

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

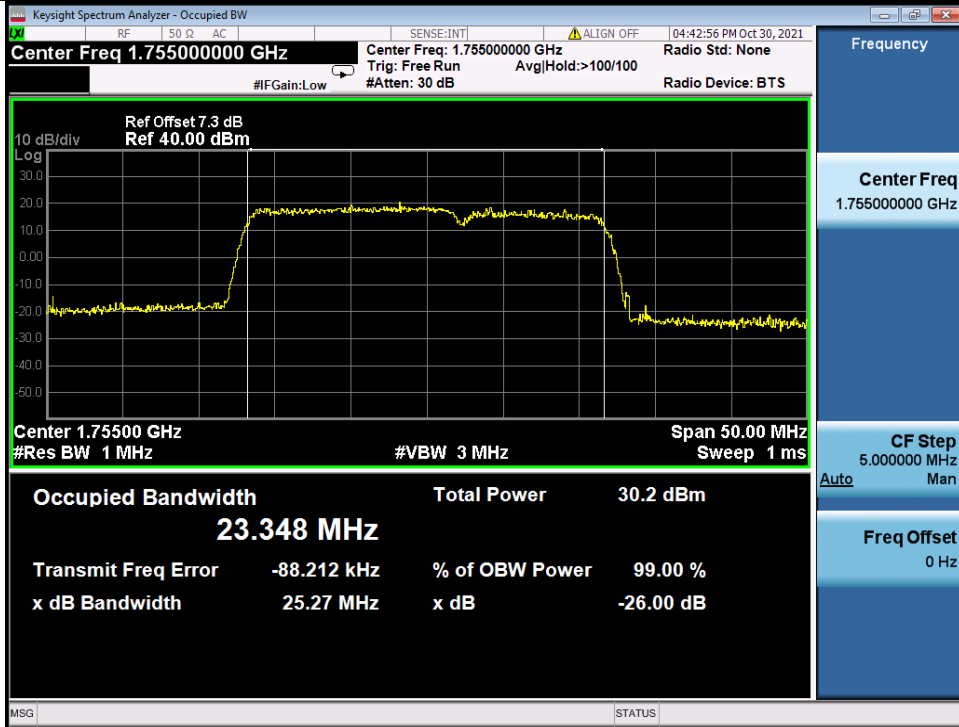
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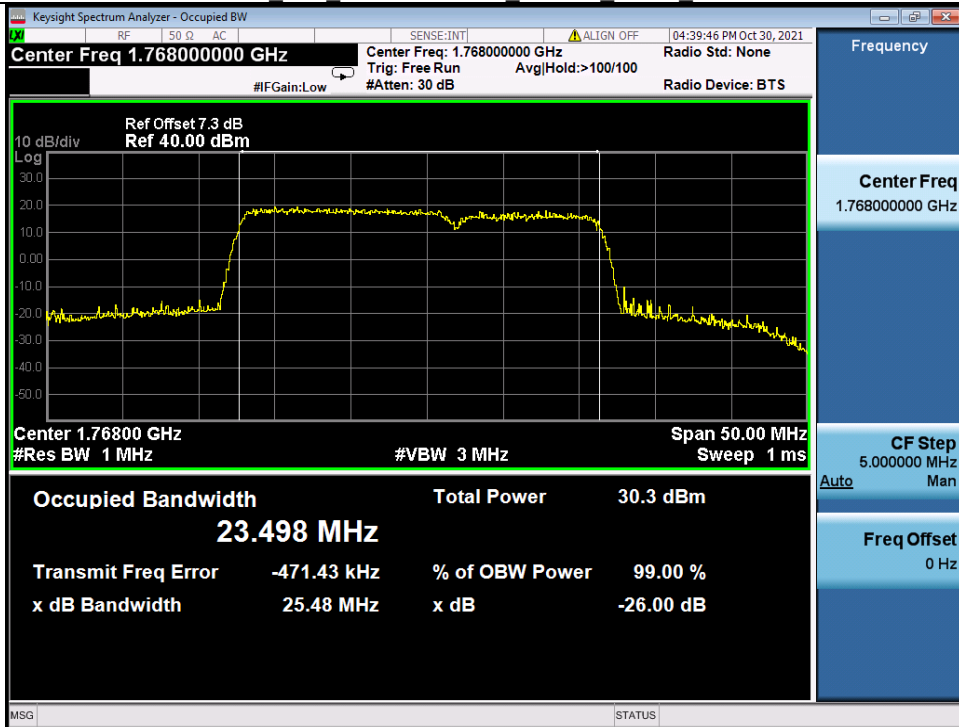
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



Band 66C 15MHz+10MHz 16QAM MCH NTN



Band 66C 15MHz+10MHz 16QAM HCH NTN



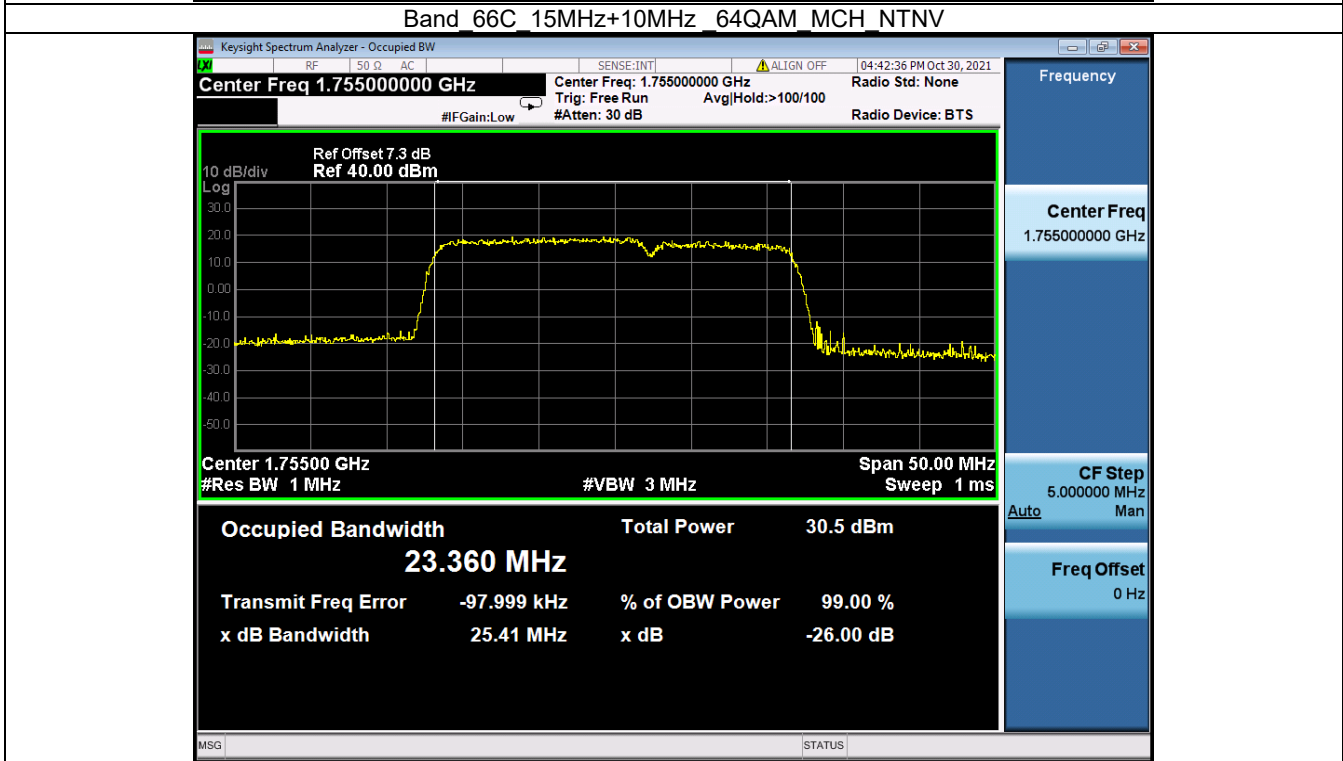
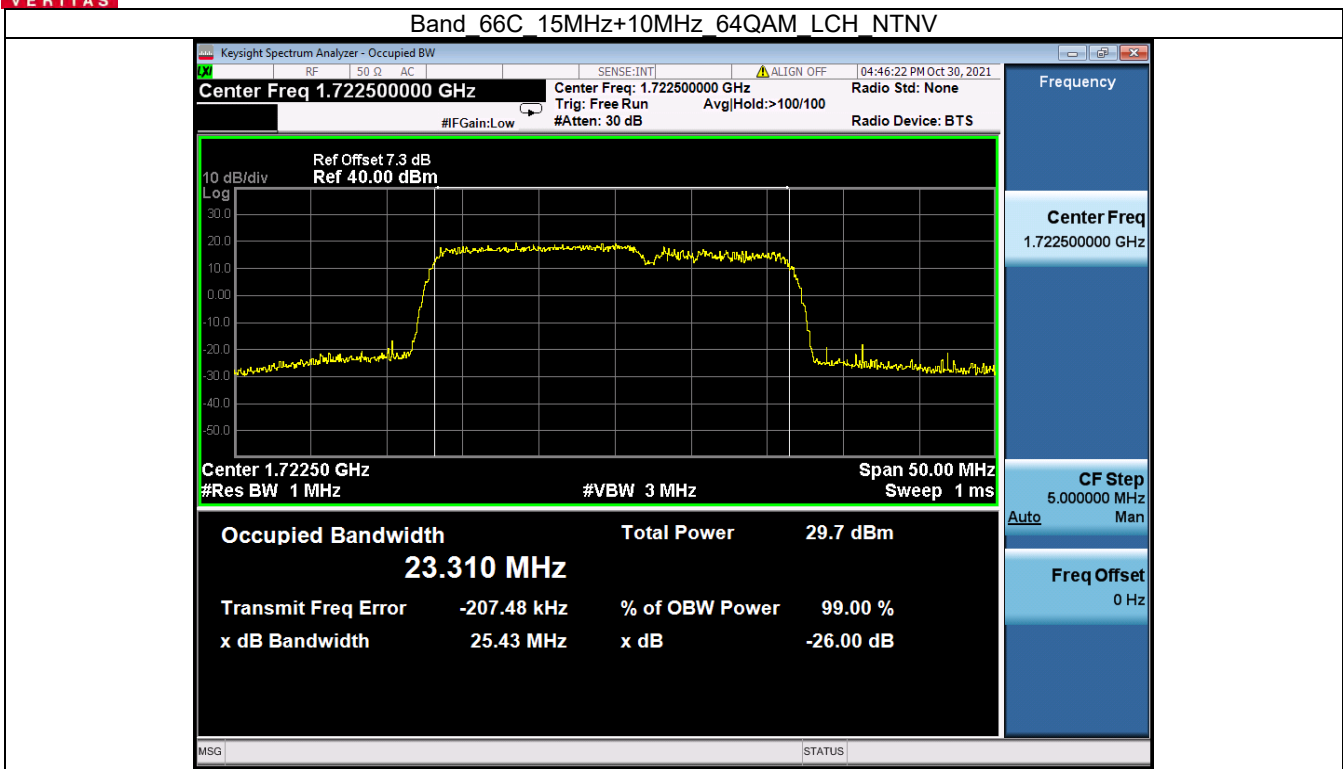
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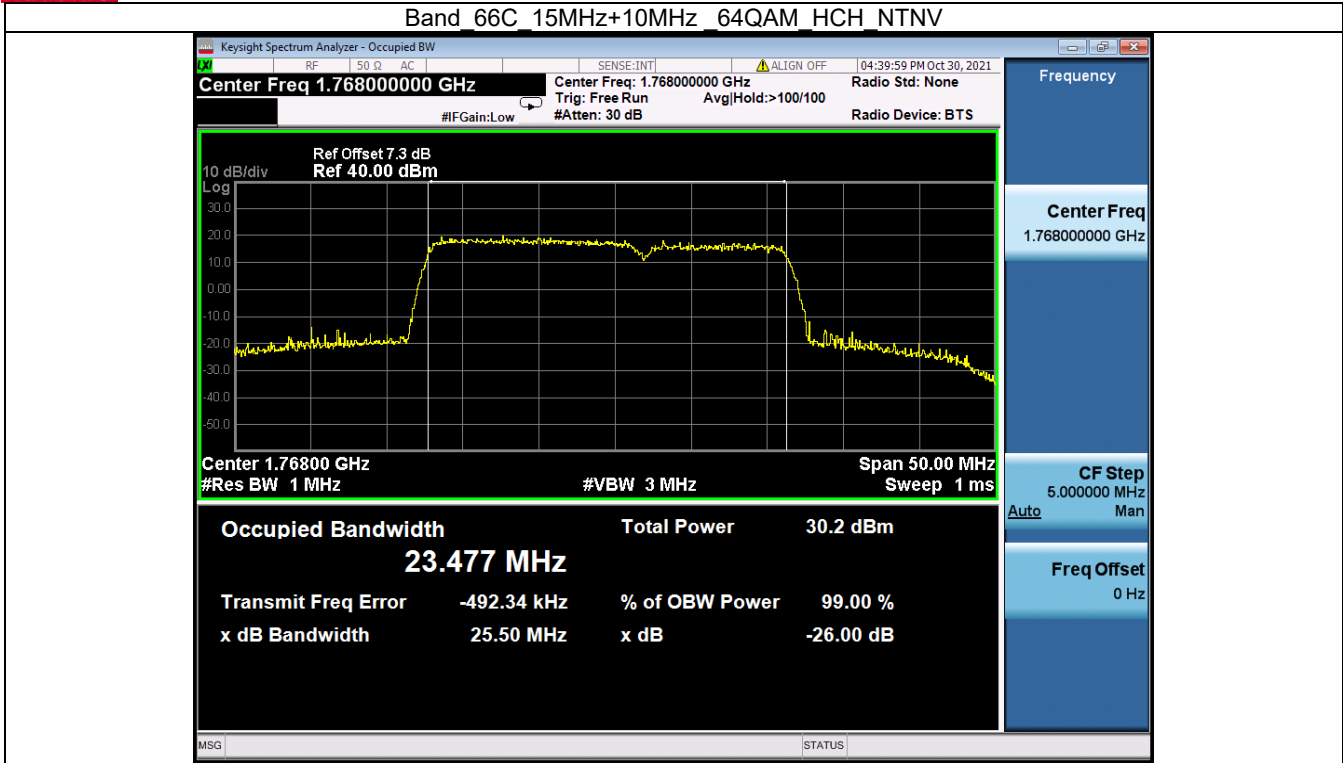
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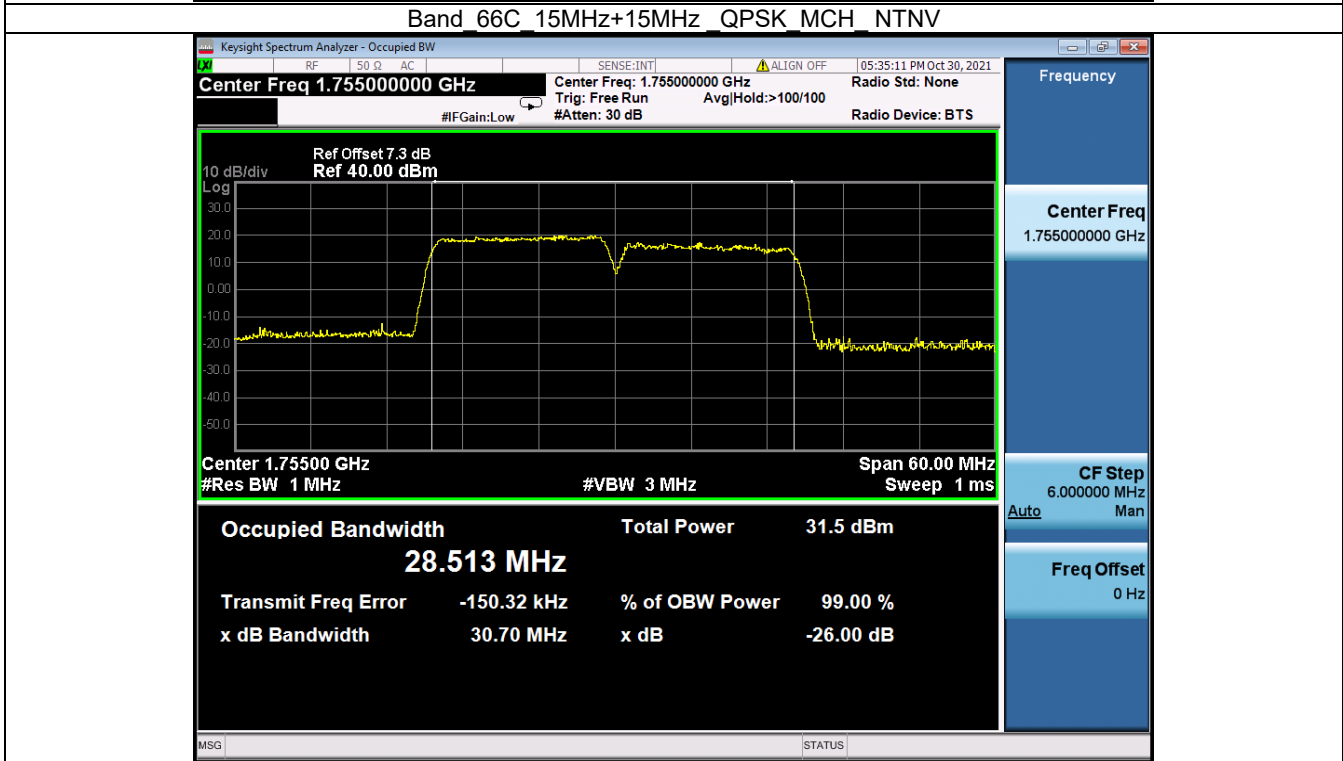
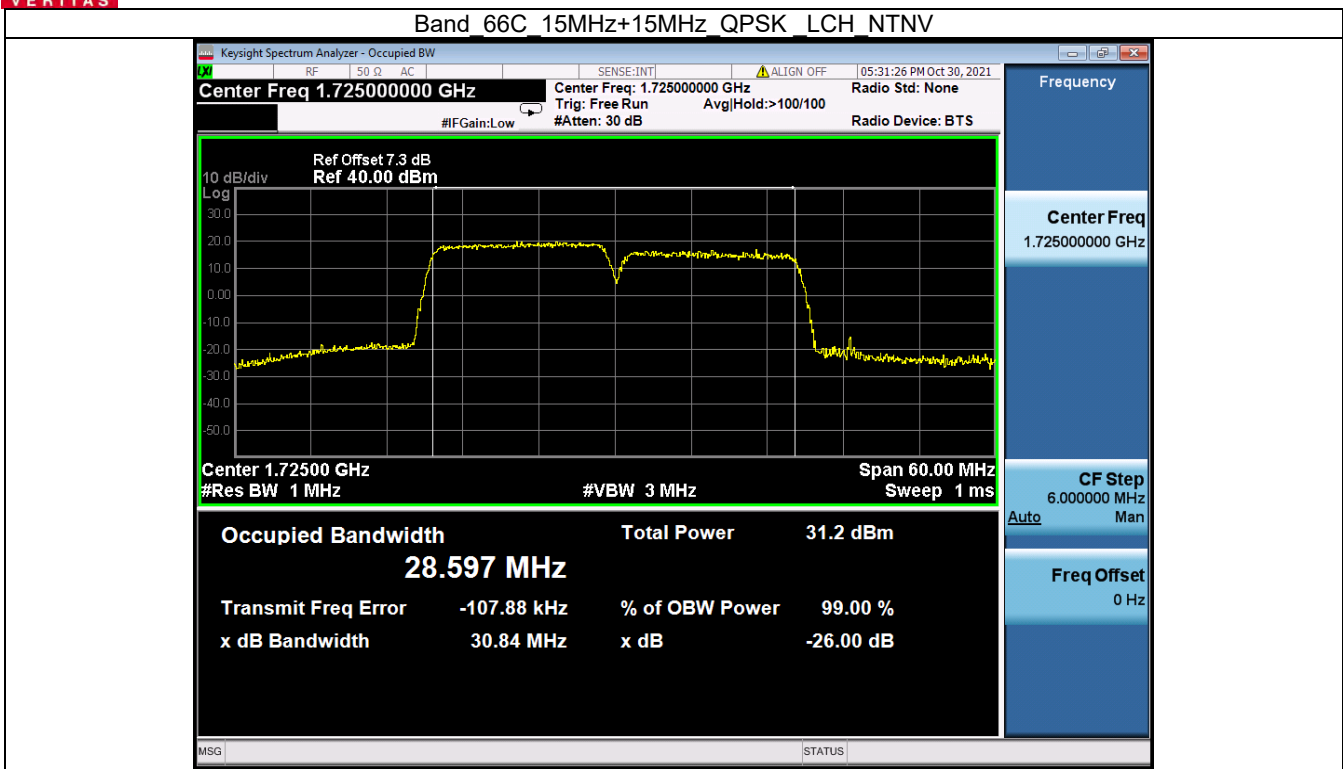
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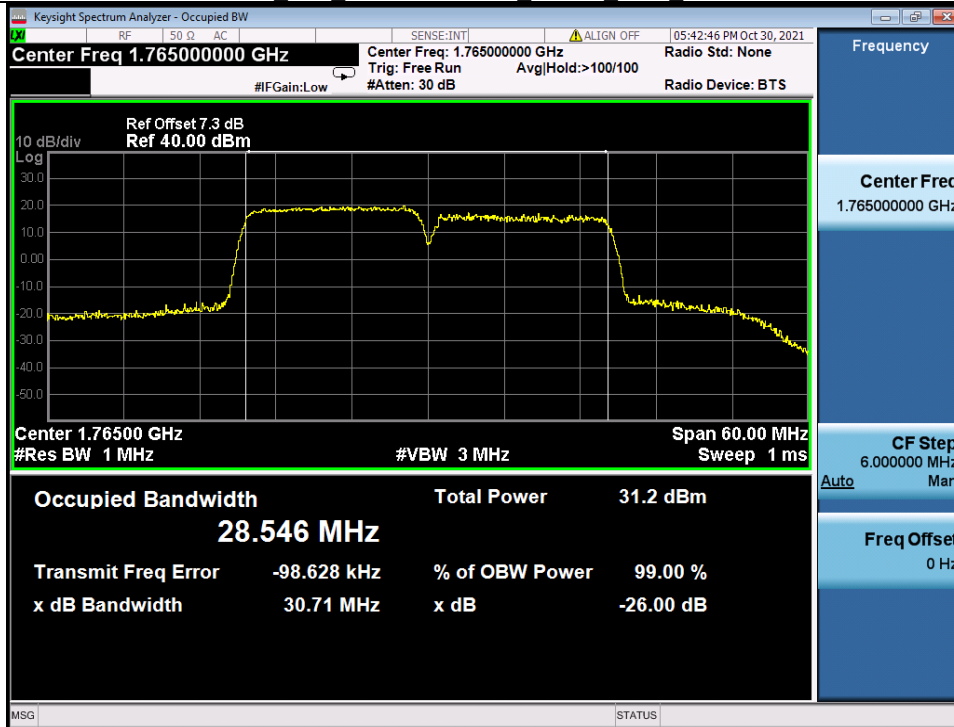
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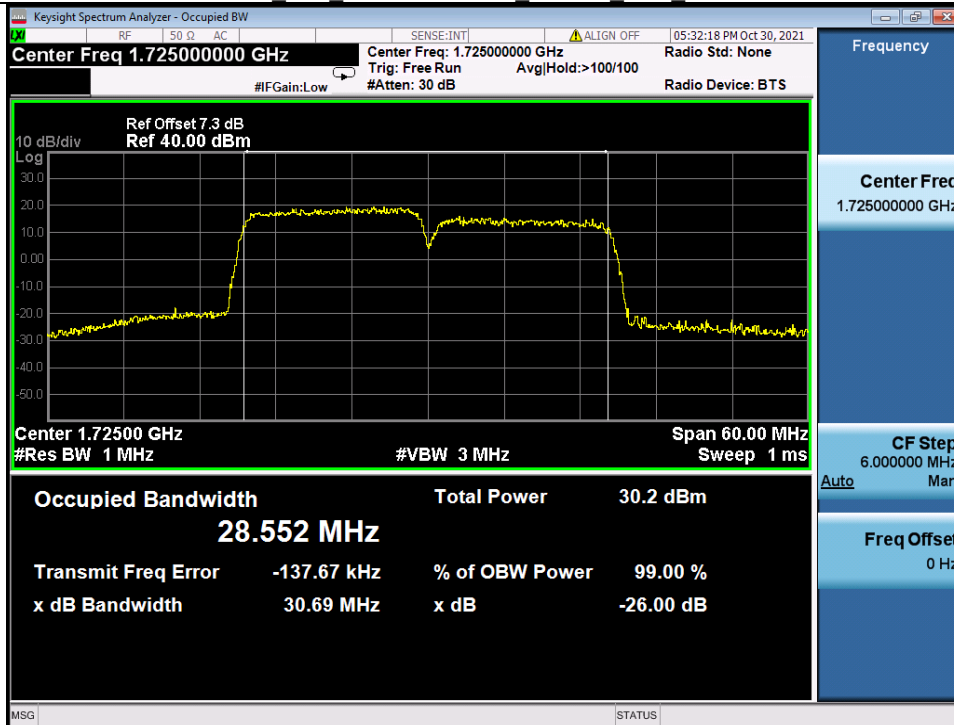
**BUREAU**  
**VERITAS**

**Test Report No.: W7L-P20210616-3RF03**

**Band 66C 15MHz+15MHz QPSK HCH NTN**



**Band 66C 15MHz+15MHz 16QAM LCH NTN**



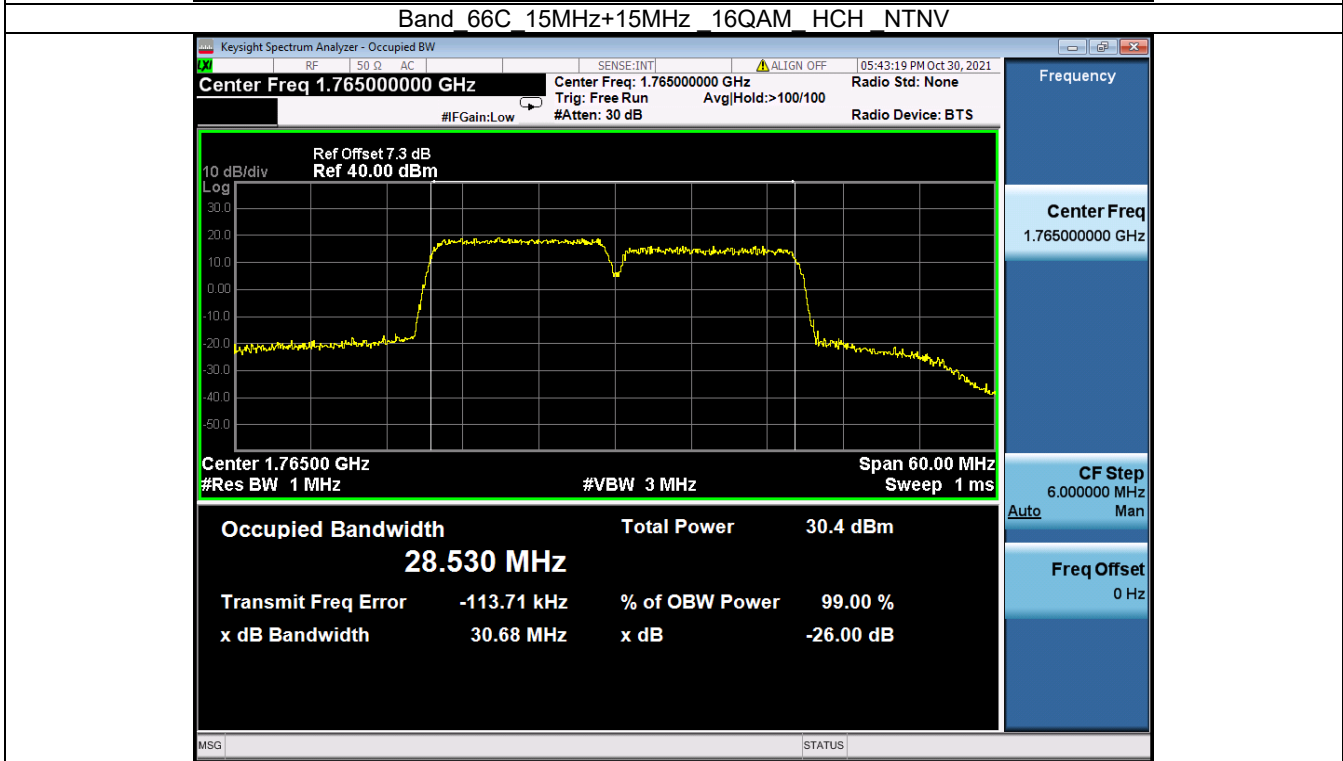
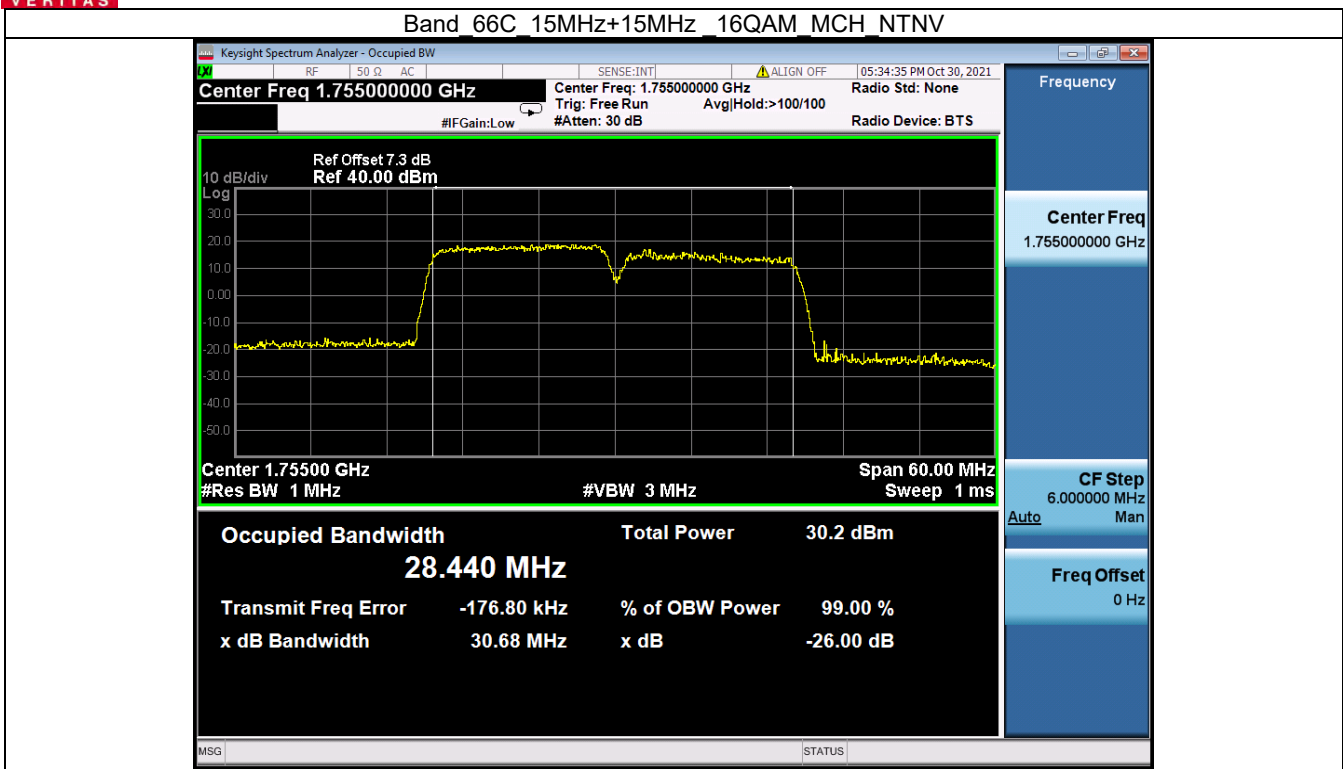
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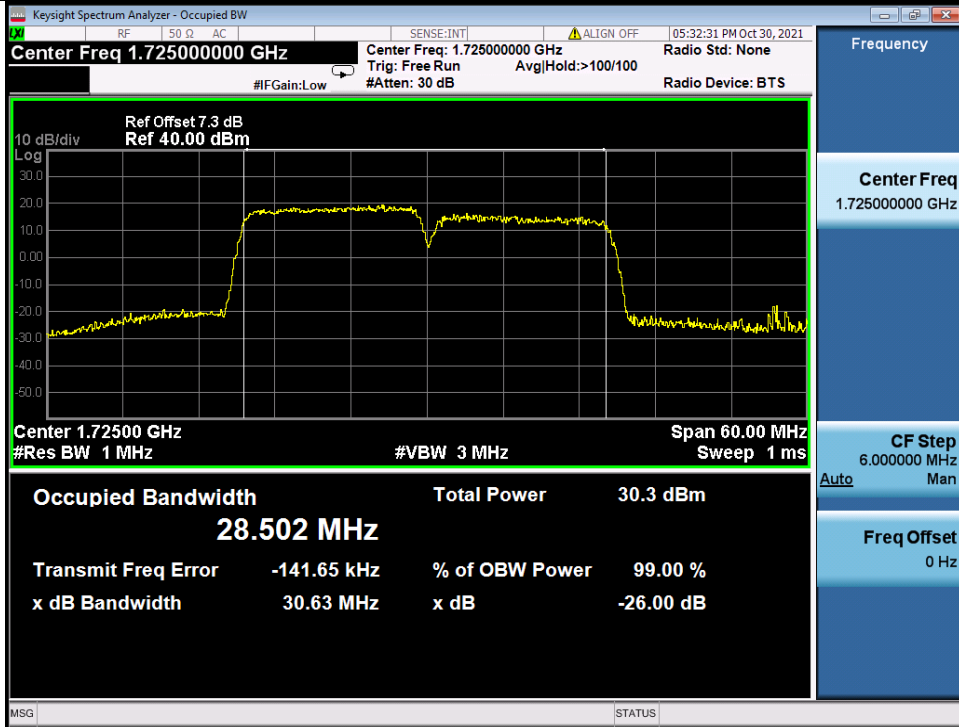
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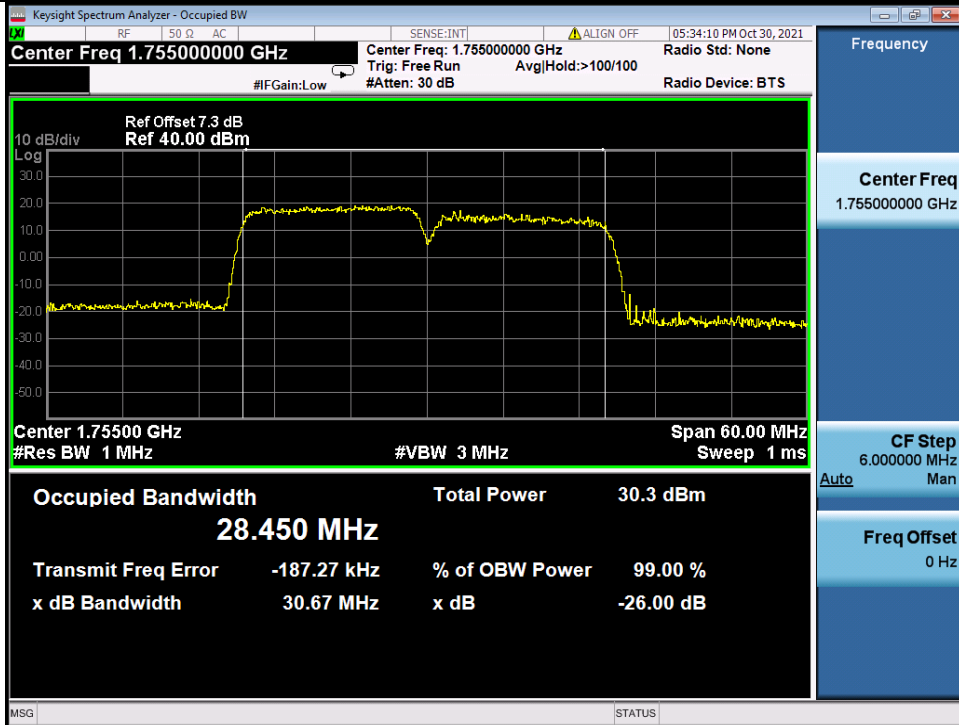
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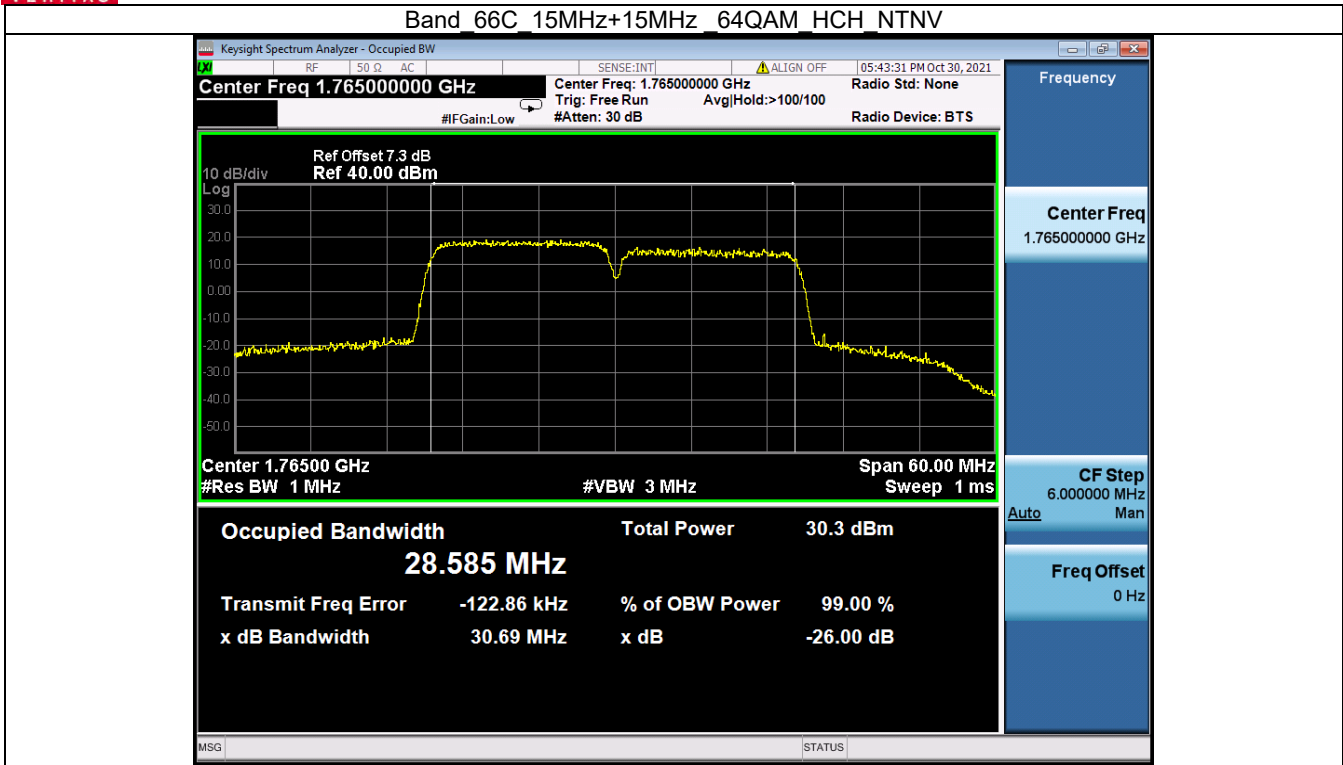
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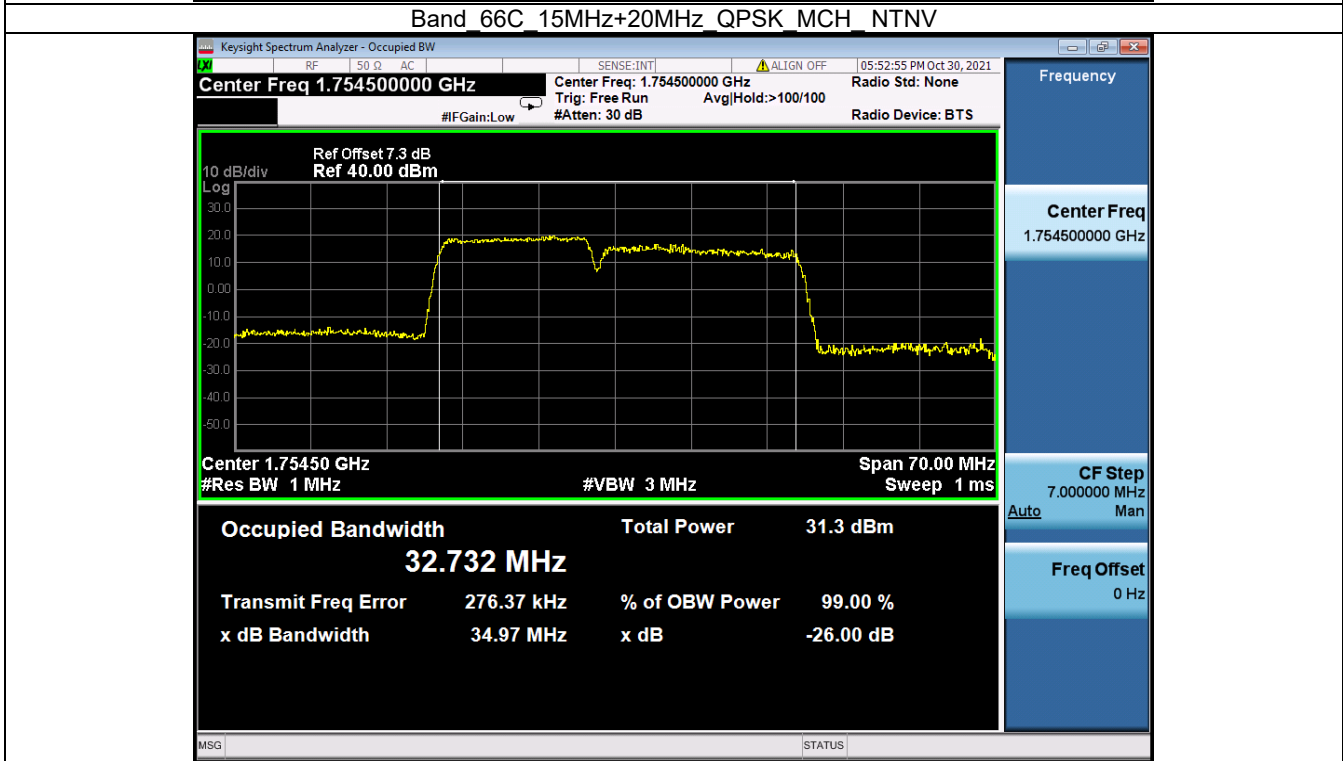
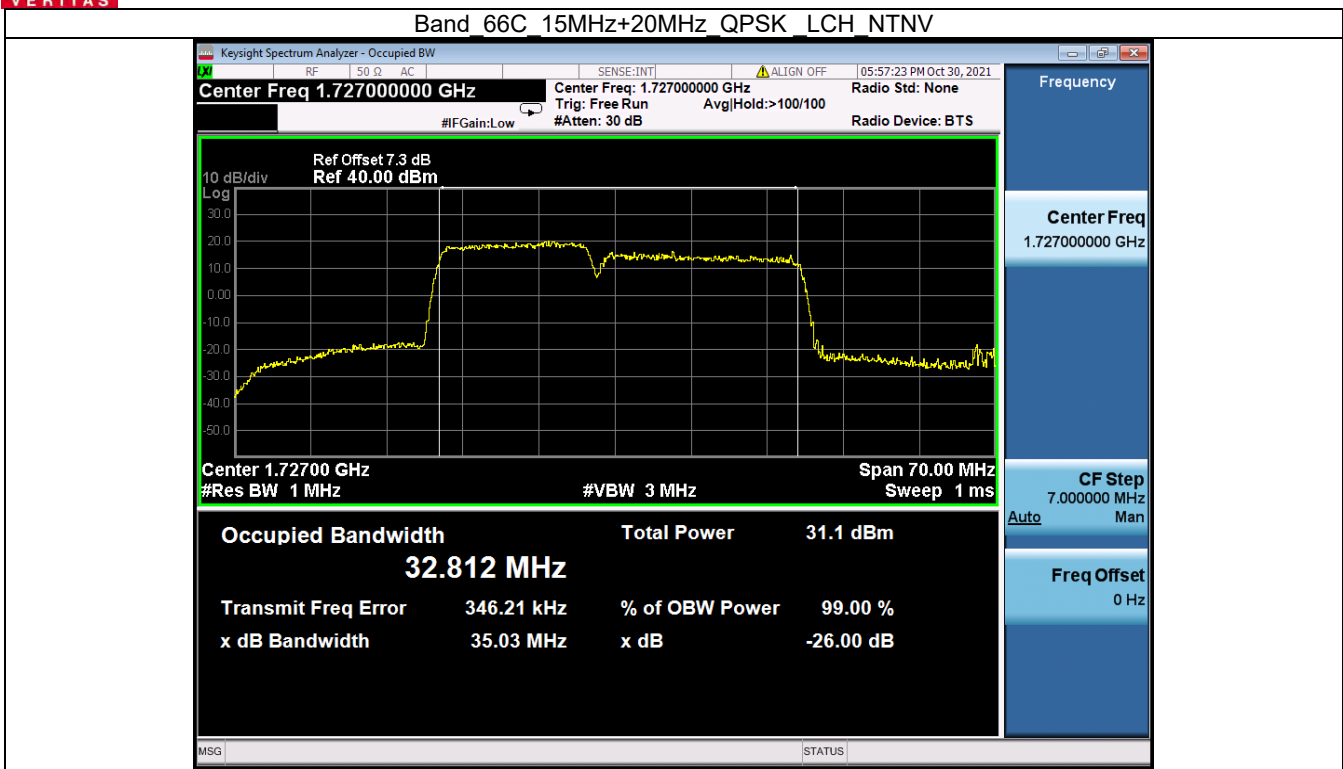
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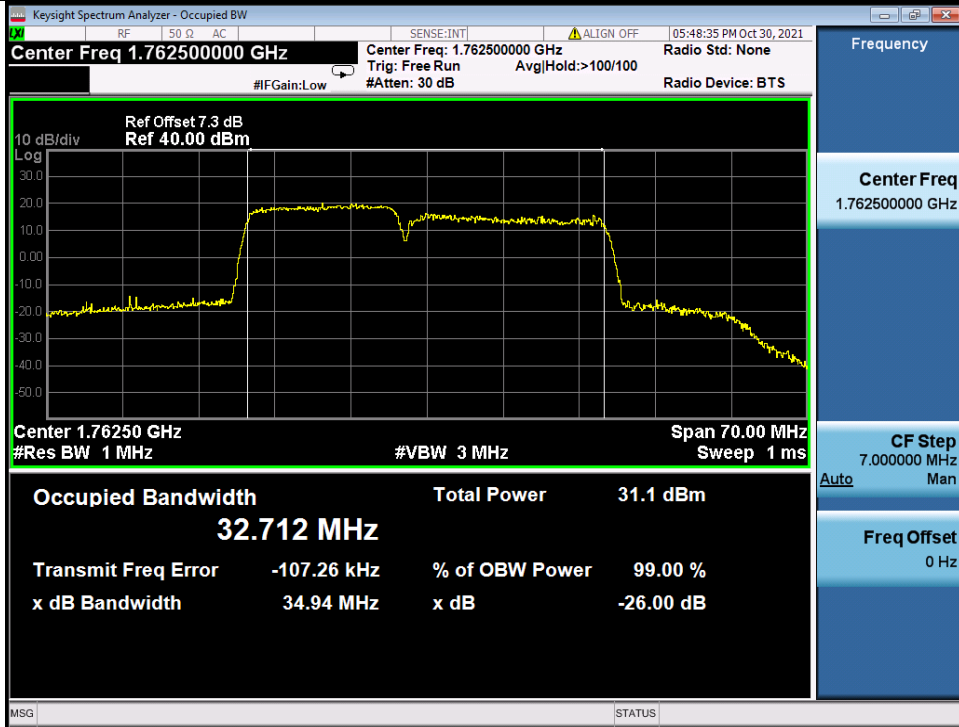
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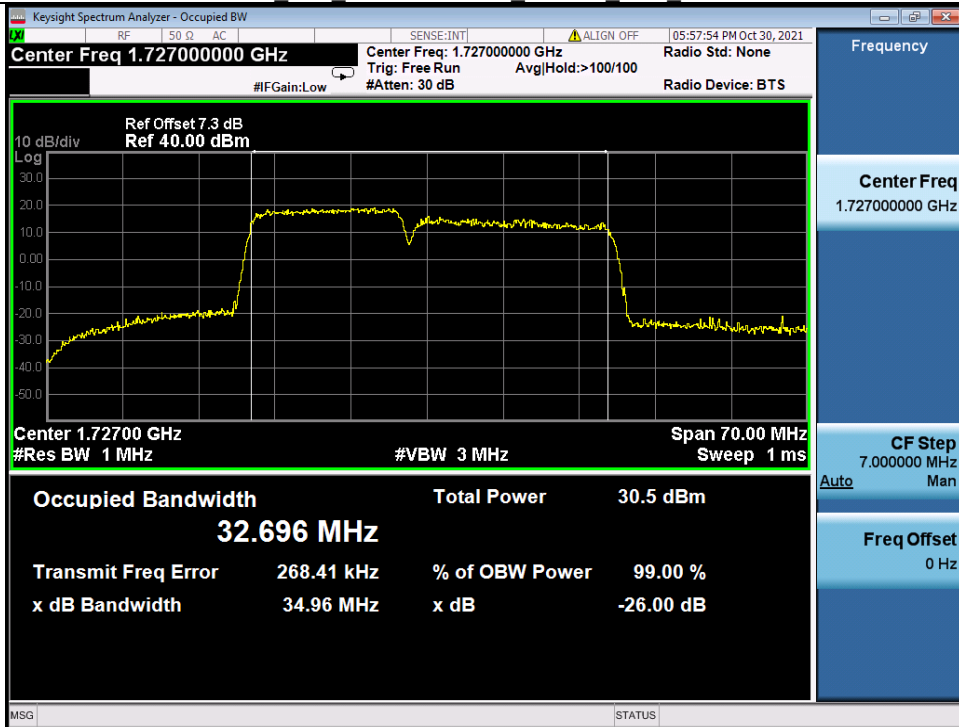
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Band 66C 15MHz+20MHz QPSK\_HCH NTN



Band 66C 15MHz+20MHz 16QAM LCH NTN



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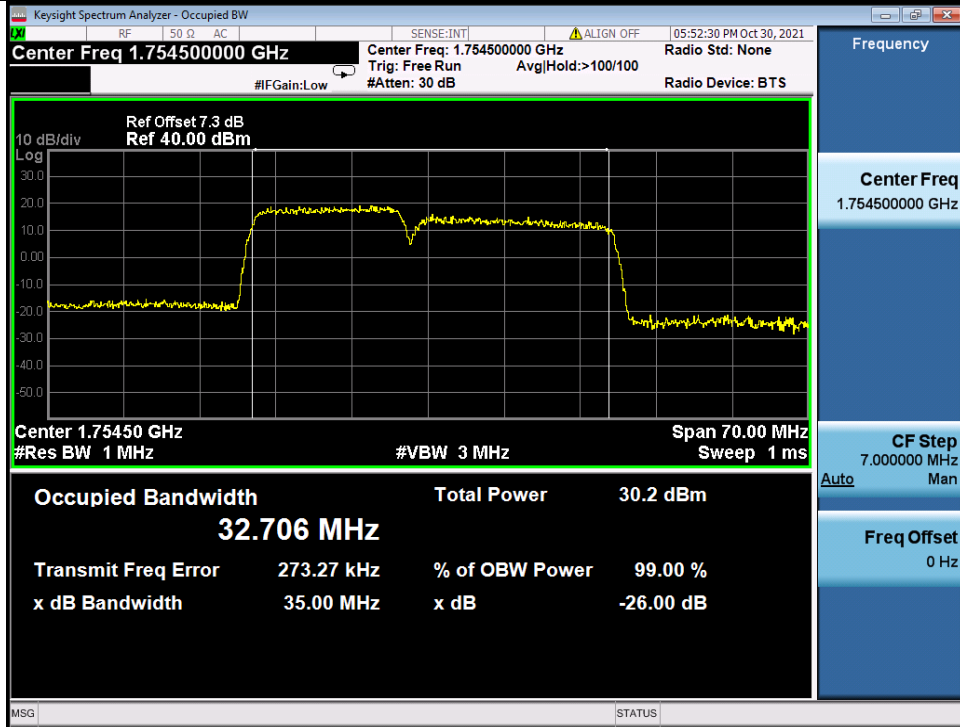
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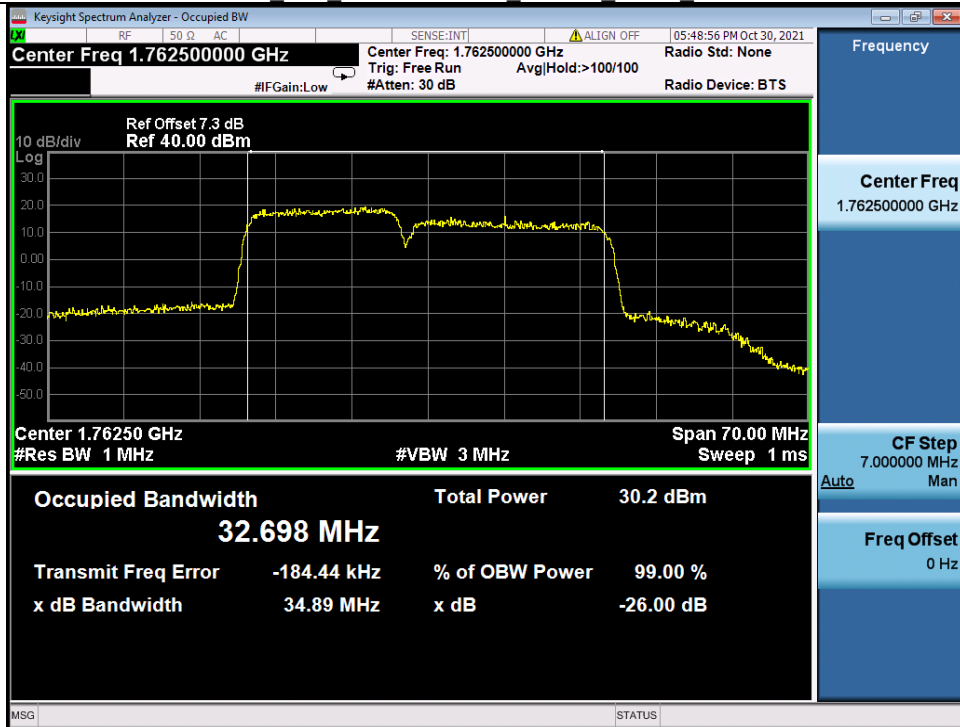
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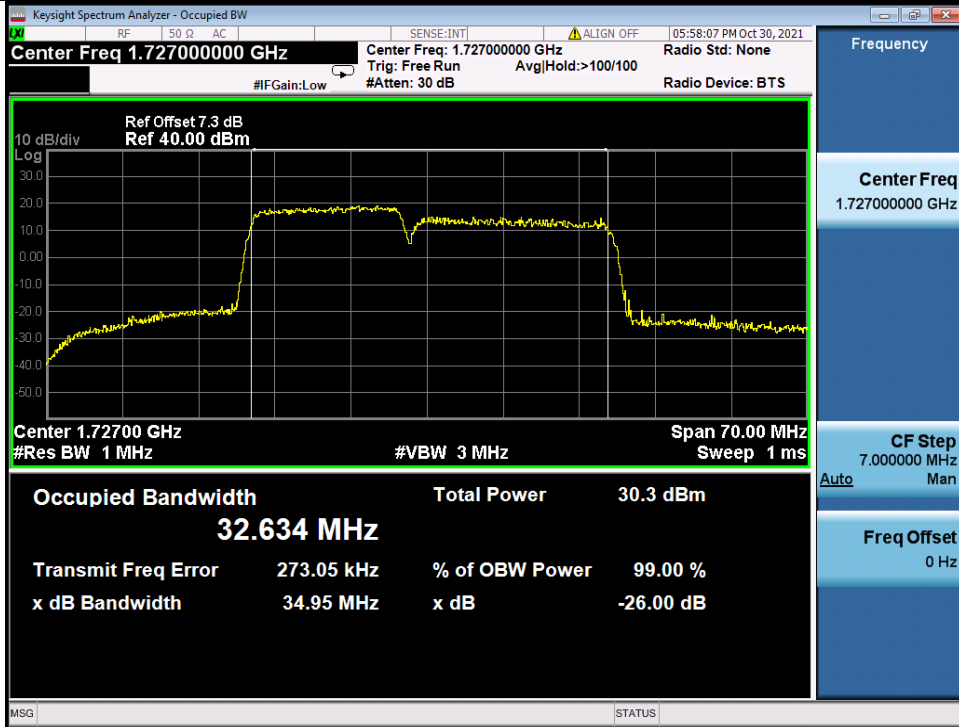
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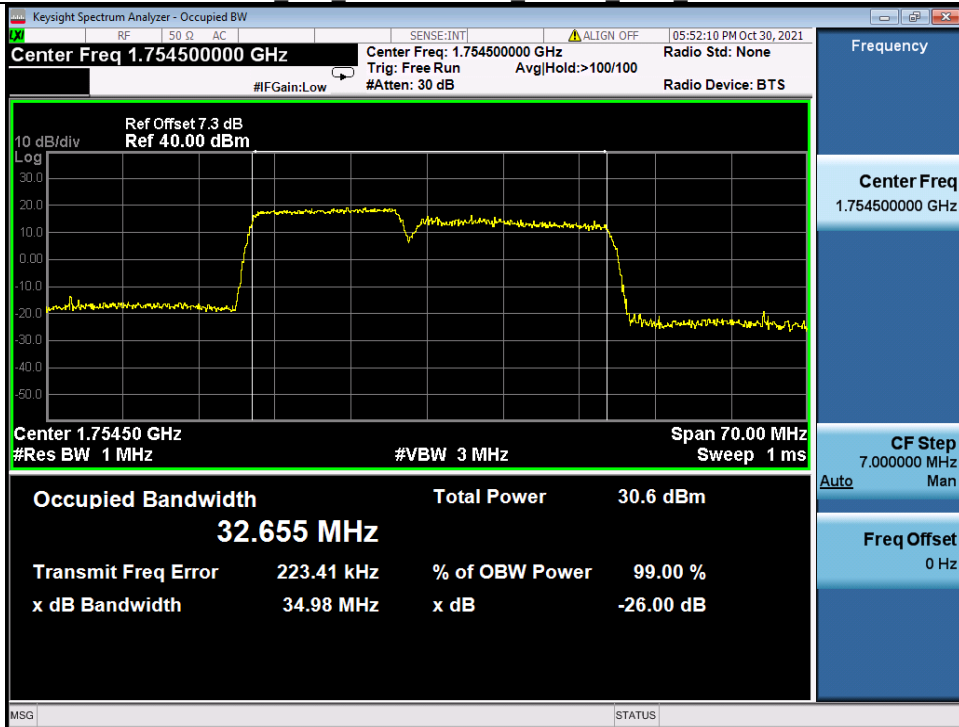
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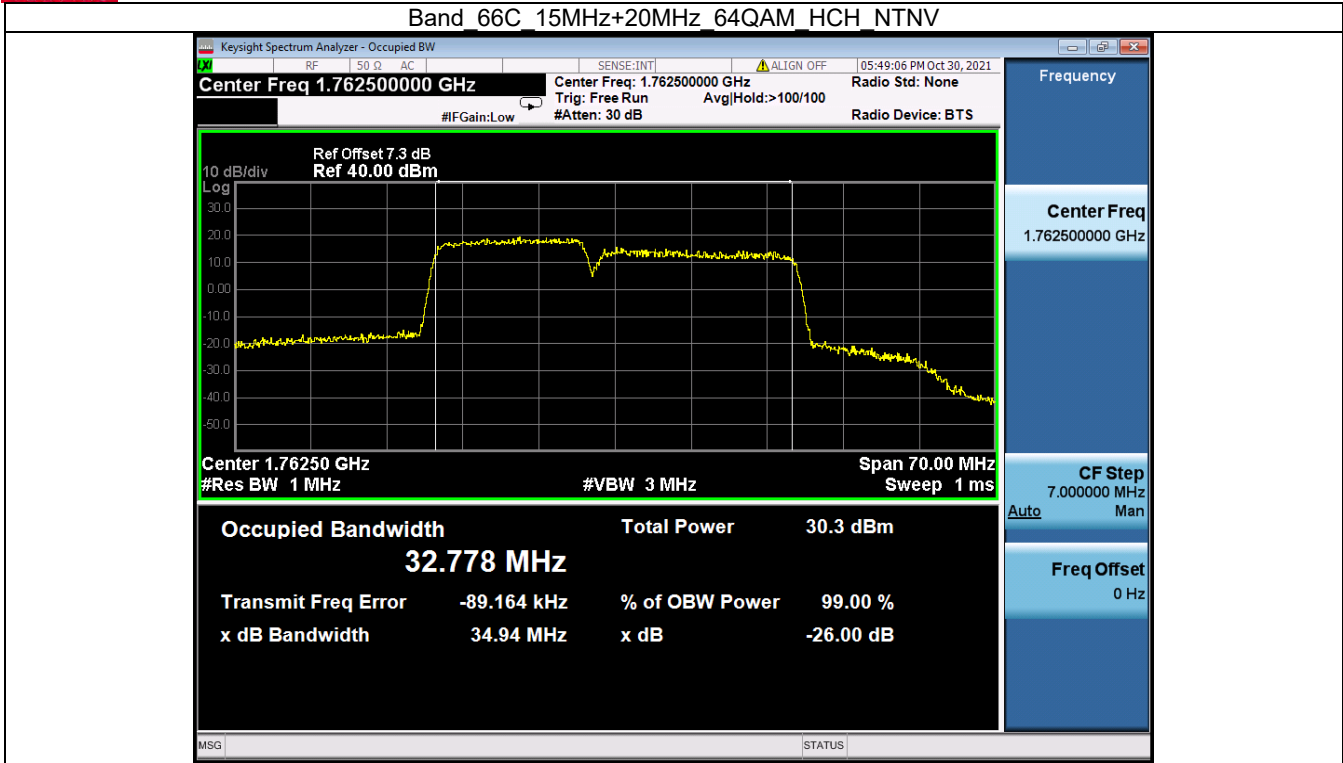
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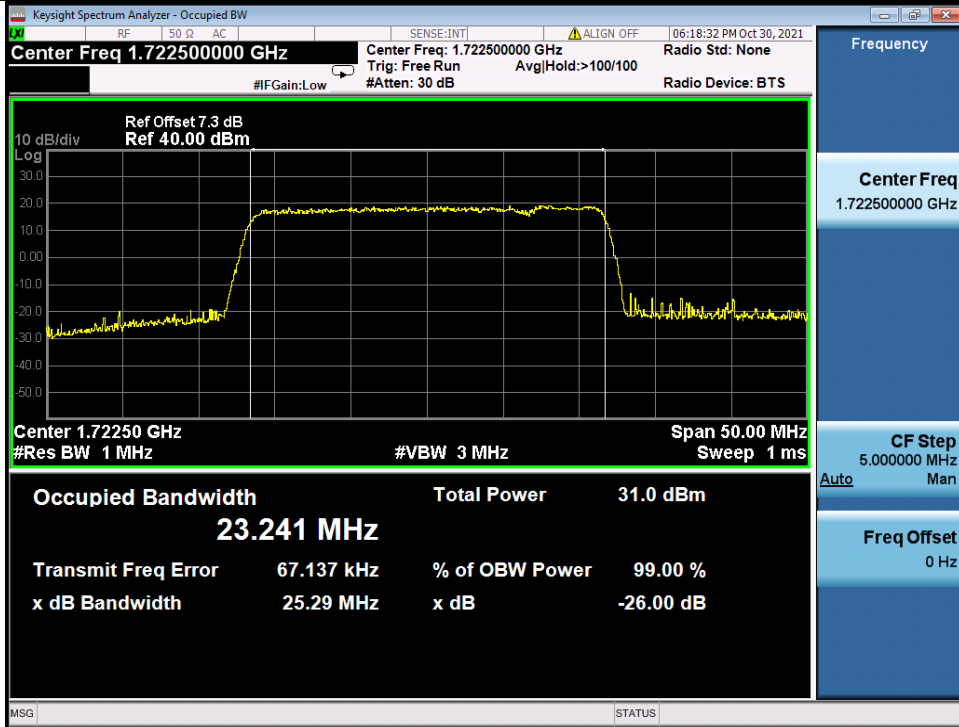
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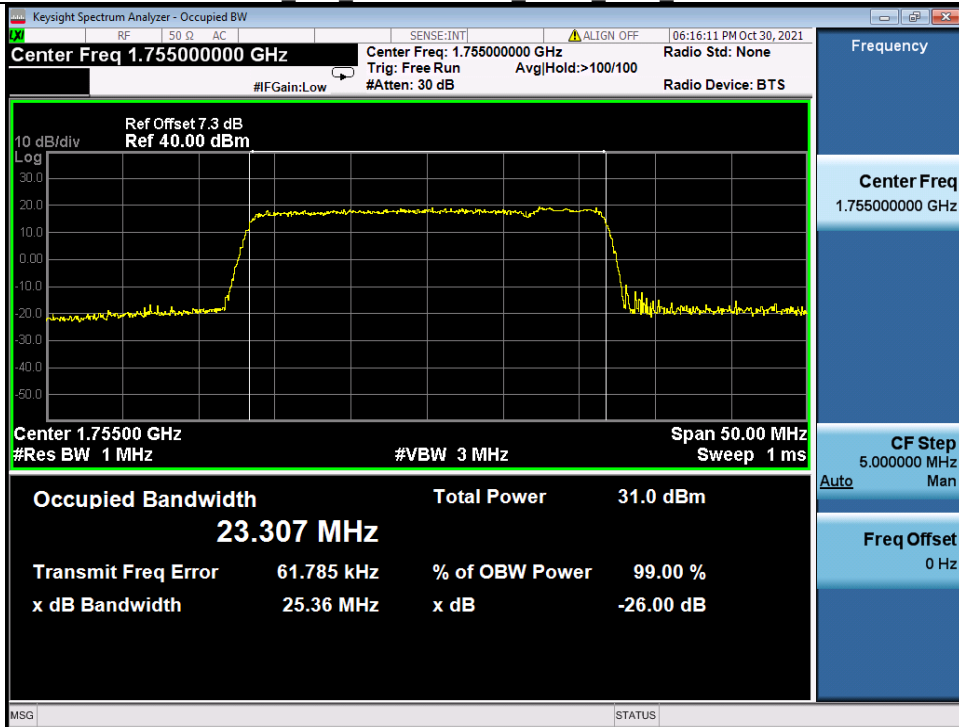
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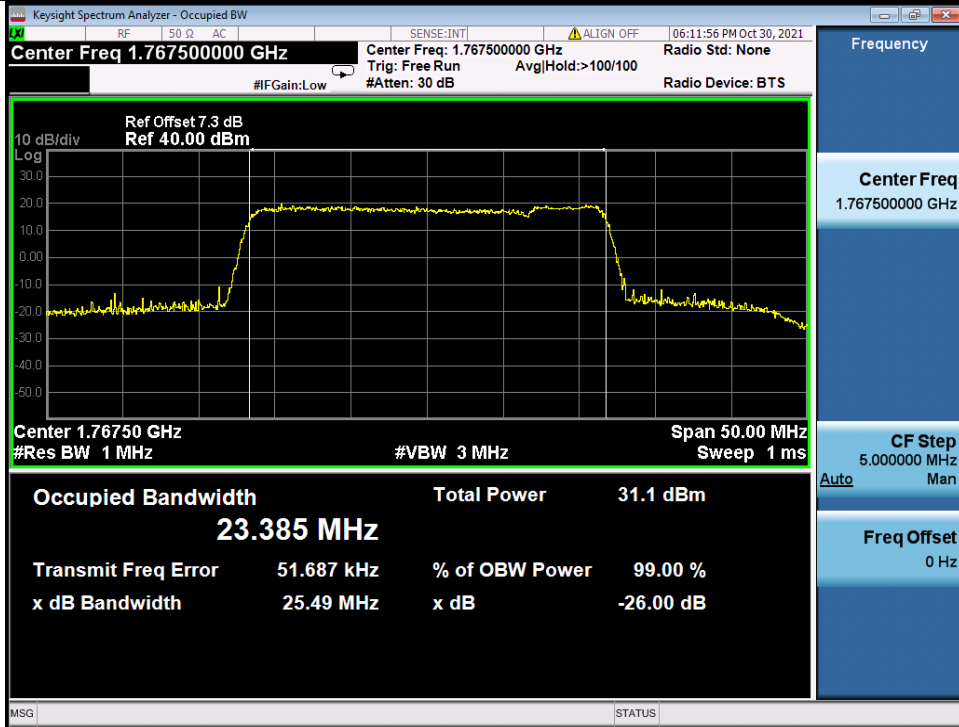
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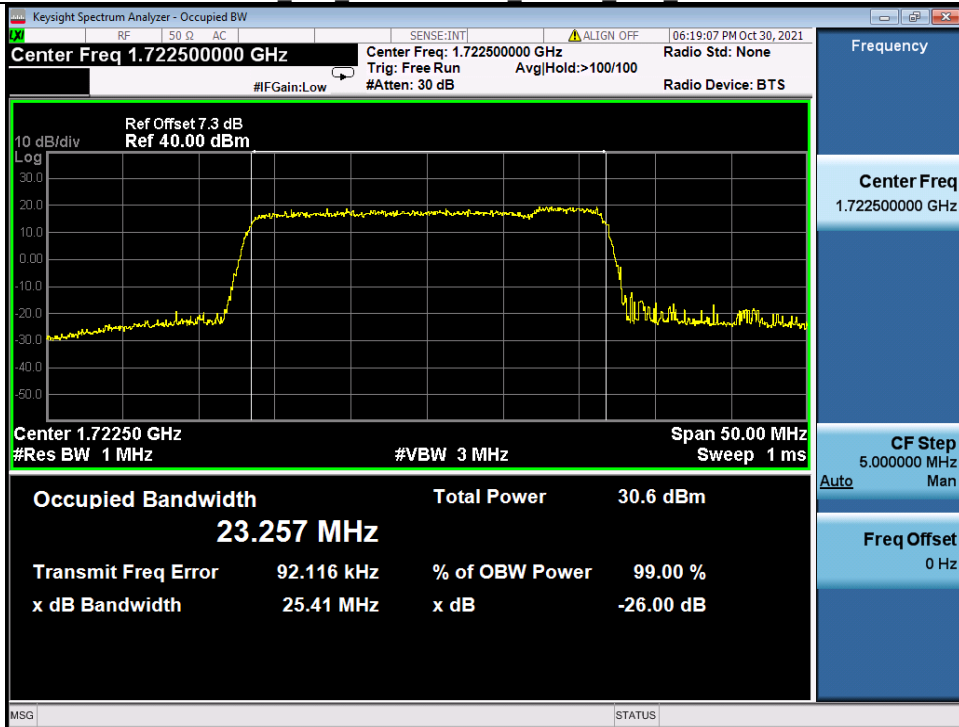
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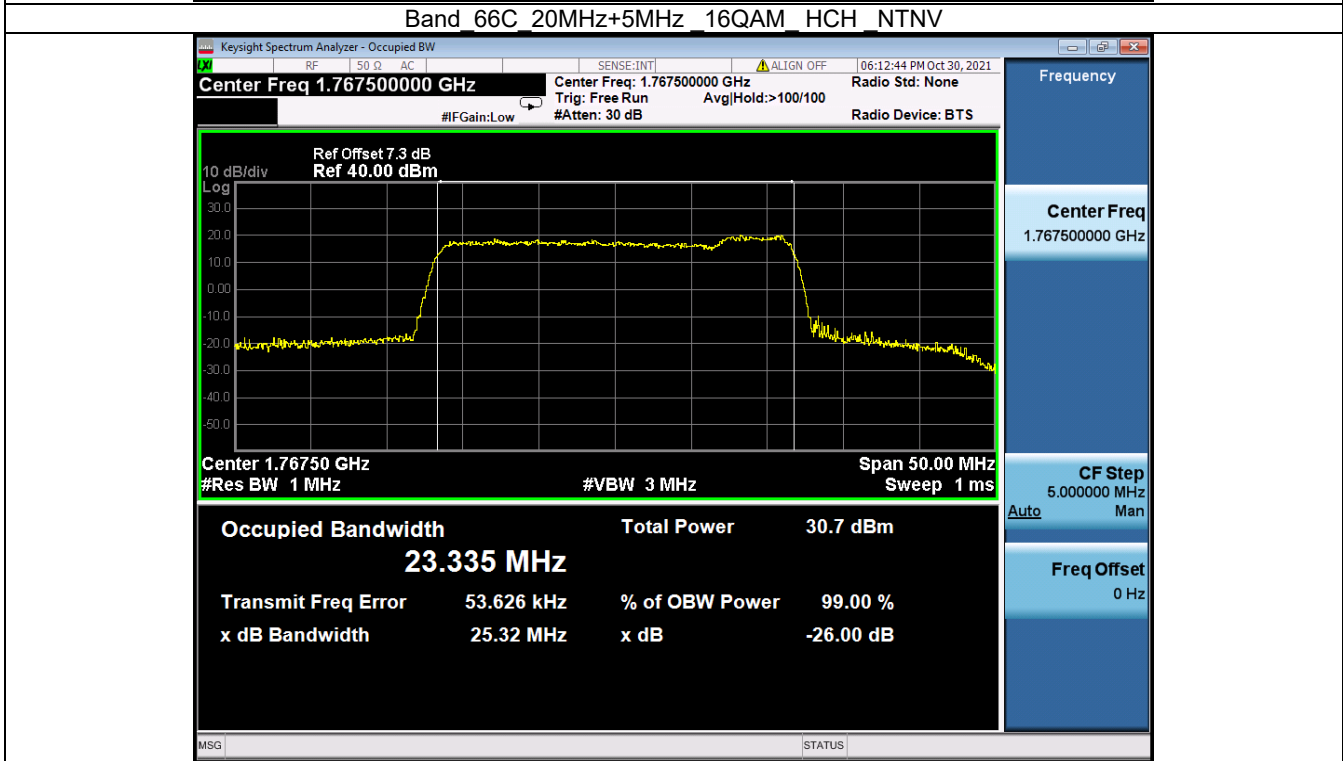
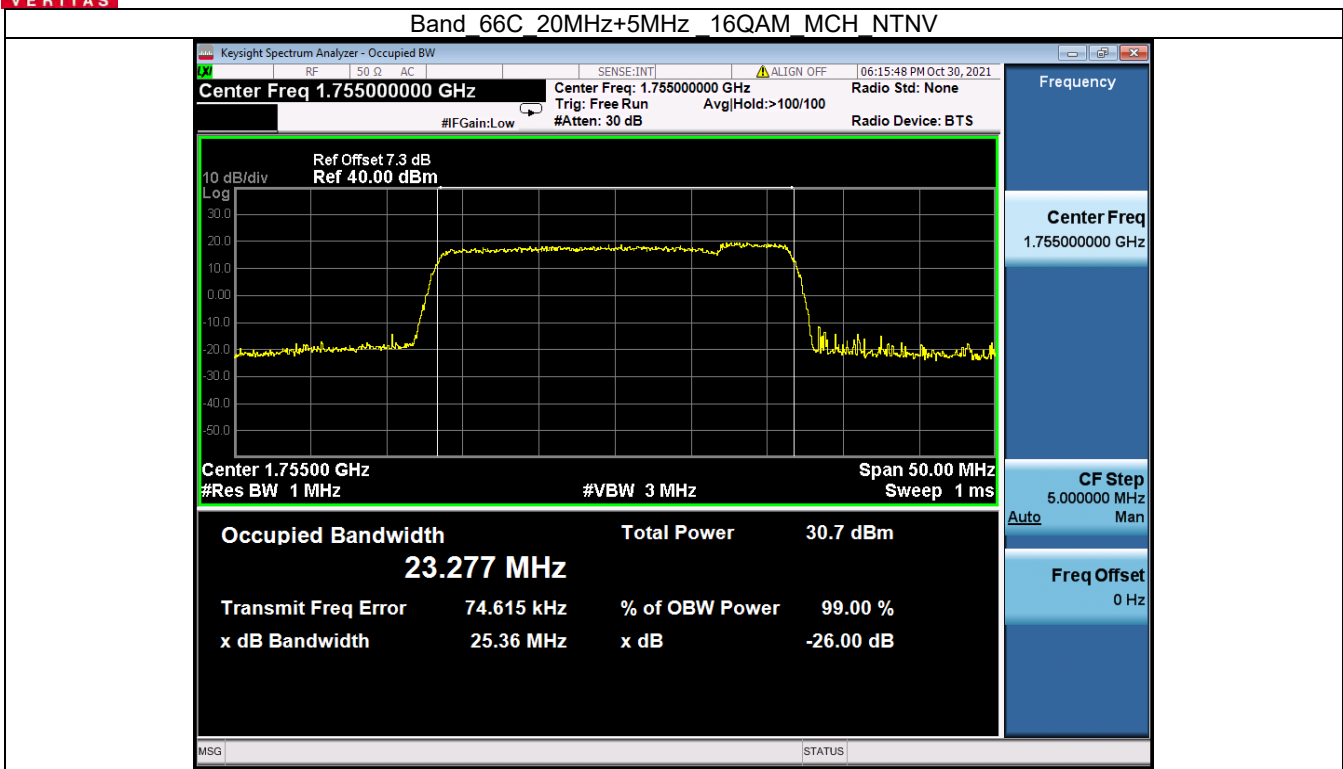
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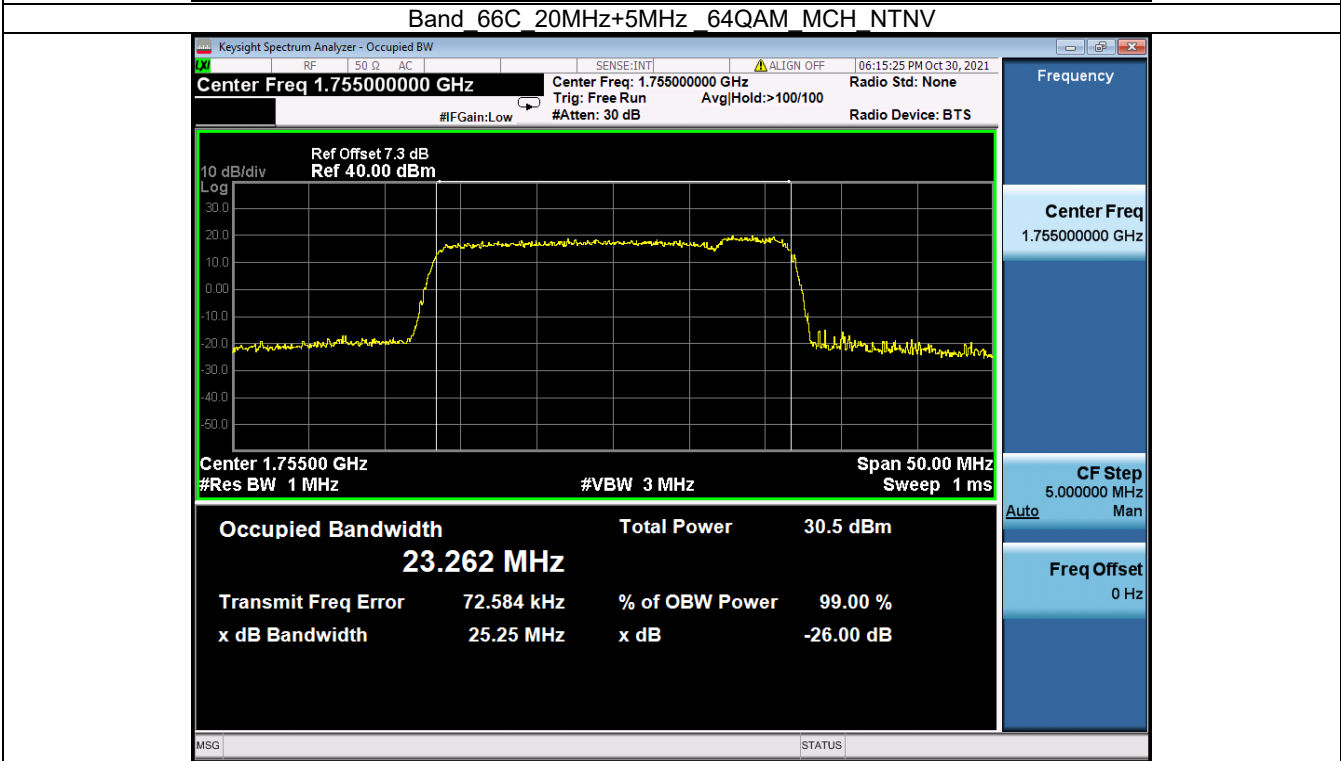
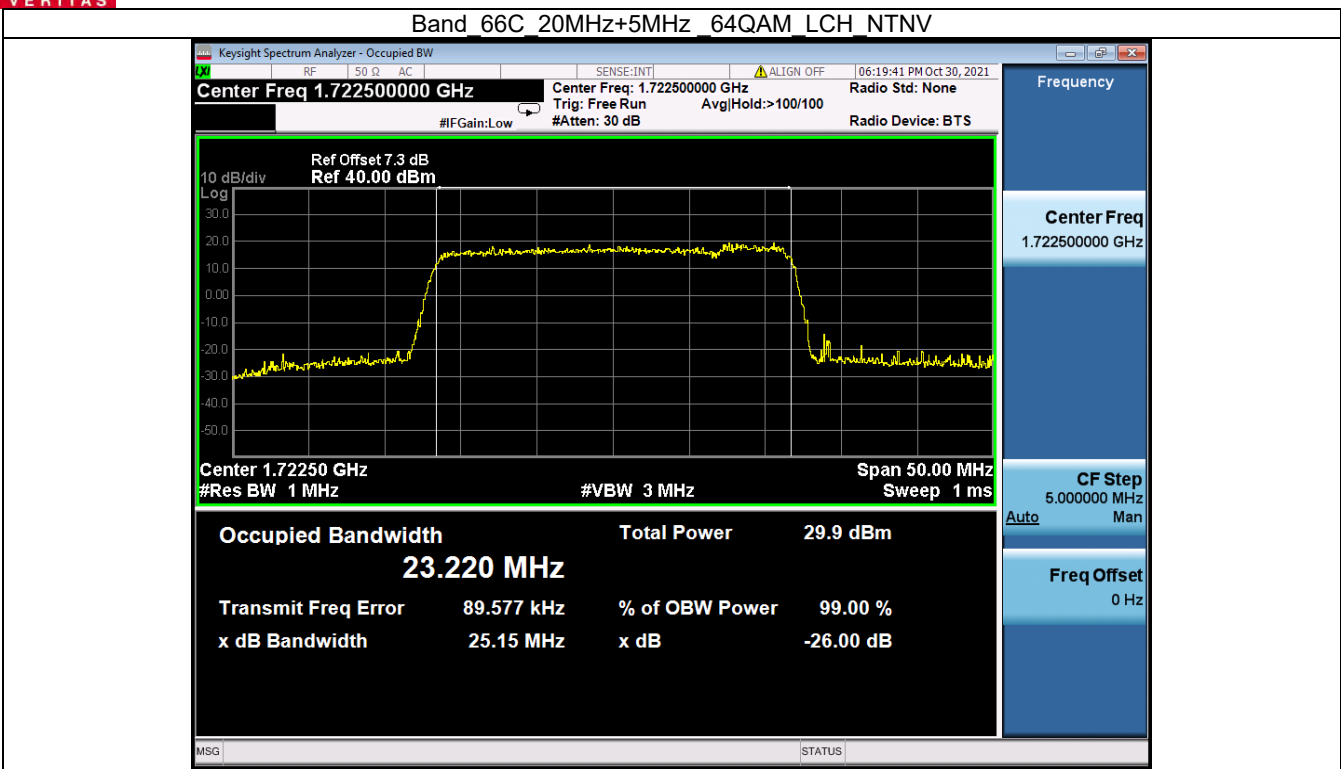
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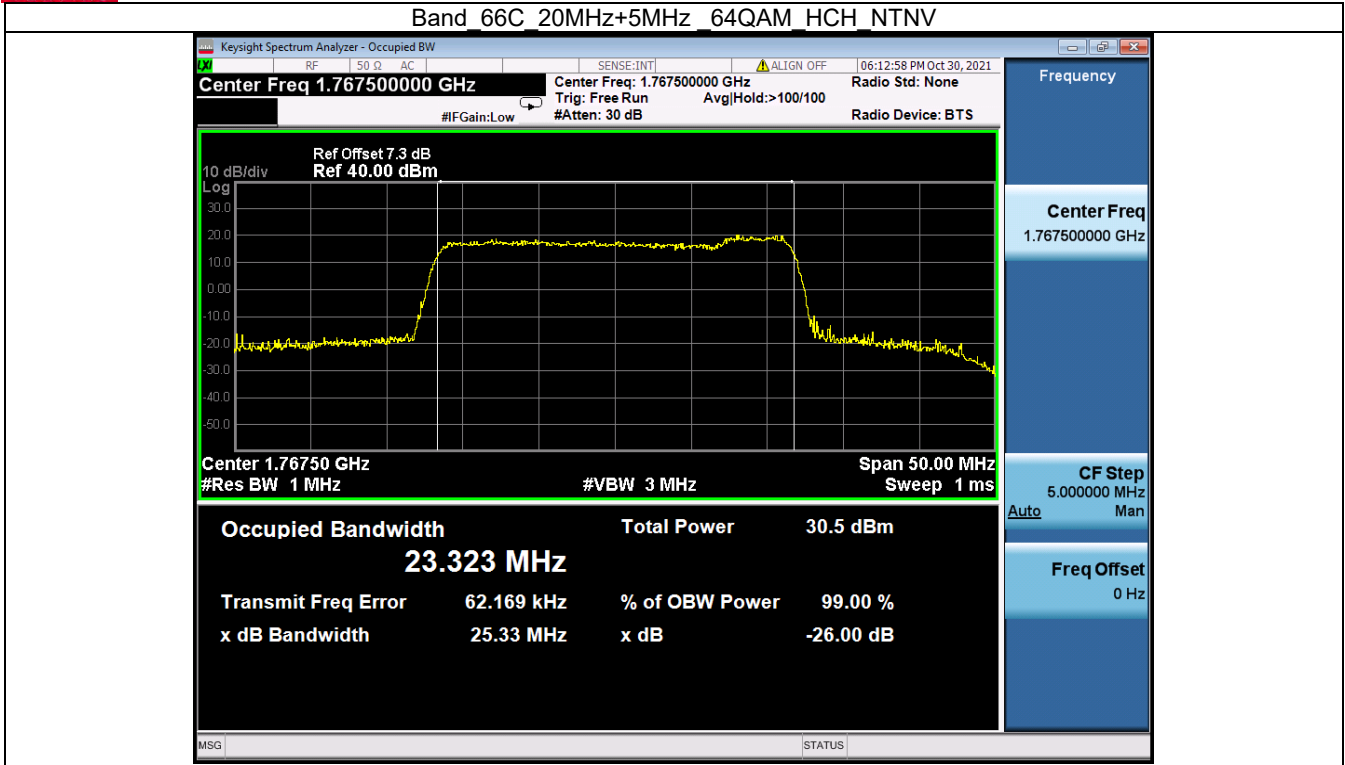
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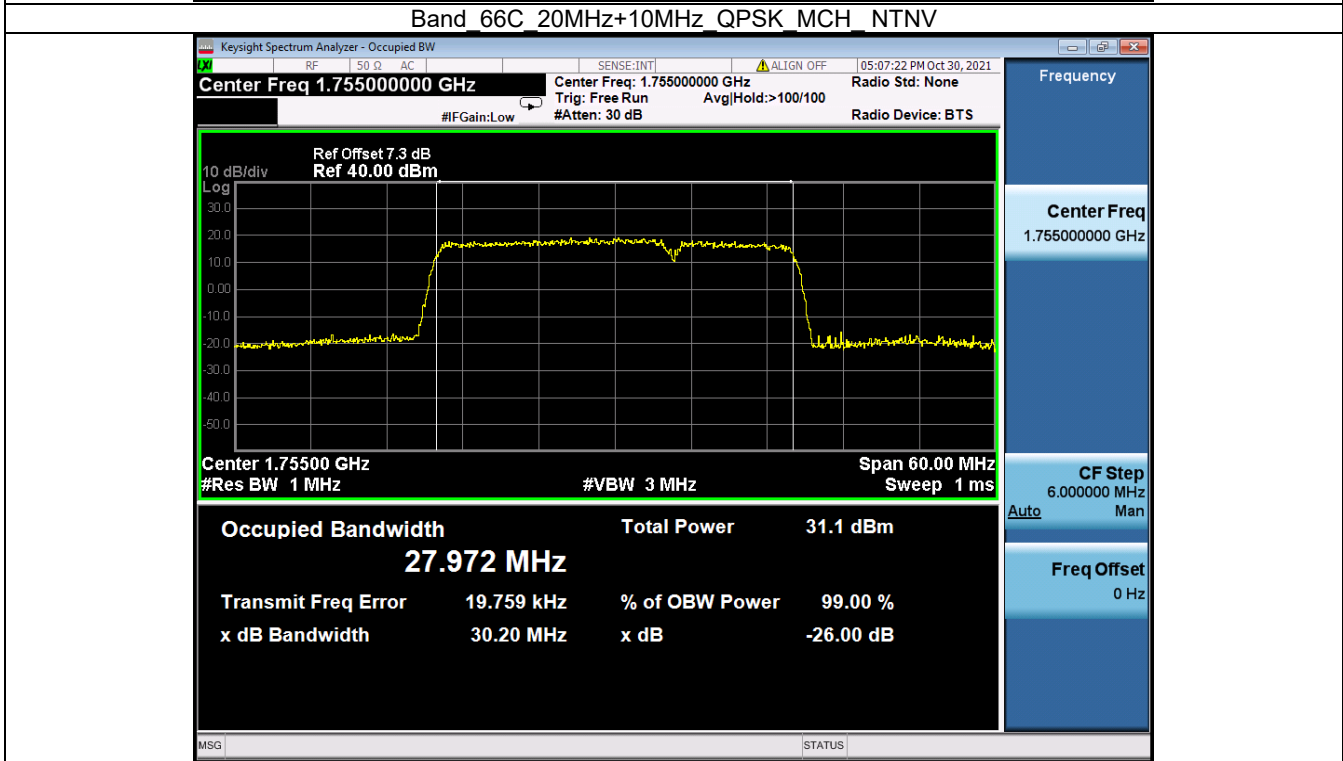
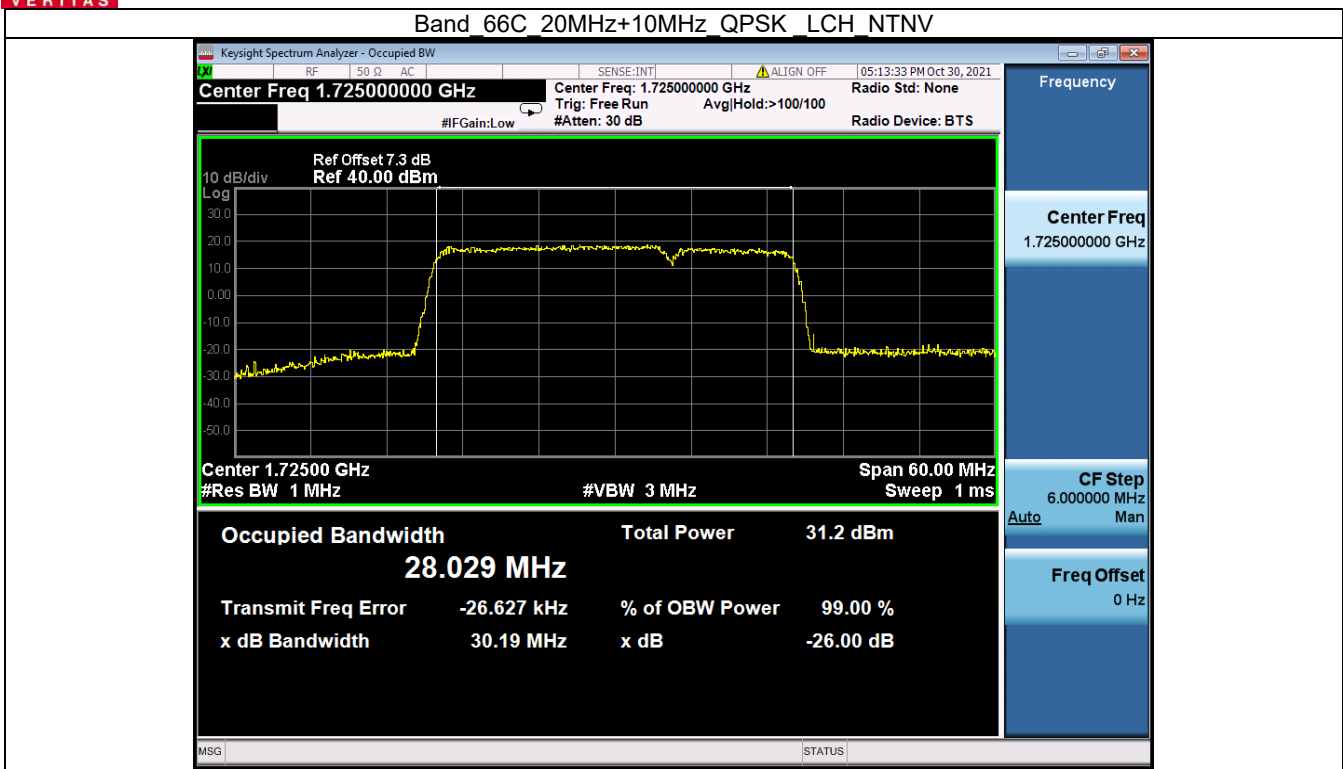
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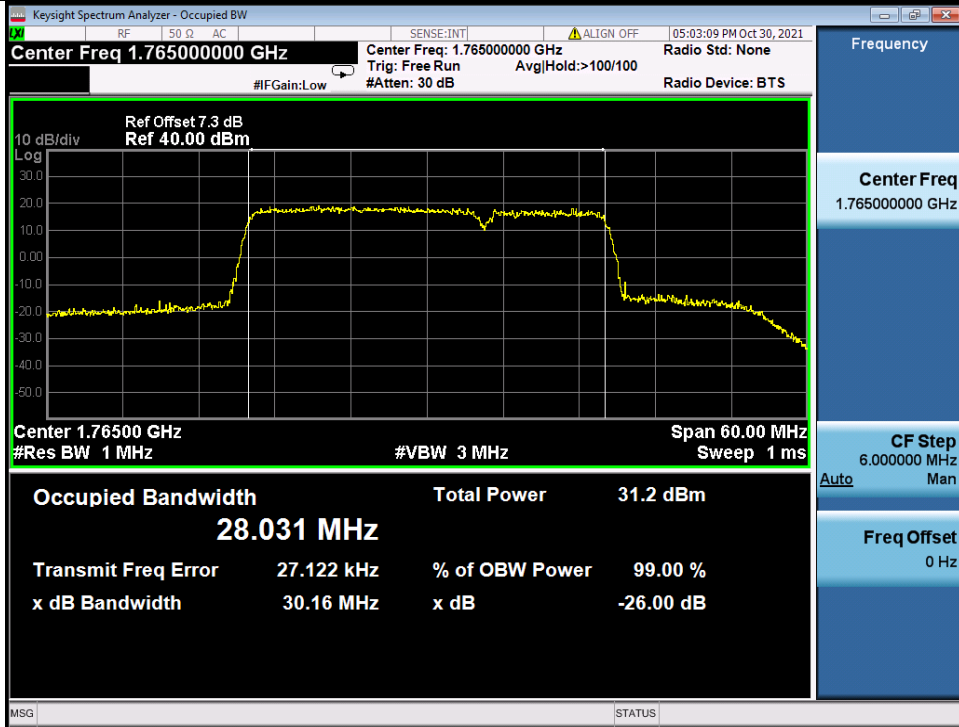
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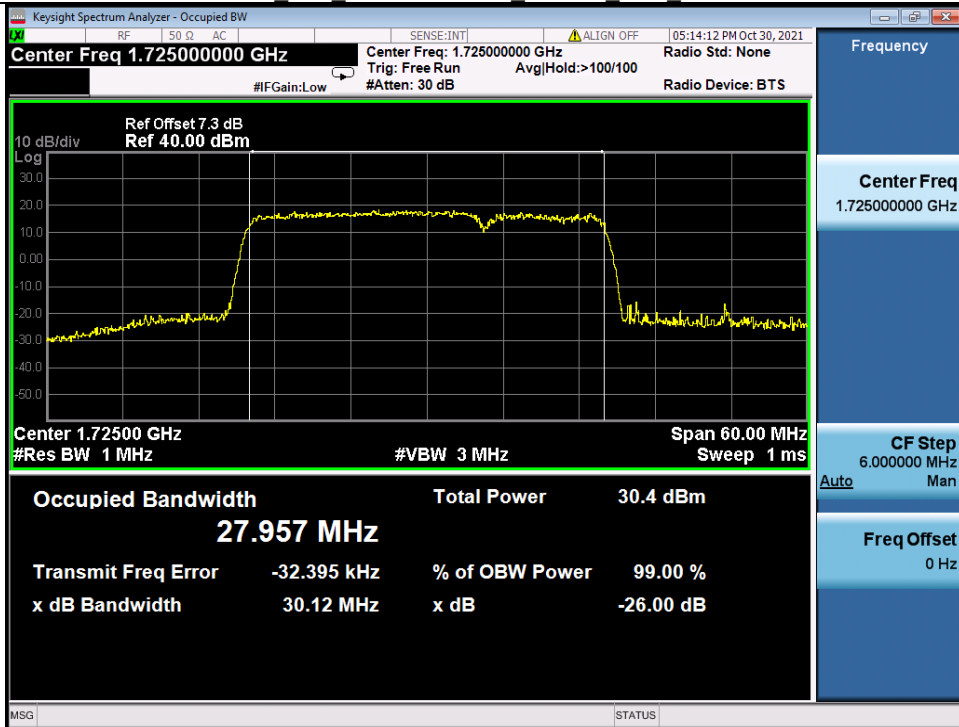
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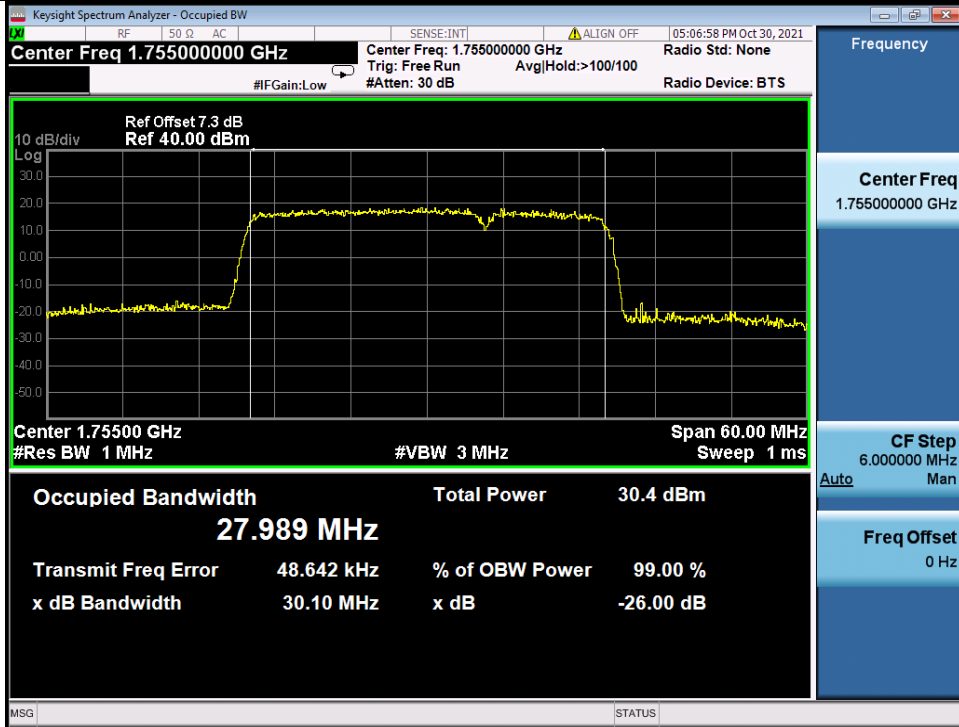
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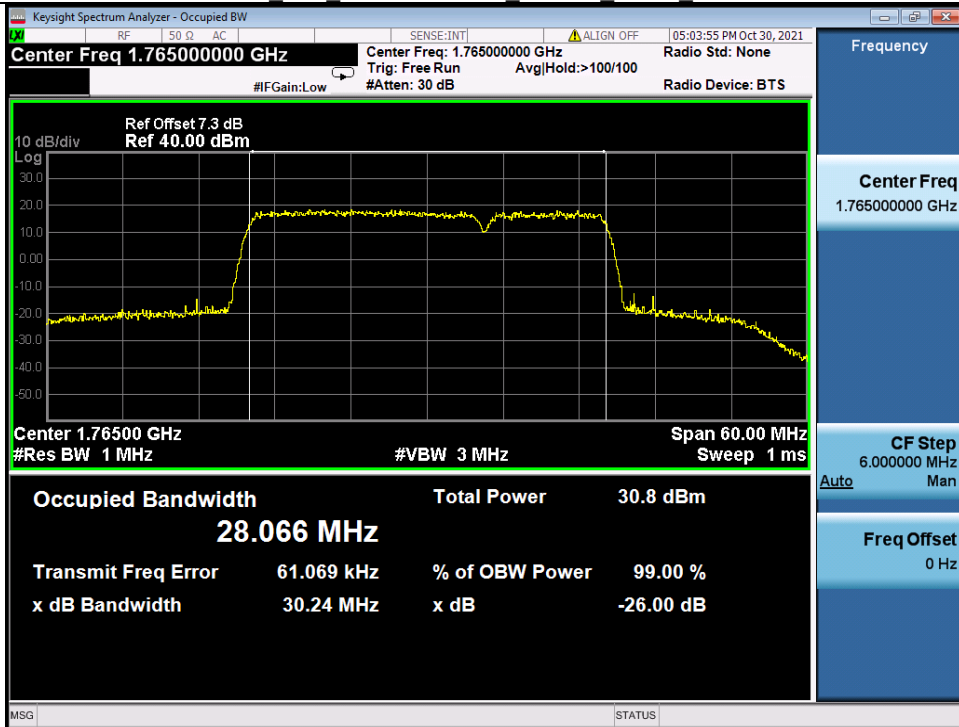
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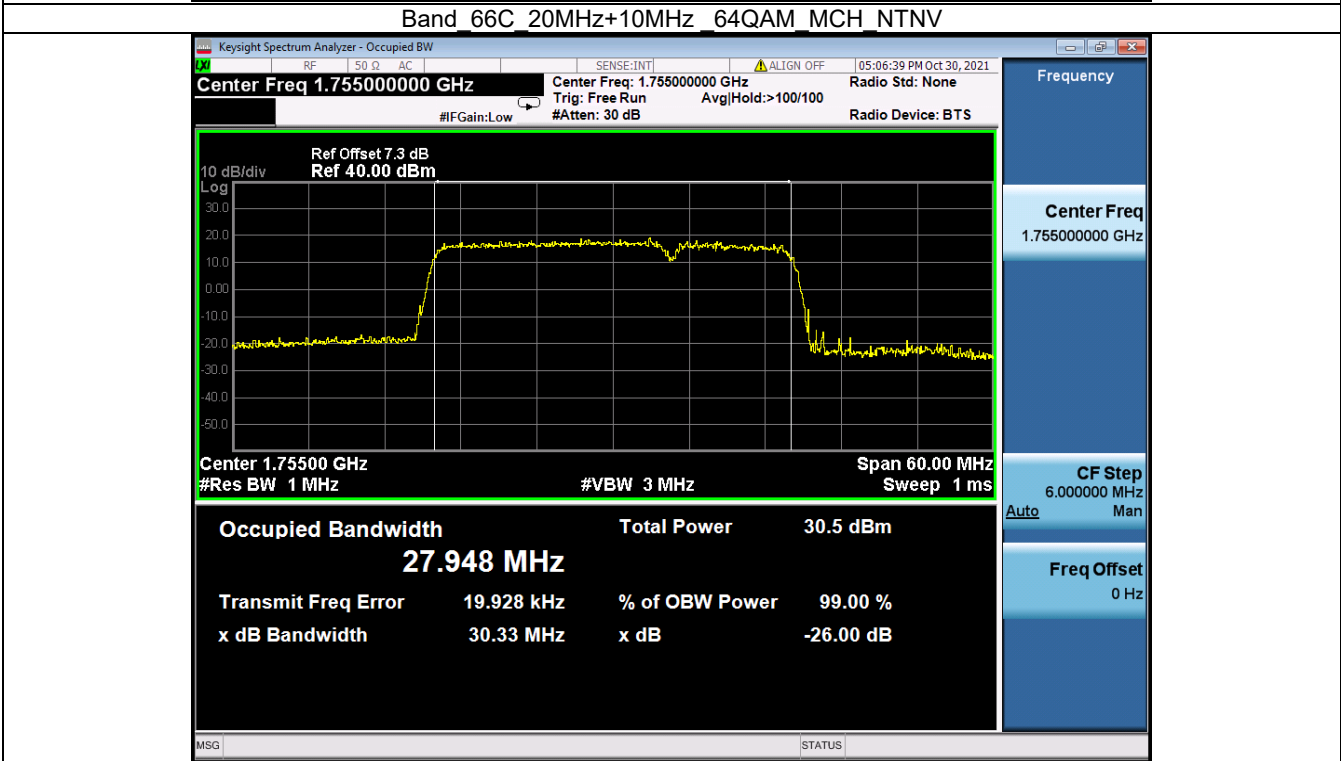
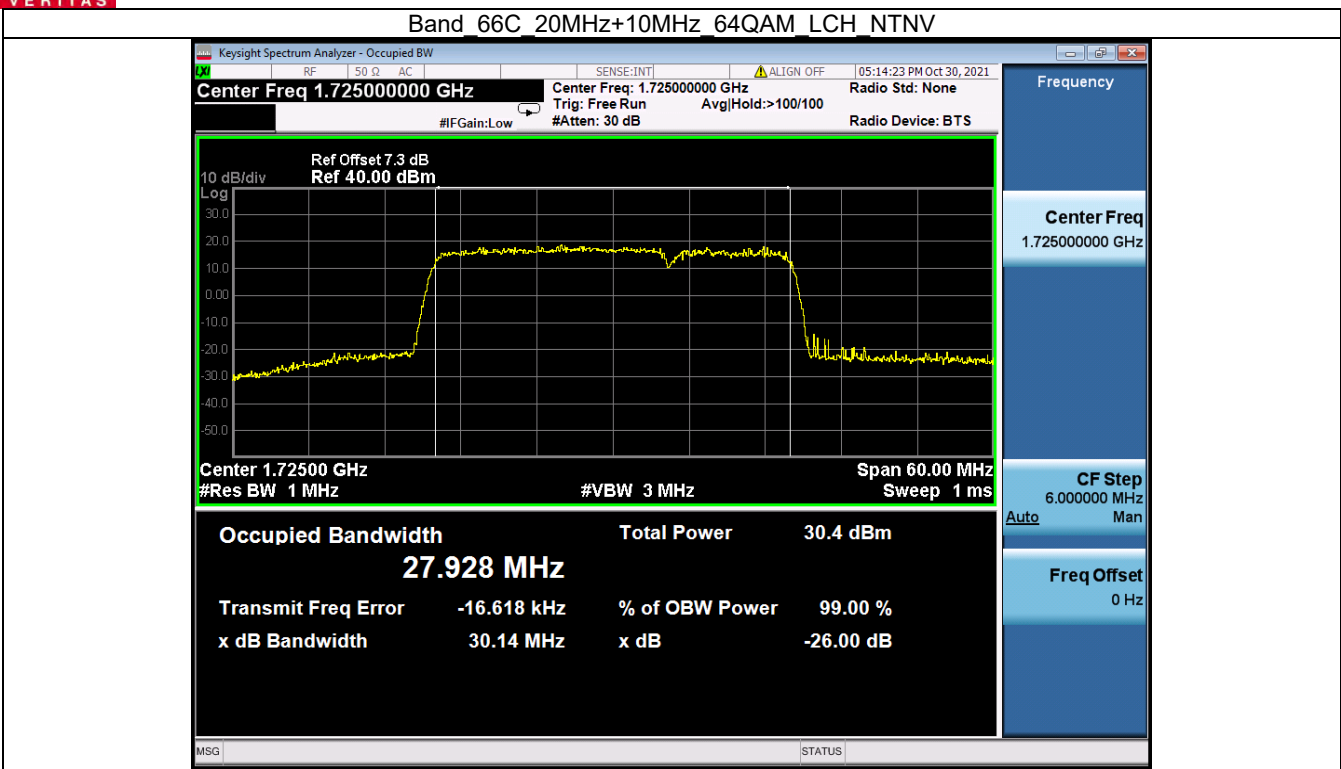
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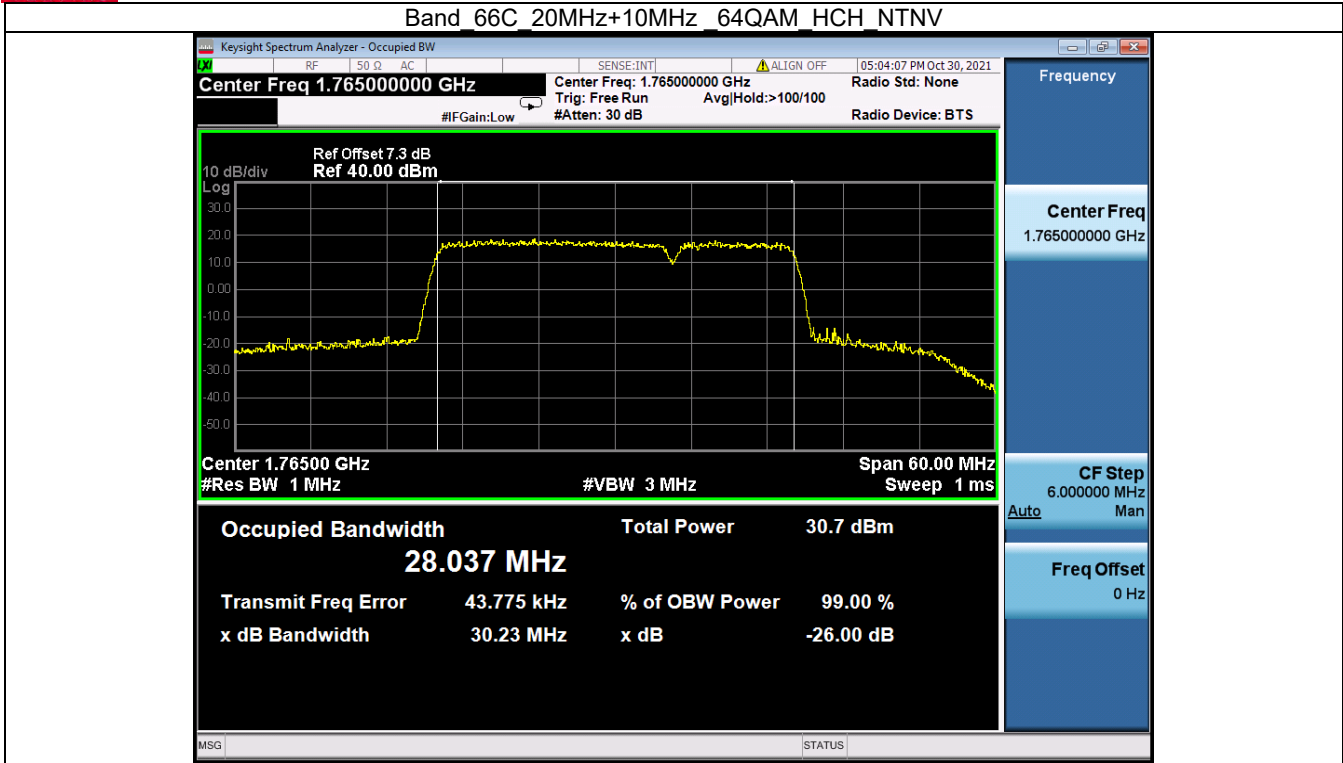
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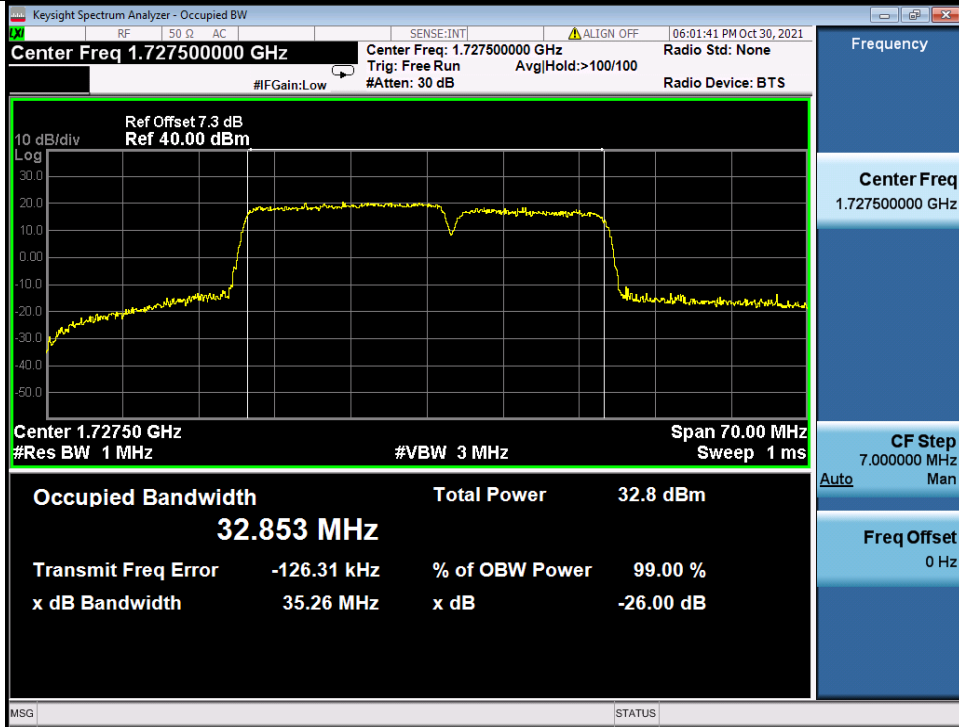
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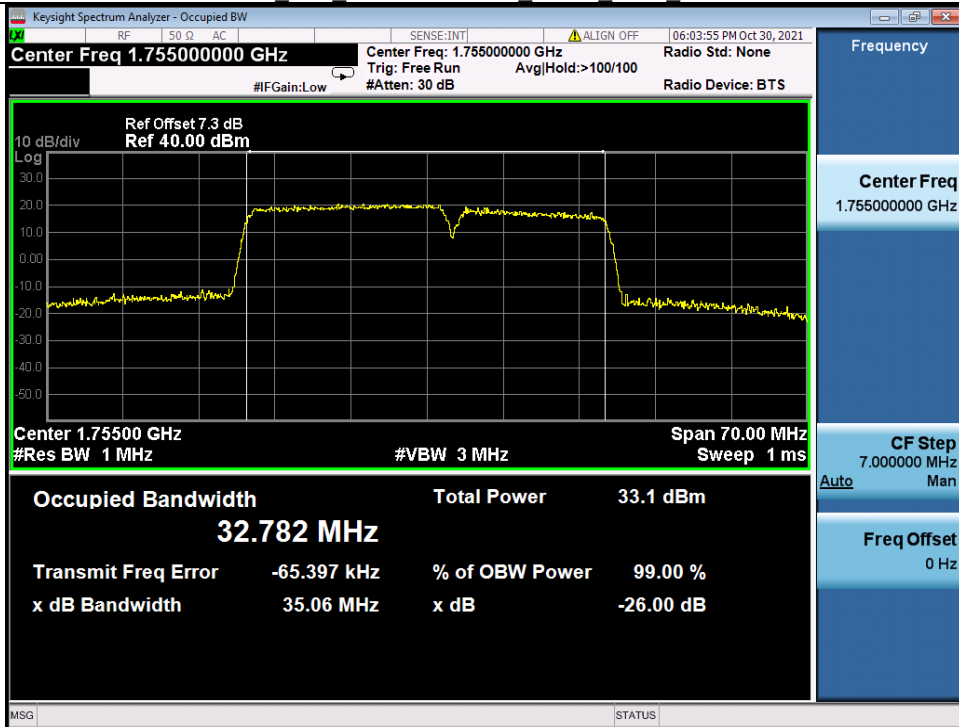




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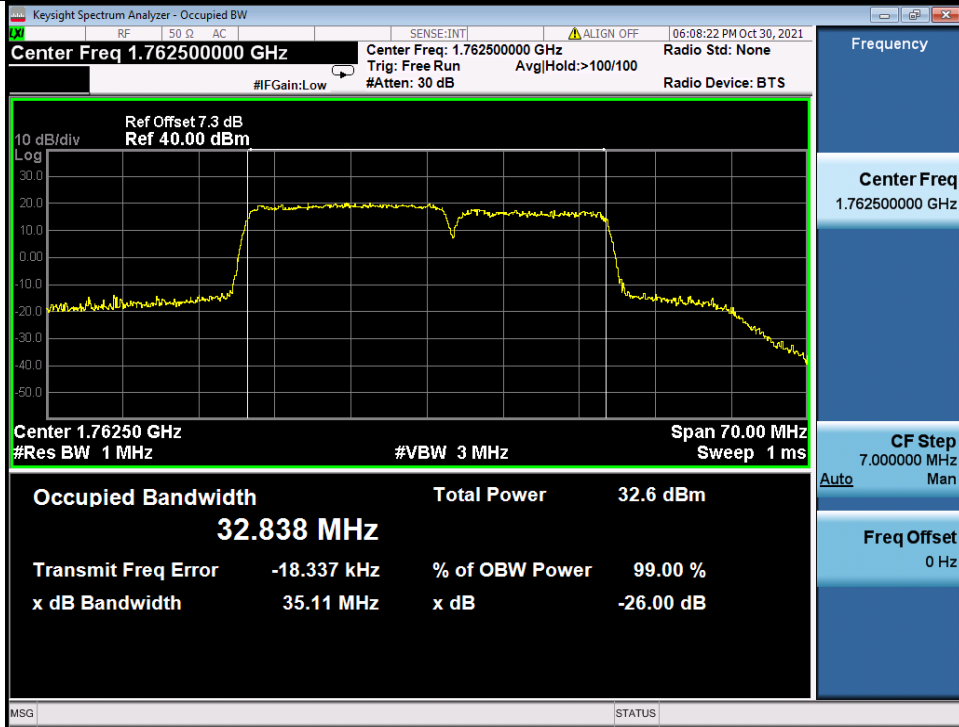
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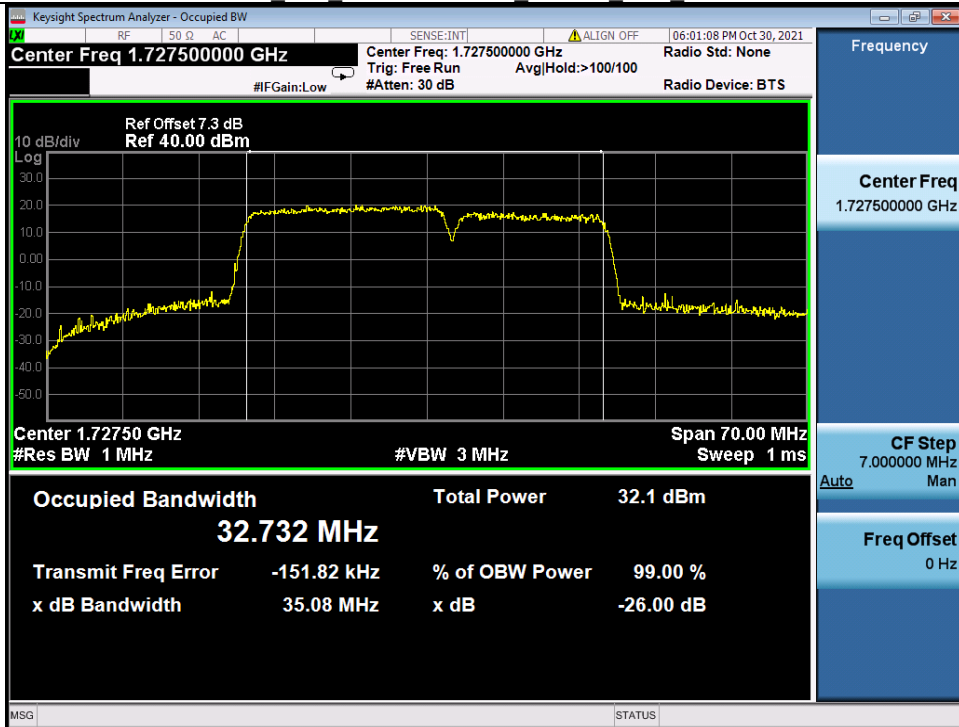
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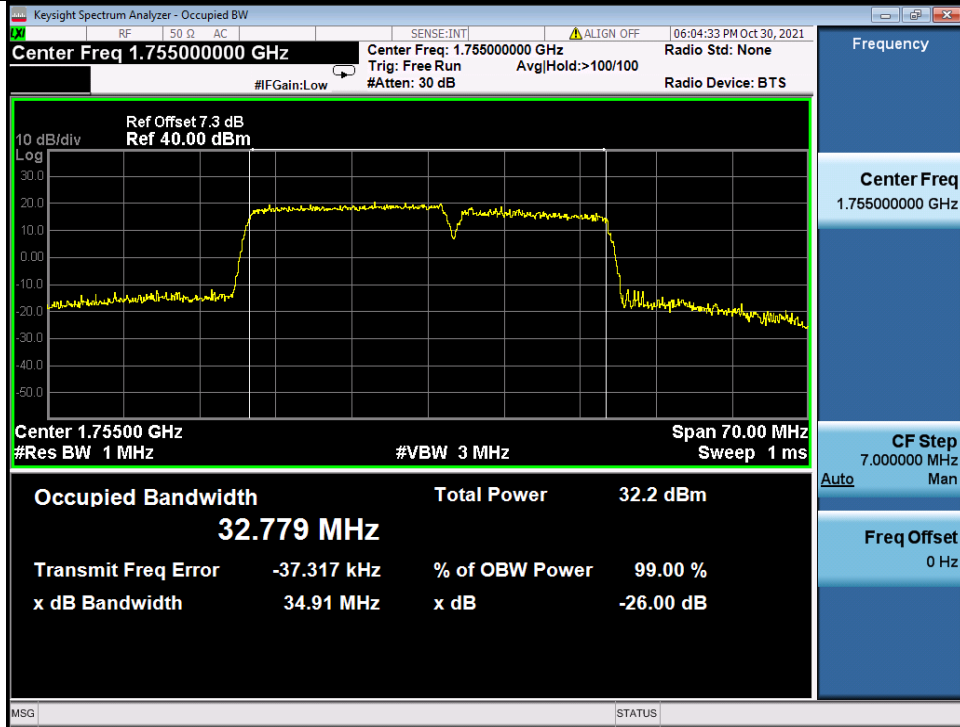
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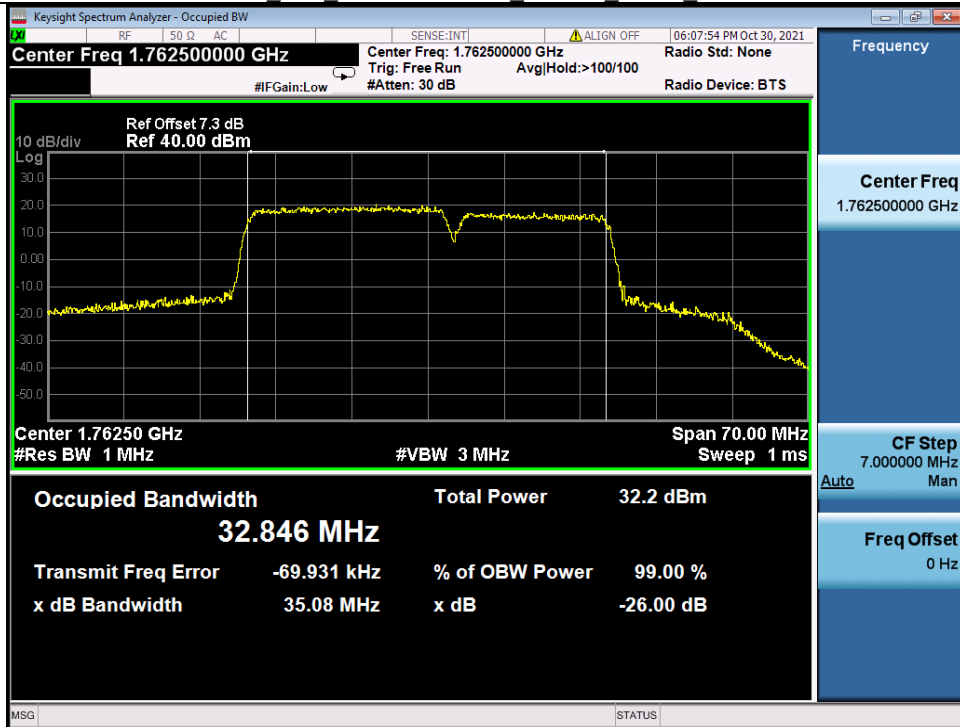
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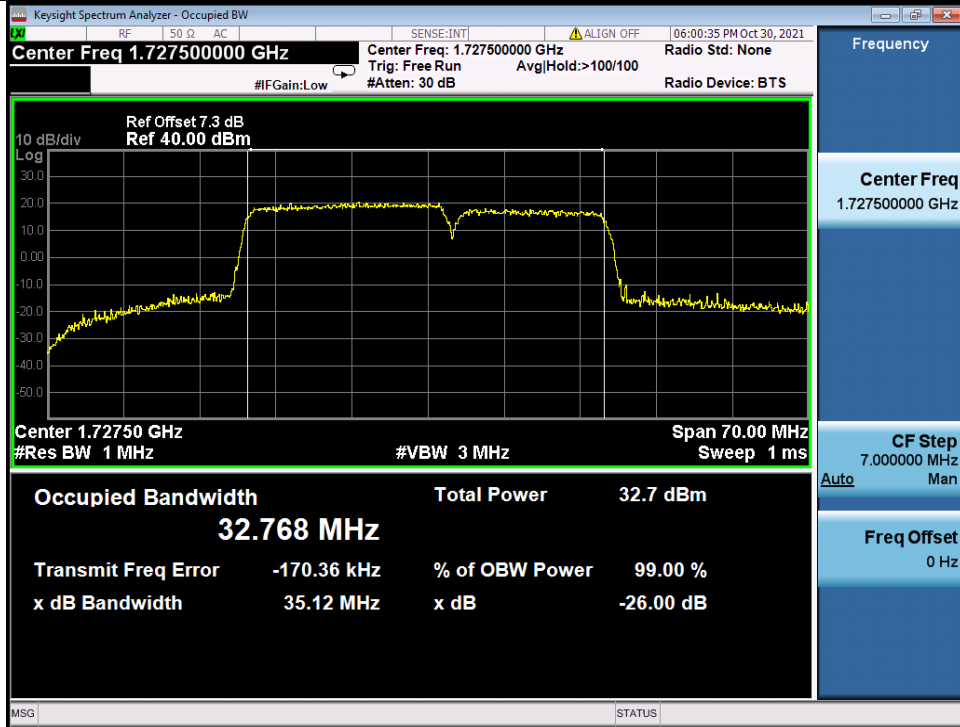
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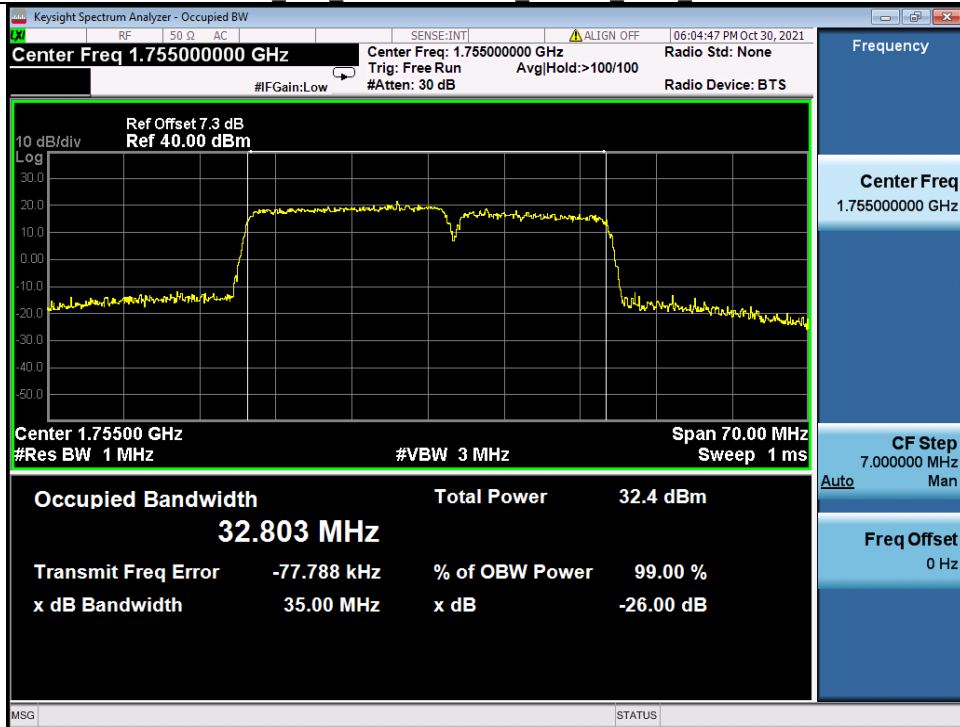
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Band 66C 20MHz+15MHz 64QAM MCH NTN



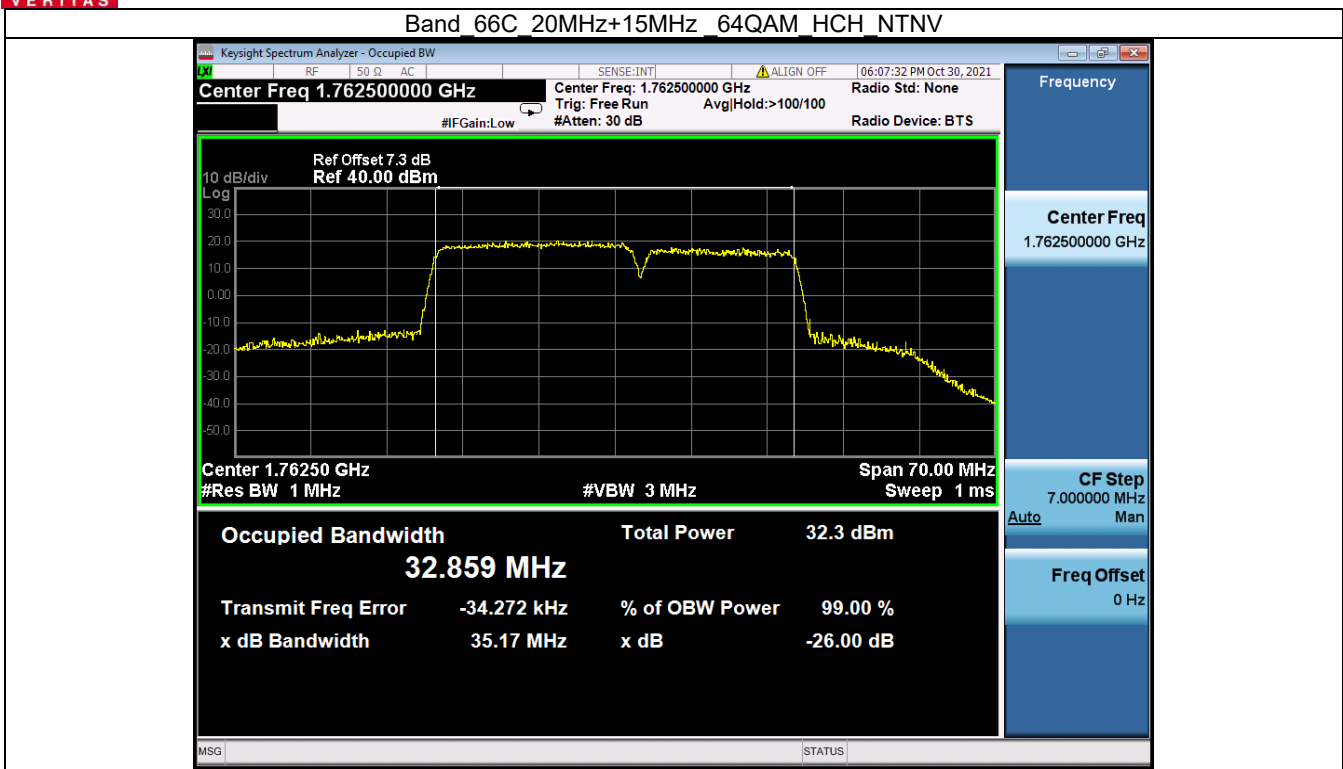
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Technology (Shenzhen) Co. Ltd

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District, Shenzhen, Guangdong, China

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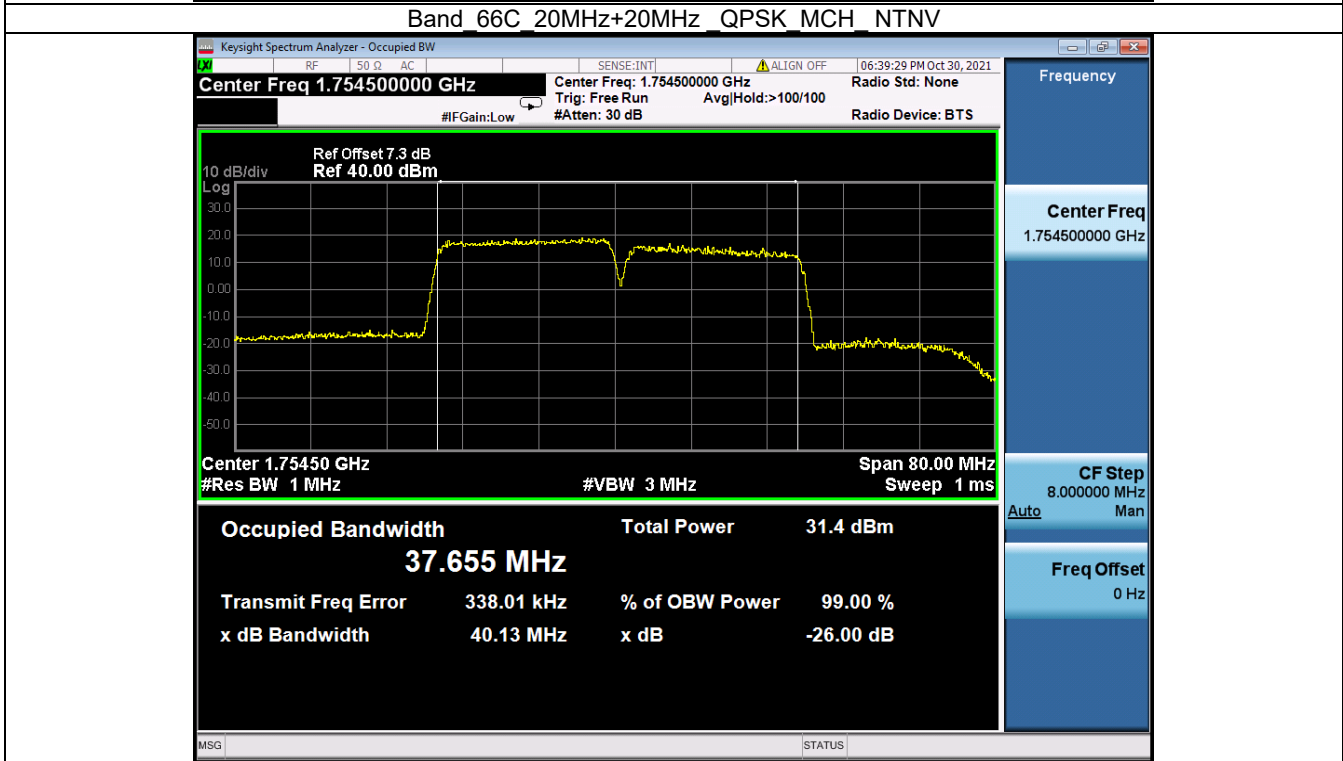
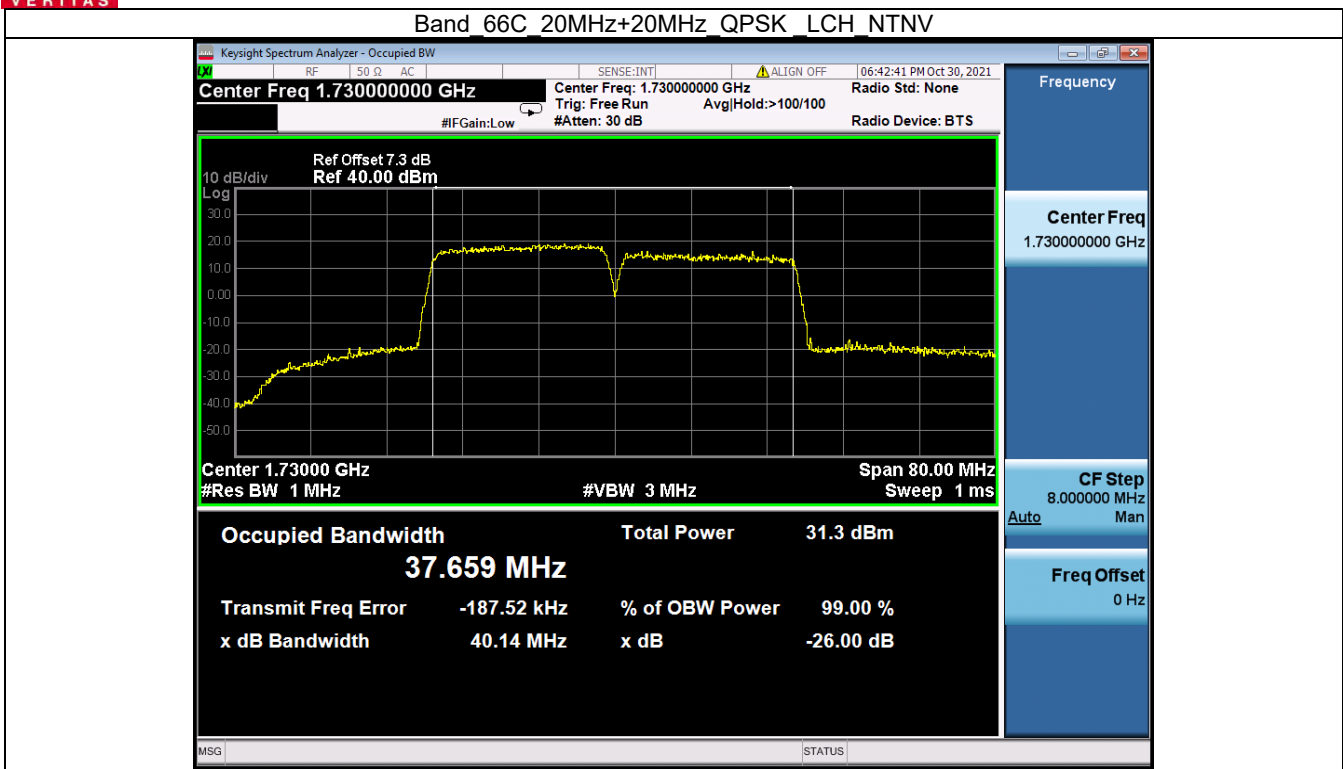
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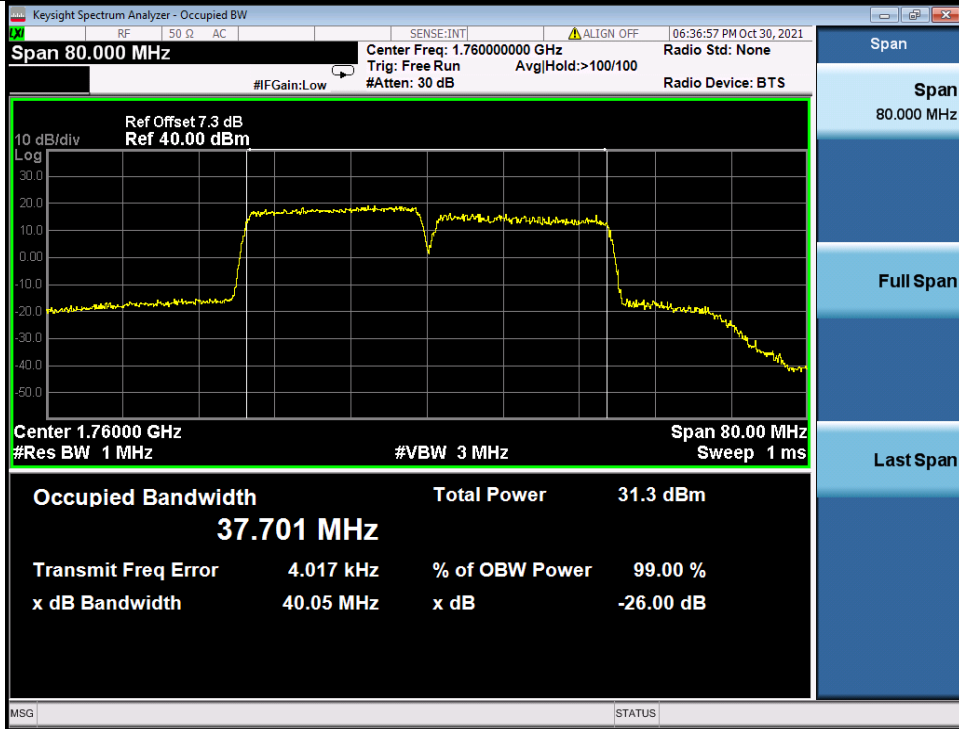
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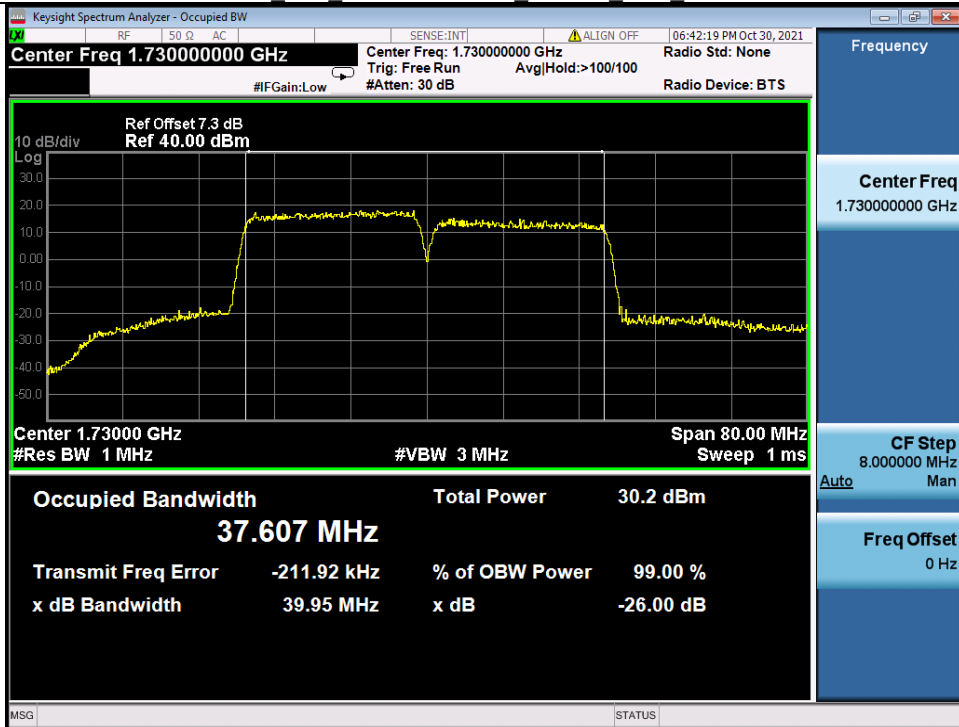
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Band 66C 20MHz+20MHz QPSK HCH NTN



Band 66C 20MHz+20MHz 16QAM LCH NTN



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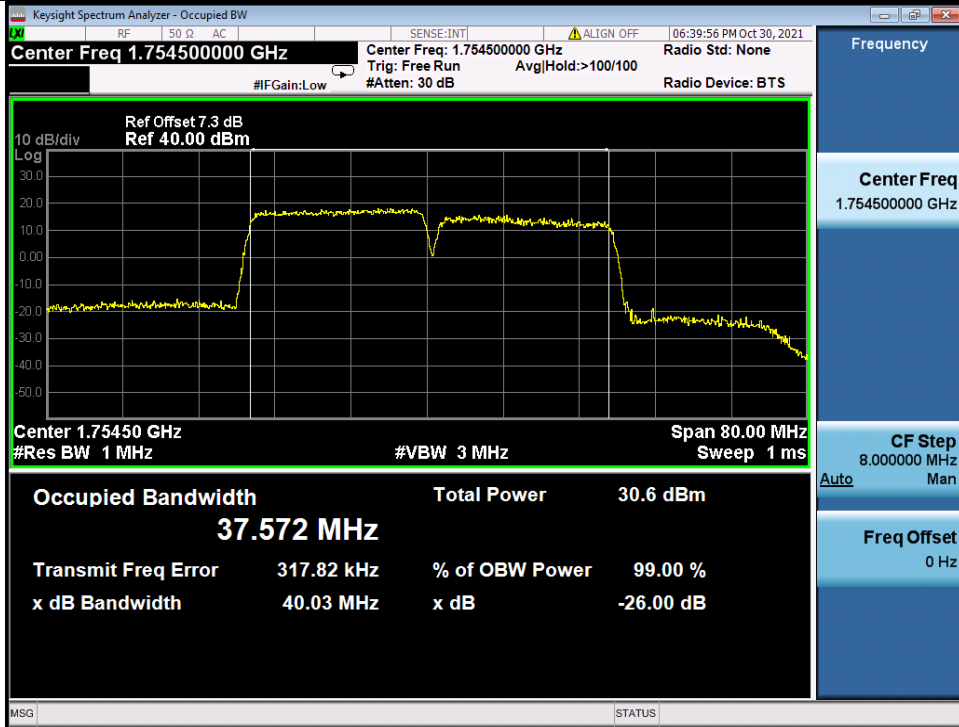
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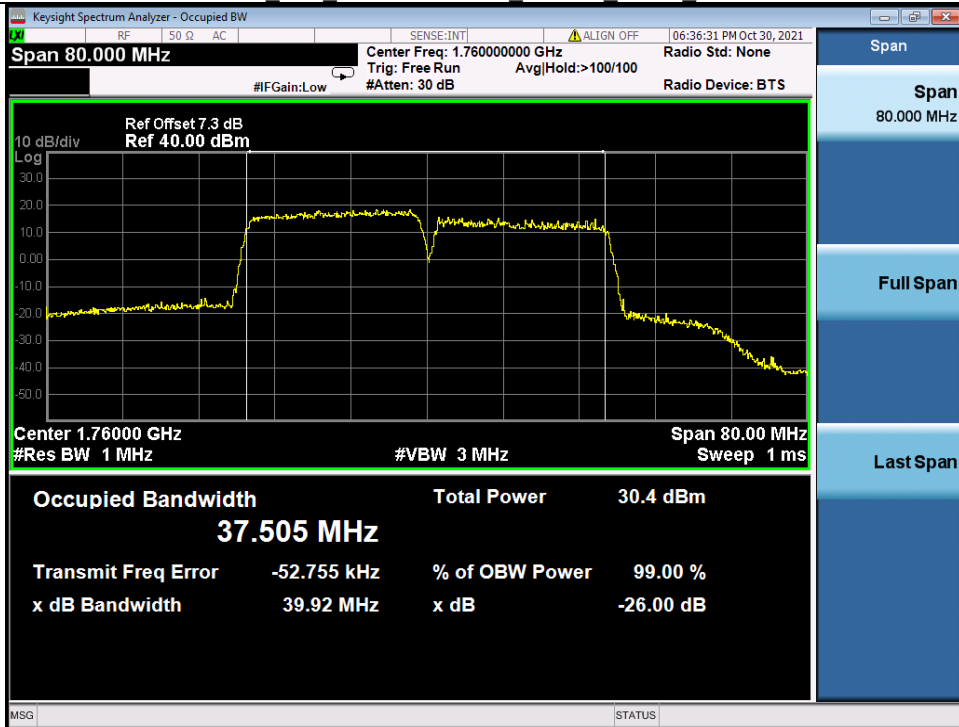
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Band 66C 20MHz+20MHz 16QAM MCH NTN



Band 66C 20MHz+20MHz 16QAM HCH NTN



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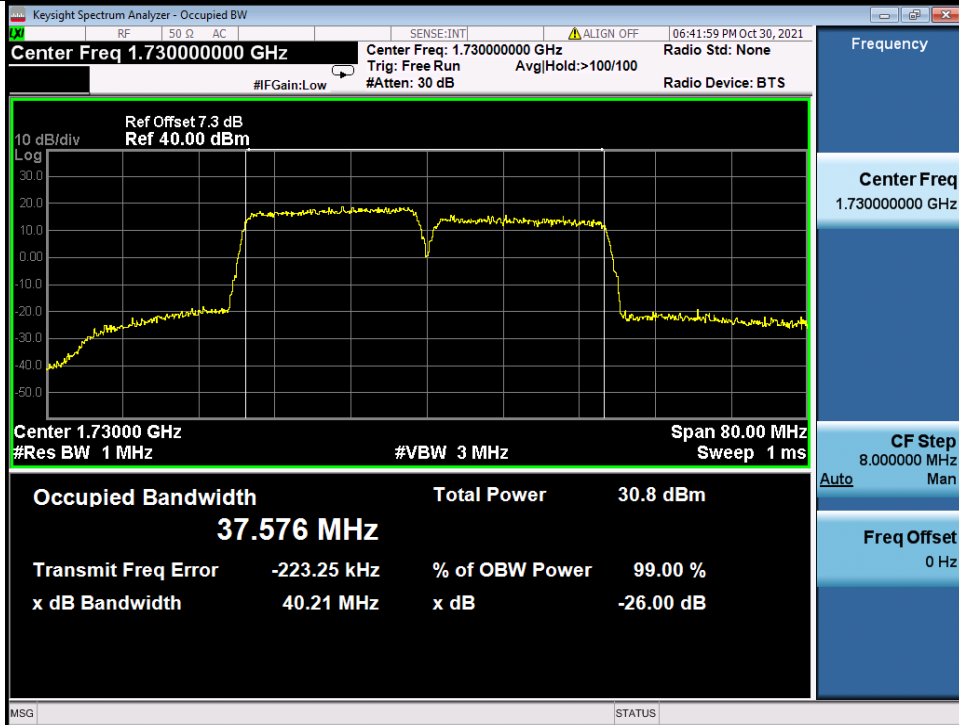
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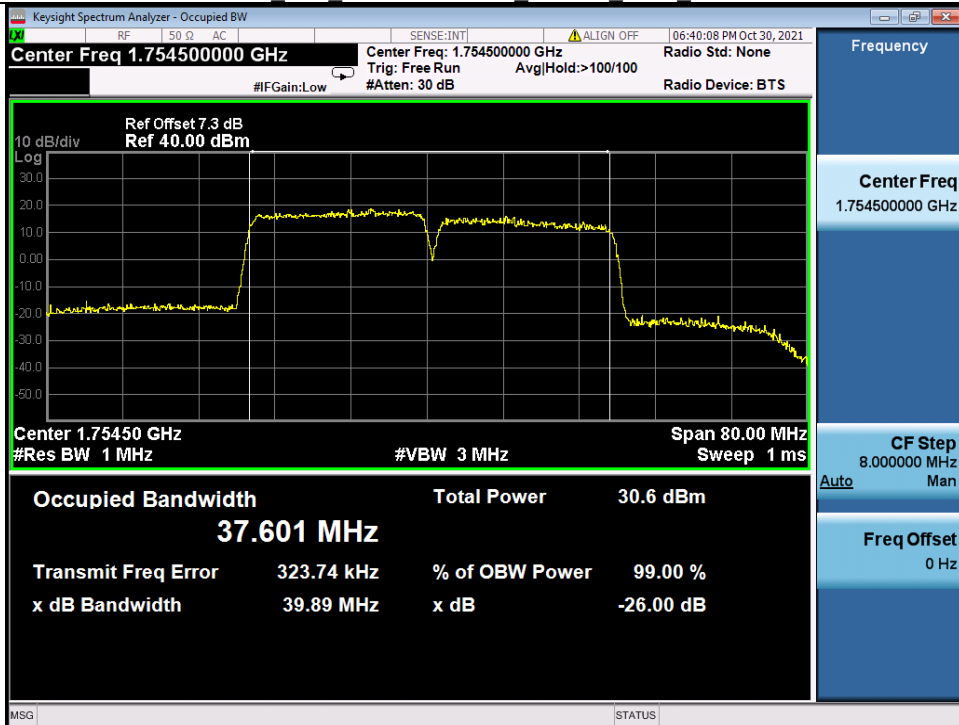




Band 66C 20MHz+20MHz 64QAM LCH NTN



Band 66C 20MHz+20MHz 64QAM MCH NTN



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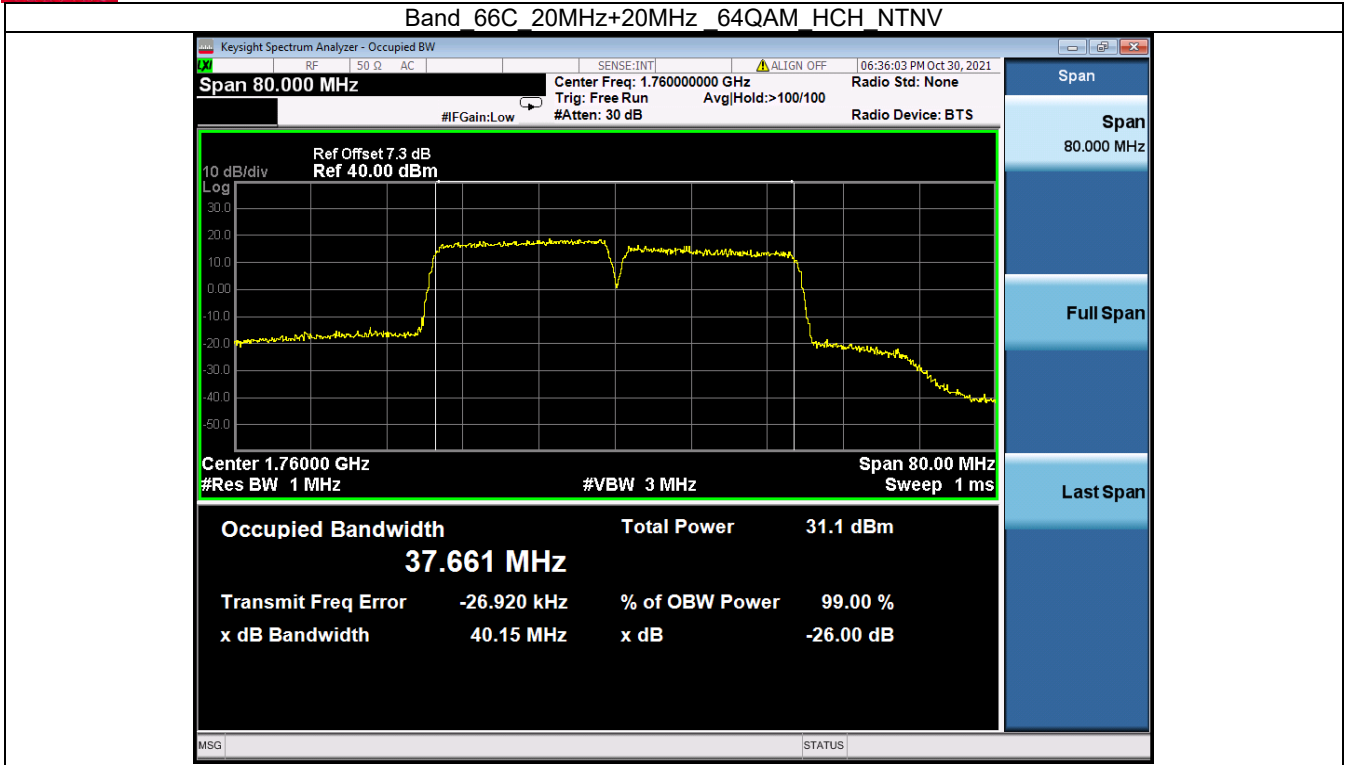
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**Band 66C 20MHz+20MHz 64QAM HCH NTN**



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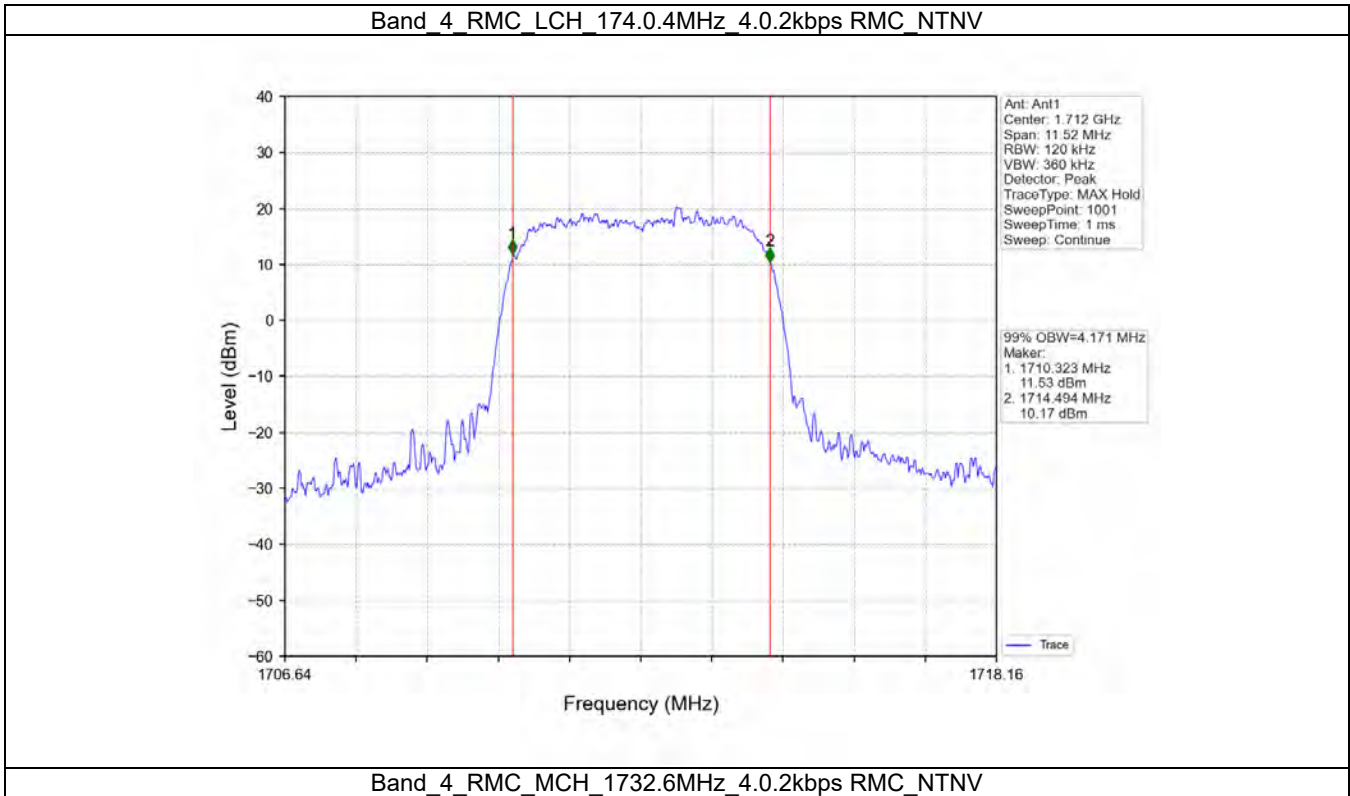
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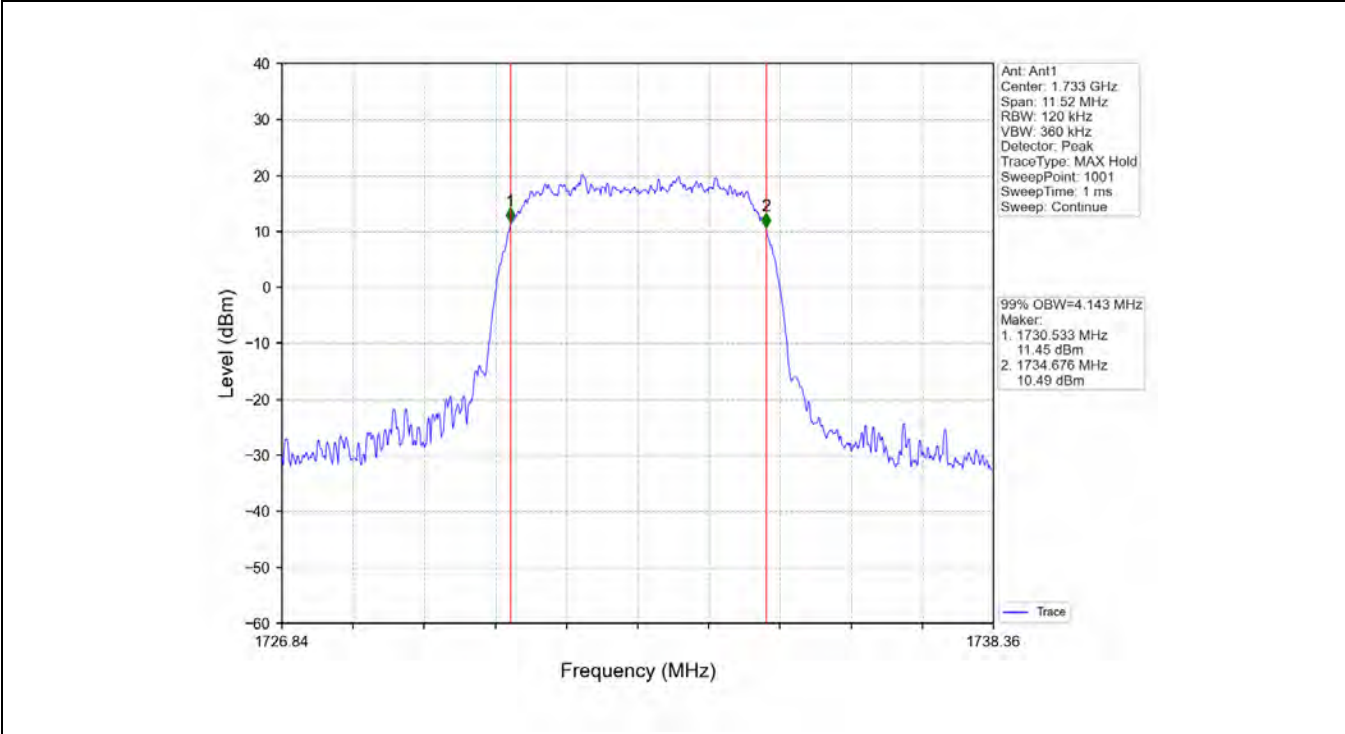
### 2.19.1 Test Result

Band: 4							
ENV	Mode		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Network	Subset	LCH	MCH	HCH		
NTNV	RMC	4.0.2kbps RMC	4.171	4.143	4.156	/	Pass



### 2.19.2 Test Graph





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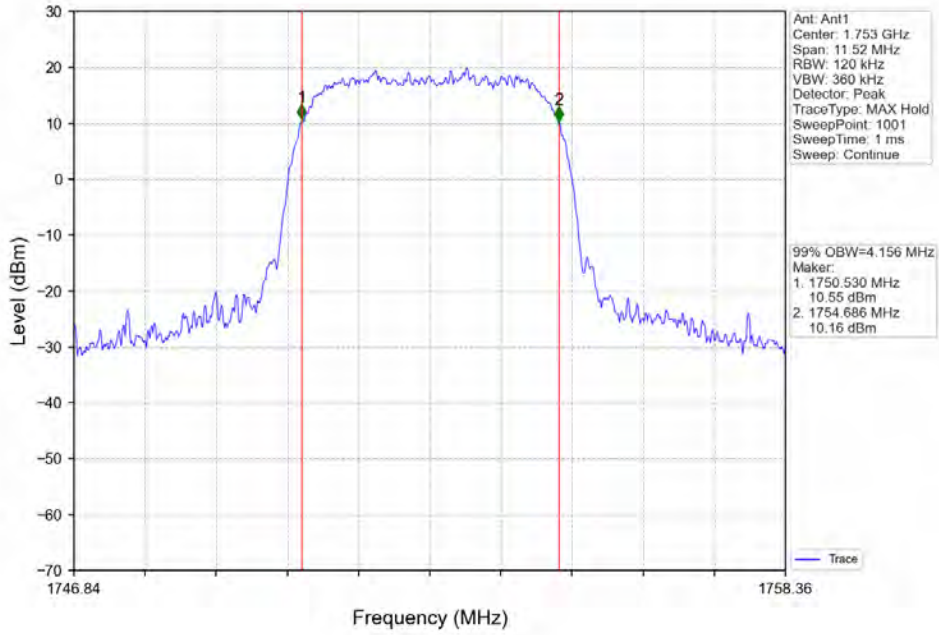
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**Test Report No.: W7L-P20210616-3RF03**

Band 4\_RMC\_HCH\_1752.6MHz\_4.0.2kbps\_RMC\_NTNV



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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

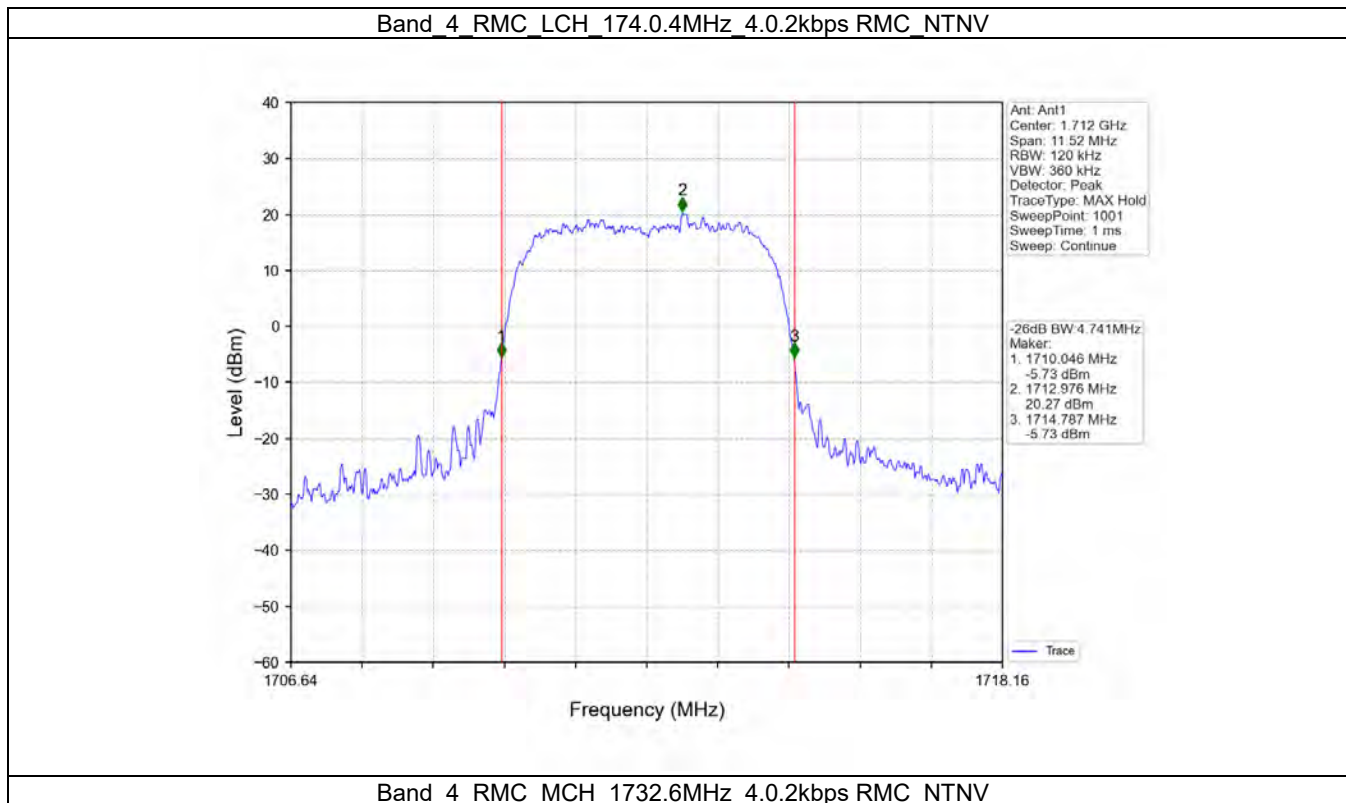
2.20 WCDMA Band4 26DB

2.20.1 Test Result

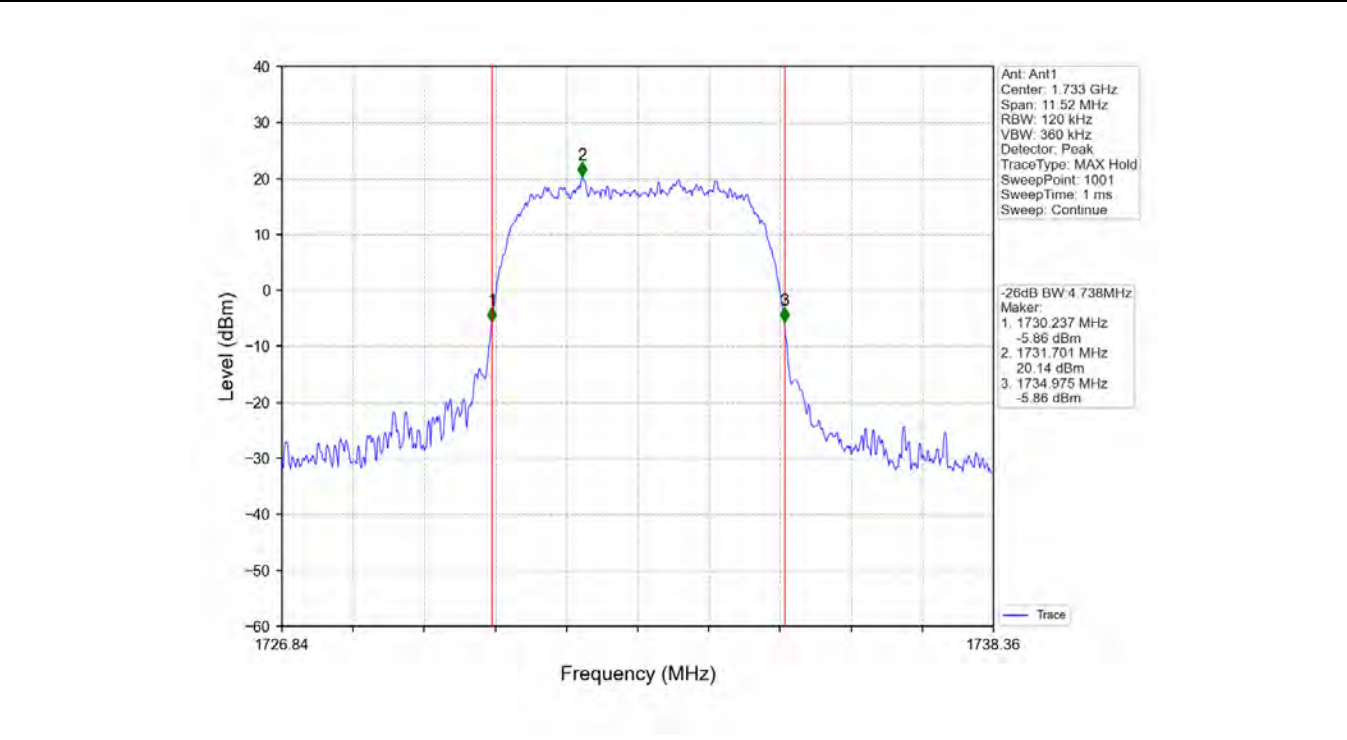
Band: 4							
ENV	Mode		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Network	Subset	LCH	MCH	HCH		
NTNV	RMC	4.0.2kbps RMC	4.741	4.738	4.744	/	Pass



### 2.20.2 Test Graph







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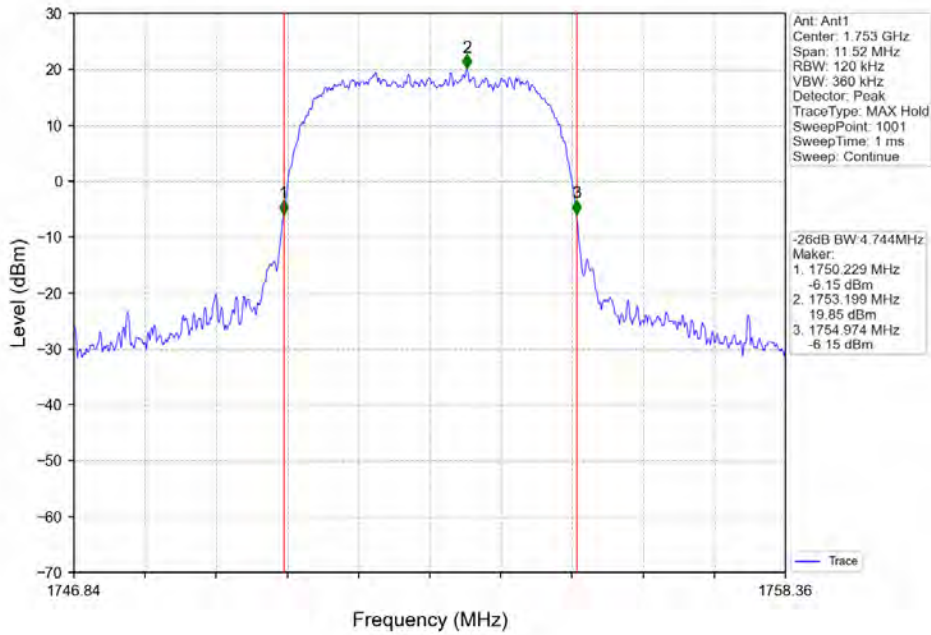
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Band 4 RMC HCH 1752.6MHz 4.0.2kbps RMC NTN



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### 3. Peak-Average Ratio

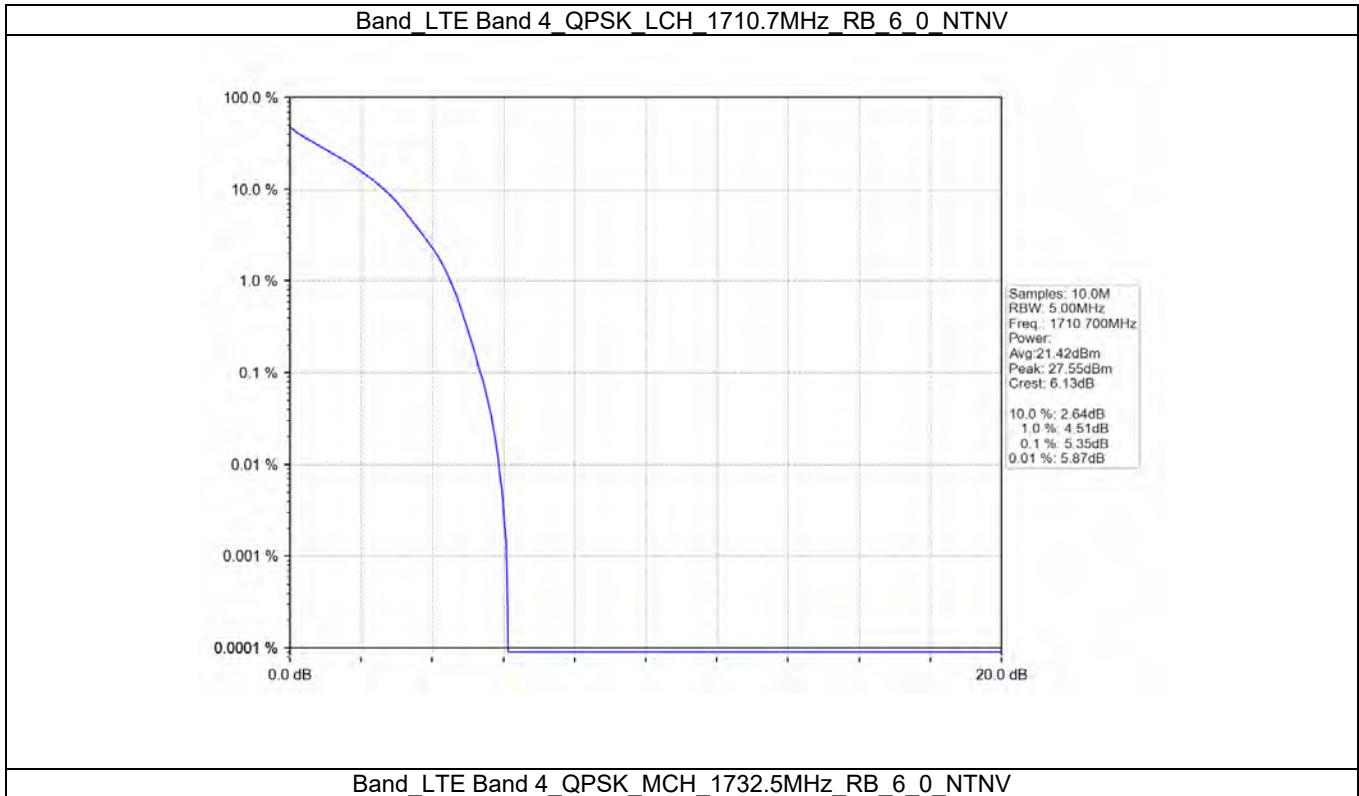
#### 3.1 LTE Band 4

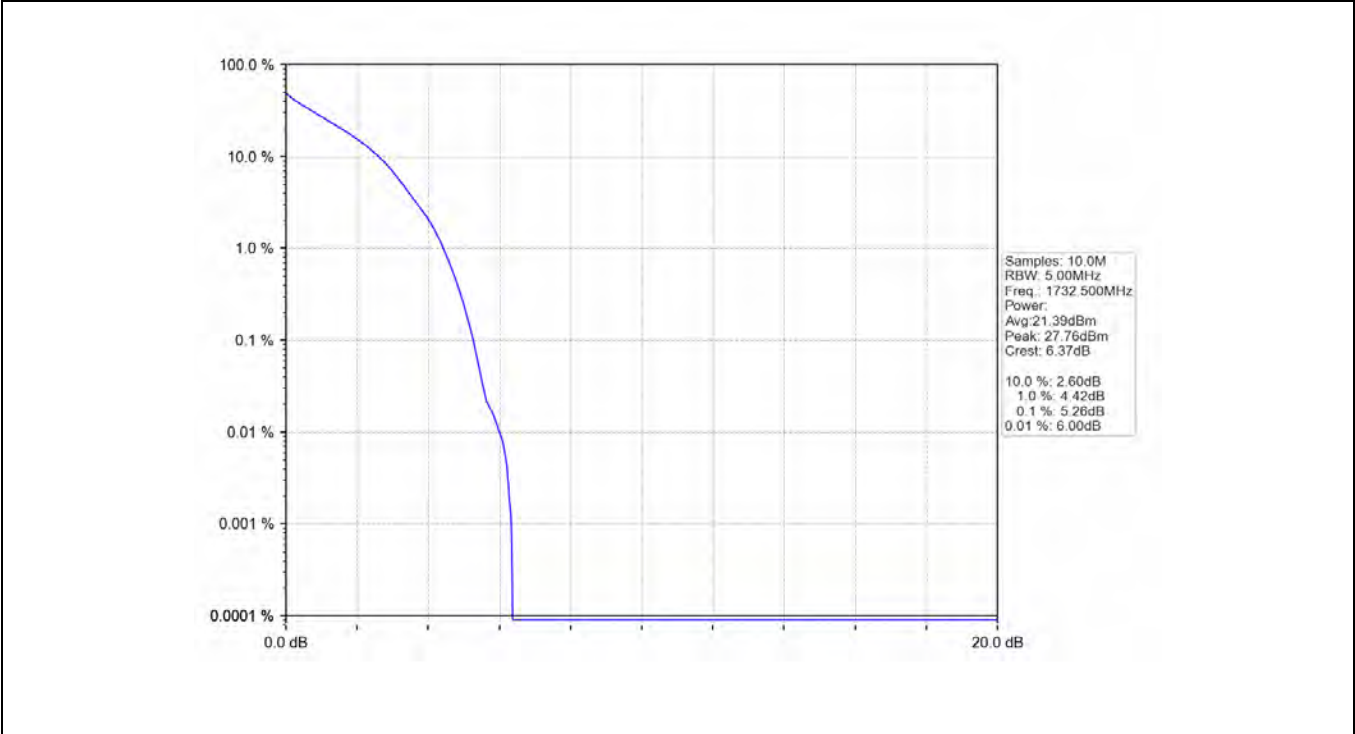
##### 3.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV							
Modulation	RB Allocation		Peak-Average Ratio (dB)				Verdict
	Size	Offset	LCH	MCH	HCH	Limit	
QPSK	6	0	5.35	5.26	5.25	<=13	Pass
16QAM	6	0	6.04	6.03	5.94	<=13	Pass
64QAM	6	0	6.06	6.01	5.99	<=13	Pass
Band: 4 / Bandwidth: 3MHz / NTV							
Modulation	RB Allocation		Peak-Average Ratio (dB)				Verdict
	Size	Offset	LCH	MCH	HCH	Limit	
QPSK	15	0	5.20	5.19	5.11	<=13	Pass
16QAM	15	0	5.96	5.97	5.89	<=13	Pass
64QAM	15	0	5.95	5.95	5.89	<=13	Pass
Band: 4 / Bandwidth: 5MHz / NTV							
Modulation	RB Allocation		Peak-Average Ratio (dB)				Verdict
	Size	Offset	LCH	MCH	HCH	Limit	
QPSK	25	0	5.29	5.27	5.23	<=13	Pass
16QAM	25	0	5.99	5.95	5.91	<=13	Pass
64QAM	25	0	5.95	5.96	5.90	<=13	Pass
Band: 4 / Bandwidth: 10MHz / NTV							
Modulation	RB Allocation		Peak-Average Ratio (dB)				Verdict
	Size	Offset	LCH	MCH	HCH	Limit	
QPSK	50	0	4.58	4.53	4.57	<=13	Pass
16QAM	50	0	6.02	5.99	5.93	<=13	Pass
64QAM	50	0	6.03	5.96	5.94	<=13	Pass
Band: 4 / Bandwidth: 15MHz / NTV							
Modulation	RB Allocation		Peak-Average Ratio (dB)				Verdict
	Size	Offset	LCH	MCH	HCH	Limit	
QPSK	75	0	5.81	5.72	5.77	<=13	Pass
16QAM	75	0	6.79	6.77	6.79	<=13	Pass
64QAM	75	0	6.80	6.74	6.79	<=13	Pass
Band: 4 / Bandwidth: 20MHz / NTV							
Modulation	RB Allocation		Peak-Average Ratio (dB)				Verdict
	Size	Offset	LCH	MCH	HCH	Limit	
QPSK	100	0	6.44	6.35	6.44	<=13	Pass
16QAM	100	0	7.13	6.99	7.18	<=13	Pass
64QAM	100	0	7.15	7.01	7.20	<=13	Pass



3.1.2 Test Graph





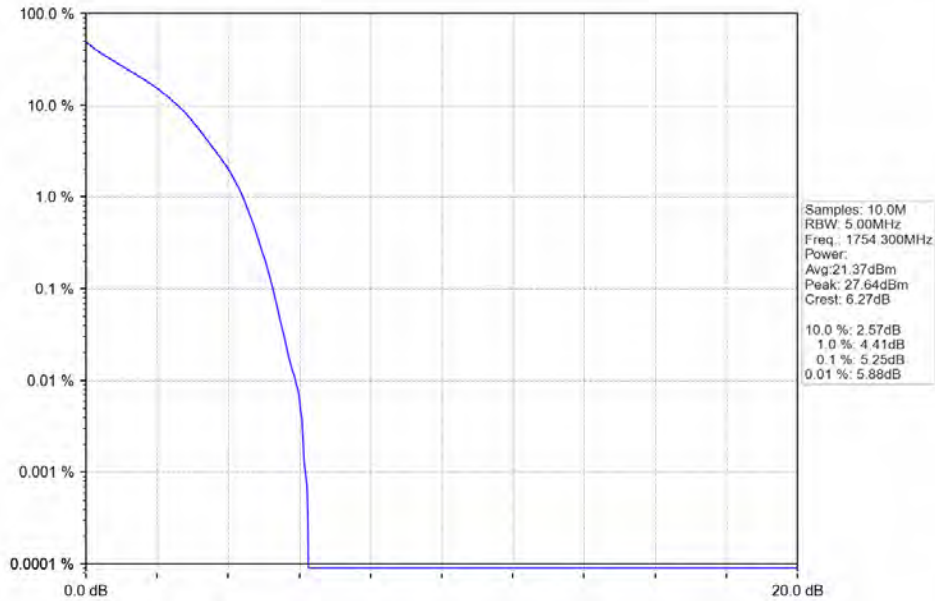
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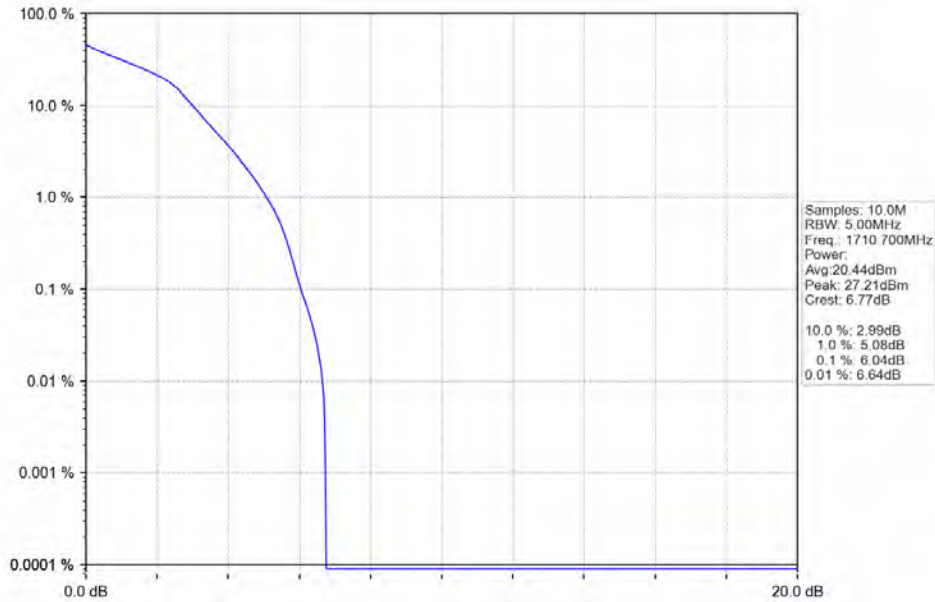
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Band LTE Band 4 QPSK HCH 1754.3MHz RB 6 0 NTV

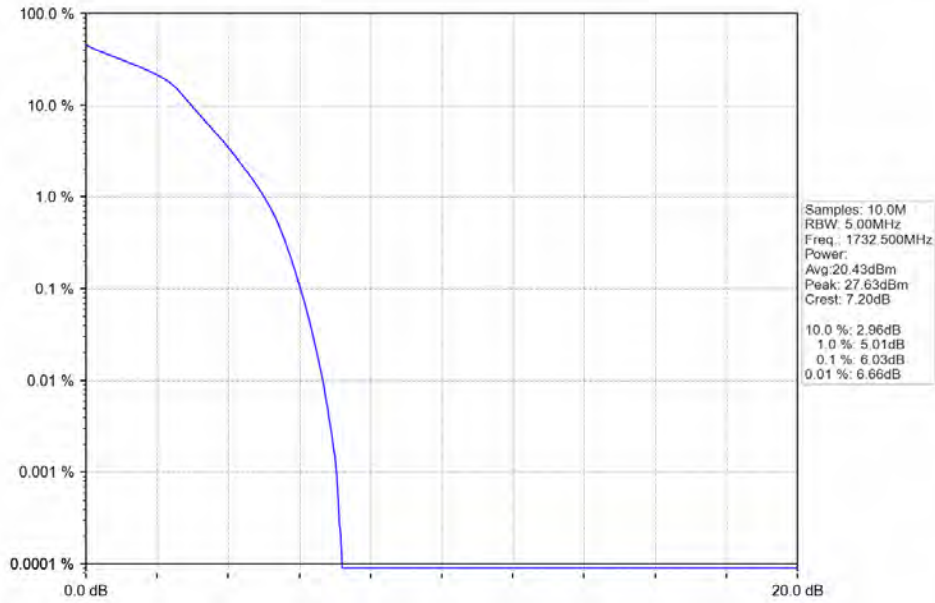


Band LTE Band 4 16QAM LCH 1710.7MHz RB 6 0 NTV

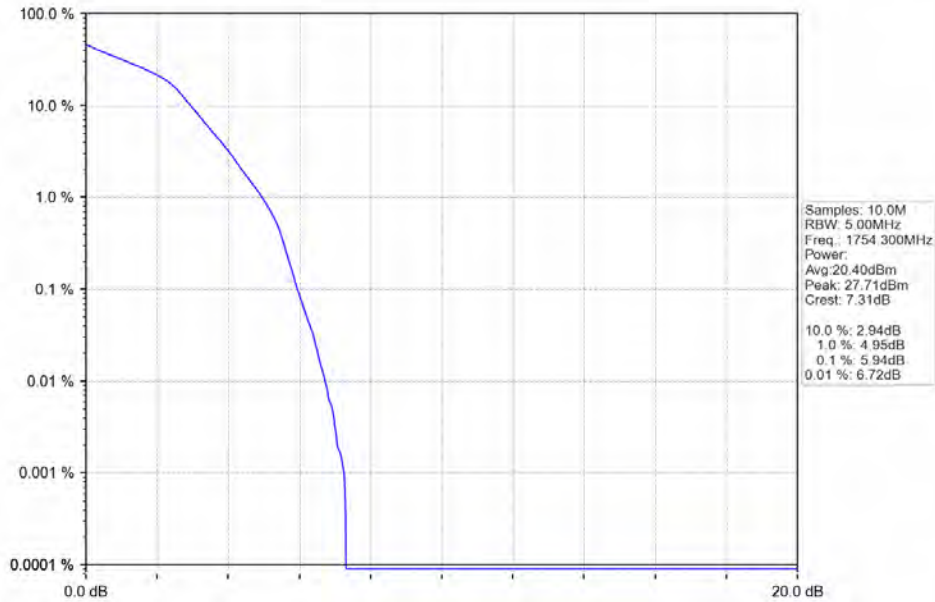




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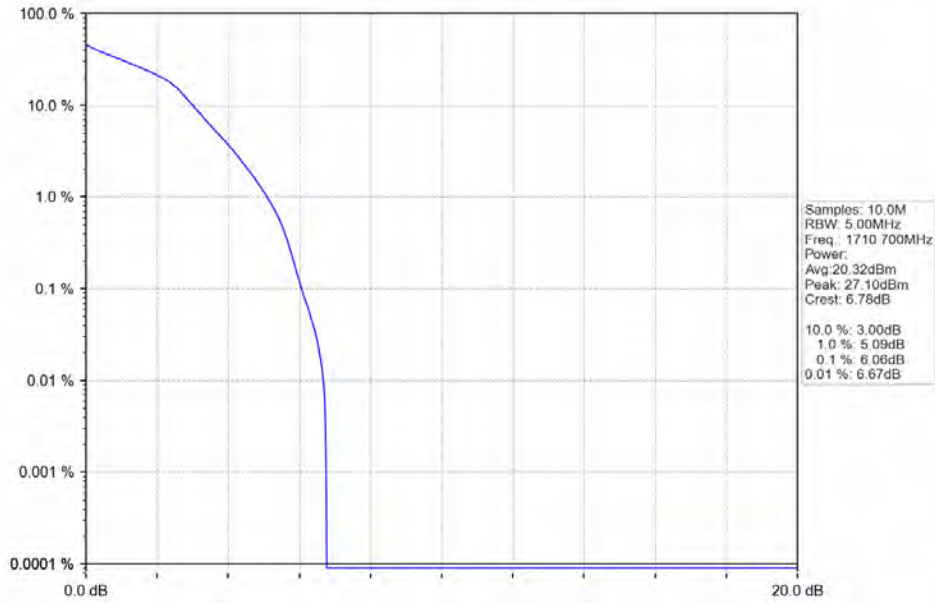




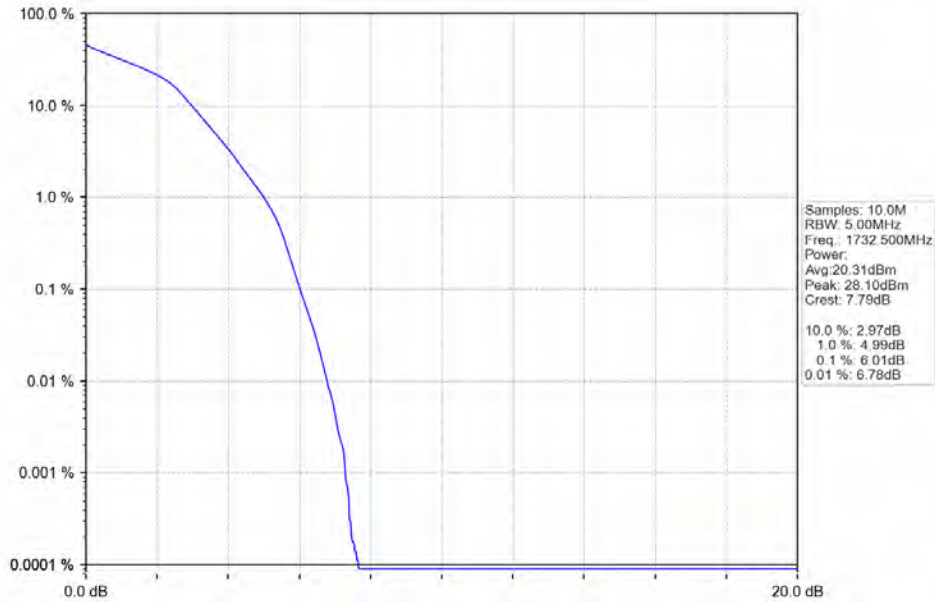
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Band\_LTE Band 4\_64QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



Band\_LTE Band 4\_64QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



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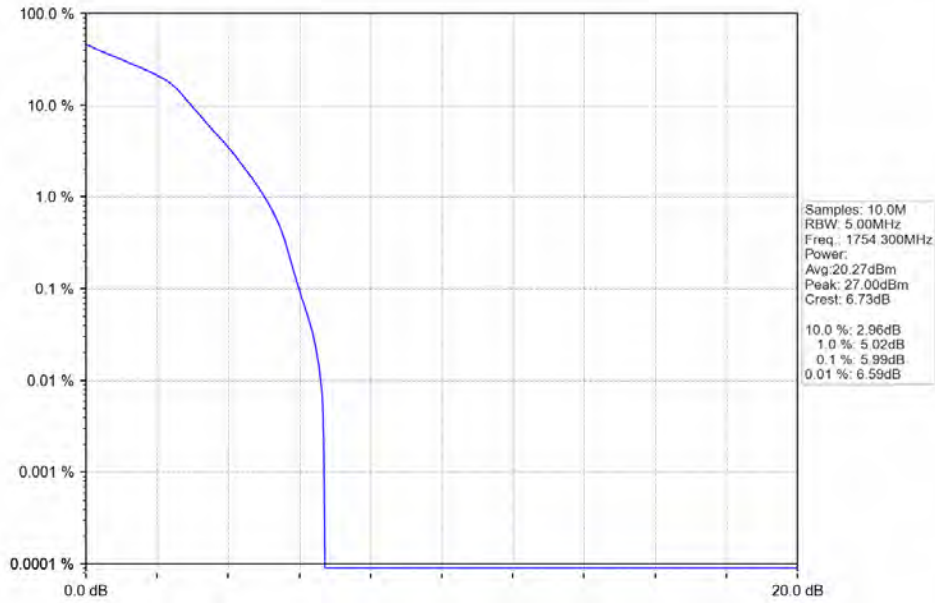
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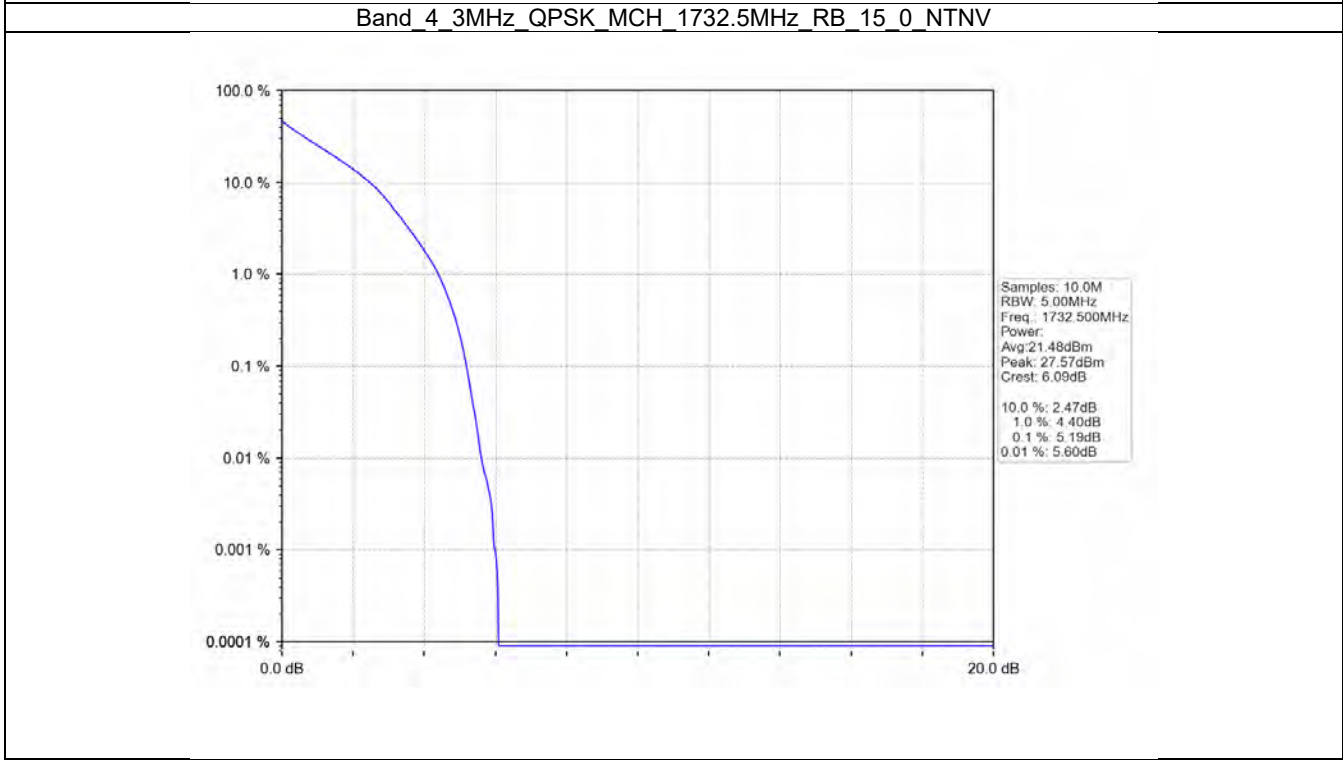
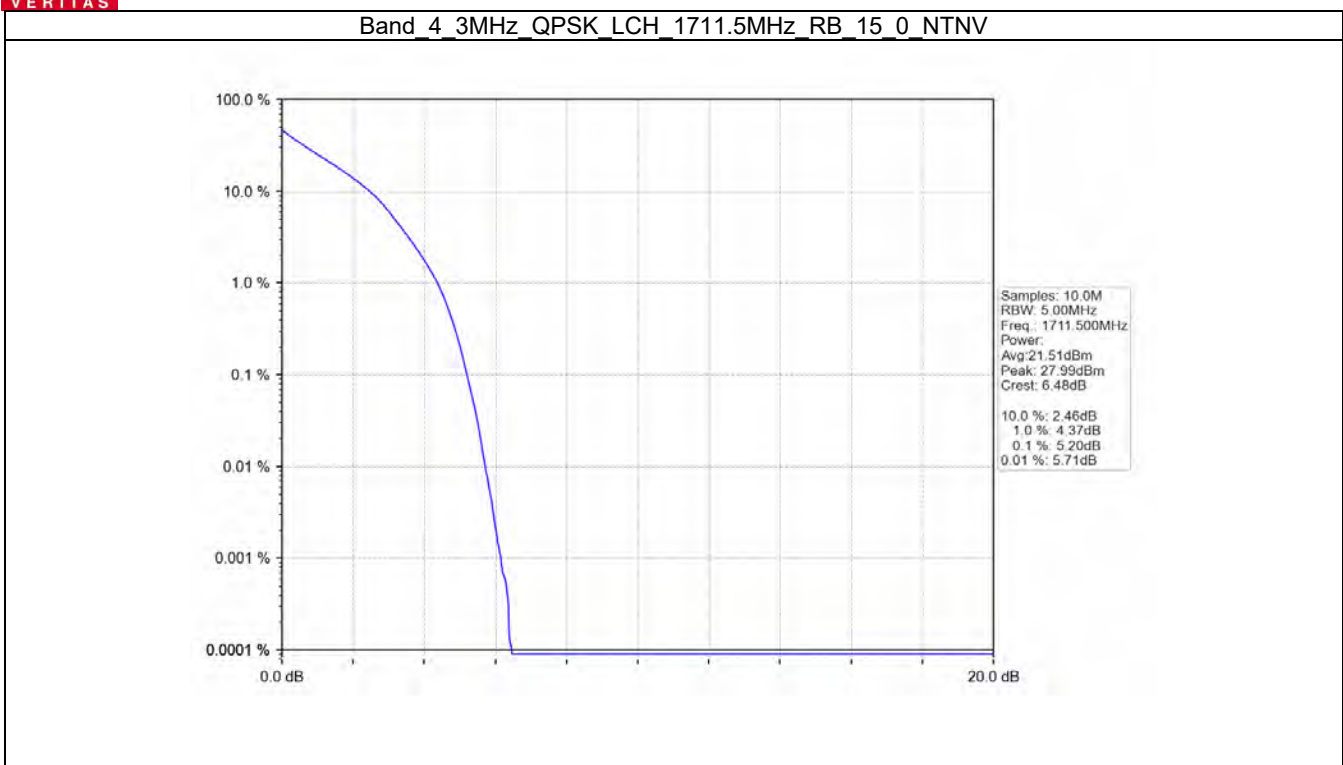
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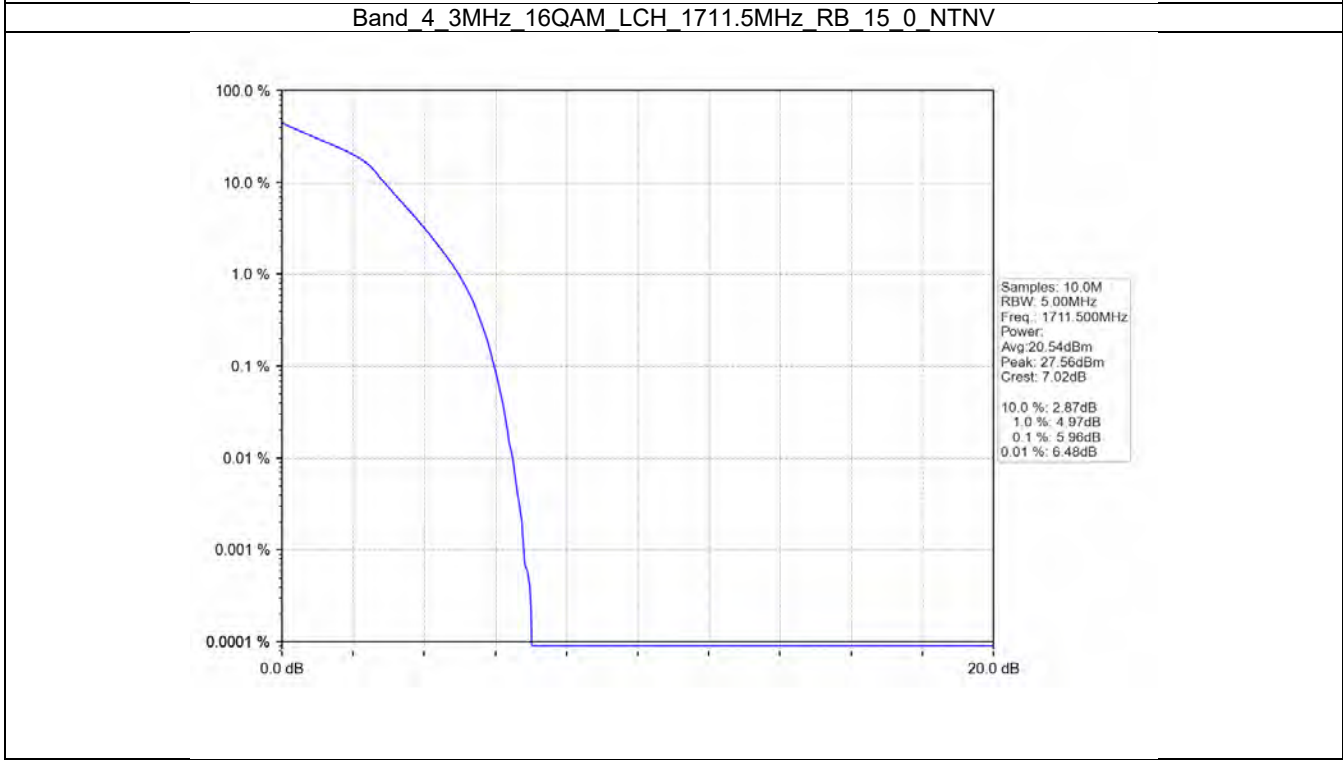
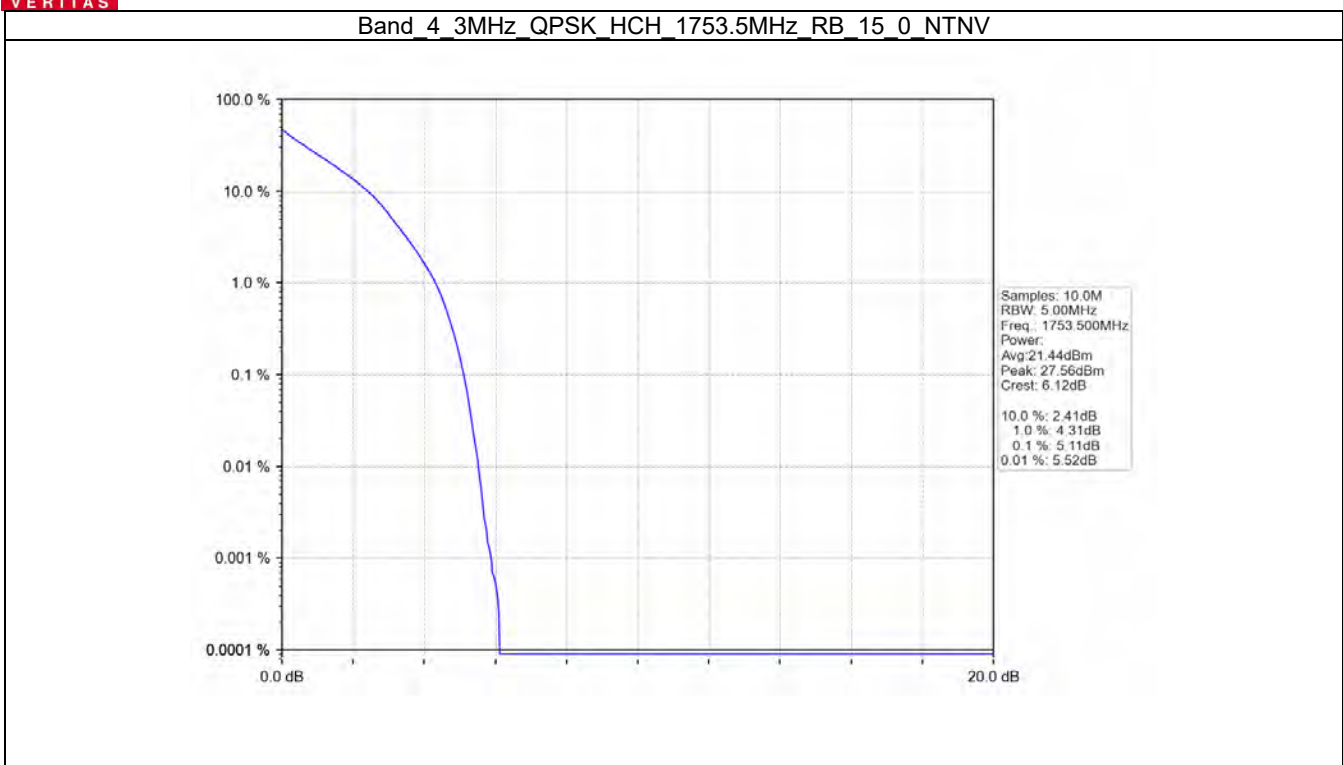




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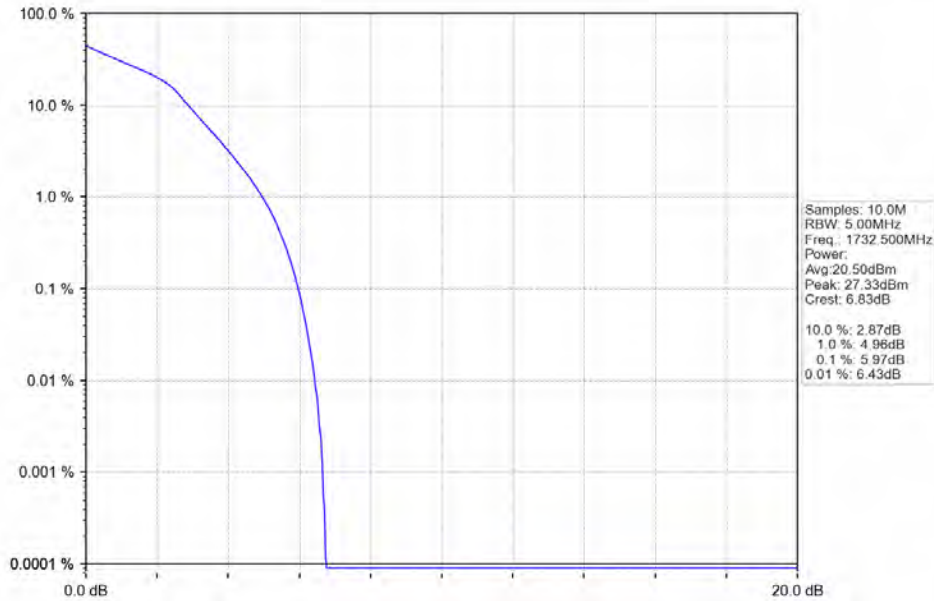




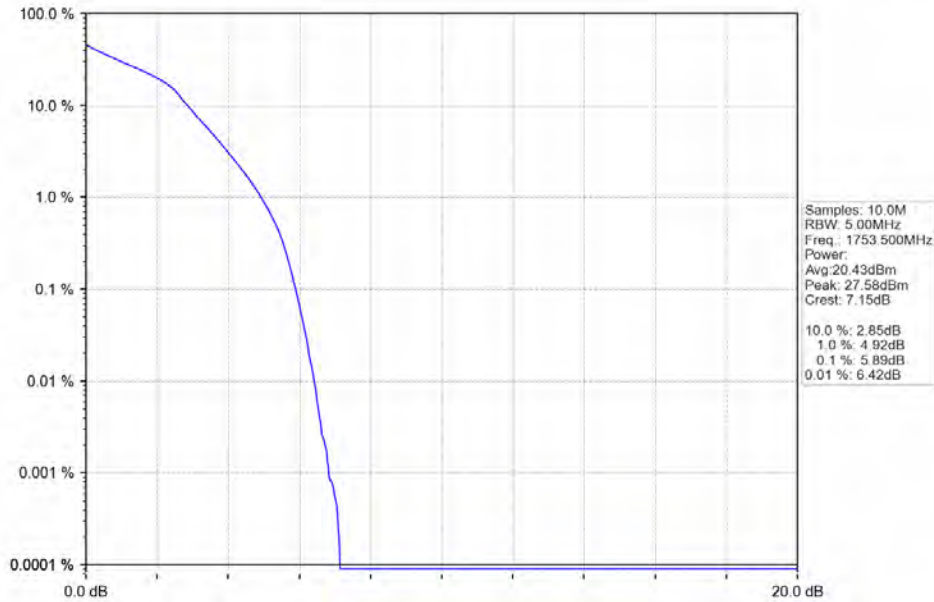




Band 4 3MHz 16QAM MCH 1732.5MHz RB 15\_0 NTN

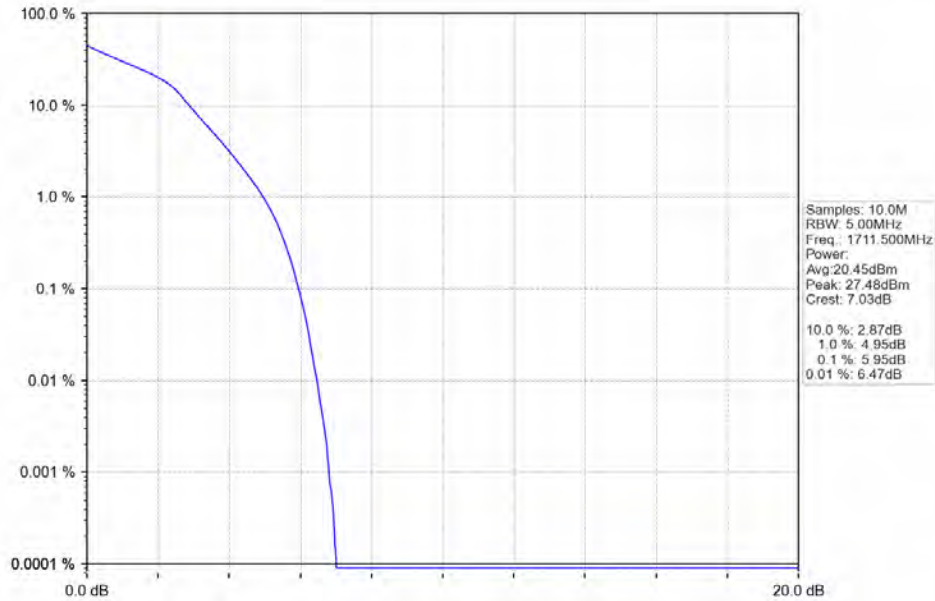


Band 4 3MHz 16QAM HCH 1753.5MHz RB 15\_0 NTN

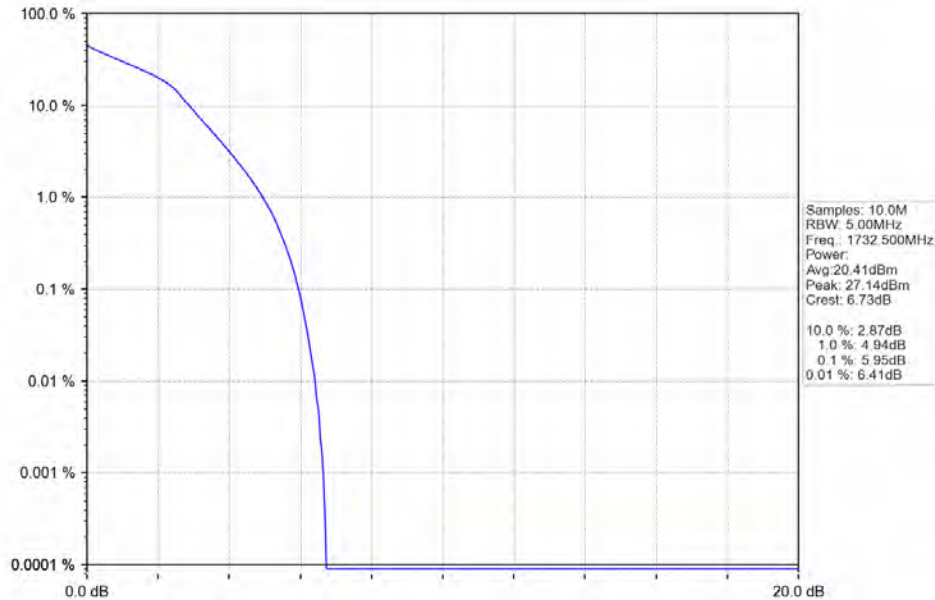




Band 4 3MHz 64QAM LCH 1711.5MHz RB 15 0 NTN



Band 4 3MHz 64QAM MCH 1732.5MHz RB 15 0 NTN

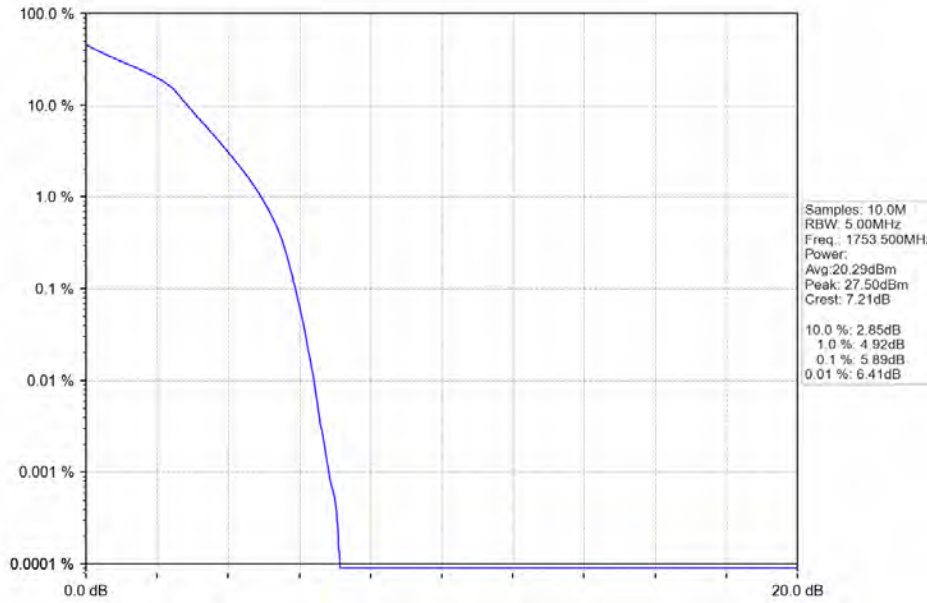




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Band 4 3MHz 64QAM HCH 1753.5MHz RB 15.0 NTNV



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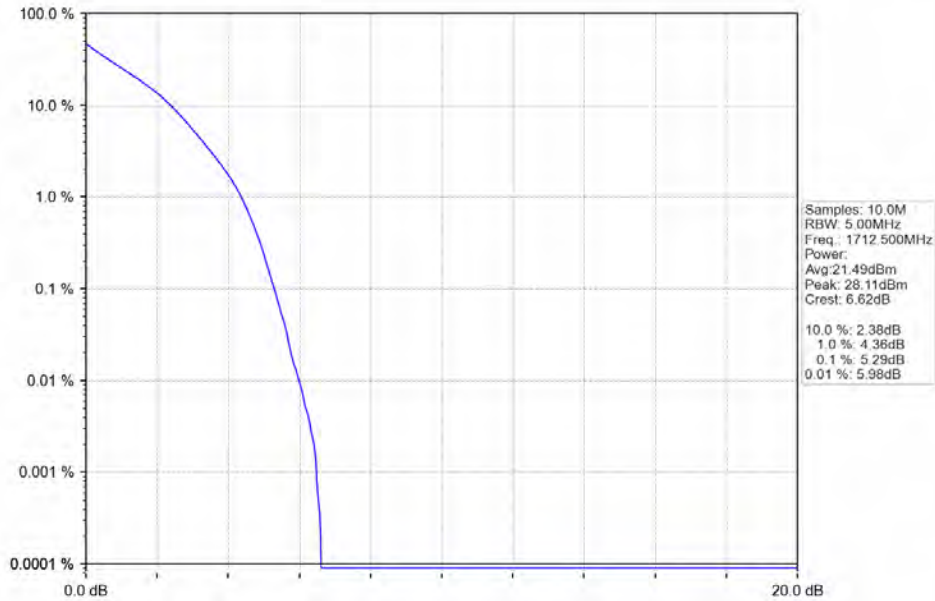
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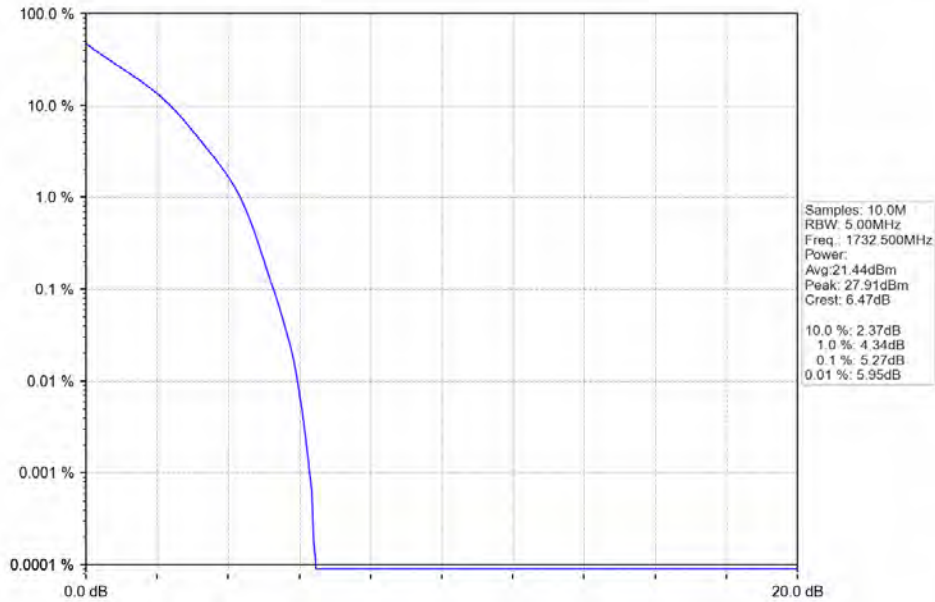
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**Band 4 5MHz QPSK LCH 174.0.5MHz RB 25 0 NTVN**

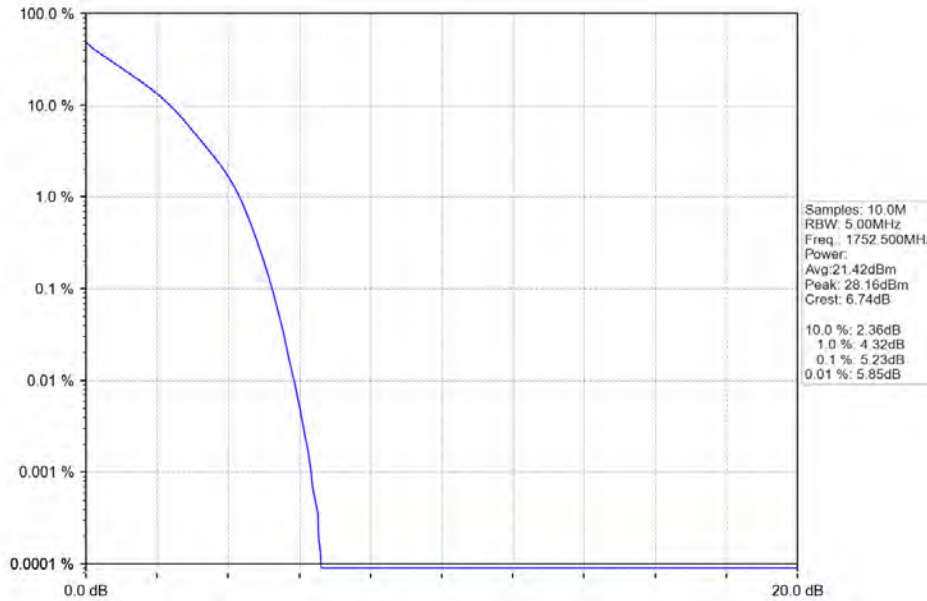


**Band 4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTVN**

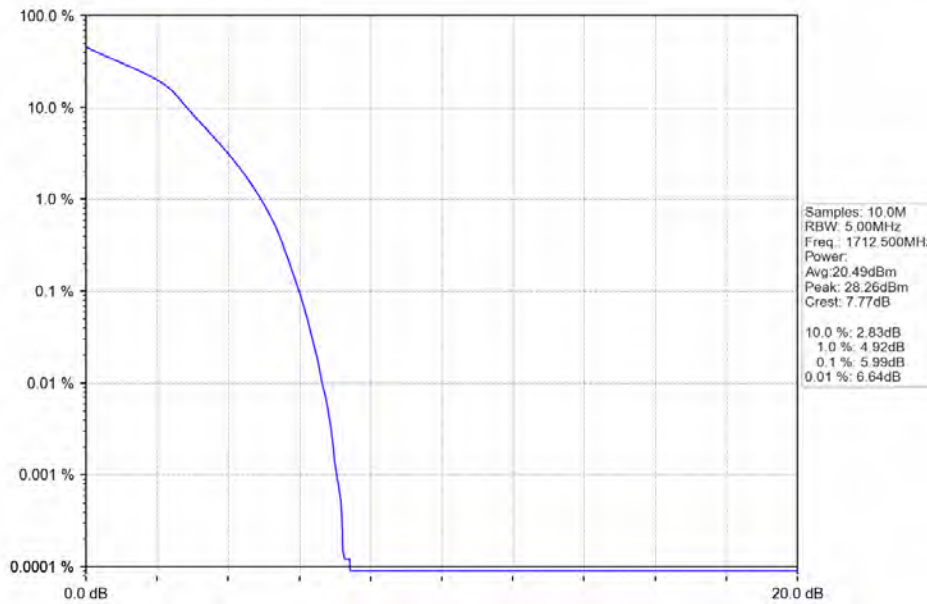




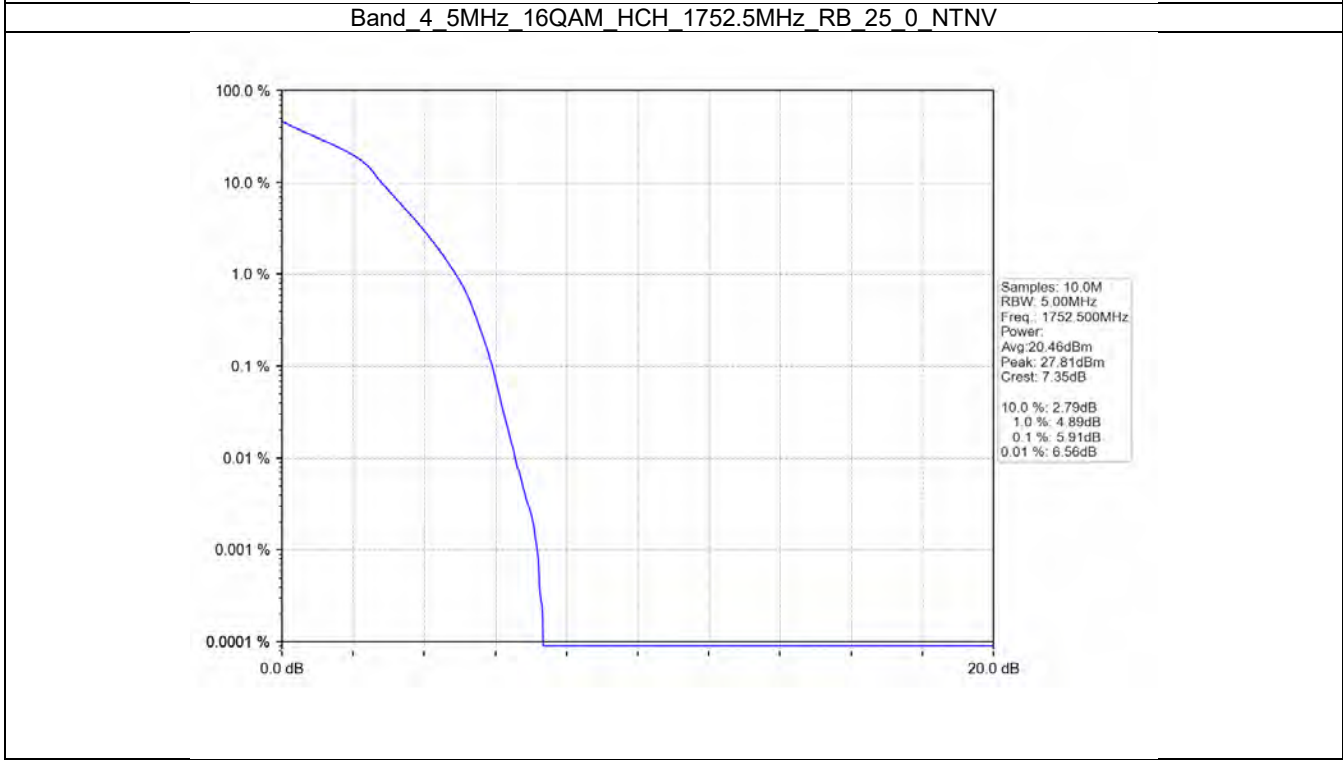
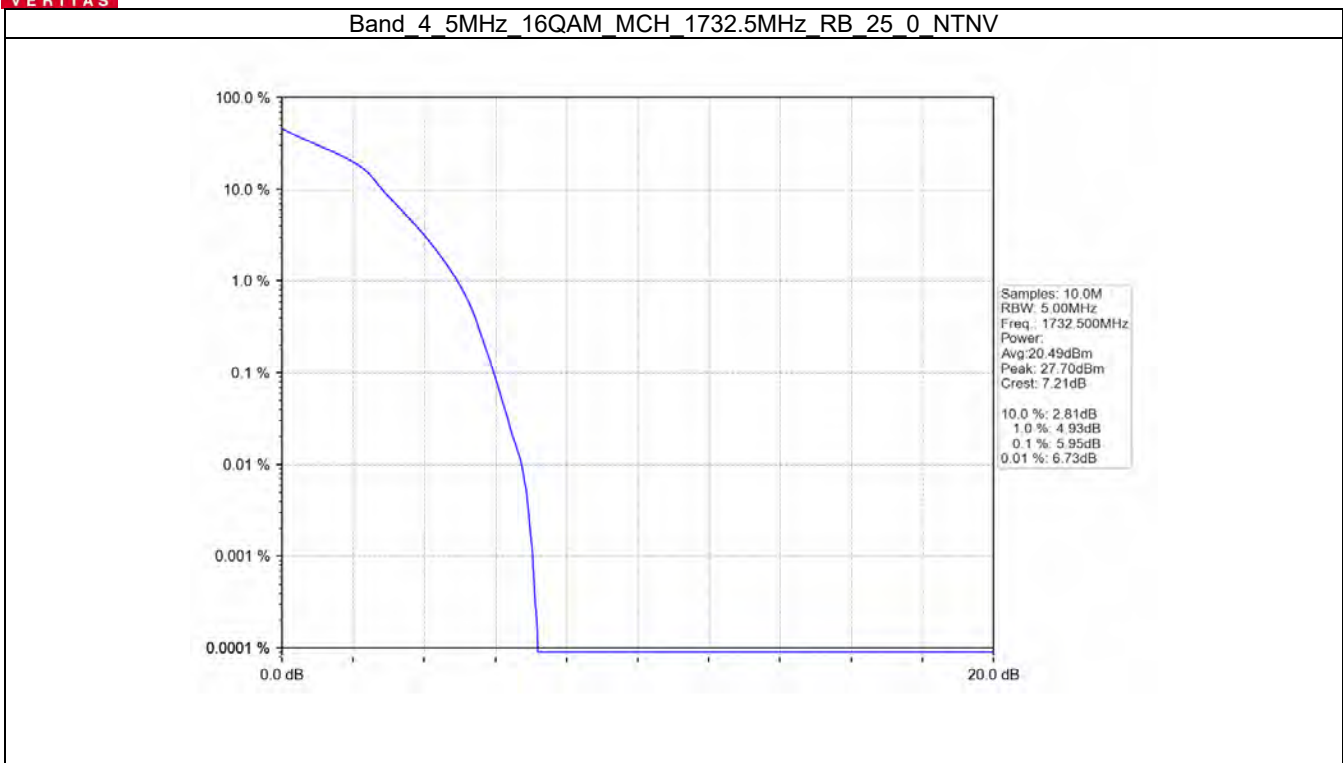
**Band 4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTN**



**Band 4 5MHz 16QAM LCH 174.0.5MHz RB 25 0 NTN**

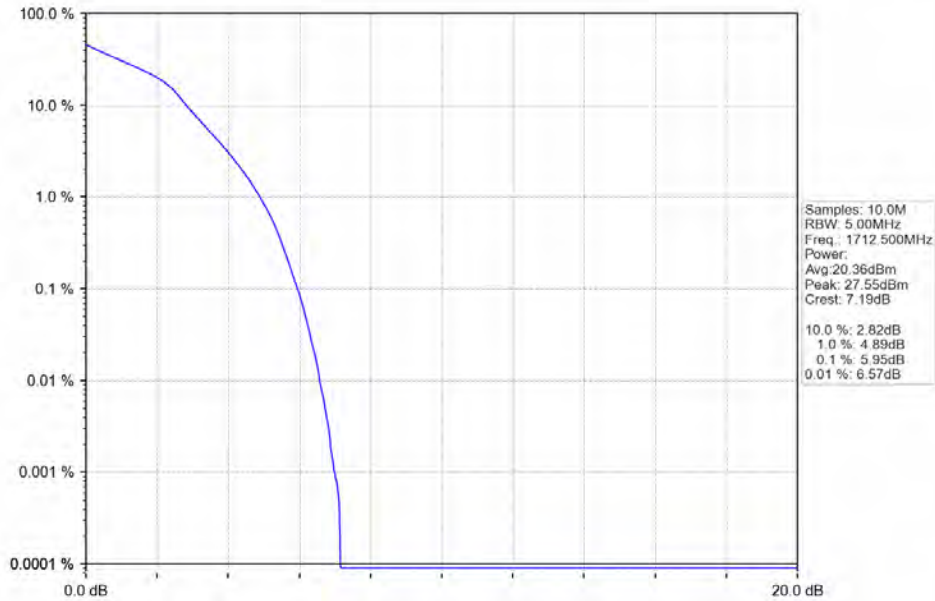




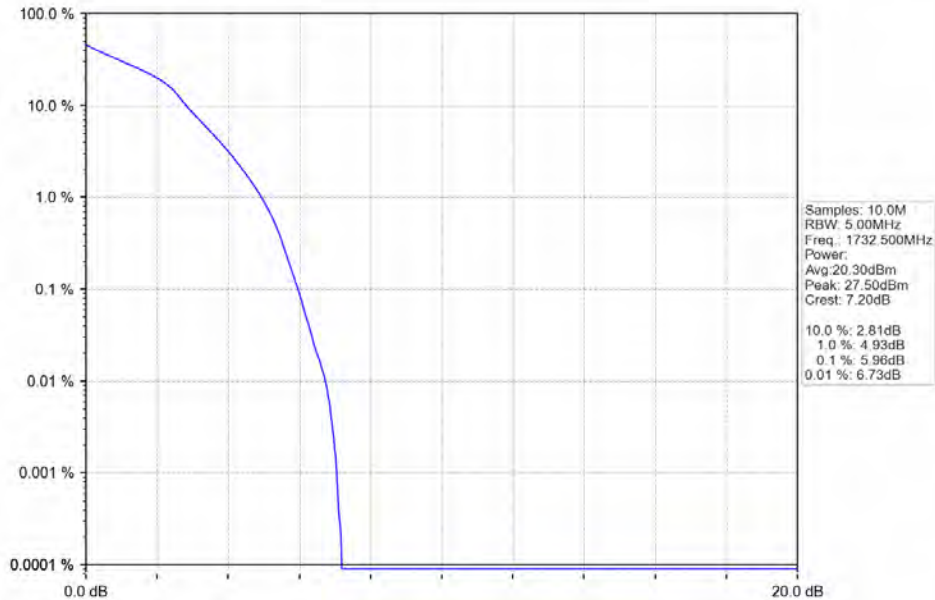




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Band 4 5MHz 64QAM MCH 1732.5MHz RB 25 0 NTN

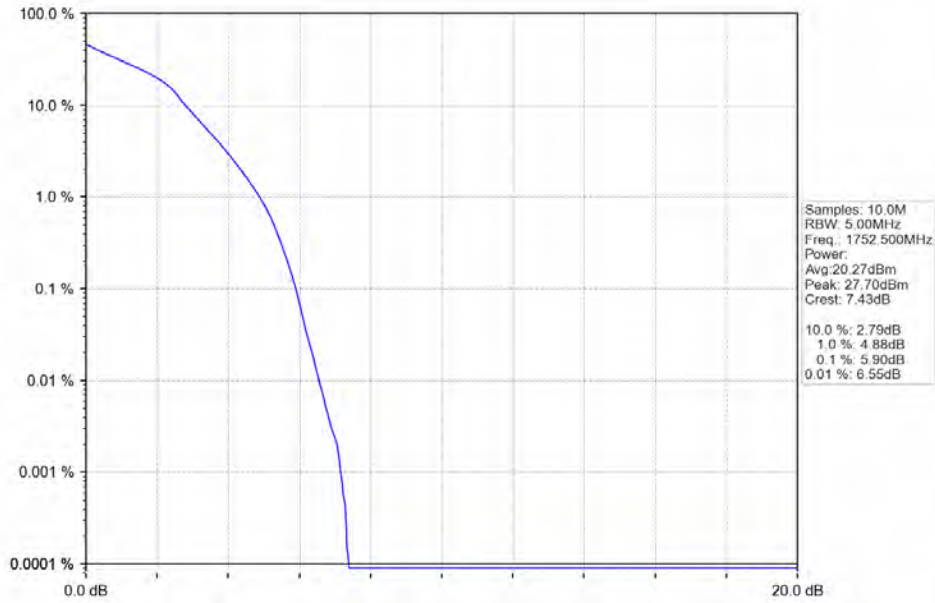




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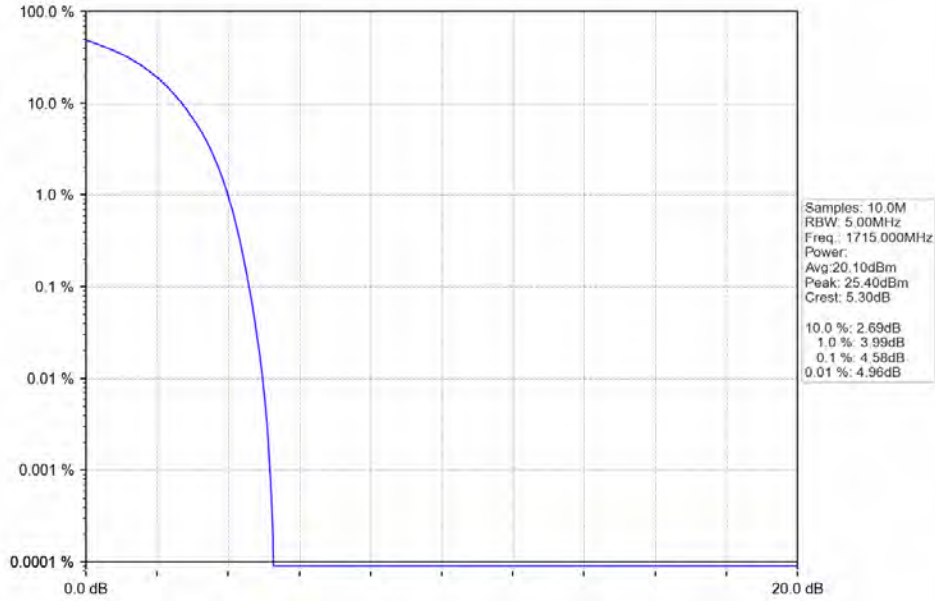
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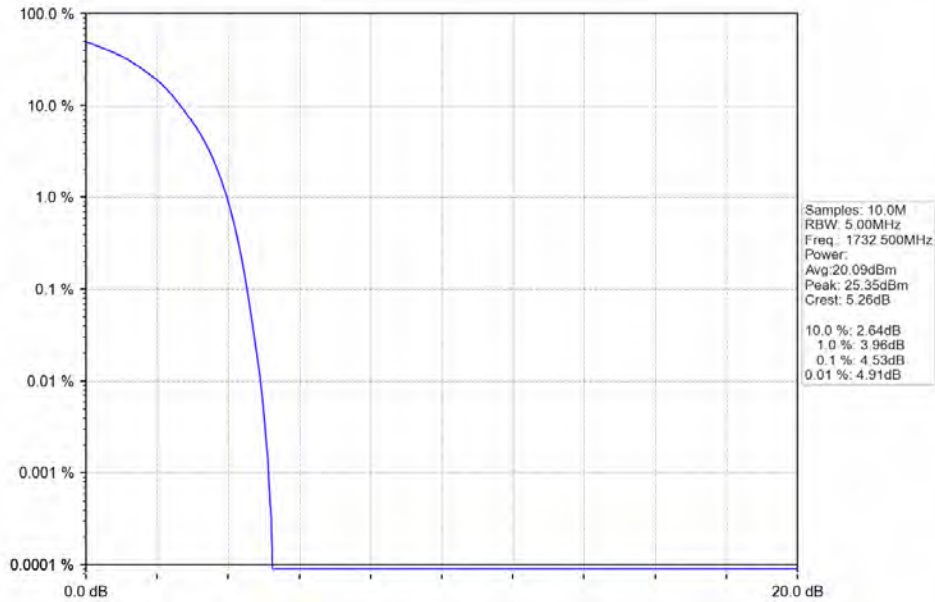
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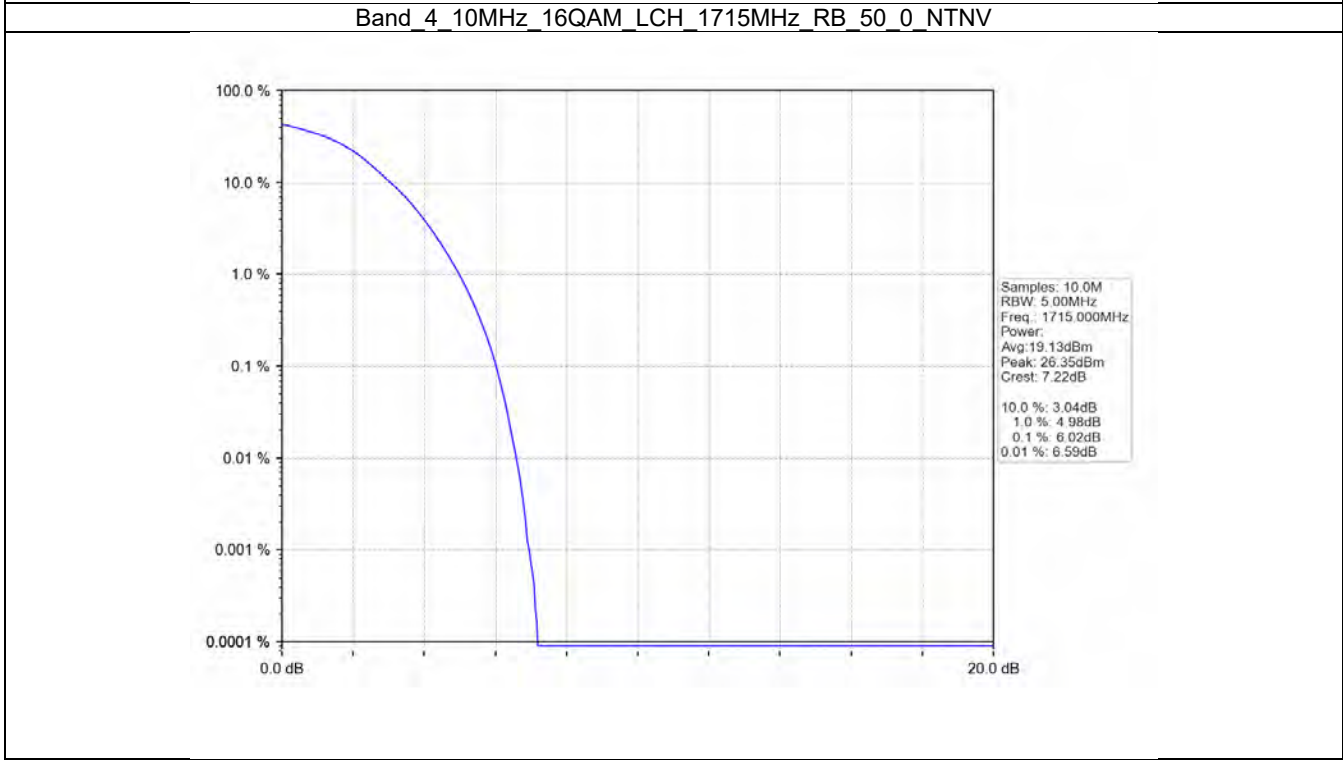
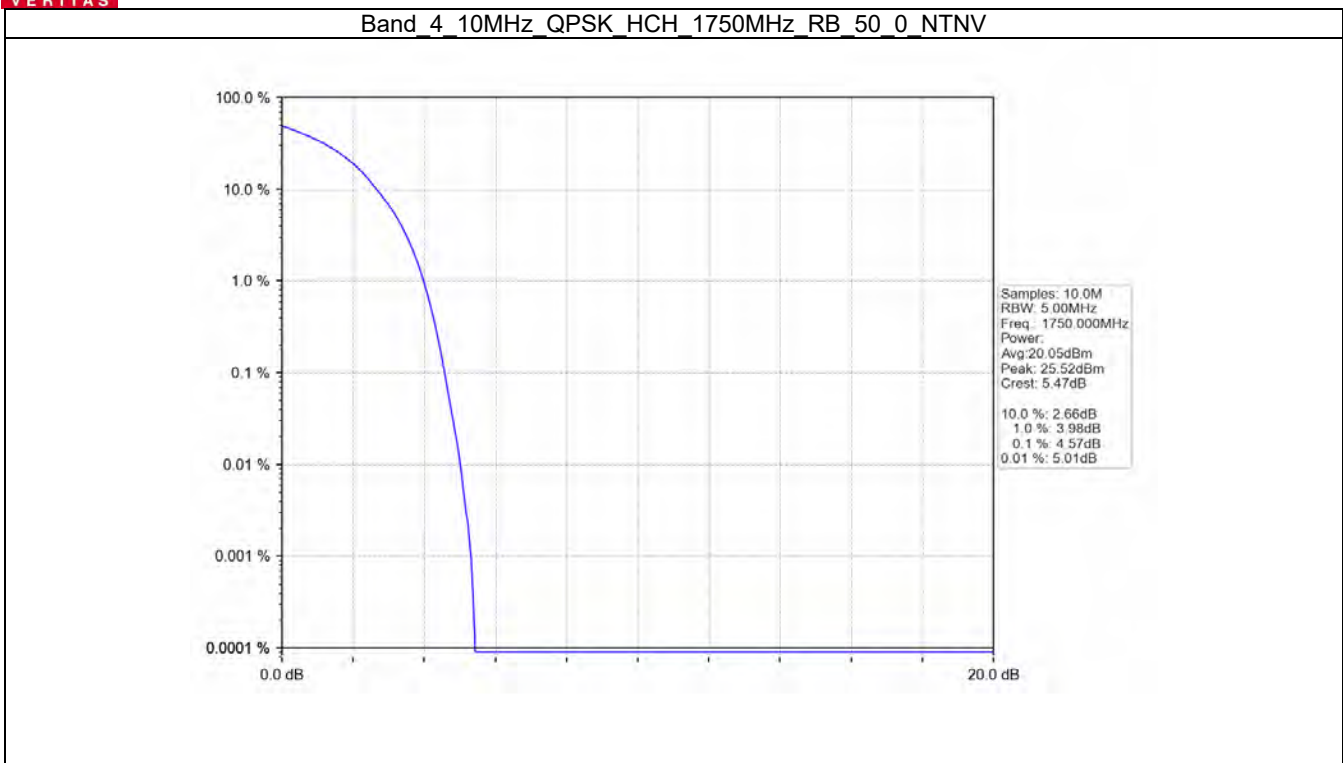


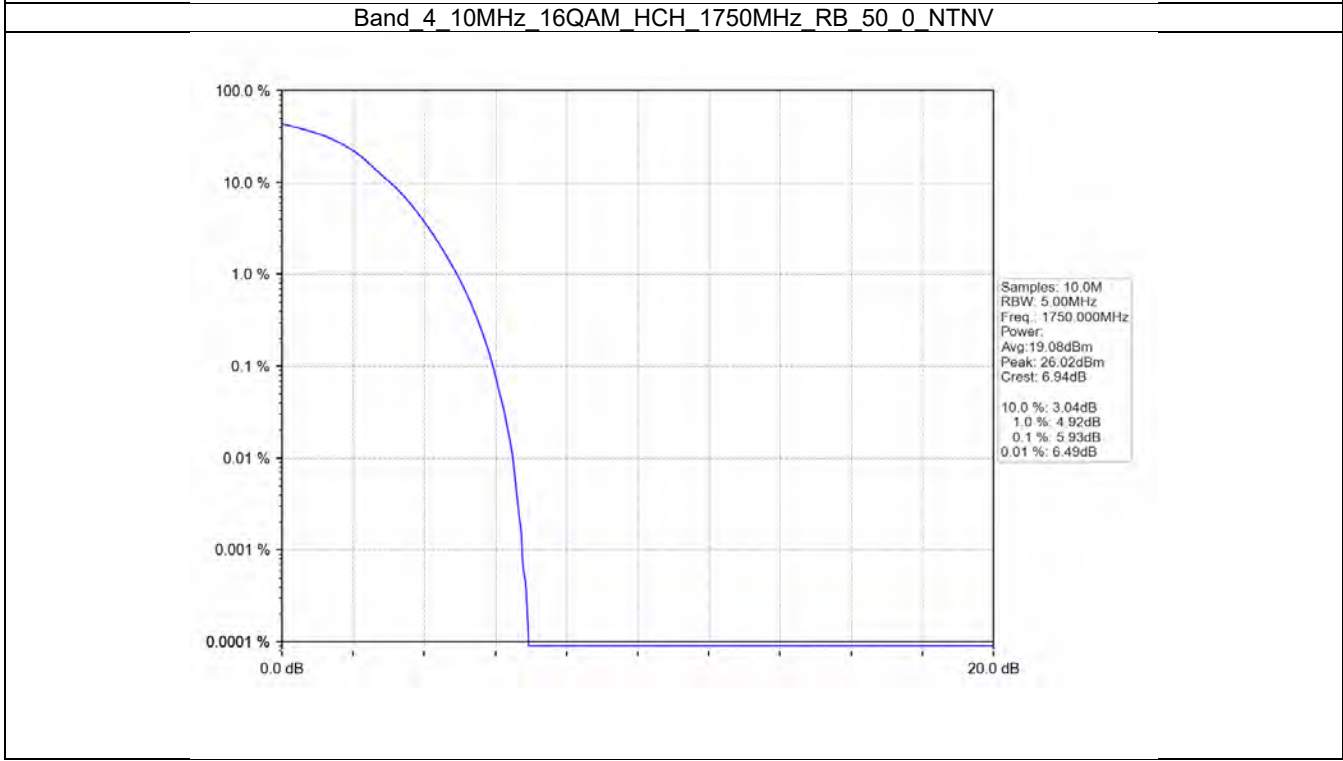
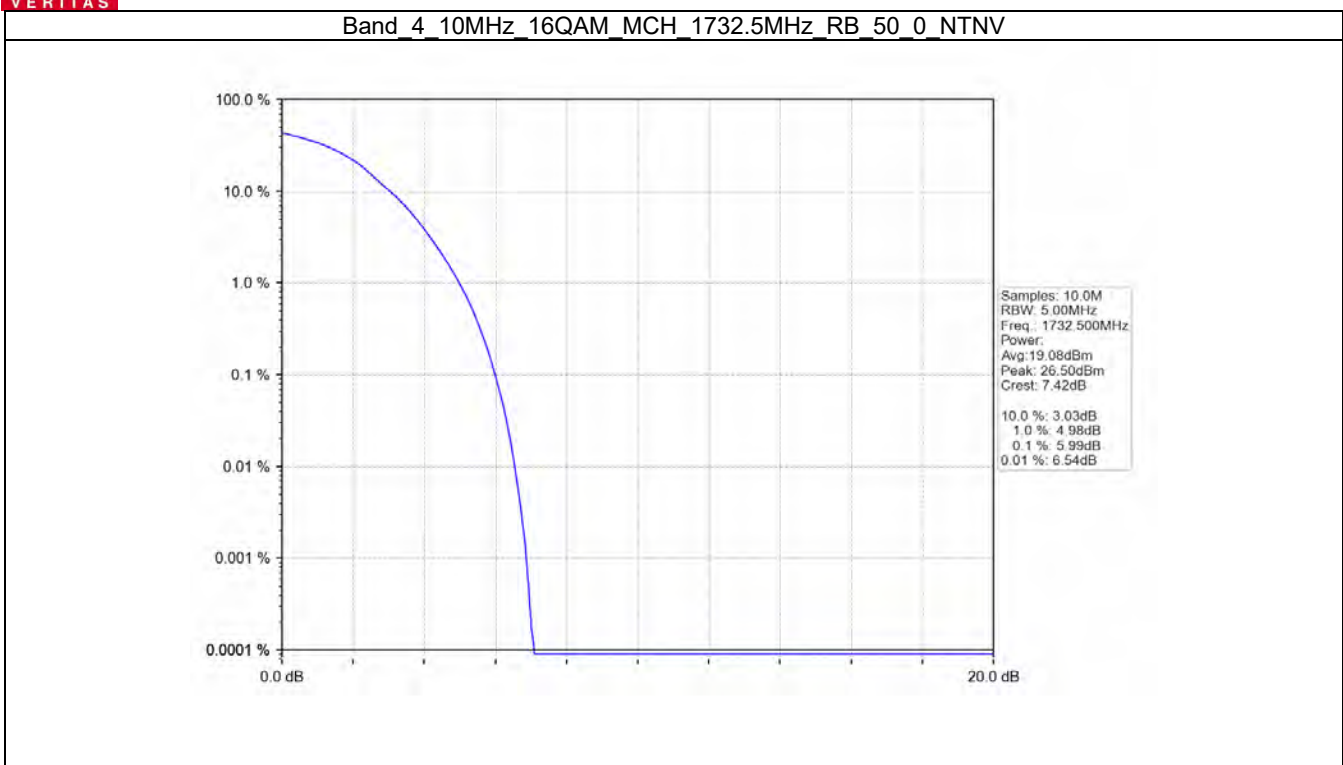
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Band 4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTV



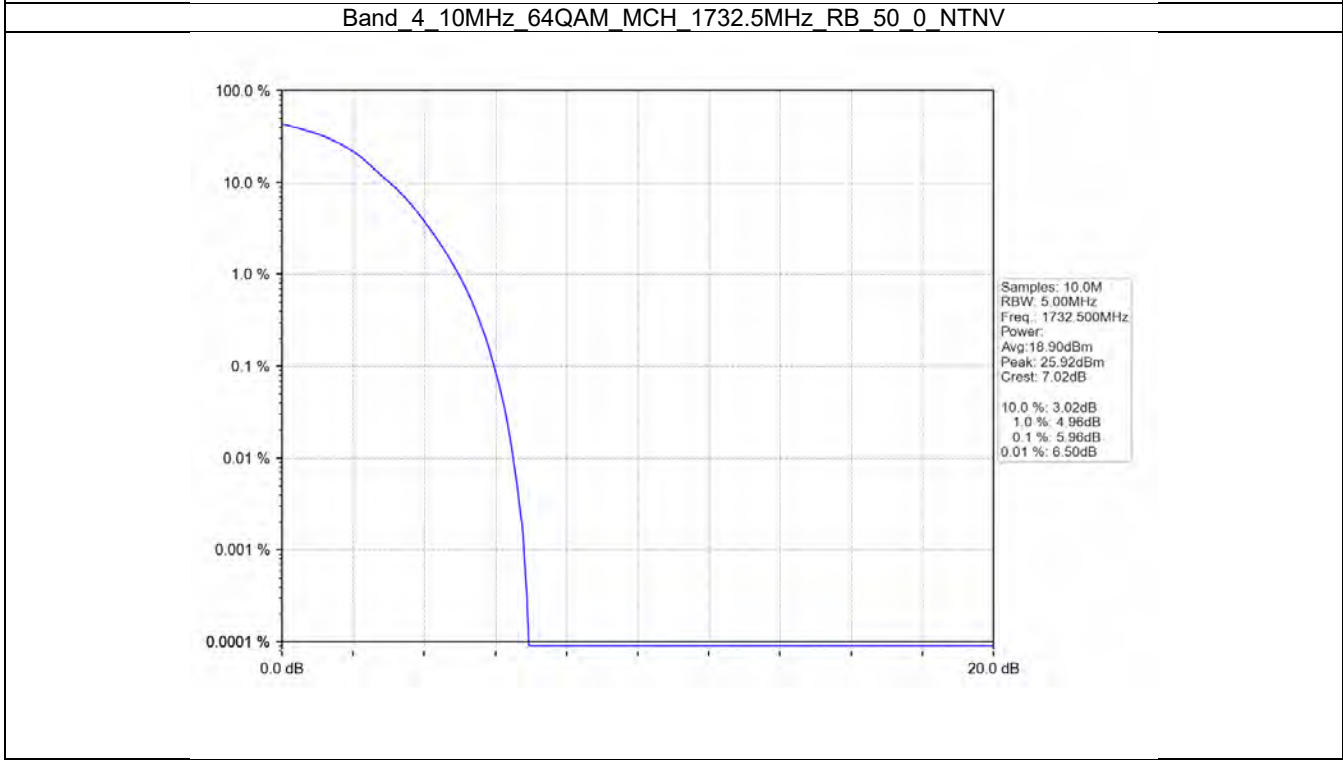
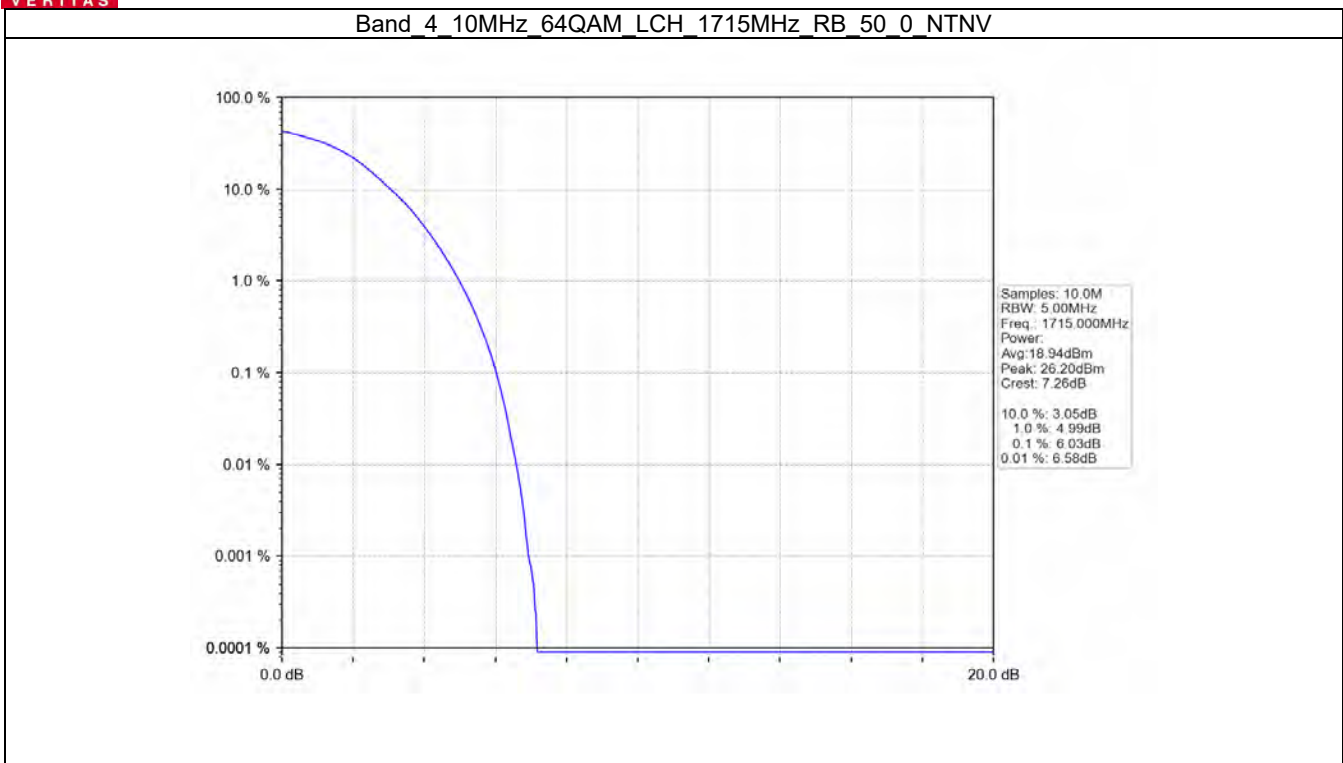




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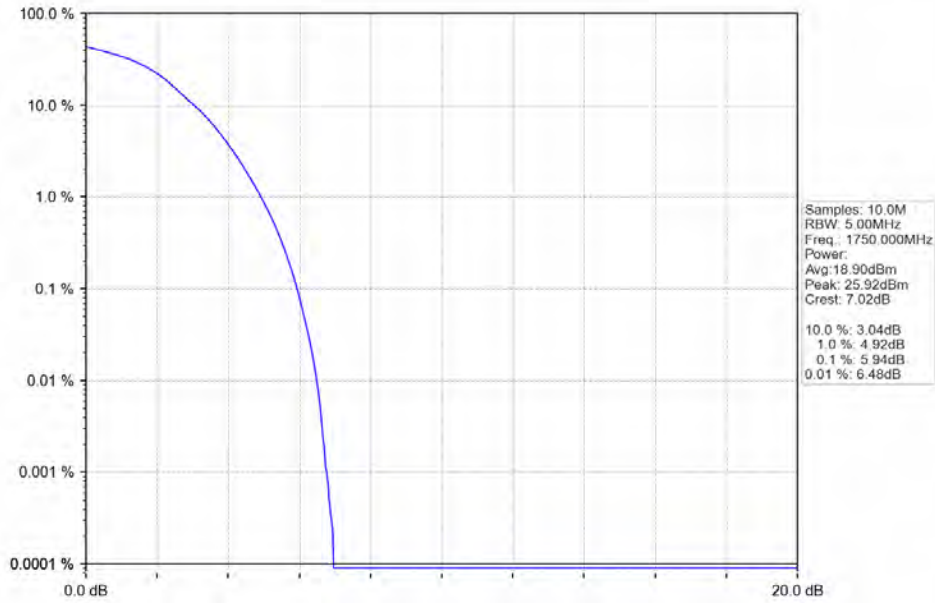




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**Test Report No.: W7L-P20210616-3RF03**

Band 4 10MHz 64QAM HCH 1750MHz RB 50 0 NTVN



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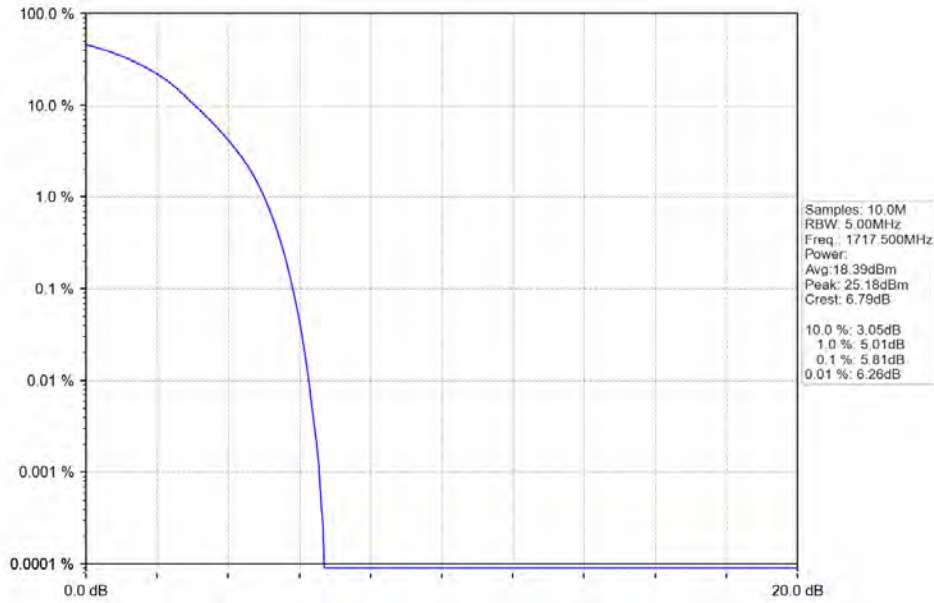
Fax: +86 755 8869 6577

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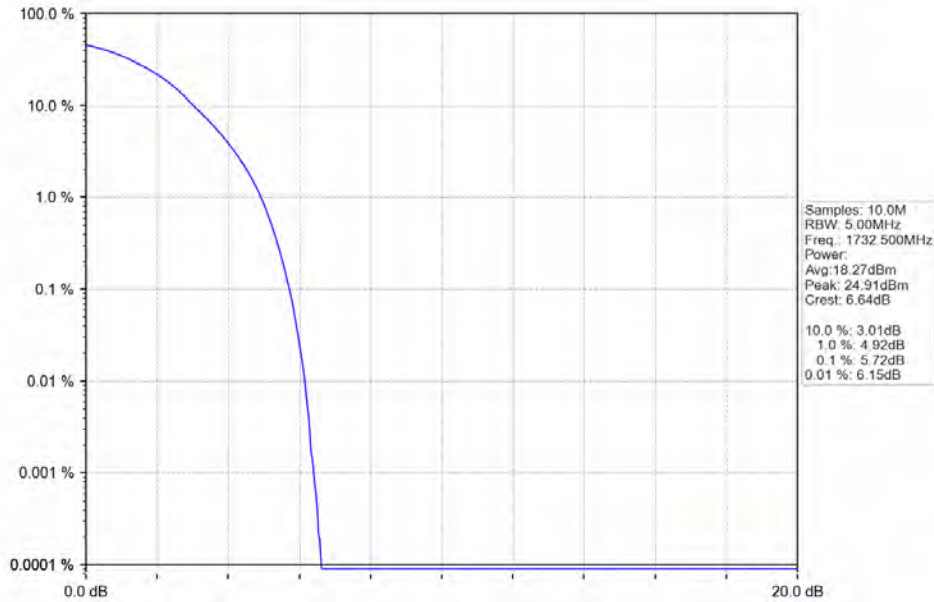




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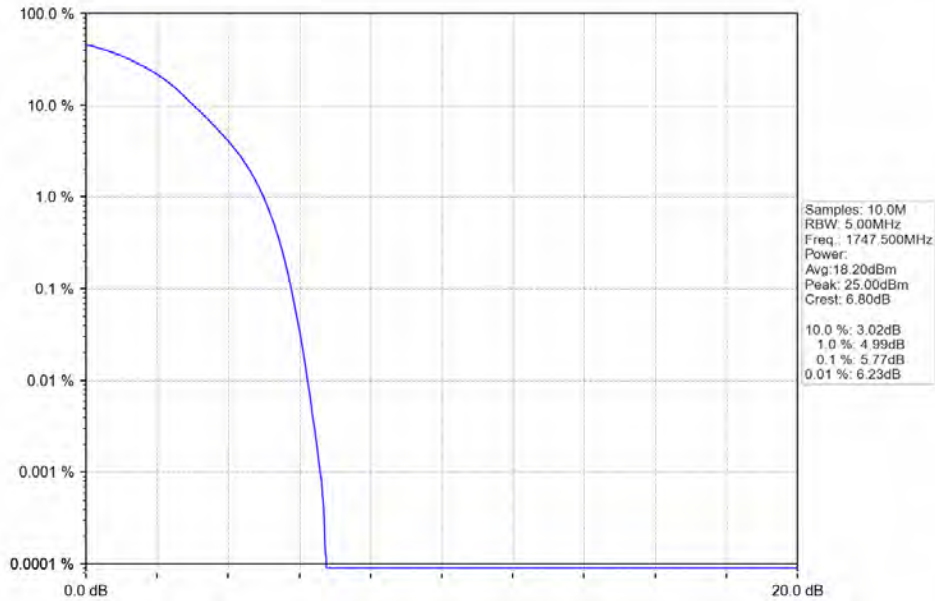


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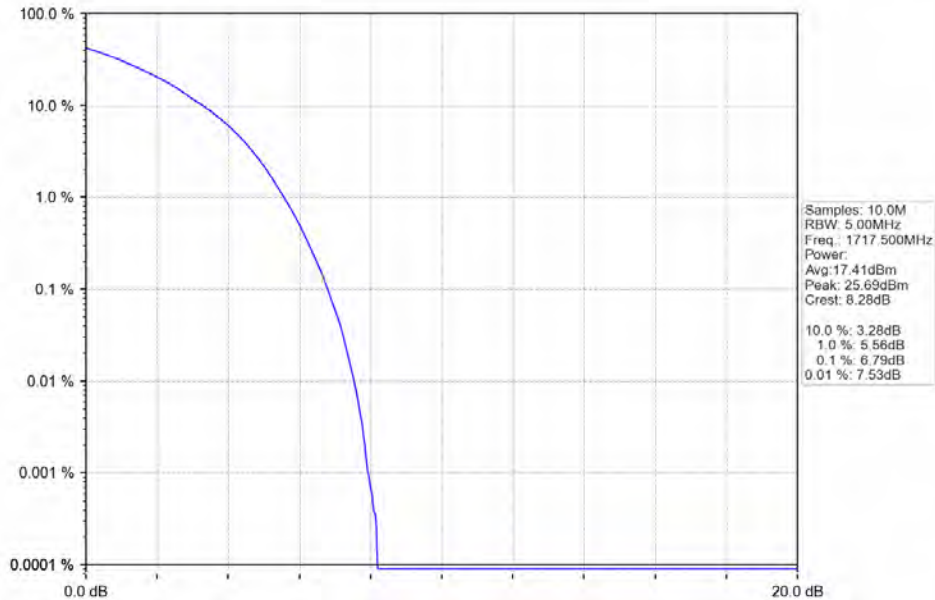




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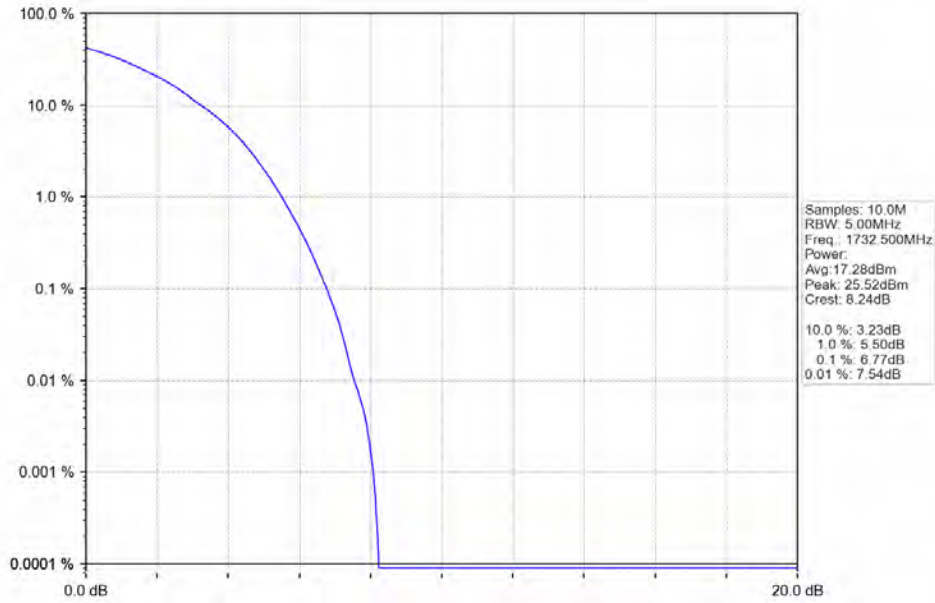


Band 4 15MHz 16QAM LCH 1717.5MHz RB 75 0 NTN

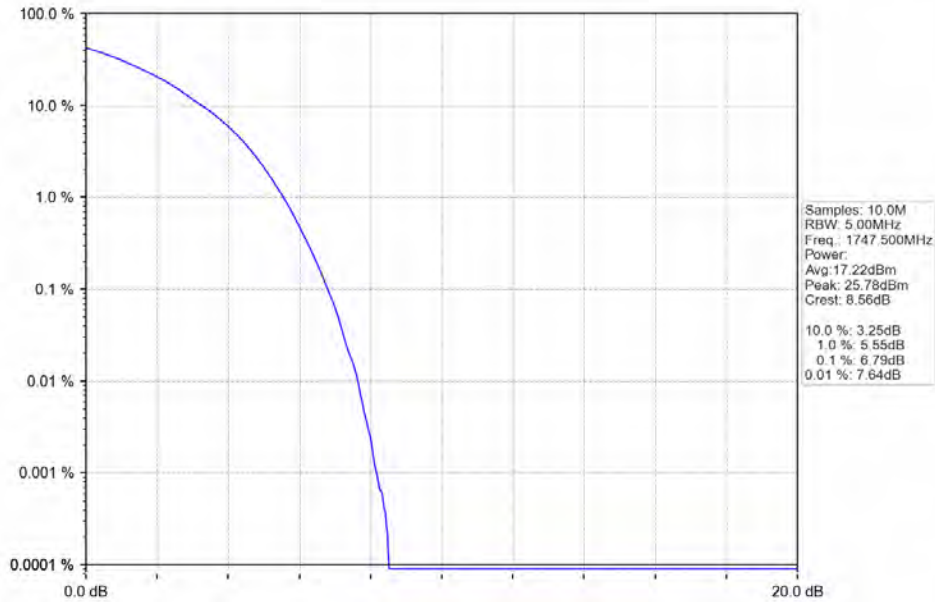




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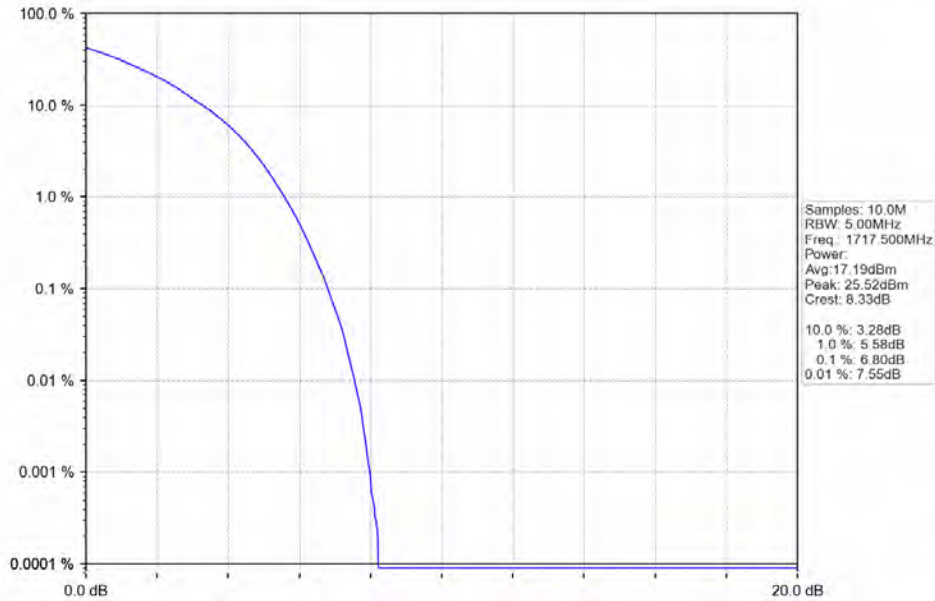


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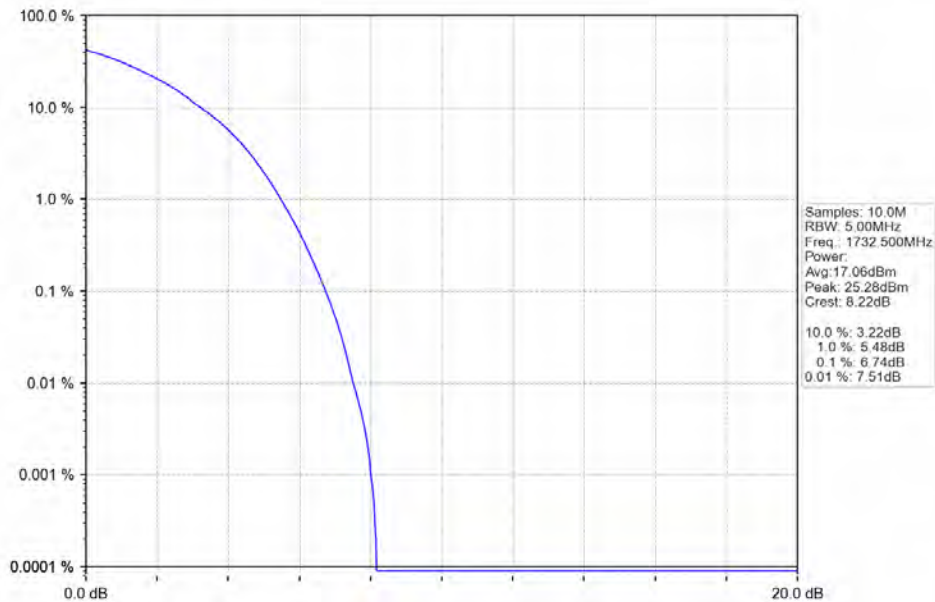




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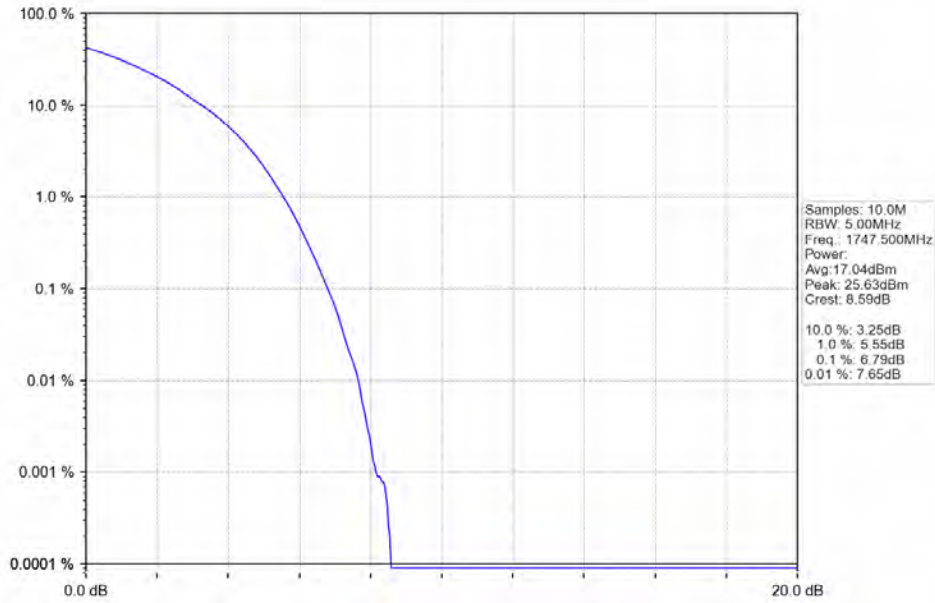


Band 4 15MHz 64QAM MCH 1732.5MHz RB 75 0 NTV



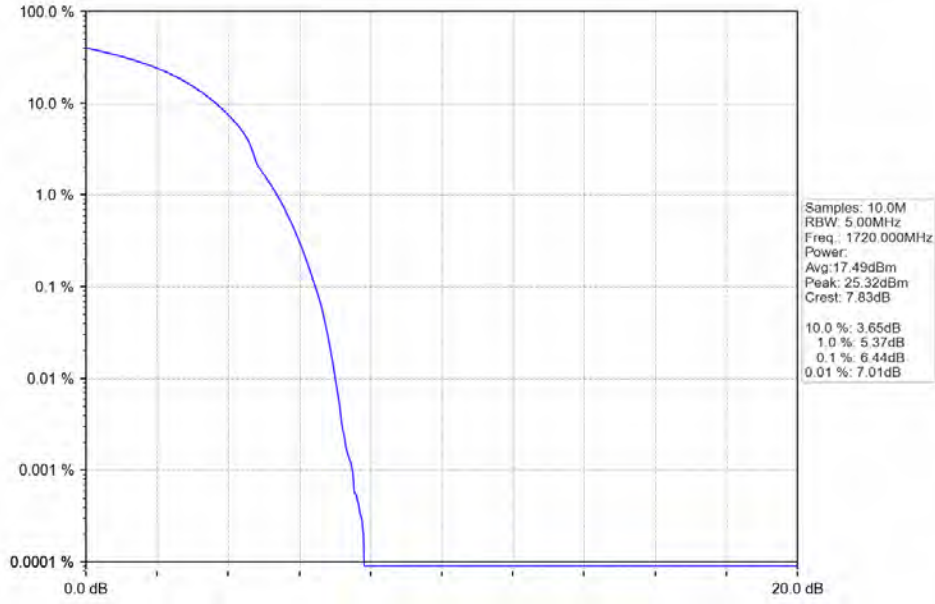


Band 4 15MHz 64QAM HCH 1747.5MHz RB 75 0 NTV

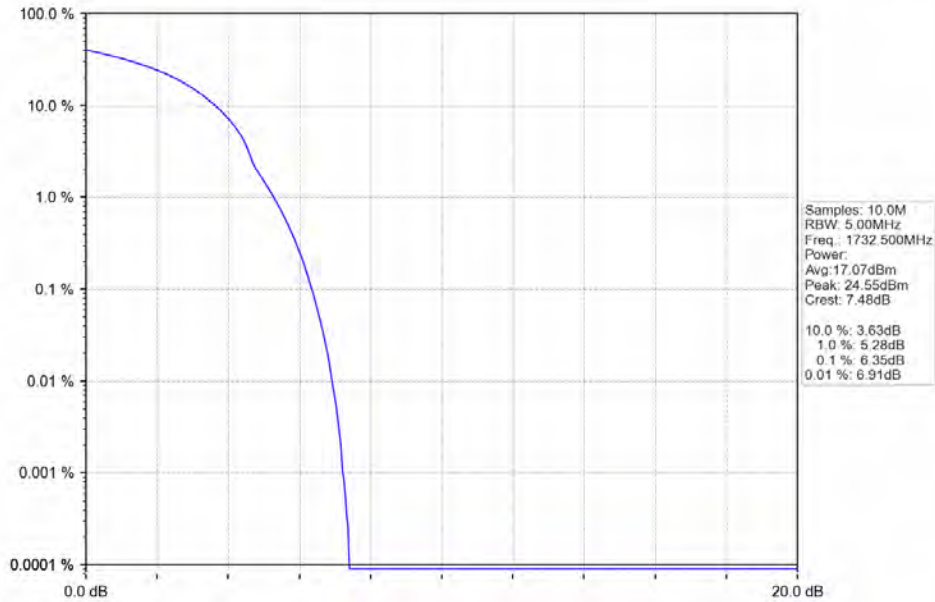




Band 4 20MHz QPSK LCH 1720MHz RB 100 0 NTNV

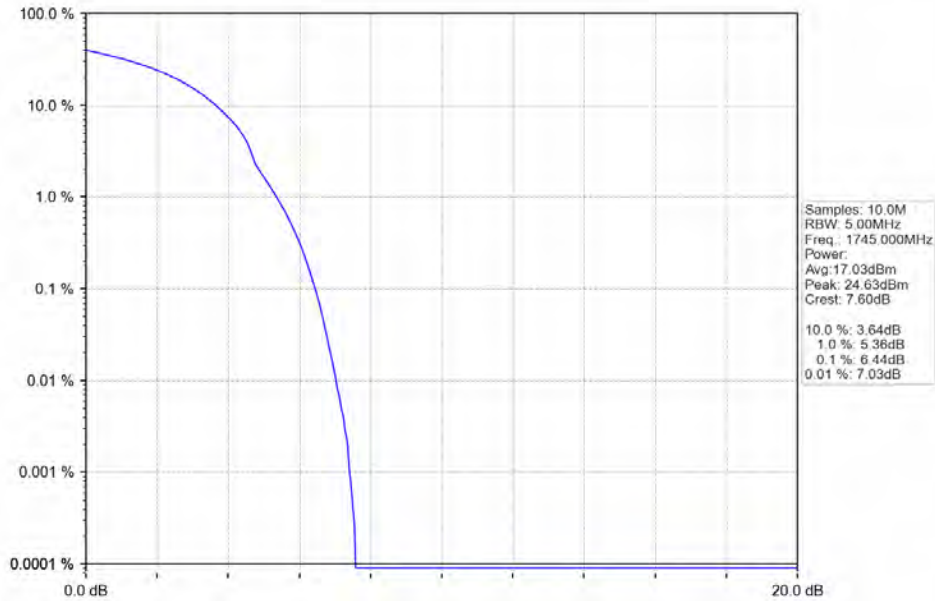


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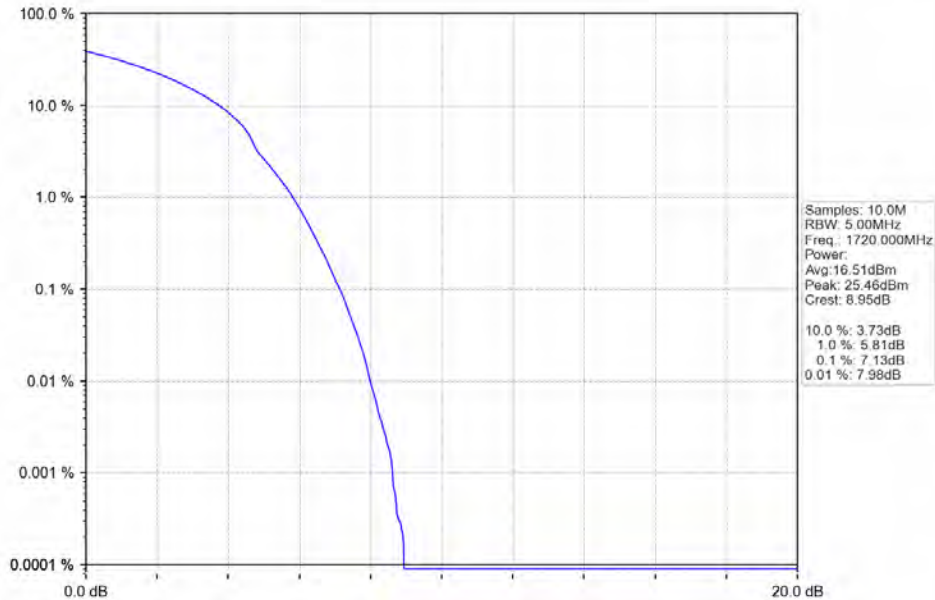




Band 4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV

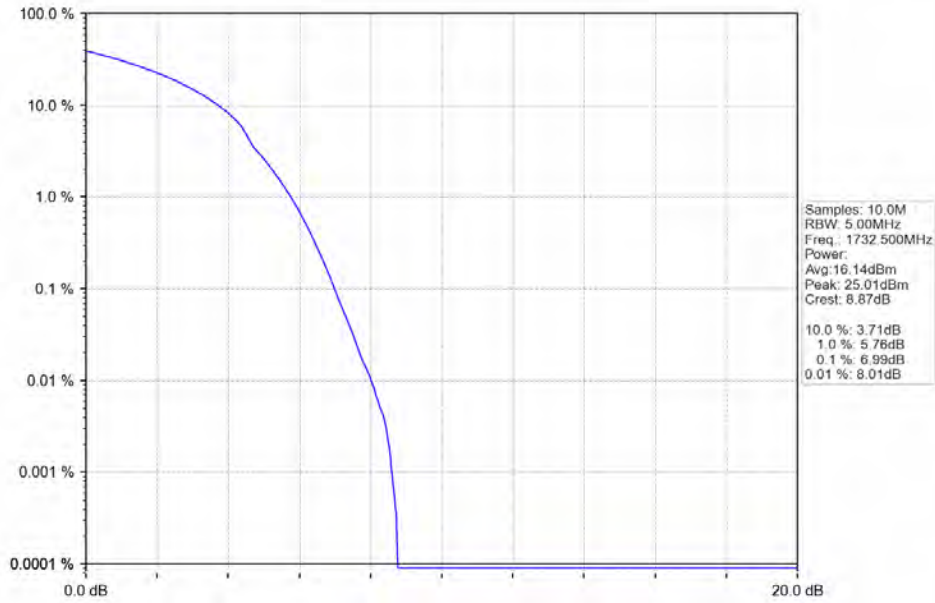


Band 4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV

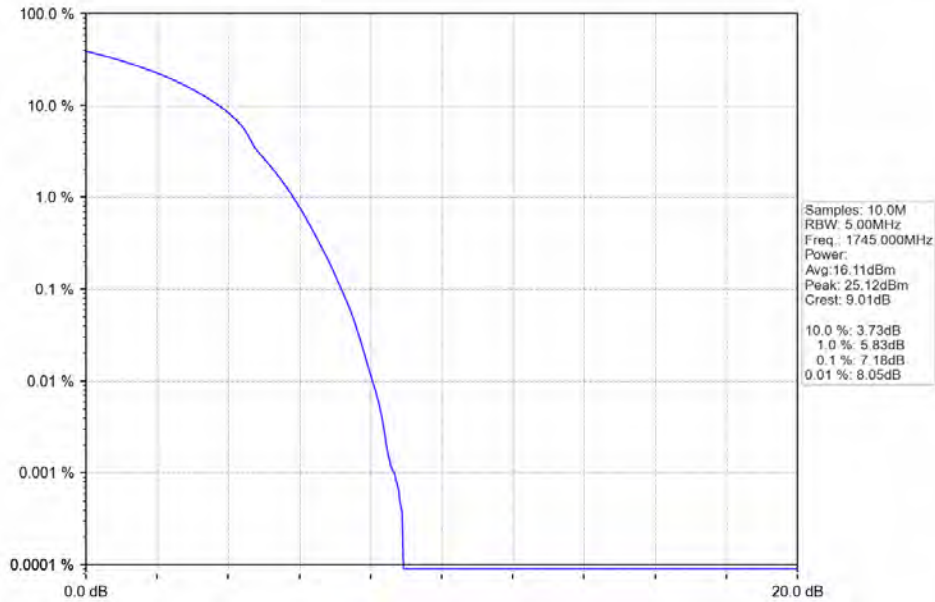




Band 4 20MHz 16QAM MCH 1732.5MHz RB 100 0 NTNV



Band 4 20MHz 16QAM HCH 1745MHz RB 100 0 NTNV



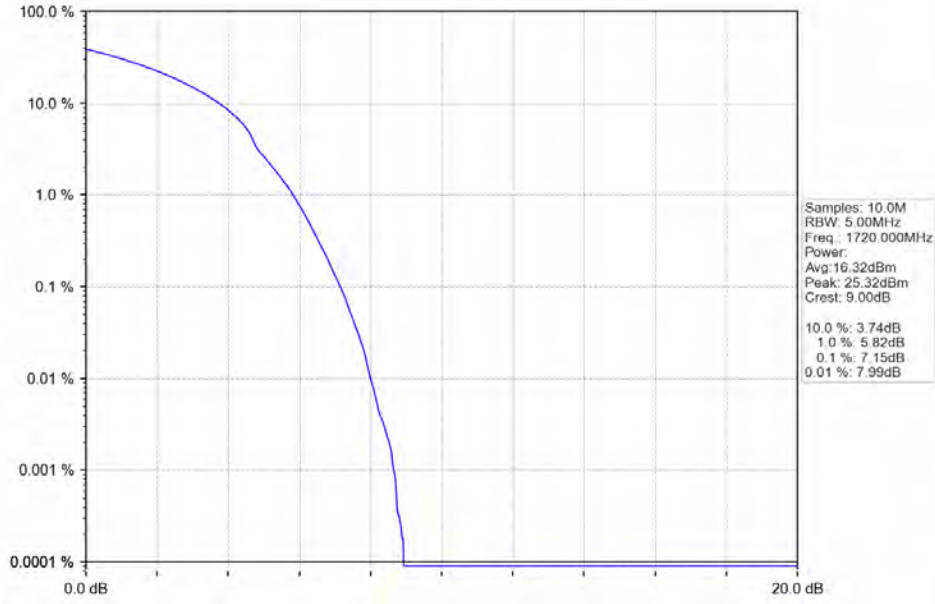




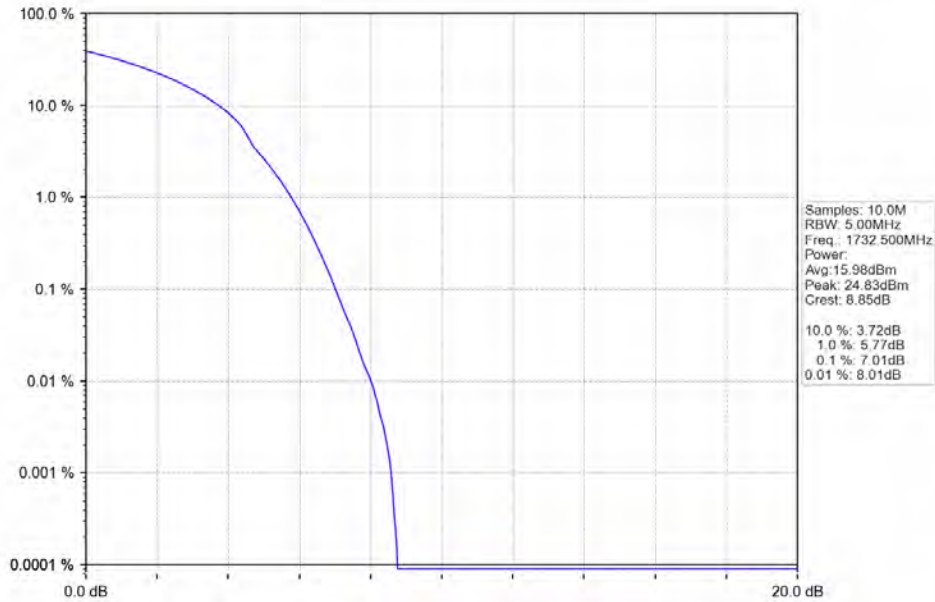
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Band 4 20MHz 64QAM LCH 1720MHz RB 100\_0 NTN



Band 4 20MHz 64QAM MCH 1732.5MHz RB 100\_0 NTN



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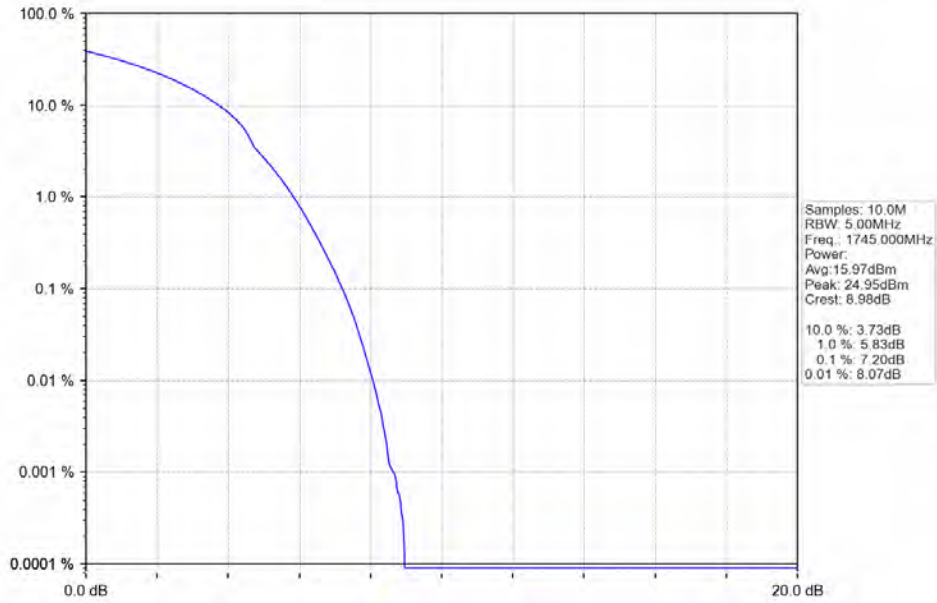
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Band 4 20MHz 64QAM HCH 1745MHz RB 100 0 NTV





3.2 B7\_5MHz

3.2.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	25	0	5.35	<=13	Pass
	2535	25	0	5.36	<=13	Pass
	2567.5	25	0	5.34	<=13	Pass
16QAM	2502.5	25	0	6.06	<=13	Pass
	2535	25	0	6.09	<=13	Pass
	2567.5	25	0	6.09	<=13	Pass
64QAM	2502.5	25	0	6.08	<=13	Pass
	2535	25	0	6.07	<=13	Pass
	2567.5	25	0	6.09	<=13	Pass
Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	50	0	4.60	<=13	Pass
	2535	50	0	4.61	<=13	Pass
	2565	50	0	4.57	<=13	Pass
16QAM	2505	50	0	6.08	<=13	Pass
	2535	50	0	6.02	<=13	Pass
	2565	50	0	6.09	<=13	Pass
64QAM	2505	50	0	6.07	<=13	Pass
	2535	50	0	6.02	<=13	Pass
	2565	50	0	6.10	<=13	Pass
Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	75	0	5.75	<=13	Pass
	2535	75	0	5.76	<=13	Pass
	2562.5	75	0	5.80	<=13	Pass
16QAM	2507.5	75	0	6.72	<=13	Pass
	2535	75	0	6.79	<=13	Pass
	2562.5	75	0	6.91	<=13	Pass
64QAM	2507.5	75	0	6.72	<=13	Pass
	2535	75	0	6.83	<=13	Pass
	2562.5	75	0	6.90	<=13	Pass
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	6.38	<=13	Pass
	2535	100	0	6.42	<=13	Pass
	2560	100	0	6.44	<=13	Pass
16QAM	2510	100	0	7.10	<=13	Pass
	2535	100	0	7.19	<=13	Pass
	2560	100	0	7.15	<=13	Pass
64QAM	2510	100	0	7.10	<=13	Pass
	2535	100	0	7.19	<=13	Pass
	2560	100	0	7.16	<=13	Pass

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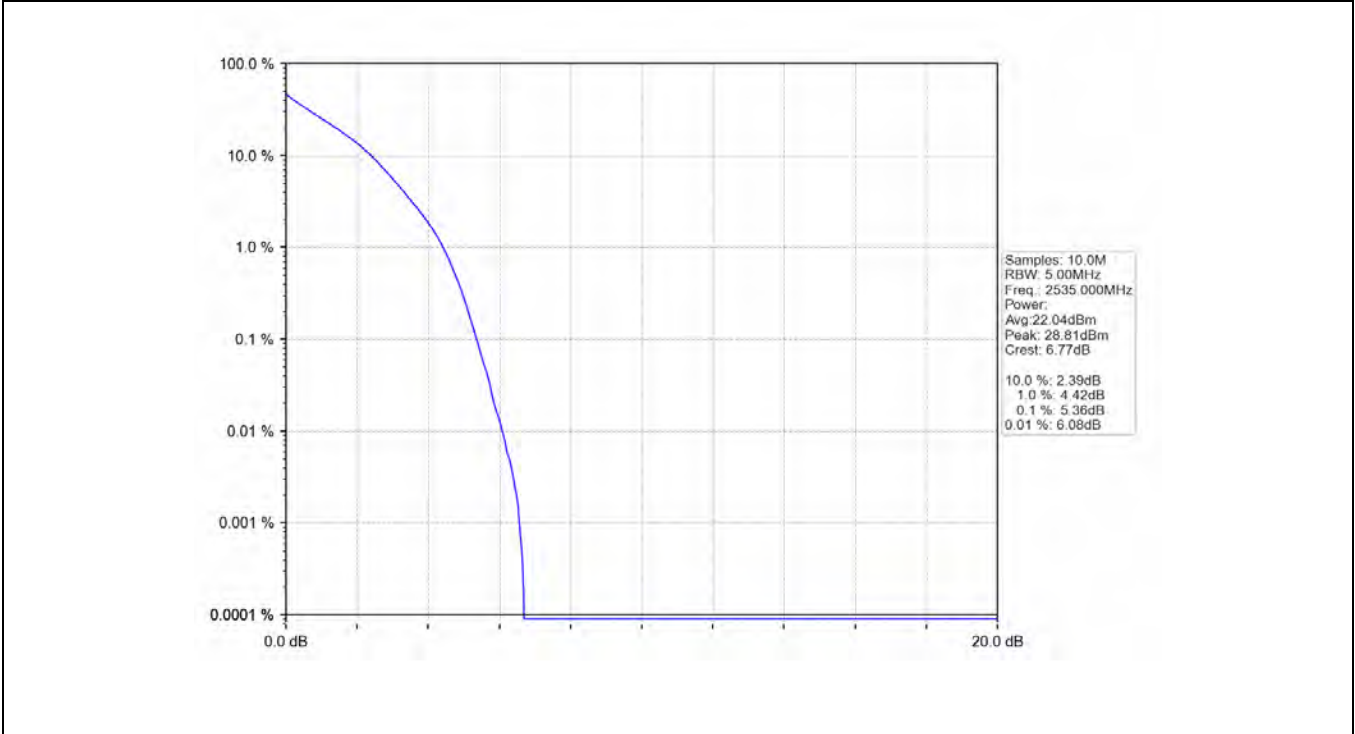
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### 3.2.2 Test Graph





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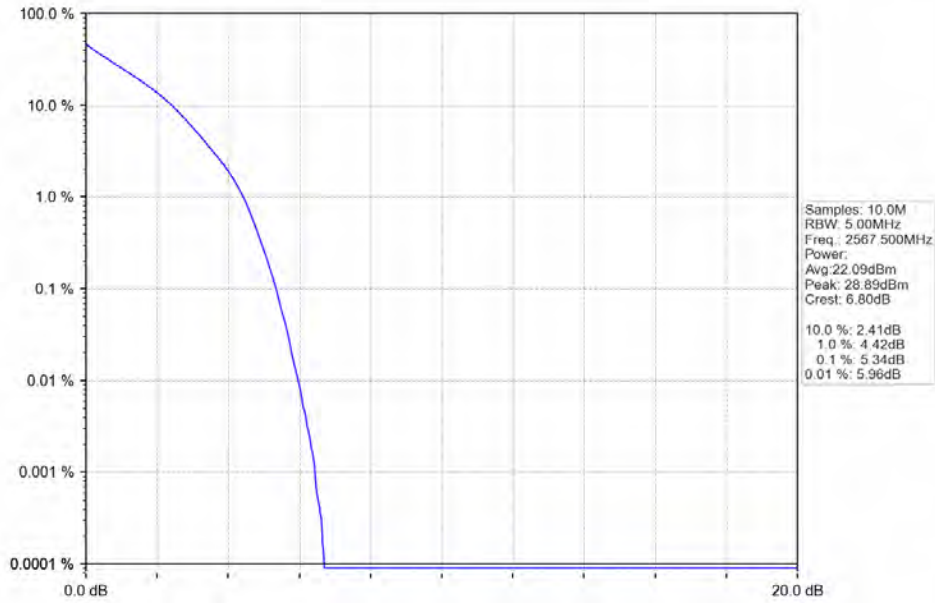
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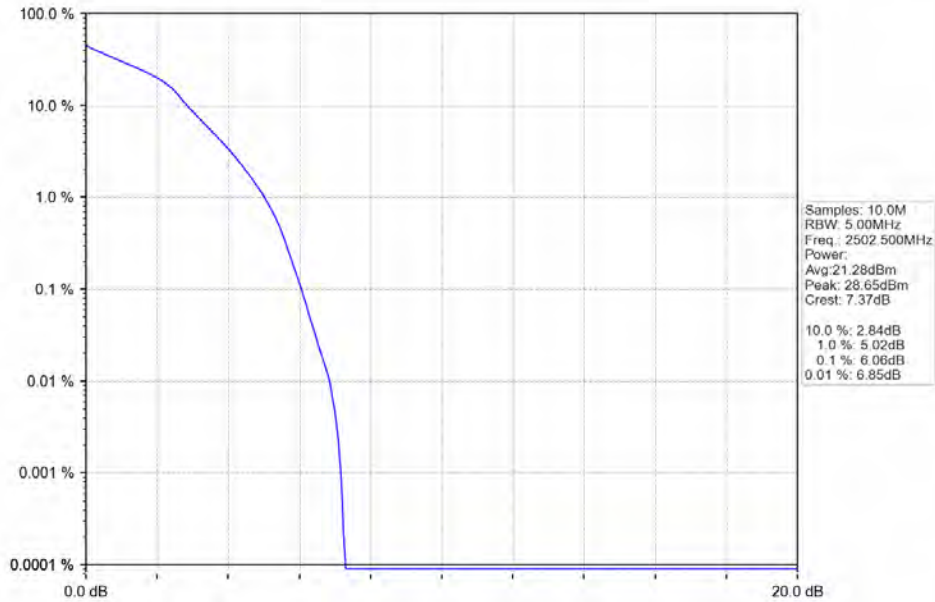
**BUREAU**  
**VERITAS**

**Test Report No.: W7L-P20210616-3RF03**

Band7\_5MHz\_QPSK\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



Band7\_5MHz\_16QAM\_LCH\_2502.5MHz\_RB\_25\_0\_NTNV



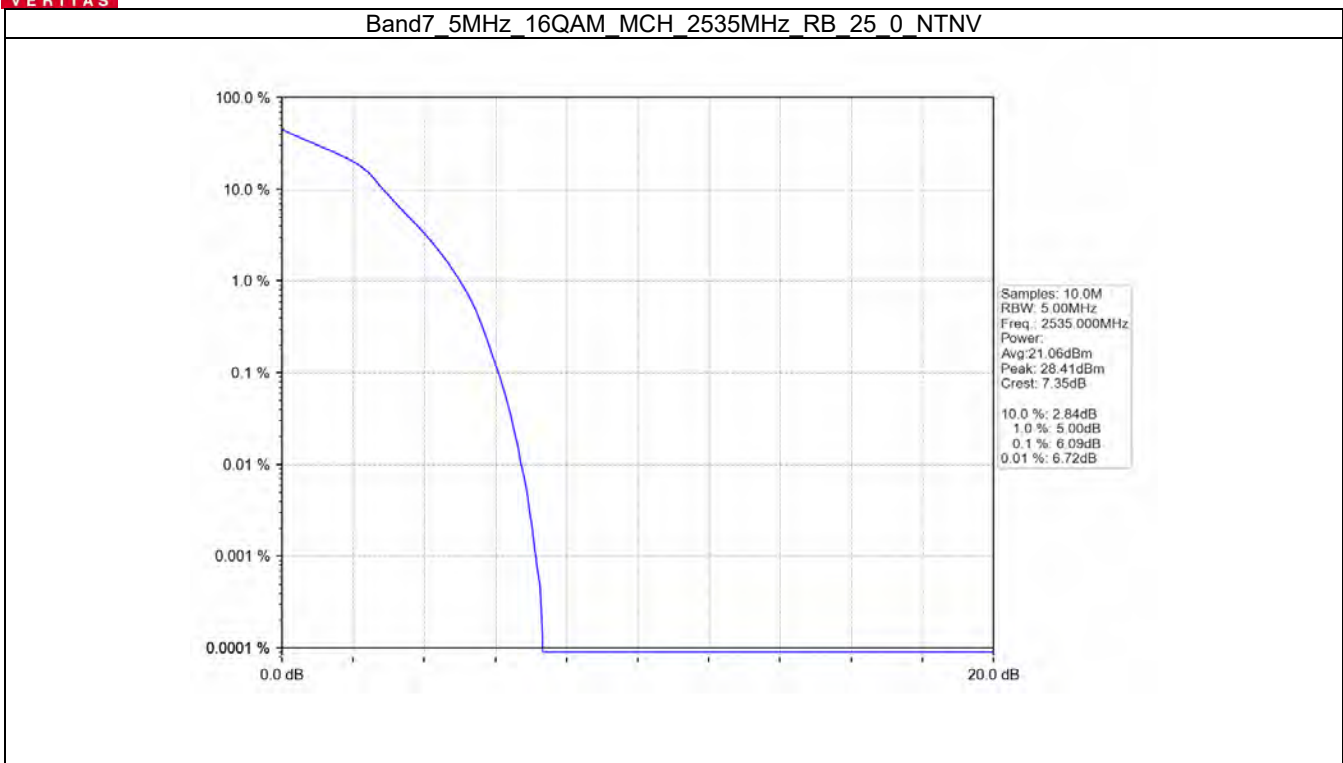
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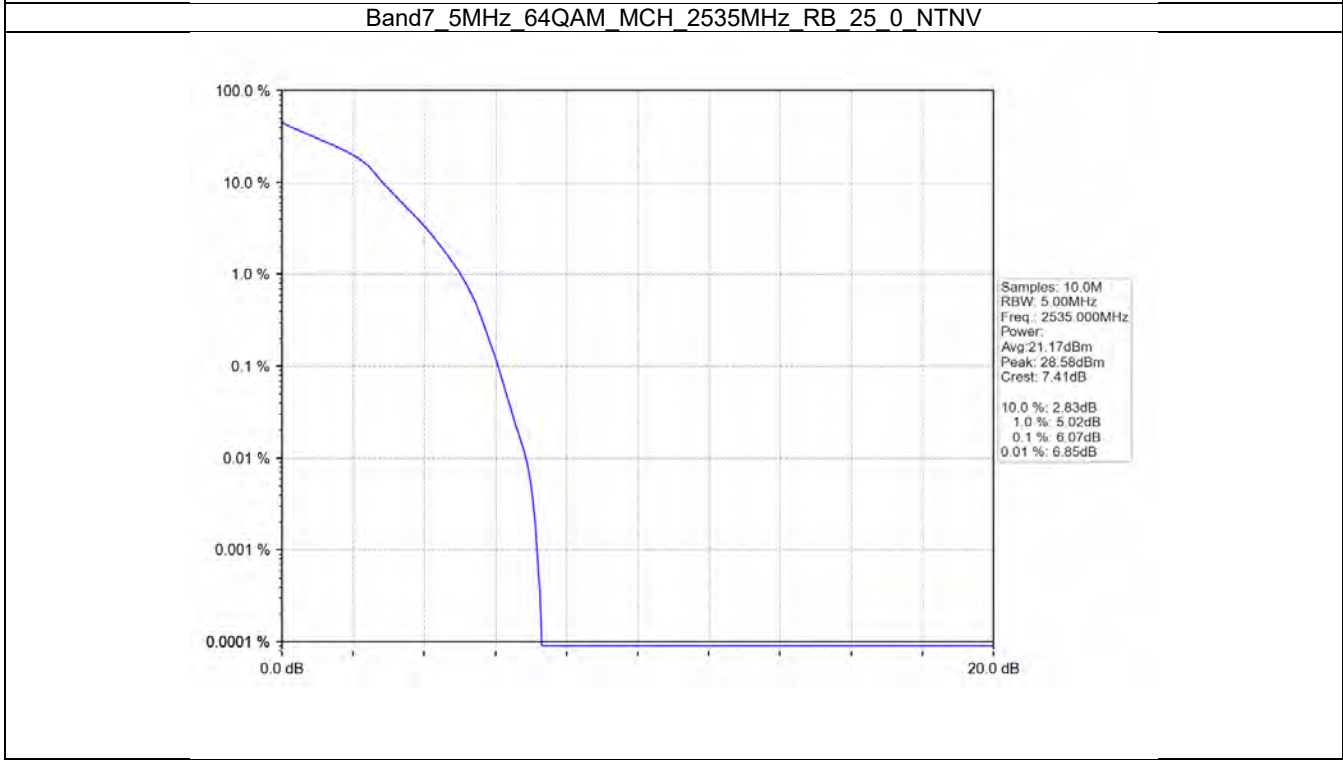
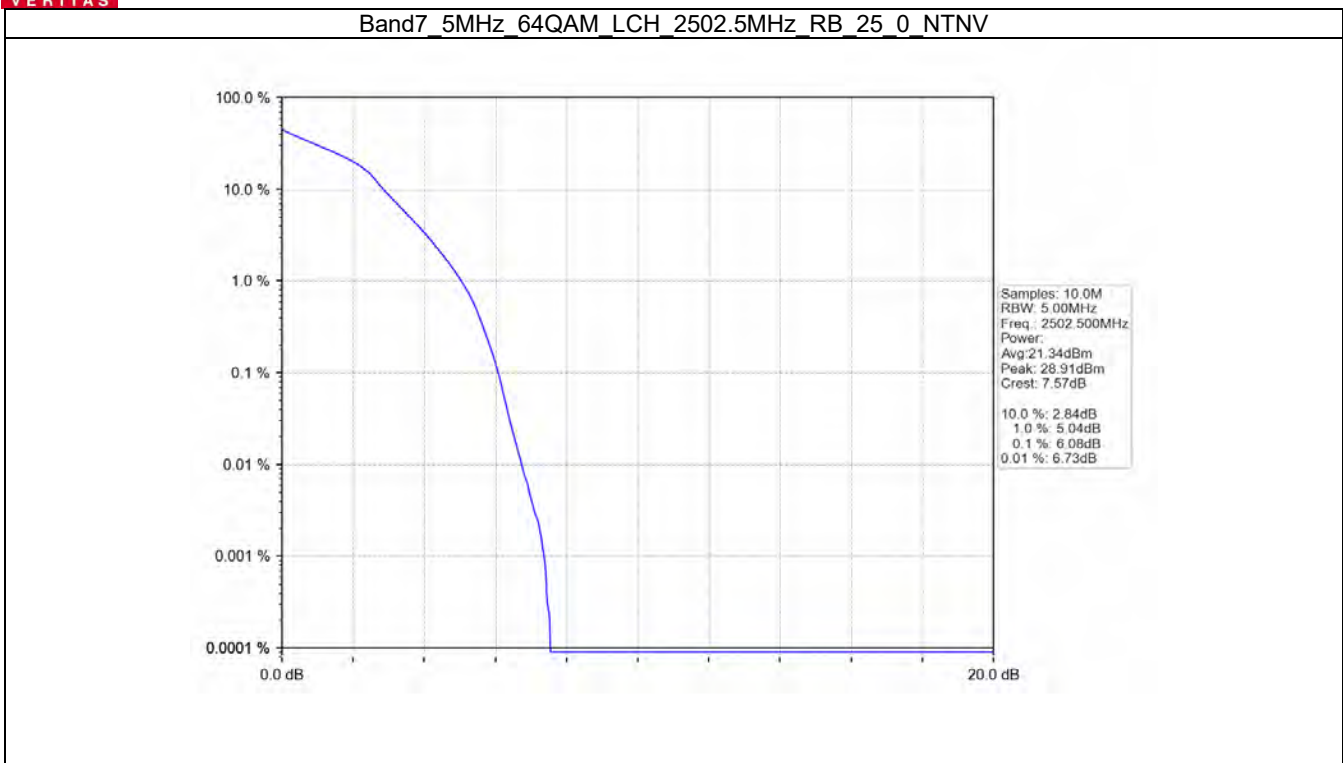
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



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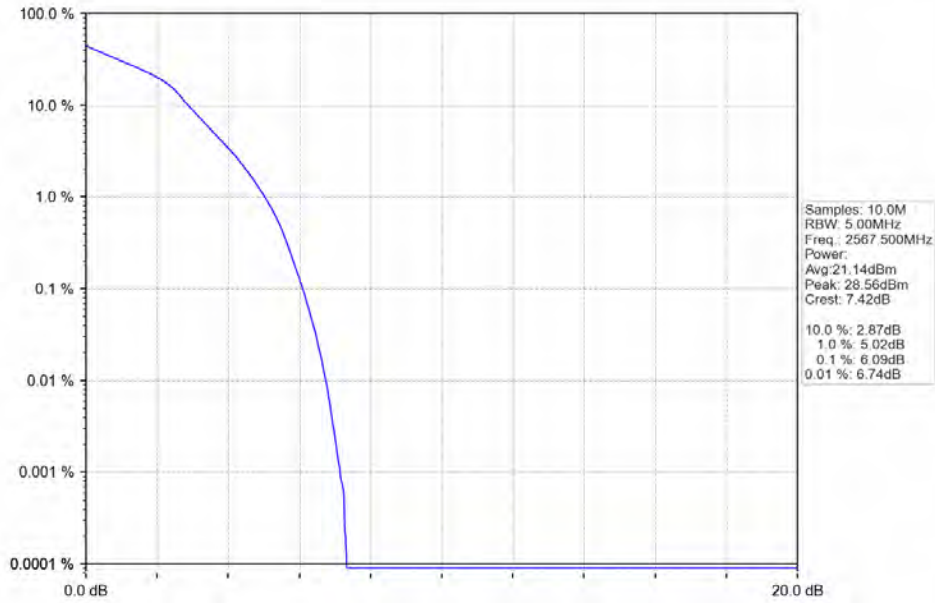




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**Test Report No.: W7L-P20210616-3RF03**

Band7\_5MHz\_64QAM\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



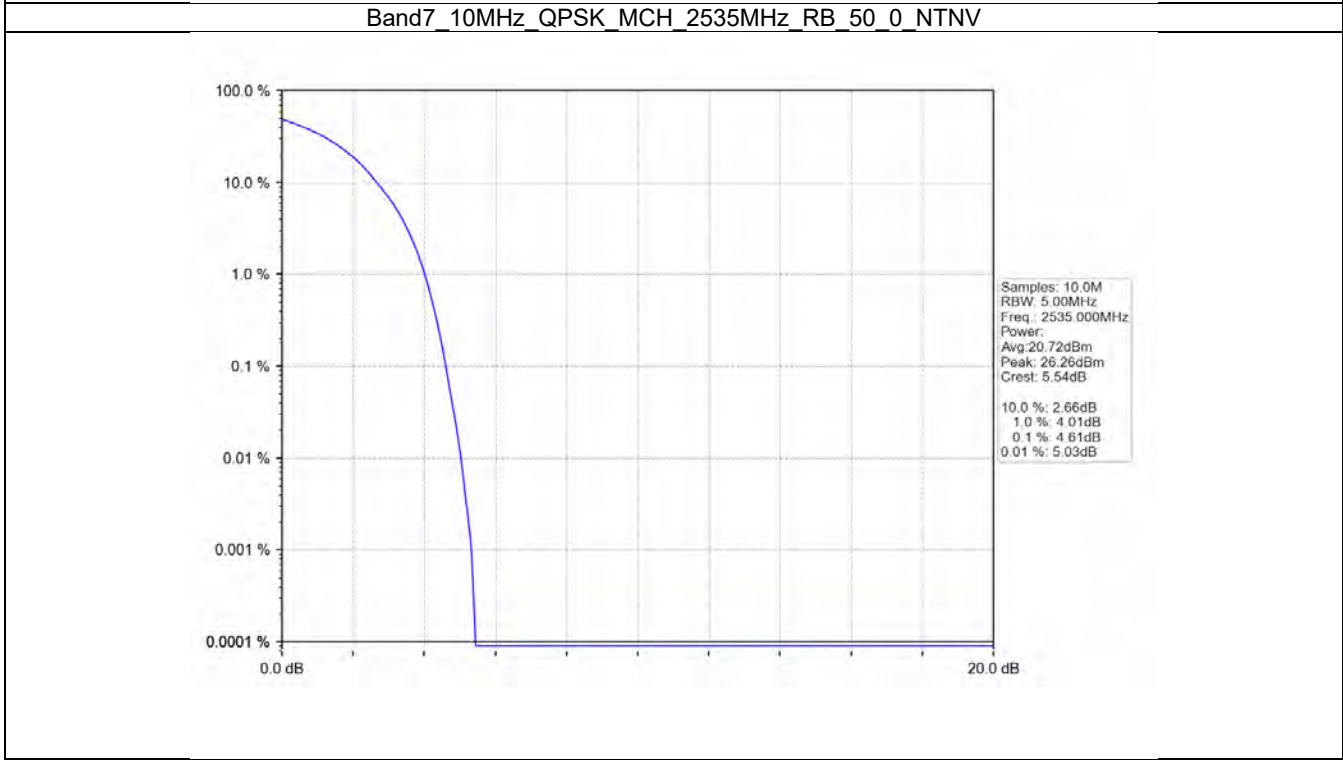
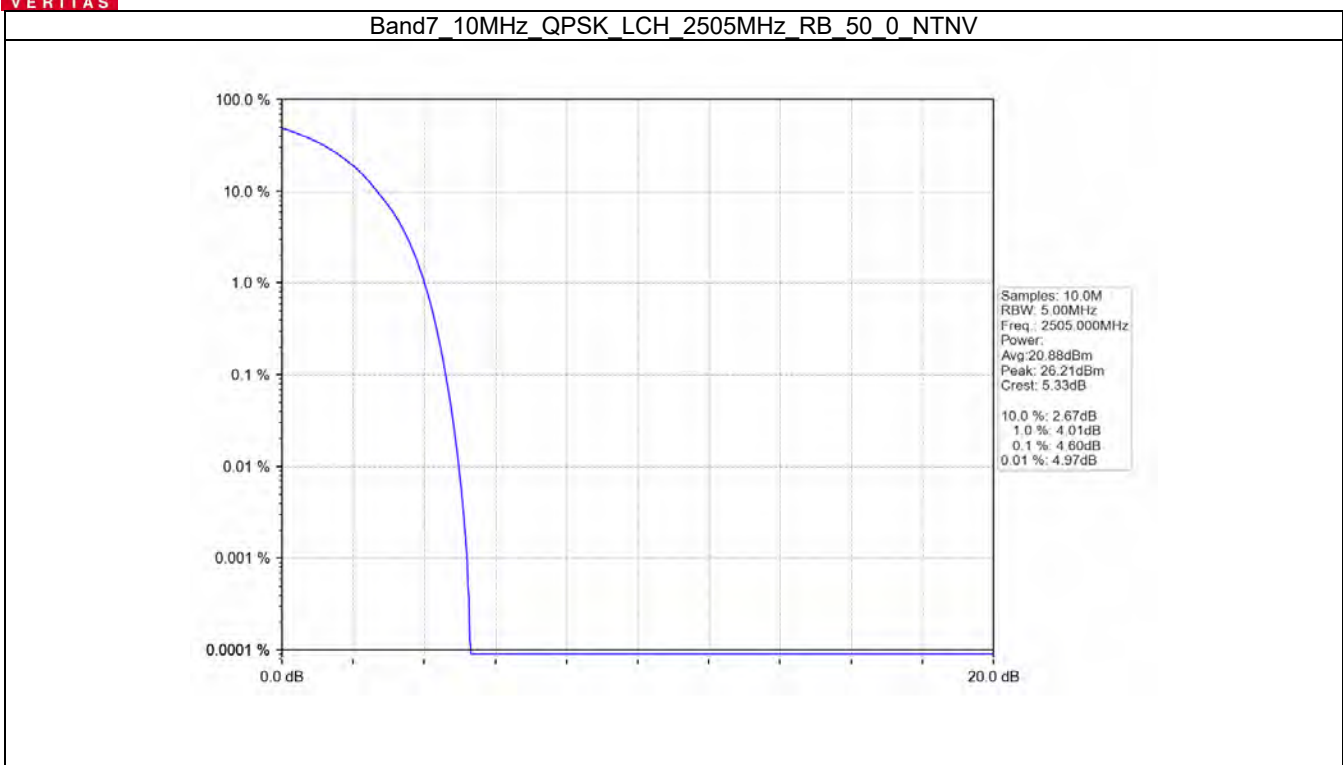
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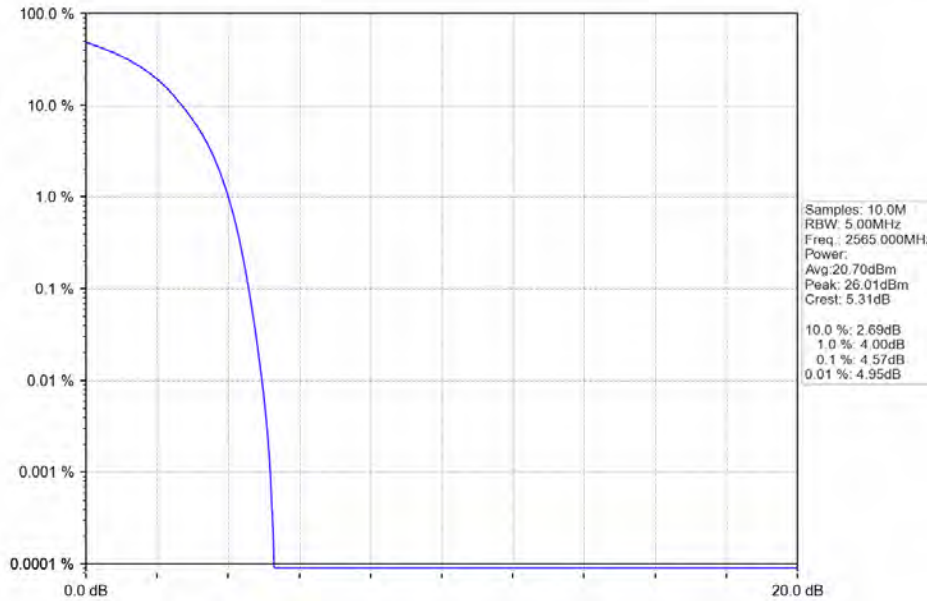
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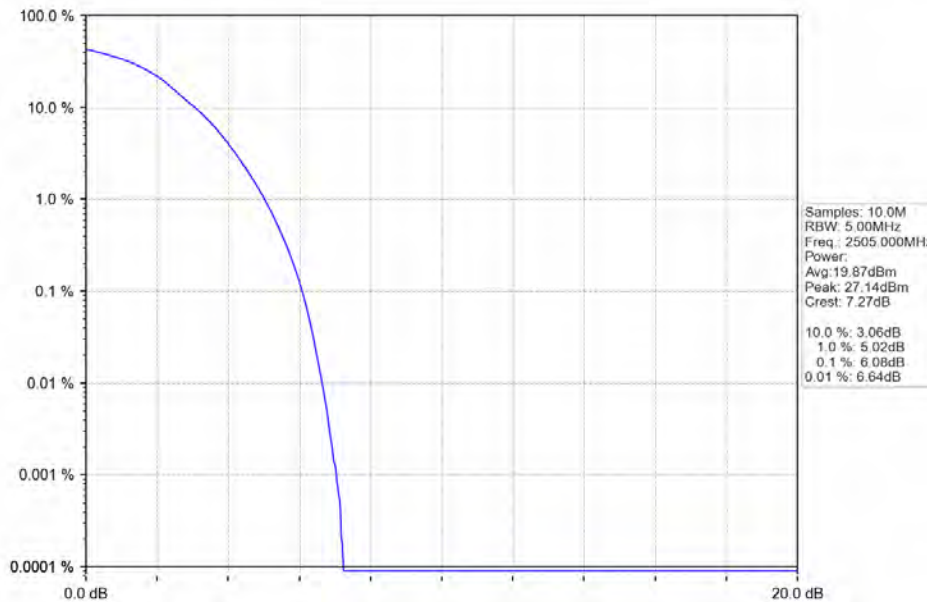
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Band7\_10MHz\_QPSK\_HCH\_2565MHz\_RB\_50\_0\_NTNV



Band7\_10MHz\_16QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV

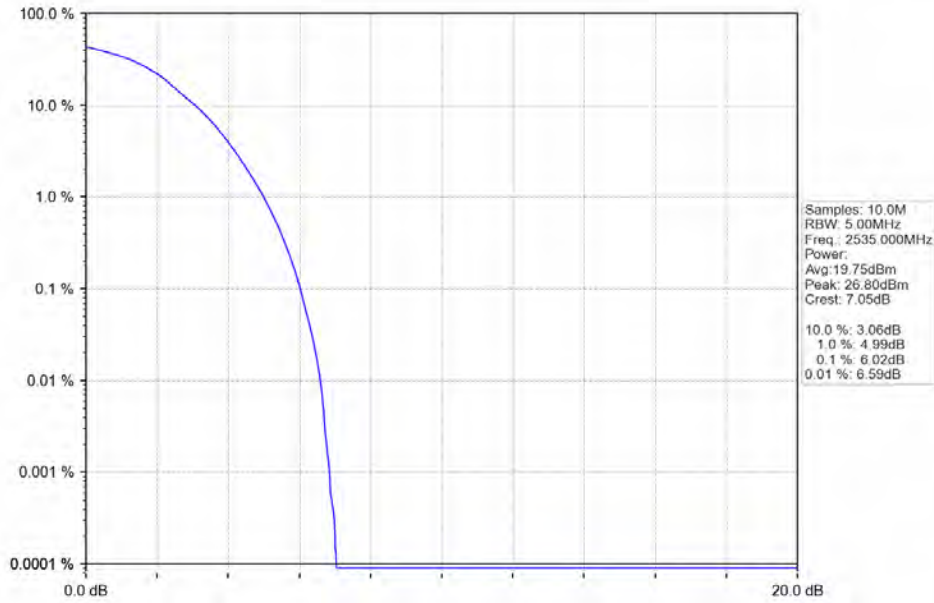




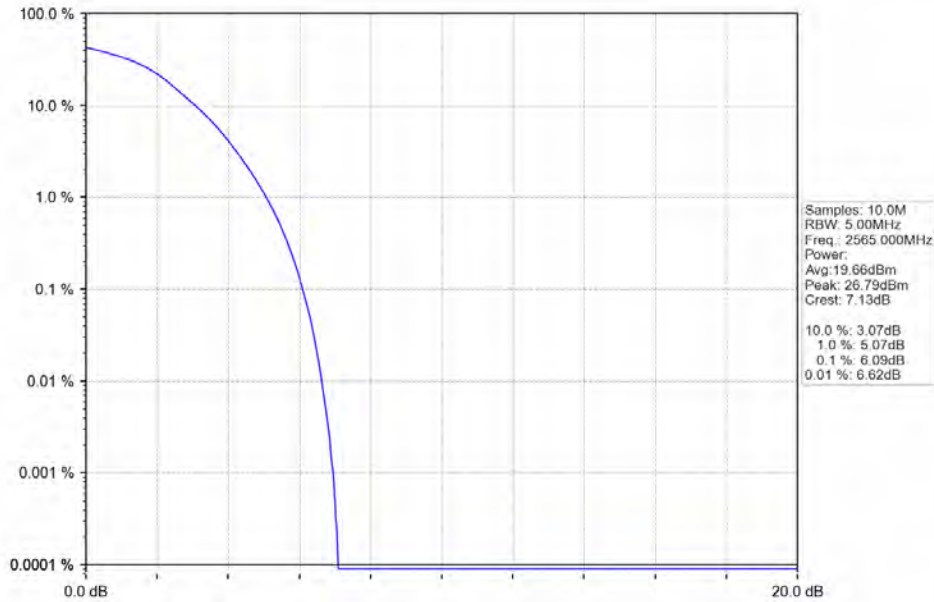
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**Test Report No.: W7L-P20210616-3RF03**

Band7 10MHz 16QAM MCH 2535MHz RB 50 0 NTNV



Band7 10MHz 16QAM HCH 2565MHz RB 50 0 NTNV



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District, Shenzhen, Guangdong, China

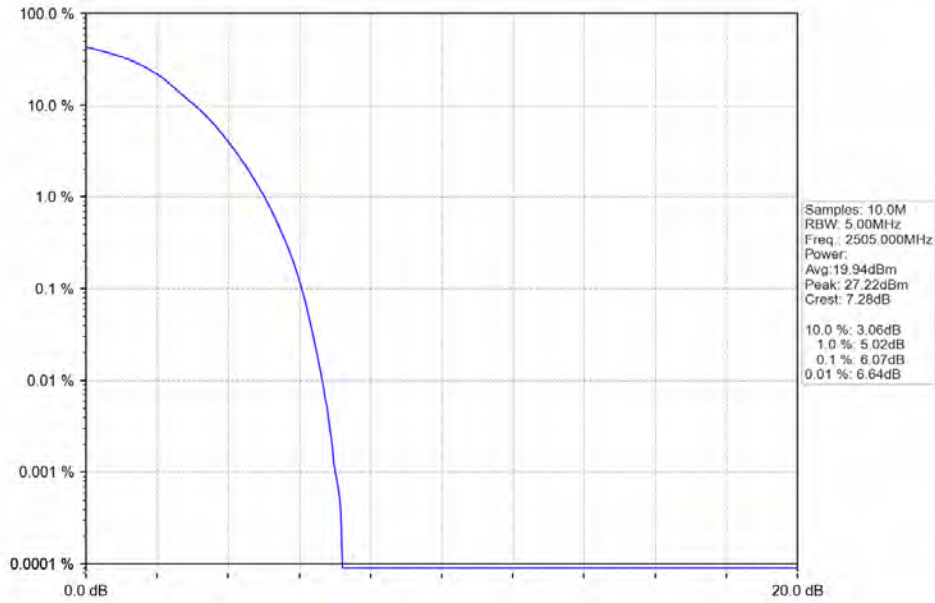
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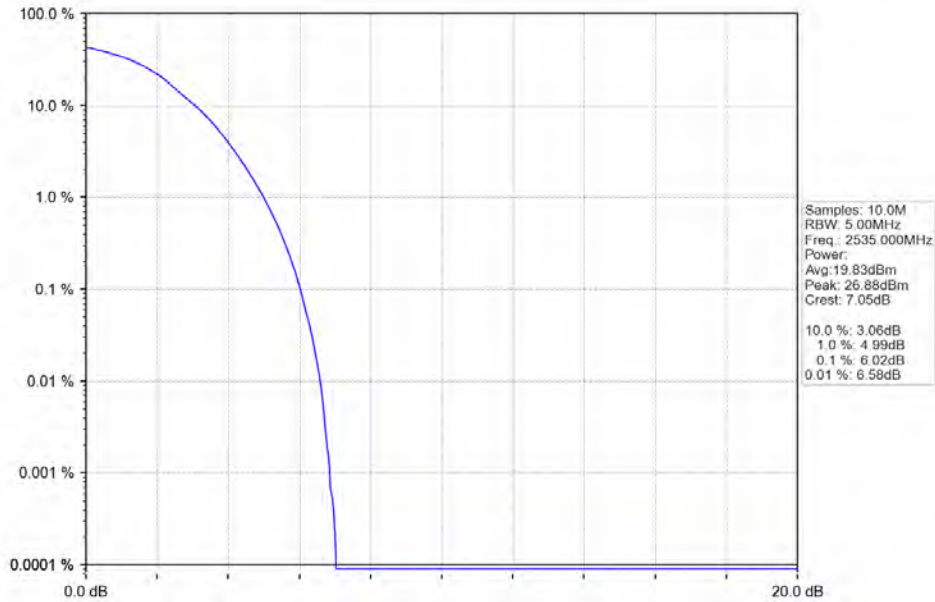
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



Band7\_10MHz\_64QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV



Band7\_10MHz\_64QAM\_MCH\_2535MHz\_RB\_50\_0\_NTNV

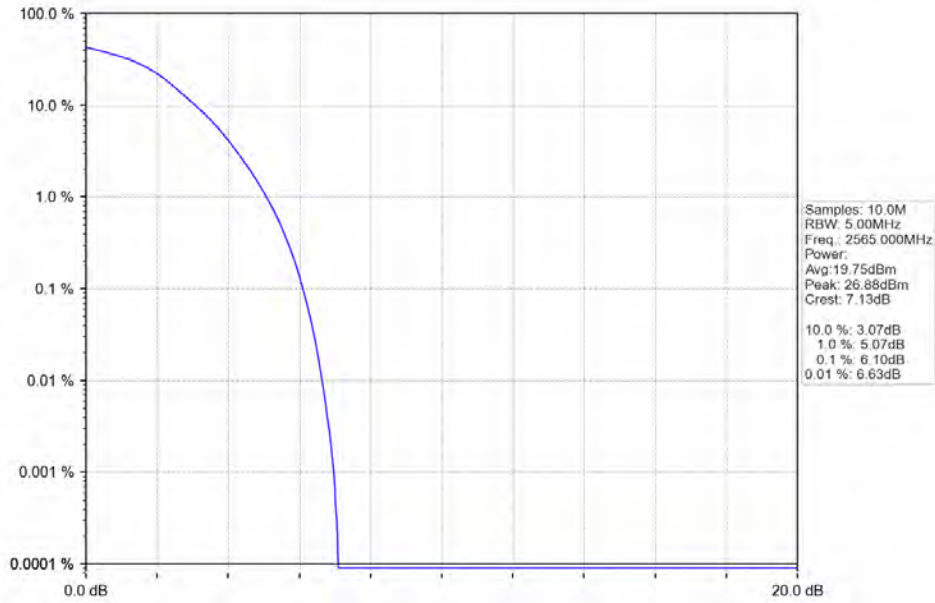




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**VERITAS**

**Test Report No.: W7L-P20210616-3RF03**

Band7\_10MHz\_64QAM\_HCH\_2565MHz\_RB\_50\_0\_NTNV



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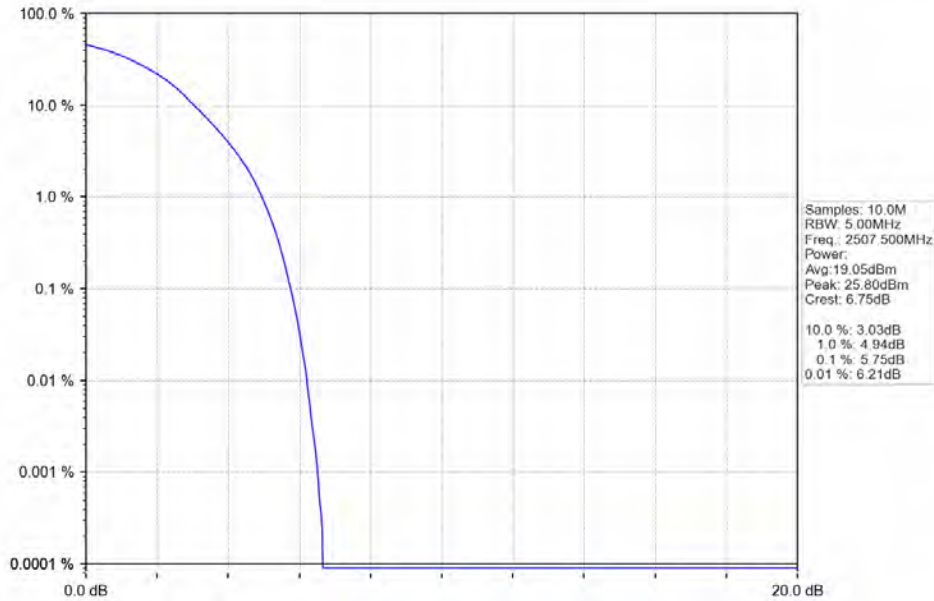
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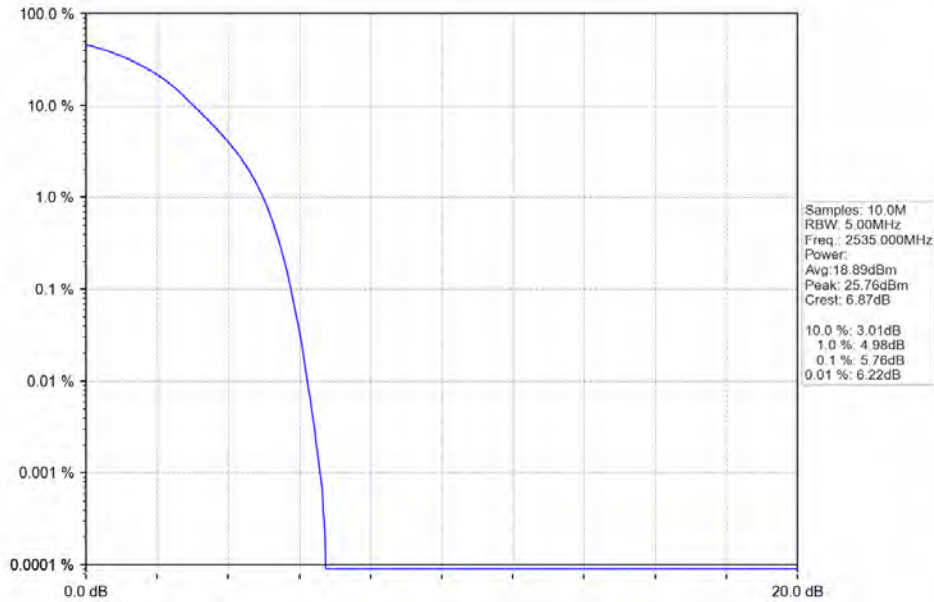
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



Band7 15MHz QPSK LCH 2507.5MHz RB 75 0 NTNV

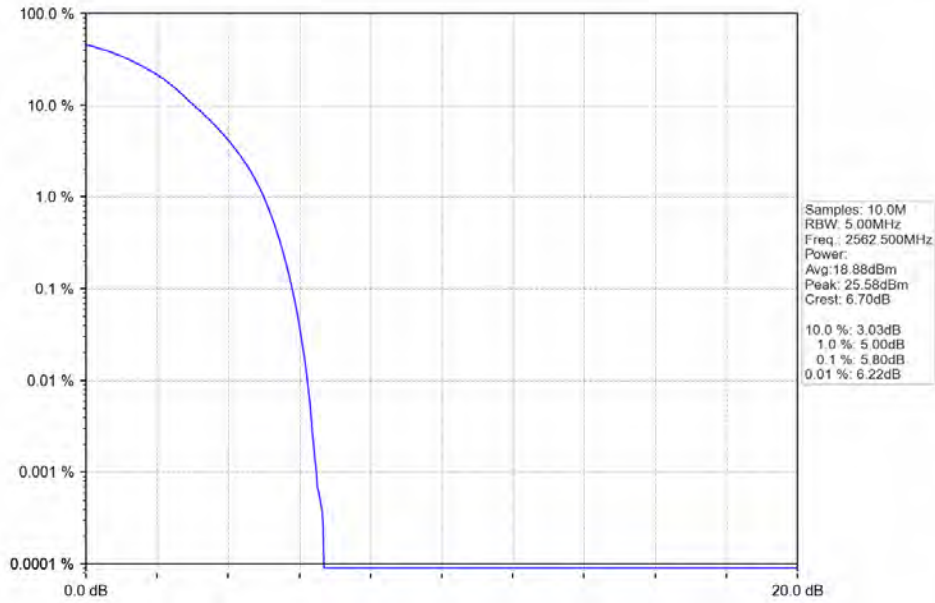


Band7 15MHz QPSK MCH 2535MHz RB 75 0 NTNV

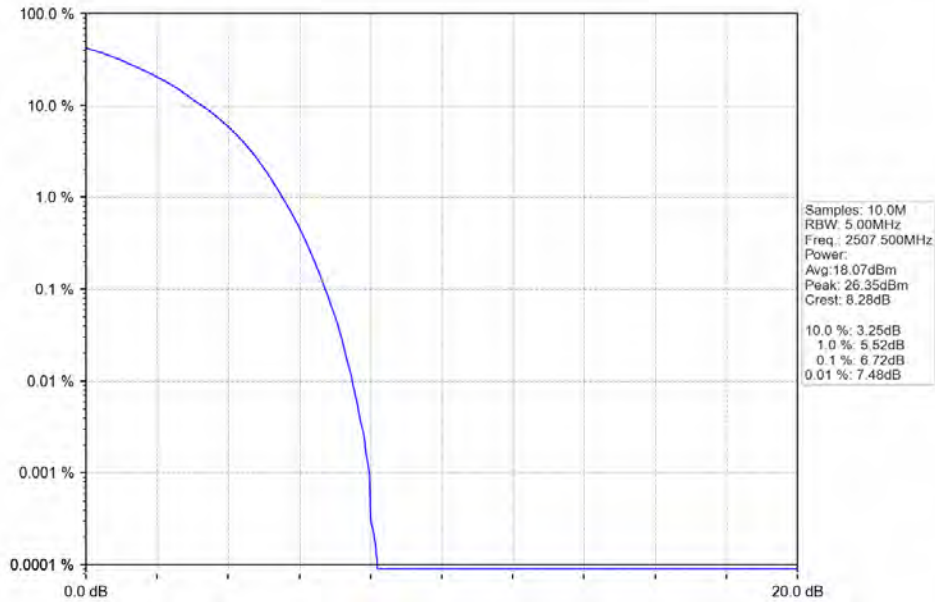




Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTVN



Band7 15MHz 16QAM LCH 2507.5MHz RB 75 0 NTVN



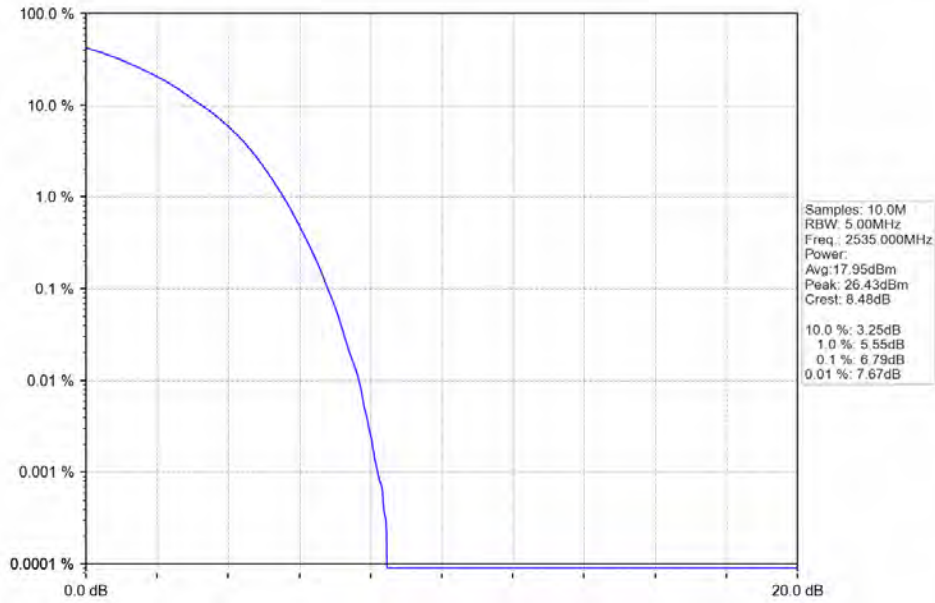




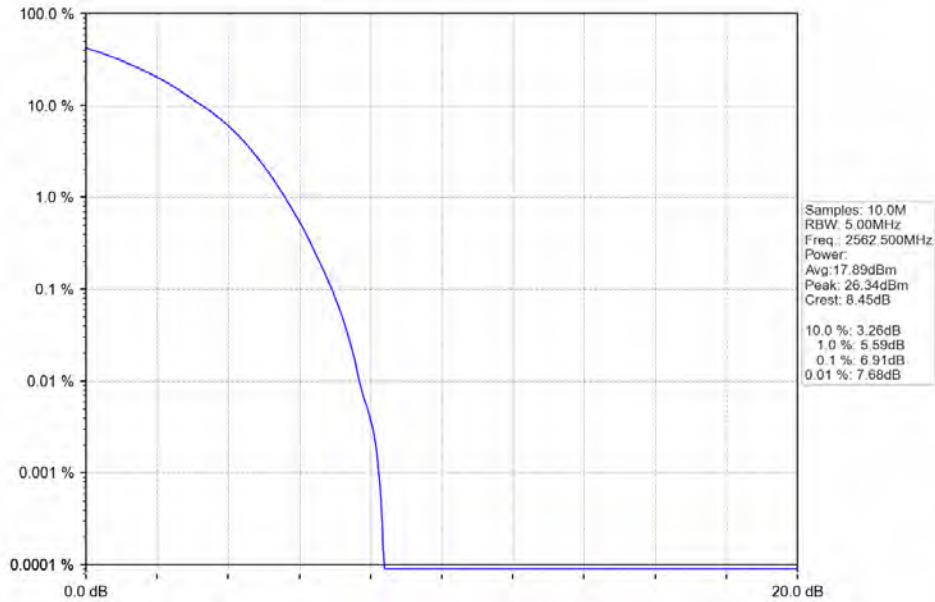
**BUREAU**  
**VERITAS**

**Test Report No.: W7L-P20210616-3RF03**

Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTNV



Band7 15MHz 16QAM HCH 2562.5MHz RB 75 0 NTNV



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