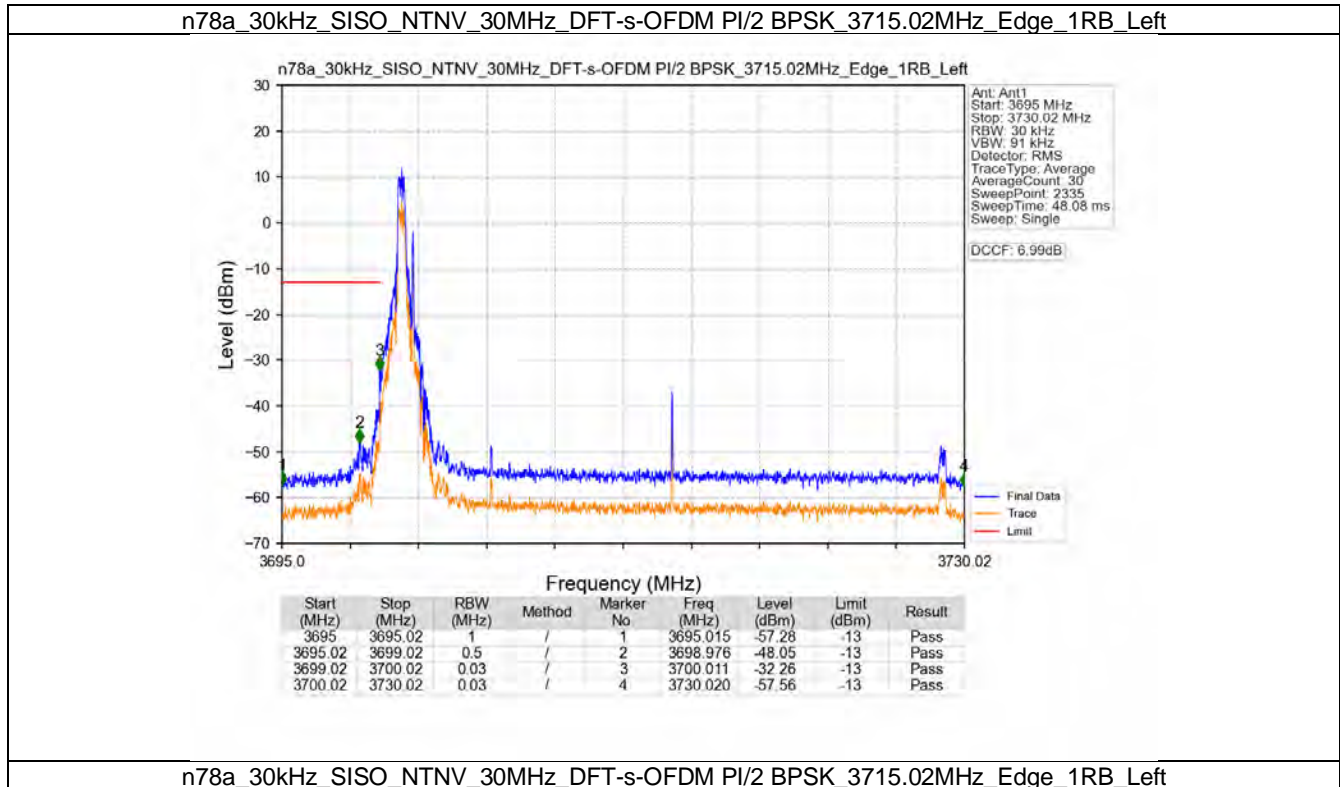
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5.2.2 Test Graph



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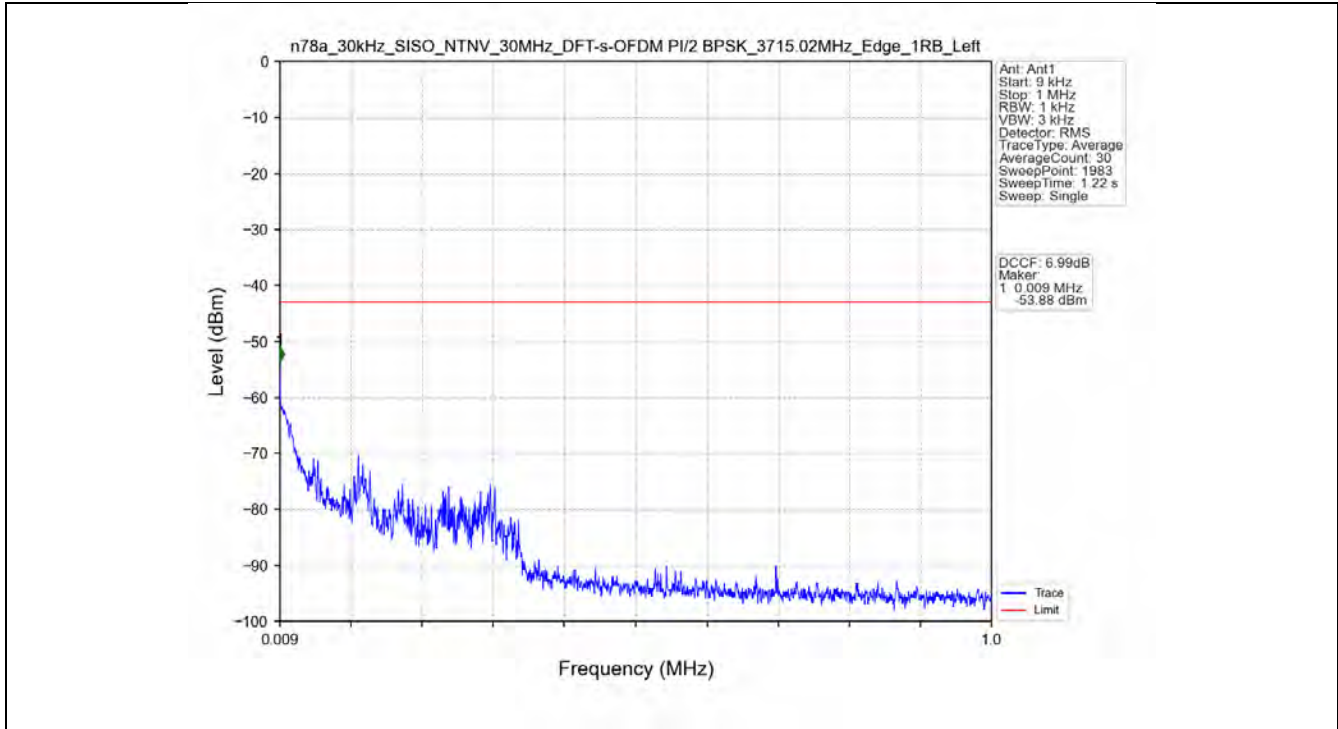


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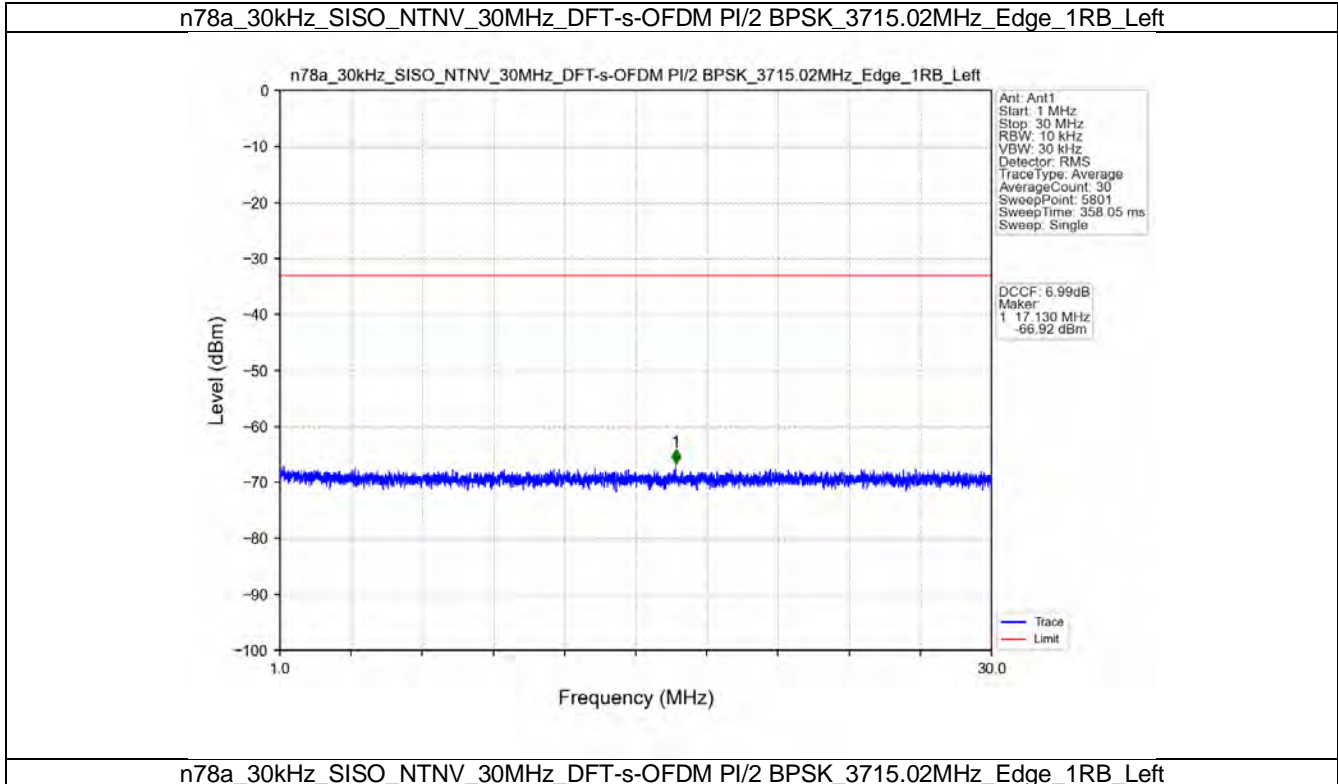


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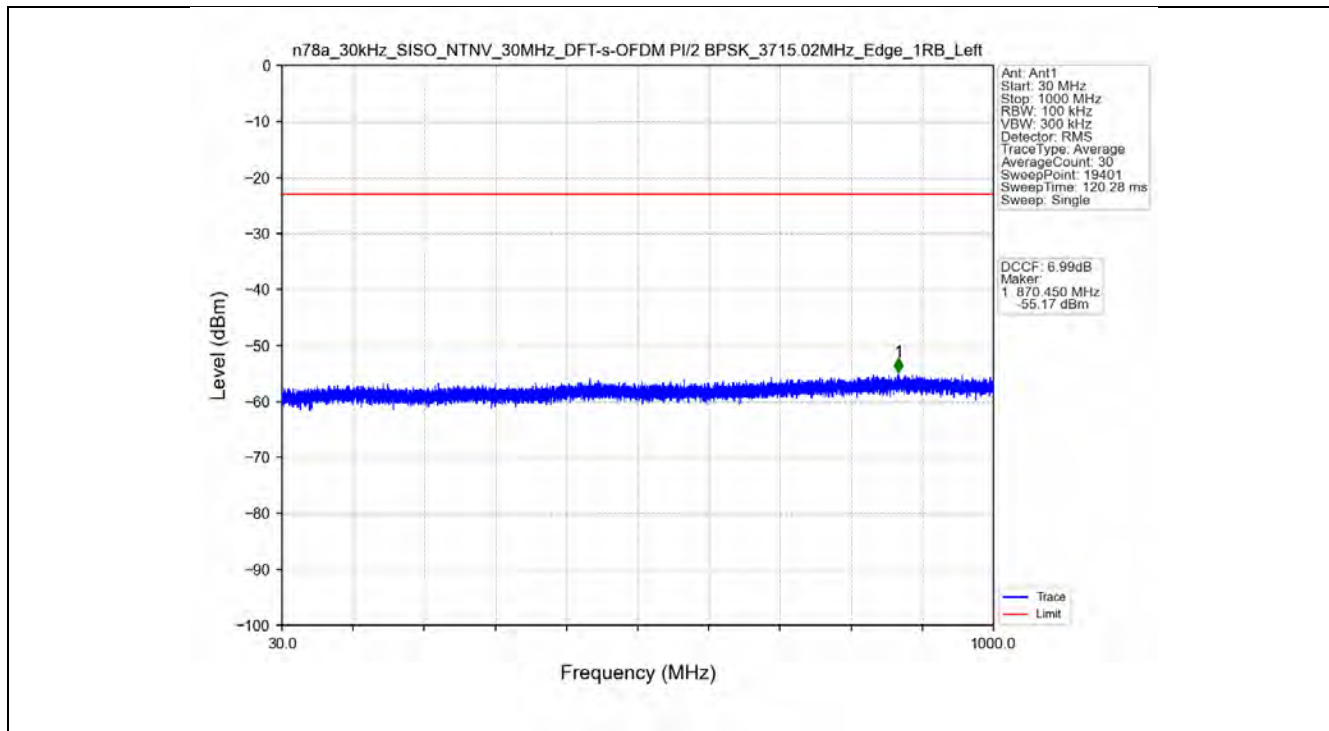
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Report No.: SZCR240100038409  
 Rev.: 01  
 Page: 635 of 1458



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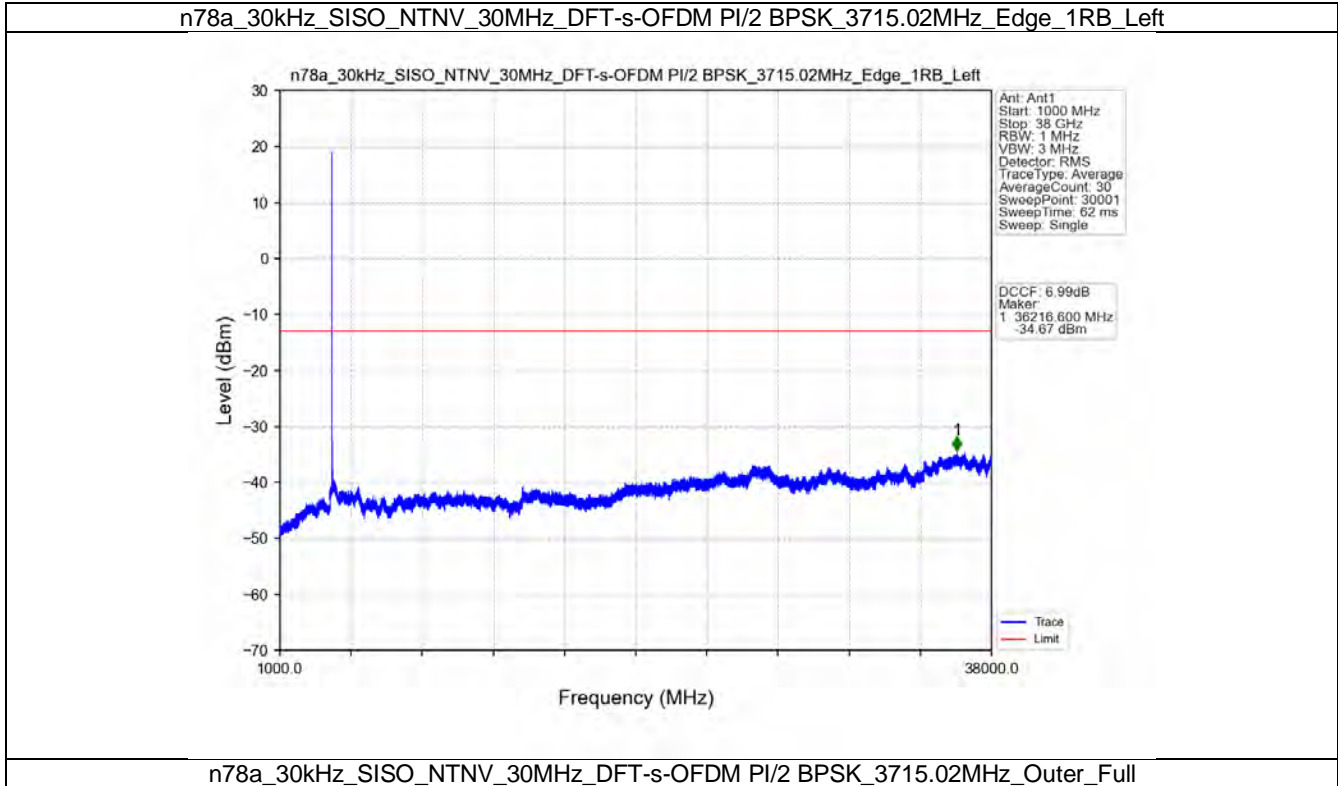


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Report No.: SZCR240100038409

Rev.: 01

Page: 636 of 1458



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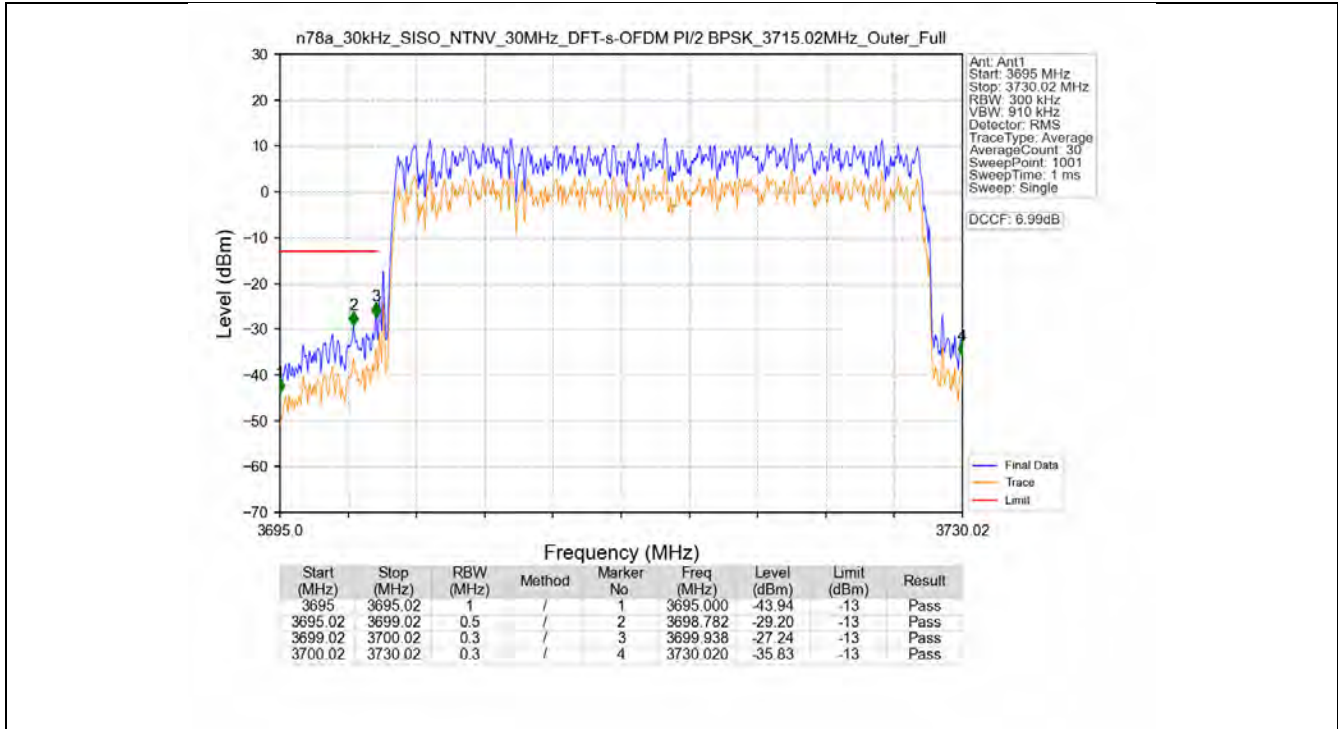


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Report No.: SZCR240100038409

Rev.: 01

Page: 637 of 1458



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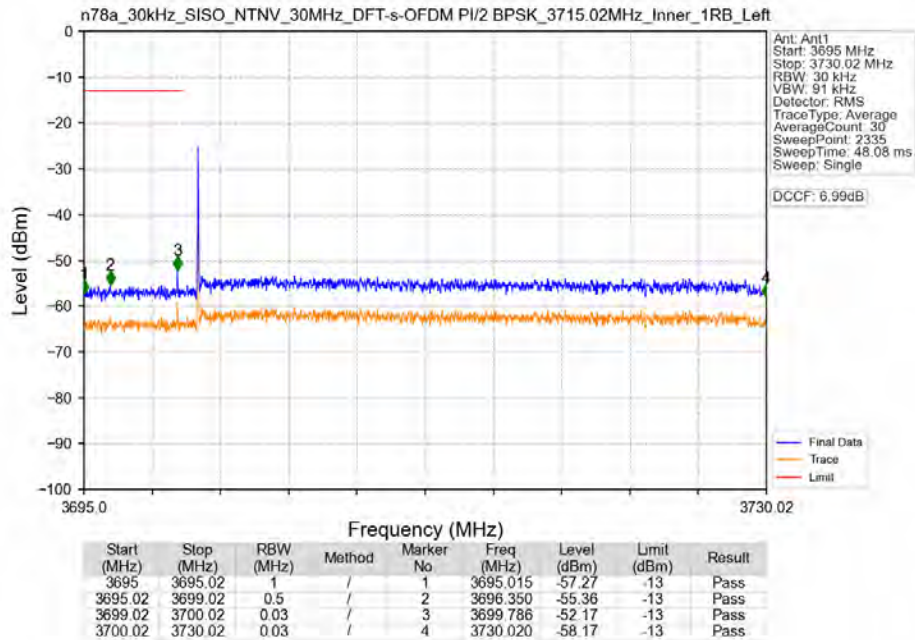
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Report No.: SZCR240100038409

Rev.: 01

Page: 638 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3715.02MHz\_Inner\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3750MHz\_Edge\_1RB\_Left



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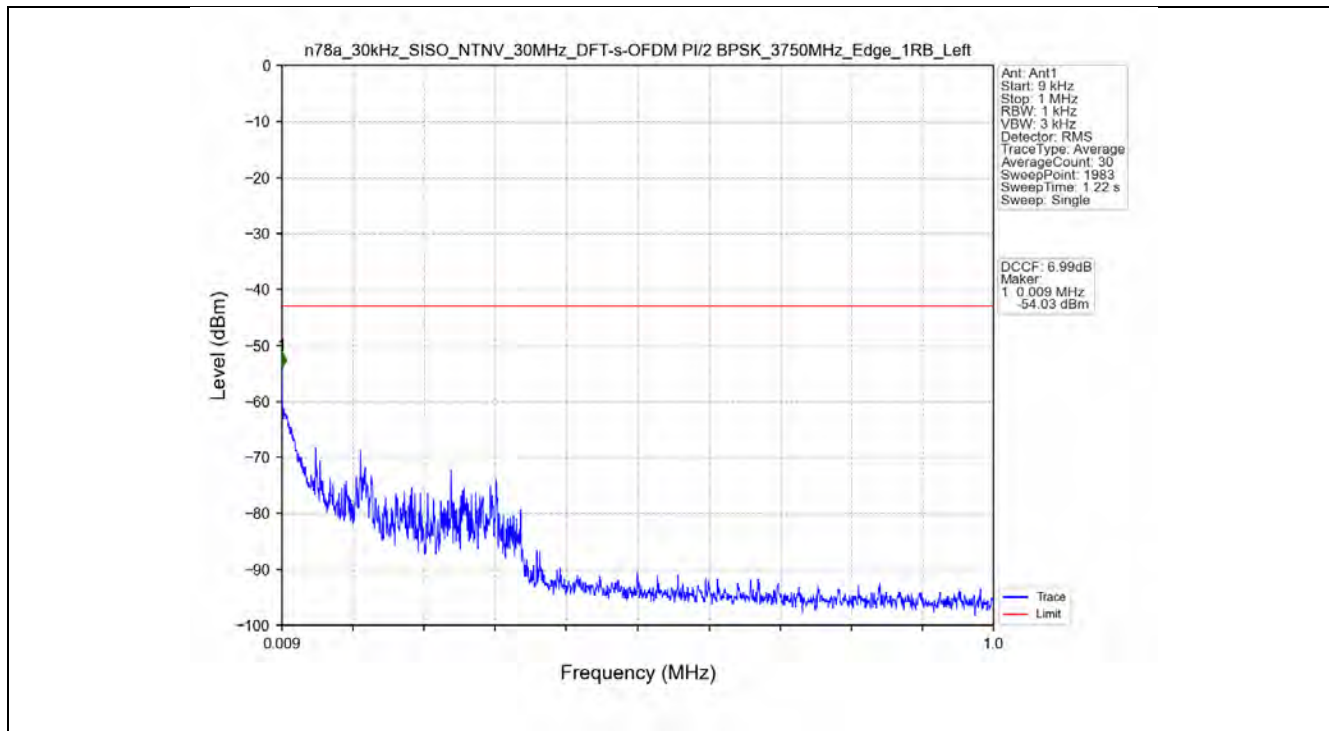
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 639 of 1458



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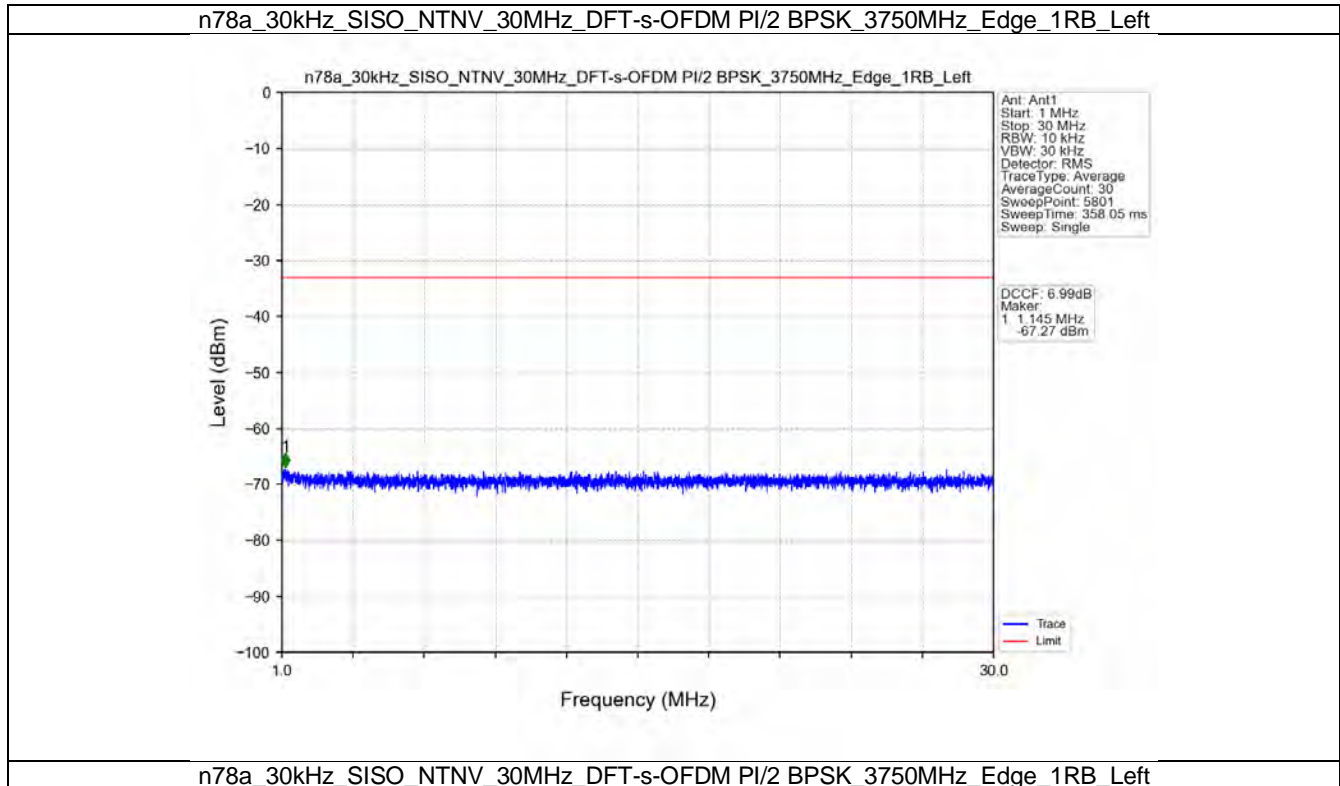


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Rev.: 01

Page: 640 of 1458



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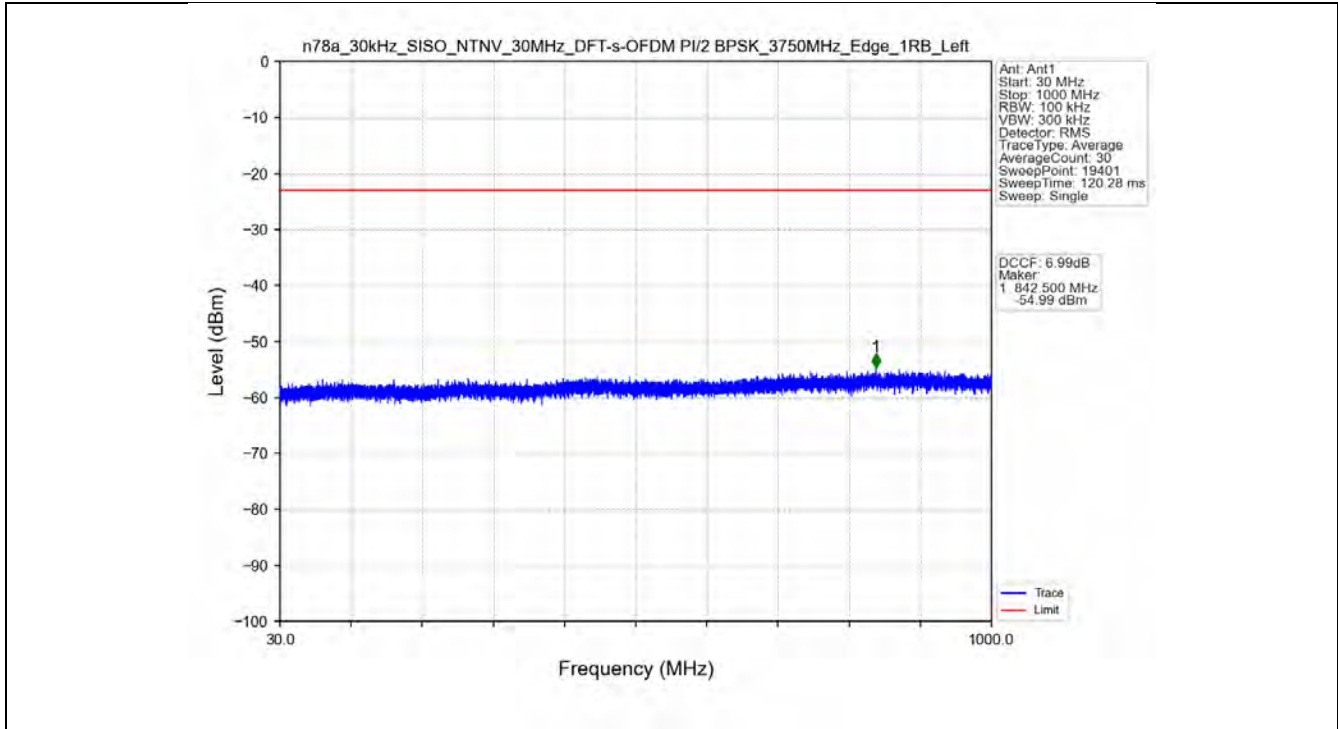


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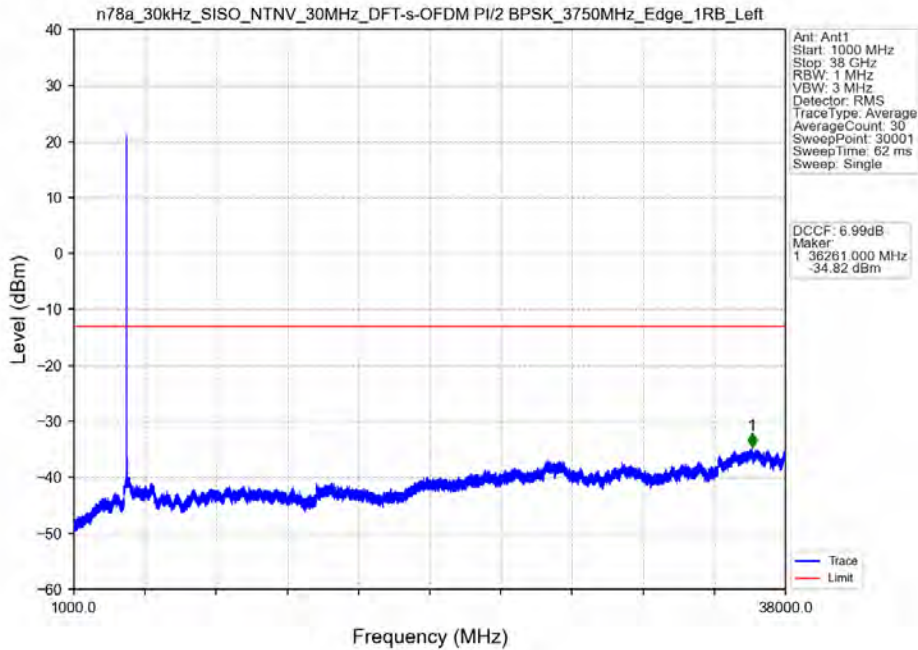
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Report No.: SZCR240100038409

Rev.: 01

Page: 642 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3750MHz\_Edge\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3784.98MHz\_Edge\_1RB\_Right



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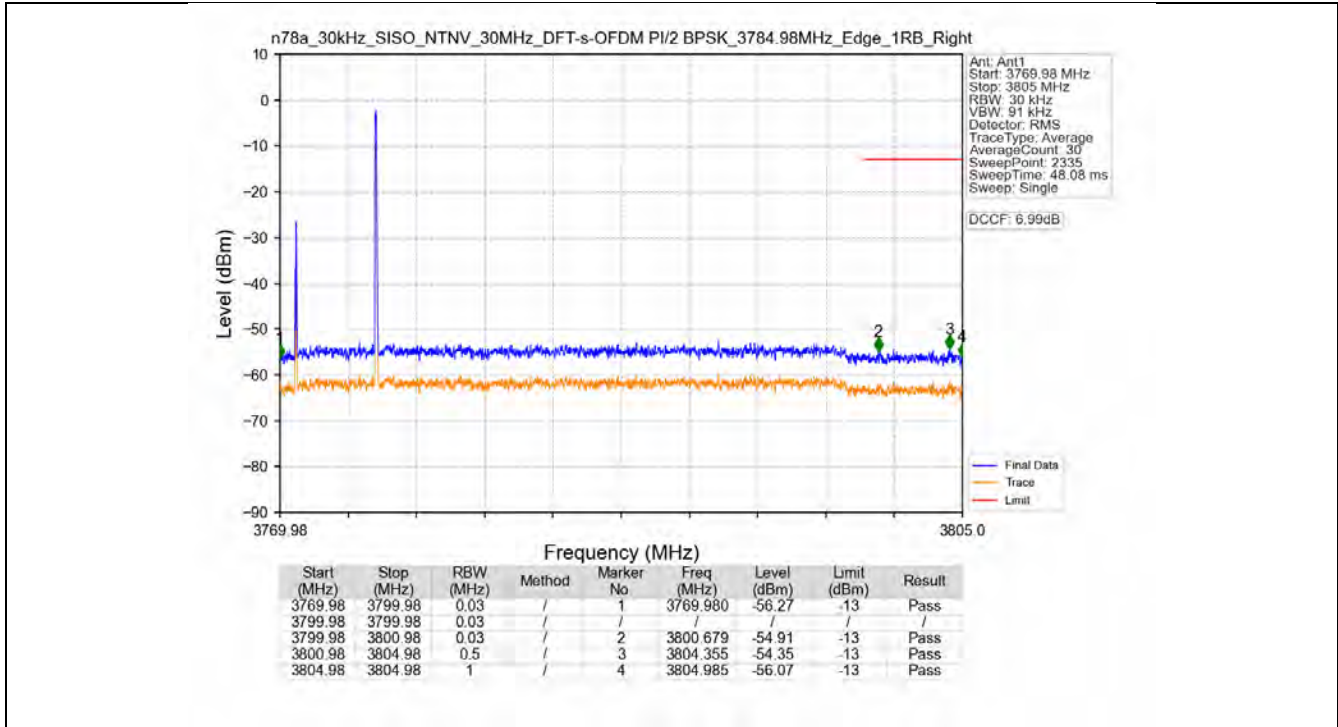


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Rev.: 01

Page: 643 of 1458



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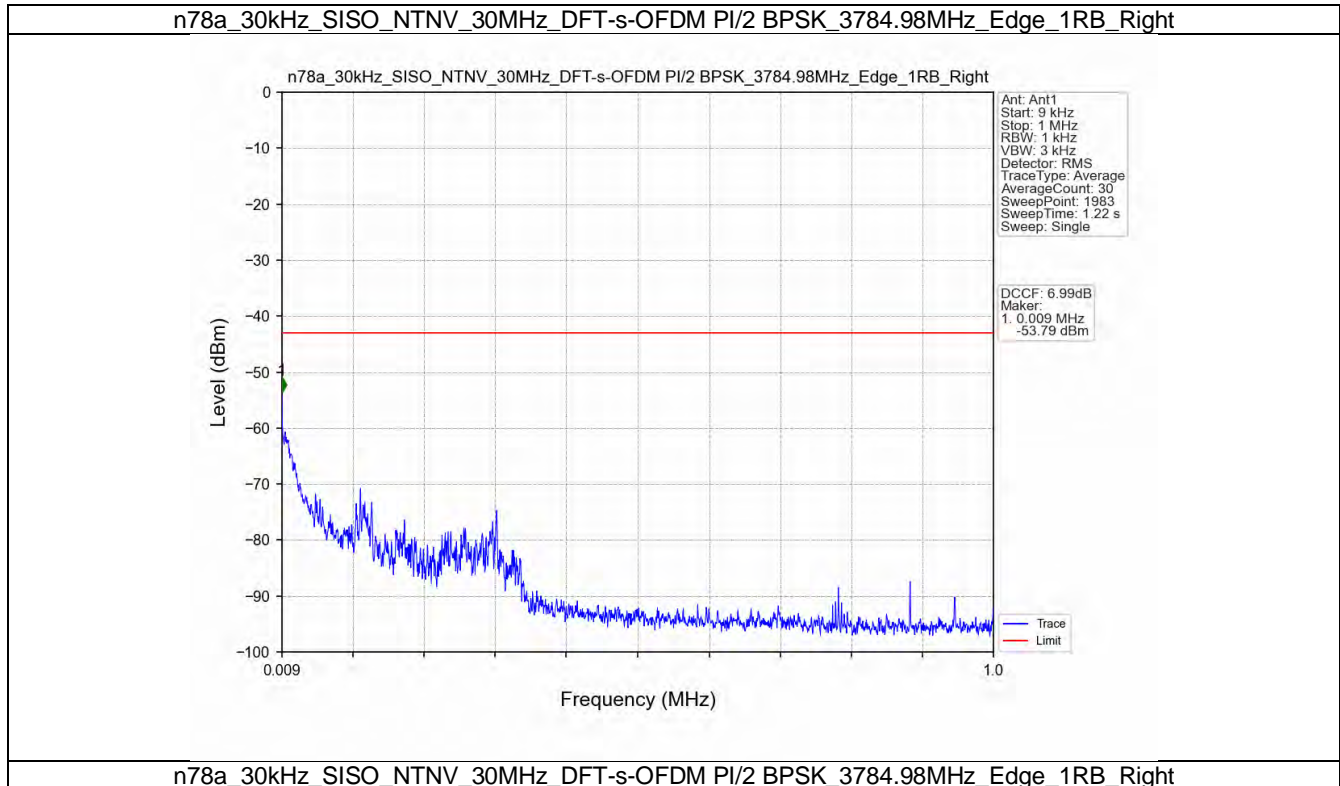


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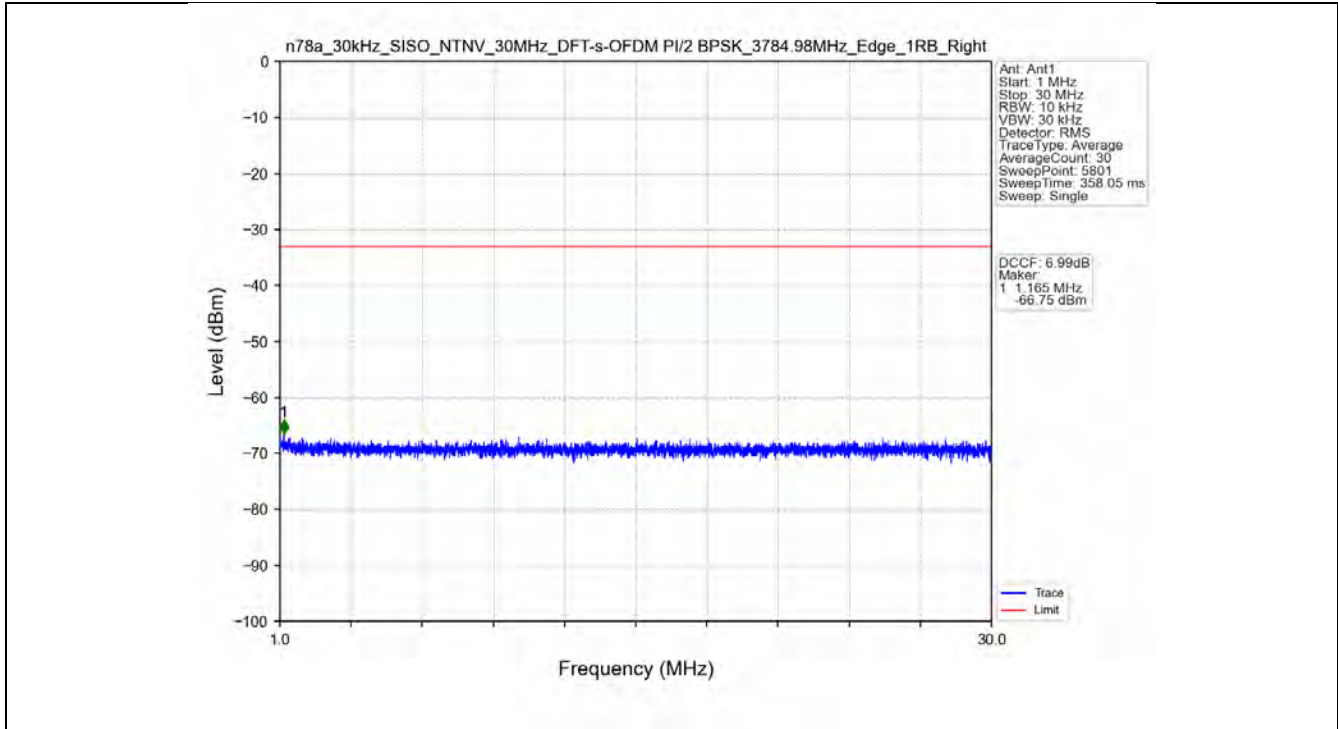


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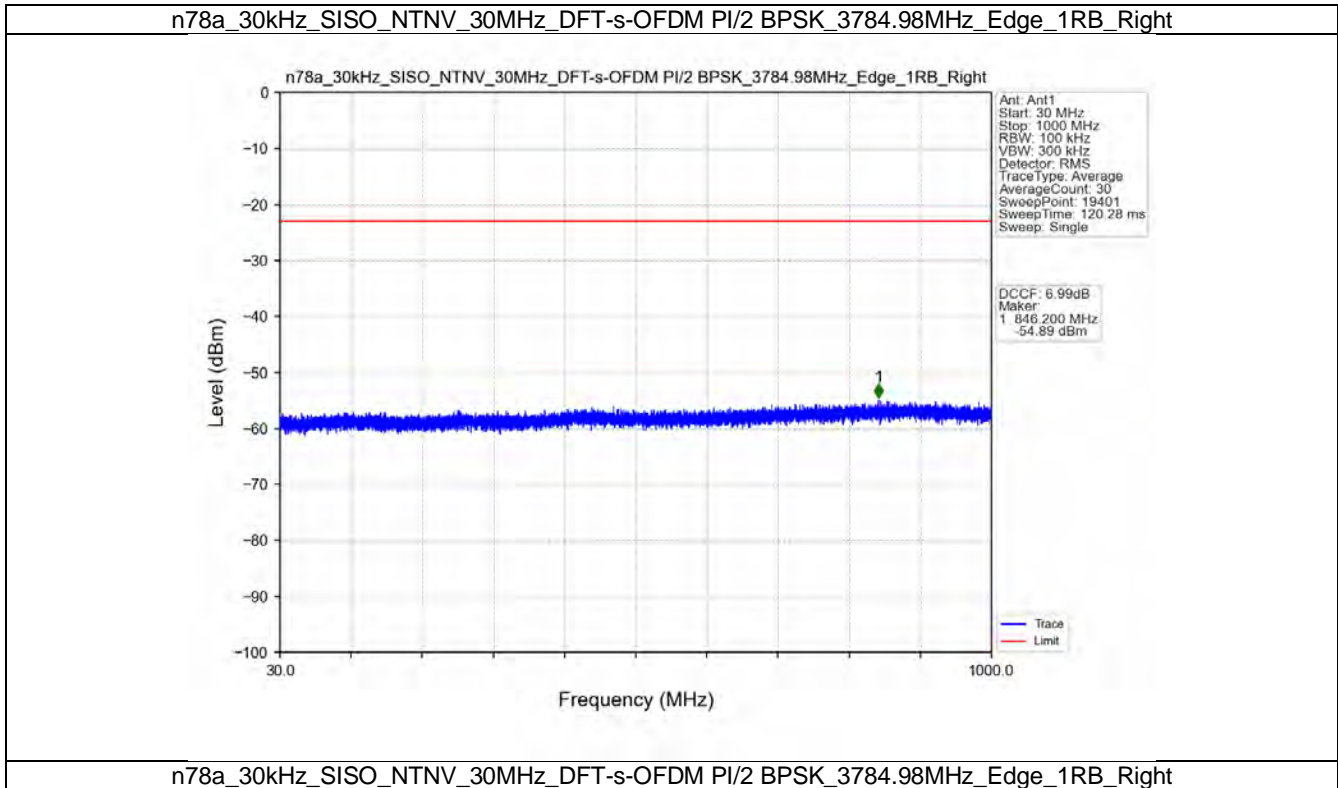


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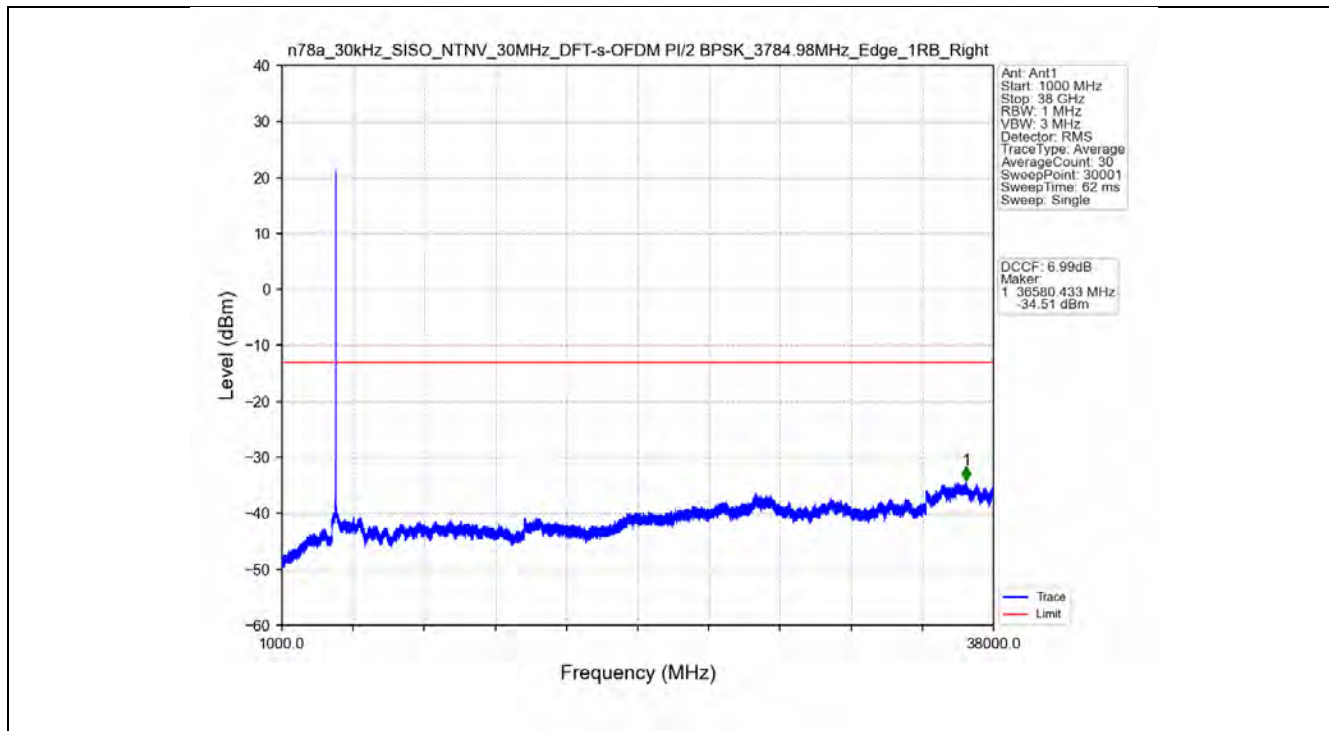
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Page: 647 of 1458



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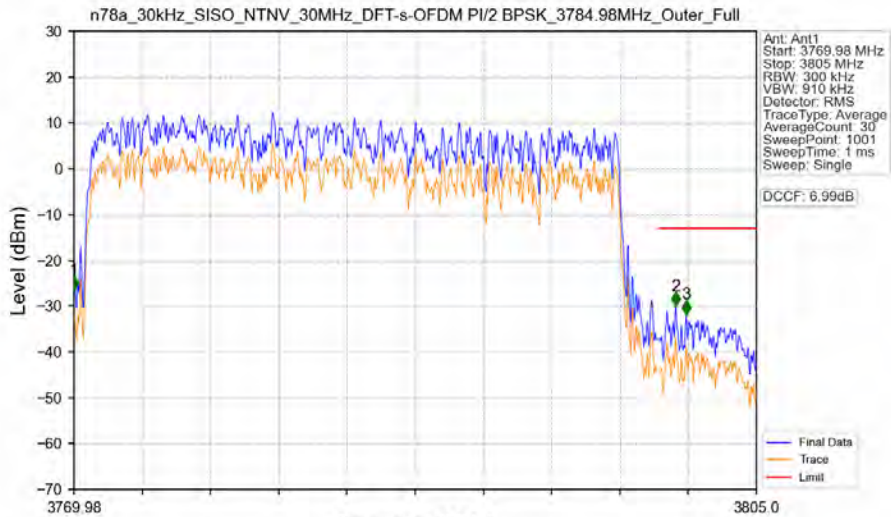
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Report No.: SZCR240100038409

Rev.: 01

Page: 648 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3784.98MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3769.98	3799.98	0.3	/	1	3769.980	-26.46	-13	Pass
3799.98	3799.98	0.3	/	/	/	/	/	/
3799.98	3800.98	0.3	/	2	3800.868	-29.93	-13	Pass
3800.98	3804.98	0.5	/	3	3801.393	-31.83	-13	Pass

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3784.98MHz\_Inner\_1RB\_Right



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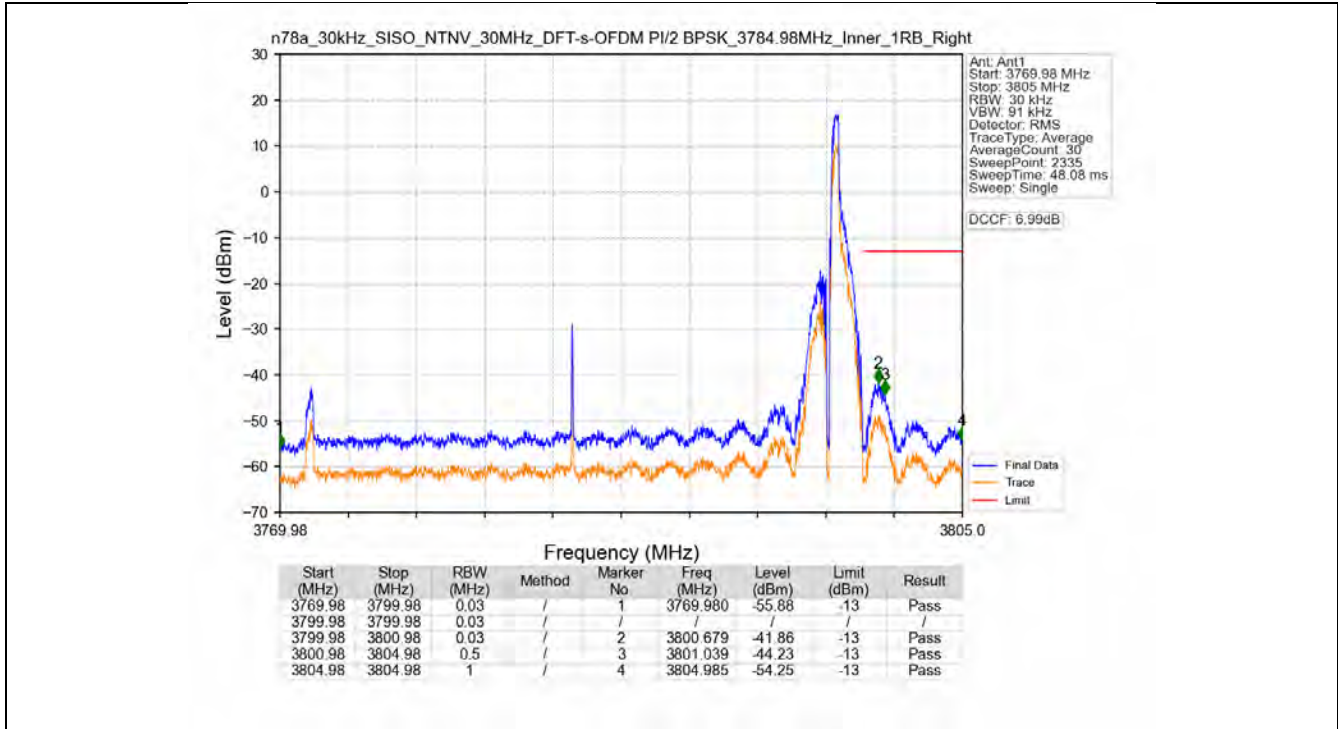


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Report No.: SZCR240100038409

Rev.: 01

Page: 649 of 1458



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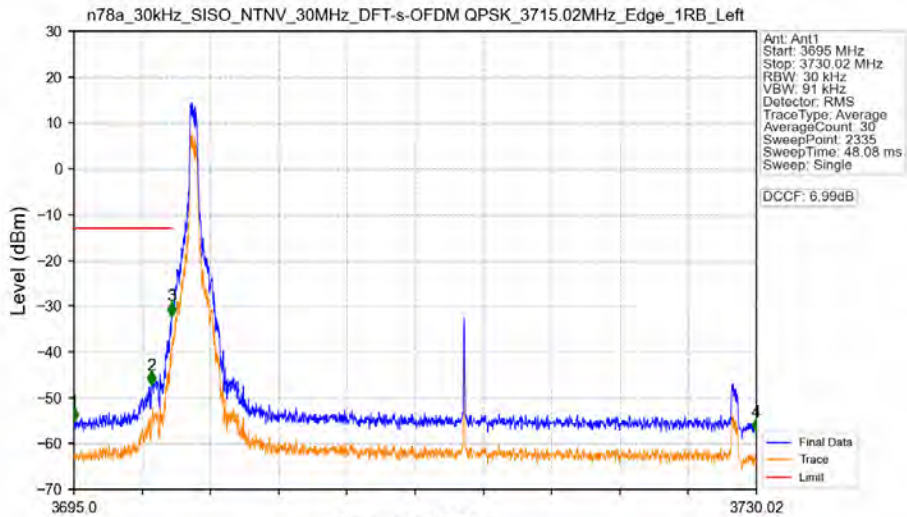
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Report No.: SZCR240100038409

Rev.: 01

Page: 650 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3715.02MHz\_Edge\_1RB\_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.02	1	/	1	3695.000	-55.18	-13	Pass
3695.02	3699.02	0.5	/	2	3698.991	-47.24	-13	Pass
3699.02	3700.02	0.03	/	3	3700.011	-32.18	-13	Pass
3700.02	3730.02	0.03	/	4	3730.020	-57.51	-13	Pass

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3715.02MHz\_Edge\_1RB\_Left



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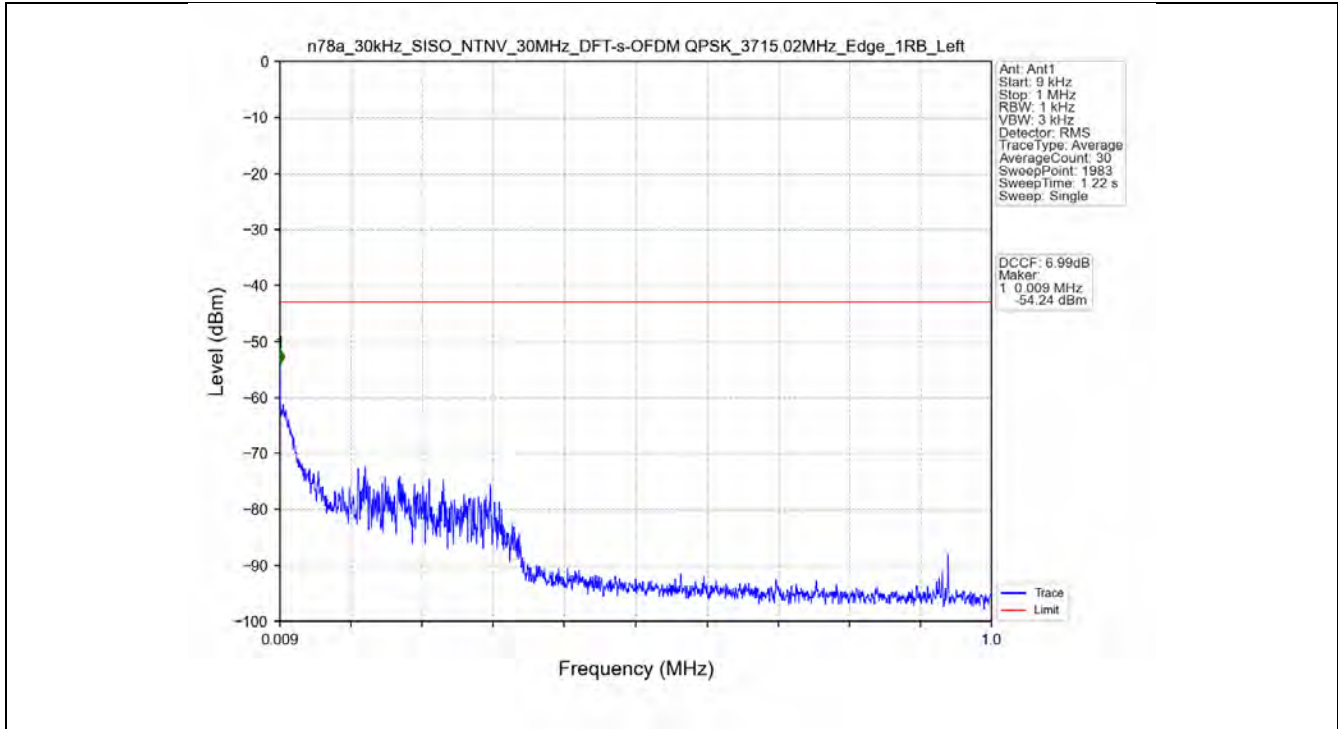


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Report No.: SZCR240100038409

Rev.: 01

Page: 651 of 1458



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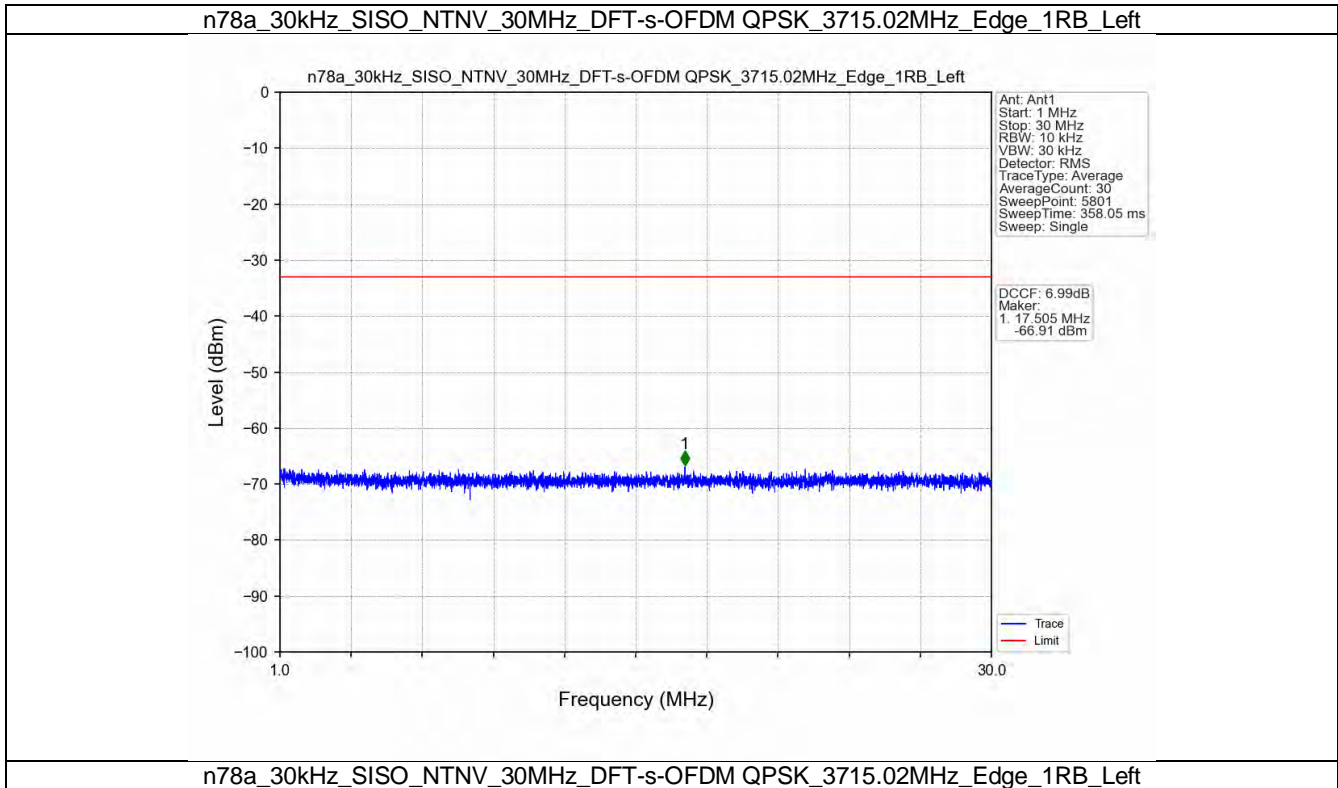


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Report No.: SZCR240100038409

Rev.: 01

Page: 652 of 1458



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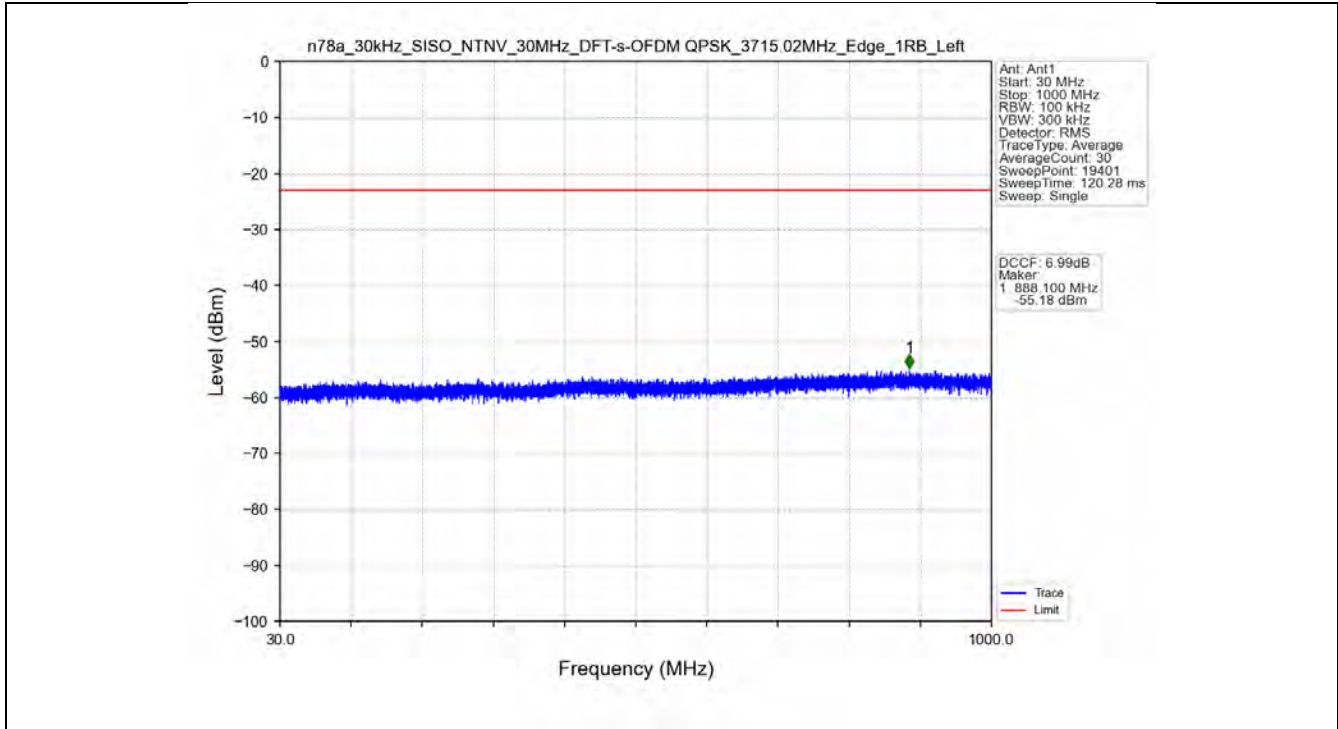


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Rev.: 01

Page: 653 of 1458



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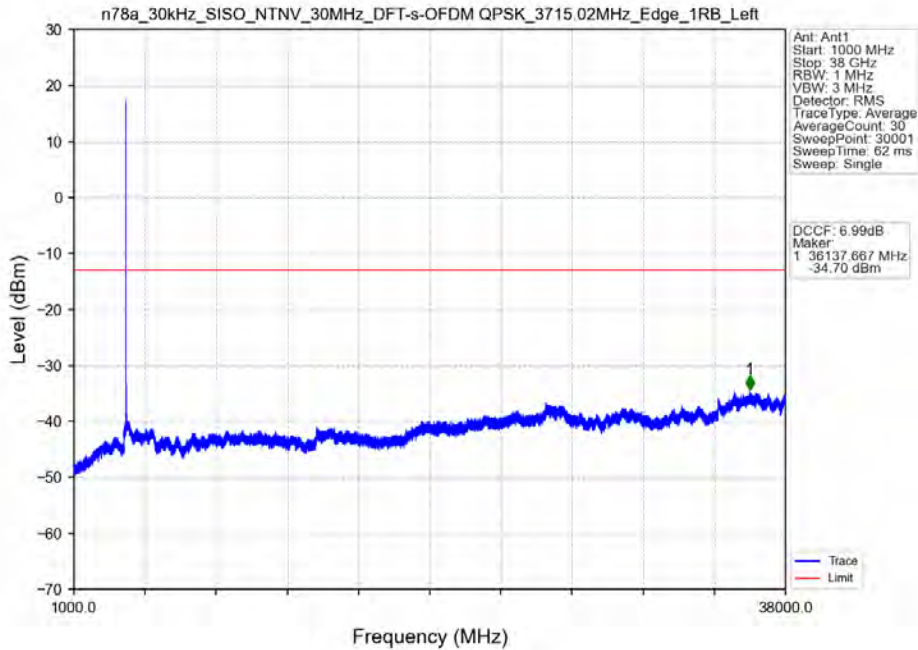
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Report No.: SZCR240100038409

Rev.: 01

Page: 654 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3715.02MHz\_Edge\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3715.02MHz\_Outer\_Full



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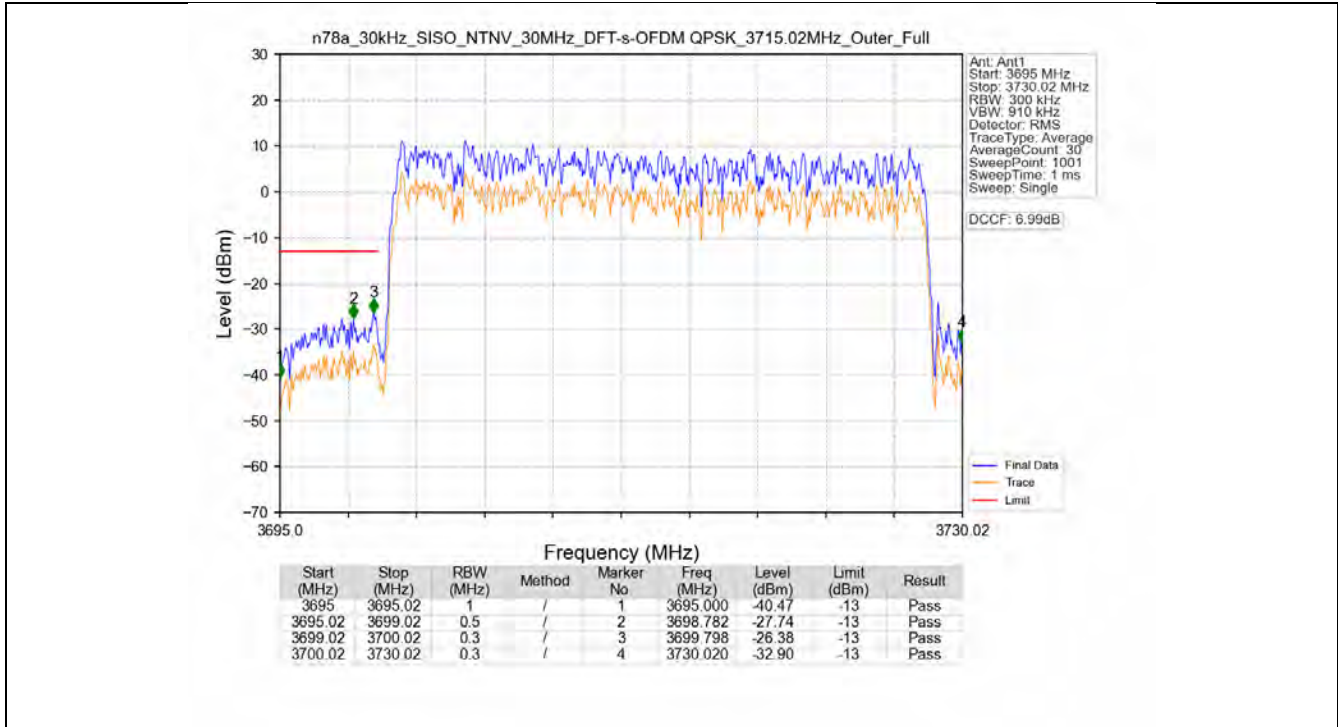


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Rev.: 01

Page: 655 of 1458



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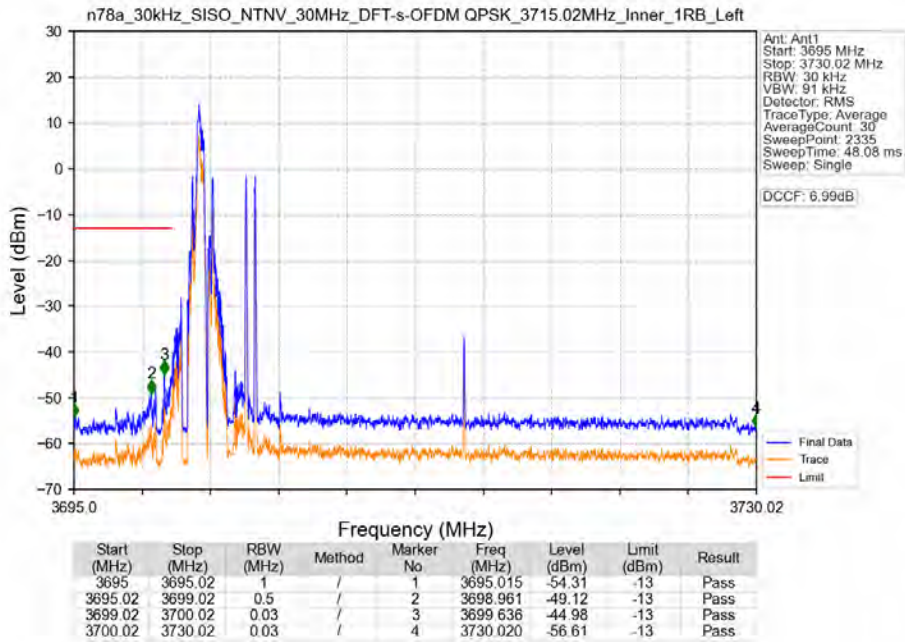
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Report No.: SZCR240100038409

Rev.: 01

Page: 656 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3715.02MHz\_Inner\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3750MHz\_Edge\_1RB\_Left



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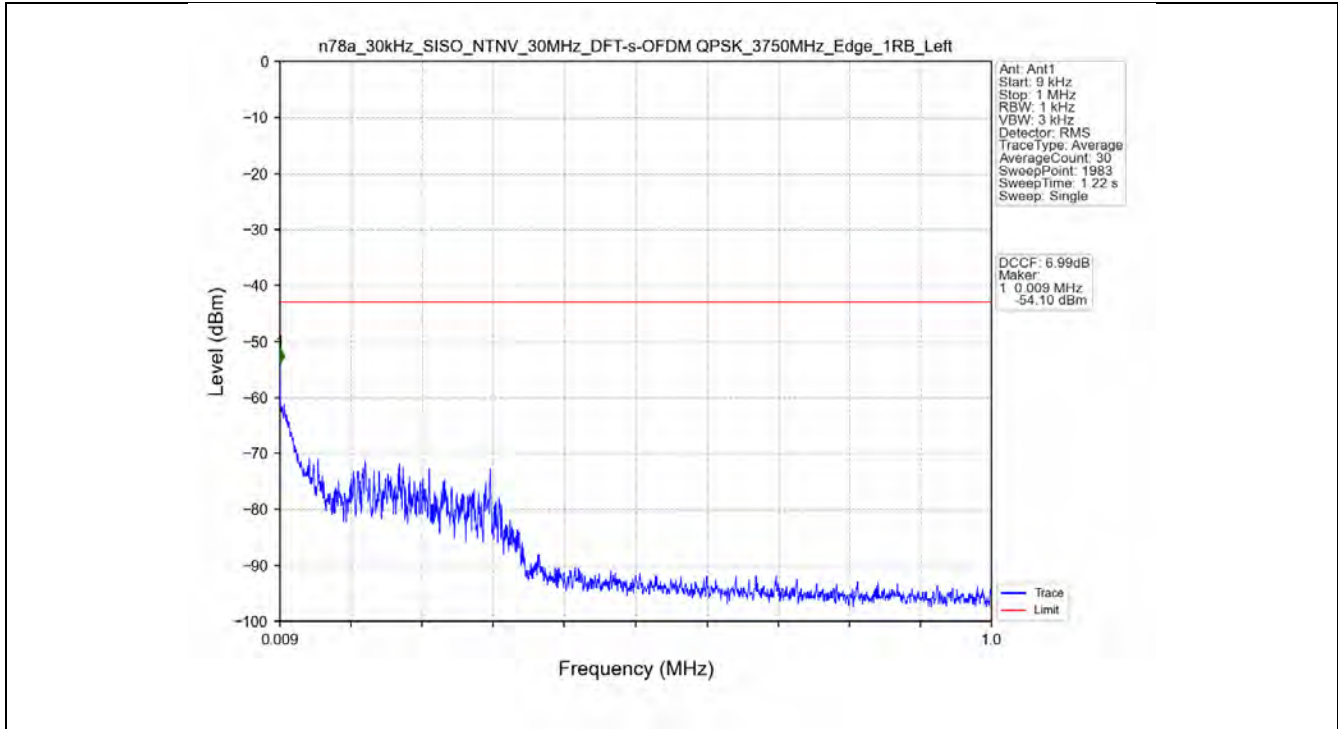


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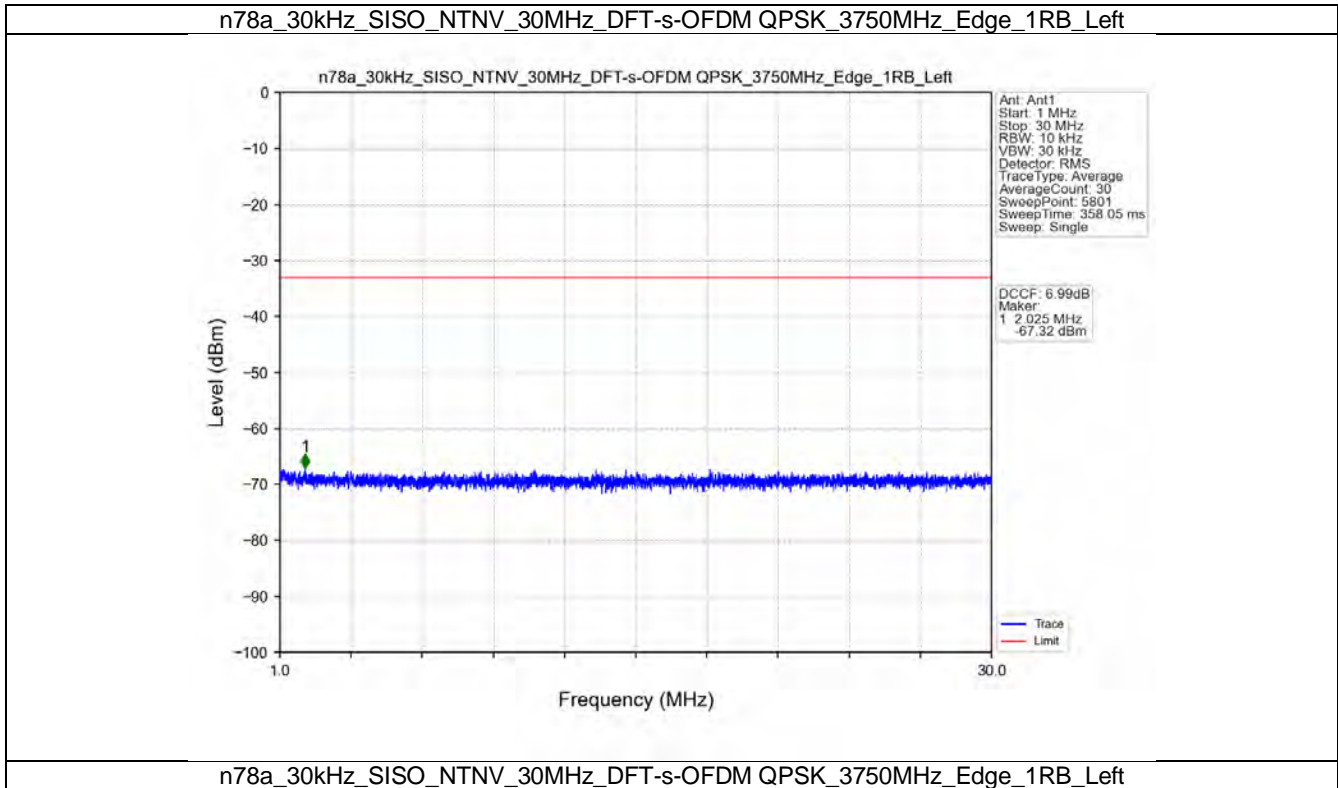


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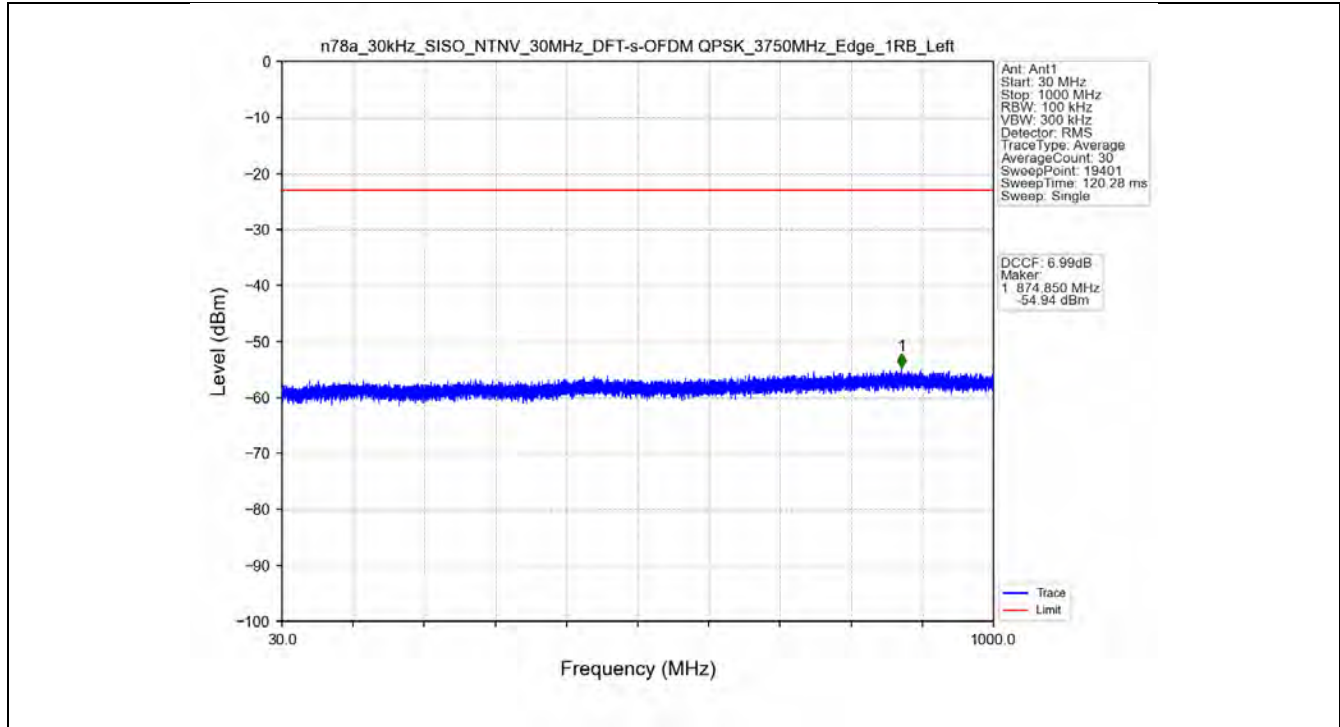


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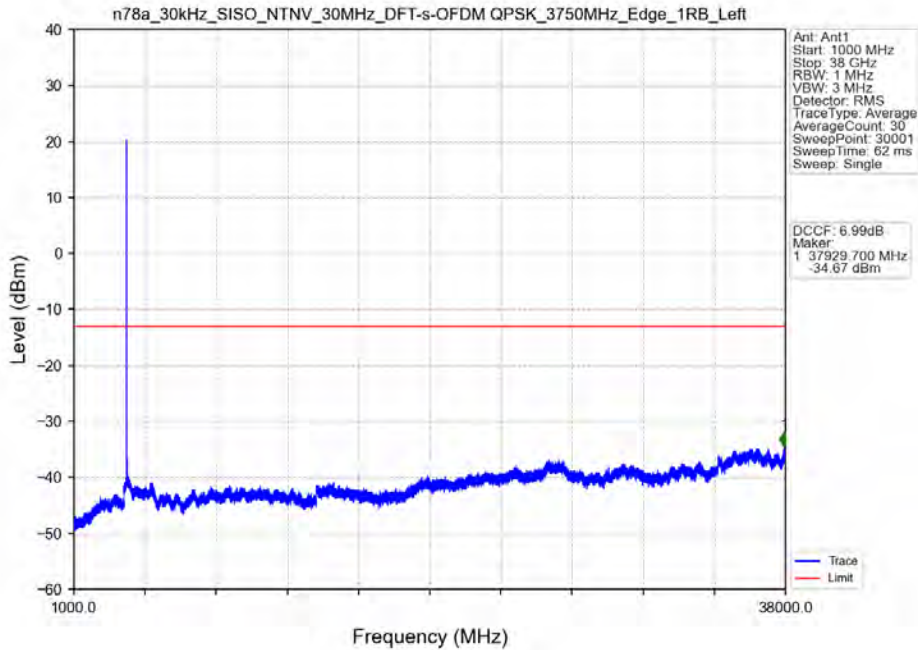
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Report No.: SZCR240100038409

Rev.: 01

Page: 660 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3750MHz\_Edge\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3784.98MHz\_Edge\_1RB\_Right



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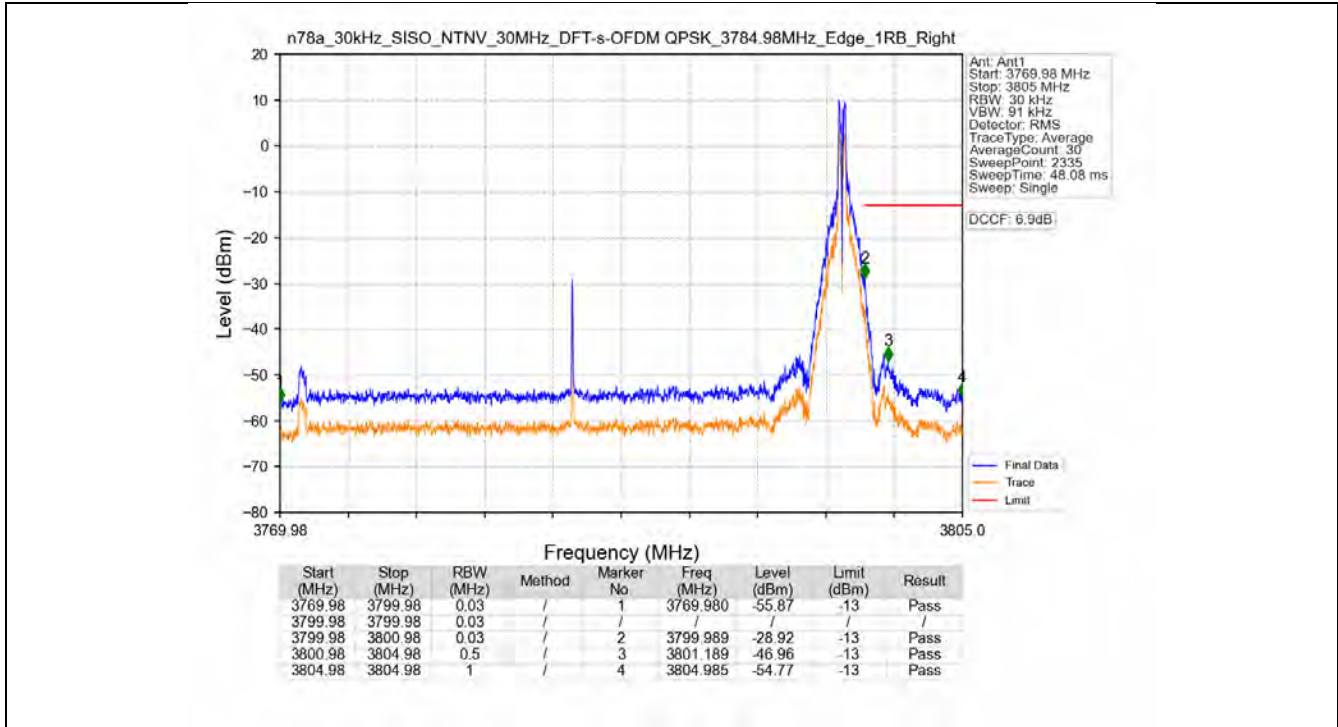


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Rev.: 01

Page: 661 of 1458



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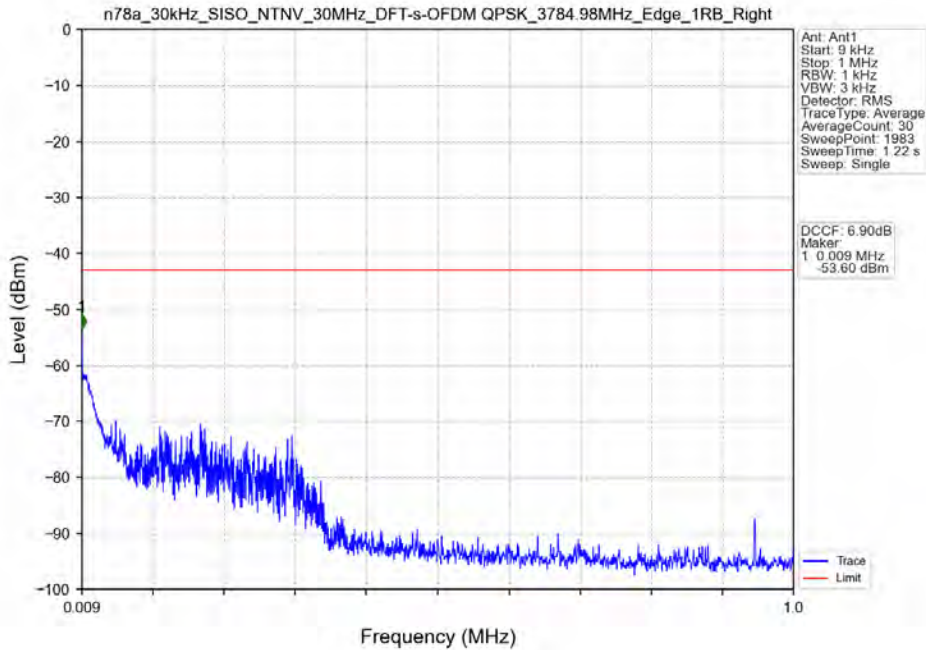
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Report No.: SZCR240100038409

Rev.: 01

Page: 662 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3784.98MHz\_Edge\_1RB\_Right



n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3784.98MHz\_Edge\_1RB\_Right



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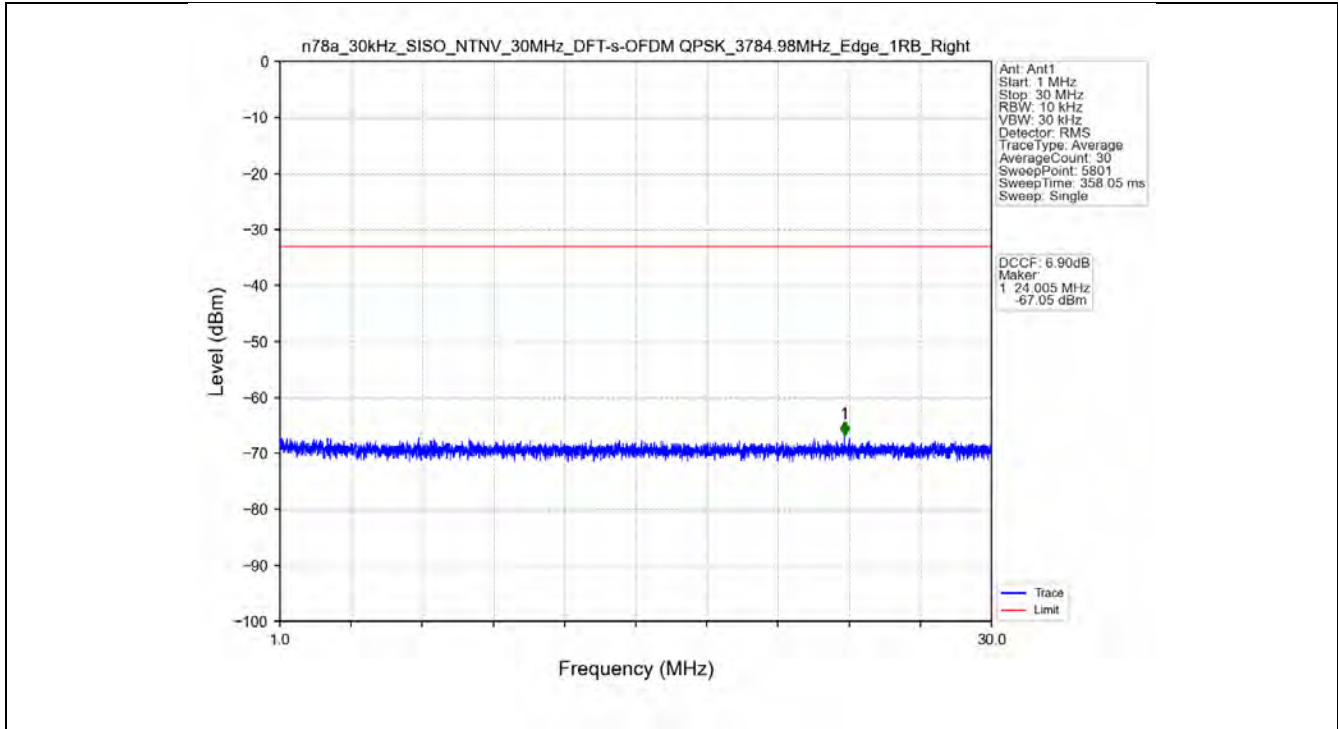


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Report No.: SZCR240100038409

Rev.: 01

Page: 663 of 1458



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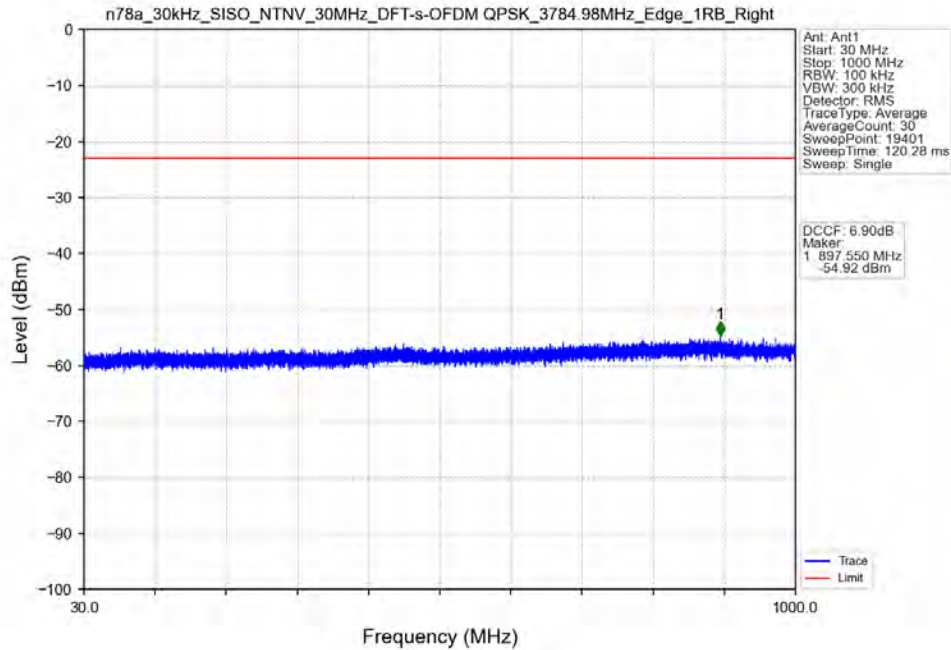
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Report No.: SZCR240100038409

Rev.: 01

Page: 664 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3784.98MHz\_Edge\_1RB\_Right



n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3784.98MHz\_Edge\_1RB\_Right



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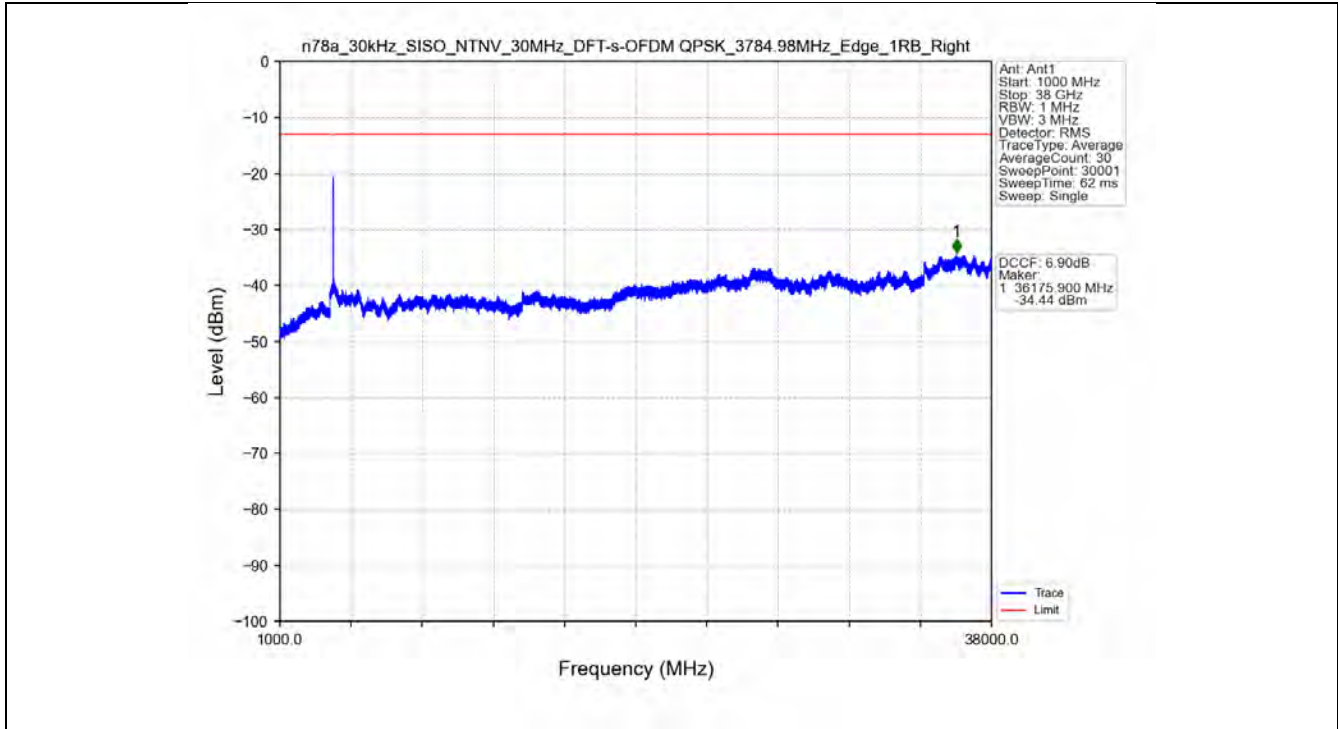


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Report No.: SZCR240100038409

Rev.: 01

Page: 665 of 1458



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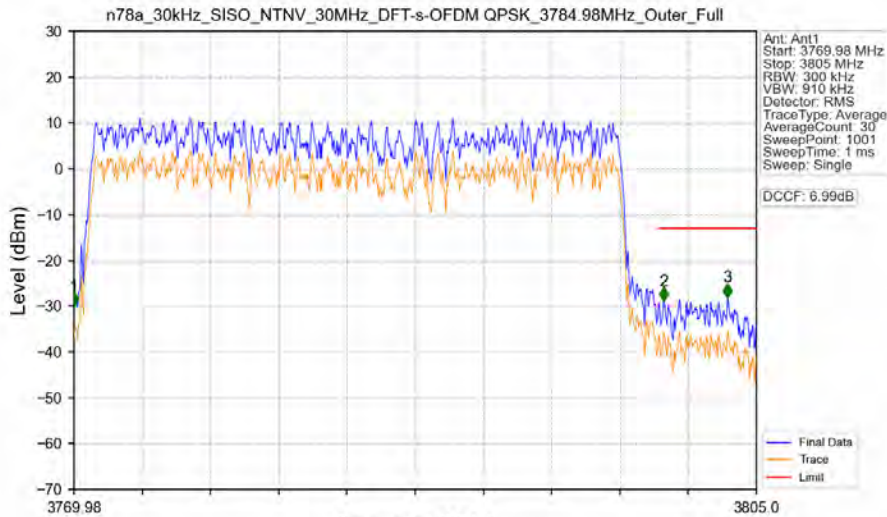
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Report No.: SZCR240100038409

Rev.: 01

Page: 666 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3784.98MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3769.98	3799.98	0.3	/	1	3769.980	-30.02	-13	Pass
3799.98	3799.98	0.3	/	/	/	/	/	/
3799.98	3800.98	0.3	/	2	3800.237	-28.90	-13	Pass
3800.98	3804.98	0.5	/	3	3803.529	-28.13	-13	Pass

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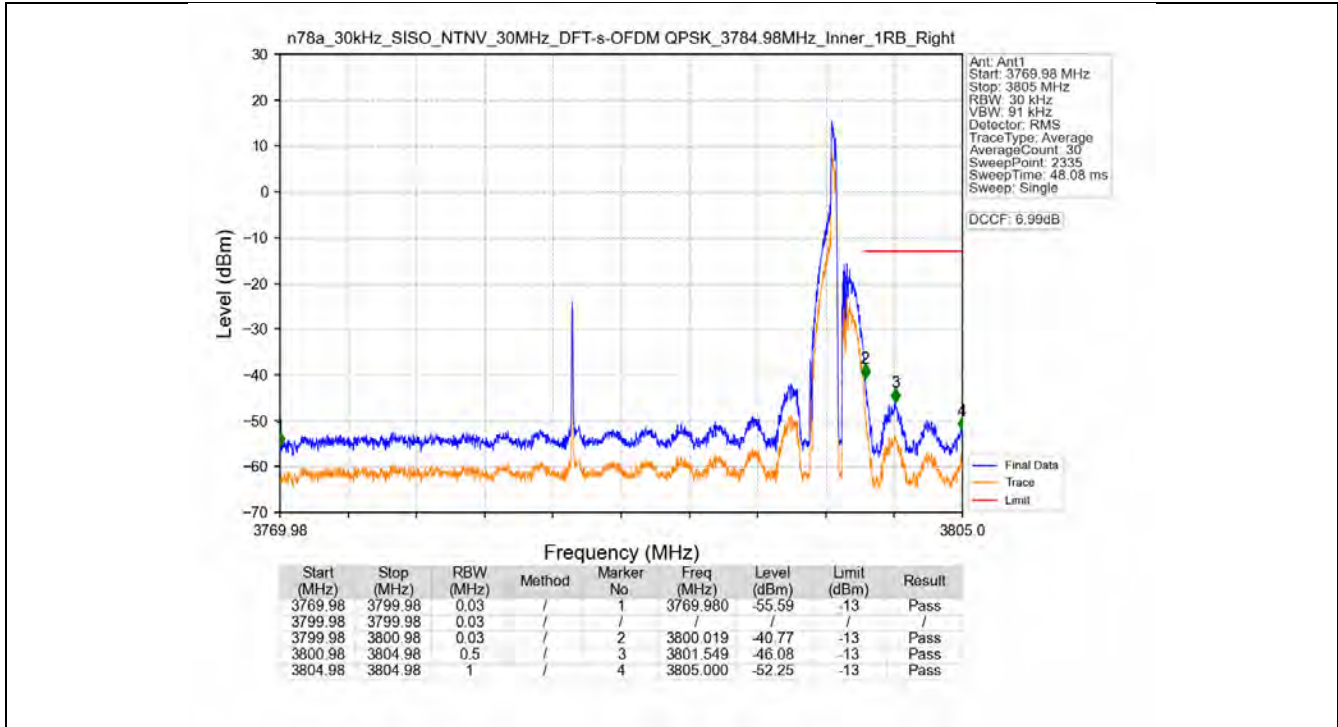


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Report No.: SZCR240100038409

Rev.: 01

Page: 667 of 1458



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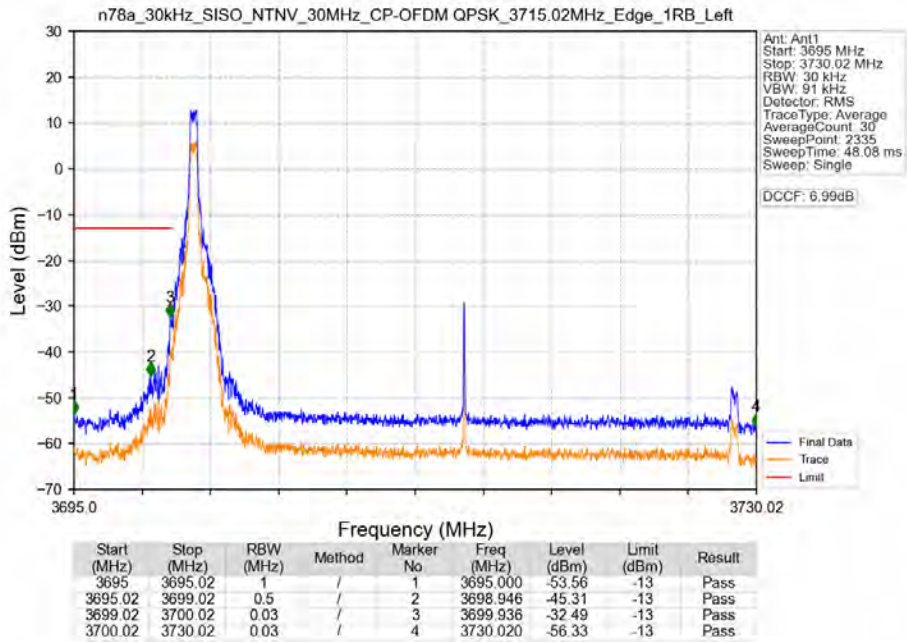
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Report No.: SZCR240100038409

Rev.: 01

Page: 668 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3715.02MHz\_Edge\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3715.02MHz\_Edge\_1RB\_Left



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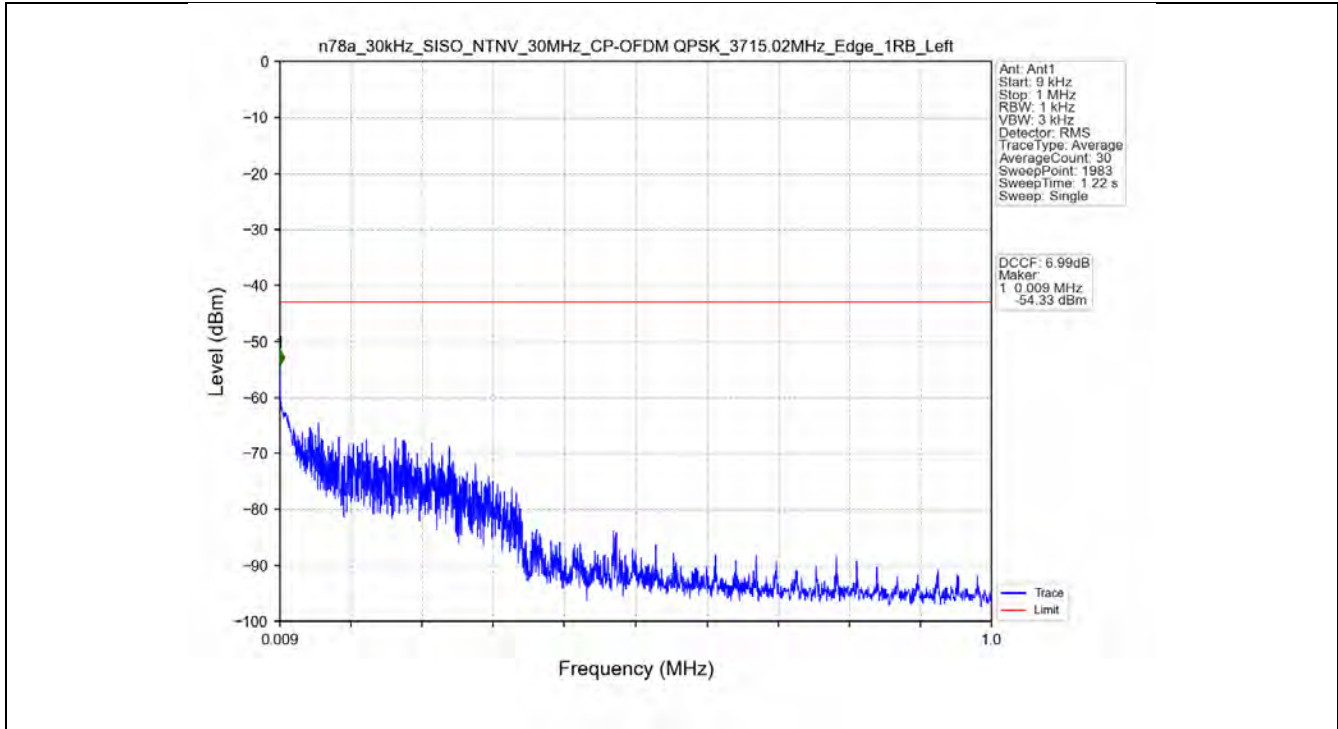


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Report No.: SZCR240100038409

Rev.: 01

Page: 669 of 1458



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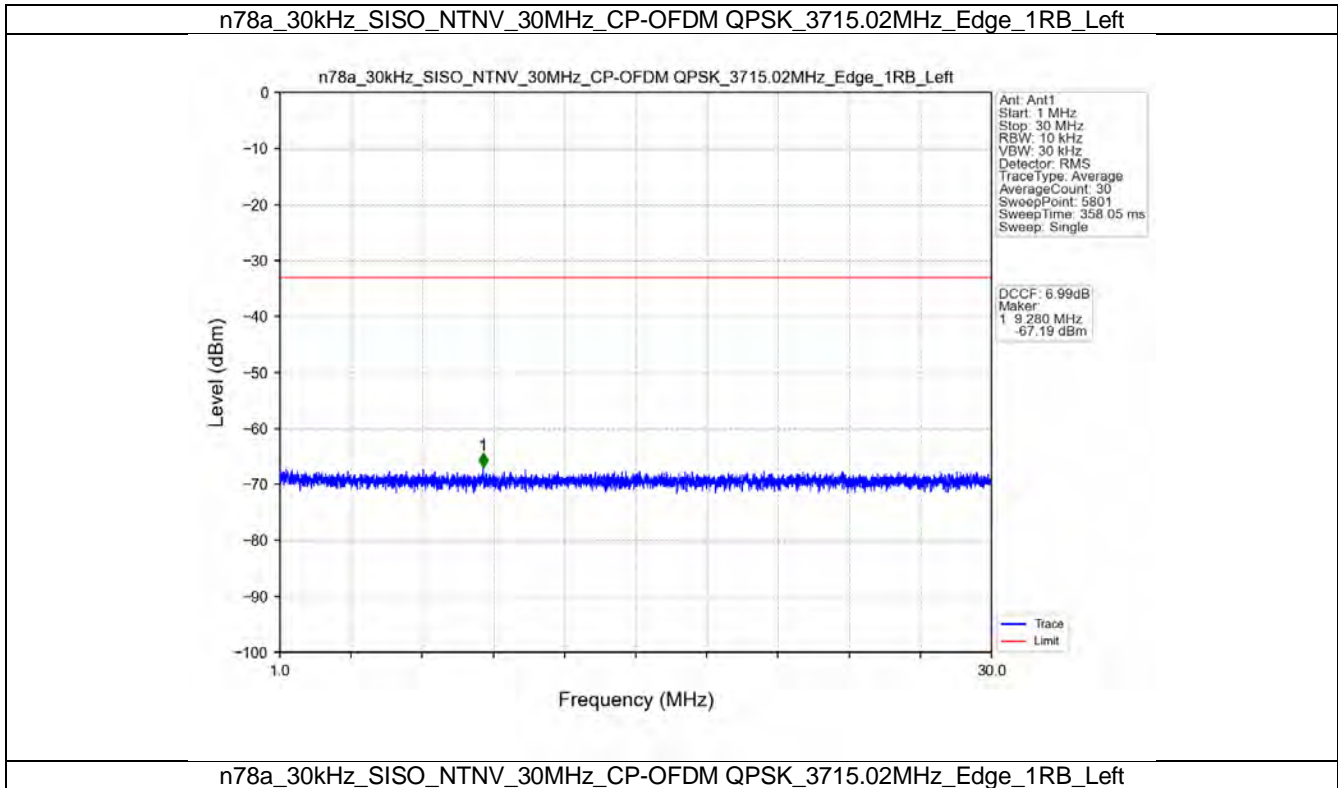


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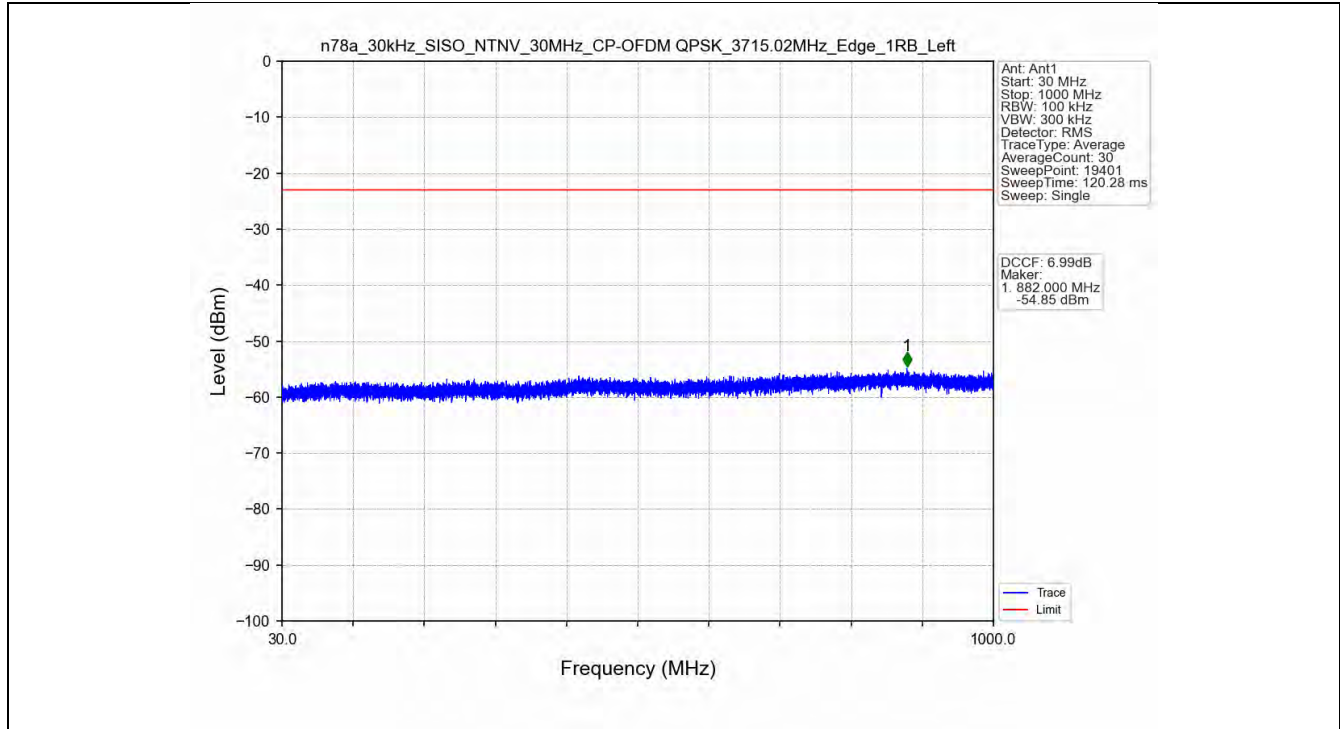


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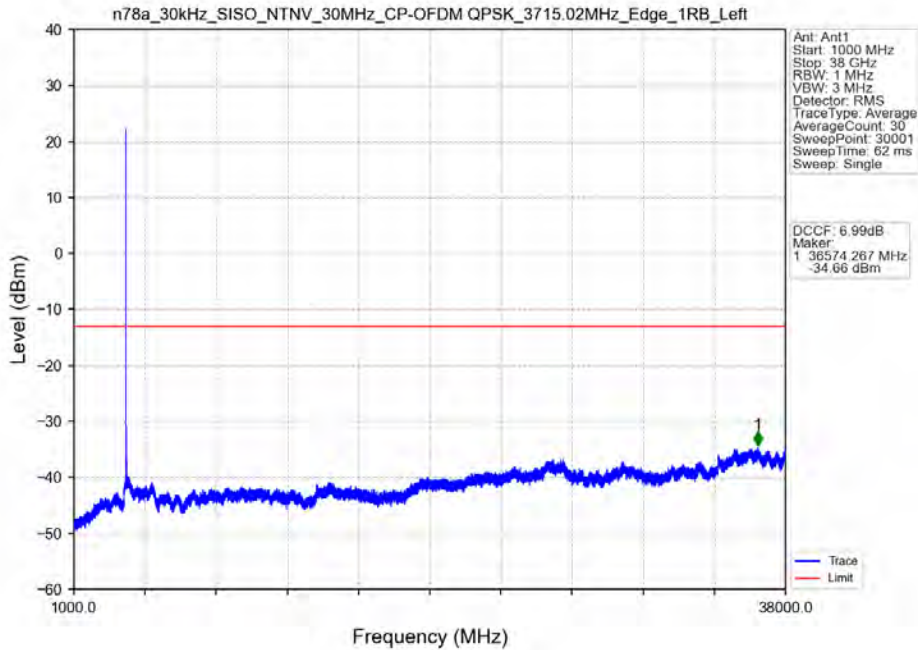
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Report No.: SZCR240100038409

Rev.: 01

Page: 672 of 1458

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n78a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3715.02MHz\_Outer\_Full



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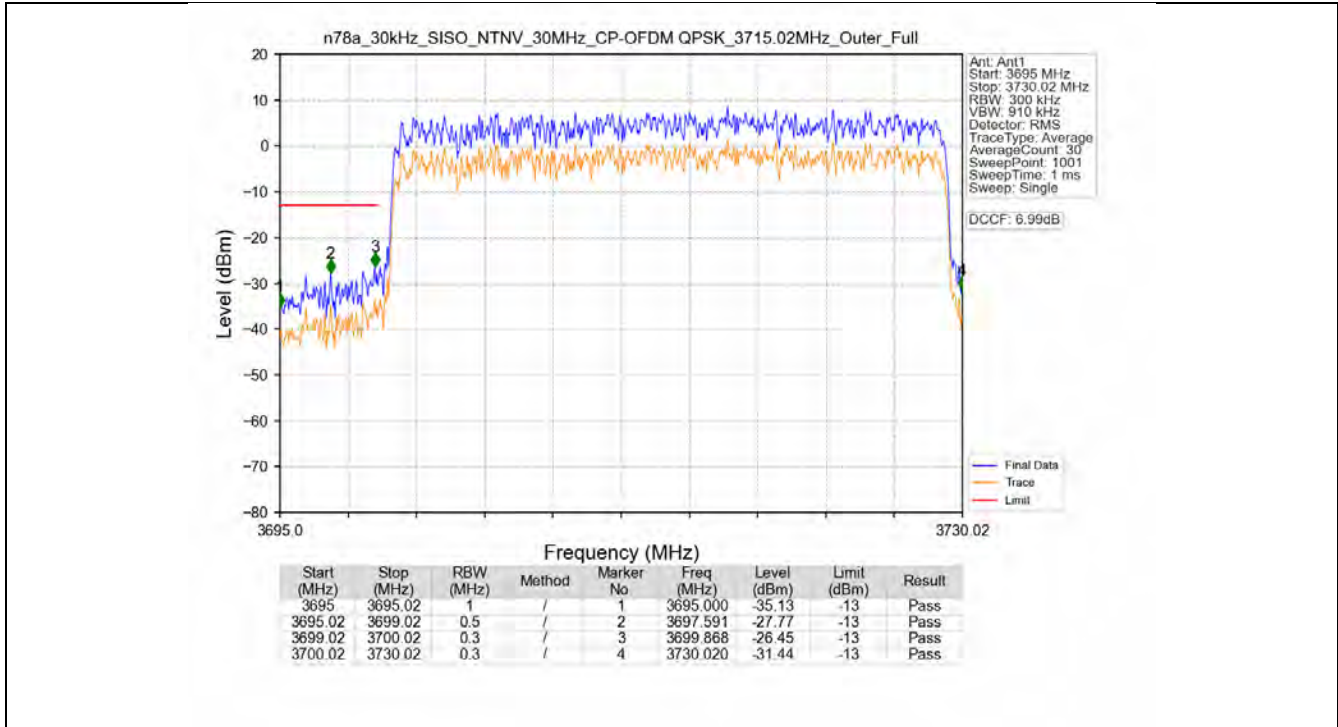


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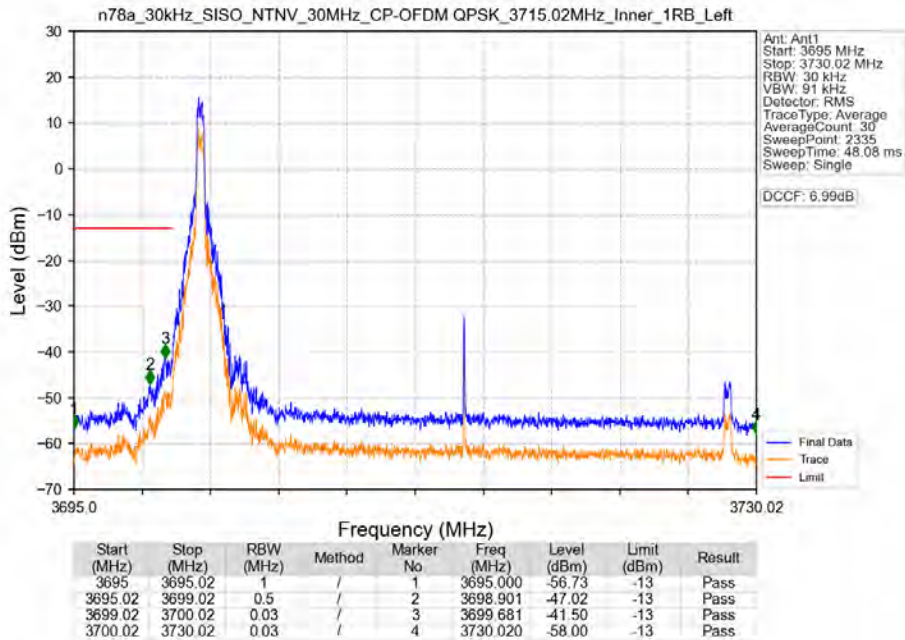
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Report No.: SZCR240100038409

Rev.: 01

Page: 674 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3715.02MHz\_Inner\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3750MHz\_Edge\_1RB\_Left



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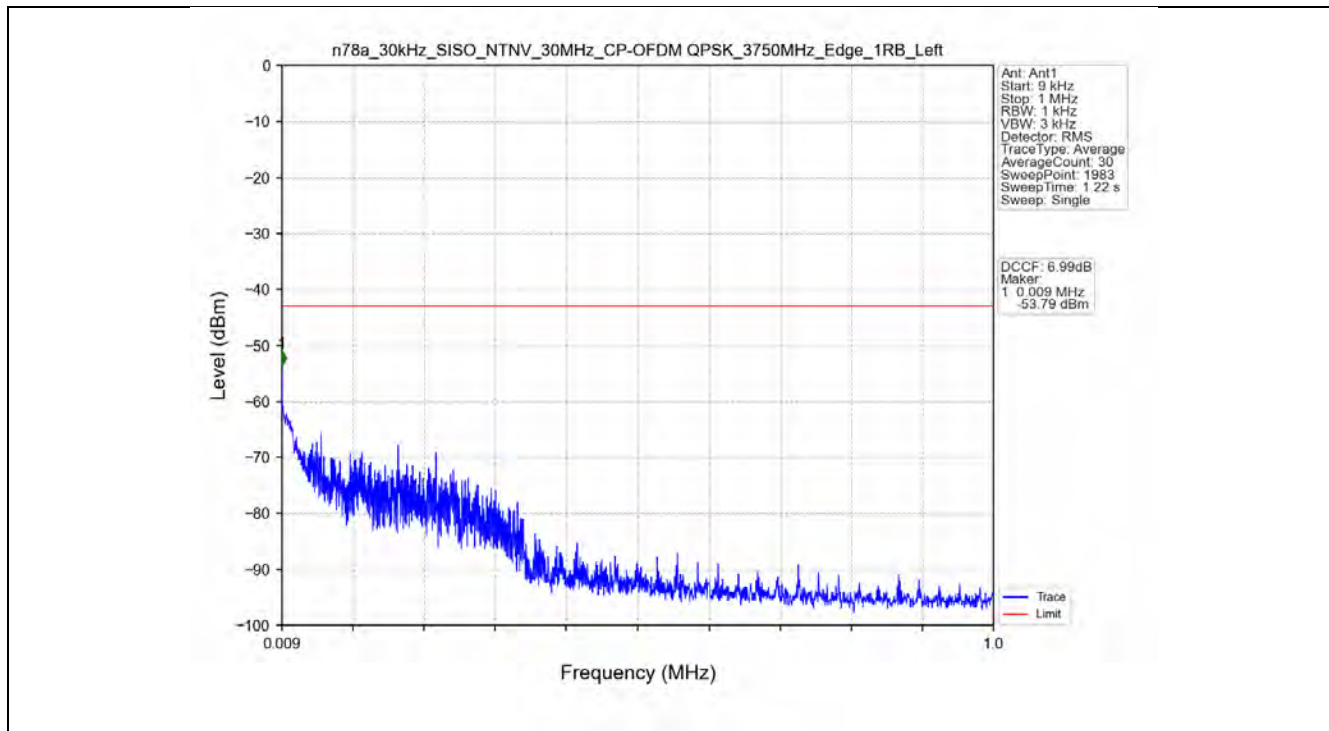
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Rev.: 01  
Page: 675 of 1458



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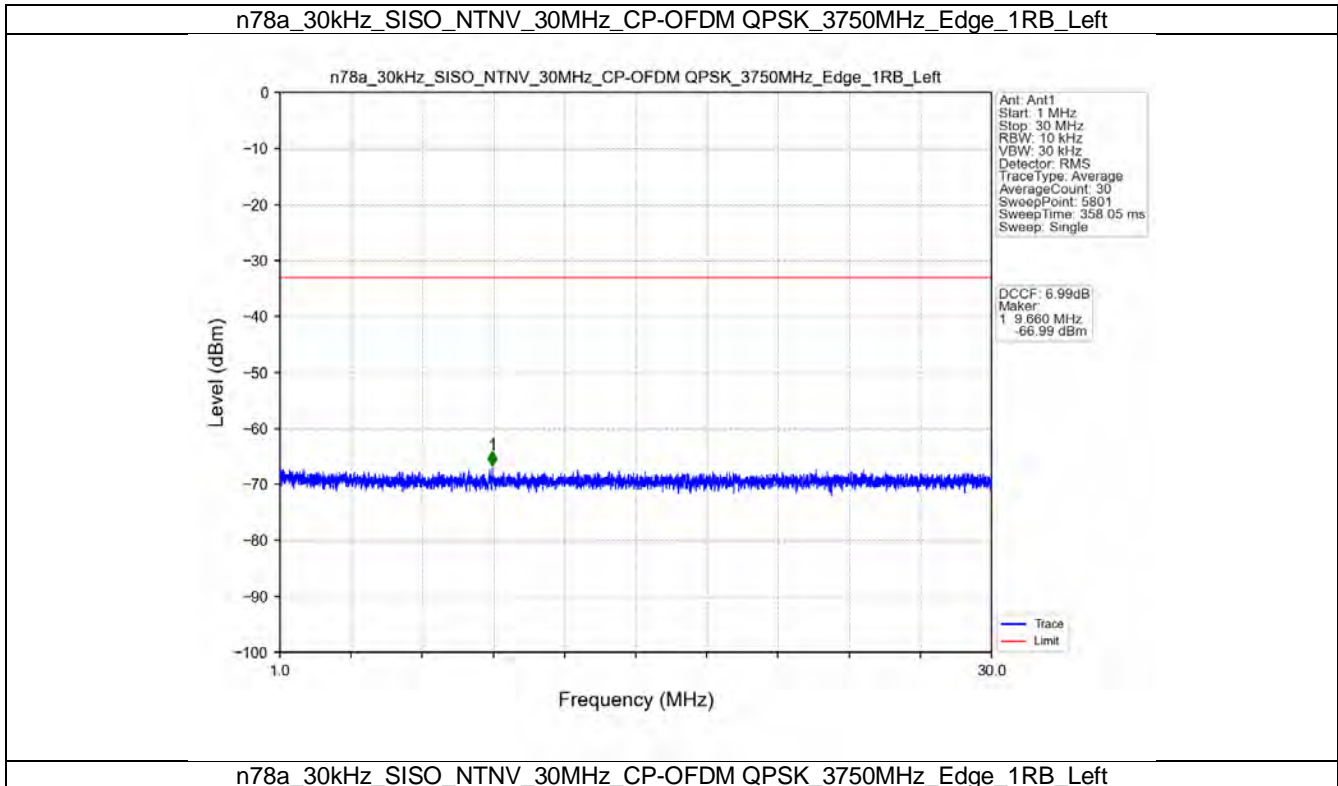


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Report No.: SZCR240100038409

Rev.: 01

Page: 676 of 1458



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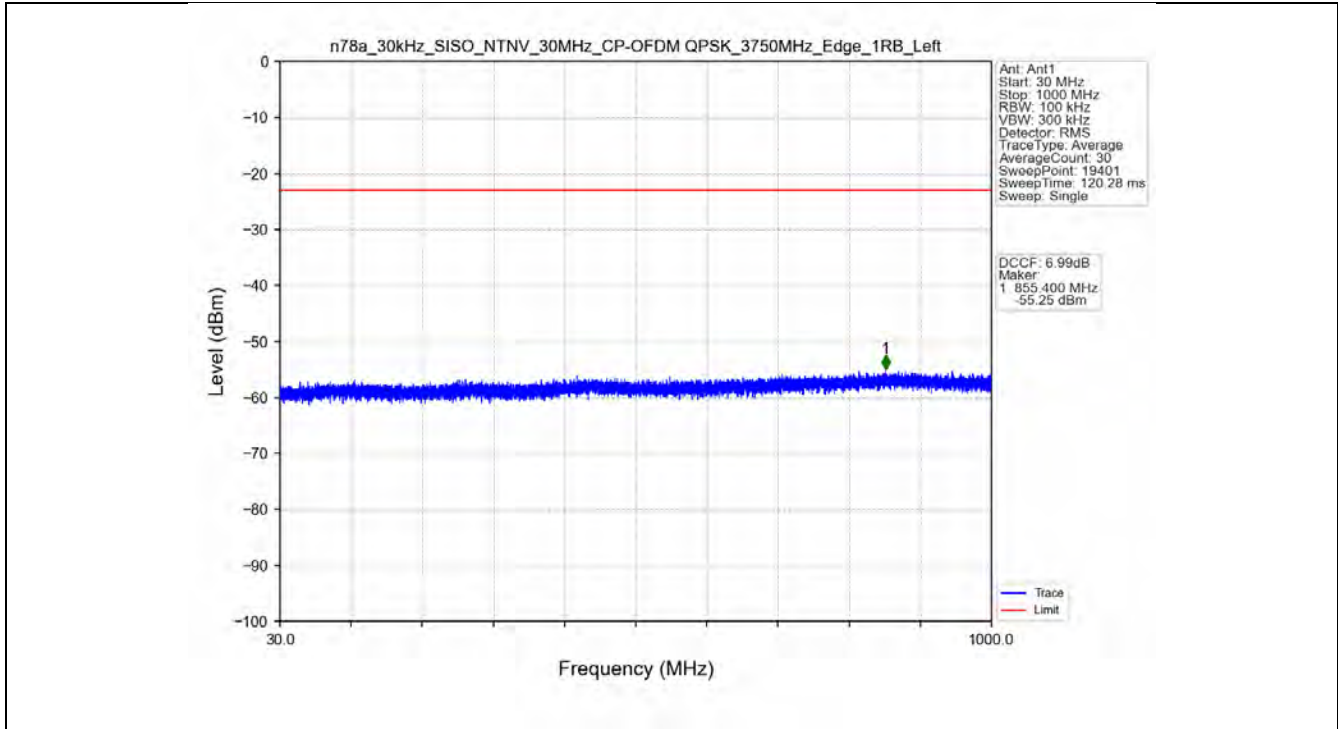


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Report No.: SZCR240100038409

Rev.: 01

Page: 677 of 1458



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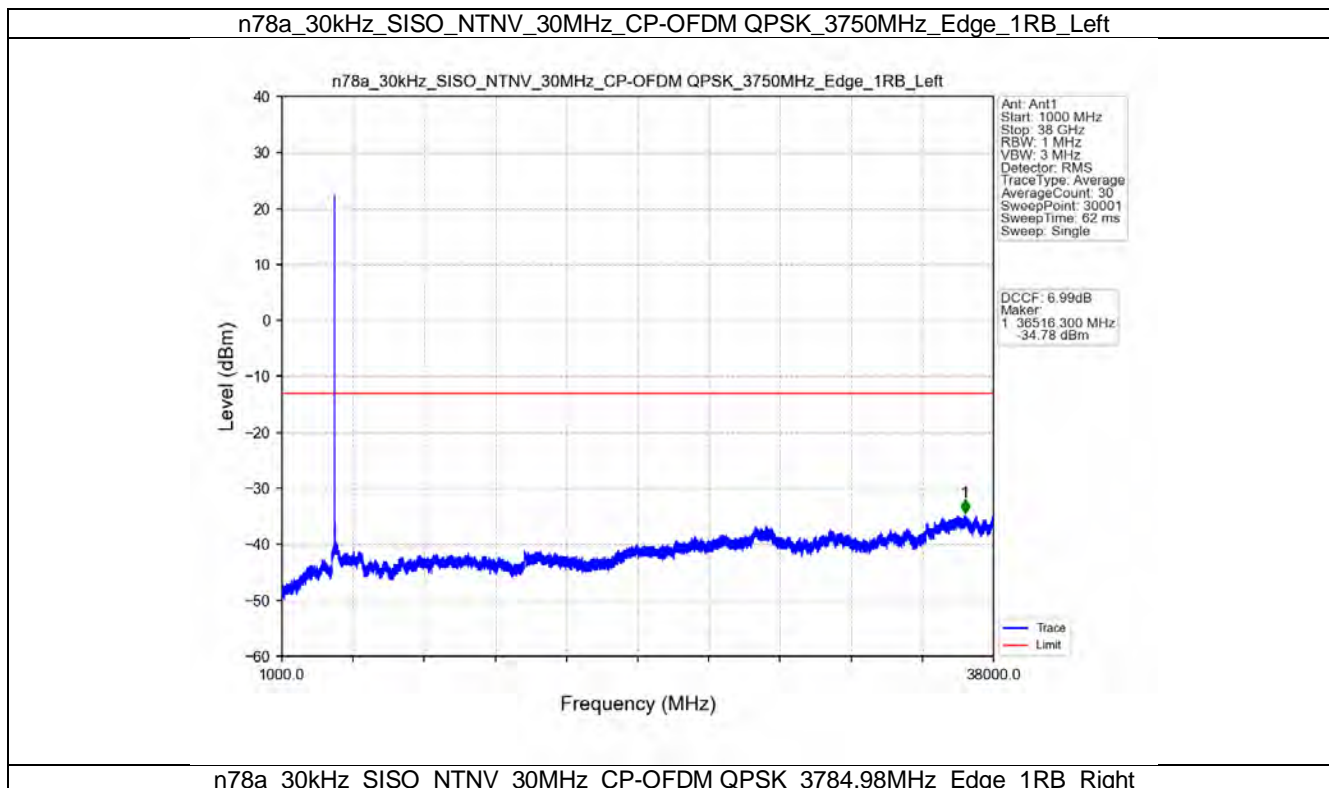
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Rev.: 01  
Page: 678 of 1458



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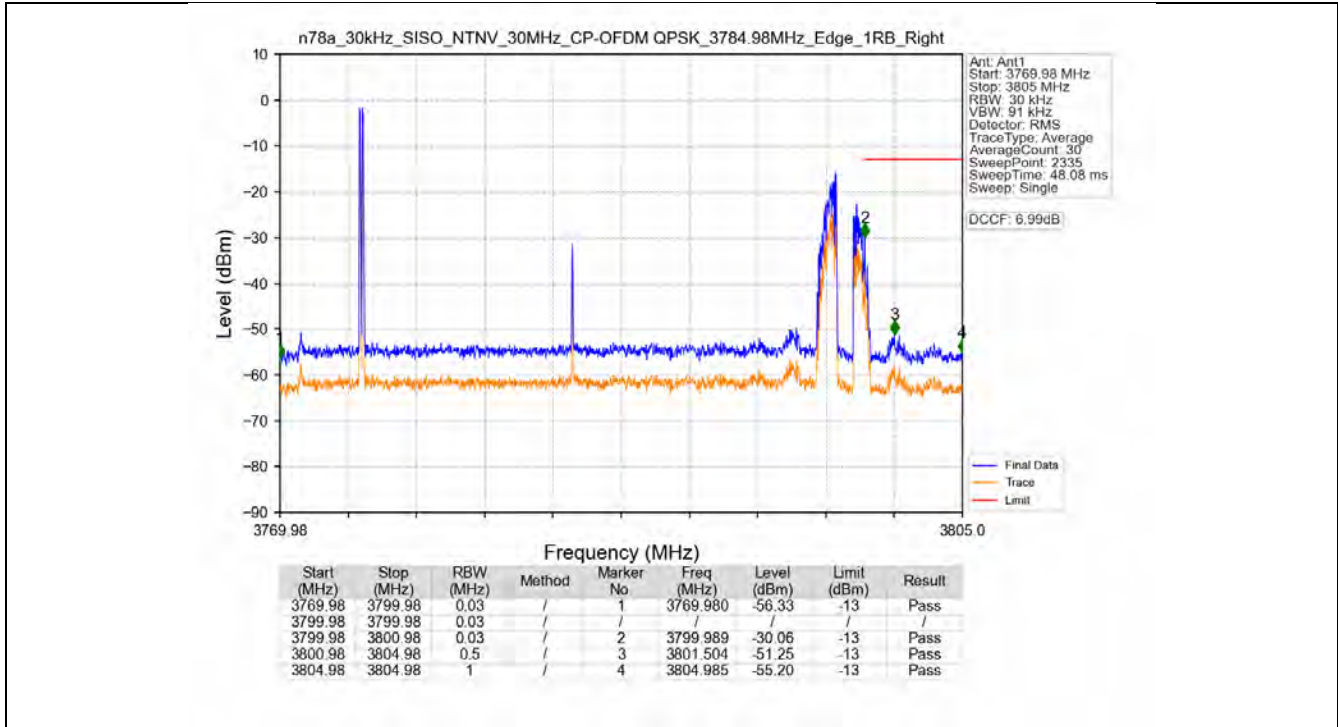


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Report No.: SZCR240100038409

Rev.: 01

Page: 679 of 1458



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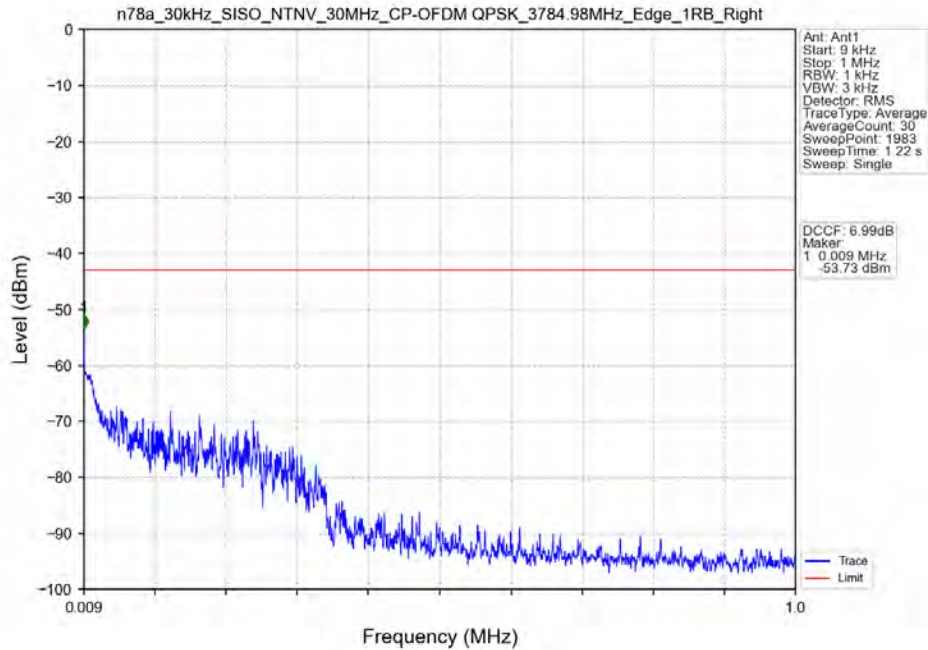
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Report No.: SZCR240100038409

Rev.: 01

Page: 680 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3784.98MHz\_Edge\_1RB\_Right



n78a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3784.98MHz\_Edge\_1RB\_Right



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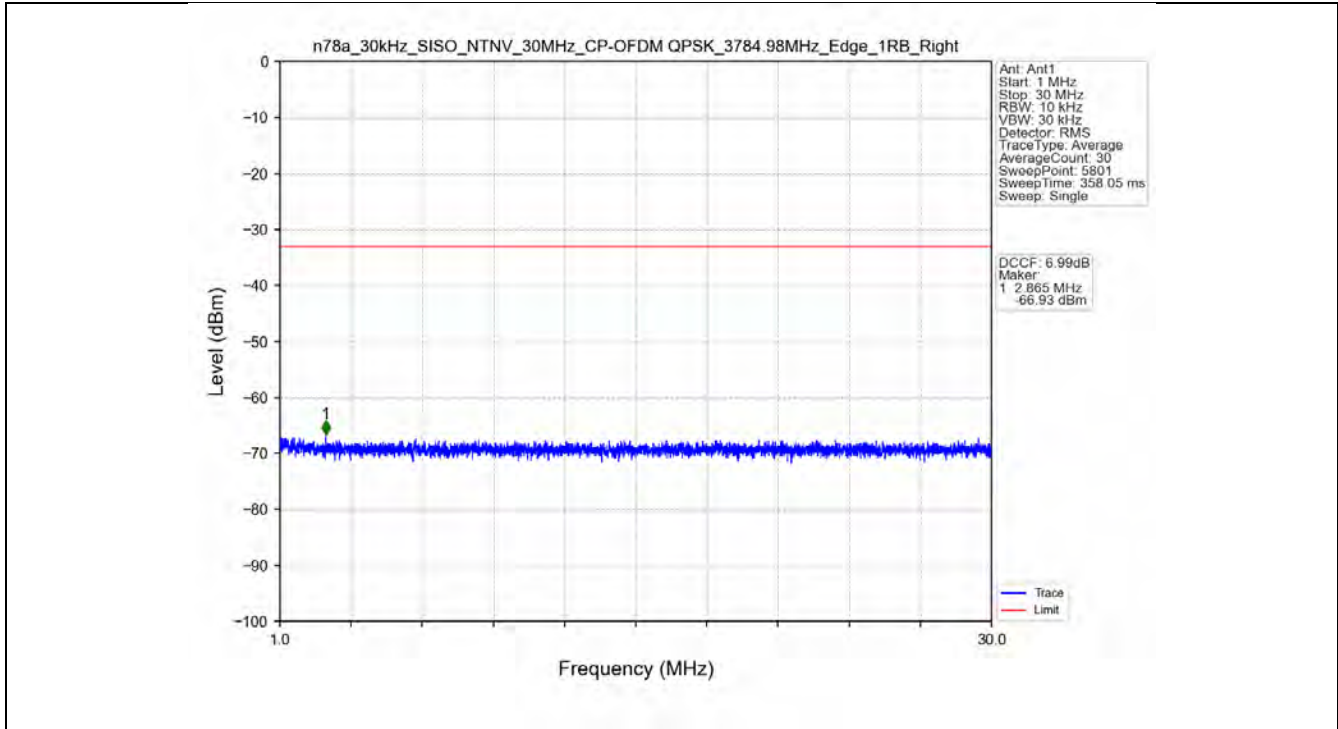


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Report No.: SZCR240100038409

Rev.: 01

Page: 681 of 1458



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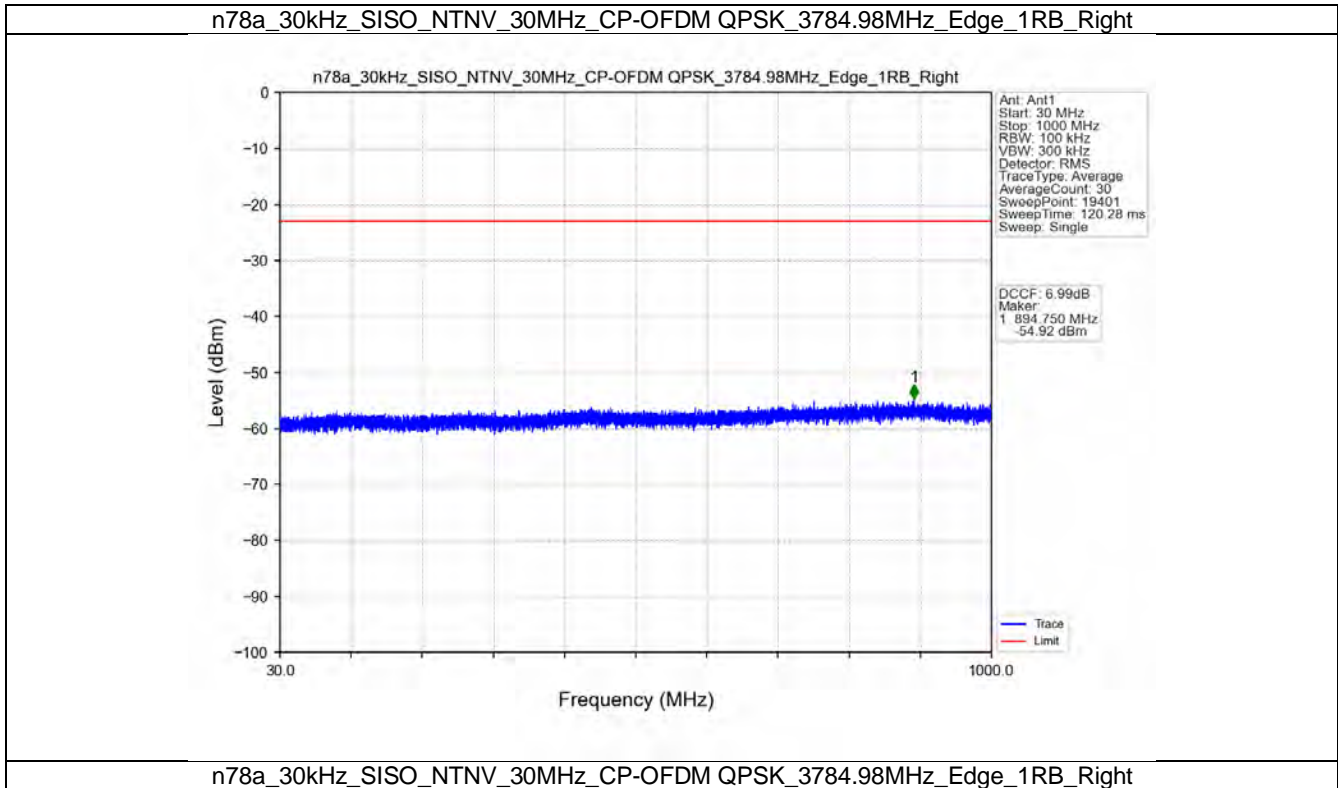


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Page: 682 of 1458



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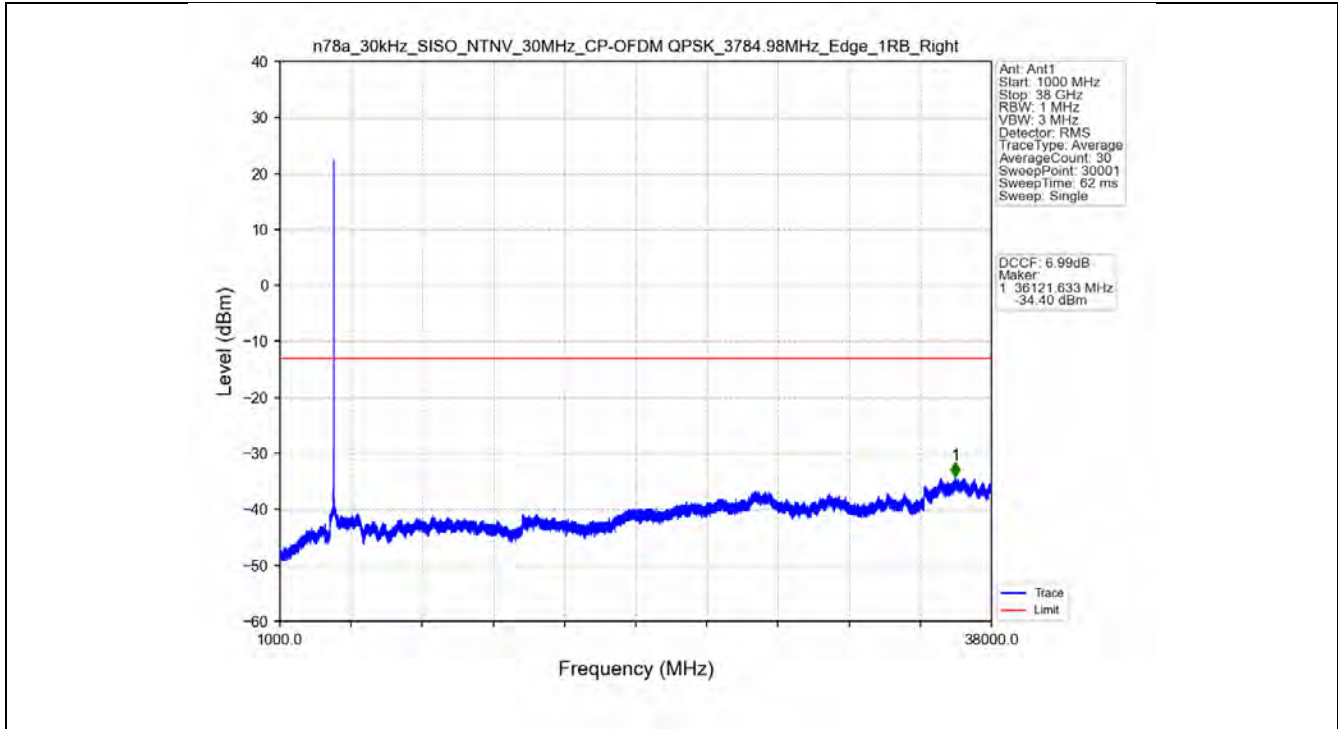


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Rev.: 01

Page: 683 of 1458



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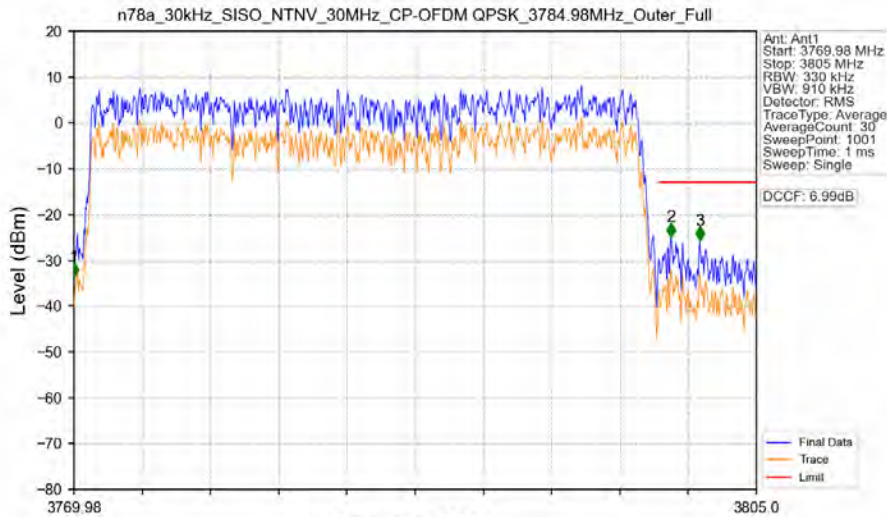
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Report No.: SZCR240100038409

Rev.: 01

Page: 684 of 1458

n78a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3784.98MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3769.98	3799.98	0.33	/	1	3769.980	-33.59	-13	Pass
3799.98	3799.98	0.33	/	/	/	/	/	/
3799.98	3800.98	0.33	/	2	3800.622	-24.91	-13	Pass
3800.98	3804.98	0.5	/	3	3802.093	-25.69	-13	Pass

n78a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3784.98MHz\_Inner\_1RB\_Right



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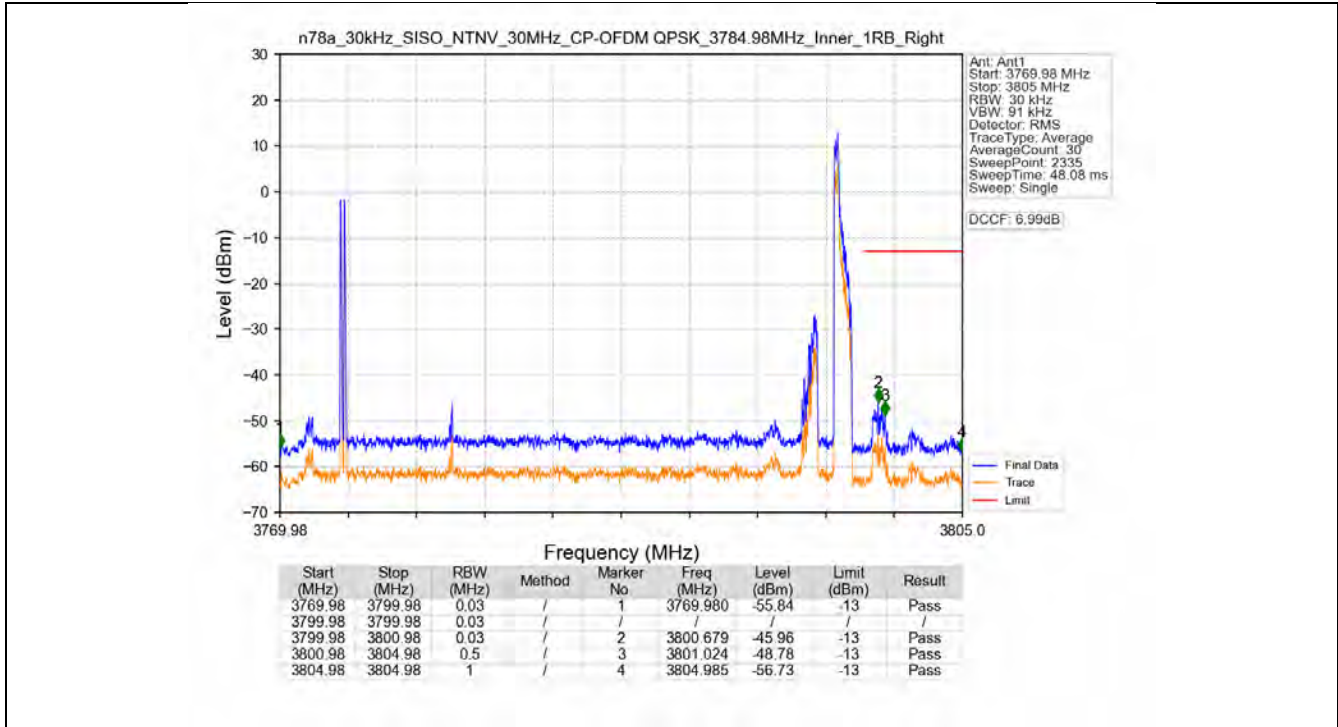


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Report No.: SZCR240100038409

Rev.: 01

Page: 686 of 1458

## 5.3 30k\_SISO\_40MHz\_NTNV

### 5.3.1 Test Result

5G NR n78a SCS=30kHz SISO 40MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant4	Sum	
DFT-s-OFDM PI/2 BPSK	3720	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3750	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	3720	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3750	Inner_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
CP-OFDM QPSK	3780	Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
	3720	Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
3750	Edge_1RB_Left	Refer To Test Graph			Pass	
	Edge_1RB_Right	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	
3780	Inner_1RB_Right	Refer To Test Graph			Pass	
	Outer_Full	Refer To Test Graph			Pass	
	Inner_1RB_Right	Refer To Test Graph			Pass	



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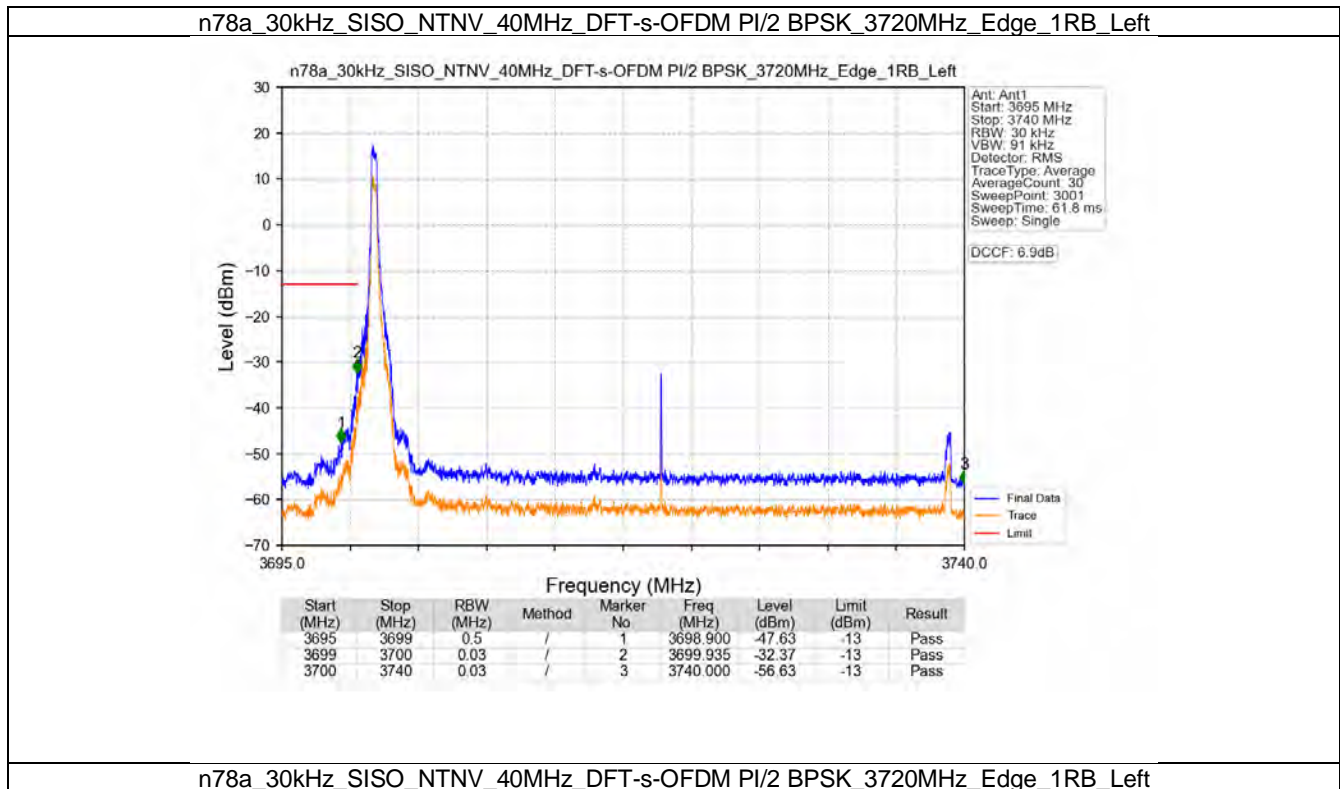
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Report No.: SZCR240100038409

Rev.: 01

Page: 687 of 1458

5.3.2 Test Graph



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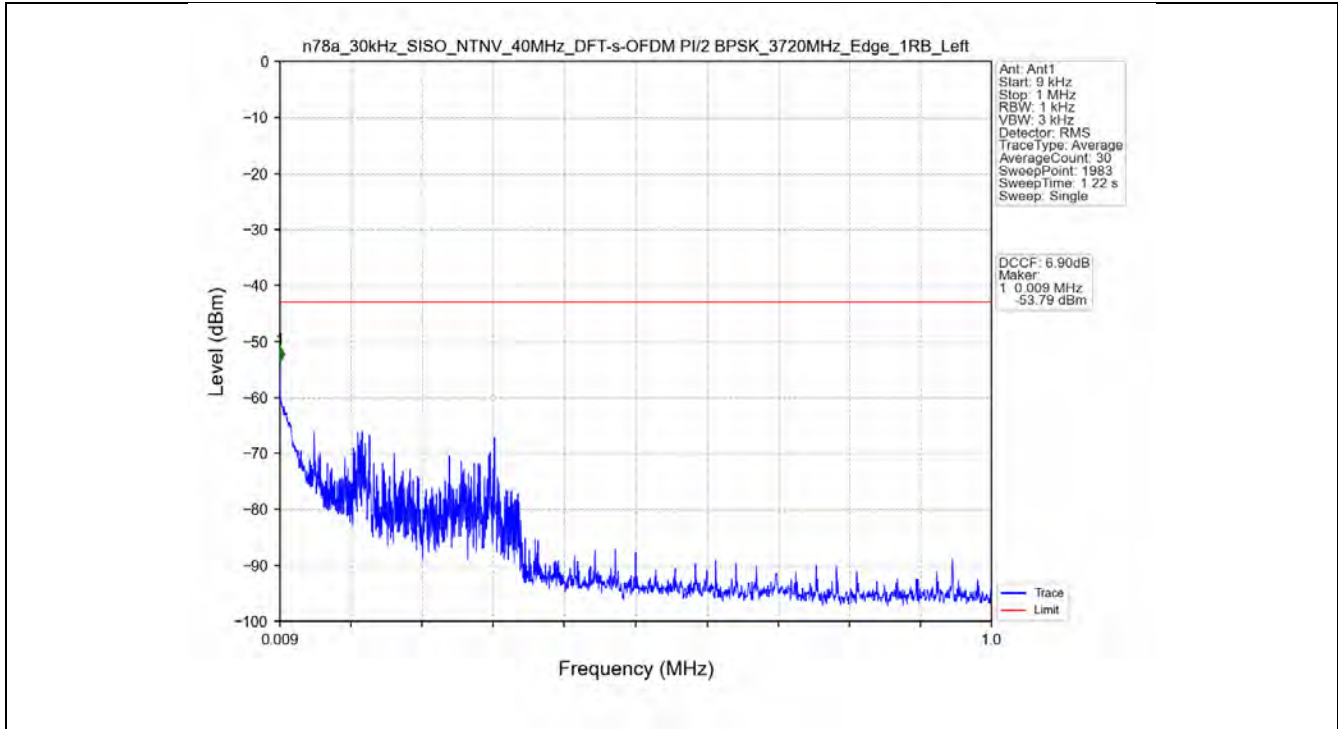


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Page: 688 of 1458



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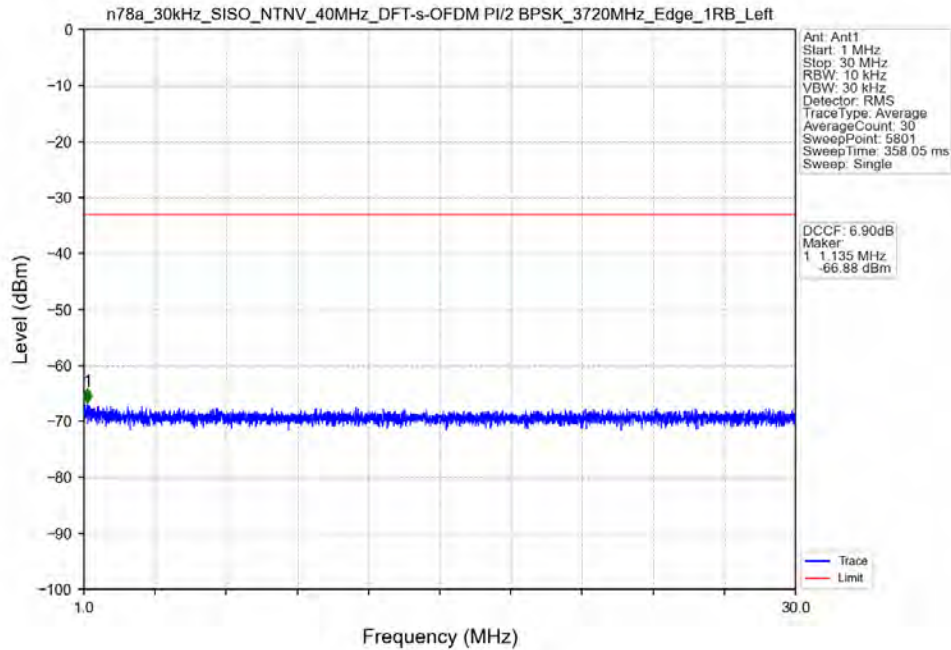
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Report No.: SZCR240100038409

Rev.: 01

Page: 689 of 1458

n78a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3720MHz\_Edge\_1RB\_Left



n78a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3720MHz\_Edge\_1RB\_Left



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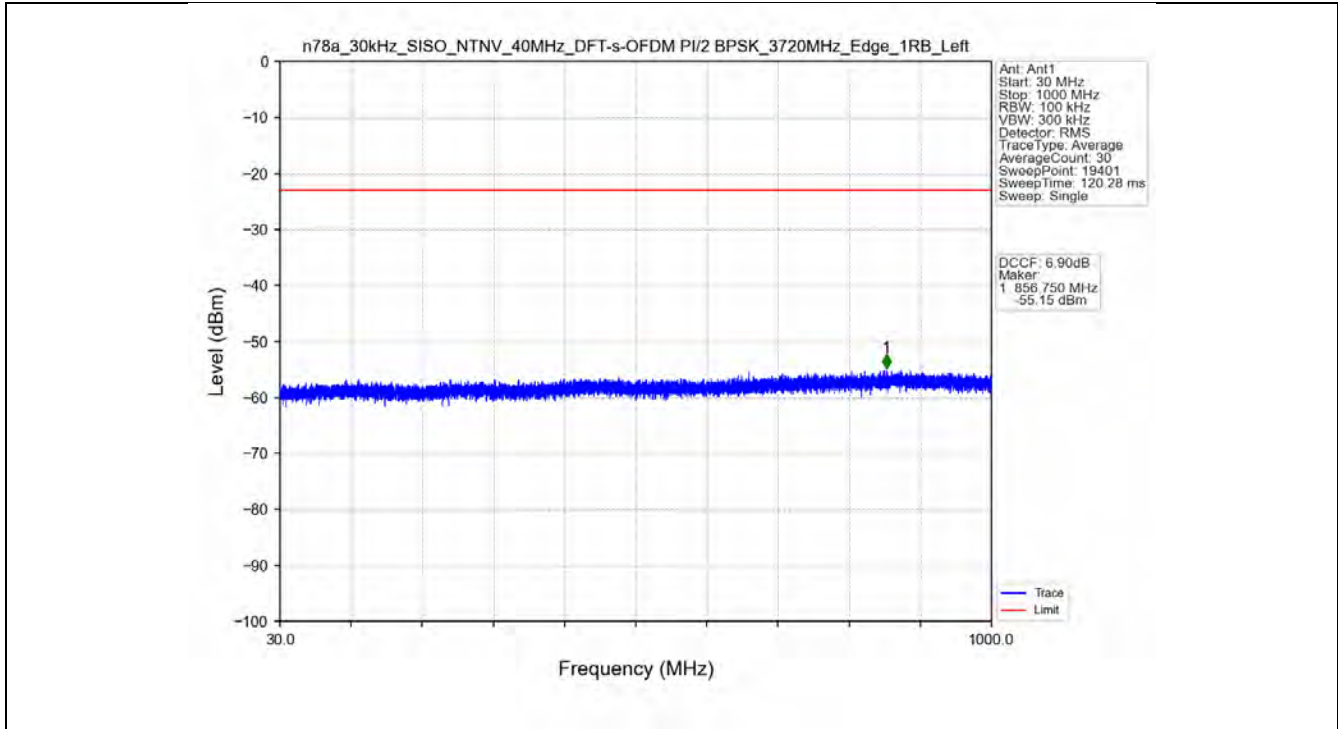


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Report No.: SZCR240100038409

Rev.: 01

Page: 690 of 1458



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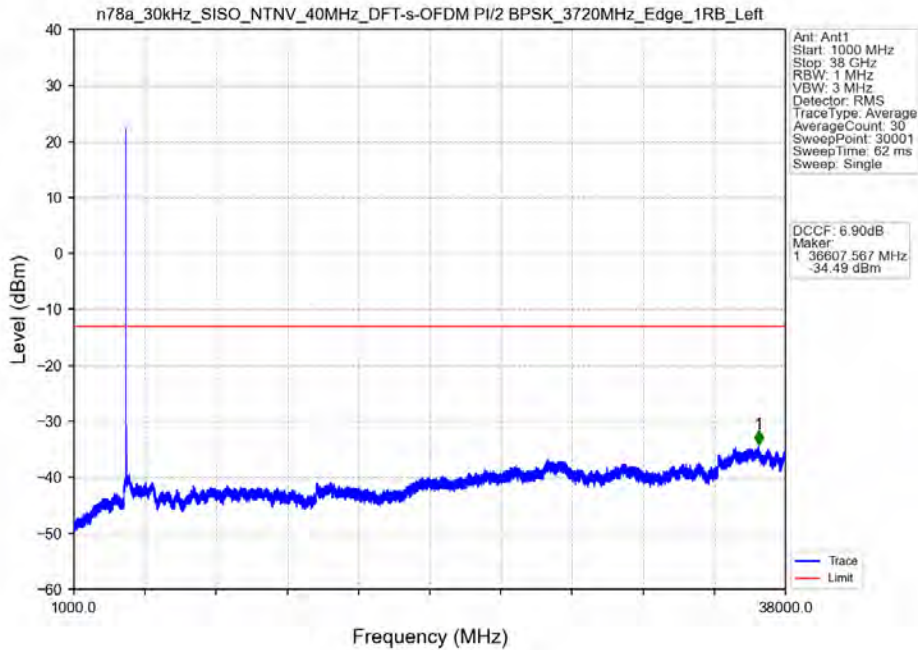
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Report No.: SZCR240100038409

Rev.: 01

Page: 691 of 1458

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n78a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3720MHz\_Outer\_Full



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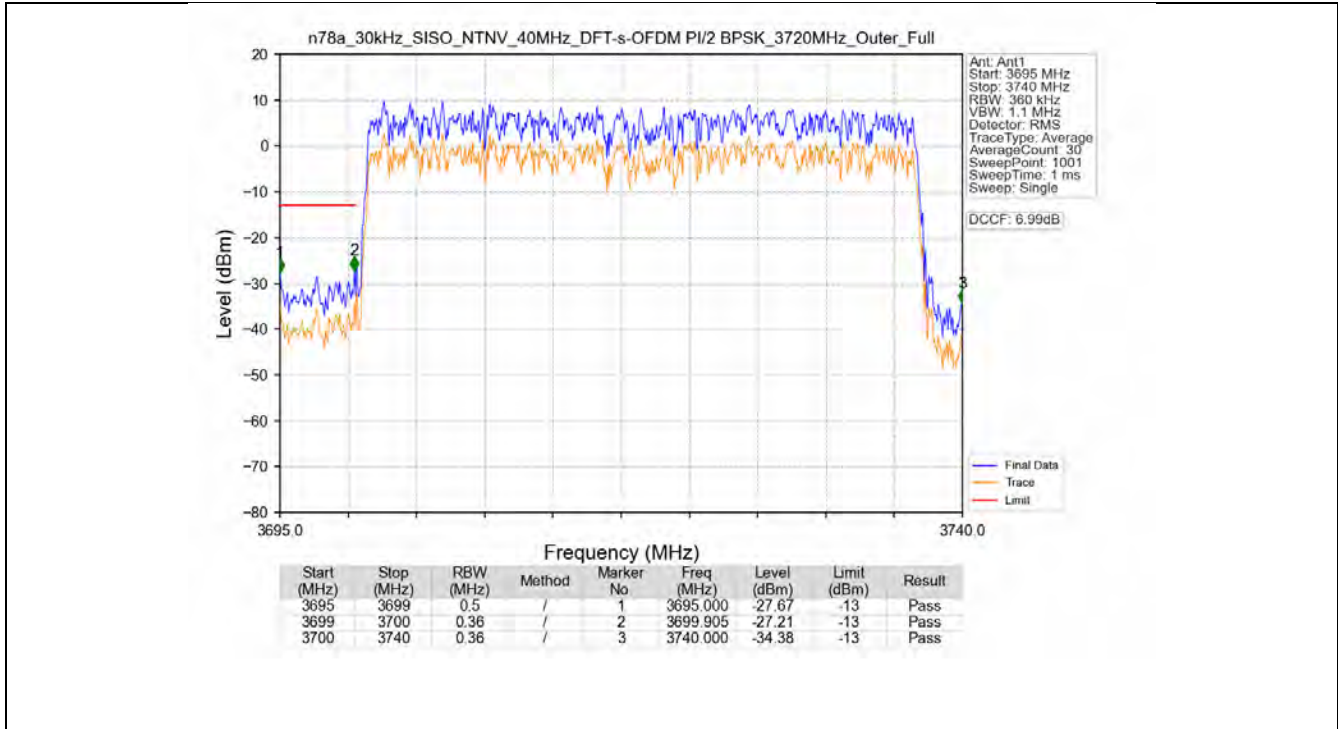


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Report No.: SZCR240100038409

Rev.: 01

Page: 692 of 1458



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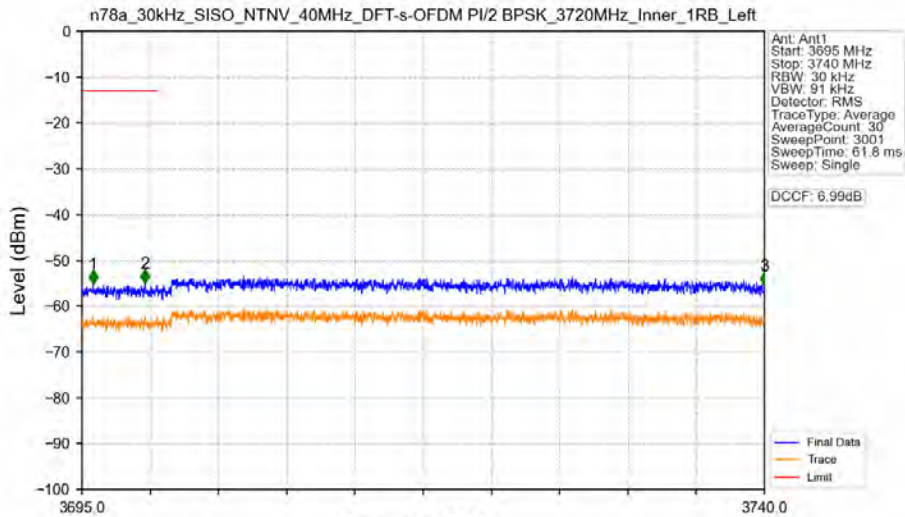
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Report No.: SZCR240100038409

Rev.: 01

Page: 693 of 1458

n78a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3720MHz\_Inner\_1RB\_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3699	0.5	/	1	3695.720	-55.20	-13	Pass
3699	3700	0.03	/	2	3699.155	-55.11	-13	Pass
3700	3740	0.03	/	3	3740.000	-55.62	-13	Pass

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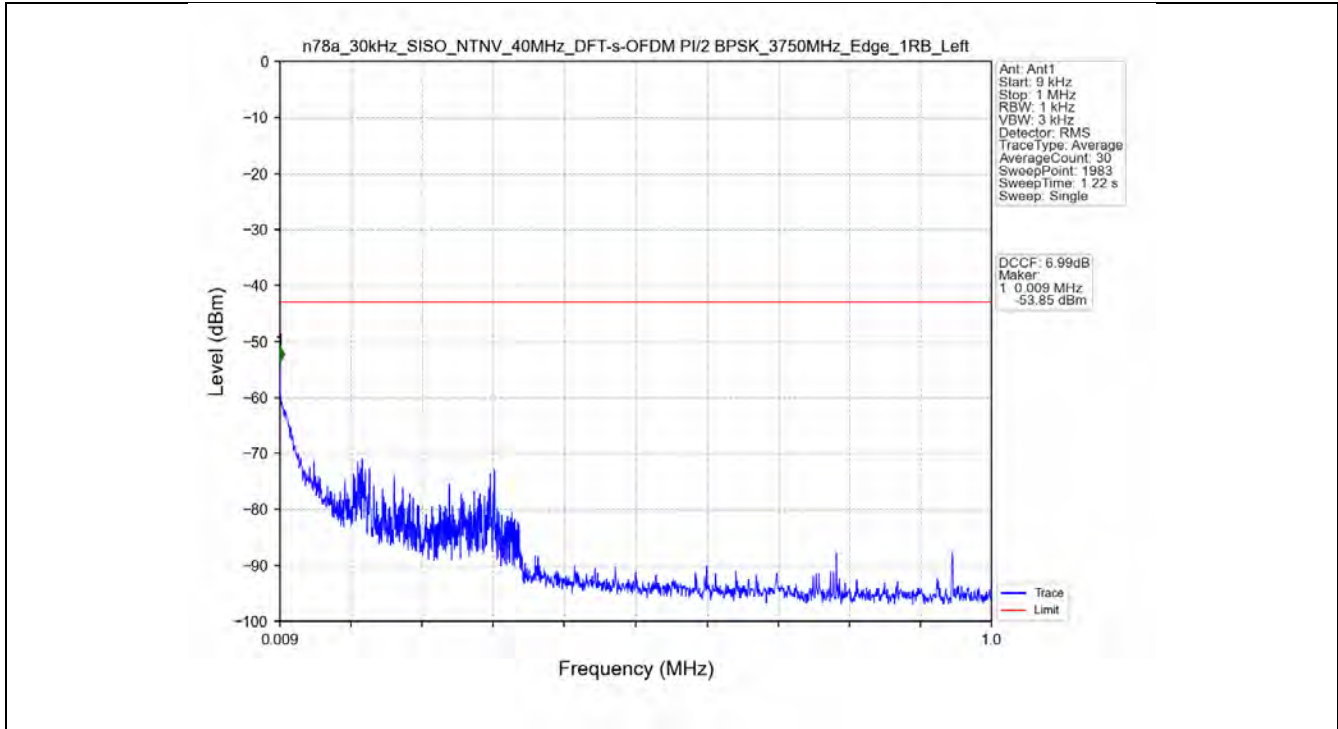


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Rev.: 01

Page: 694 of 1458



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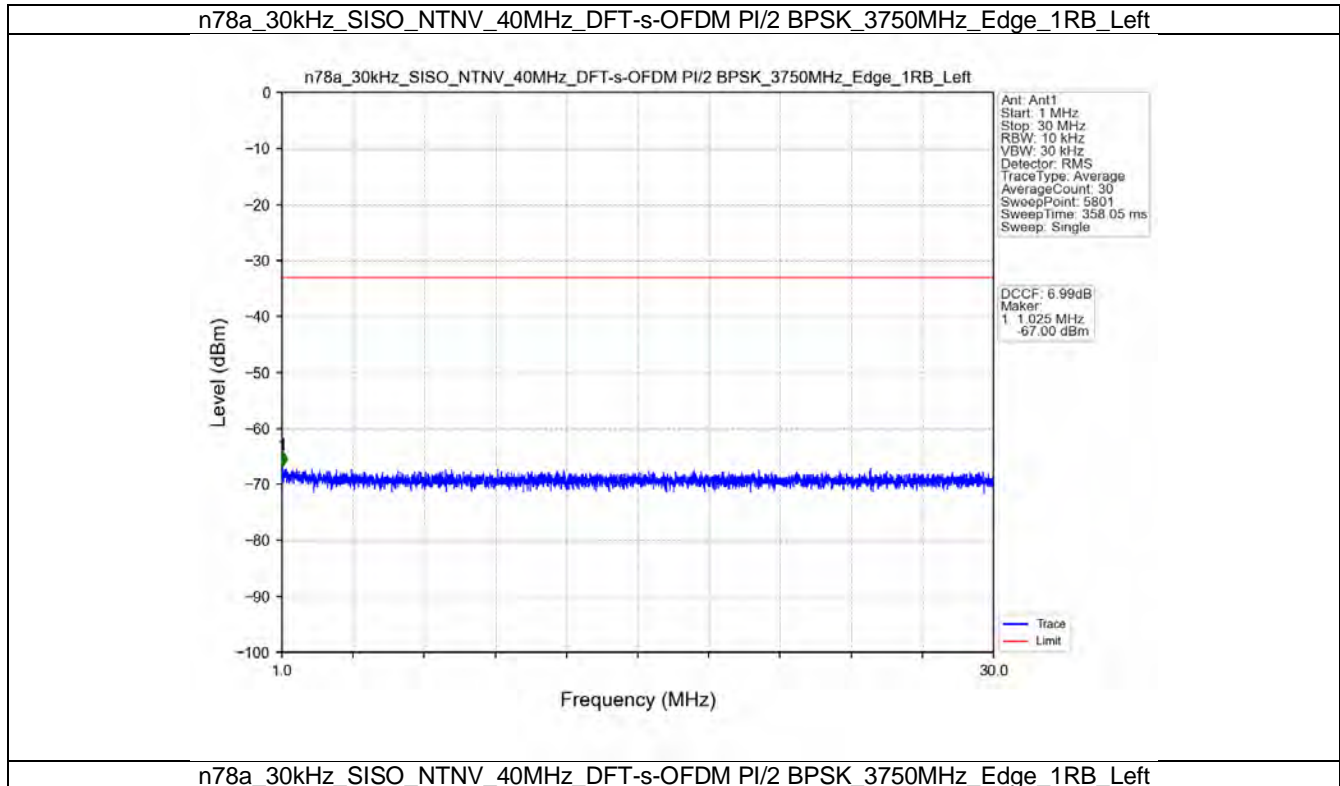


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Report No.: SZCR240100038409

Rev.: 01

Page: 695 of 1458



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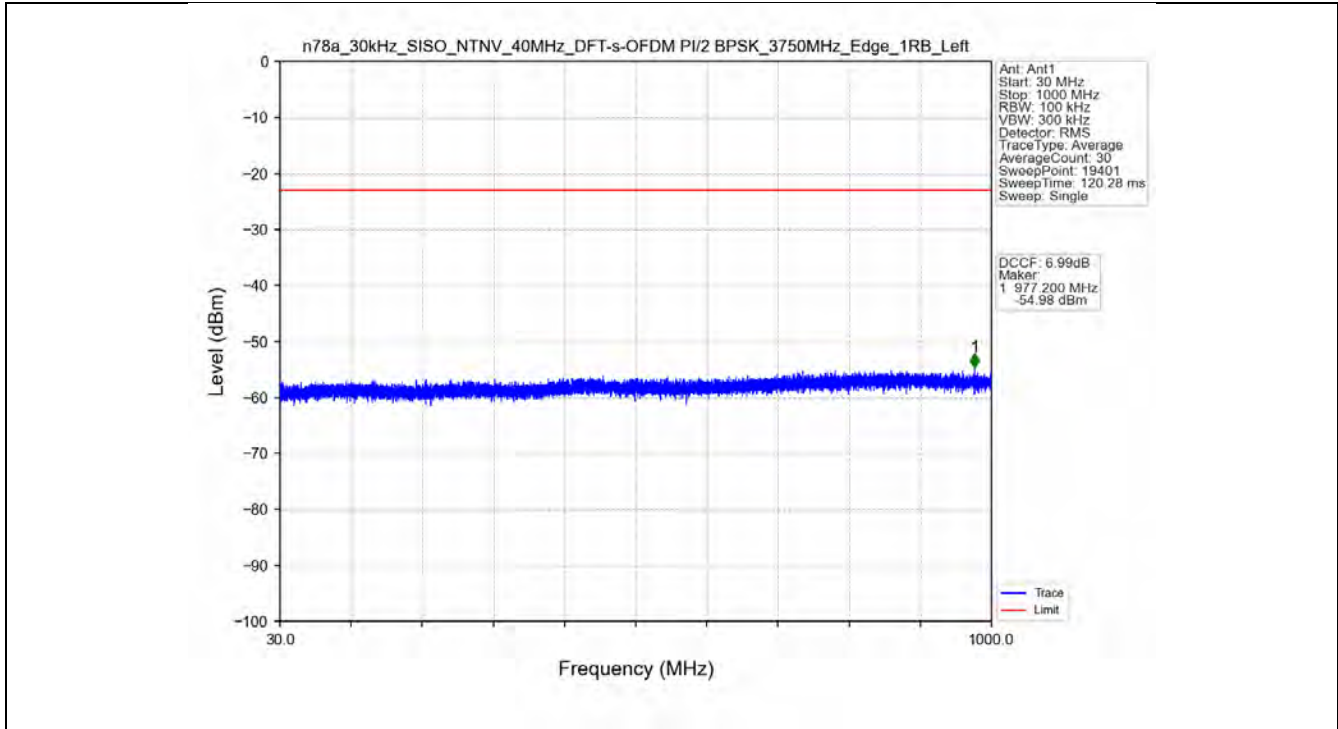


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Page: 696 of 1458



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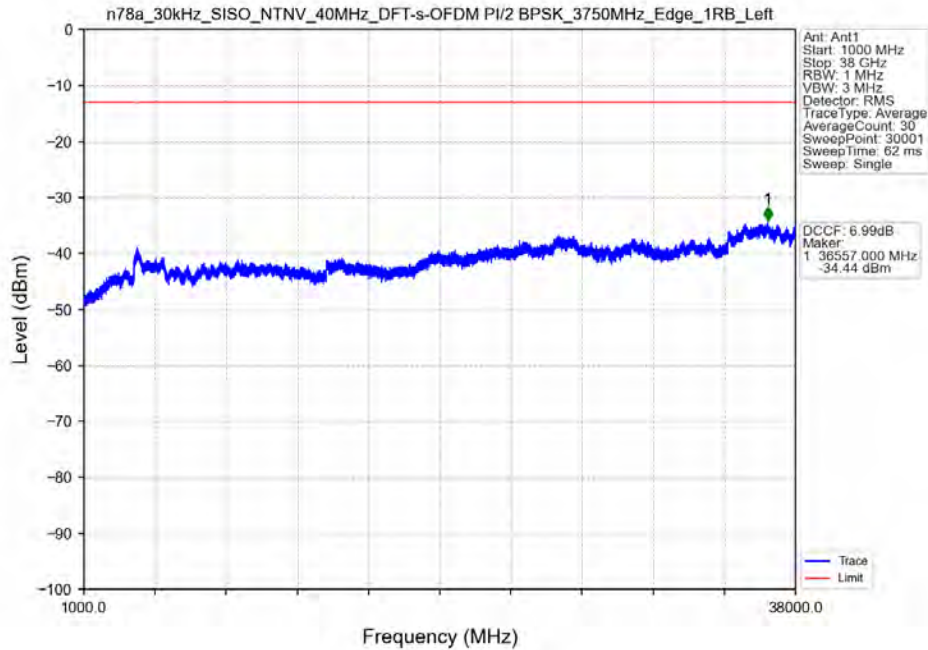
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Report No.: SZCR240100038409

Rev.: 01

Page: 697 of 1458

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n78a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3780MHz\_Edge\_1RB\_Right



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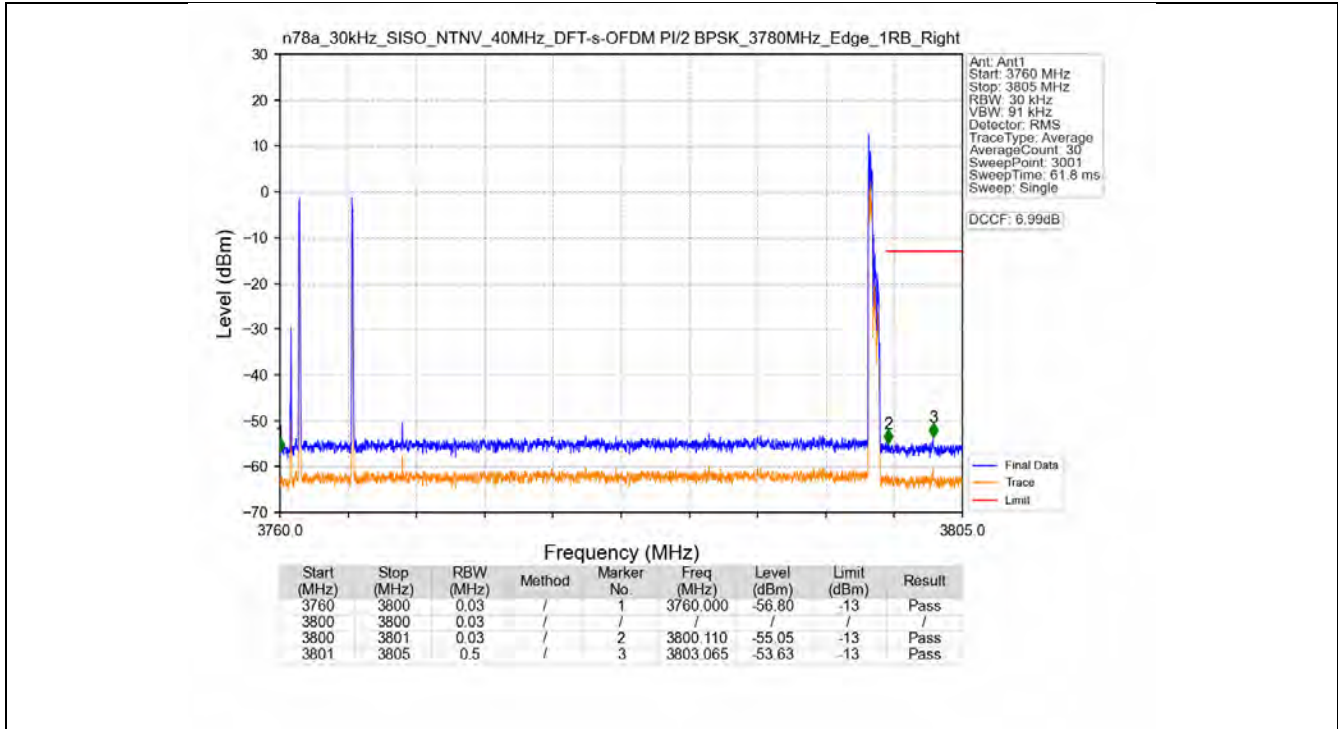


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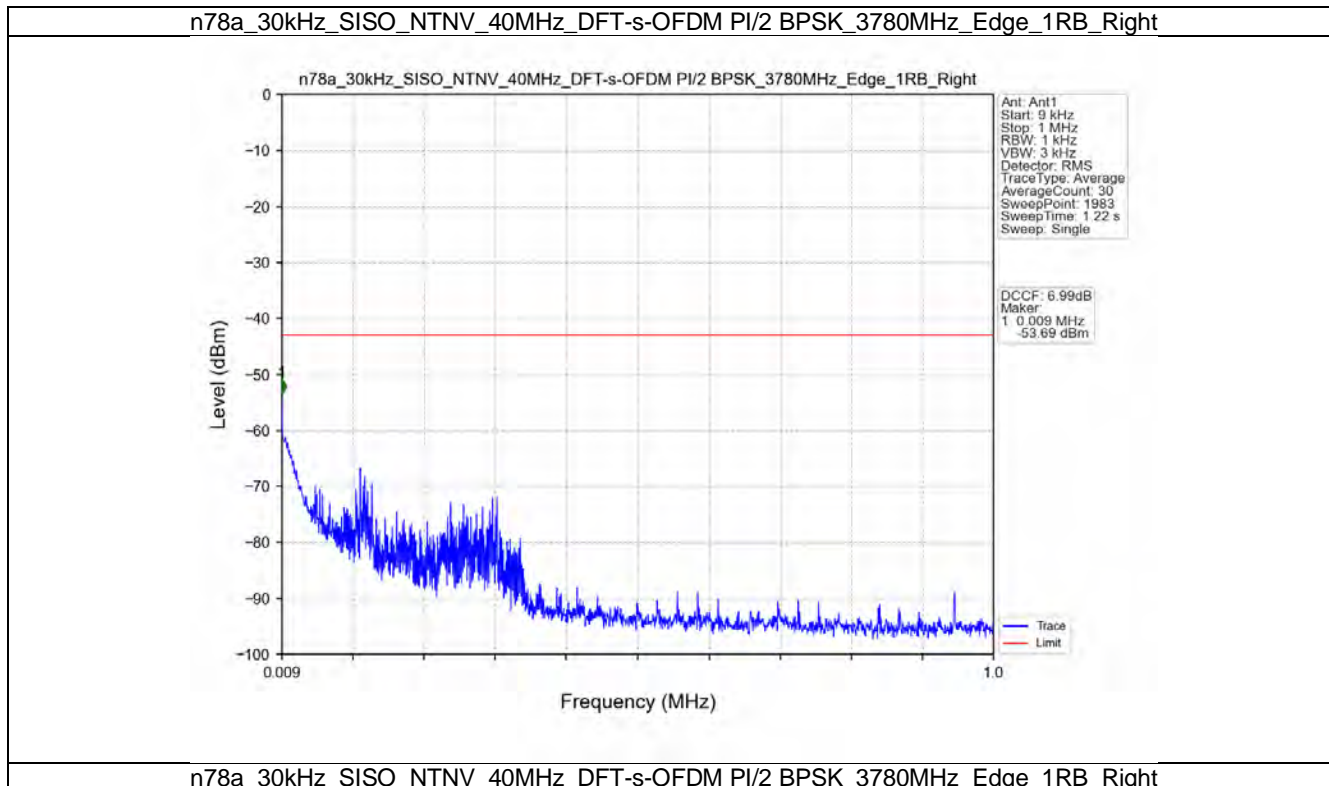
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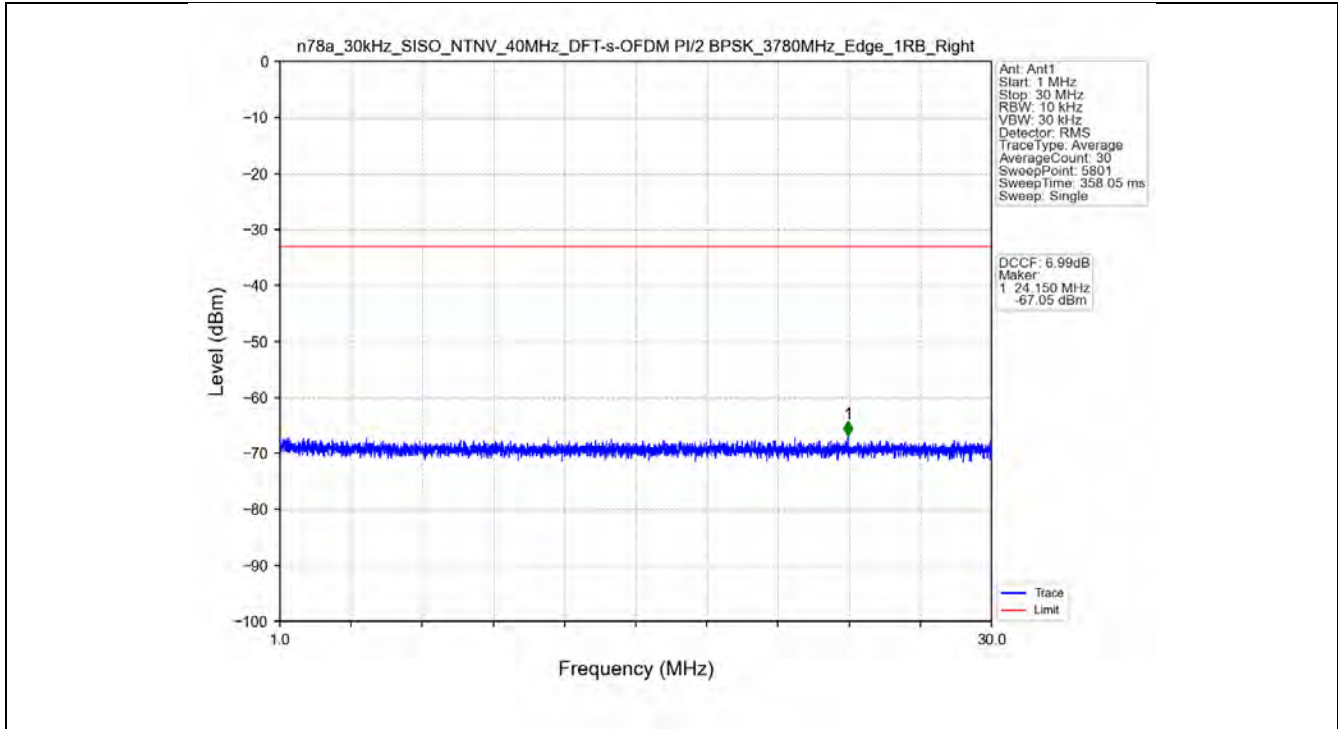


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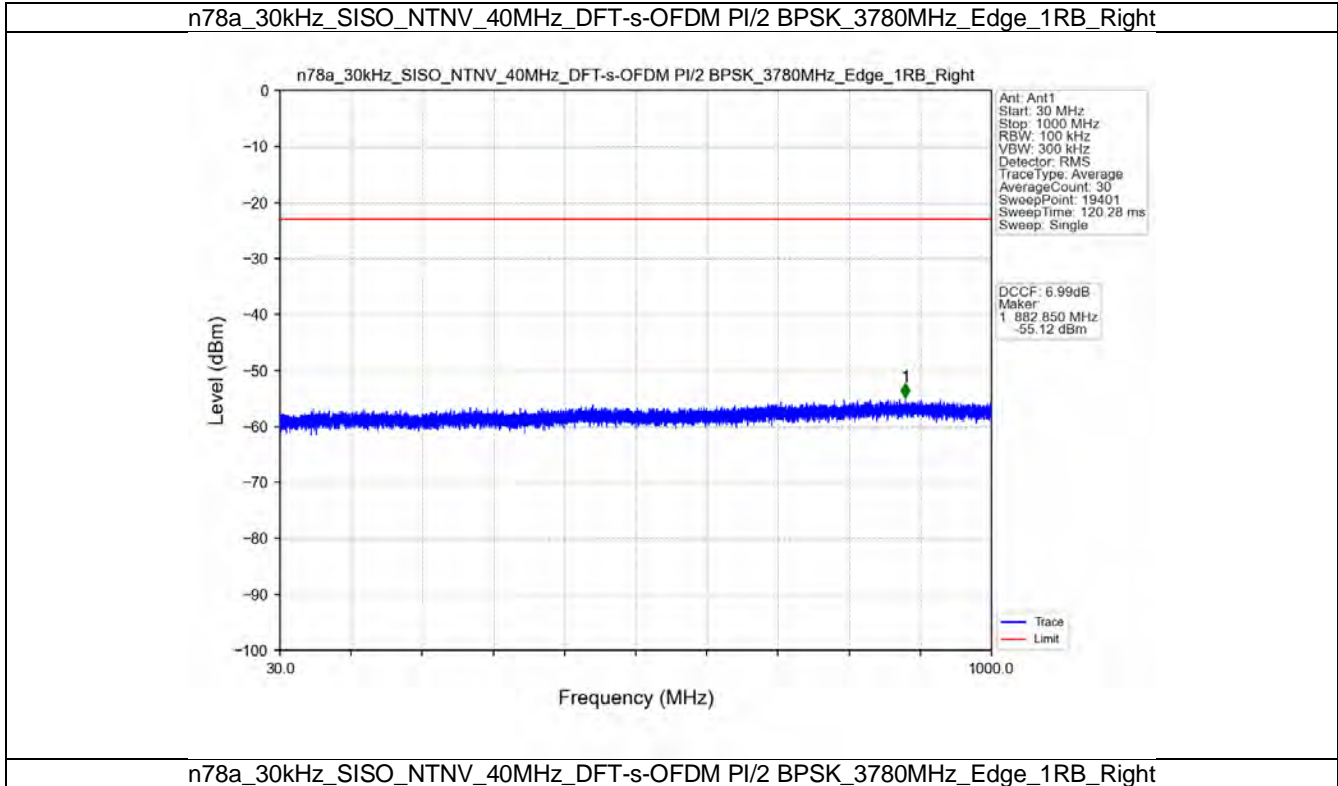


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Rev.: 01

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