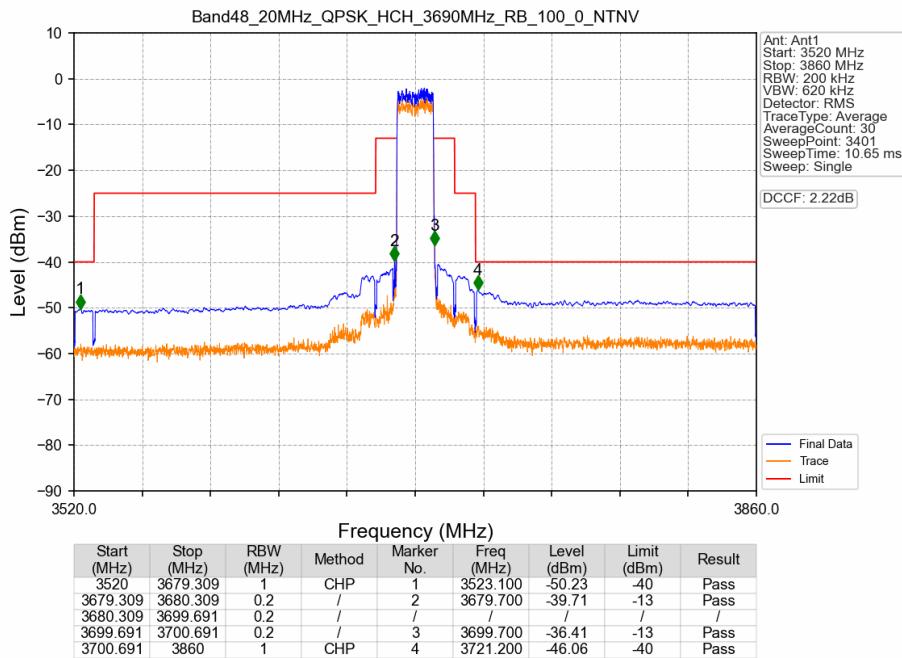
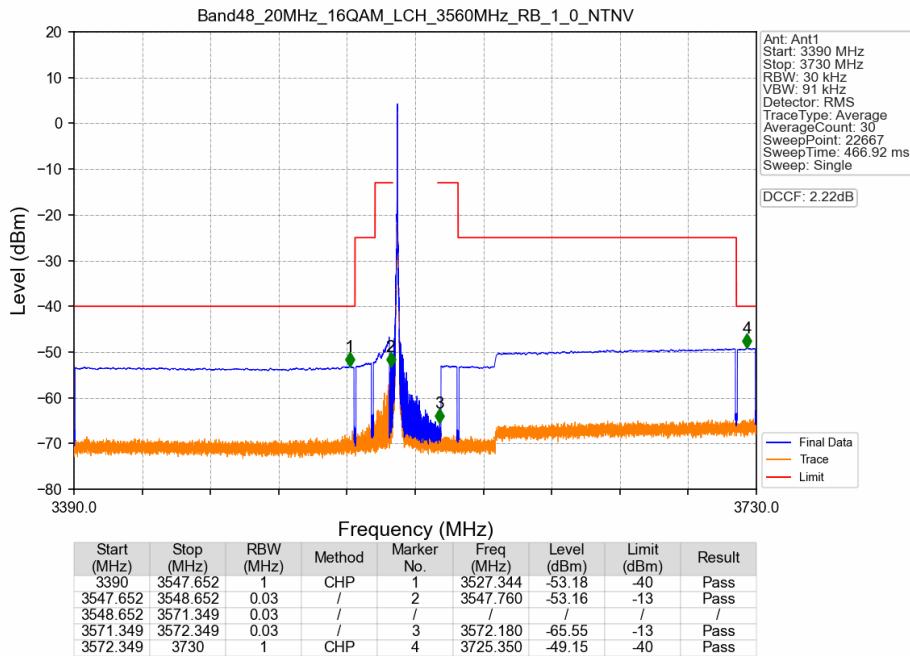


## Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



## Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_1\_0\_NTNV



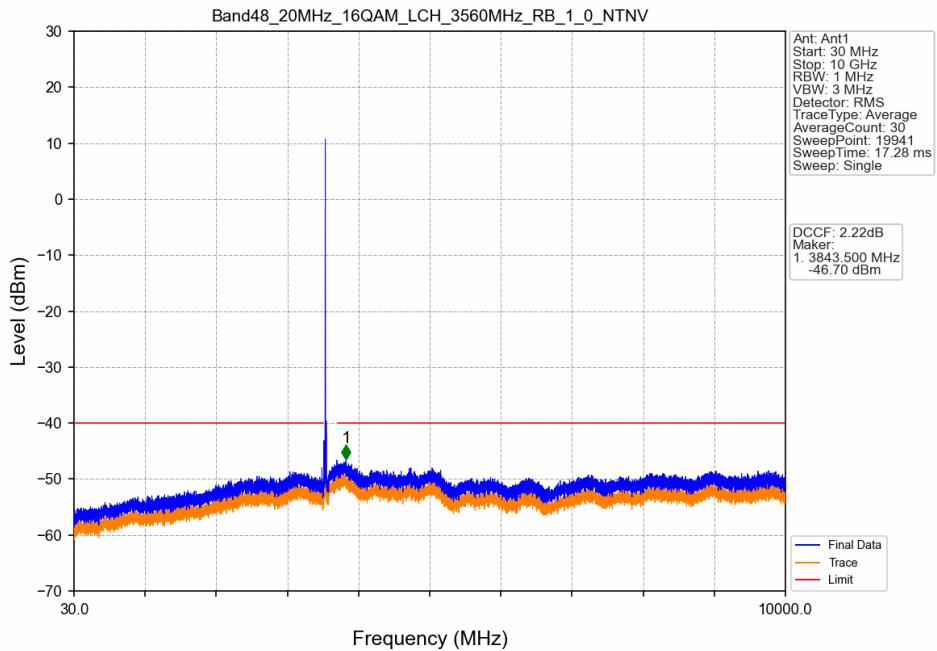
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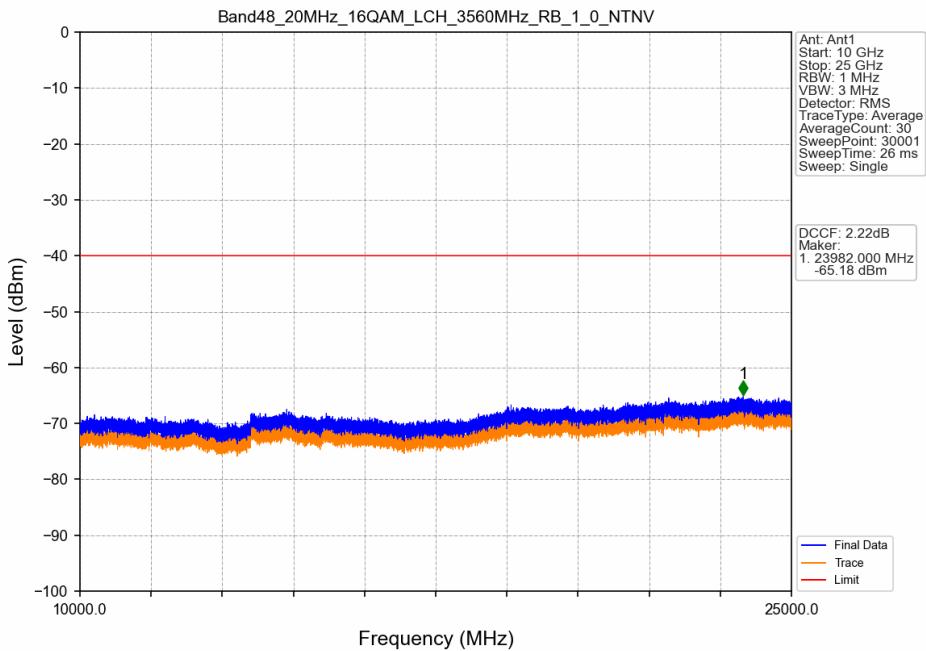
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## Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_1\_0\_NTNV



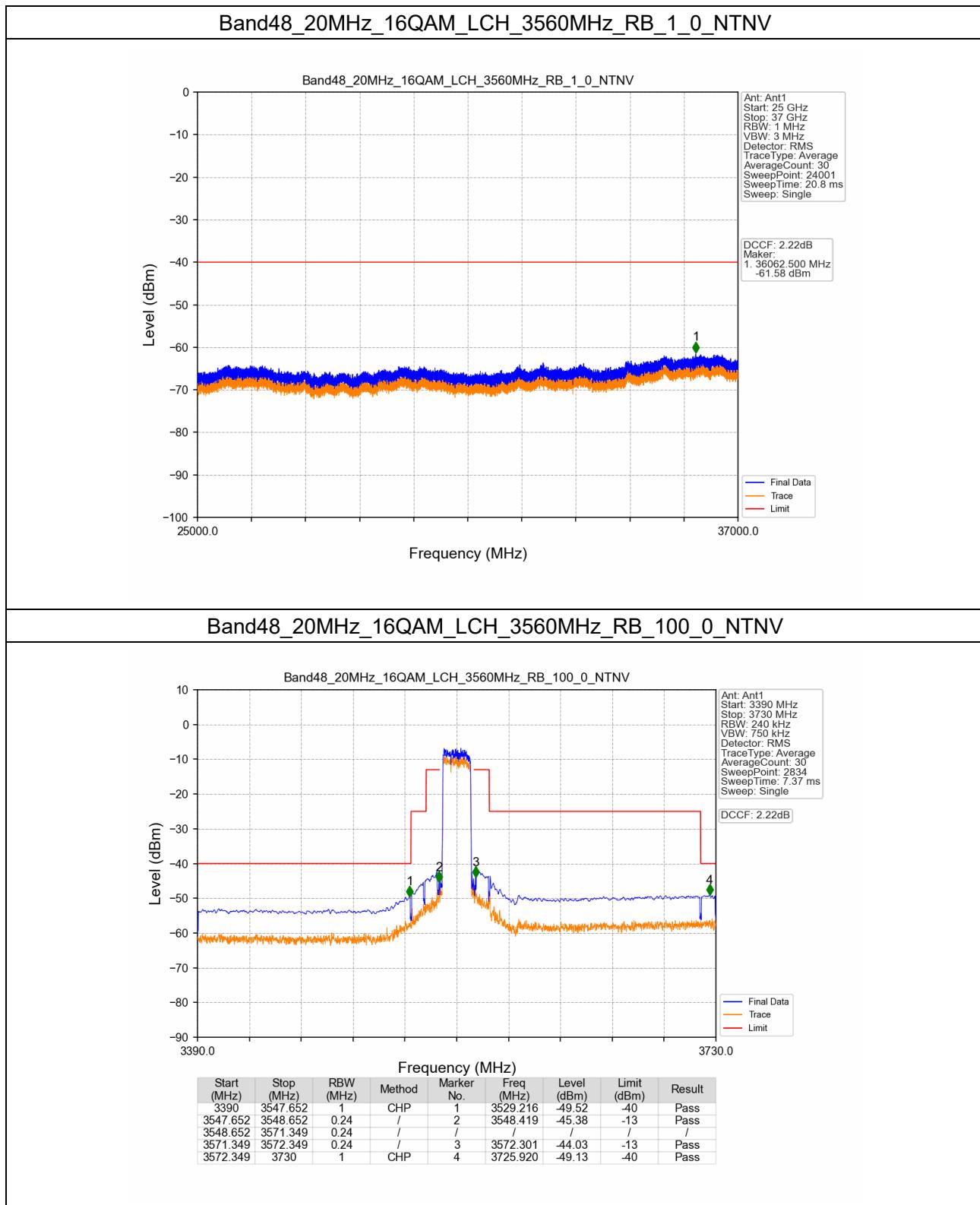
## Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_1\_0\_NTNV



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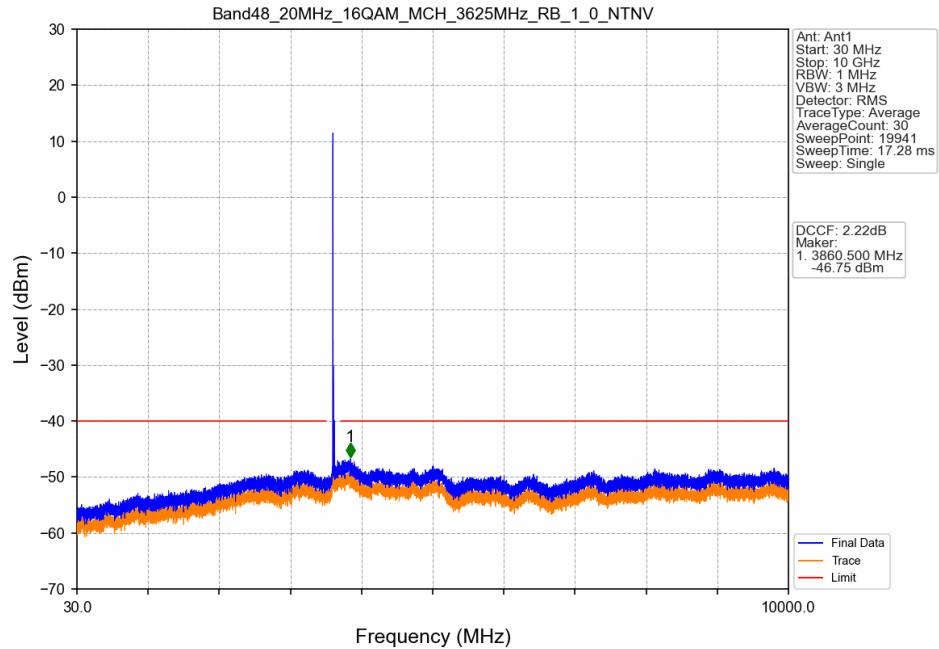
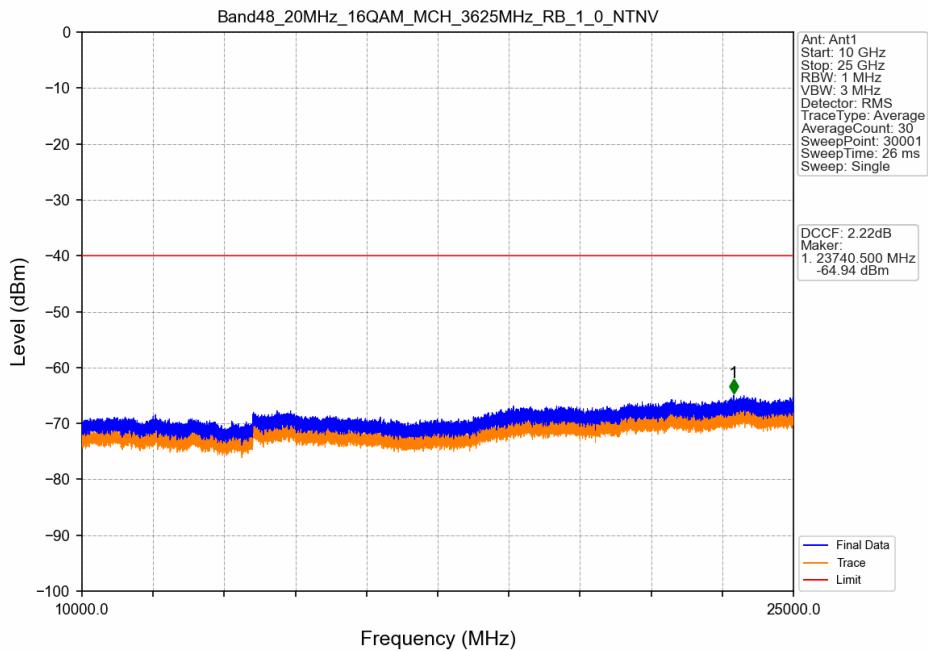


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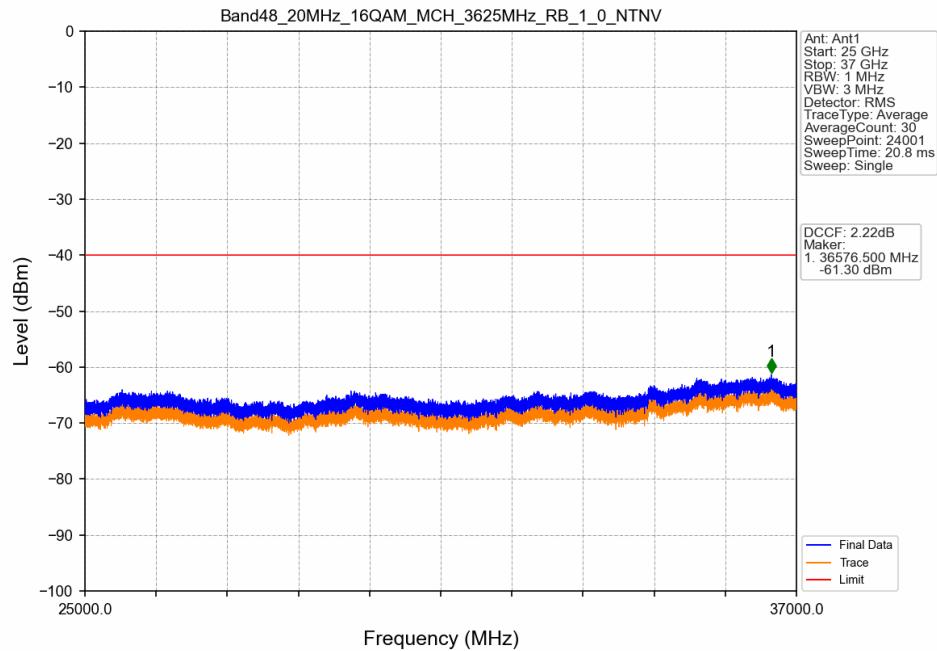
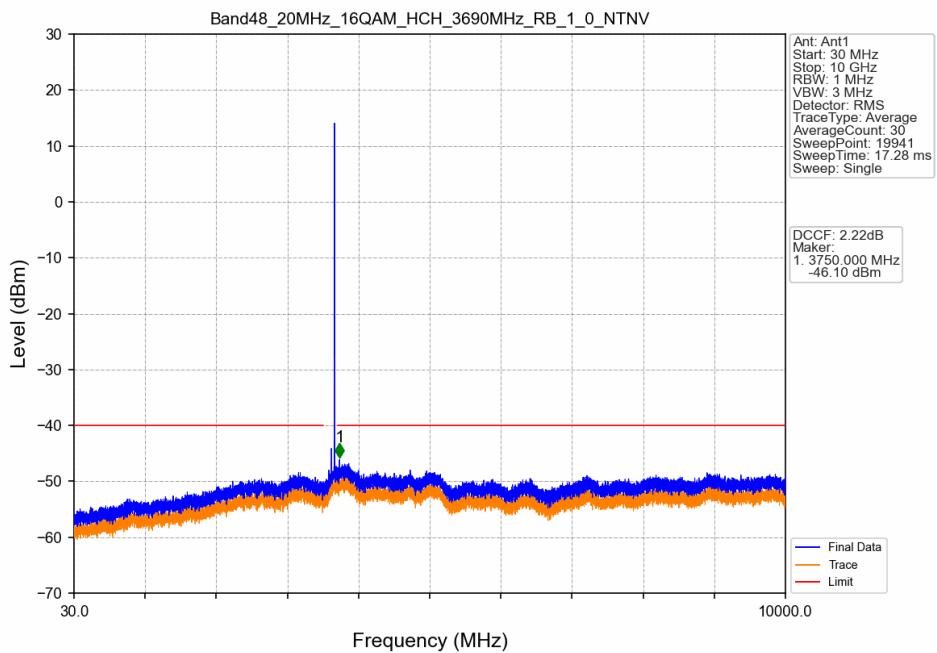
**Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_1\_0\_NTNV****Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_1\_0\_NTNV**

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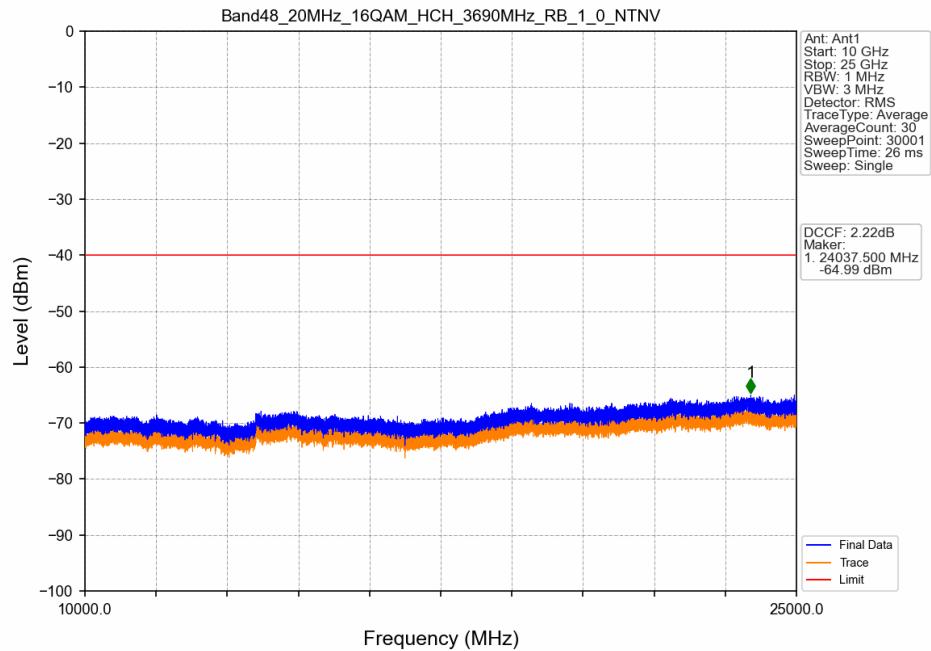
**Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_1\_0\_NTNV****Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_1\_0\_NTNV**

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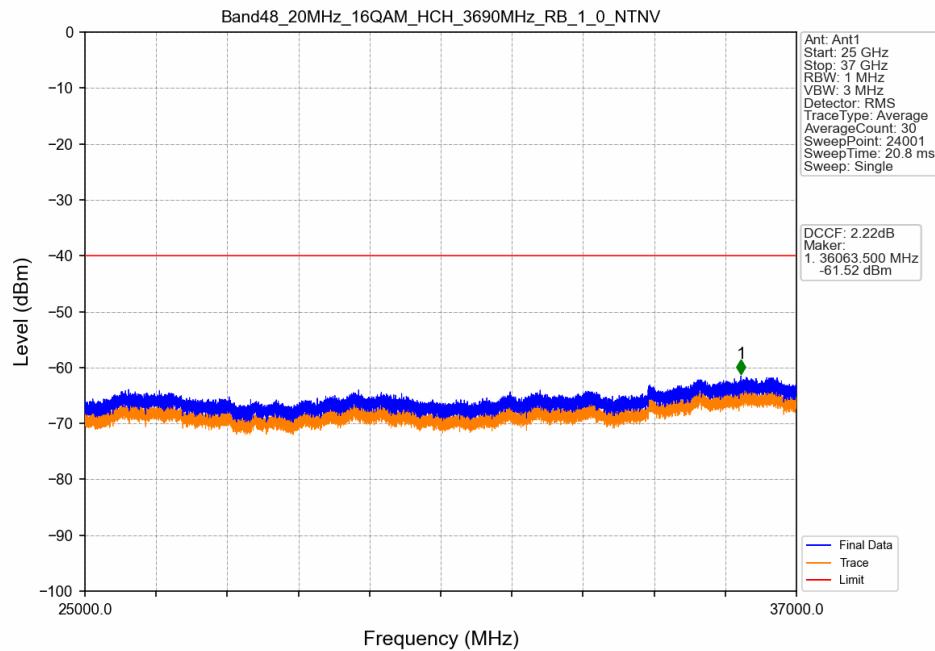
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## Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_1\_0\_NTNV



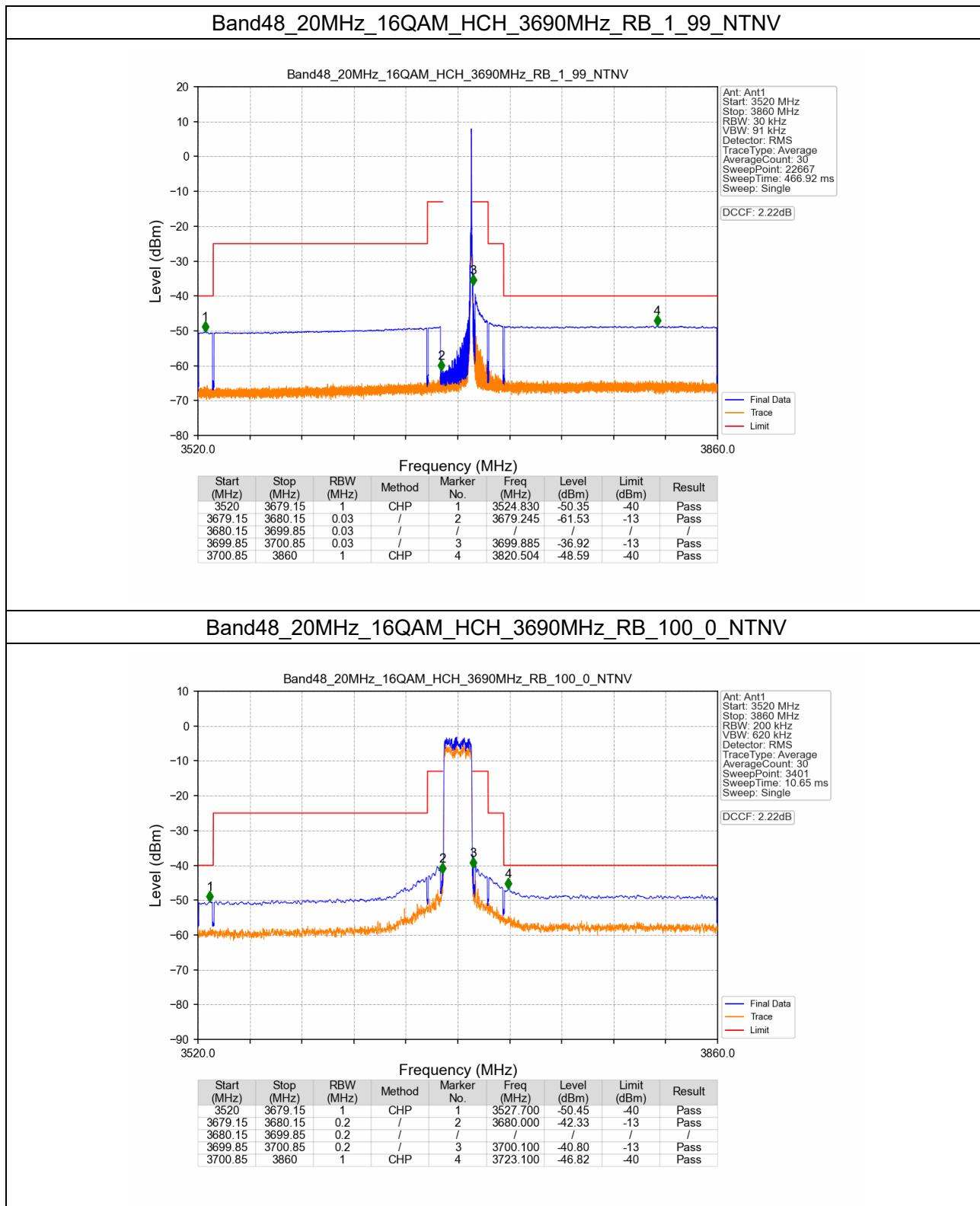
## Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_1\_0\_NTNV



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## 4. Frequency Stability

### 4.1 Test Result

#### 4.1.1 B48\_5MHz

Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3552.5	25	0	20	3.27	2.294	0.0006	-2.5 to 2.5	Pass
					3.85	-0.314	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.904	-0.0003	-2.5 to 2.5	Pass
				0	3.85	2.077	0.0006	-2.5 to 2.5	Pass
				10	3.85	-1.367	-0.0004	-2.5 to 2.5	Pass
				30	3.85	2.498	0.0007	-2.5 to 2.5	Pass
				40	3.85	-1.263	-0.0004	-2.5 to 2.5	Pass
	3625	25	0	20	3.27	1.082	0.0003	-2.5 to 2.5	Pass
					3.85	-1.815	-0.0005	-2.5 to 2.5	Pass
					4.43	2.196	0.0006	-2.5 to 2.5	Pass
				0	3.85	0.528	0.0001	-2.5 to 2.5	Pass
				10	3.85	1.449	0.0004	-2.5 to 2.5	Pass
				30	3.85	1.627	0.0004	-2.5 to 2.5	Pass
				40	3.85	2.402	0.0007	-2.5 to 2.5	Pass
16QAM	3697.5	25	0	20	3.27	1.560	0.0004	-2.5 to 2.5	Pass
					3.85	0.106	0.0000	-2.5 to 2.5	Pass
					4.43	0.925	0.0003	-2.5 to 2.5	Pass
				0	3.85	0.231	0.0001	-2.5 to 2.5	Pass
				10	3.85	0.110	0.0000	-2.5 to 2.5	Pass
				30	3.85	0.312	0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.121	0.0000	-2.5 to 2.5	Pass
	3552.5	25	0	20	3.27	0.182	0.0001	-2.5 to 2.5	Pass
					3.85	-1.309	-0.0004	-2.5 to 2.5	Pass
					4.43	-1.360	-0.0004	-2.5 to 2.5	Pass
				0	3.85	2.293	0.0006	-2.5 to 2.5	Pass
				10	3.85	-1.590	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-0.842	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-1.265	-0.0004	-2.5 to 2.5	Pass



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3625	25	0	20	3.27	-0.801	-0.0002	-2.5 to 2.5	Pass
				3.85	0.209	0.0001	-2.5 to 2.5	Pass
				4.43	0.740	0.0002	-2.5 to 2.5	Pass
			0	3.85	-0.921	-0.0003	-2.5 to 2.5	Pass
			10	3.85	0.514	0.0001	-2.5 to 2.5	Pass
			30	3.85	-0.359	-0.0001	-2.5 to 2.5	Pass
			40	3.85	0.058	0.0000	-2.5 to 2.5	Pass
			20	3.27	-0.709	-0.0002	-2.5 to 2.5	Pass
				3.85	-0.643	-0.0002	-2.5 to 2.5	Pass
				4.43	-1.817	-0.0005	-2.5 to 2.5	Pass
3697.5	25	0	0	3.85	1.762	0.0005	-2.5 to 2.5	Pass
			10	3.85	1.014	0.0003	-2.5 to 2.5	Pass
			30	3.85	-1.535	-0.0004	-2.5 to 2.5	Pass
			40	3.85	0.130	0.0000	-2.5 to 2.5	Pass

#### 4.1.2 B48\_10MHz

Band: 48 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		
		Size	Offset				Result	Limit	
QPSK	3555	50	0	20	3.27	-0.719	-0.0002	-2.5 to 2.5	Pass
					3.85	-4.171	-0.0012	-2.5 to 2.5	Pass
					4.43	-4.297	-0.0012	-2.5 to 2.5	Pass
			0	3.85	0.980	0.0003	-2.5 to 2.5	Pass	
			10	3.85	0.227	0.0001	-2.5 to 2.5	Pass	
			30	3.85	-4.765	-0.0013	-2.5 to 2.5	Pass	
			40	3.85	-2.579	-0.0007	-2.5 to 2.5	Pass	
	3625	50	0	20	3.27	-1.925	-0.0005	-2.5 to 2.5	Pass
					3.85	-2.962	-0.0008	-2.5 to 2.5	Pass
					4.43	-2.644	-0.0007	-2.5 to 2.5	Pass
			0	3.85	-3.590	-0.0010	-2.5 to 2.5	Pass	
			10	3.85	-1.011	-0.0003	-2.5 to 2.5	Pass	
			30	3.85	0.276	0.0001	-2.5 to 2.5	Pass	
			40	3.85	-2.705	-0.0007	-2.5 to 2.5	Pass	
	3695	50	0	20	3.27	0.434	0.0001	-2.5 to 2.5	Pass
					3.85	-0.299	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.674	-0.0002	-2.5 to 2.5	Pass
				0	3.85	0.354	0.0001	-2.5 to 2.5	Pass

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				10	3.85	-0.883	-0.0002	-2.5 to 2.5	Pass
				30	3.85	0.922	0.0002	-2.5 to 2.5	Pass
				40	3.85	-3.160	-0.0009	-2.5 to 2.5	Pass
16QAM	3555	50	0	20	3.27	-3.144	-0.0009	-2.5 to 2.5	Pass
					3.85	-3.043	-0.0009	-2.5 to 2.5	Pass
					4.43	0.121	0.0000	-2.5 to 2.5	Pass
				0	3.85	-3.717	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-2.552	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-3.729	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-2.984	-0.0008	-2.5 to 2.5	Pass
	3625	50	0	20	3.27	-4.012	-0.0011	-2.5 to 2.5	Pass
					3.85	-4.392	-0.0012	-2.5 to 2.5	Pass
					4.43	-2.629	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-3.121	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-3.082	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-4.000	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-3.849	-0.0011	-2.5 to 2.5	Pass
	3695	50	0	20	3.27	-1.487	-0.0004	-2.5 to 2.5	Pass
					3.85	-2.030	-0.0005	-2.5 to 2.5	Pass
					4.43	-1.183	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-1.457	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-2.853	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-0.242	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.412	-0.0001	-2.5 to 2.5	Pass

#### 4.1.3 B48\_15MHz

Band: 48 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		
		Size	Offset				Result	Limit	
QPSK	3557.5	75	0	20	3.27	-5.051	-0.0014	-2.5 to 2.5	Pass
					3.85	-2.283	-0.0006	-2.5 to 2.5	Pass
					4.43	-4.108	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-3.051	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-1.505	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-4.639	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-1.670	-0.0005	-2.5 to 2.5	Pass
	3625	75	0	20	3.27	-4.053	-0.0011	-2.5 to 2.5	Pass



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	3692.5	75	0	3.85	-0.066	0.0000	-2.5 to 2.5	Pass	
				4.43	-0.322	-0.0001	-2.5 to 2.5	Pass	
				0	3.85	-1.481	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.865	-0.0002	-2.5 to 2.5	Pass
				30	3.85	1.044	0.0003	-2.5 to 2.5	Pass
				40	3.85	-1.483	-0.0004	-2.5 to 2.5	Pass
				20	3.27	-1.577	-0.0004	-2.5 to 2.5	Pass
				3.85	-0.986	-0.0003	-2.5 to 2.5	Pass	
				4.43	0.741	0.0002	-2.5 to 2.5	Pass	
				0	3.85	-2.581	-0.0007	-2.5 to 2.5	Pass
16QAM	3557.5	75	0	10	3.85	-1.052	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-2.139	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-2.866	-0.0008	-2.5 to 2.5	Pass
				20	3.27	0.534	0.0002	-2.5 to 2.5	Pass
				3.85	-4.334	-0.0012	-2.5 to 2.5	Pass	
				4.43	-3.837	-0.0011	-2.5 to 2.5	Pass	
				0	3.85	-1.225	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-3.615	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-0.526	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-1.605	-0.0005	-2.5 to 2.5	Pass
16QAM	3625	75	0	20	3.27	-4.028	-0.0011	-2.5 to 2.5	Pass
				3.85	-0.745	-0.0002	-2.5 to 2.5	Pass	
				4.43	-0.850	-0.0002	-2.5 to 2.5	Pass	
				0	3.85	-1.582	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-2.534	-0.0007	-2.5 to 2.5	Pass
				30	3.85	0.136	0.0000	-2.5 to 2.5	Pass
				40	3.85	-1.038	-0.0003	-2.5 to 2.5	Pass
				20	3.27	0.128	0.0000	-2.5 to 2.5	Pass
				3.85	-2.236	-0.0006	-2.5 to 2.5	Pass	
				4.43	-2.548	-0.0007	-2.5 to 2.5	Pass	
16QAM	3692.5	75	0	0	3.85	-0.426	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-3.834	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-1.450	-0.0004	-2.5 to 2.5	Pass
				40	3.85	0.173	0.0000	-2.5 to 2.5	Pass

#### 4.1.4 B48\_20MHz

Band: 48 / Bandwidth: 20MHz
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Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3560	100	0	20	3.27	-1.597	-0.0004	-2.5 to 2.5	Pass
					3.85	-1.470	-0.0004	-2.5 to 2.5	Pass
					4.43	-0.503	-0.0001	-2.5 to 2.5	Pass
				0	3.85	0.814	0.0002	-2.5 to 2.5	Pass
				10	3.85	0.367	0.0001	-2.5 to 2.5	Pass
				30	3.85	-1.528	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-3.816	-0.0011	-2.5 to 2.5	Pass
	3625	100	0	20	3.27	-2.690	-0.0007	-2.5 to 2.5	Pass
					3.85	-2.911	-0.0008	-2.5 to 2.5	Pass
					4.43	-0.203	-0.0001	-2.5 to 2.5	Pass
				0	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	-1.728	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.606	-0.0002	-2.5 to 2.5	Pass
				40	3.85	1.420	0.0004	-2.5 to 2.5	Pass
16QAM	3690	100	0	20	3.27	-2.431	-0.0007	-2.5 to 2.5	Pass
					3.85	0.505	0.0001	-2.5 to 2.5	Pass
					4.43	0.990	0.0003	-2.5 to 2.5	Pass
				0	3.85	0.455	0.0001	-2.5 to 2.5	Pass
				10	3.85	-1.287	-0.0003	-2.5 to 2.5	Pass
				30	3.85	0.658	0.0002	-2.5 to 2.5	Pass
				40	3.85	-2.249	-0.0006	-2.5 to 2.5	Pass
	3560	100	0	20	3.27	-0.639	-0.0002	-2.5 to 2.5	Pass
					3.85	-1.607	-0.0005	-2.5 to 2.5	Pass
					4.43	-1.432	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-4.112	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-2.864	-0.0008	-2.5 to 2.5	Pass
				30	3.85	0.224	0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.720	-0.0002	-2.5 to 2.5	Pass
	3625	100	0	20	3.27	-1.915	-0.0005	-2.5 to 2.5	Pass
					3.85	-3.639	-0.0010	-2.5 to 2.5	Pass
					4.43	-3.557	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-1.315	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.244	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-4.156	-0.0011	-2.5 to 2.5	Pass
				40	3.85	0.477	0.0001	-2.5 to 2.5	Pass

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3690	100	0	20	3.27	0.661	0.0002	-2.5 to 2.5	Pass
				3.85	0.508	0.0001	-2.5 to 2.5	Pass
				4.43	-1.543	-0.0004	-2.5 to 2.5	Pass
			0	3.85	-0.569	-0.0002	-2.5 to 2.5	Pass
			10	3.85	0.741	0.0002	-2.5 to 2.5	Pass
			30	3.85	-0.312	-0.0001	-2.5 to 2.5	Pass
			40	3.85	1.154	0.0003	-2.5 to 2.5	Pass

## 5. Peak-Average Ratio

### 5.1 Test Result

#### 5.1.1 B48\_5MHz

Band: 48 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3552.5	25	0	7.45	<=13	Pass
	3625	25	0	7.51	<=13	Pass
	3697.5	25	0	7.60	<=13	Pass
16QAM	3552.5	25	0	8.21	<=13	Pass
	3625	25	0	8.30	<=13	Pass
	3697.5	25	0	8.56	<=13	Pass

#### 5.1.2 B48\_10MHz

Band: 48 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3555	50	0	7.46	<=13	Pass
	3625	50	0	7.53	<=13	Pass
	3695	50	0	7.49	<=13	Pass
16QAM	3555	50	0	8.39	<=13	Pass
	3625	50	0	8.40	<=13	Pass
	3695	50	0	8.45	<=13	Pass

#### 5.1.3 B48\_15MHz



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Band: 48 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3557.5	75	0	7.58	<=13	Pass
	3625	75	0	7.67	<=13	Pass
	3692.5	75	0	7.56	<=13	Pass
16QAM	3557.5	75	0	8.43	<=13	Pass
	3625	75	0	8.46	<=13	Pass
	3692.5	75	0	8.40	<=13	Pass

### 5.1.4 B48\_20MHz

Band: 48 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3560	100	0	7.28	<=13	Pass
	3625	100	0	7.30	<=13	Pass
	3690	100	0	7.37	<=13	Pass
16QAM	3560	100	0	8.31	<=13	Pass
	3625	100	0	8.24	<=13	Pass
	3690	100	0	8.31	<=13	Pass



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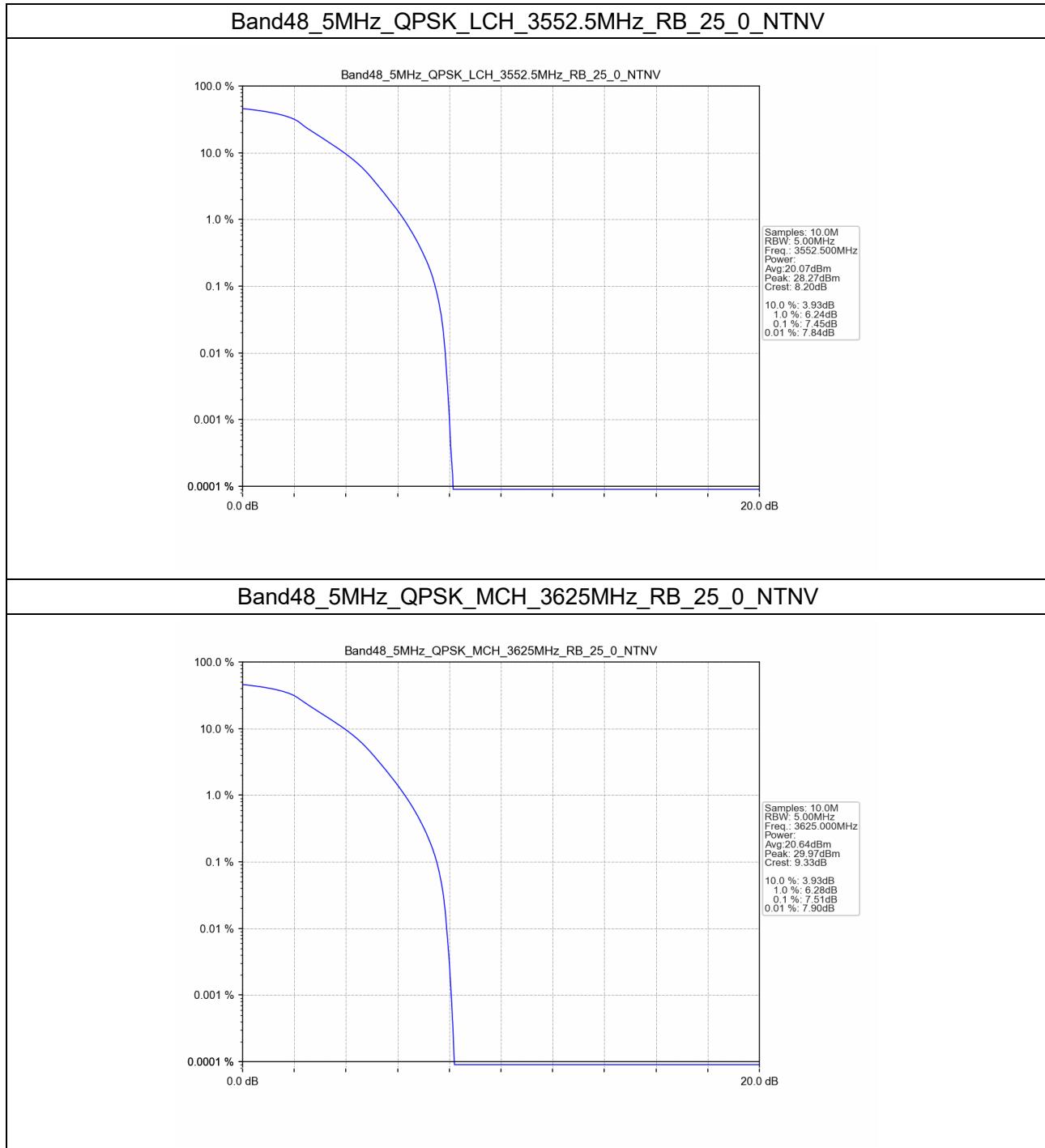
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## 5.2 Test Graph

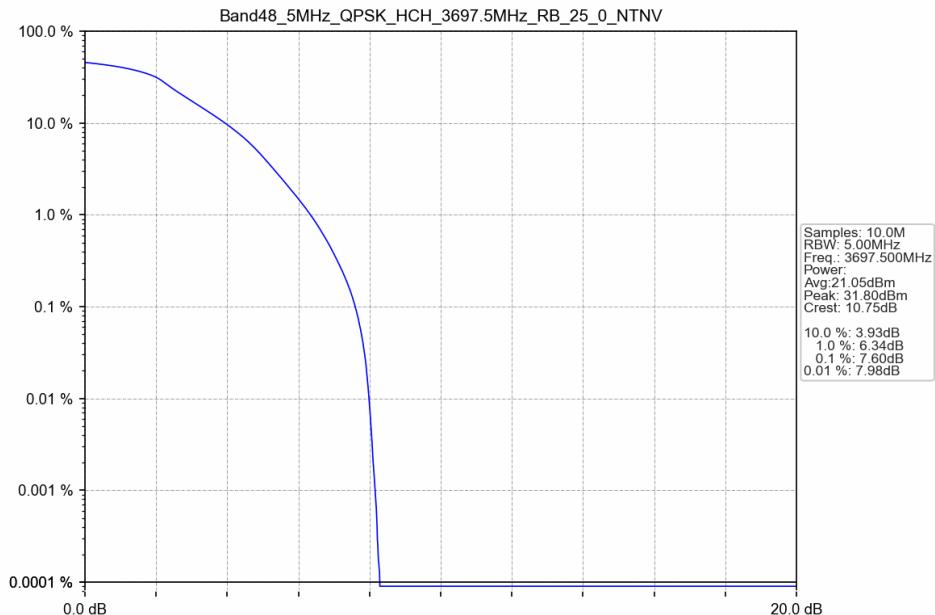
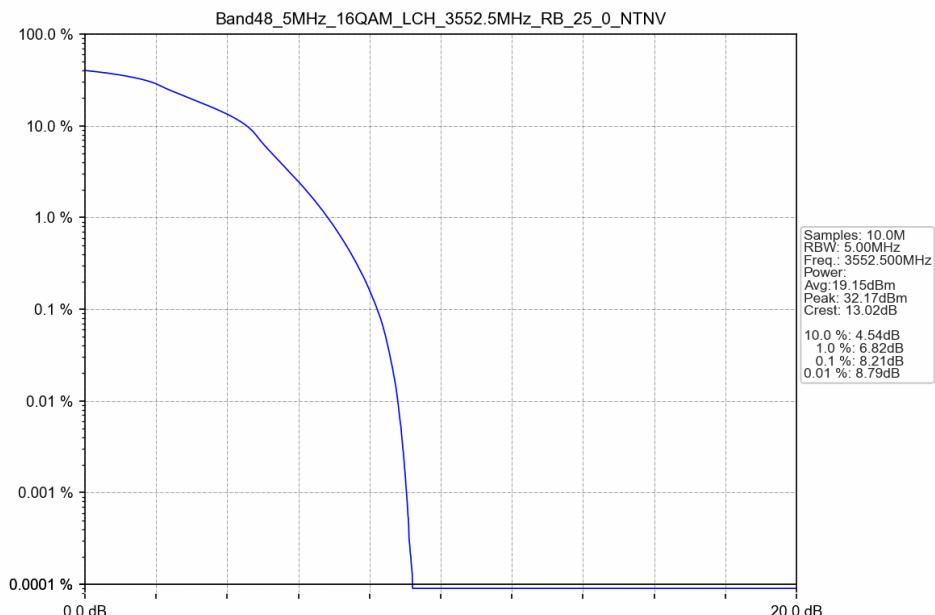
### 5.2.1 B48\_5MHz



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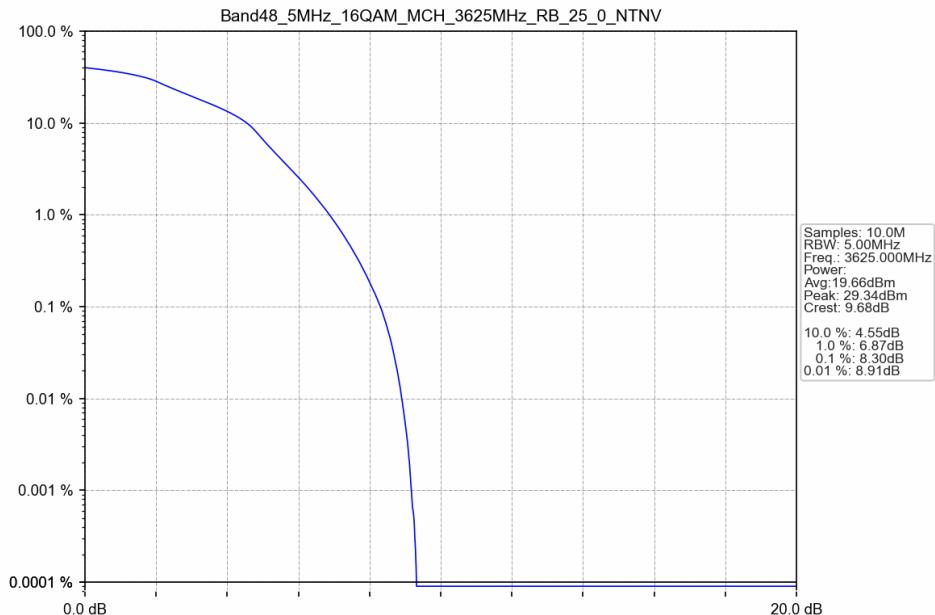
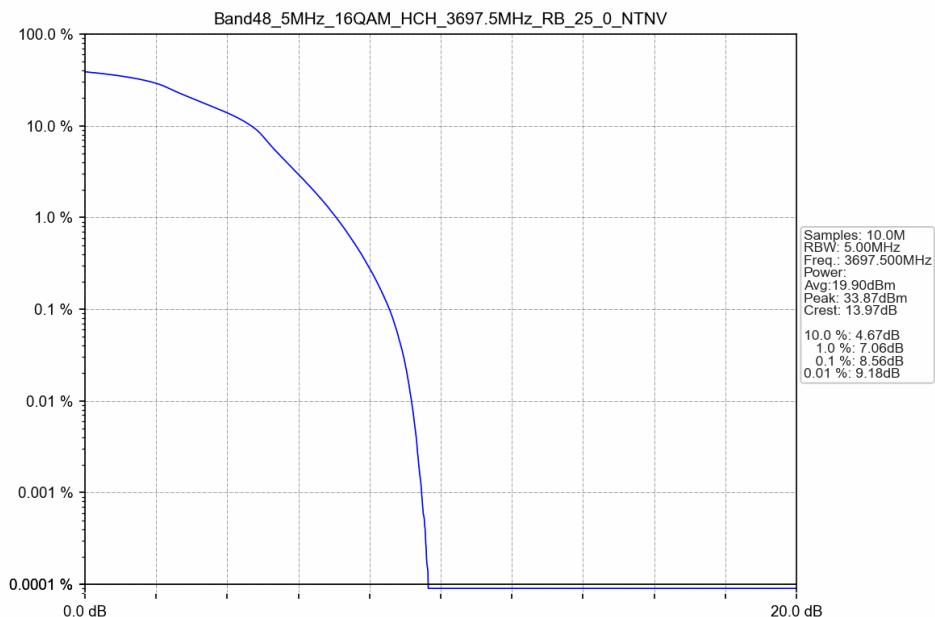
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**Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV****Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV**

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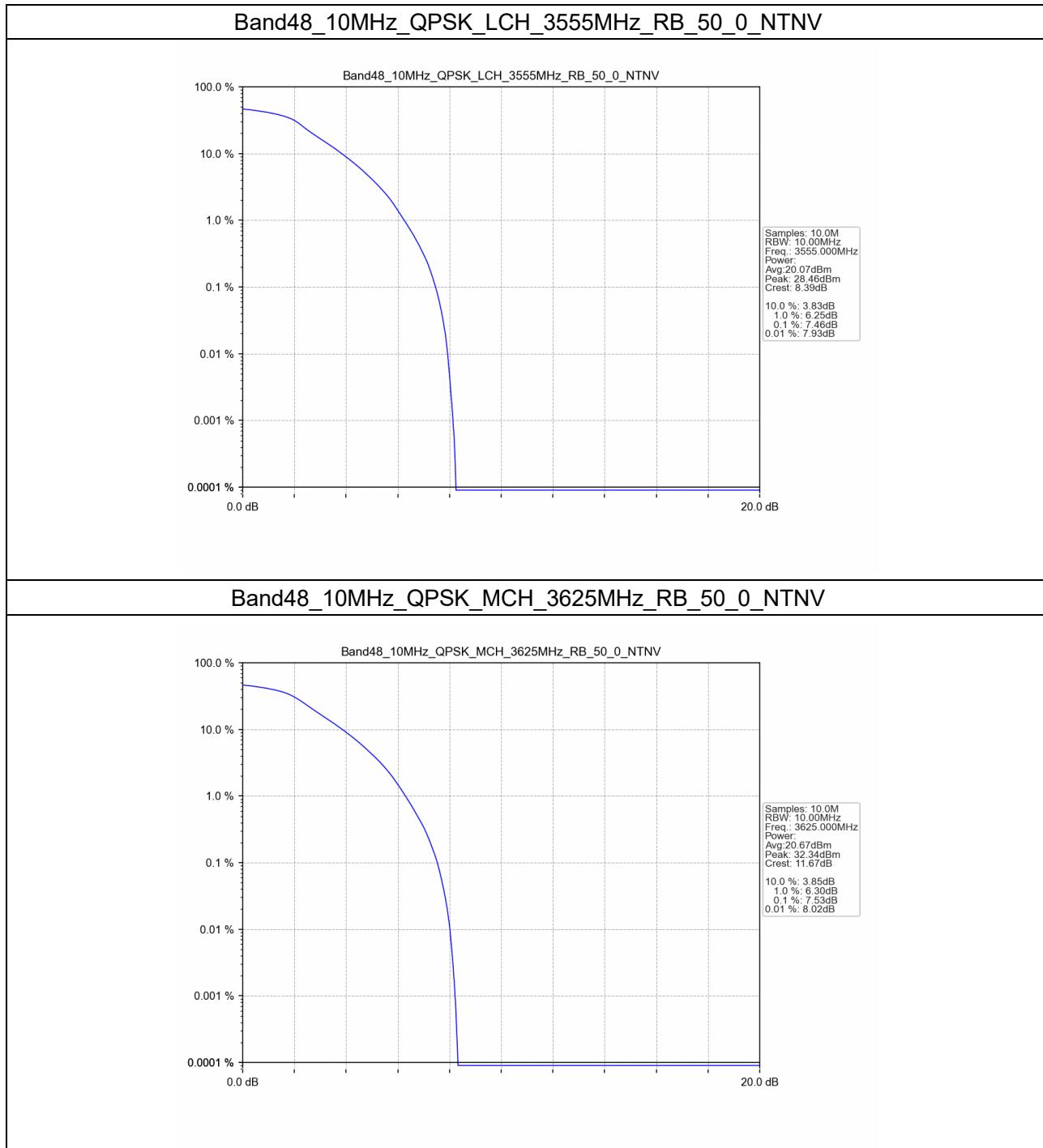
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**Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV****Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV**

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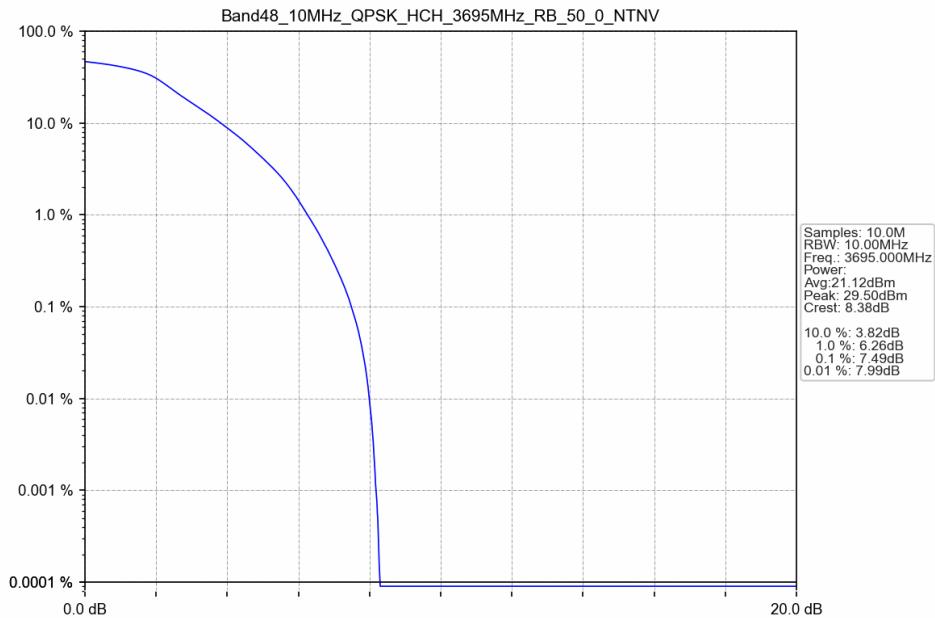
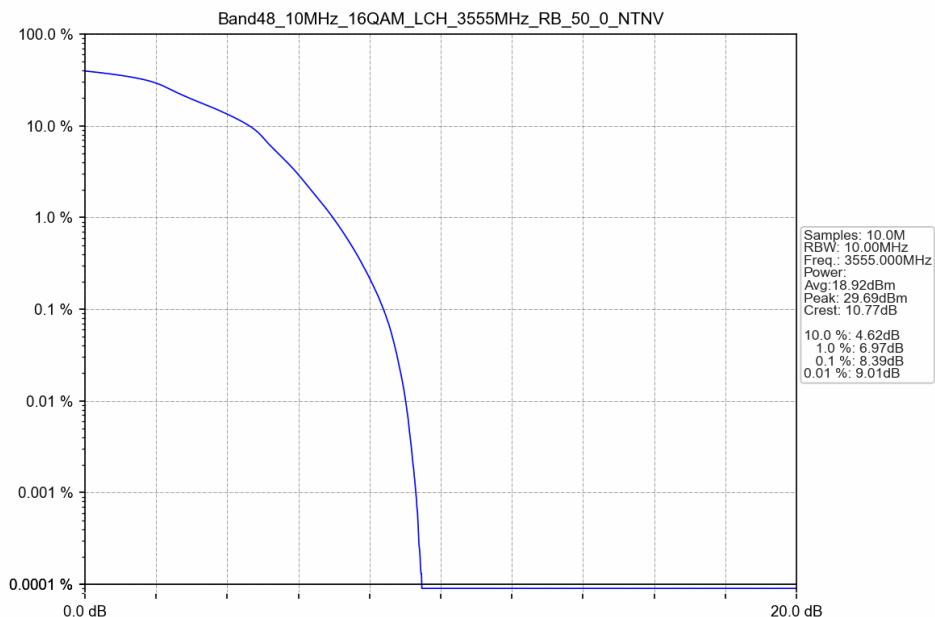
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**5.2.2 B48\_10MHz**

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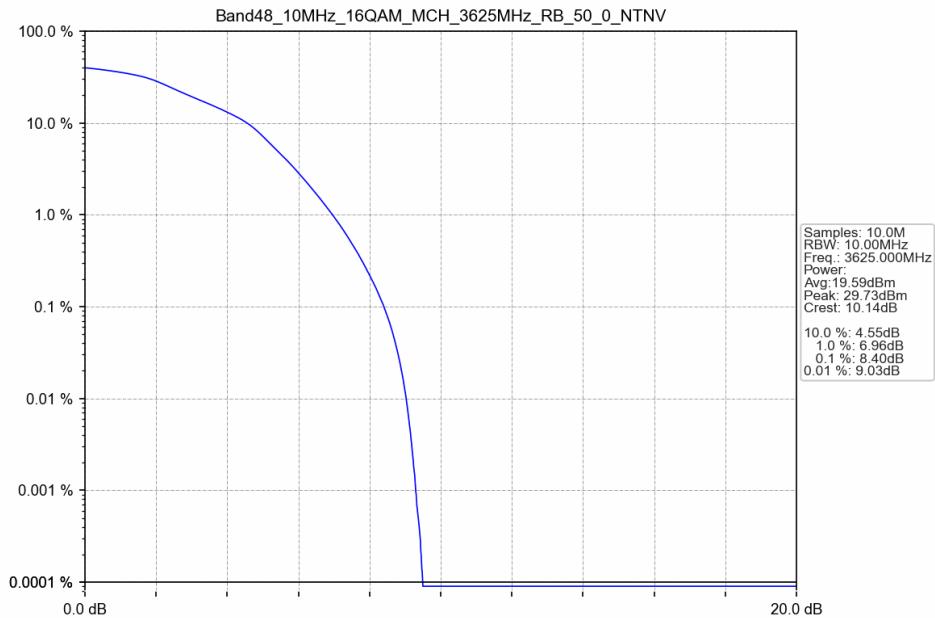
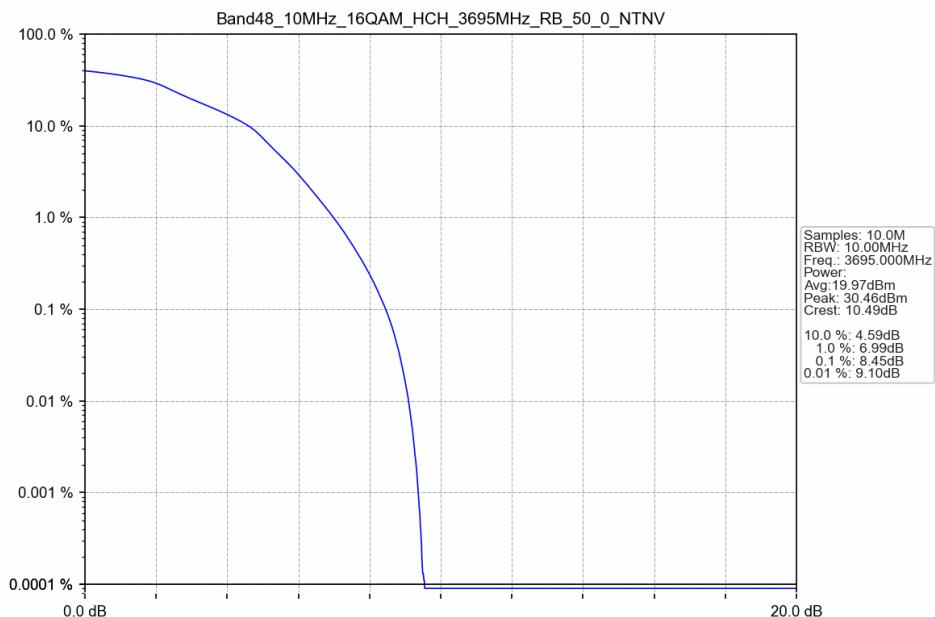
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**Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV****Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV**

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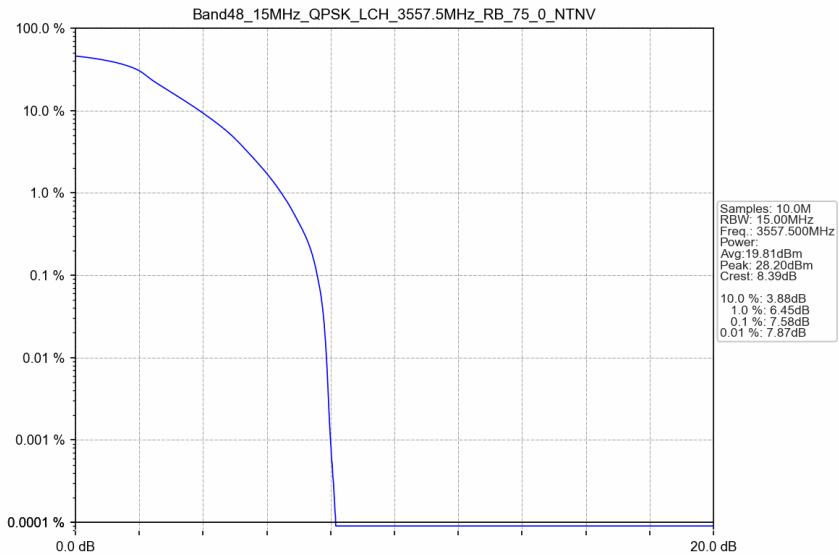
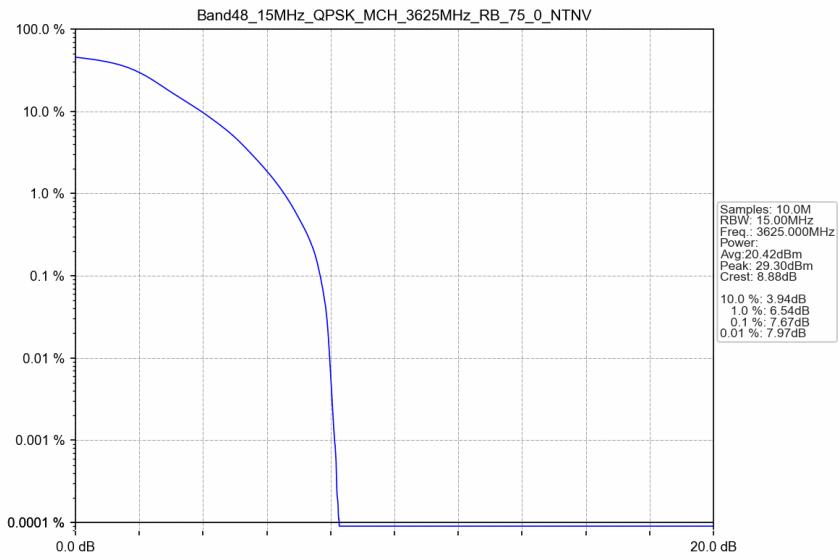
**Band48\_10MHz\_16QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV****Band48\_10MHz\_16QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV**

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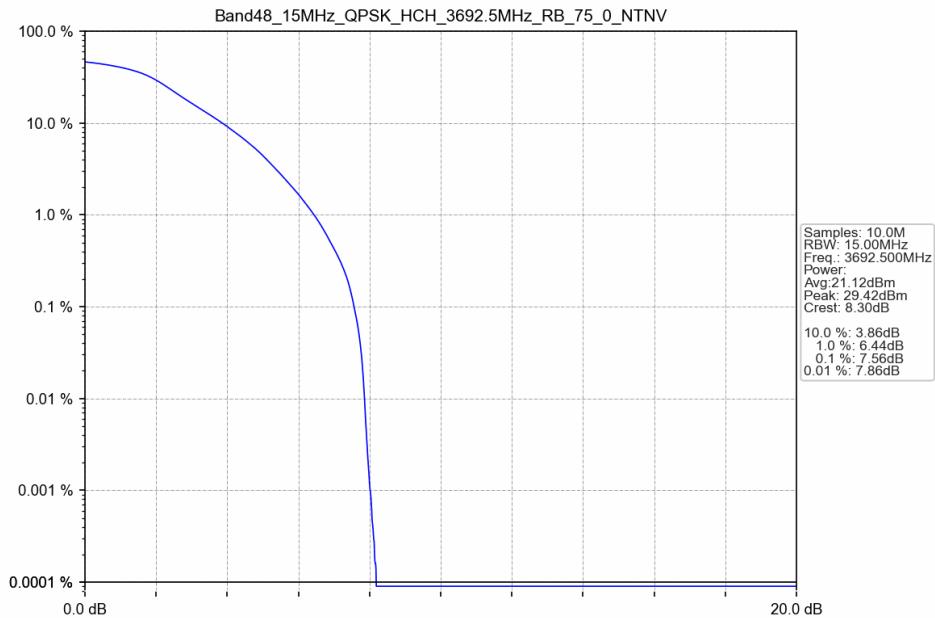
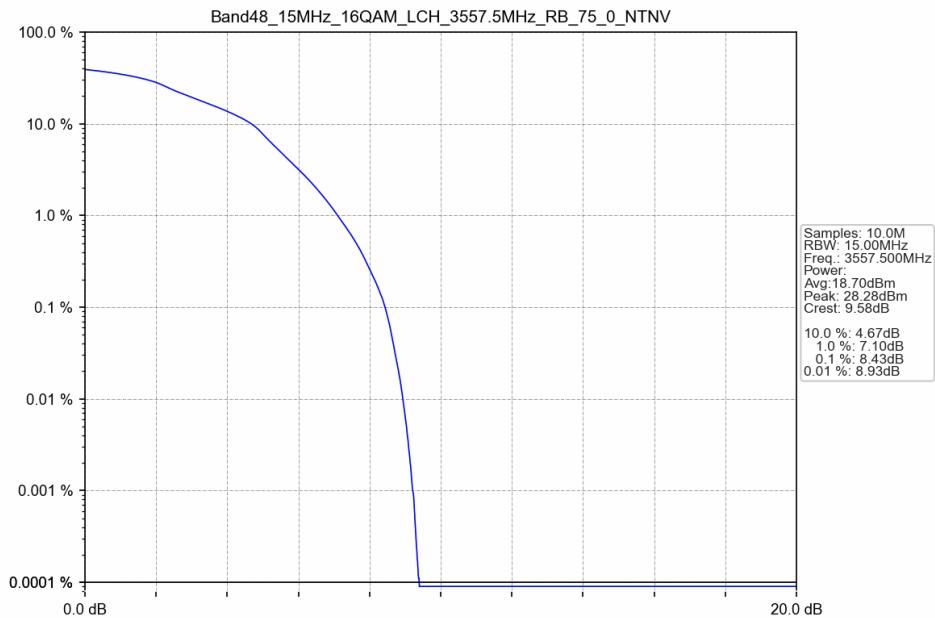
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**5.2.3 B48\_15MHz****Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV****Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV**

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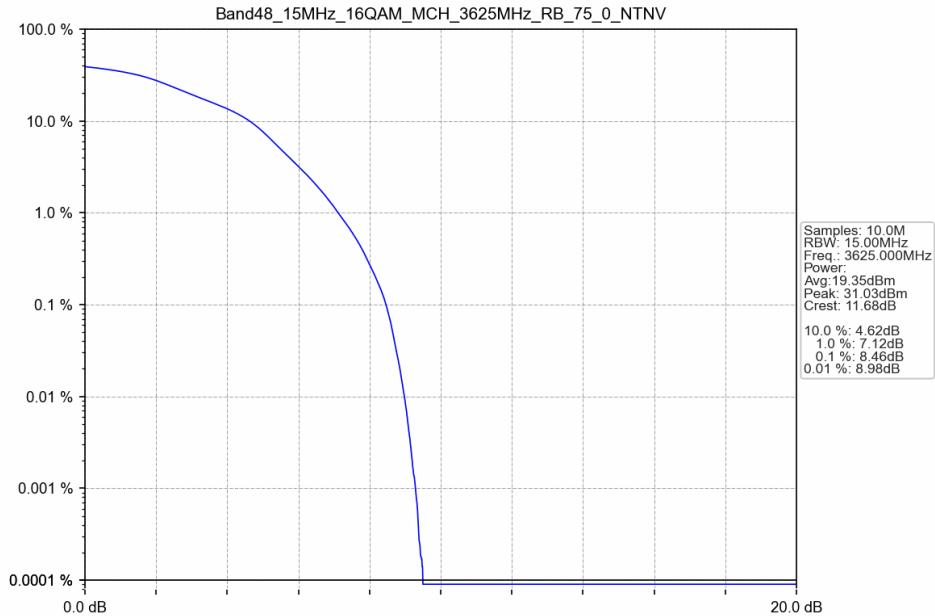
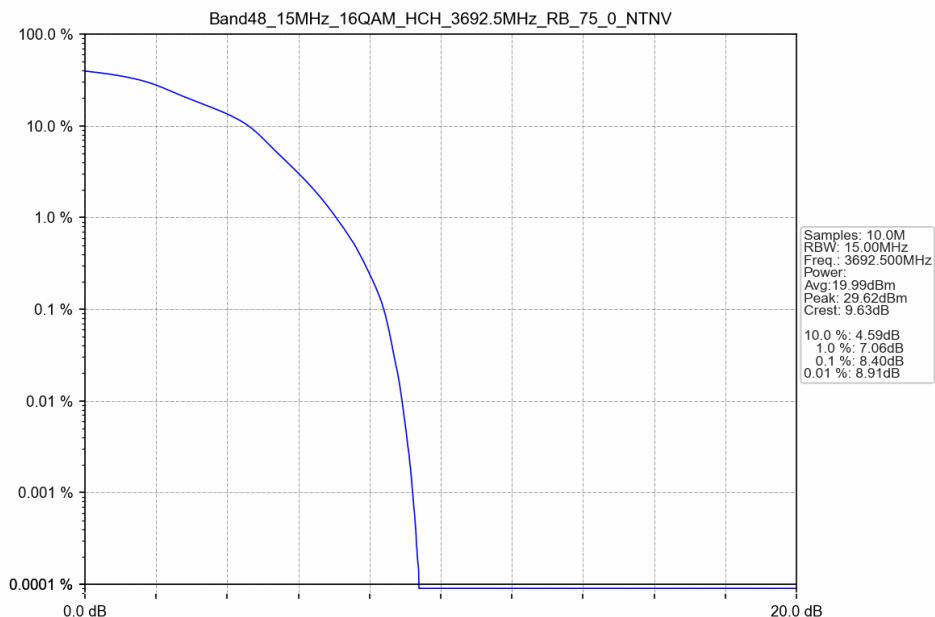
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**Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV****Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV**

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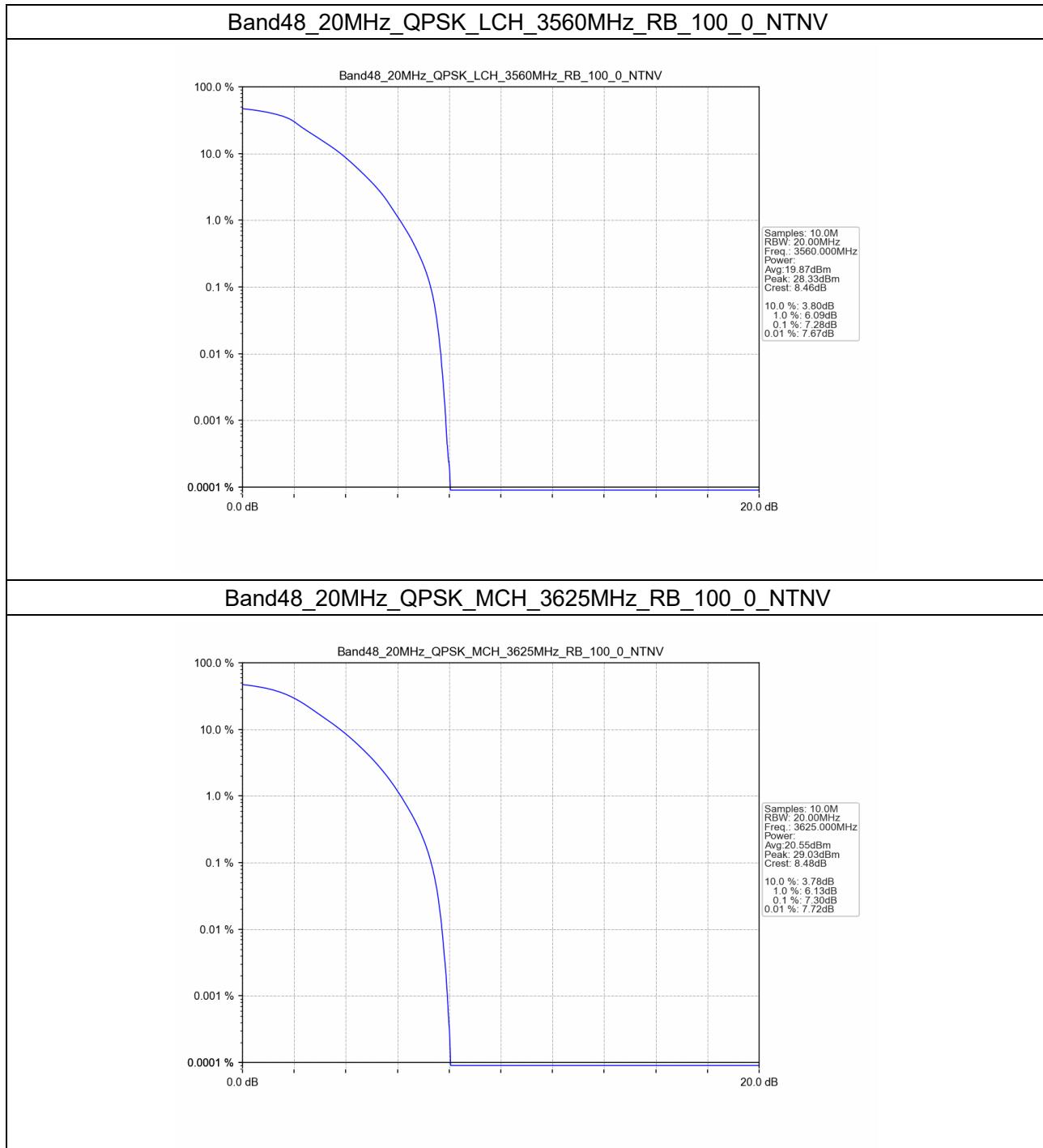
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**Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV****Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV**

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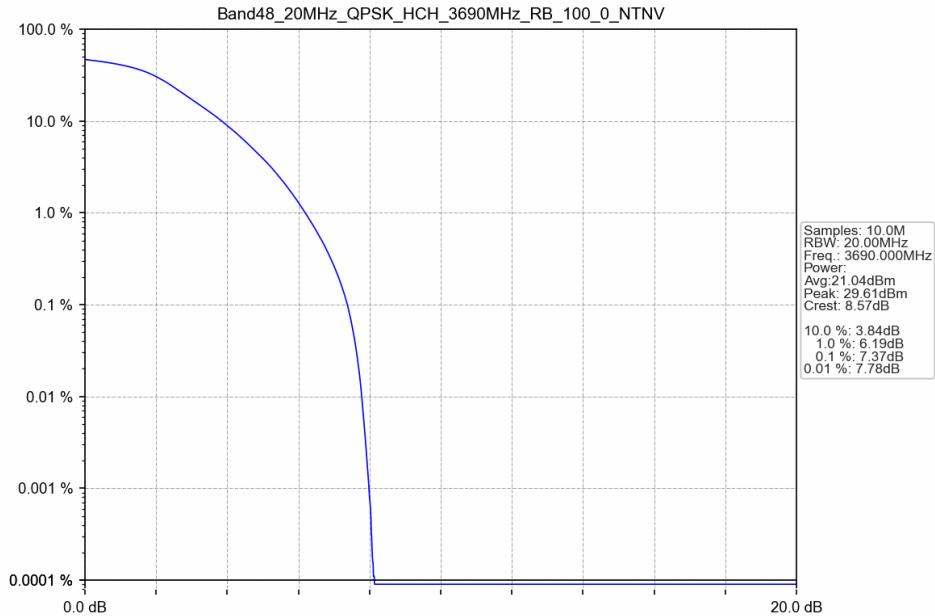
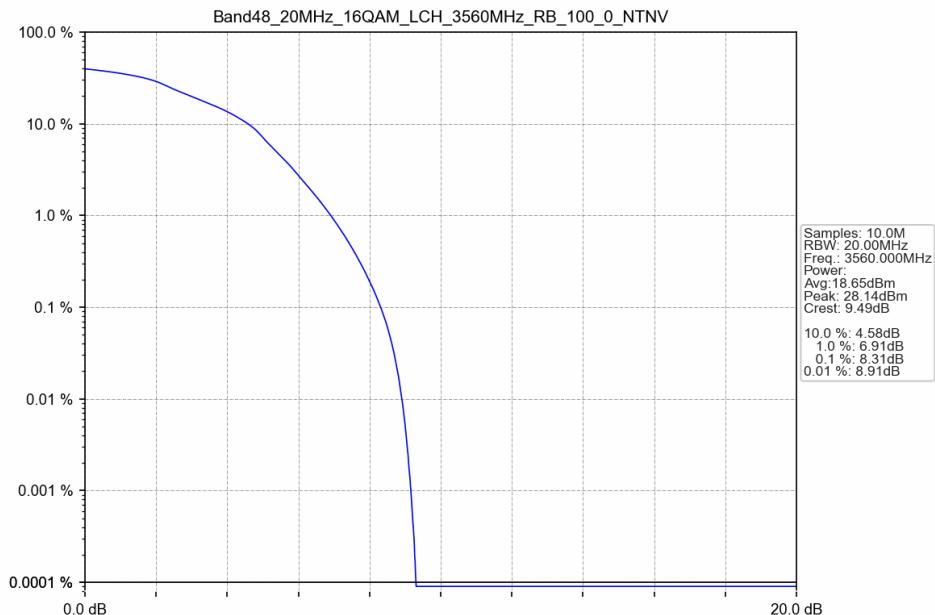
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**5.2.4 B48\_20MHz**

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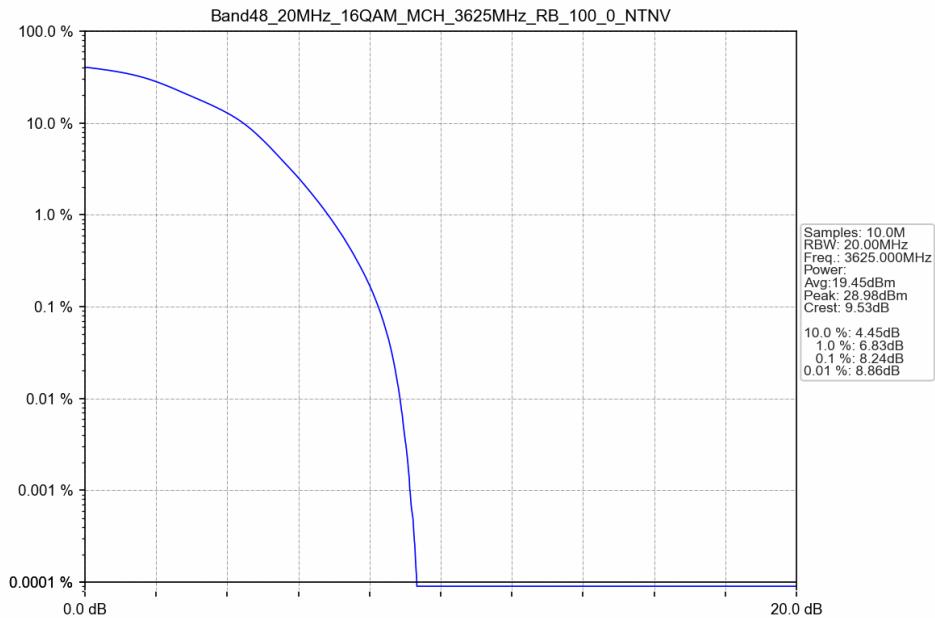
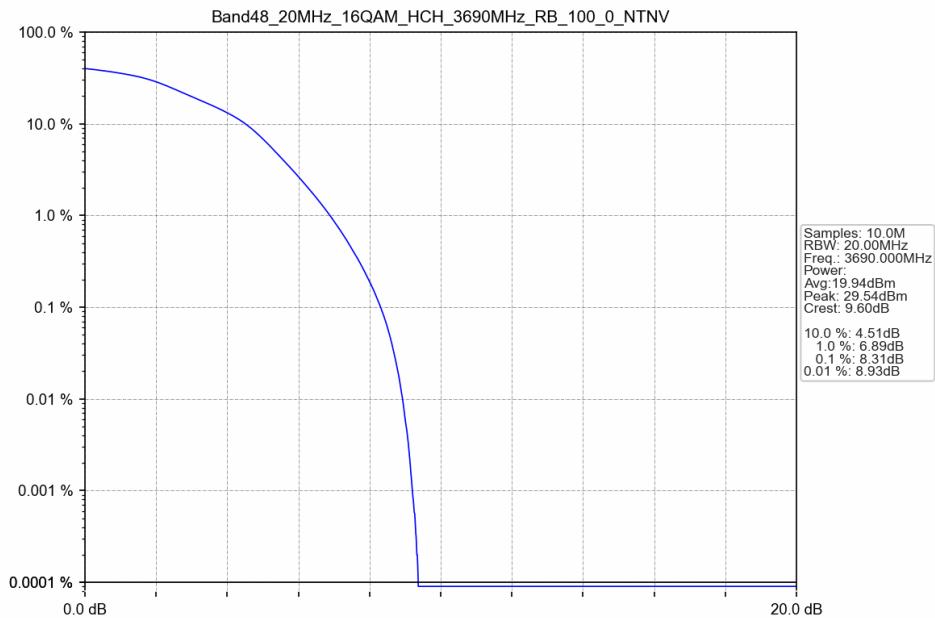
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**Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV****Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV**

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**Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV****Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV**

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## 6. Field Strength of Spurious Radiation

LTE Band 48-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7120	-56.54	-40	-16.54	-63.62	4.2	11.28	Horizontal	Pass
10680	-52.47	-40	-12.47	-60.56	5.08	13.17	Horizontal	Pass
14240	-47.6	-40	-7.6	-57.05	5.0	14.45	Horizontal	Pass
7120	-56.3	-40	-16.3	-63.38	4.2	11.28	Vertical	Pass
10680	-53.1	-40	-13.1	-61.19	5.08	13.17	Vertical	Pass
14240	-47.58	-40	-7.58	-57.03	5.0	14.45	Vertical	Pass
LTE Band 48-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7232	-57.48	-40	-17.48	-64.69	4.2	11.41	Horizontal	Pass
10848	-54.81	-40	-14.81	-62.96	5.07	13.22	Horizontal	Pass
14464	-48.42	-40	-8.42	-57.68	5.16	14.42	Horizontal	Pass
7232	-57.1	-40	-17.1	-64.31	4.2	11.41	Vertical	Pass
10848	-54.44	-40	-14.44	-62.59	5.07	13.22	Vertical	Pass
14464	-48.29	-40	-8.29	-57.55	5.16	14.42	Vertical	Pass
LTE Band 48-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7380	-54.63	-40	-14.63	-62.01	4.21	11.59	Horizontal	Pass
11070	-51.34	-40	-11.34	-59.54	5.07	13.27	Horizontal	Pass
14760	-47.83	-40	-7.83	-56.92	5.38	14.47	Horizontal	Pass
7380	-56.07	-40	-16.07	-63.45	4.21	11.59	Vertical	Pass
11070	-51.45	-40	-11.45	-59.65	5.07	13.27	Vertical	Pass
14760	-48.16	-40	-8.16	-57.25	5.38	14.47	Vertical	Pass

---End of Attachment---



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