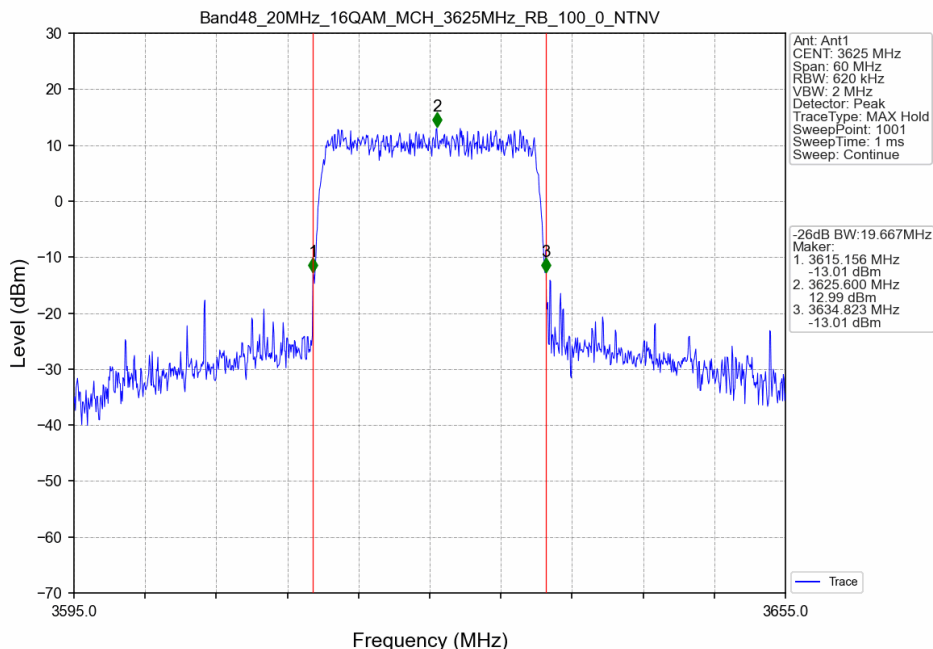
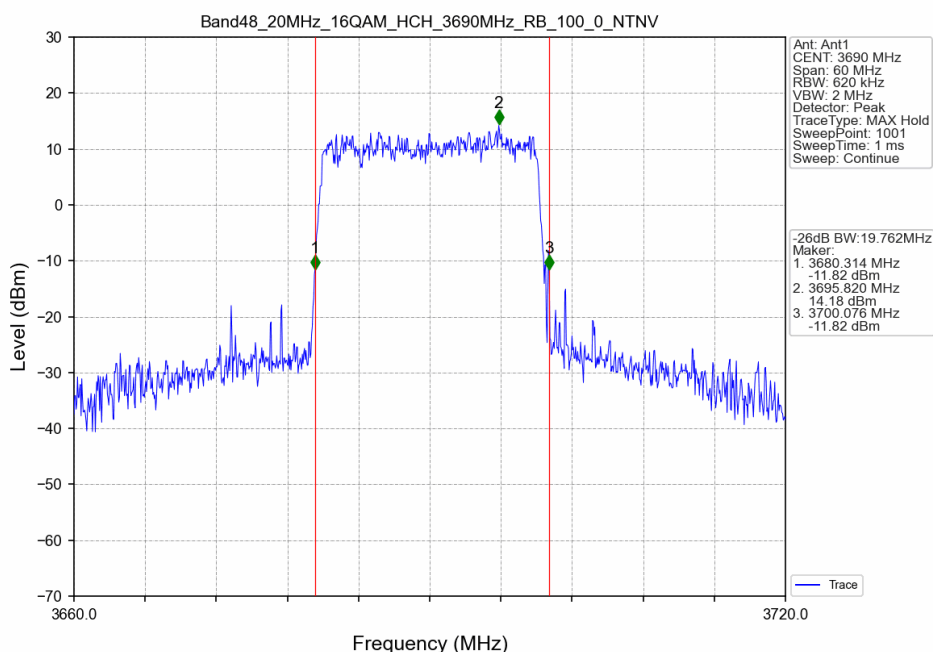


Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



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### 4. Peak-Average Ratio

#### 4.1 Test Result

##### 4.1.1 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	7.52	<=13	Pass
	3625	100	0	7.65	<=13	Pass
	3690	100	0	7.80	<=13	Pass
16QAM	3560	100	0	8.23	<=13	Pass
	3625	100	0	8.33	<=13	Pass
	3690	100	0	8.41	<=13	Pass



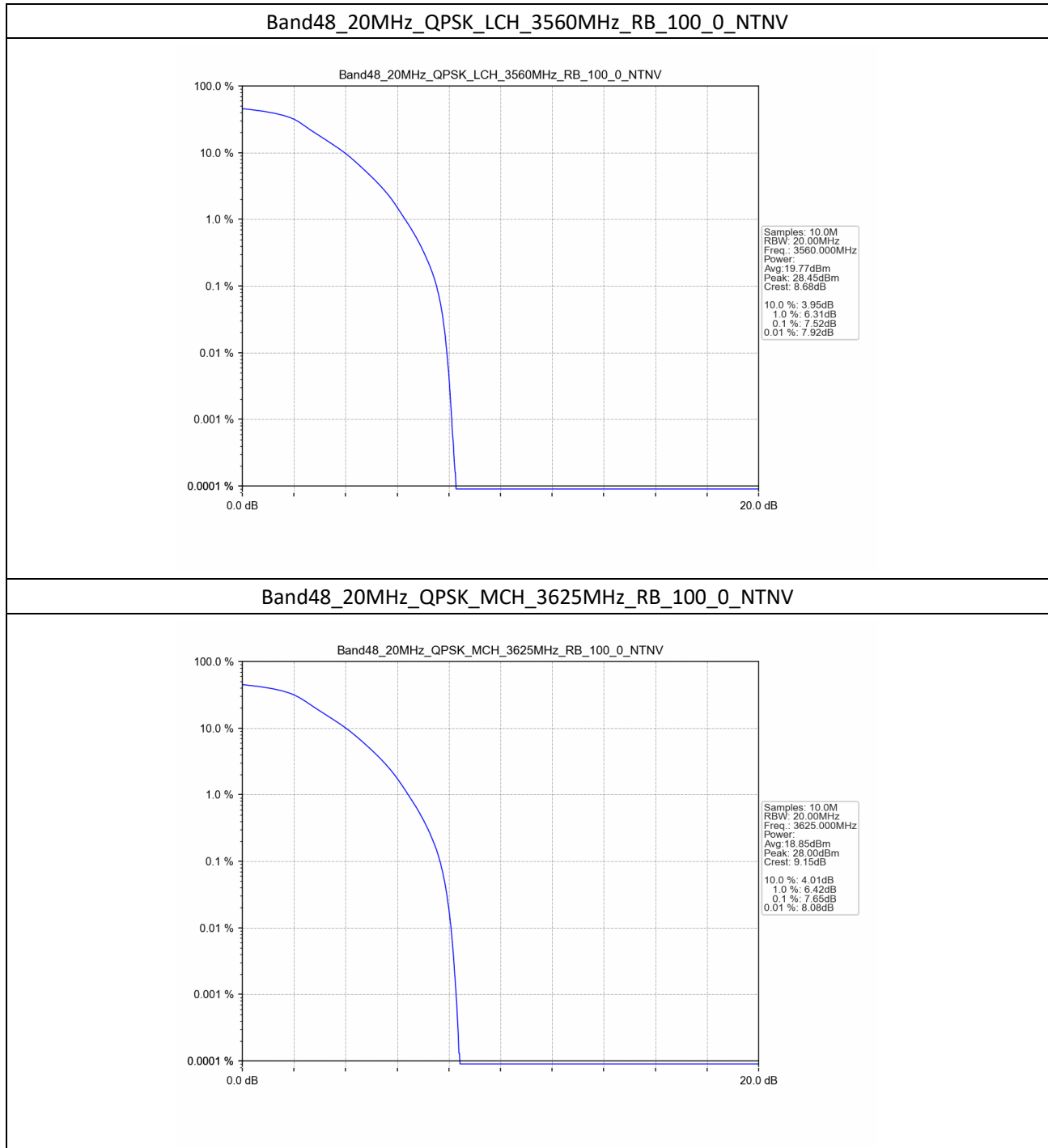
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### 4.2 Test Graph

#### 4.2.1 B48\_20MHz

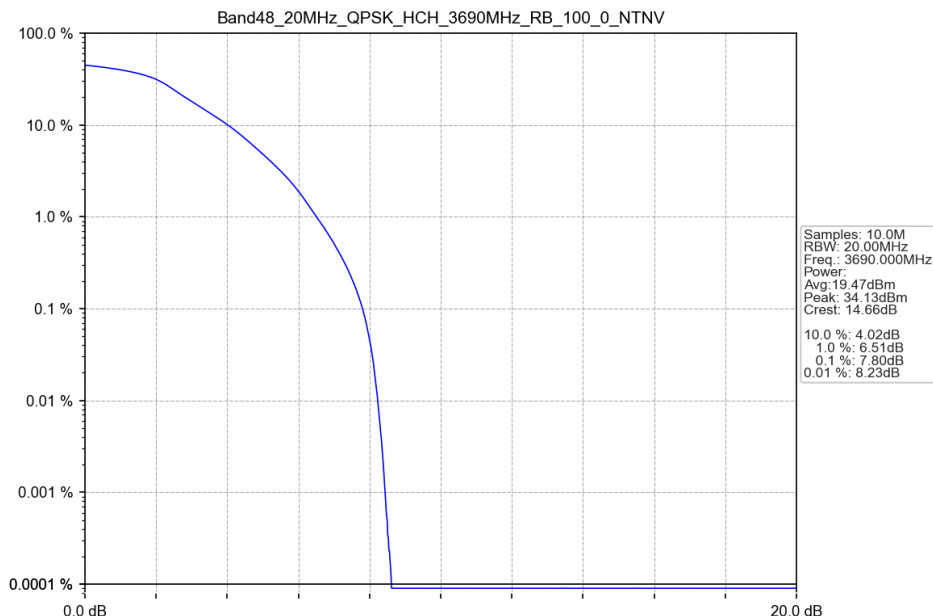


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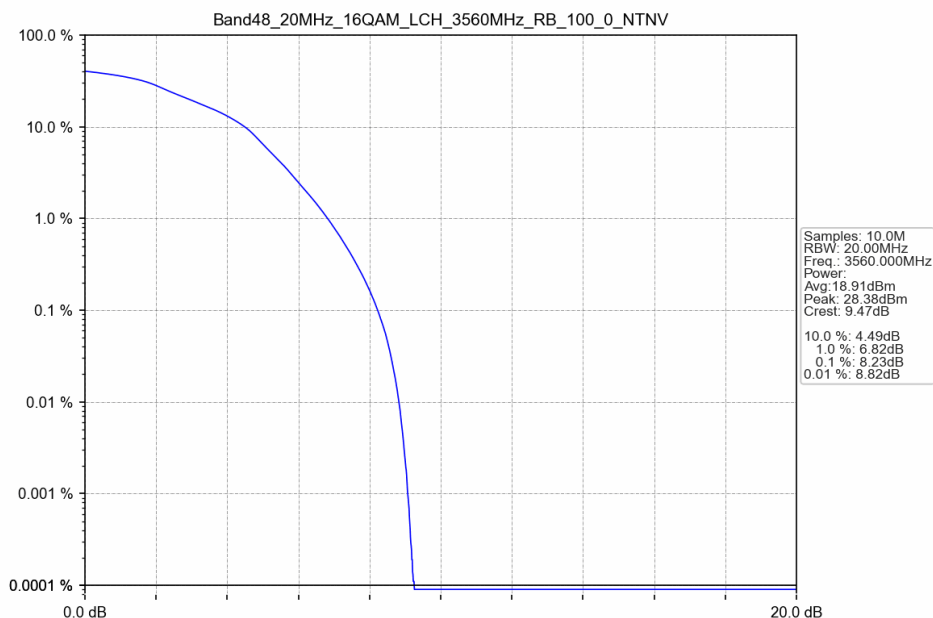
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Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV

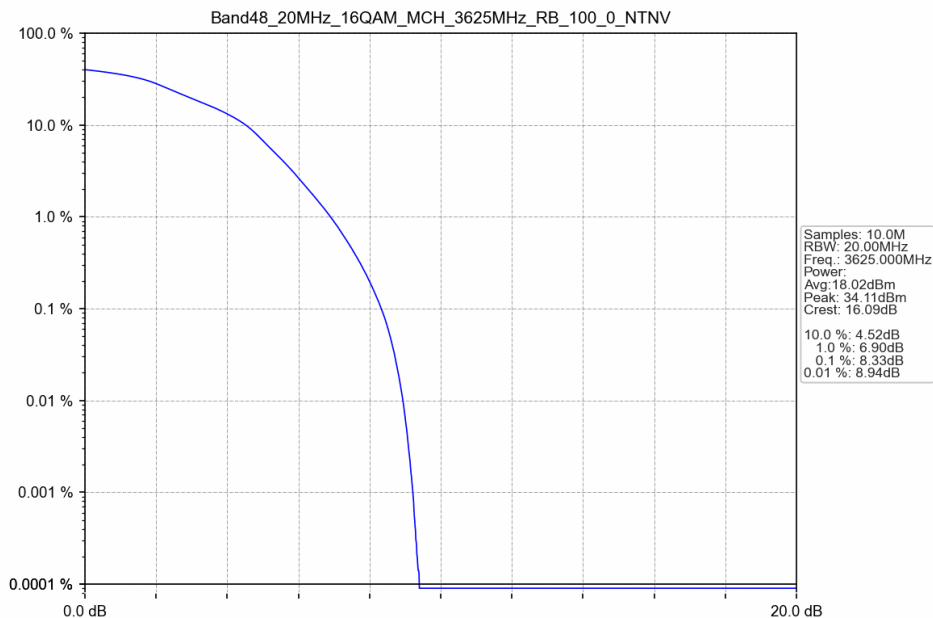


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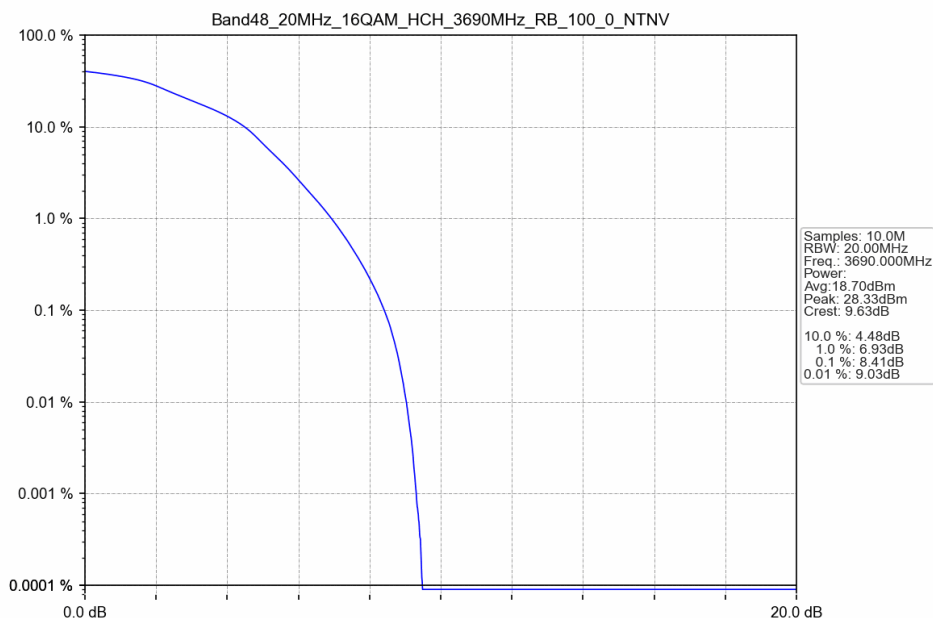
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Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



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### 5. Spurious Emission

#### 5.1 Test Result

##### 5.1.1 B48\_5MHz

Band: 48 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3552.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
	3697.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

##### 5.1.2 B48\_10MHz

Band: 48 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3555	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
	3695	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

##### 5.1.3 B48\_15MHz

Band: 48 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3557.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
	3692.5	1	0	Refer To Test Graph		Pass



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		74	Refer To Test Graph	Pass
	75	0	Refer To Test Graph	Pass

### 5.1.4 B48\_20MHz

Band: 48 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3560	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
	3690	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



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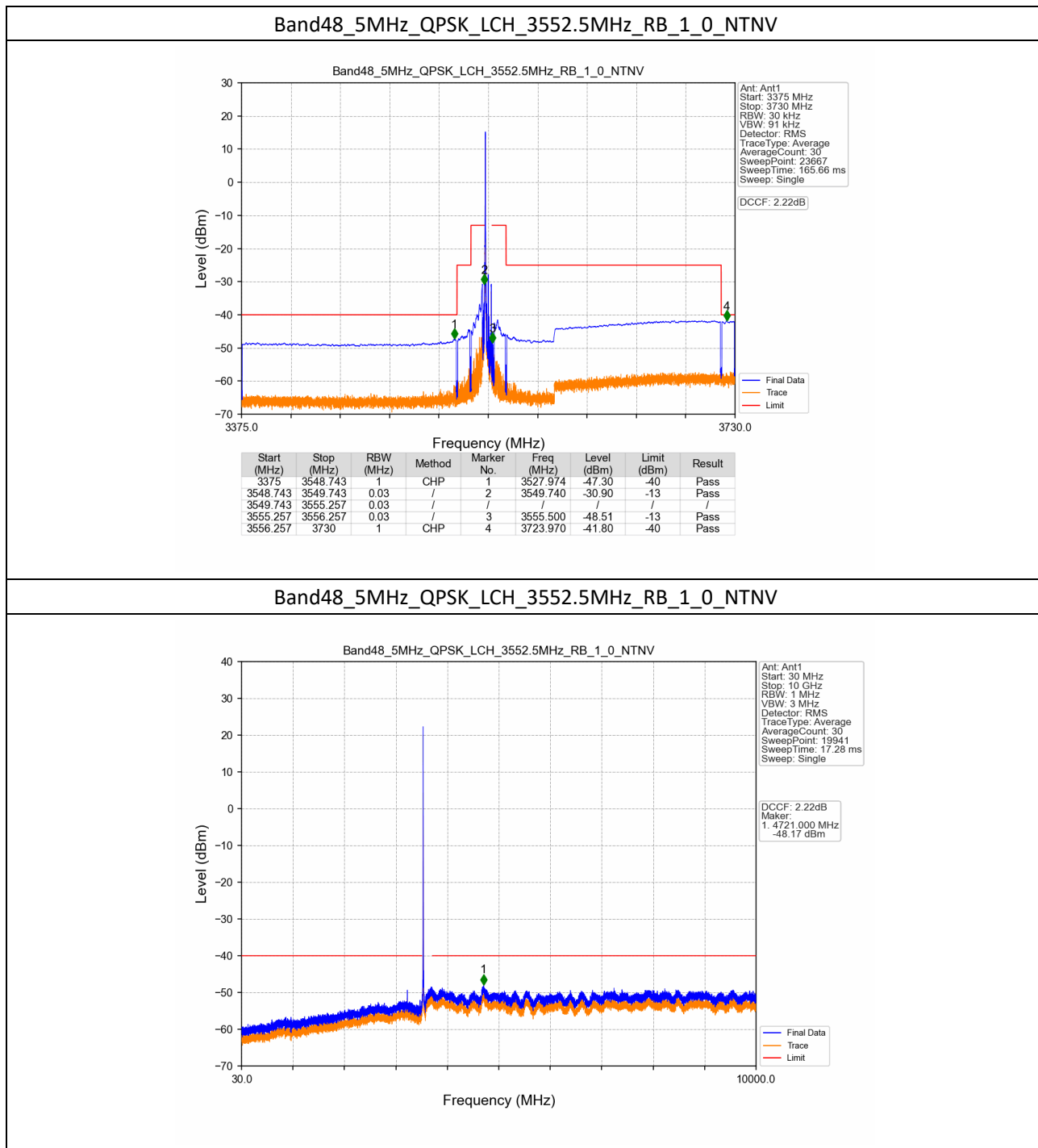
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### 5.2 Test Graph

#### 5.2.1 B48\_5MHz

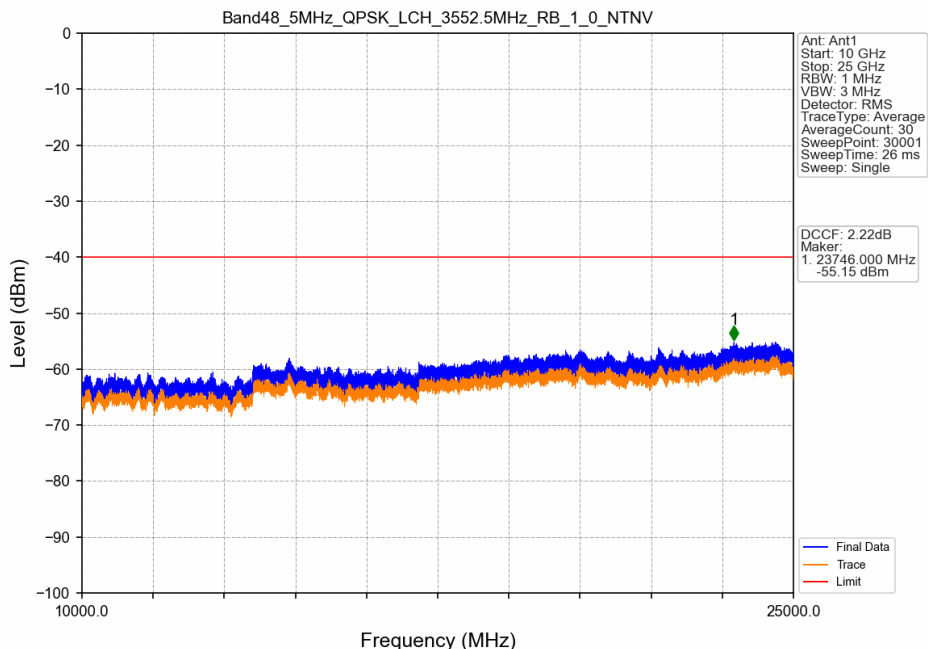


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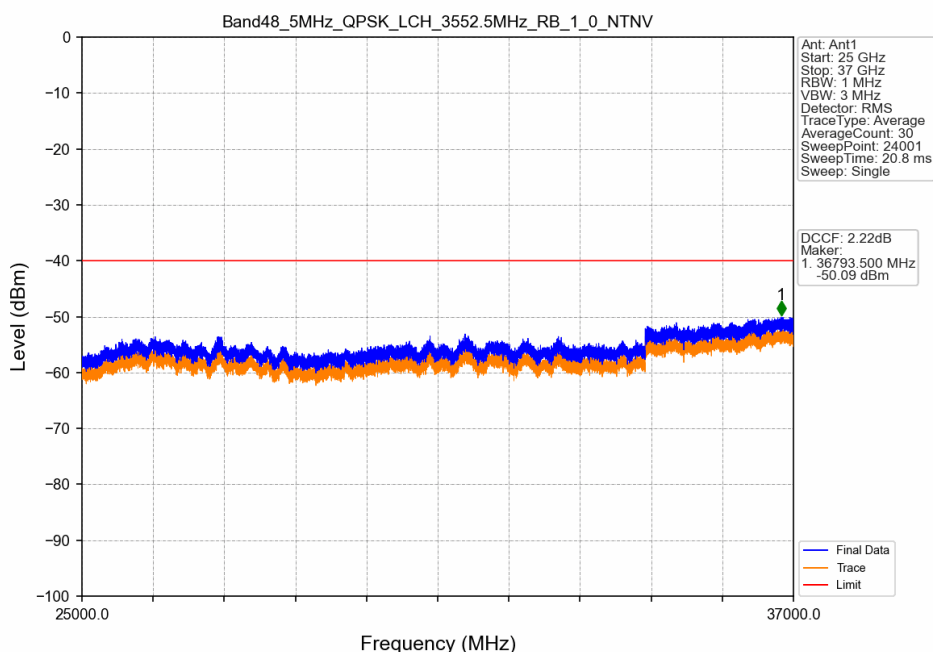
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Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_1\_0\_NTNV



Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_1\_0\_NTNV

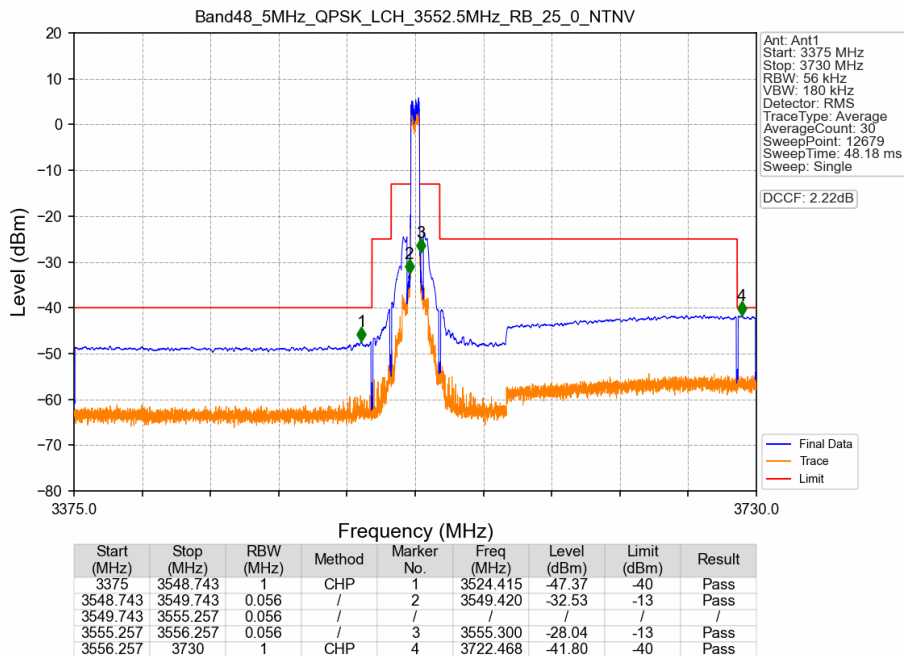


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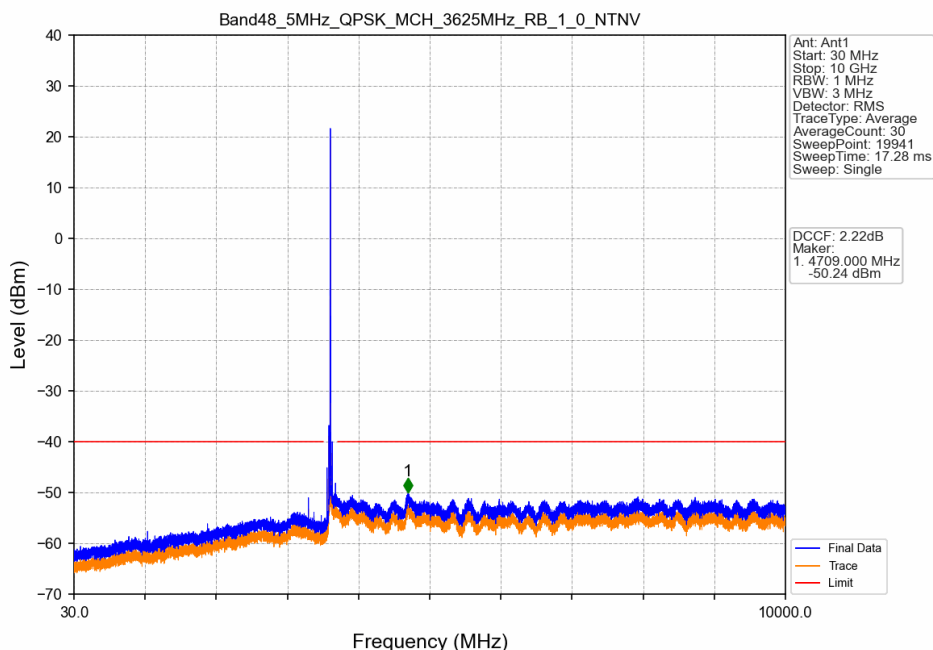
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### Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



### Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

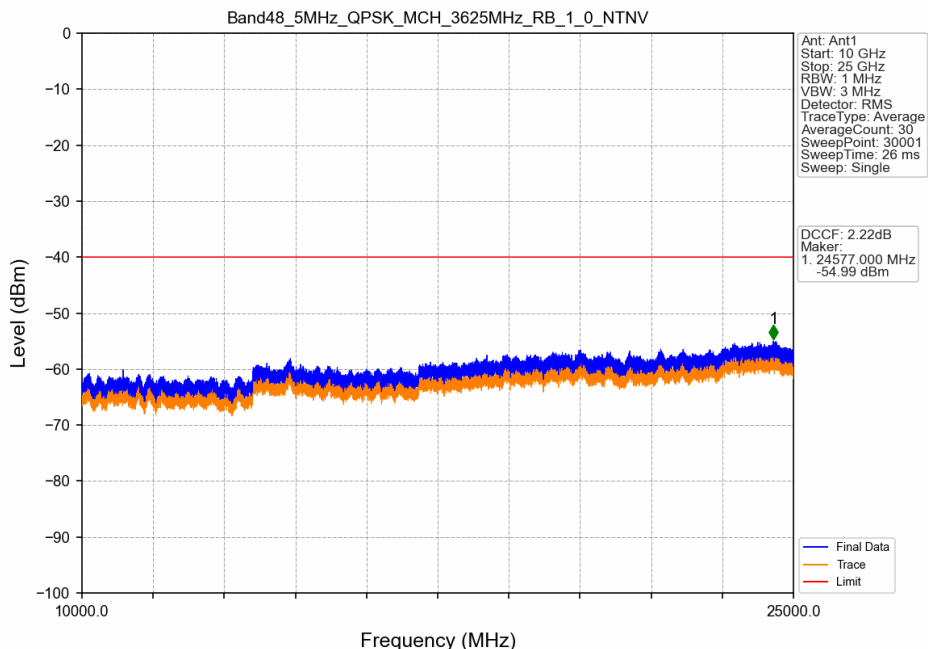


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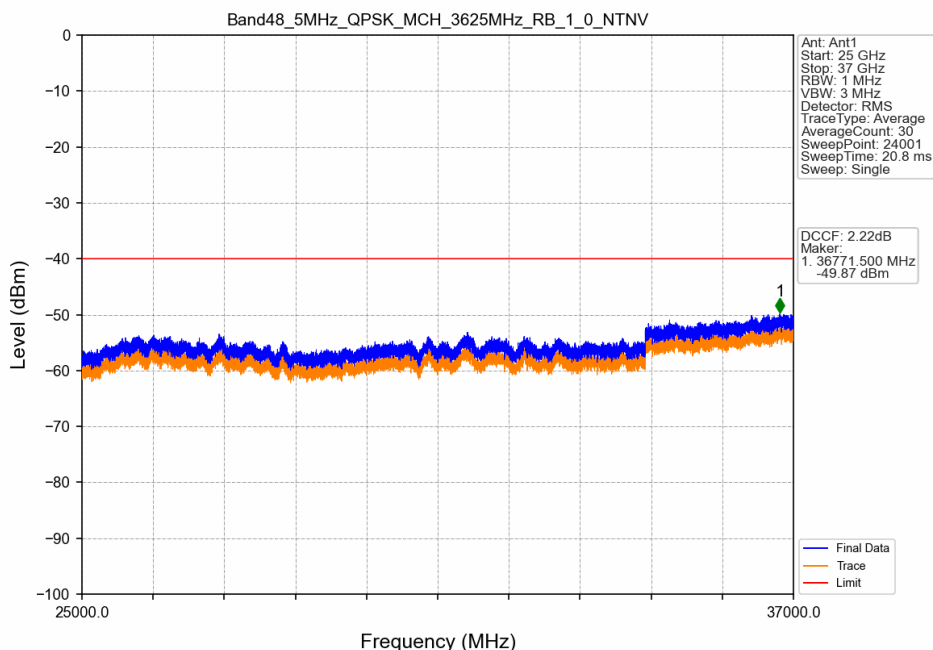
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Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

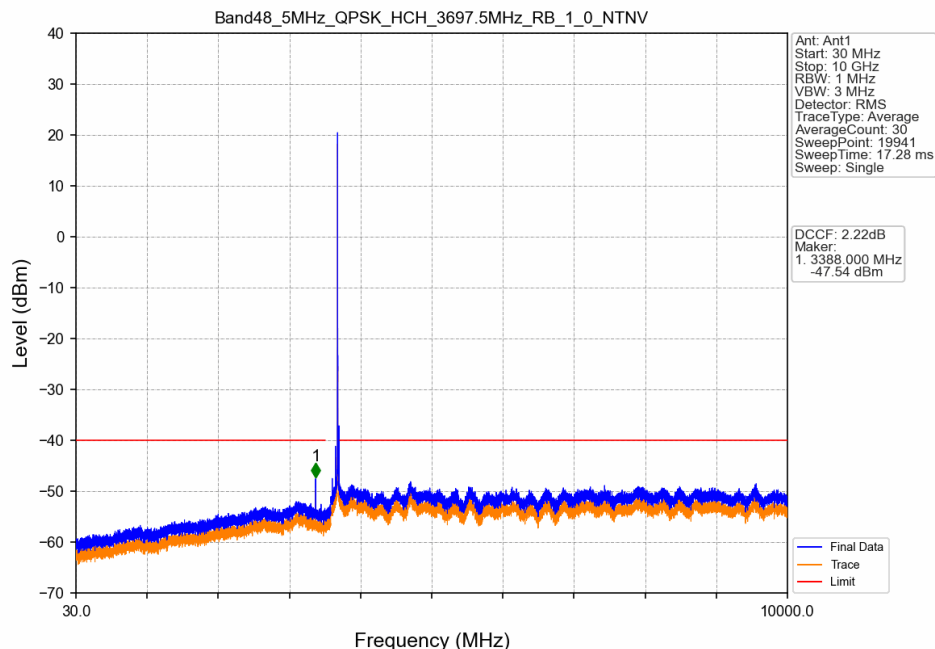


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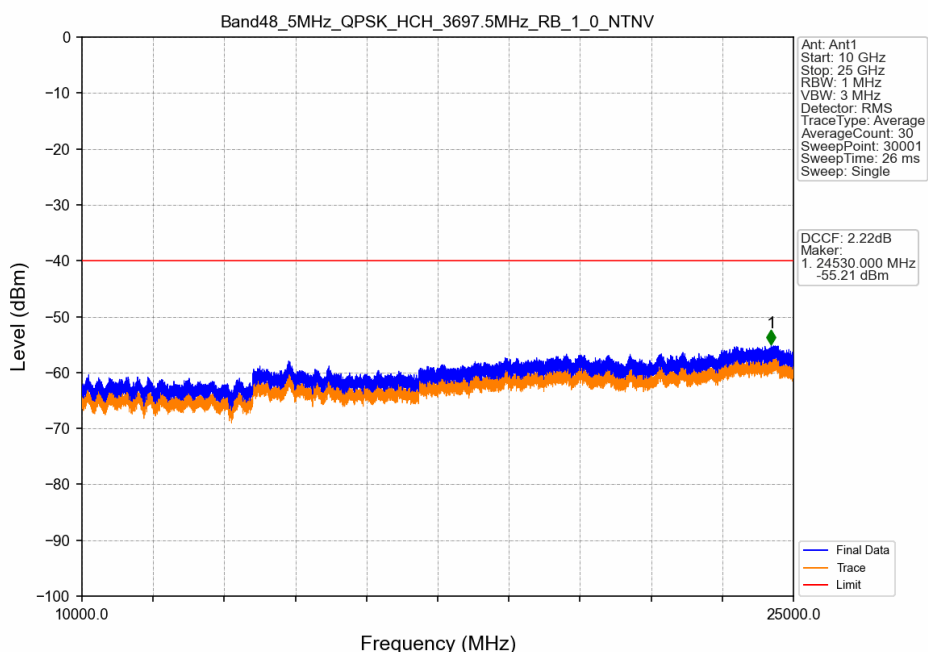
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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_0\_NTNV



Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_0\_NTNV

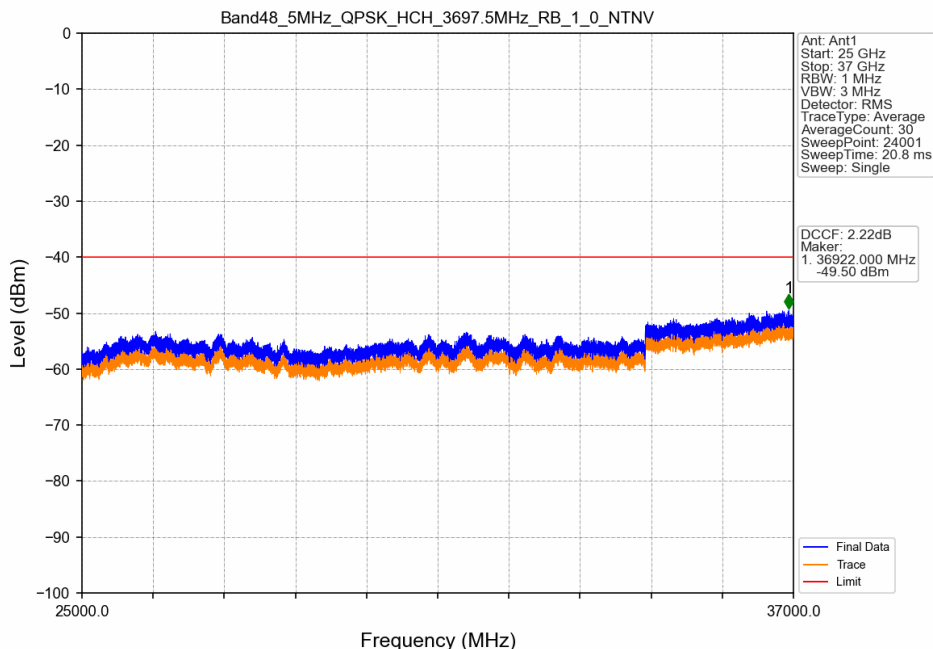


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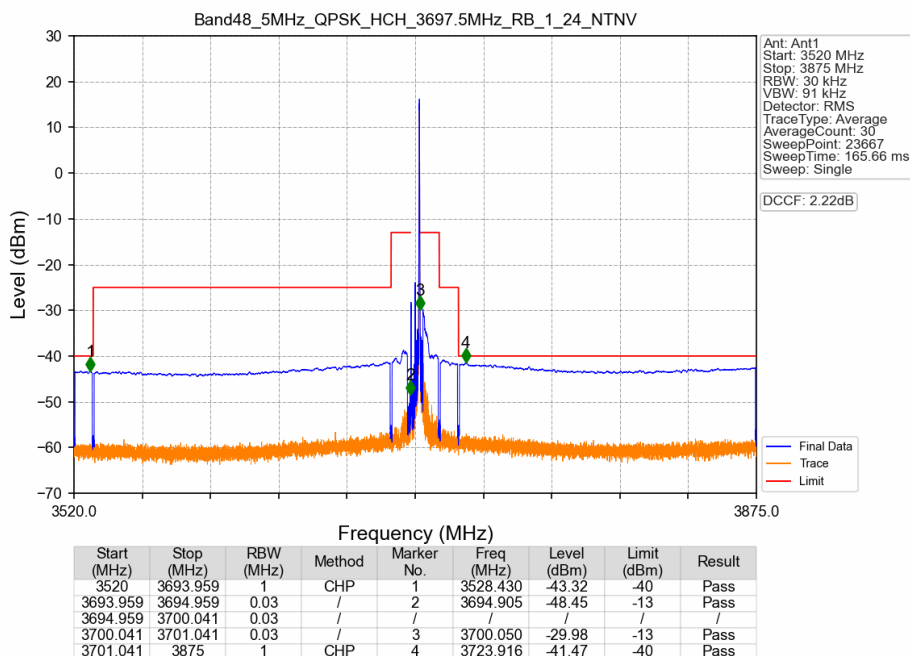
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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_24\_NTNV

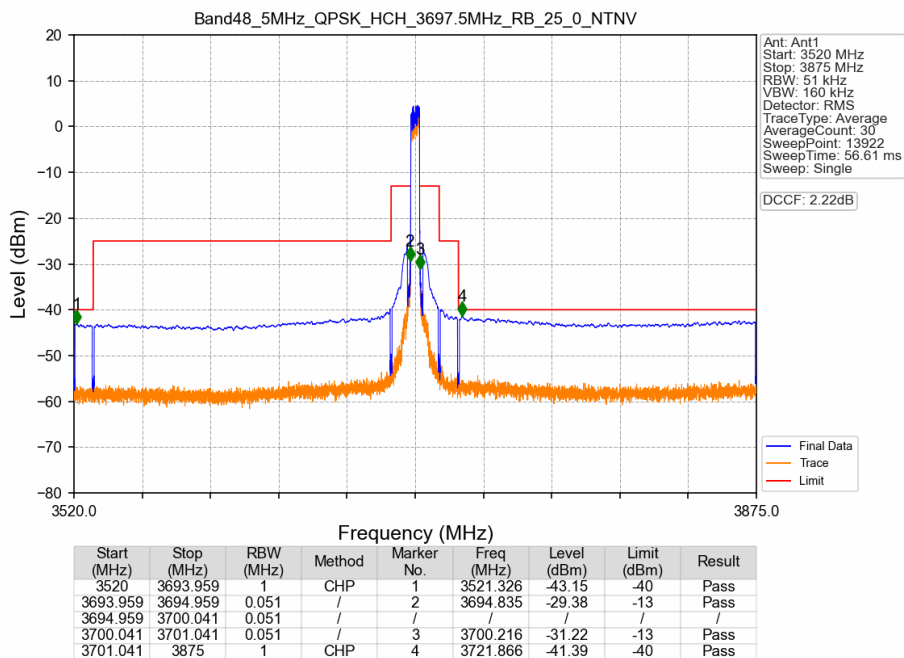


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### Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV

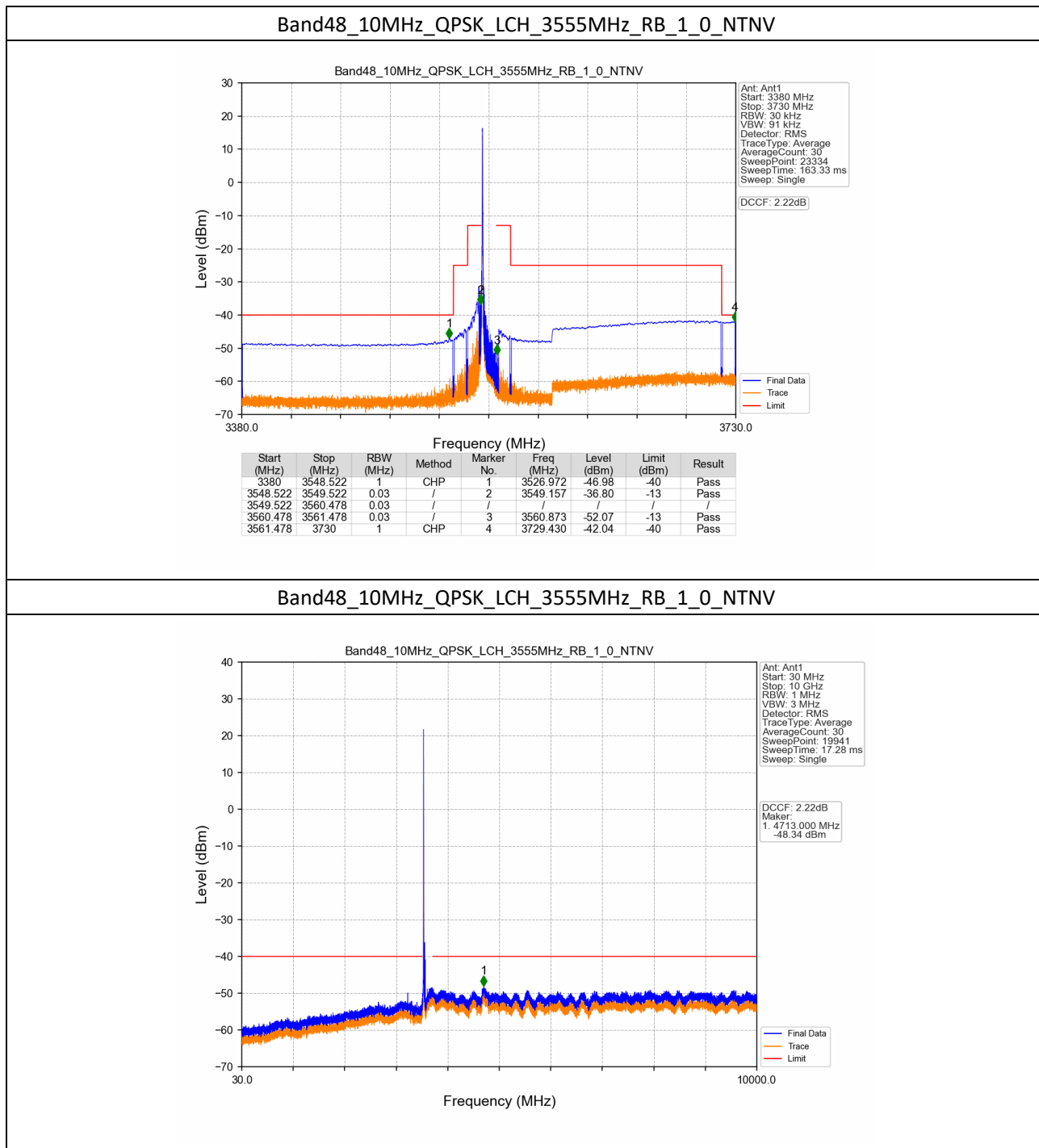


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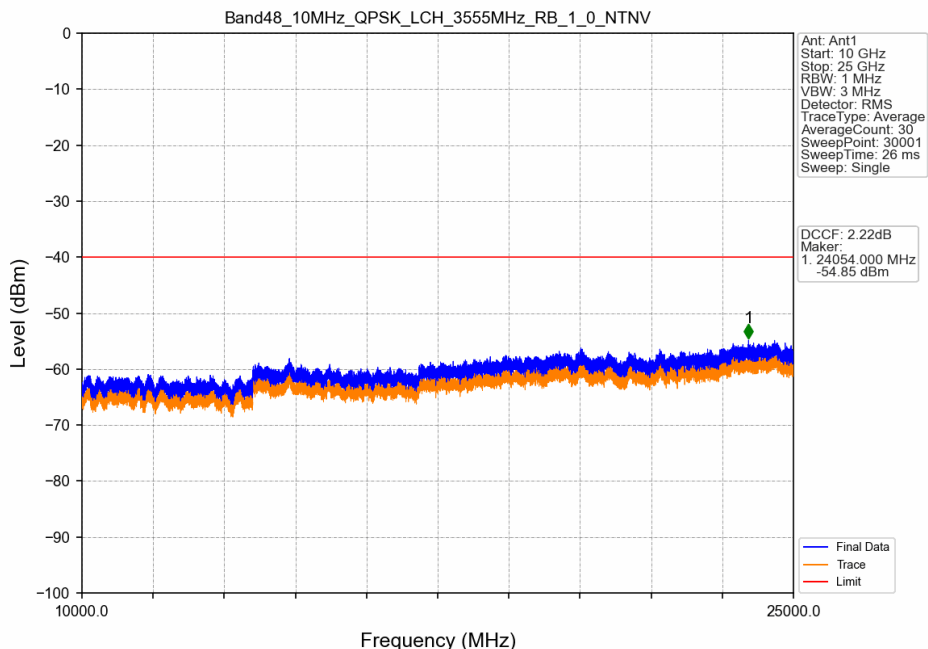
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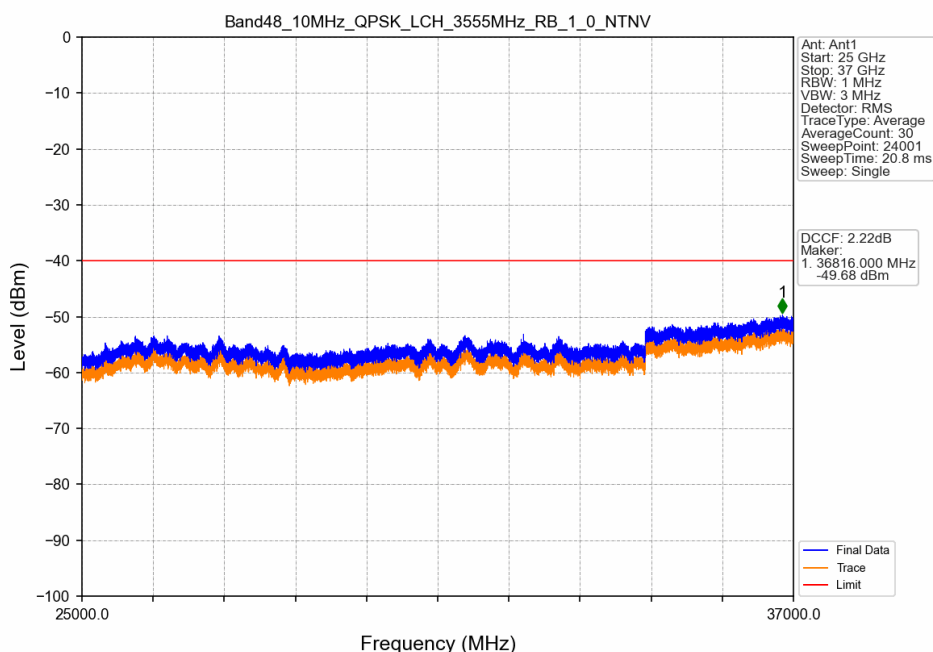
### 5.2.2 B48\_10MHz



Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_1\_0\_NTNV



Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_1\_0\_NTNV

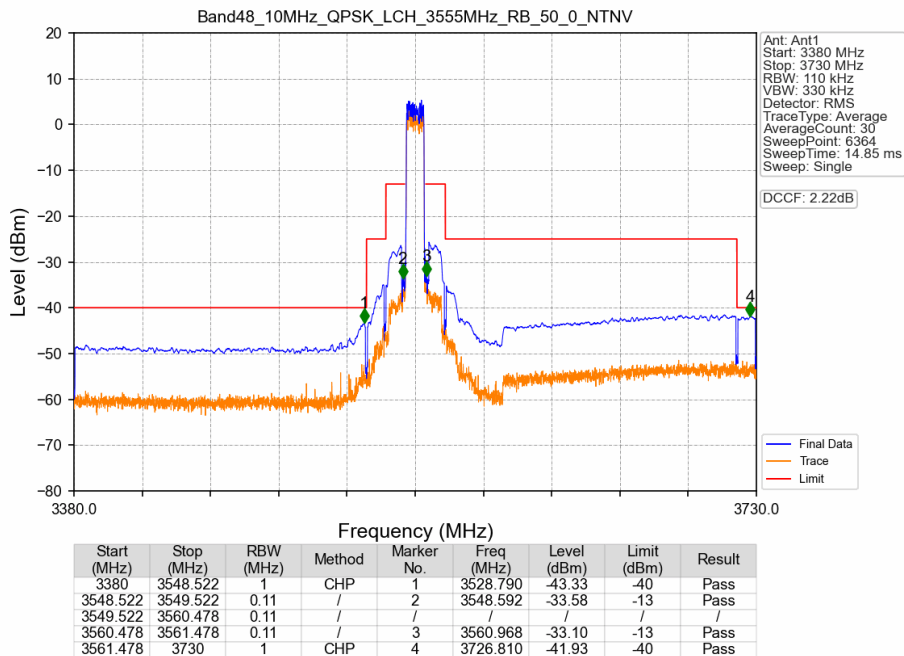


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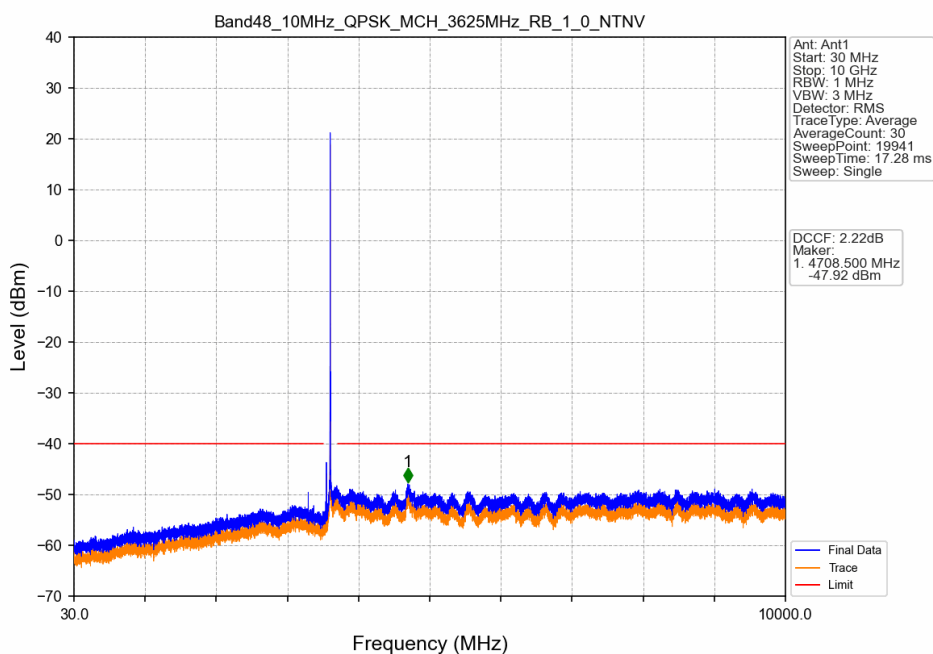
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### Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



### Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

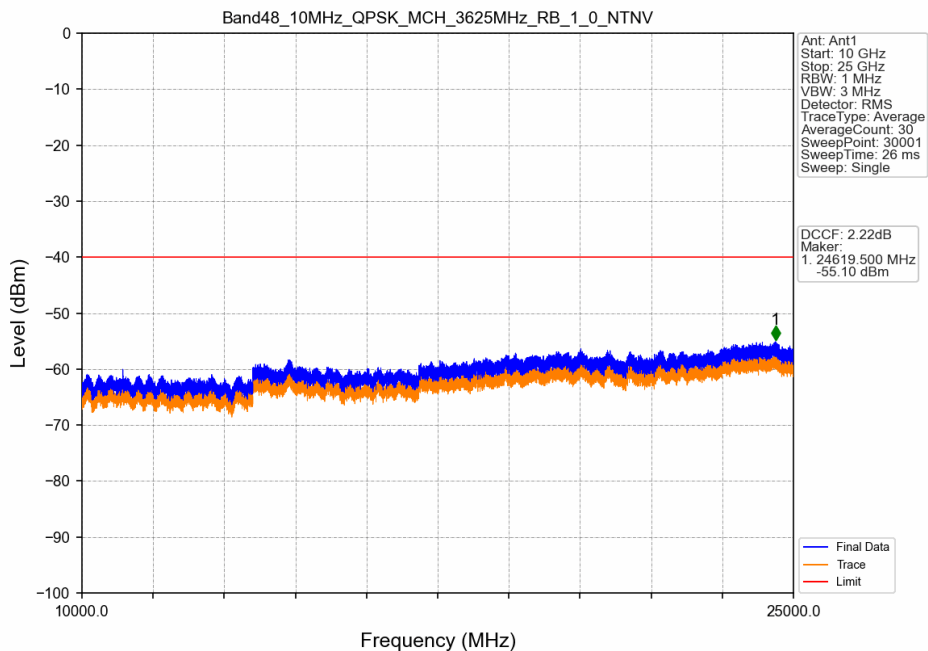


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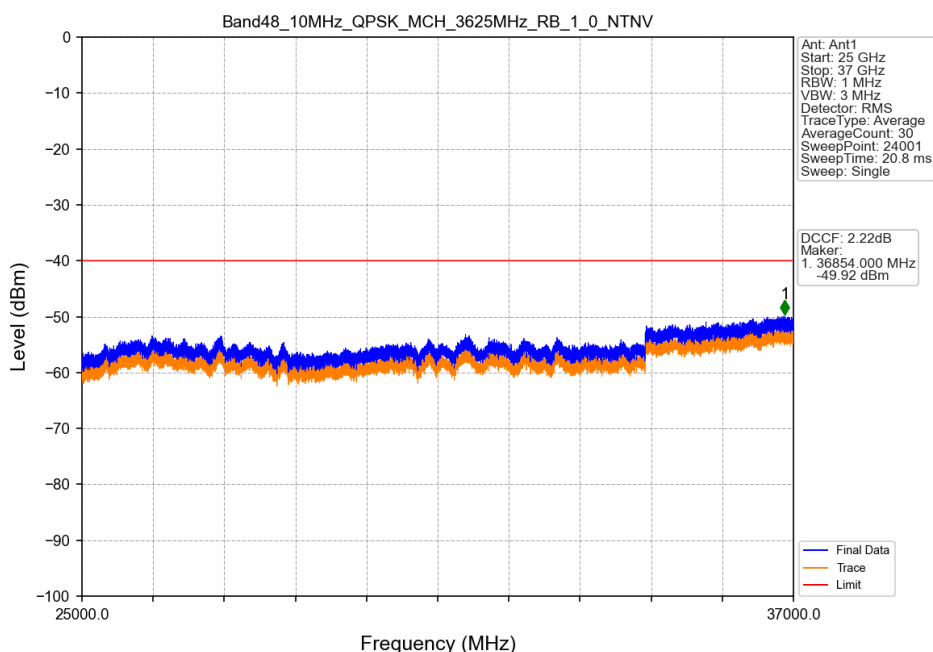
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Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

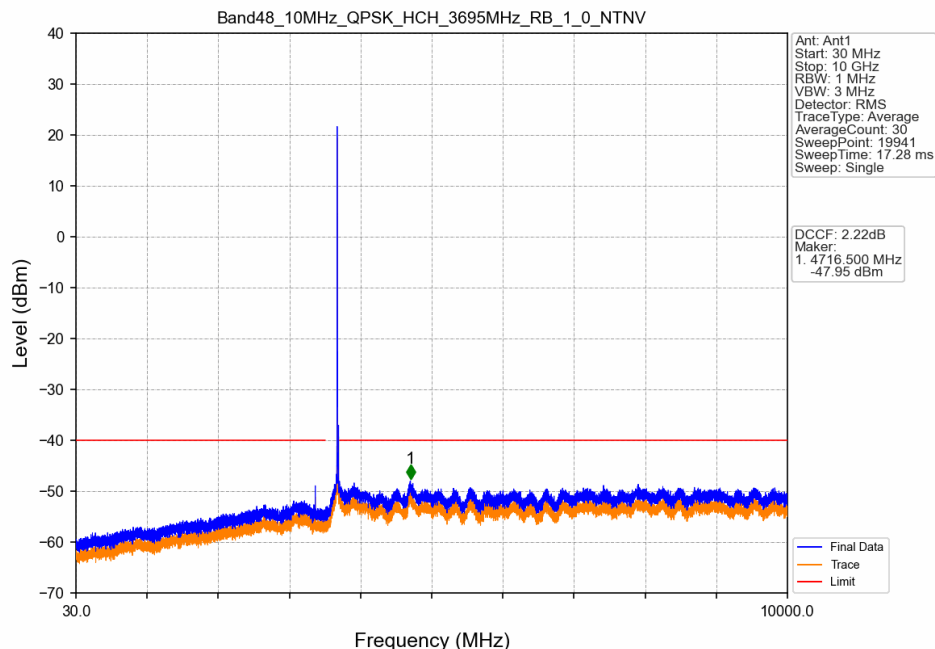


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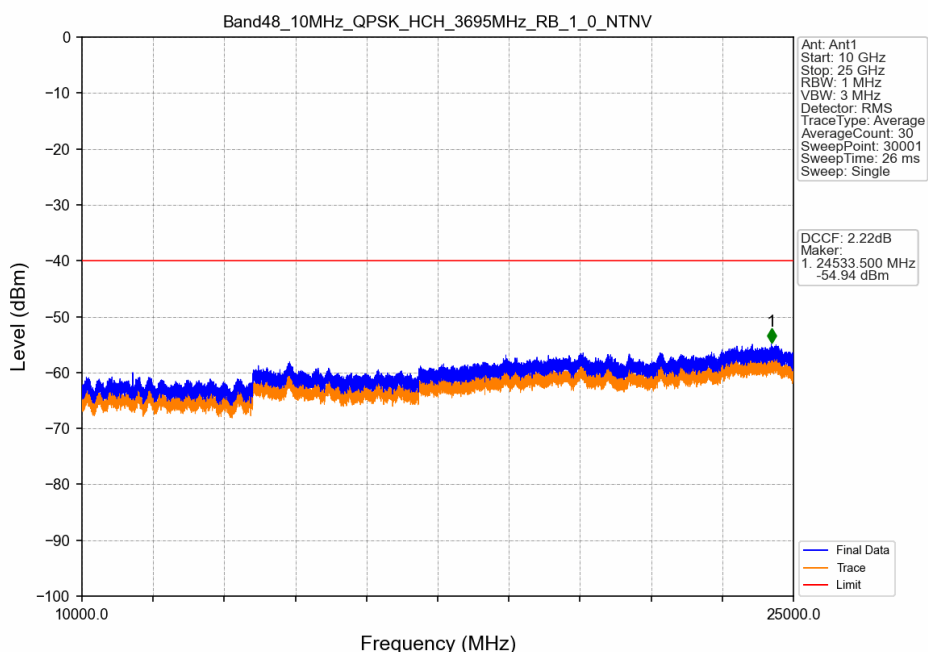
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Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_1\_0\_NTNV



Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_1\_0\_NTNV

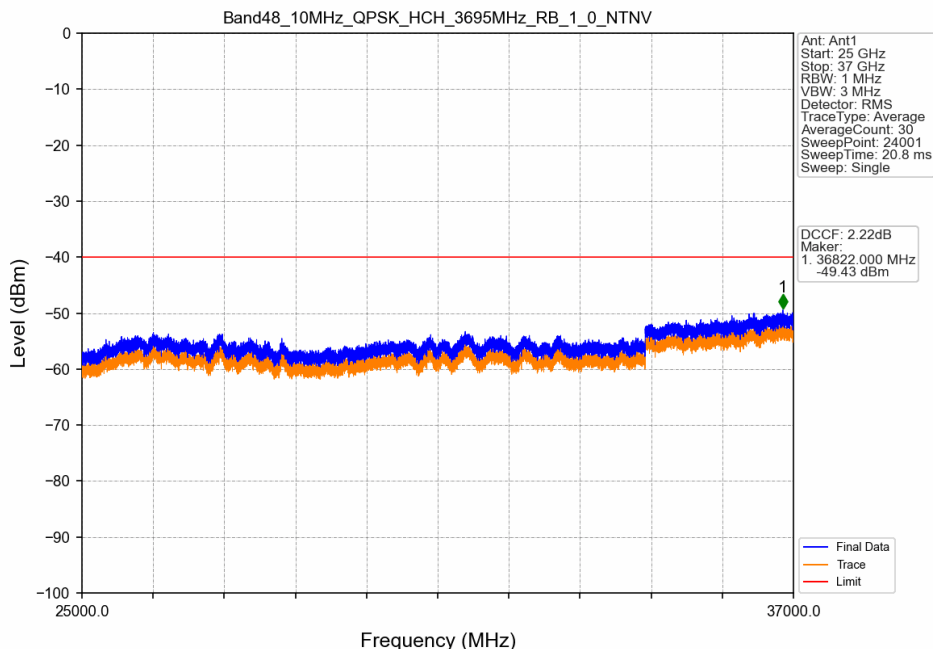


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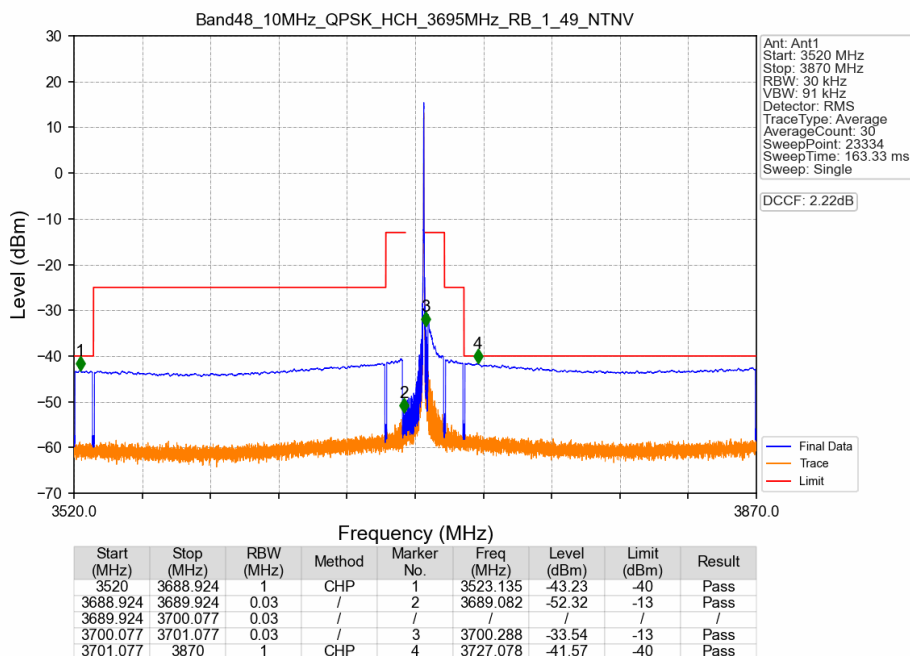
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### Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_1\_0\_NTNV



### Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_1\_49\_NTNV



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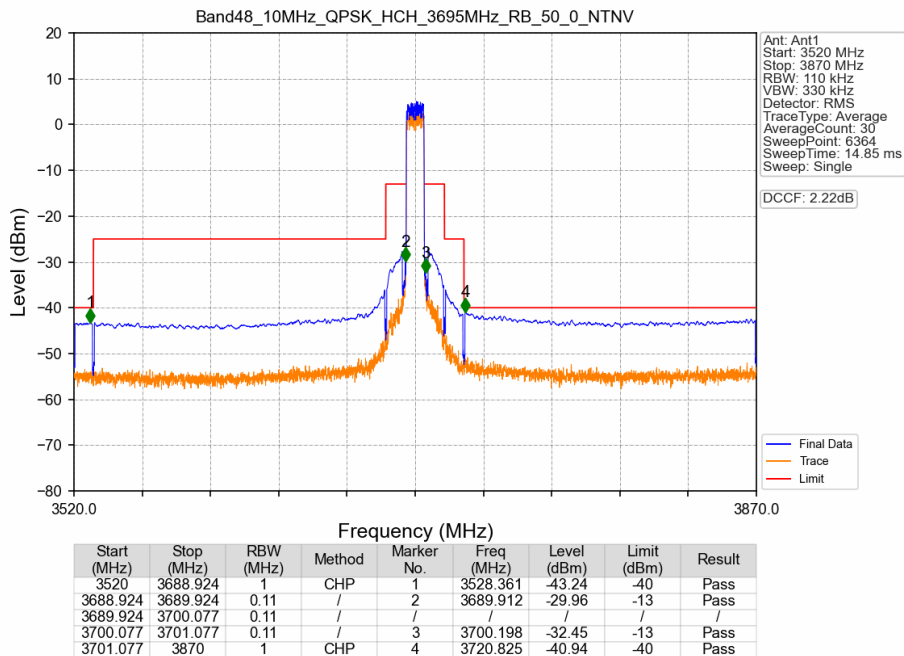
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### Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



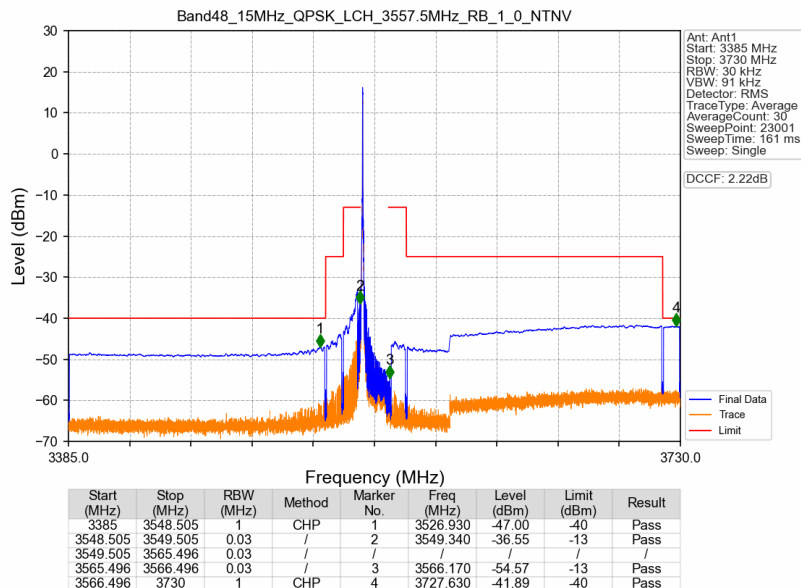
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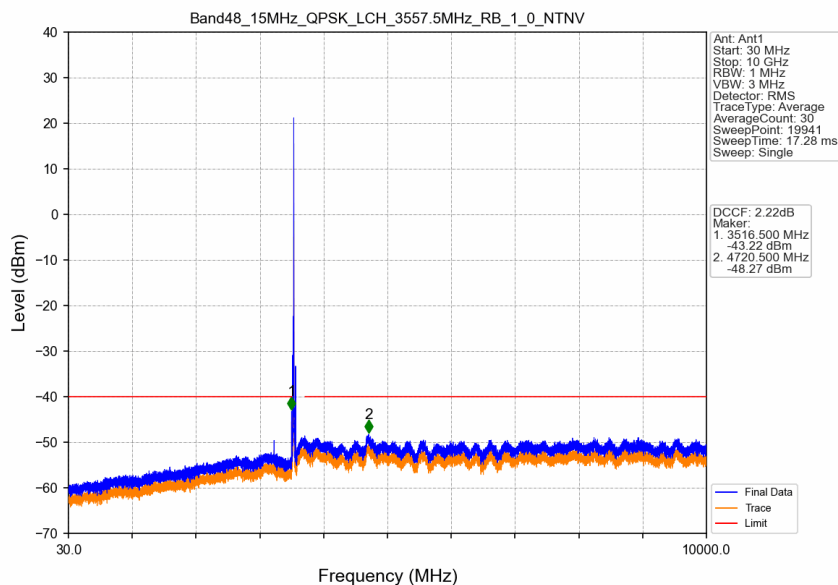
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### 5.2.3 B48\_15MHz

Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_1\_0\_NTNV



Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_1\_0\_NTNV

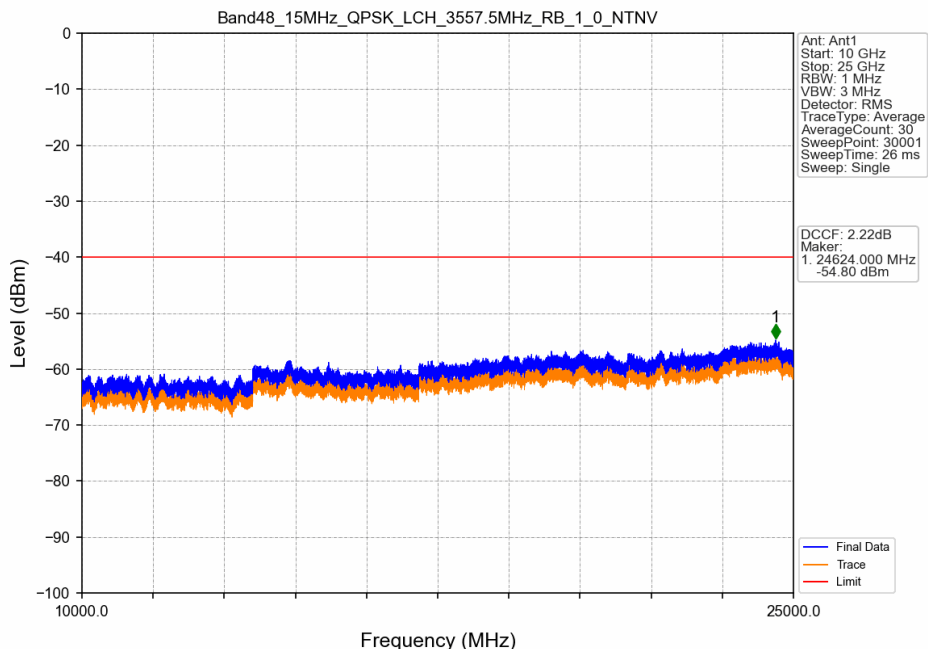


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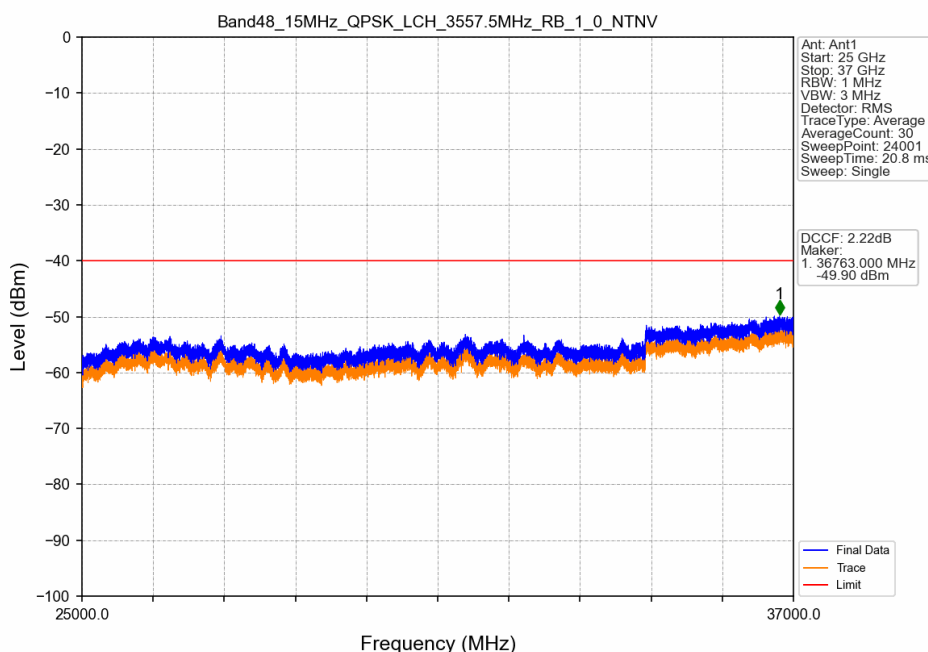
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Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_1\_0\_NTNV



Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_1\_0\_NTNV

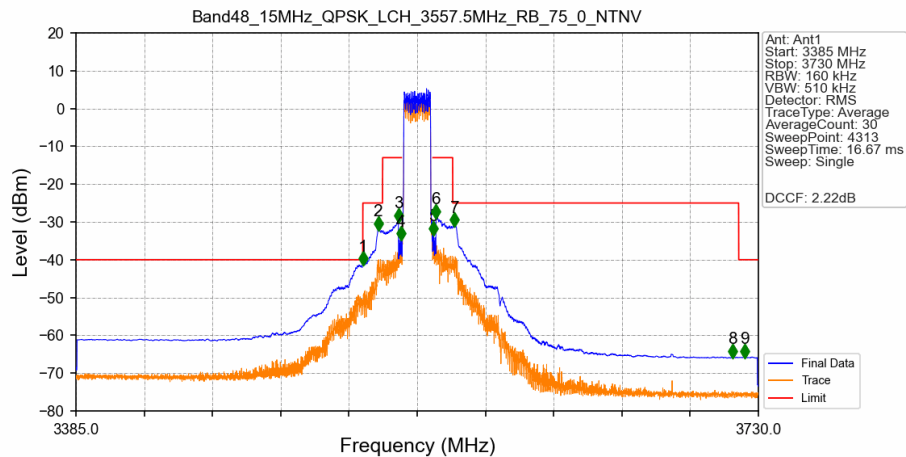


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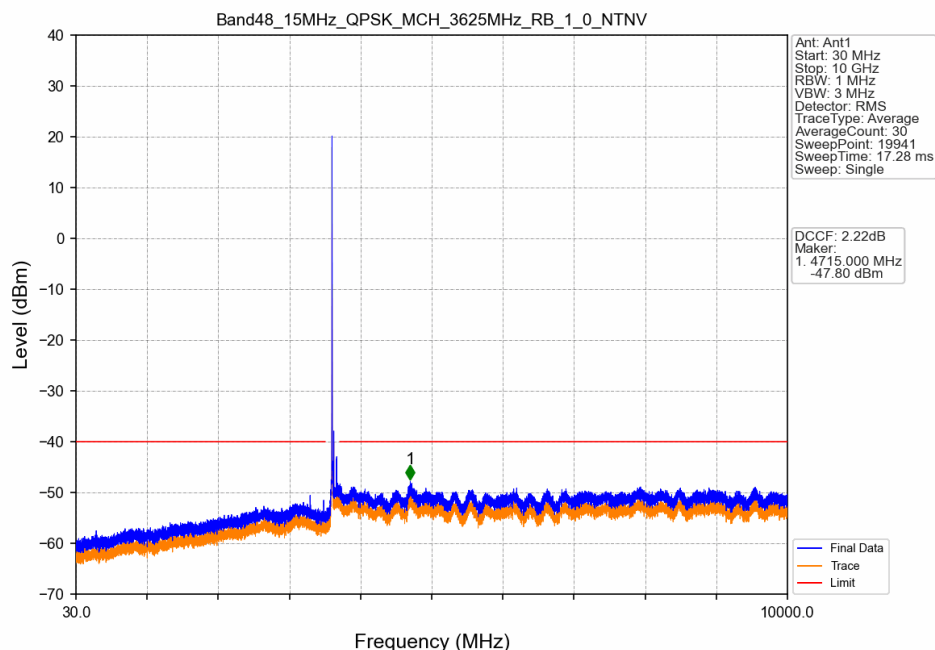
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### Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3385	3530	1	CHP	1	3529.977	-41.19	-40	Pass
3530	3540	1	CHP	2	3537.738	-31.92	-25	Pass
3540	3549.505	1	CHP	3	3547.979	-29.82	-13	Pass
3549.505	3549.505	0.16	/	4	3549.259	-34.56	-13	Pass
3549.505	3565.496	0.16	/	/	/	/	/	/
3565.496	3566.496	0.16	/	5	3565.661	-33.22	-13	Pass
3566.496	3575.496	1	CHP	6	3567.021	-28.72	-13	Pass
3575.496	3720	1	CHP	7	3576.462	-30.92	-25	Pass
3720	3720	1	CHP	8	3717.038	-65.72	-25	Pass
3720	3730	1	CHP	9	3723.119	-65.69	-40	Pass

### Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

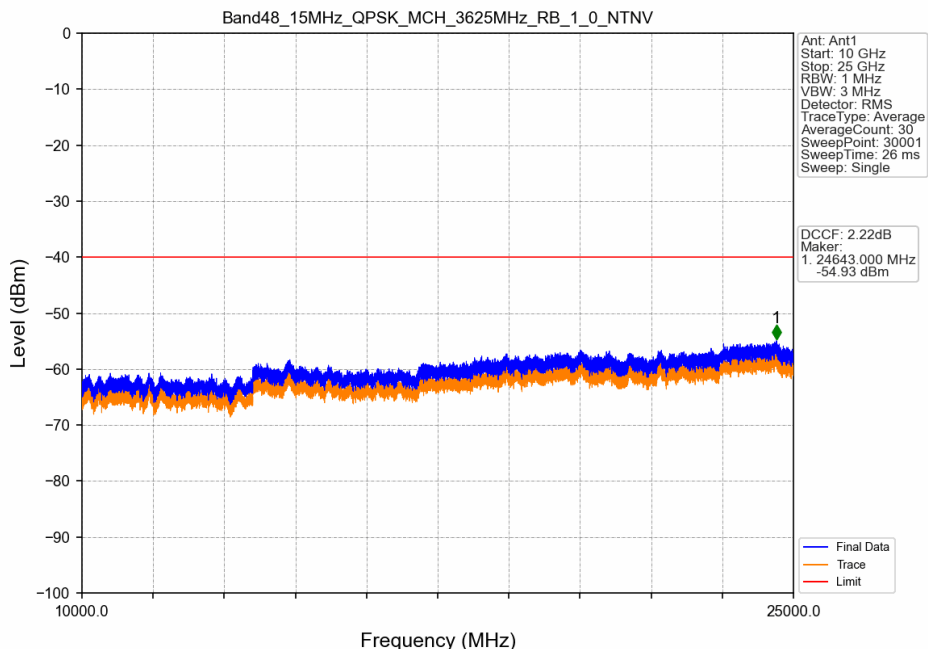


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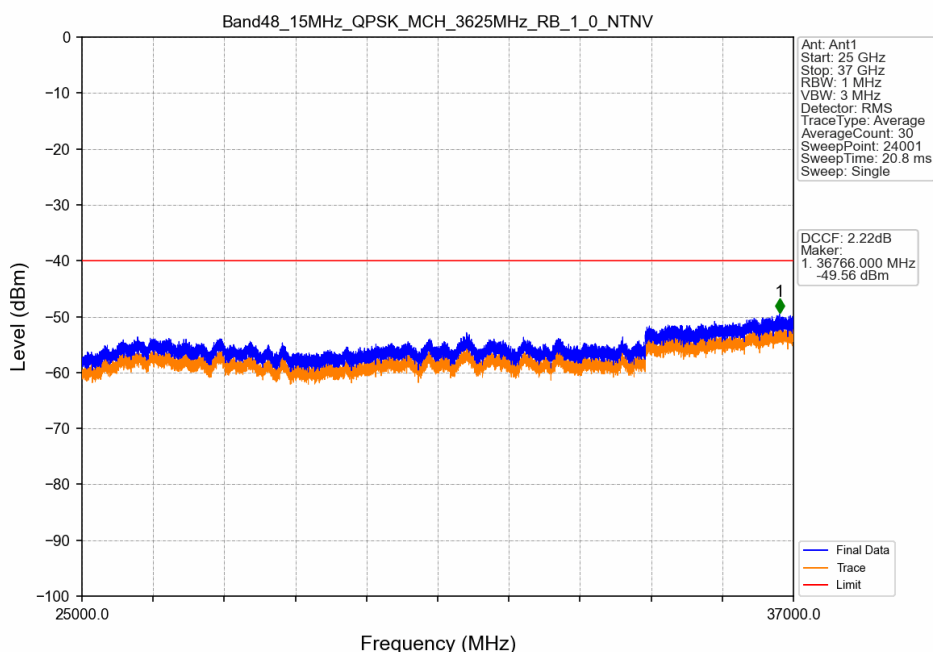
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Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

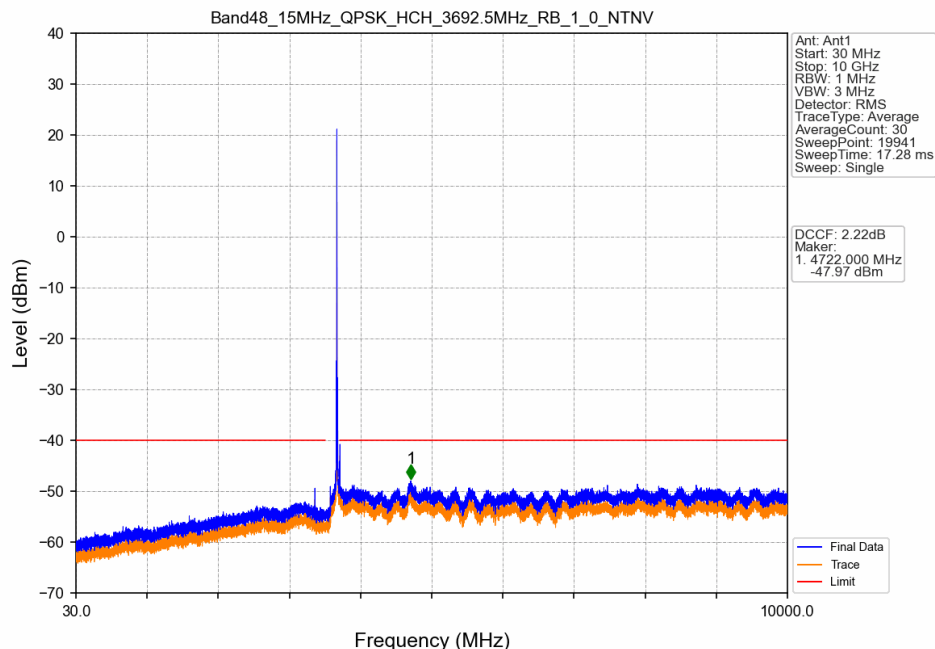


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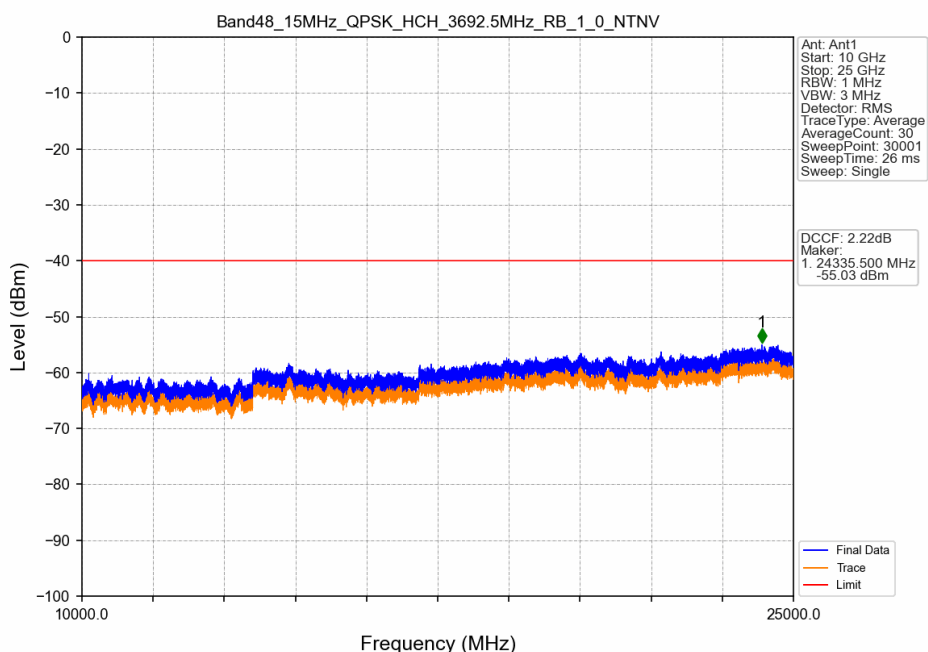
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Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV



Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV

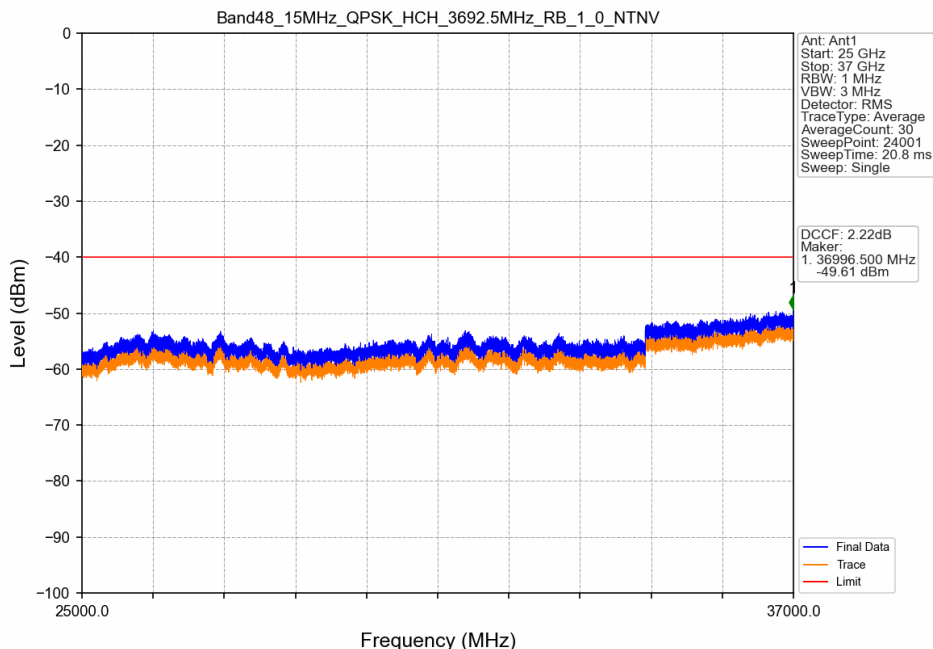


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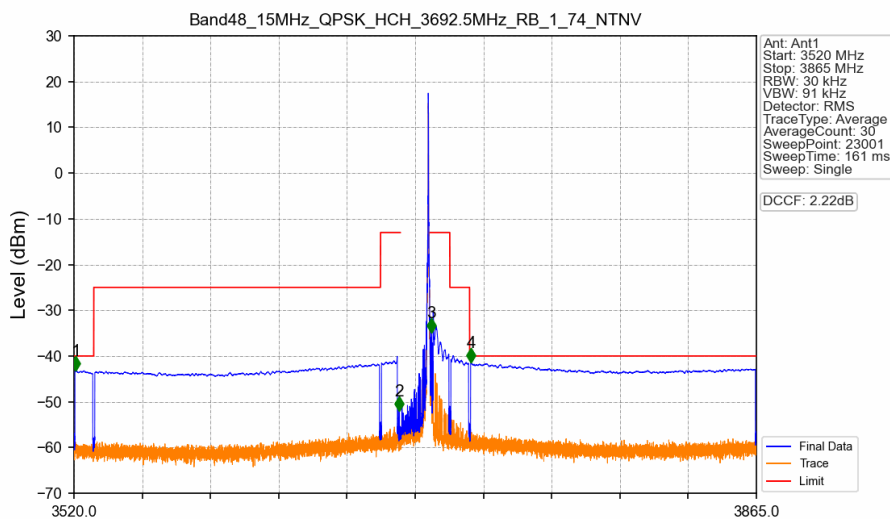
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Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV



Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_74\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3683.959	1	CHP	1	3520.930	-43.24	-40	Pass
3683.959	3684.959	0.03	/	2	3684.475	-52.05	-13	Pass
3684.959	3700.042	0.03	/	3	3700.735	-34.85	-13	Pass
3700.042	3701.042	0.03	/	4	3720.730	-41.48	-40	Pass



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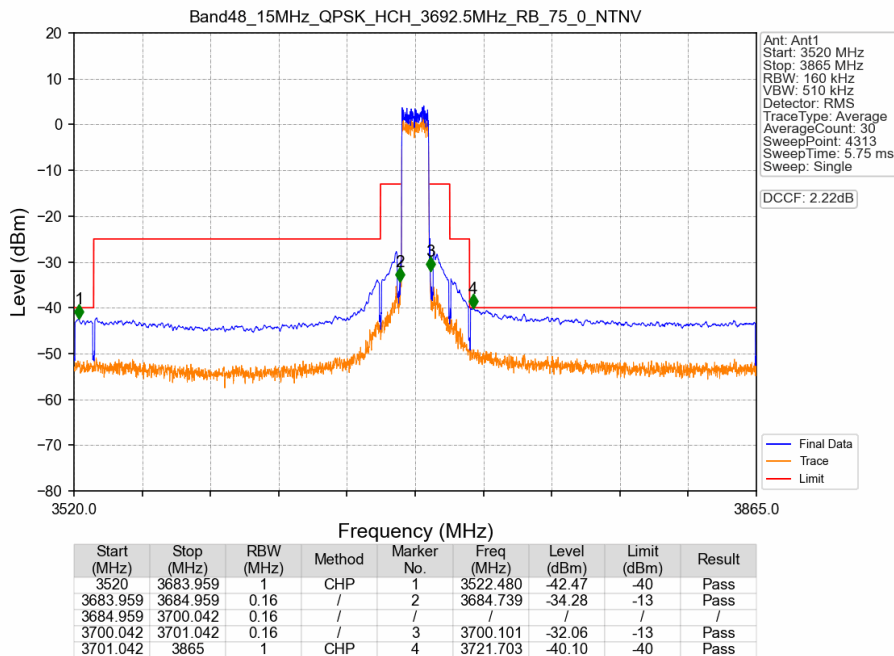
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### Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV

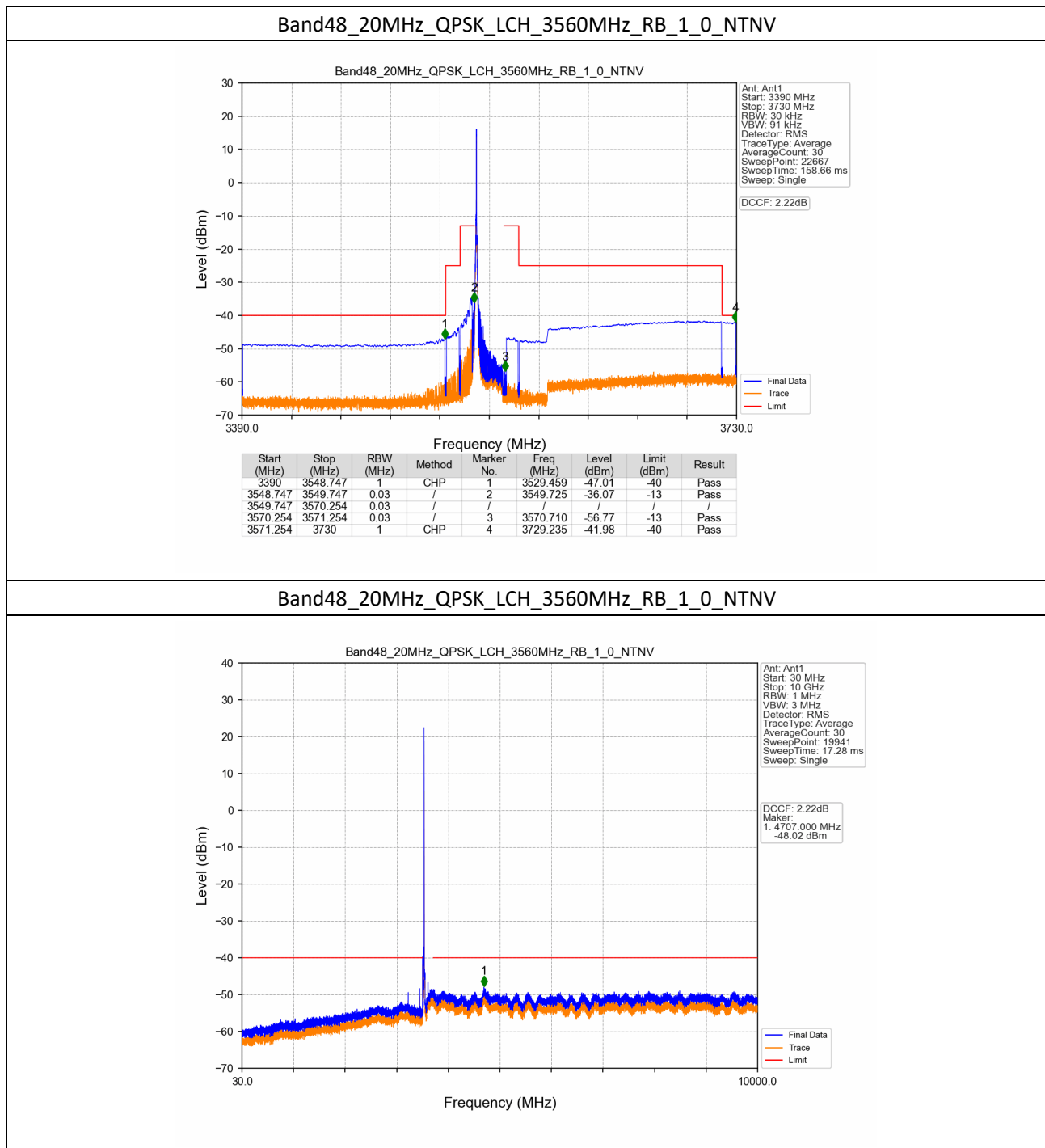


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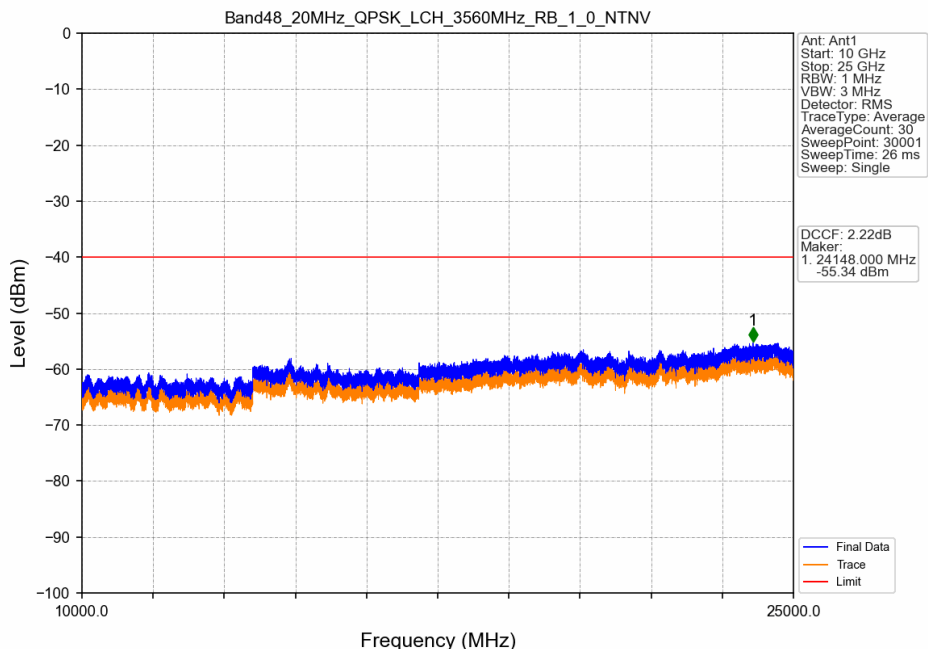
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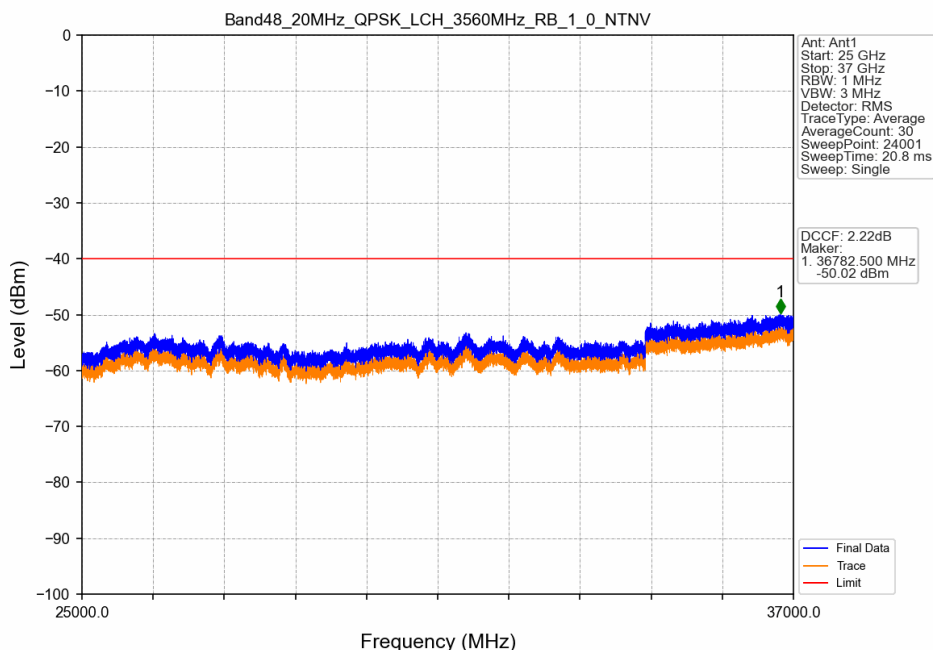
### 5.2.4 B48\_20MHz



Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_1\_0\_NTNV



Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_1\_0\_NTNV

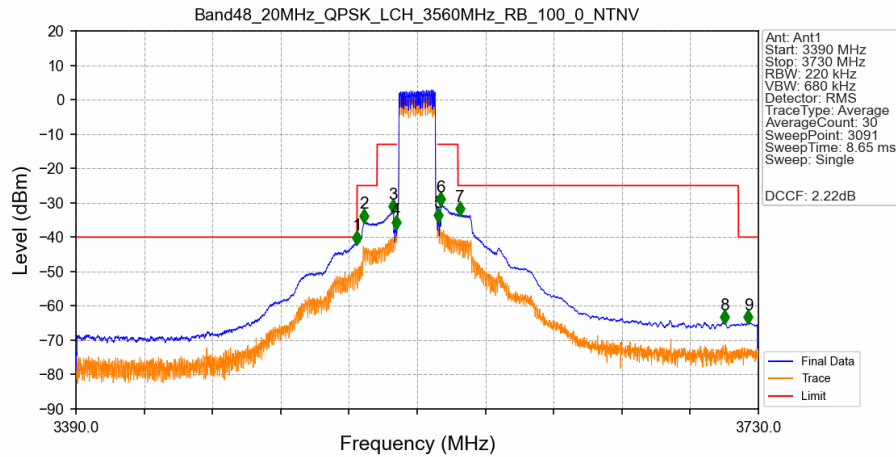


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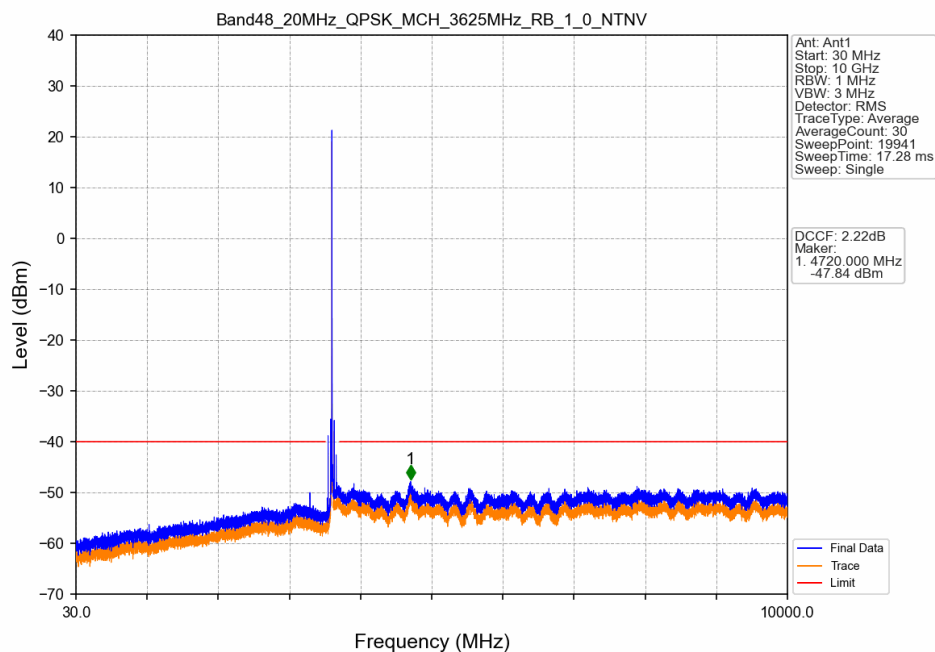
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### Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3390	3530	1	CHP	1	3529.961	-41.81	-40	Pass
3530	3540	1	CHP	2	3533.592	-35.48	-25	Pass
3540	3549.747	1	CHP	3	3548.117	-32.74	-13	Pass
3549.747	3549.747	0.22	/	4	3549.437	-37.33	-13	Pass
3549.747	3570.254	0.22	/	/	/	/	/	/
3570.254	3571.254	0.22	/	5	3570.453	-35.23	-13	Pass
3571.254	3580.254	1	CHP	6	3571.773	-30.60	-13	Pass
3580.254	3720	1	CHP	7	3581.126	-33.41	-25	Pass
3720	3720	1	CHP	8	3713.275	-64.90	-25	Pass
3720	3730	1	CHP	9	3724.939	-64.90	-40	Pass

### Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

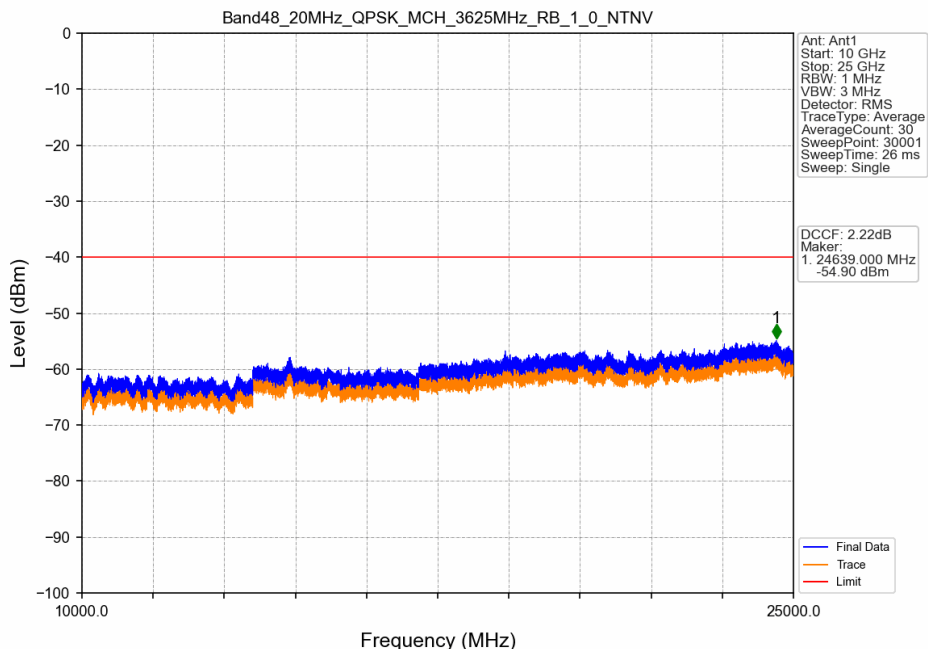


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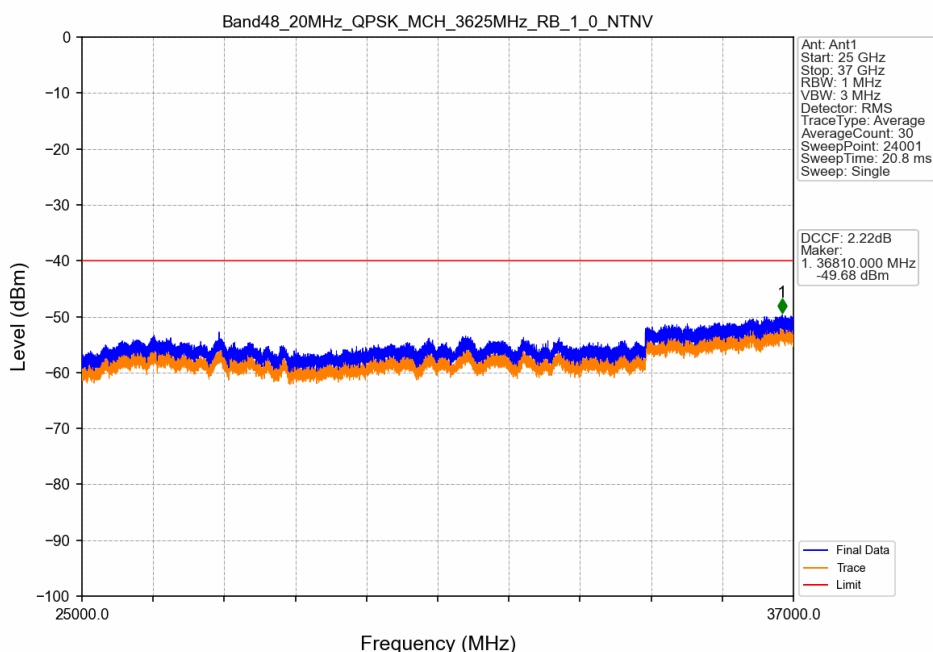
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Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

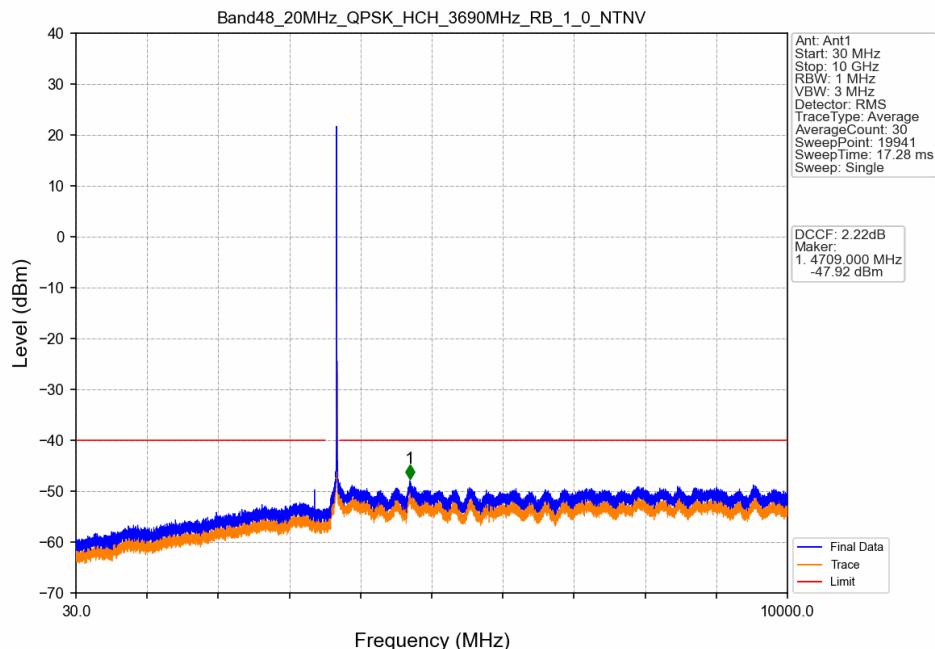


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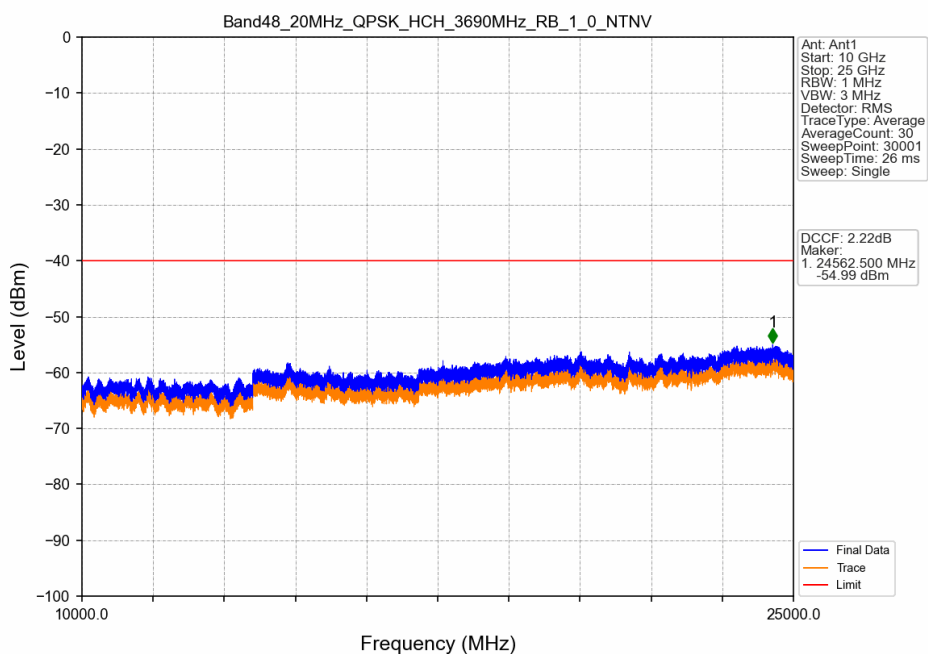
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Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV



Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV

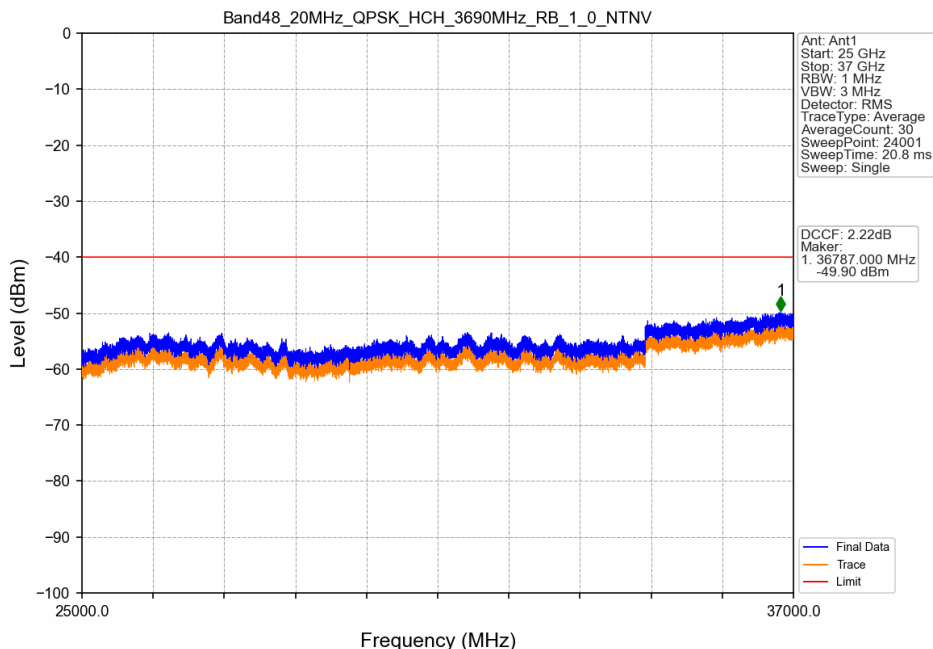


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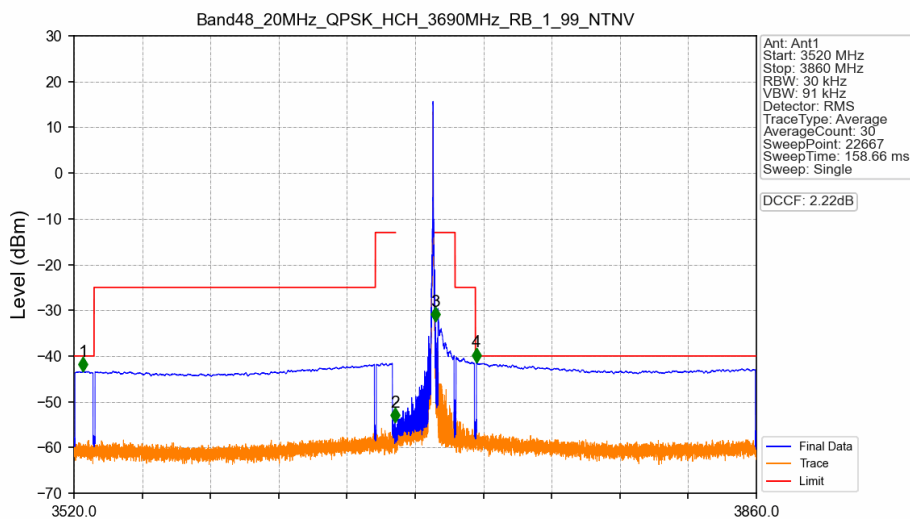
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### Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV



### Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_99\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3679.149	1	CHP	1	3524.575	-43.37	-40	Pass
3679.149	3680.149	0.03	/	2	3679.920	-54.53	-13	Pass
3680.149	3699.852	0.03	/	3	3699.930	-32.47	-13	Pass
3699.852	3700.852	0.03	/	4	3720.511	-41.37	-40	Pass



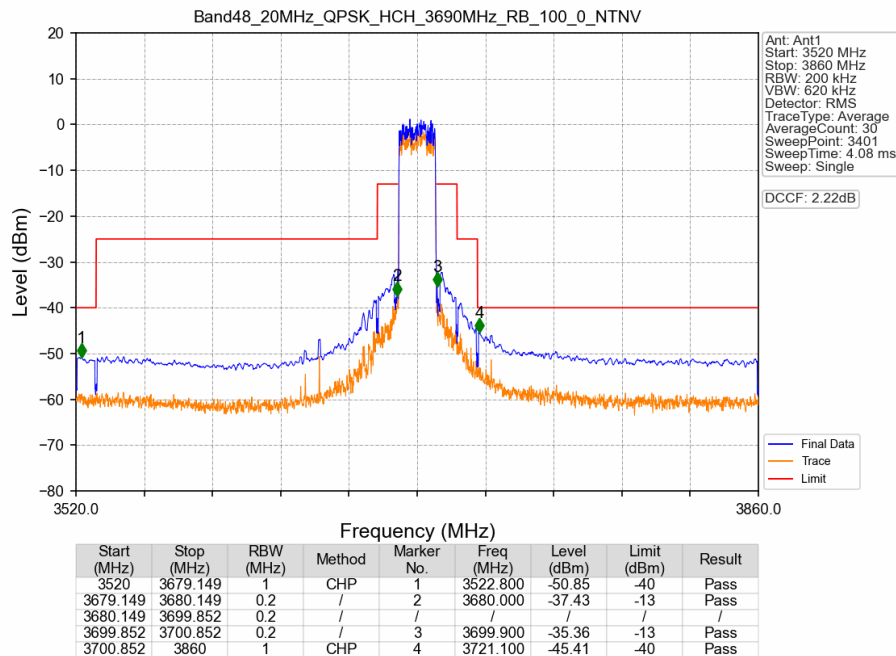
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### Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



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### 6. Adjacent Channel Leakage Ratio

#### 6.1 Test Result

##### 6.1.1 B48\_5MHz

Band: 48 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio		Verdict
		Size	Offset	Result	Limit	
QPSK	3552.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3697.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	3552.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3697.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

##### 6.1.2 B48\_10MHz

Band: 48 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio		Verdict
		Size	Offset	Result	Limit	
QPSK	3555	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass



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	3695		49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
16QAM	3555	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	3625	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	3695	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass

### 6.1.3 B48\_15MHz

Band: 48 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio		Verdict
		Size	Offset	Result	Limit	
QPSK	3557.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3692.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	3557.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3692.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



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### 6.1.4 B48\_20MHz

Band: 48 / Bandwidth: 20MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio		Verdict
		Size	Offset	Result	Limit	
QPSK	3560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3690	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	3560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3690	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



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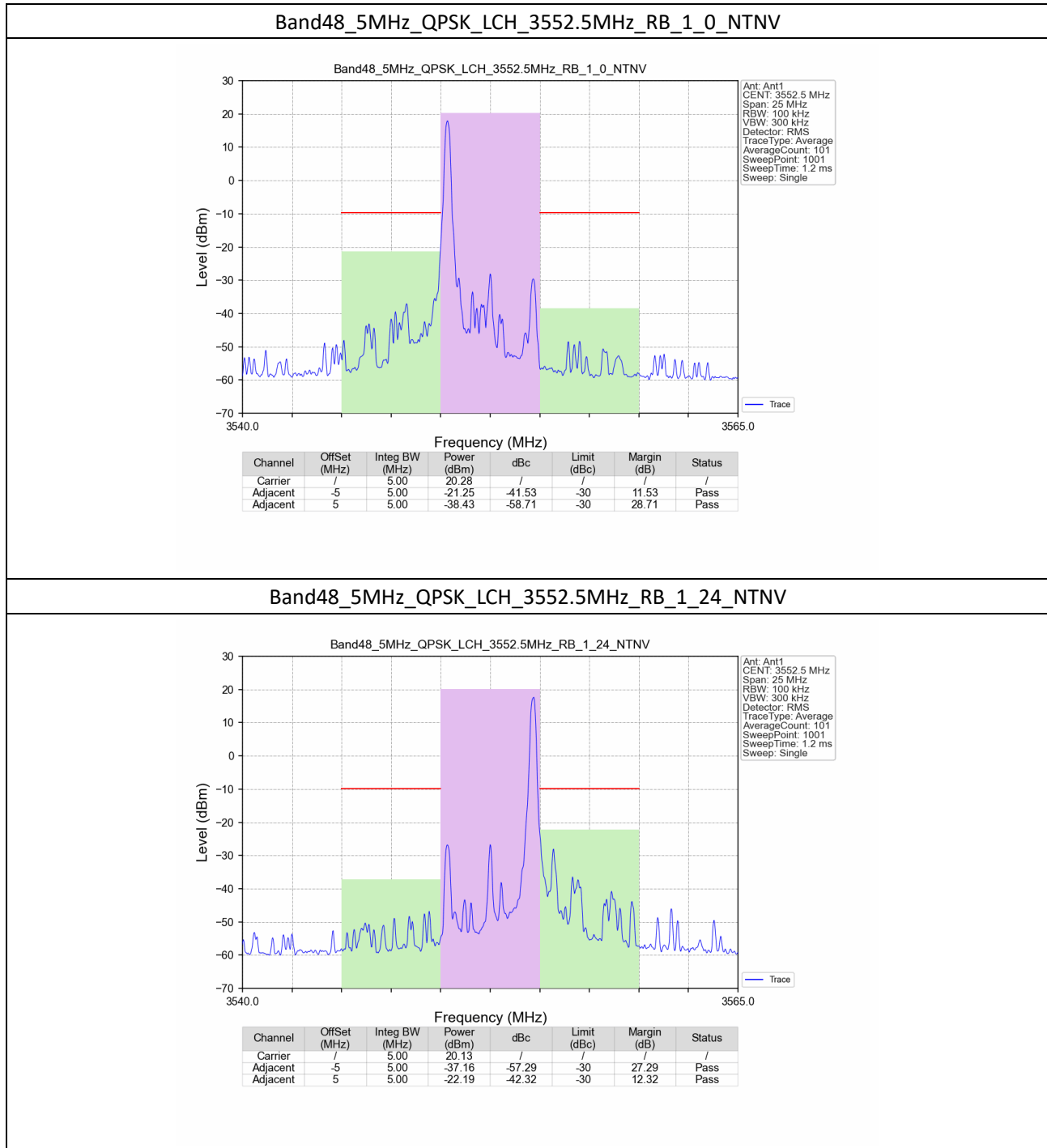
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### 6.2 Test Graph

#### 6.2.1 B48\_5MHz

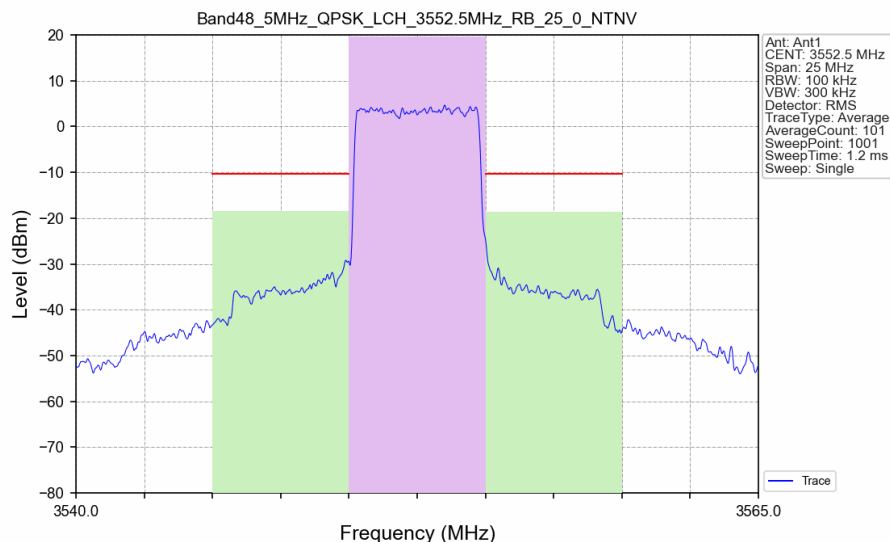


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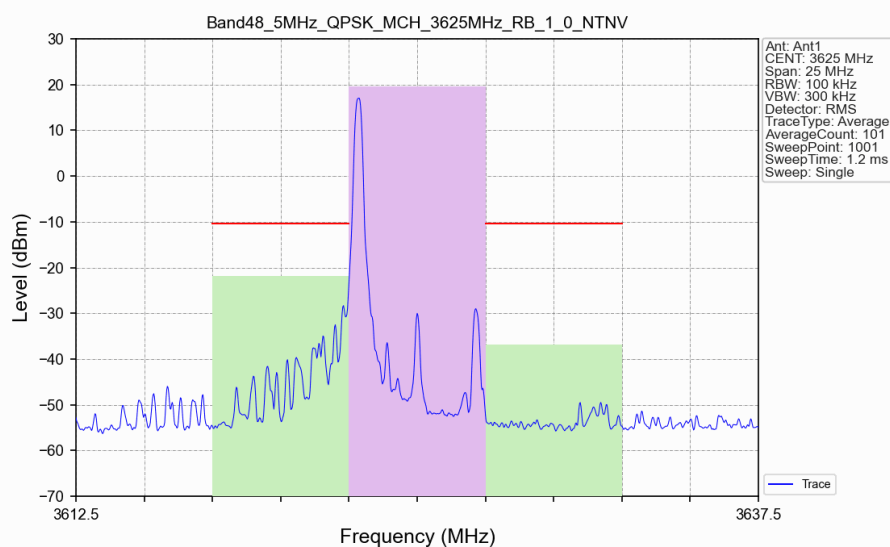
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### Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



### Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

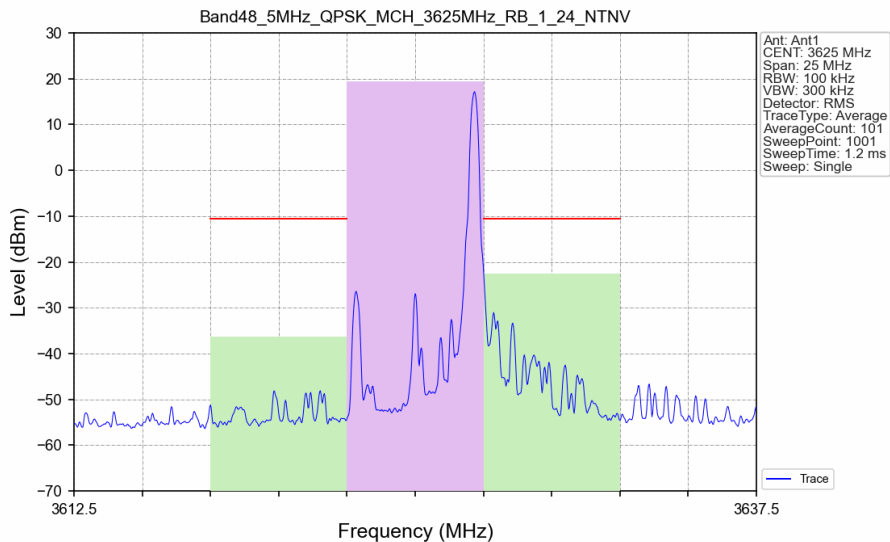


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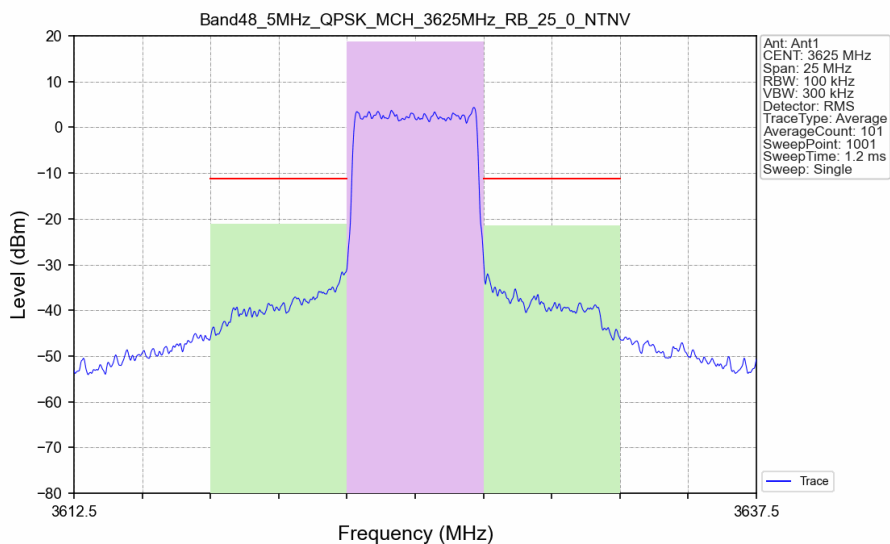
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### Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_24\_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	-	5.00	19.36	-	-	-	-
Adjacent	-5	5.00	-36.24	-55.60	-30	25.60	Pass
Adjacent	5	5.00	-22.55	-41.91	-30	11.91	Pass

### Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_25\_0\_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	-	5.00	18.70	-	-	-	-
Adjacent	-5	5.00	-21.16	-39.86	-30	9.86	Pass
Adjacent	5	5.00	-21.38	-40.08	-30	10.08	Pass



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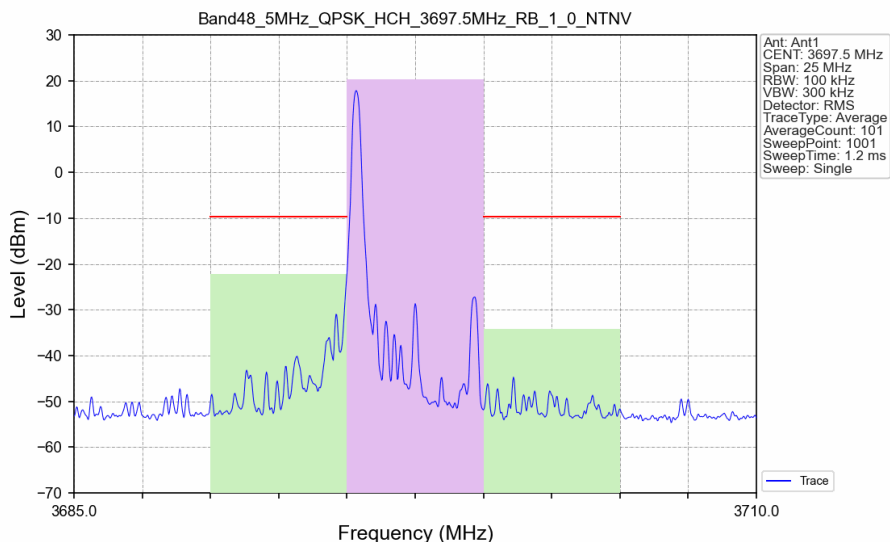
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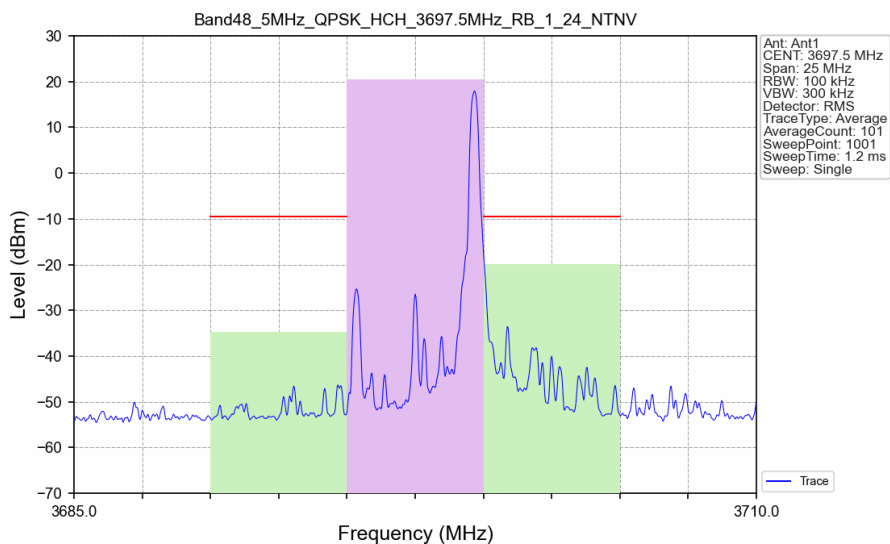
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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_0\_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	20.34	/	/	/	/
Adjacent	-5	5.00	-22.25	-42.59	-30	12.59	Pass
Adjacent	5	5.00	-34.15	-54.49	-30	24.49	Pass

Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_24\_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	20.48	/	/	/	/
Adjacent	-5	5.00	-34.78	-55.26	-30	25.26	Pass
Adjacent	5	5.00	-19.93	-40.41	-30	10.41	Pass

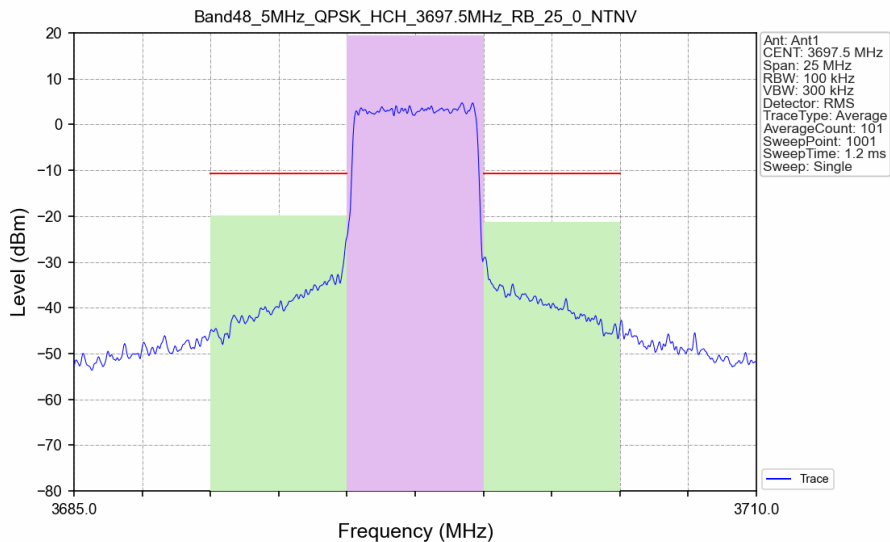


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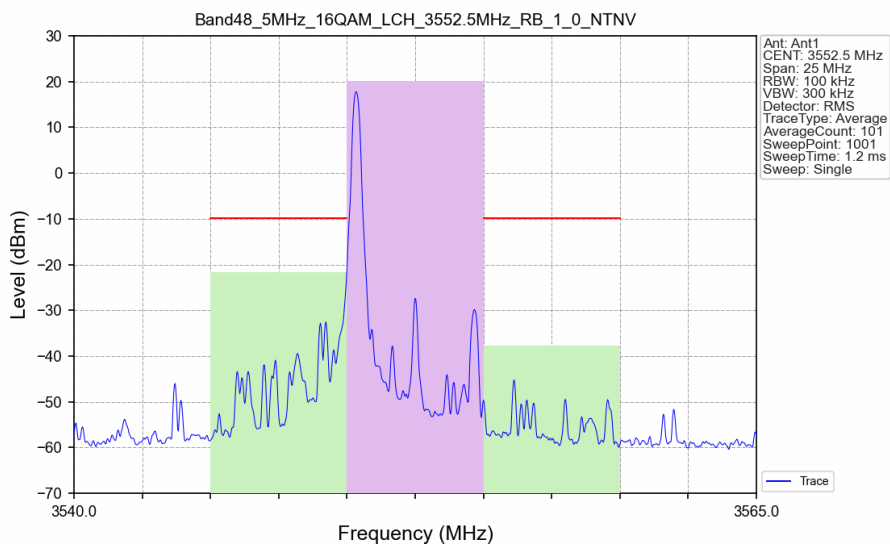
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### Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	-	5.00	19.39	-	-	-	-
Adjacent	-5	5.00	-19.88	-39.27	-30	9.27	Pass
Adjacent	5	5.00	-21.23	-40.62	-30	10.62	Pass

### Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_1\_0\_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	-	5.00	20.10	-	-	-	-
Adjacent	-5	5.00	-21.69	-41.79	-30	11.79	Pass
Adjacent	5	5.00	-37.74	-57.84	-30	27.84	Pass

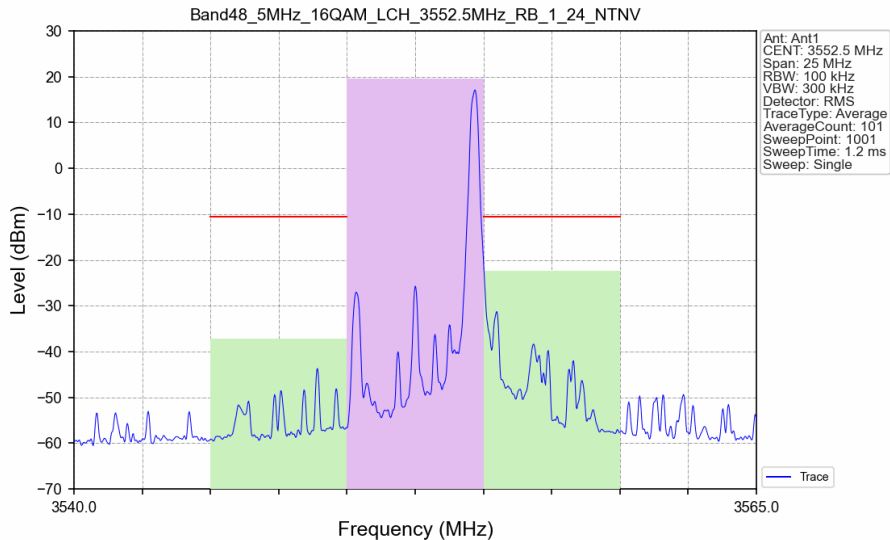


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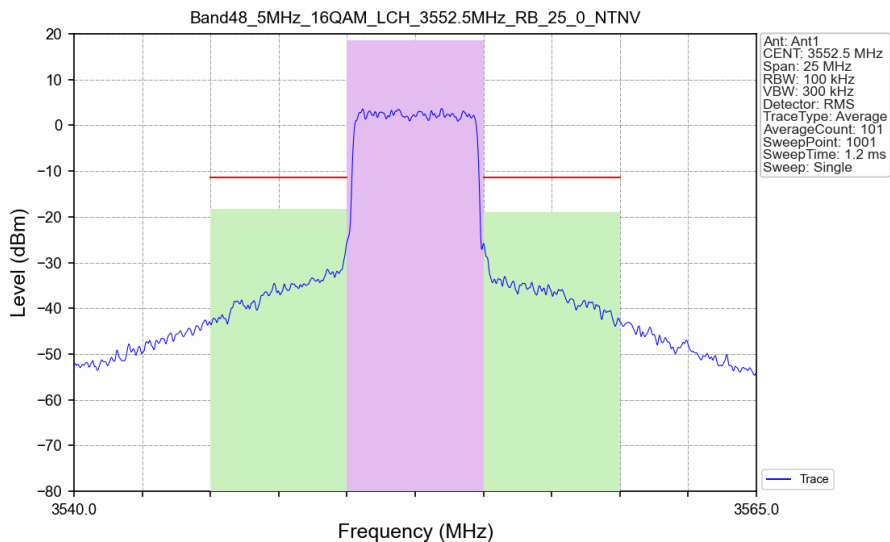
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Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_1\_24\_NTNV



Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV

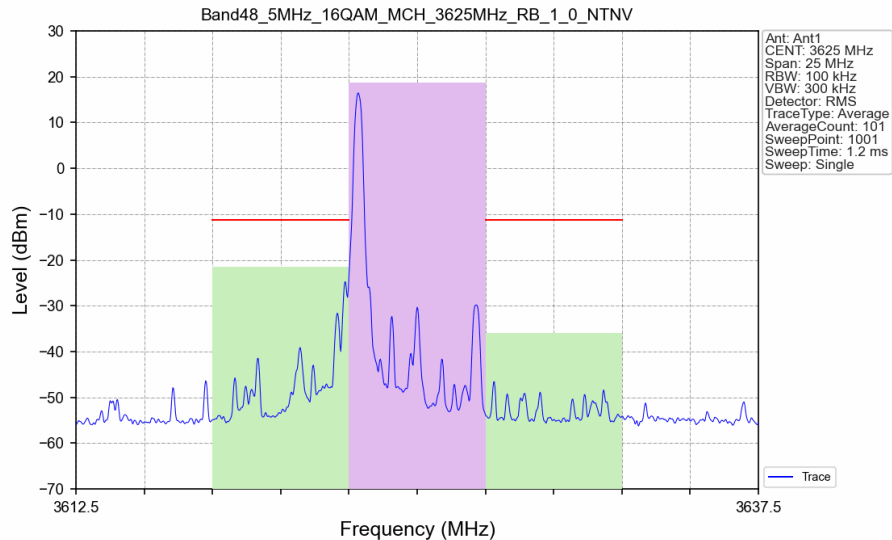


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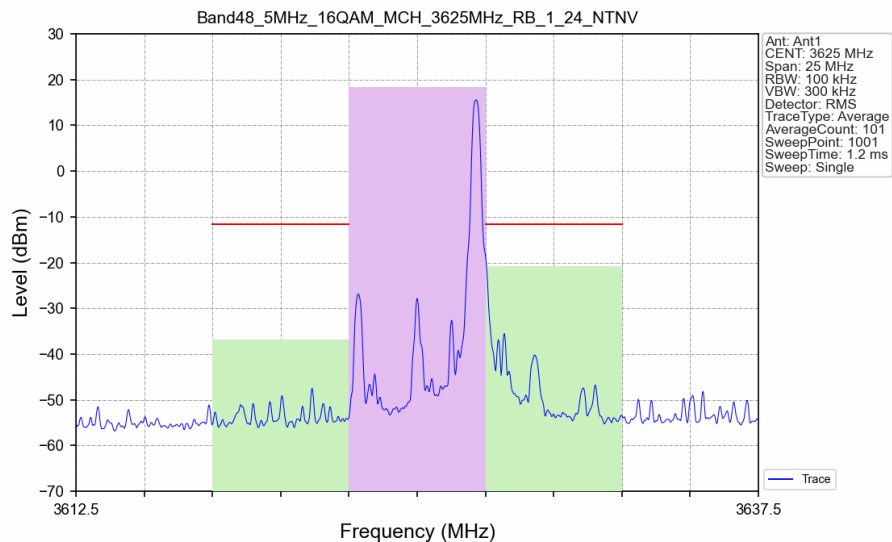
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Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_1\_0\_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	18.78	/	/	/	/
Adjacent	-5	5.00	-21.45	-40.23	-30	10.23	Pass
Adjacent	5	5.00	-35.97	-54.75	-30	24.75	Pass

Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_1\_24\_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	18.29	/	/	/	/
Adjacent	-5	5.00	-36.77	-55.06	-30	25.06	Pass
Adjacent	5	5.00	-20.78	-39.07	-30	9.07	Pass

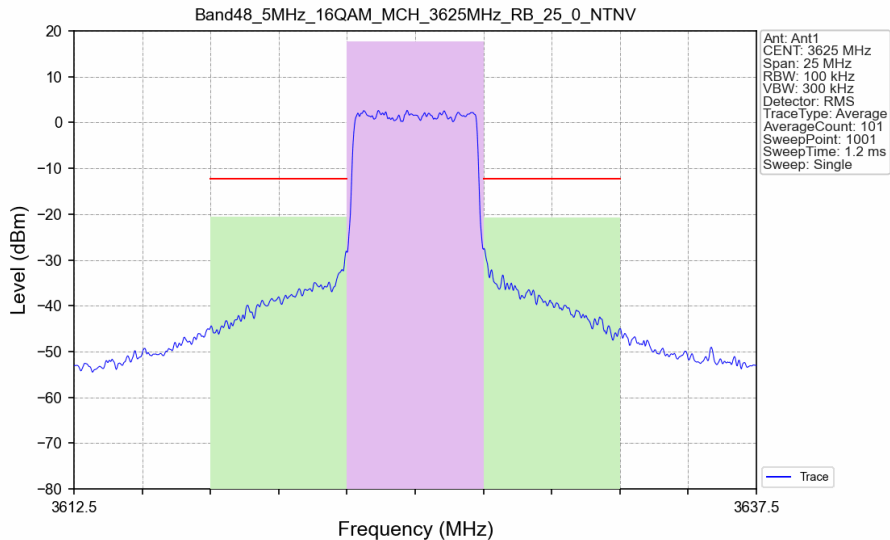


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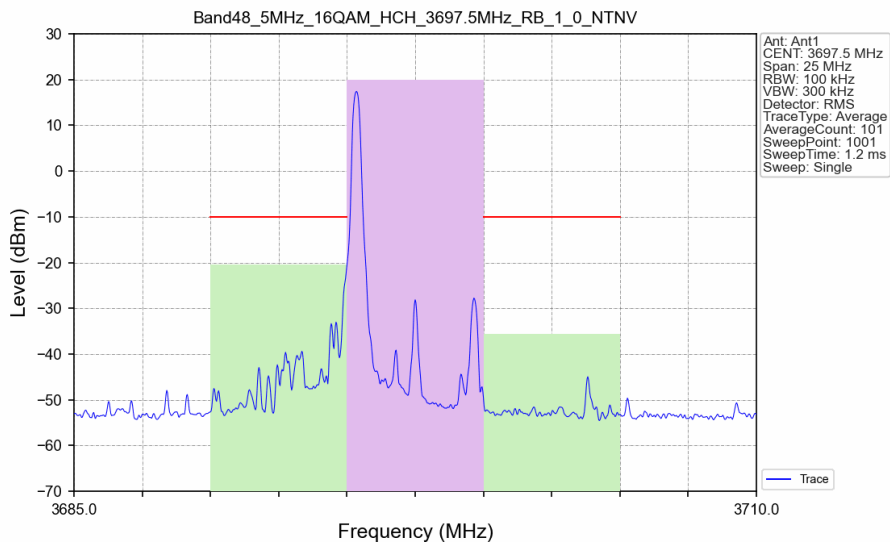
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Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	-	5.00	17.78	-	-	-	-
Adjacent	-5	5.00	-20.58	-38.36	-30	8.36	Pass
Adjacent	5	5.00	-20.77	-38.55	-30	8.55	Pass

Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_1\_0\_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	-	5.00	19.95	-	-	-	-
Adjacent	-5	5.00	-20.41	-40.36	-30	10.36	Pass
Adjacent	5	5.00	-35.60	-55.55	-30	25.55	Pass

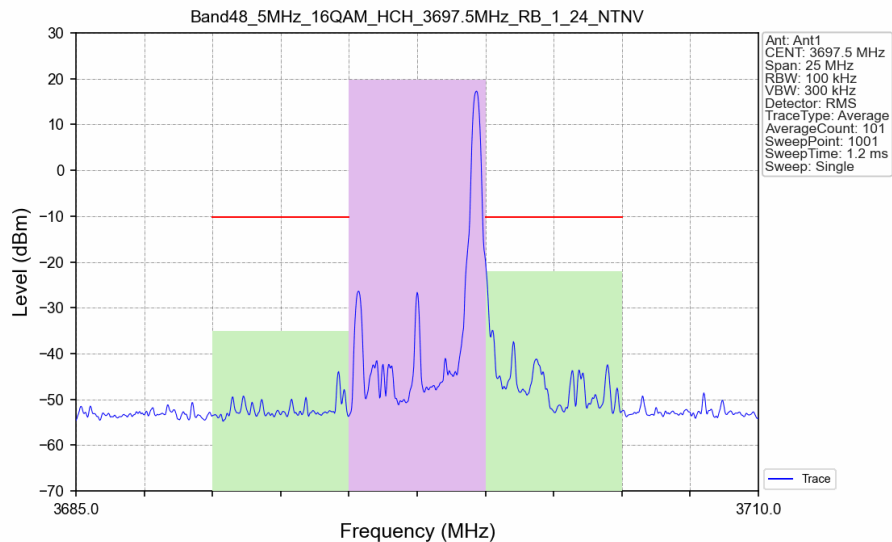


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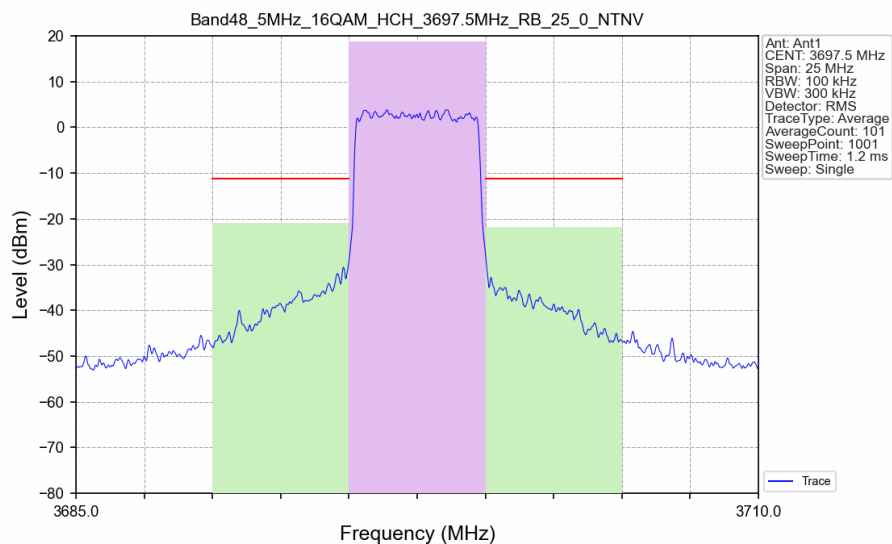
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Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_1\_24\_NTNV



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



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