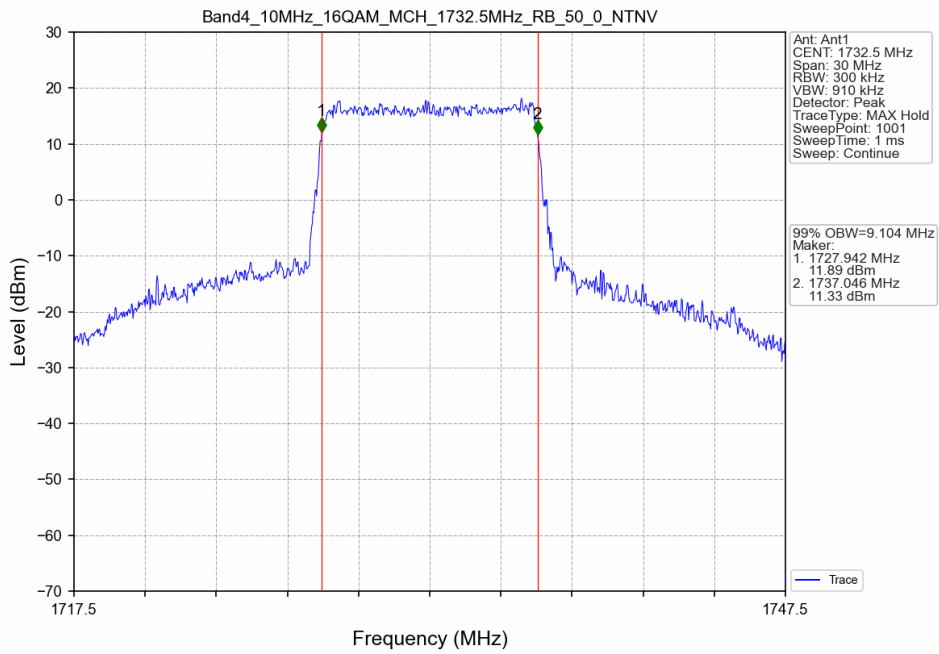
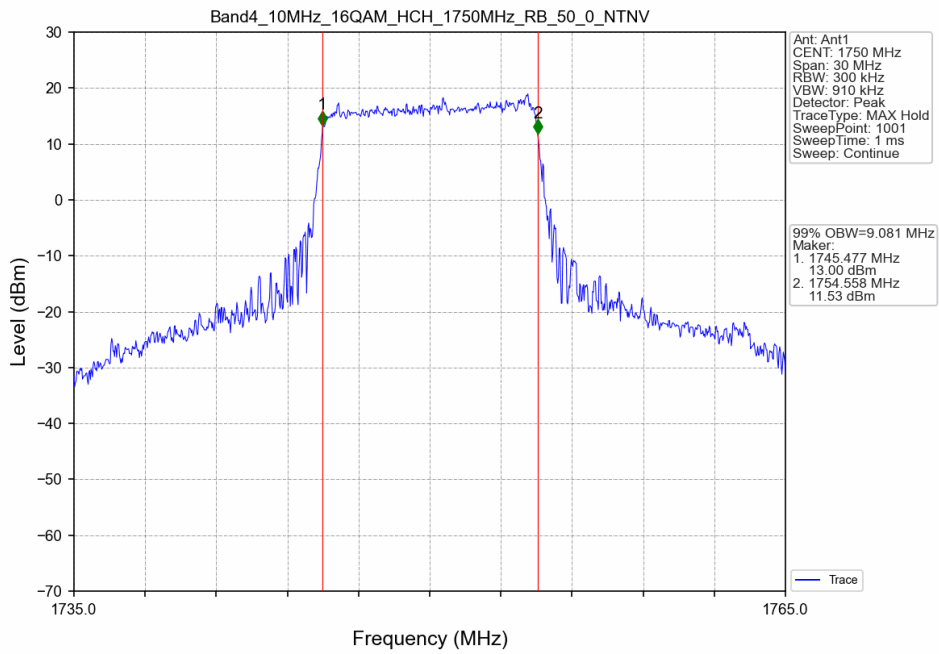


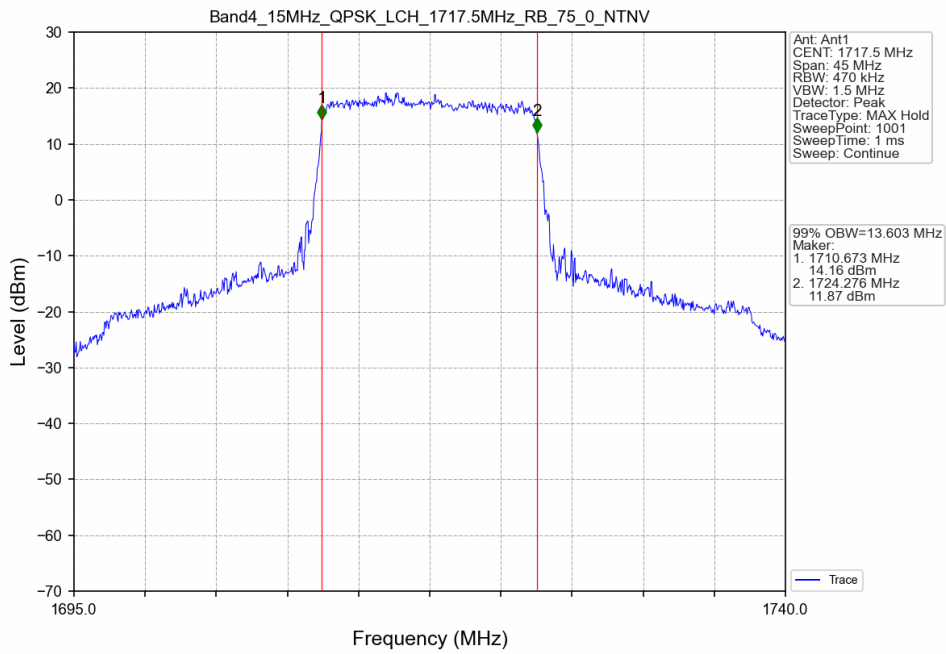
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



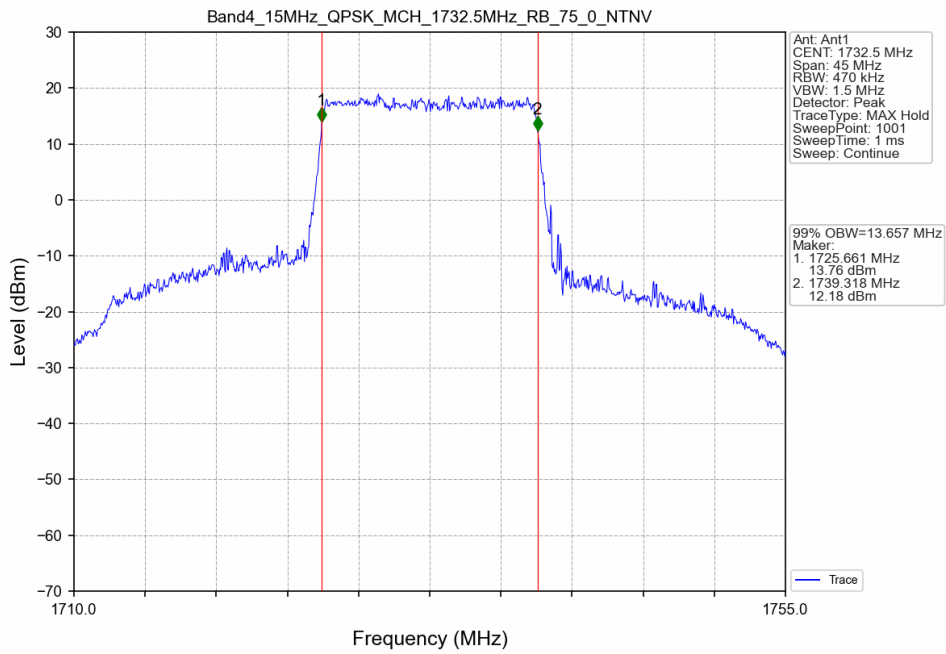
Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_50\_0\_NTNV



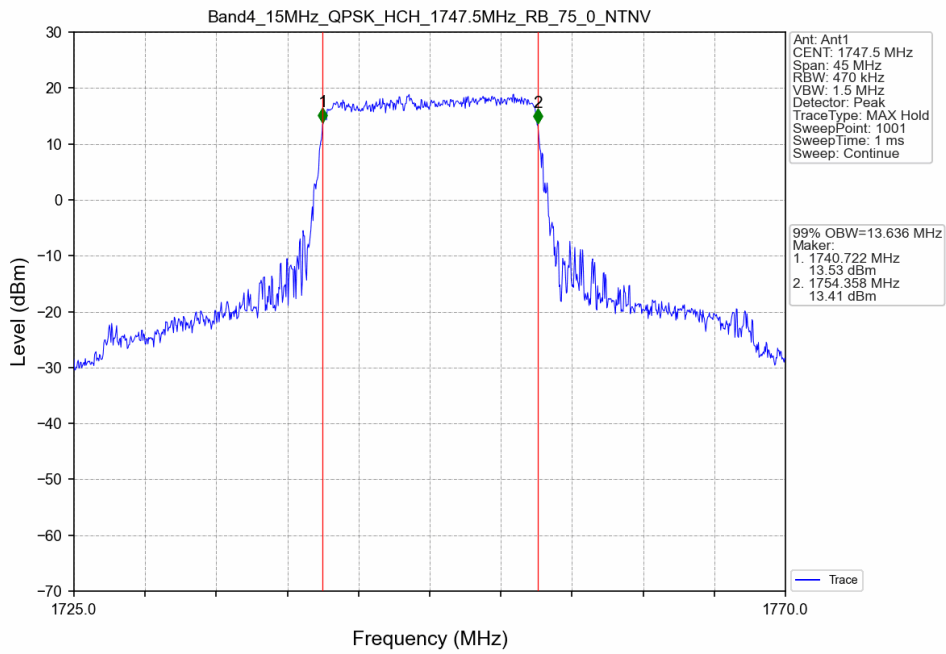
Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



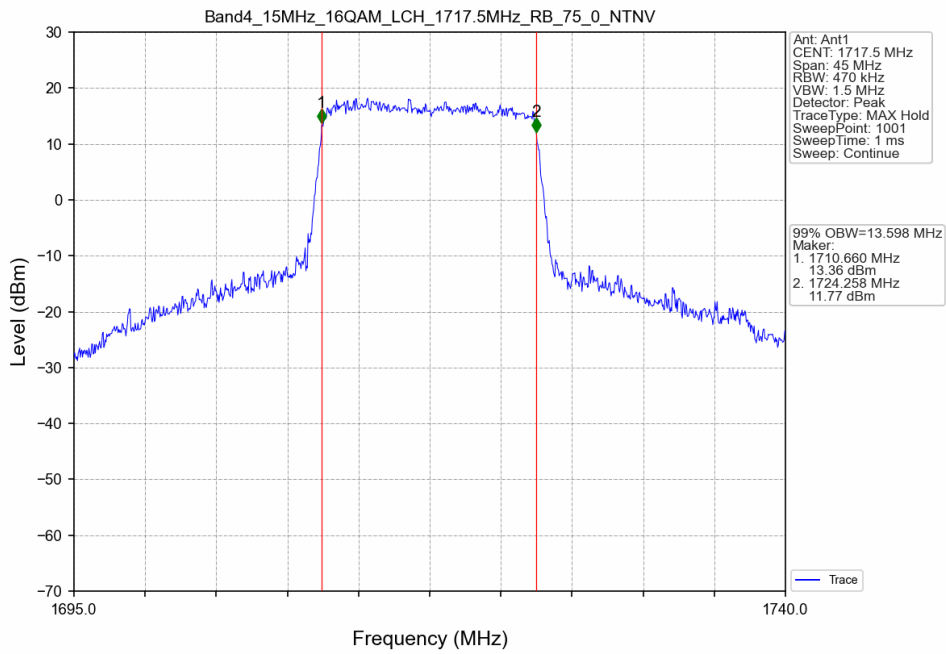
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



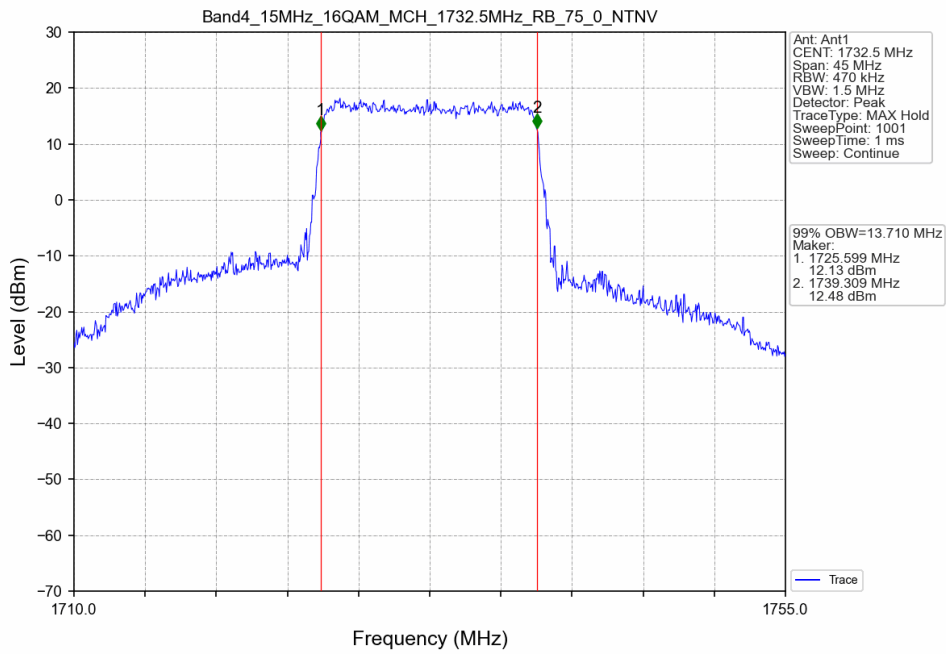
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



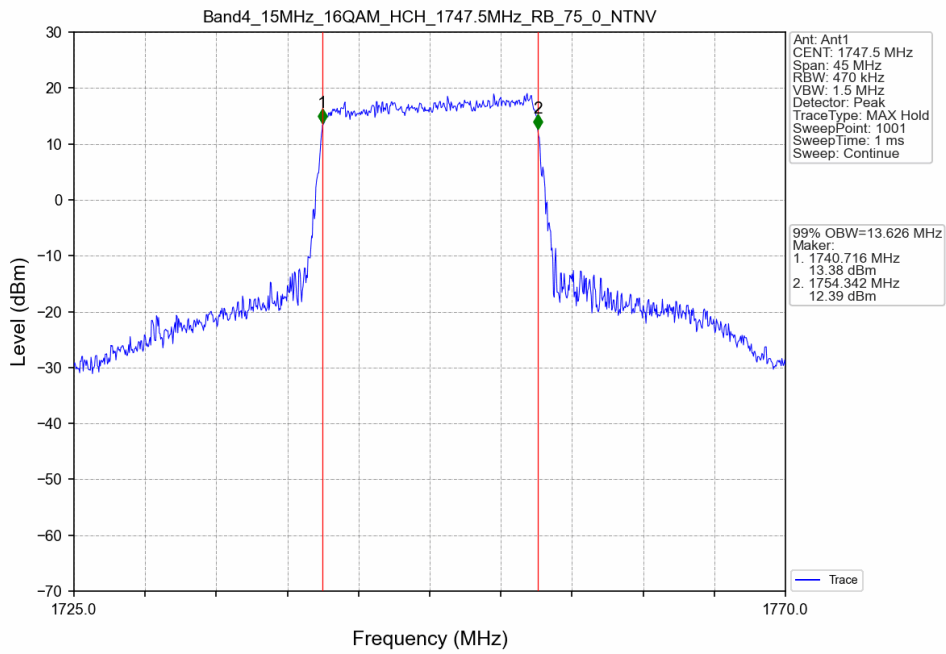
Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



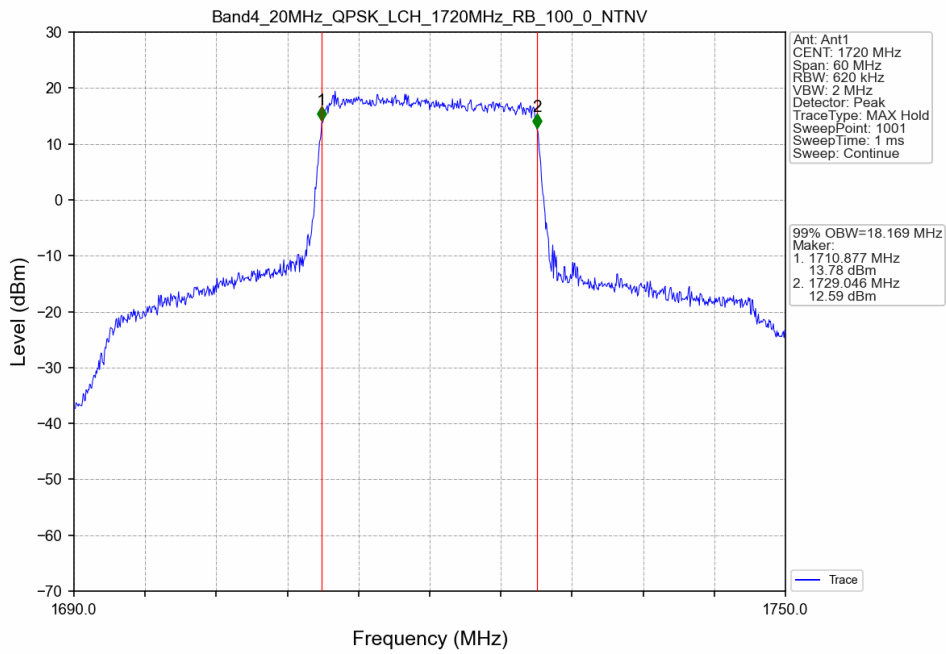
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



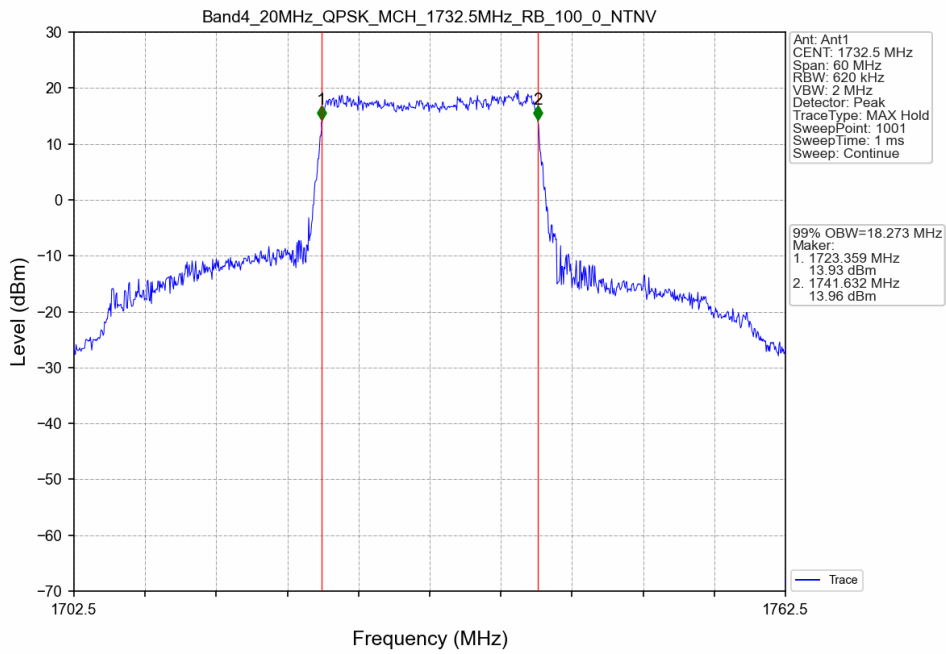
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



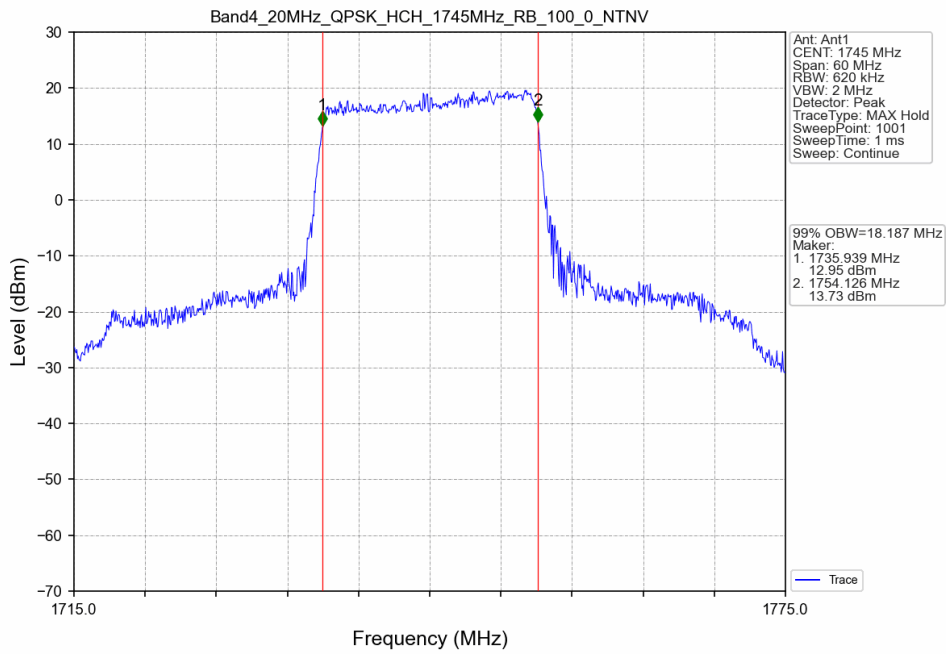
Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV



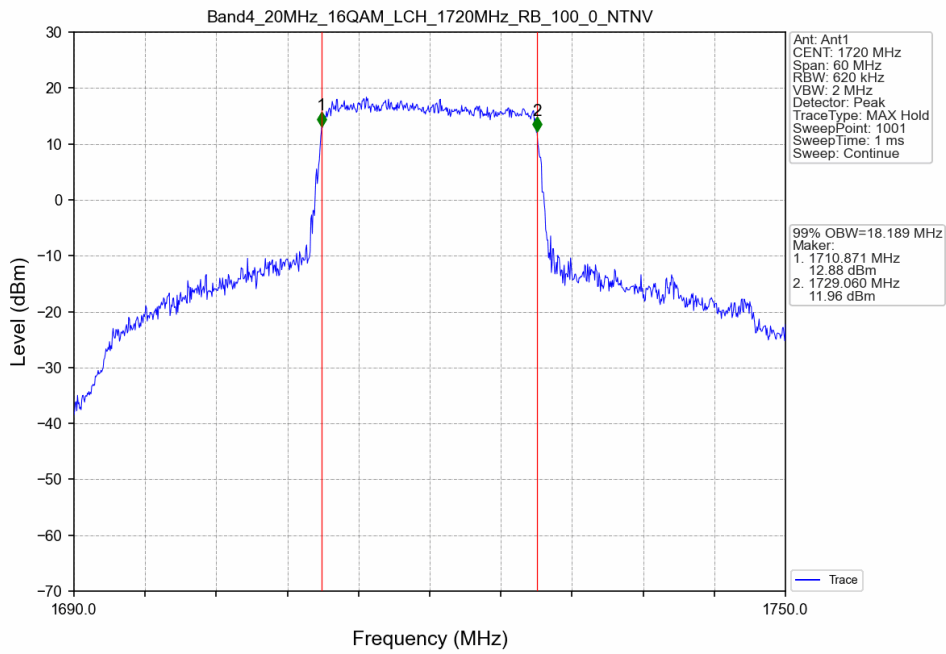
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



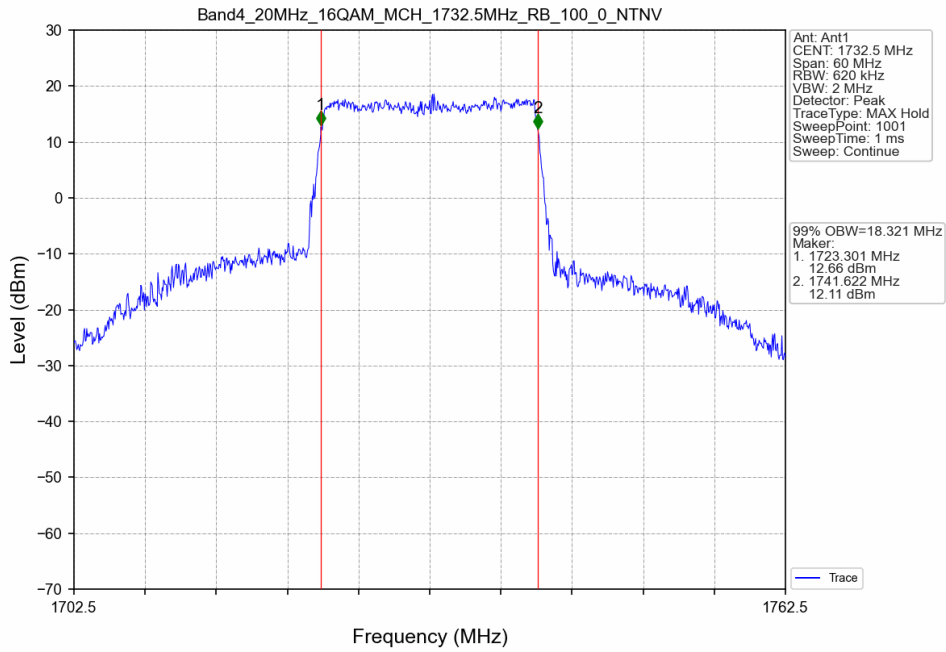
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



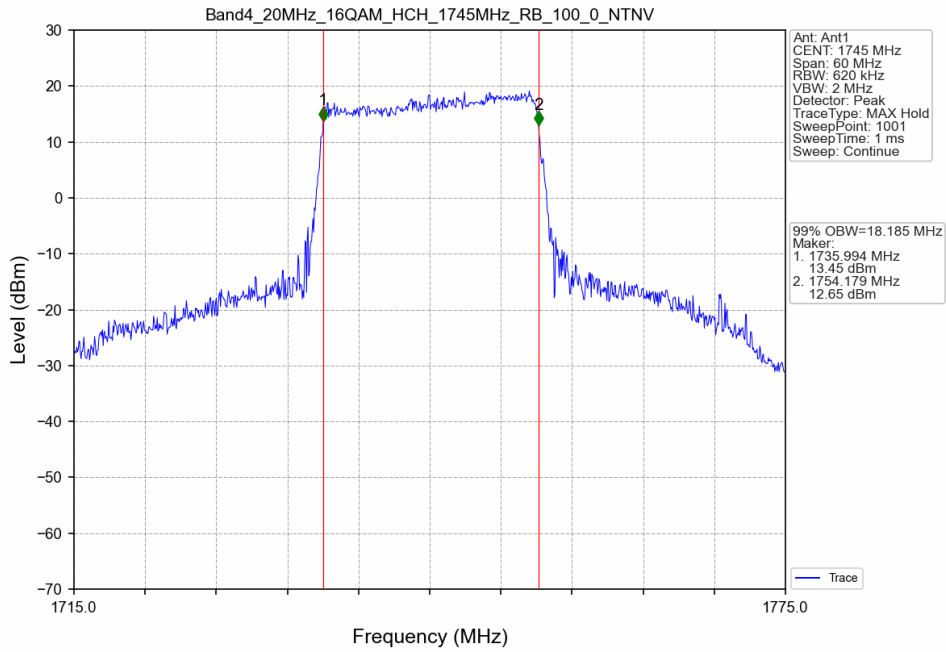
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_100\_0\_NTNV



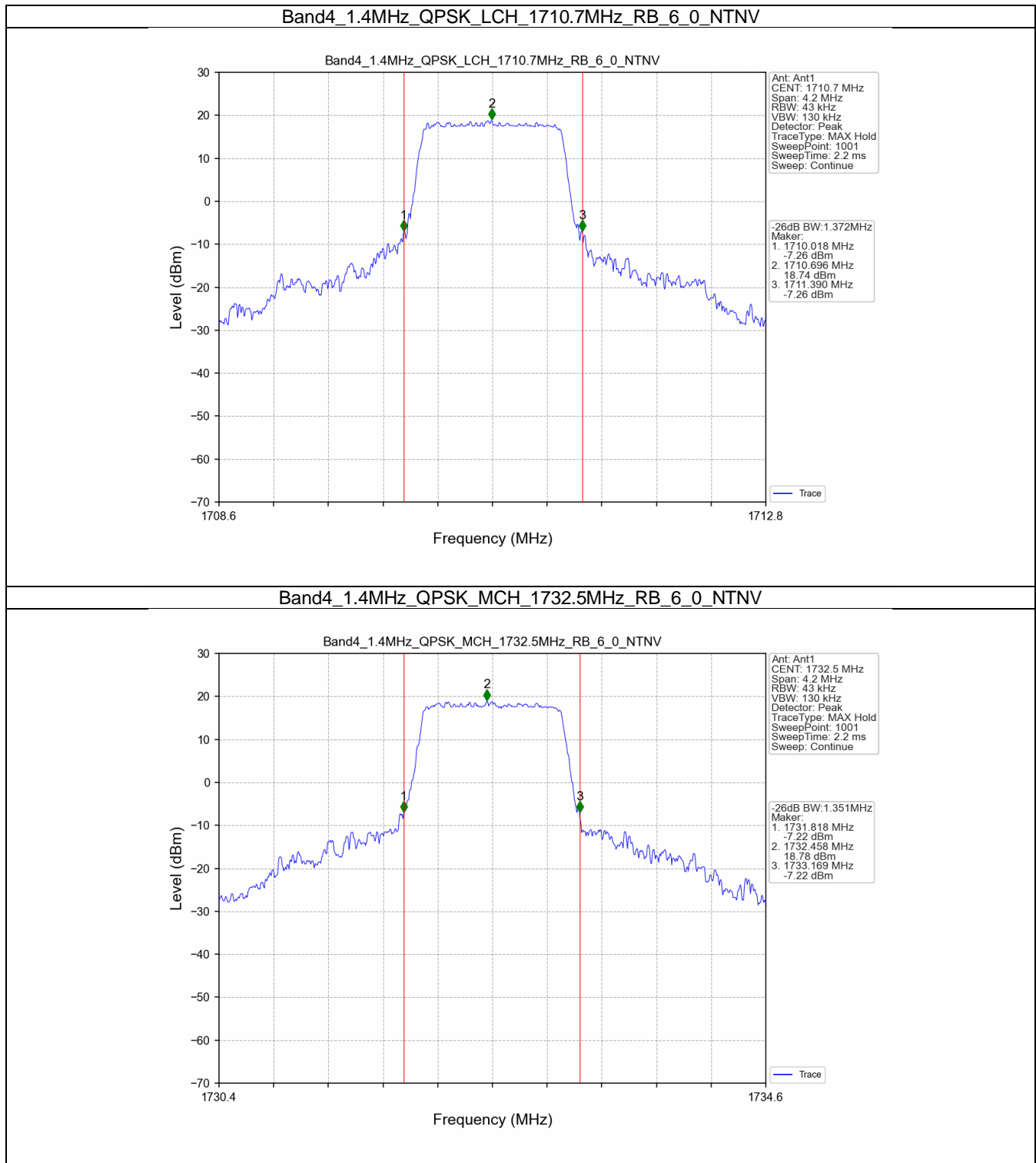
## 9.2 Band4\_XDB

### 9.2.1 Test Result

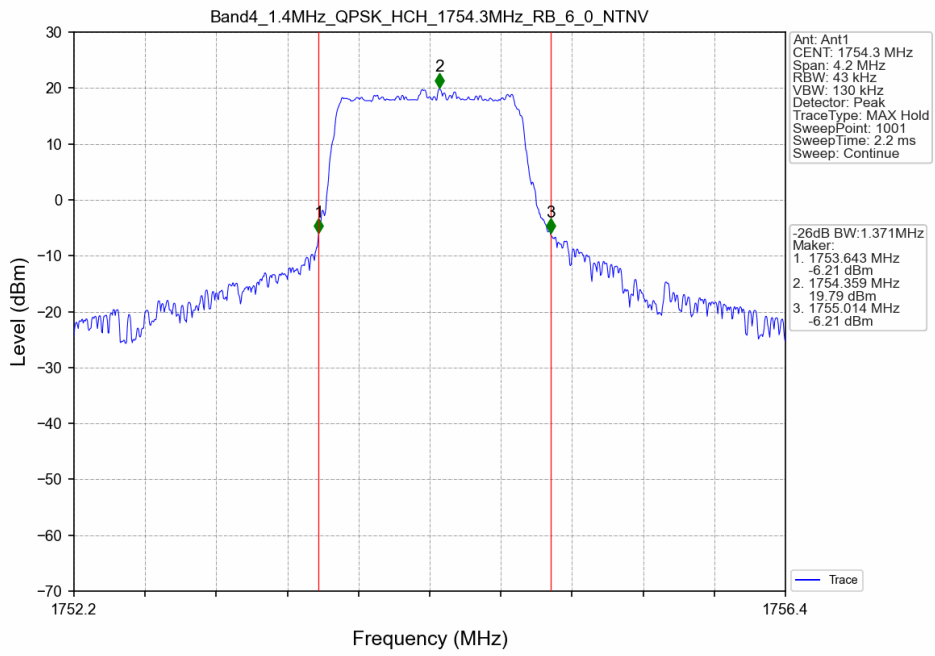
Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.372	/	Pass
		1732.5	6	0	1.351	/	Pass
		1754.3	6	0	1.371	/	Pass
	16QAM	1710.7	6	0	1.481	/	Pass
		1732.5	6	0	1.539	/	Pass
		1754.3	6	0	1.496	/	Pass
3	QPSK	1711.5	15	0	3.183	/	Pass
		1732.5	15	0	3.360	/	Pass
		1753.5	15	0	3.450	/	Pass
	16QAM	1711.5	15	0	3.281	/	Pass
		1732.5	15	0	3.453	/	Pass
		1753.5	15	0	3.615	/	Pass
5	QPSK	1712.5	25	0	5.481	/	Pass
		1732.5	25	0	5.273	/	Pass
		1752.5	25	0	5.816	/	Pass
	16QAM	1712.5	25	0	5.702	/	Pass
		1732.5	25	0	5.876	/	Pass
		1752.5	25	0	5.602	/	Pass
10	QPSK	1715	50	0	10.500	/	Pass
		1732.5	50	0	10.498	/	Pass
		1750	50	0	10.409	/	Pass
	16QAM	1715	50	0	10.504	/	Pass
		1732.5	50	0	10.192	/	Pass
		1750	50	0	10.669	/	Pass
15	QPSK	1717.5	75	0	15.745	/	Pass
		1732.5	75	0	15.794	/	Pass
		1747.5	75	0	16.057	/	Pass
	16QAM	1717.5	75	0	15.289	/	Pass
		1732.5	75	0	15.560	/	Pass
		1747.5	75	0	15.157	/	Pass
20	QPSK	1720	100	0	20.270	/	Pass
		1732.5	100	0	20.828	/	Pass
		1745	100	0	20.769	/	Pass
	16QAM	1720	100	0	20.288	/	Pass
		1732.5	100	0	20.498	/	Pass
		1745	100	0	20.608	/	Pass



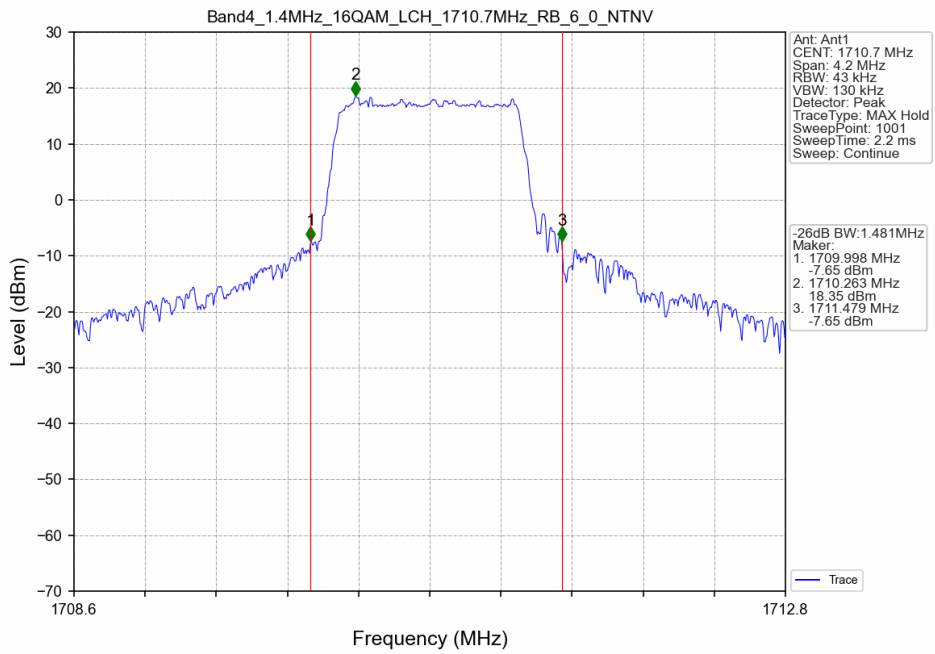
## 9.2.2 Test Graph



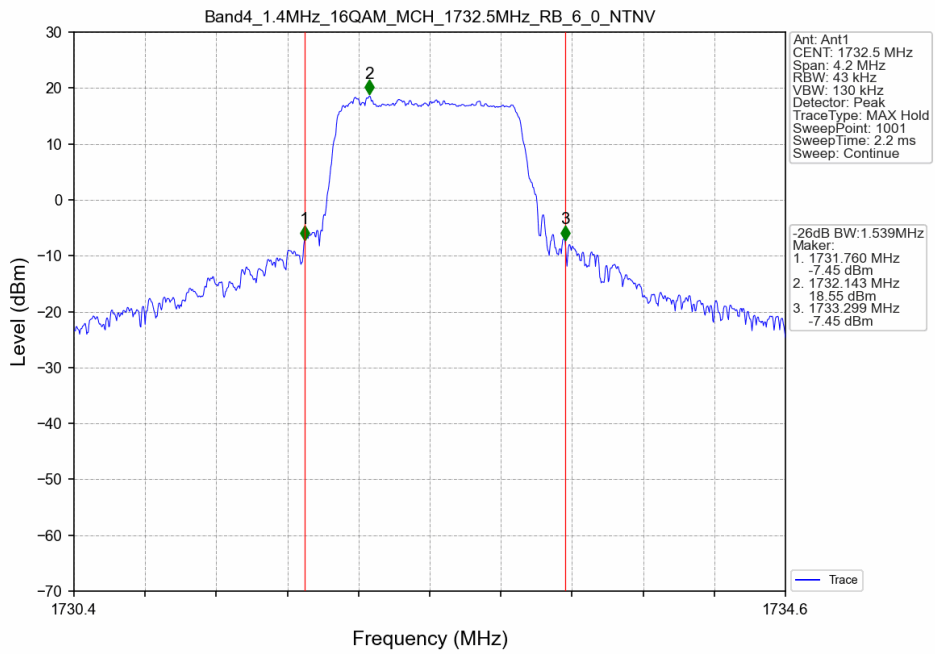
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



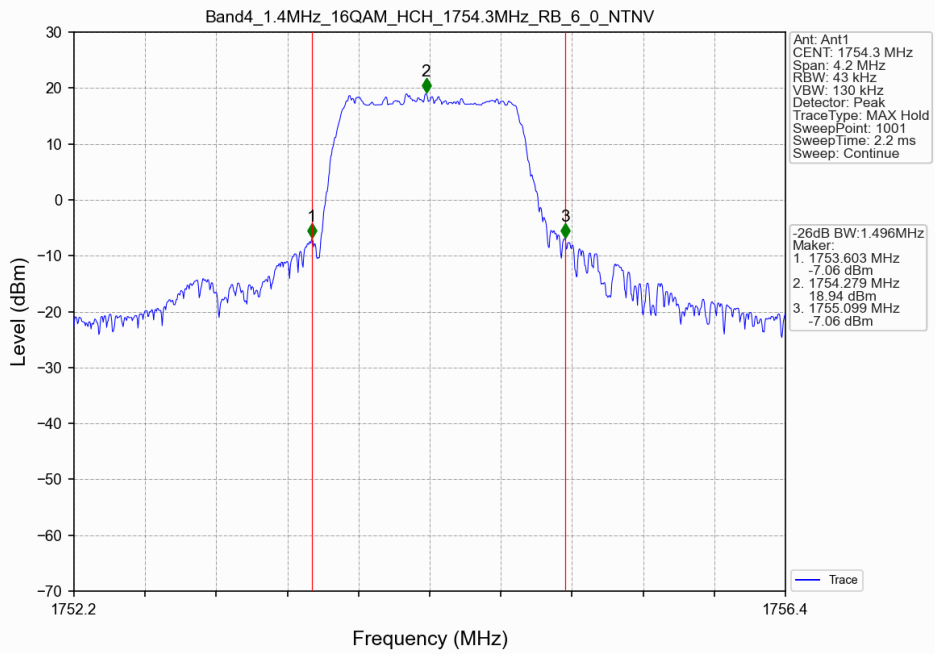
Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



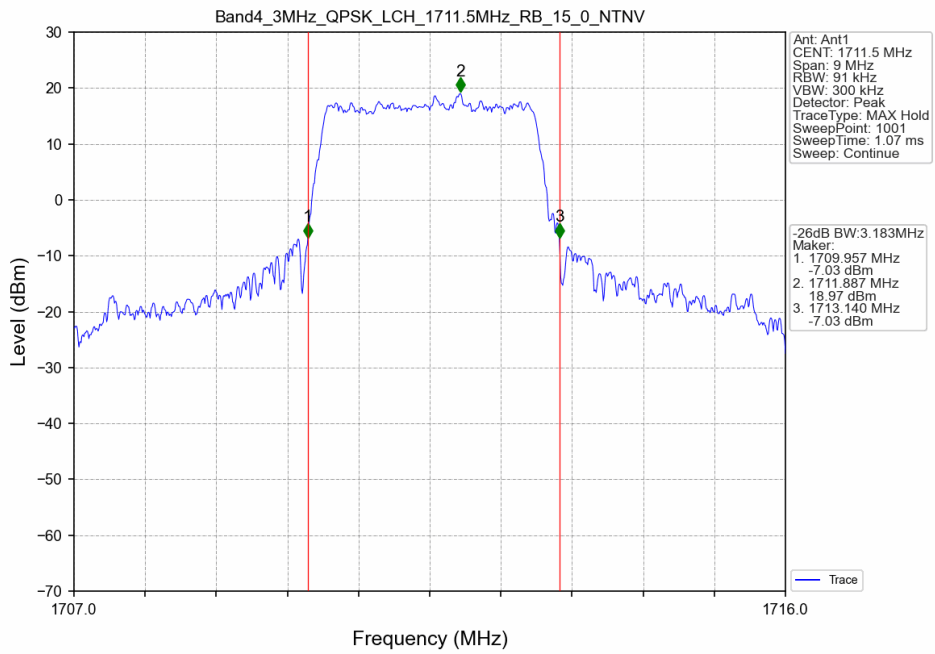
Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



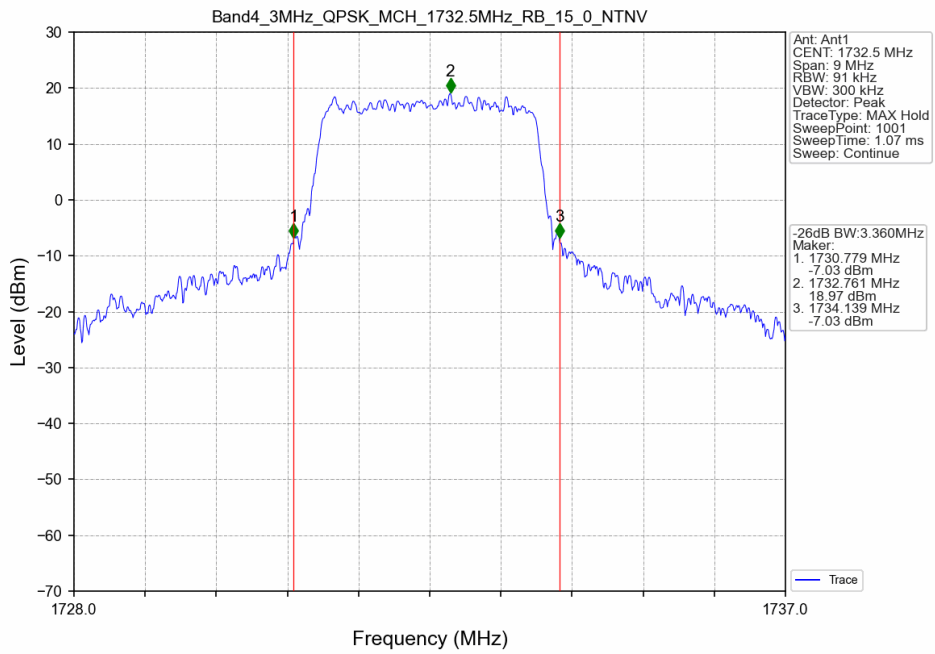
Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



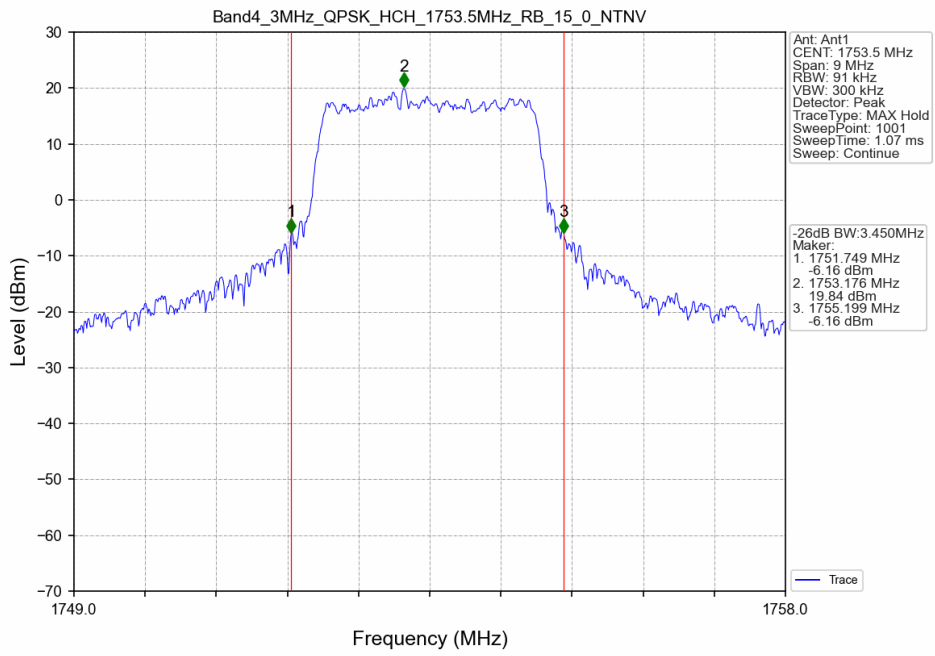
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



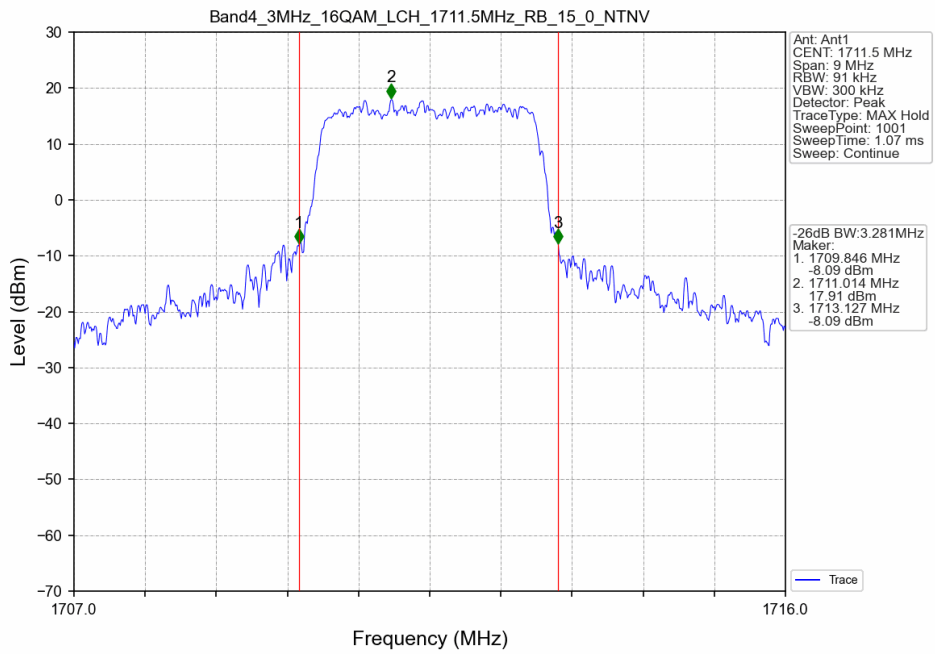
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



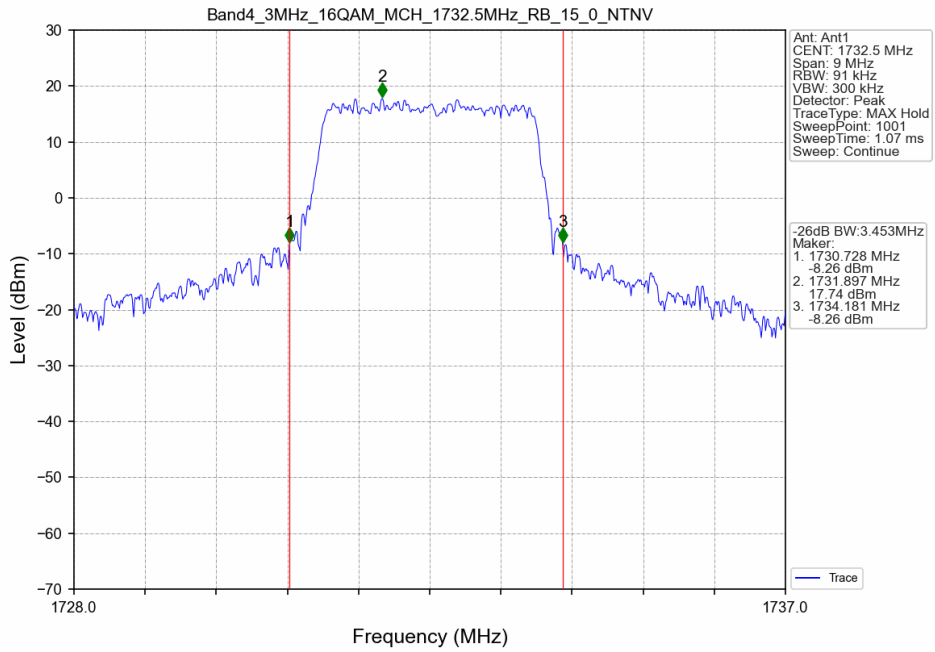
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



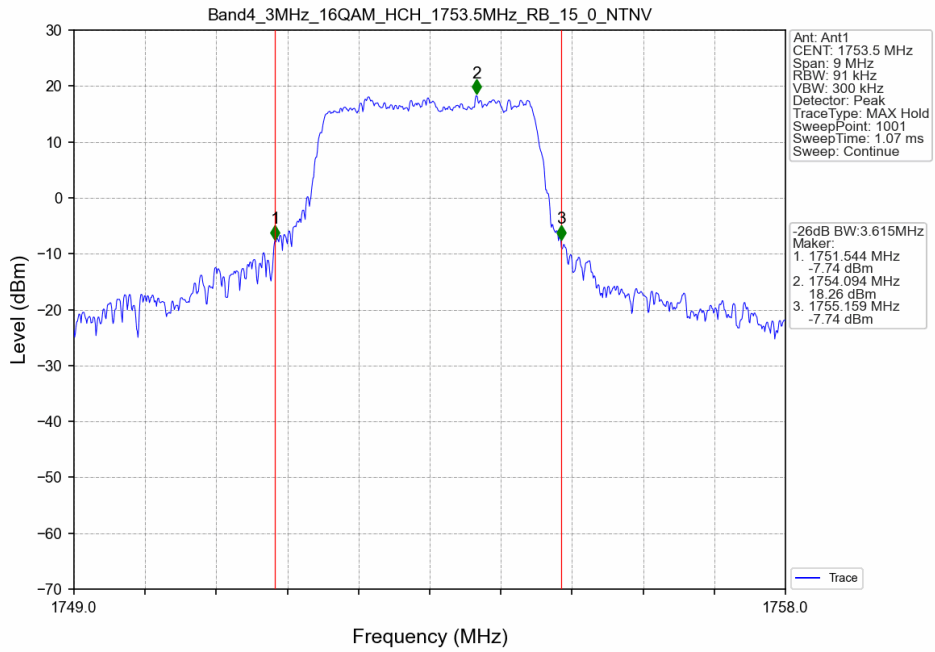
Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



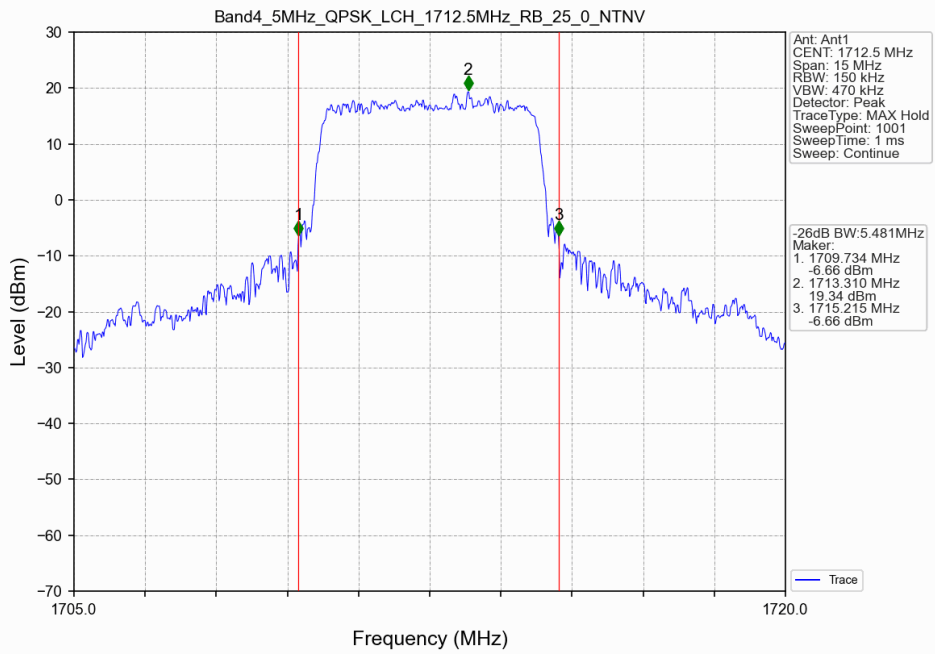
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



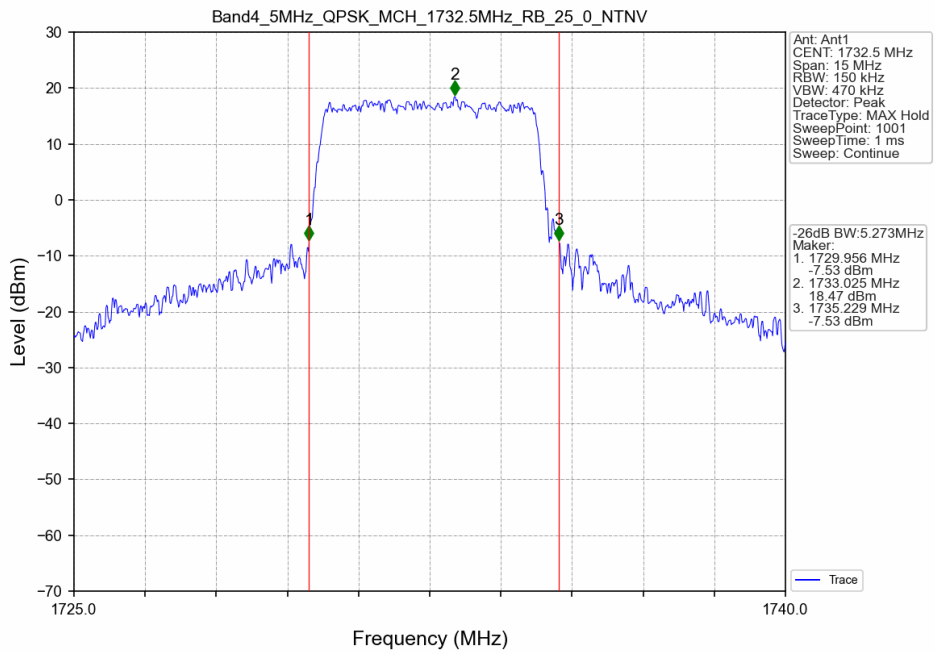
Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



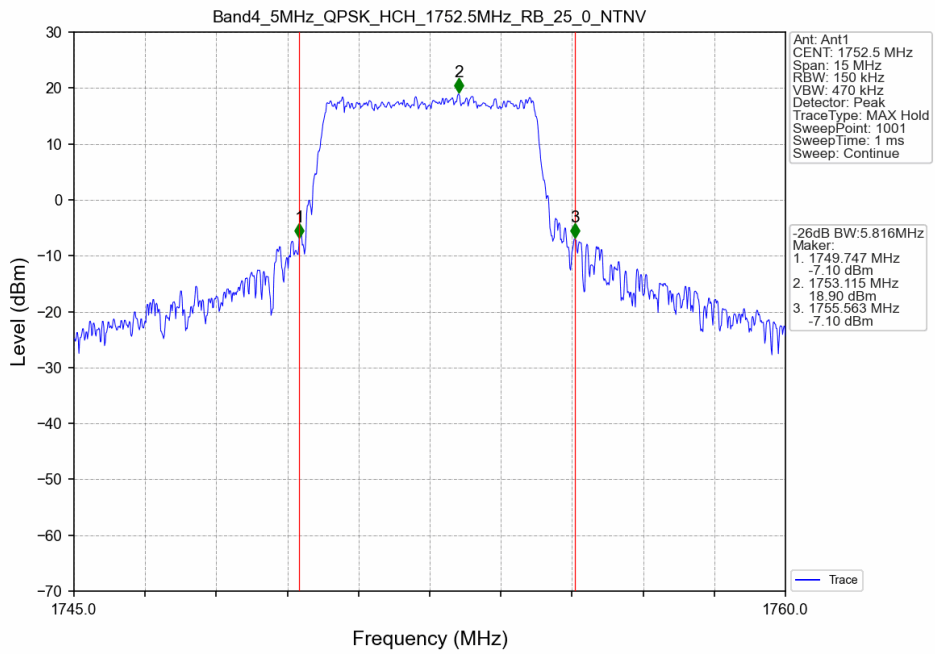
### Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



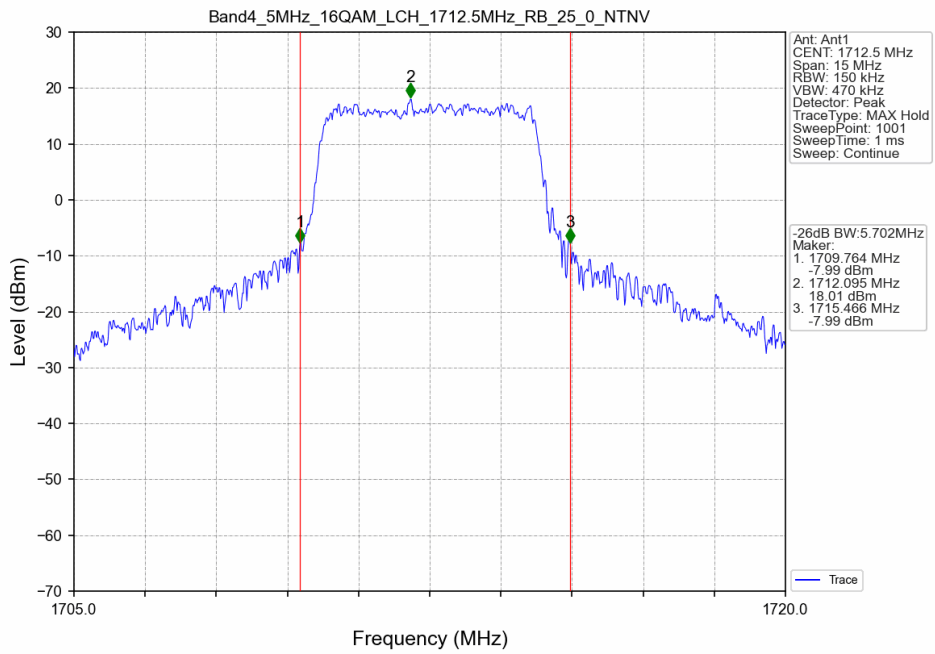
### Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV

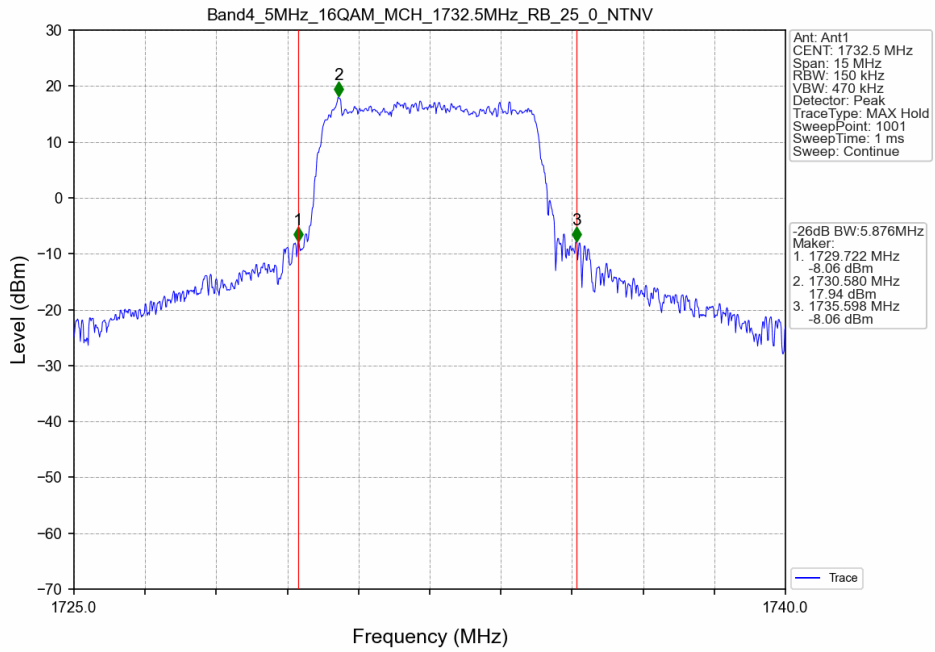


Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV

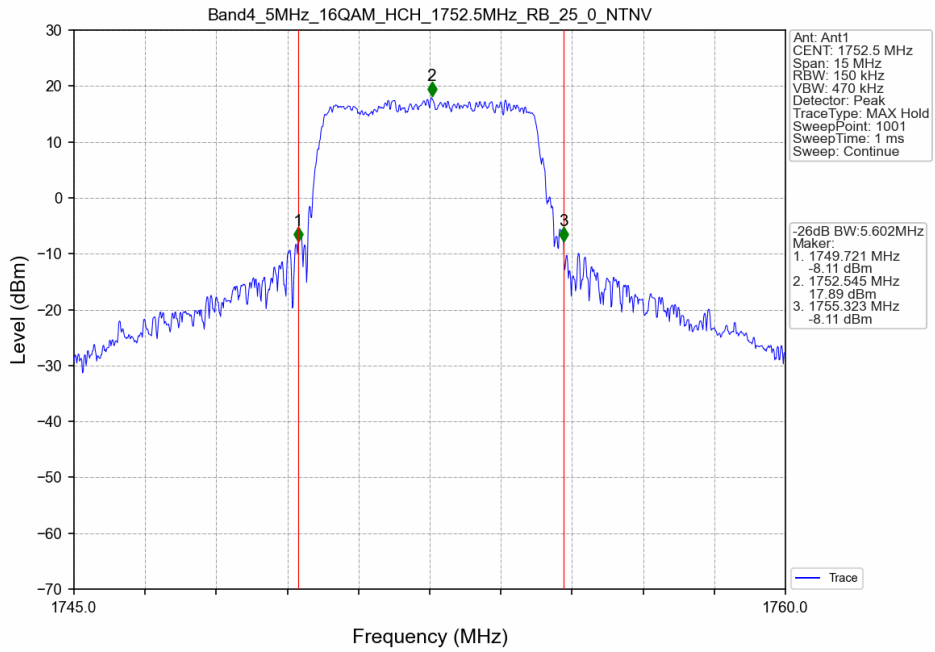




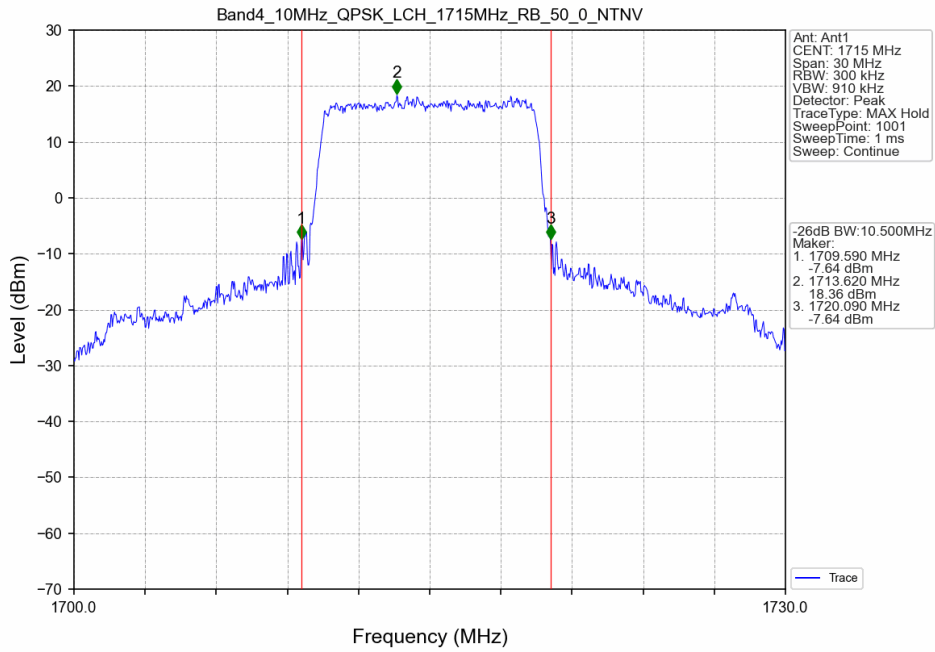
Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



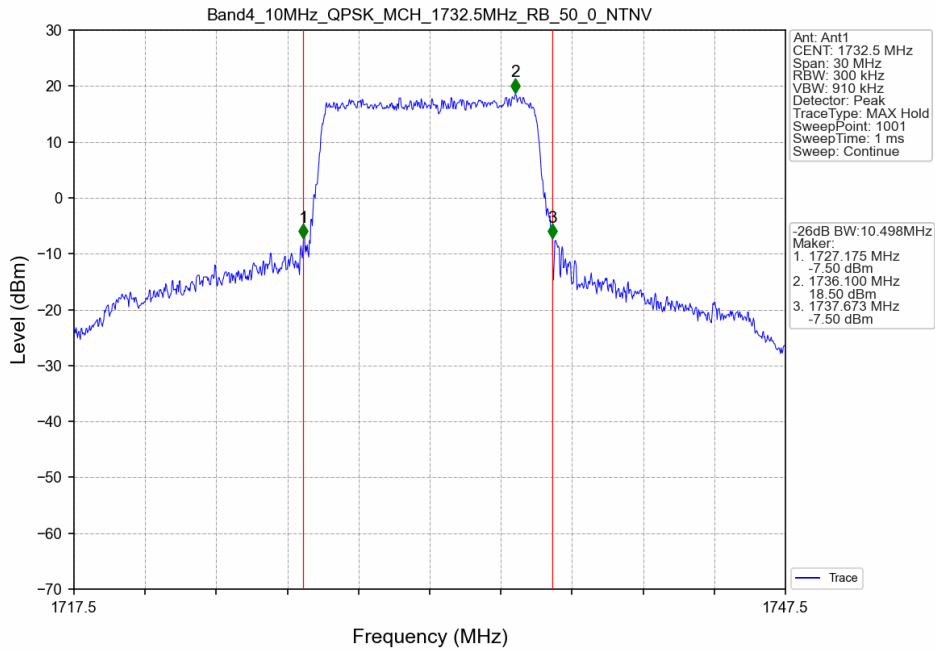
Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



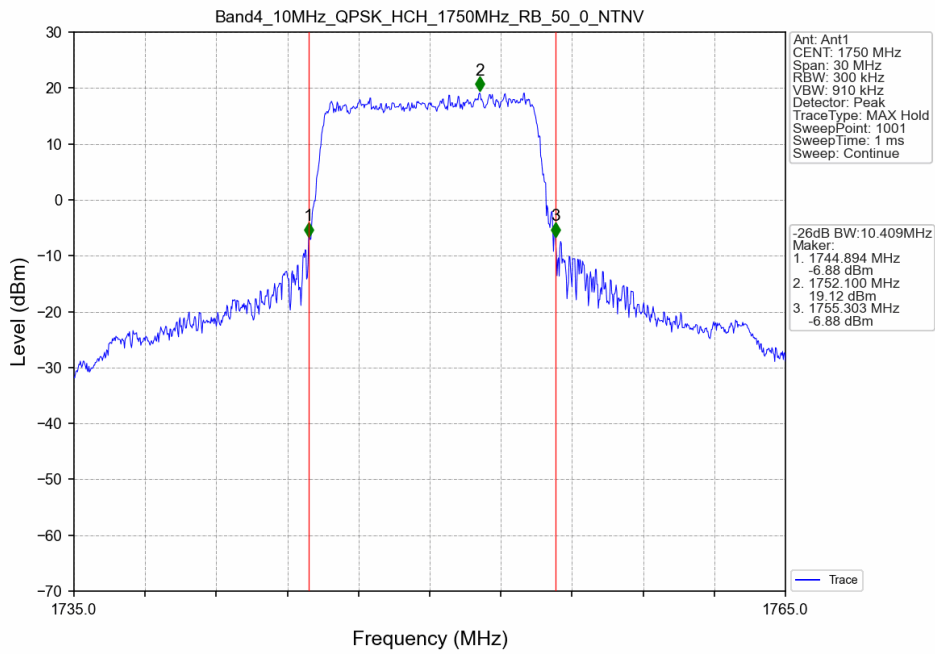
Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



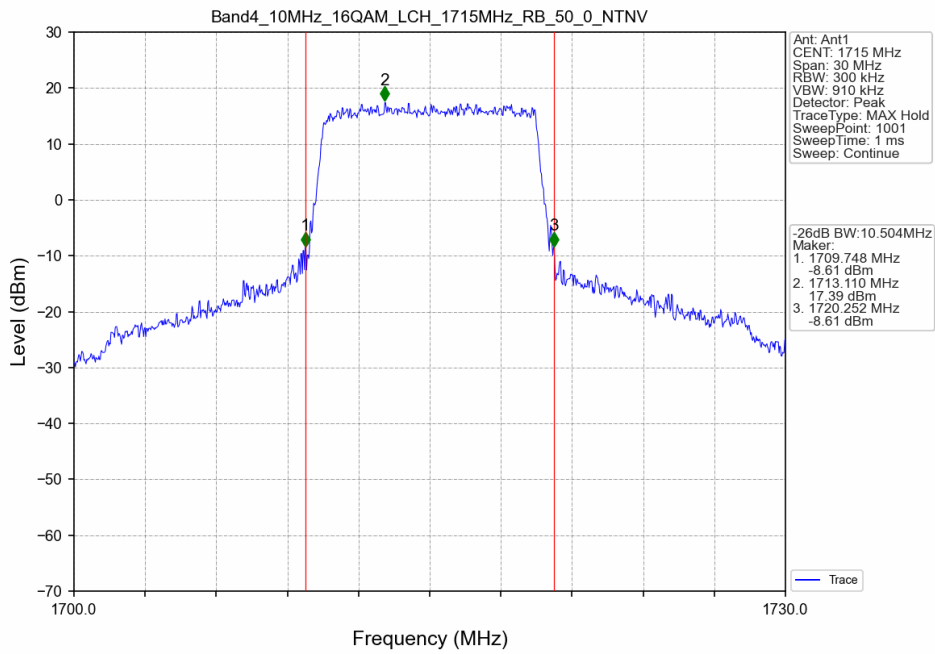
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



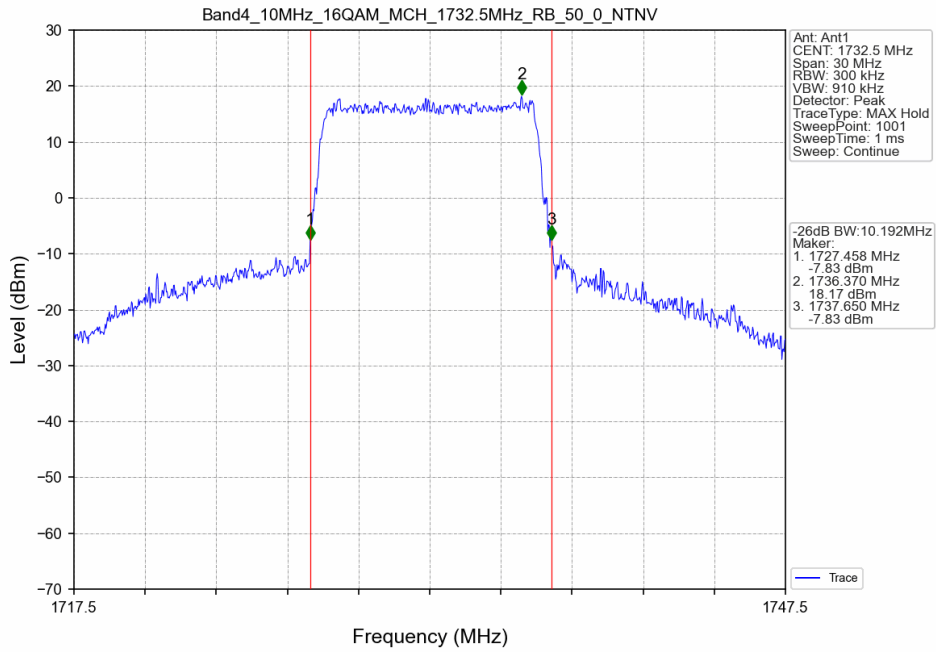
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



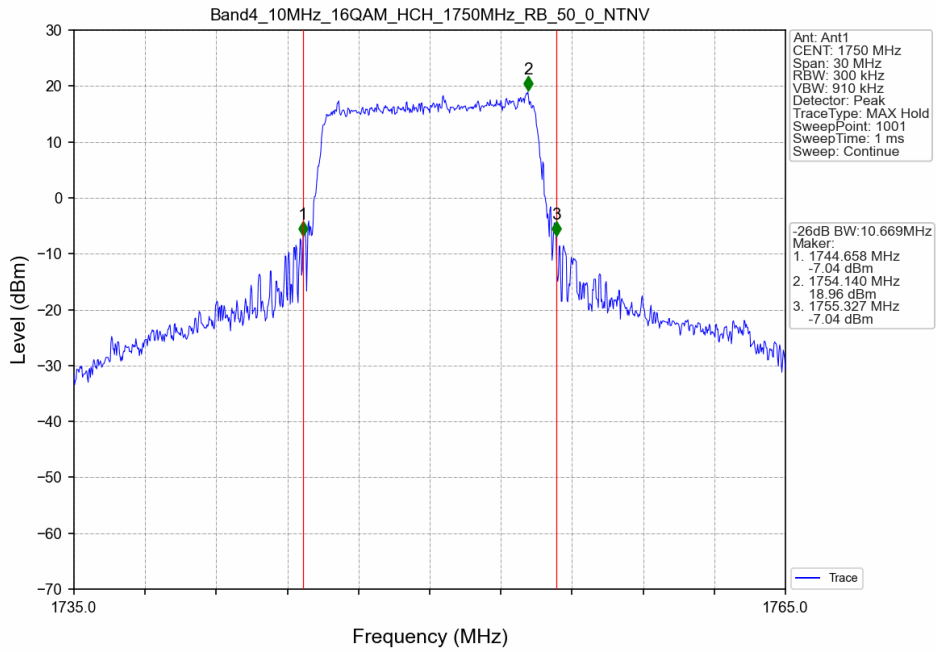
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



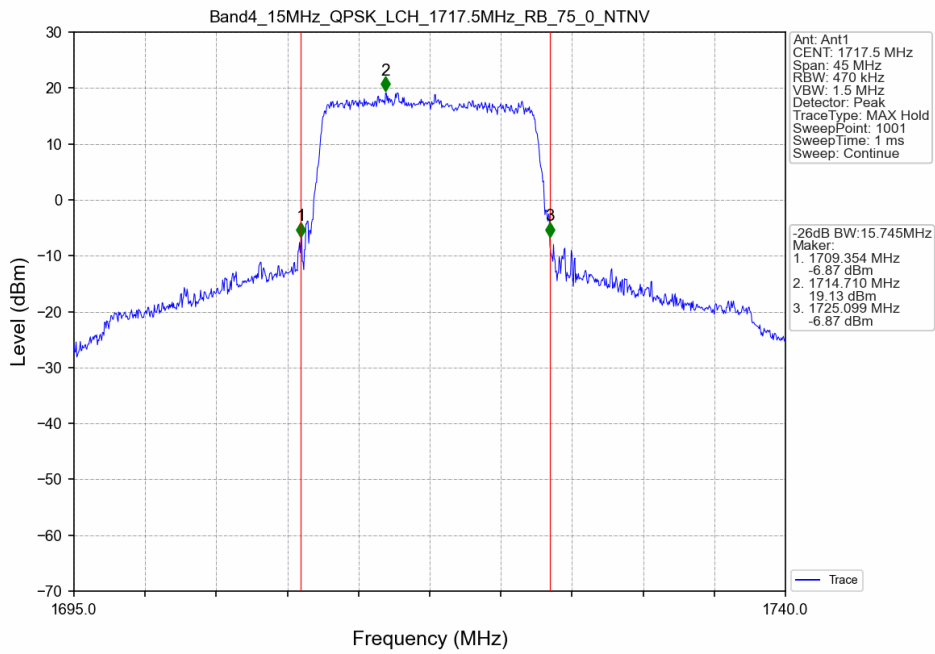
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



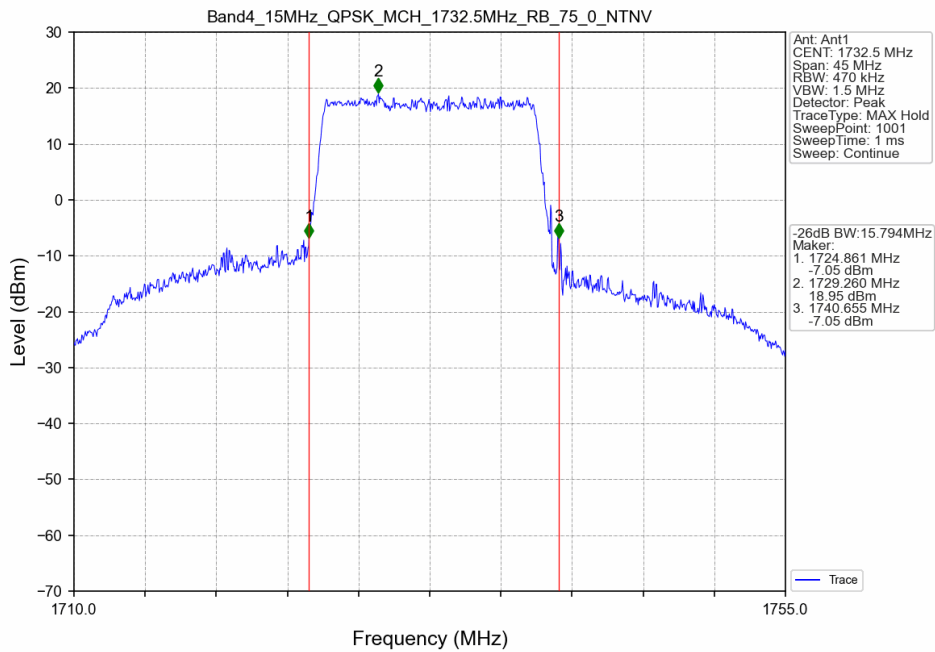
Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_50\_0\_NTNV



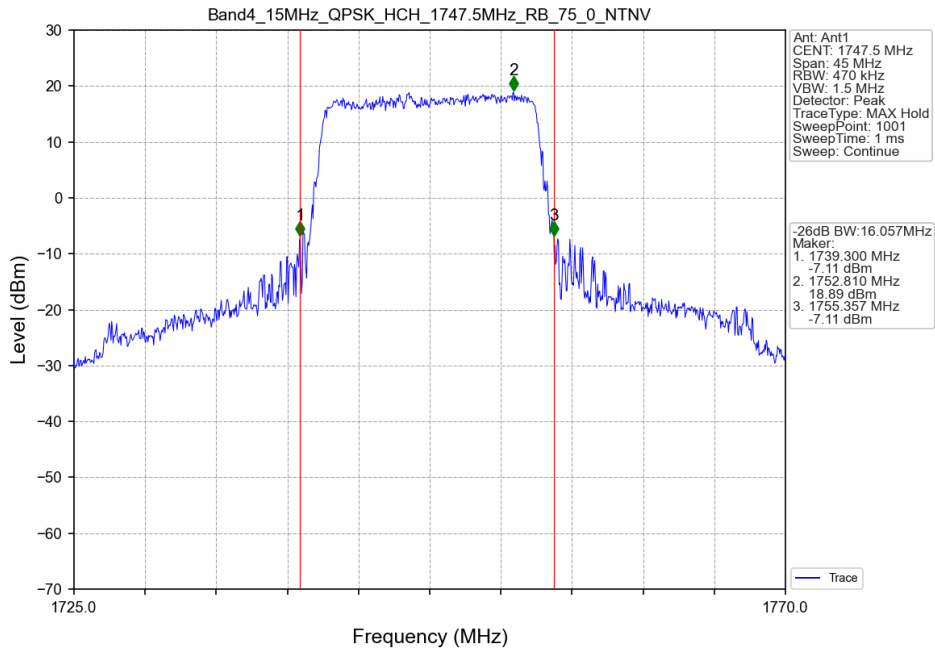
Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



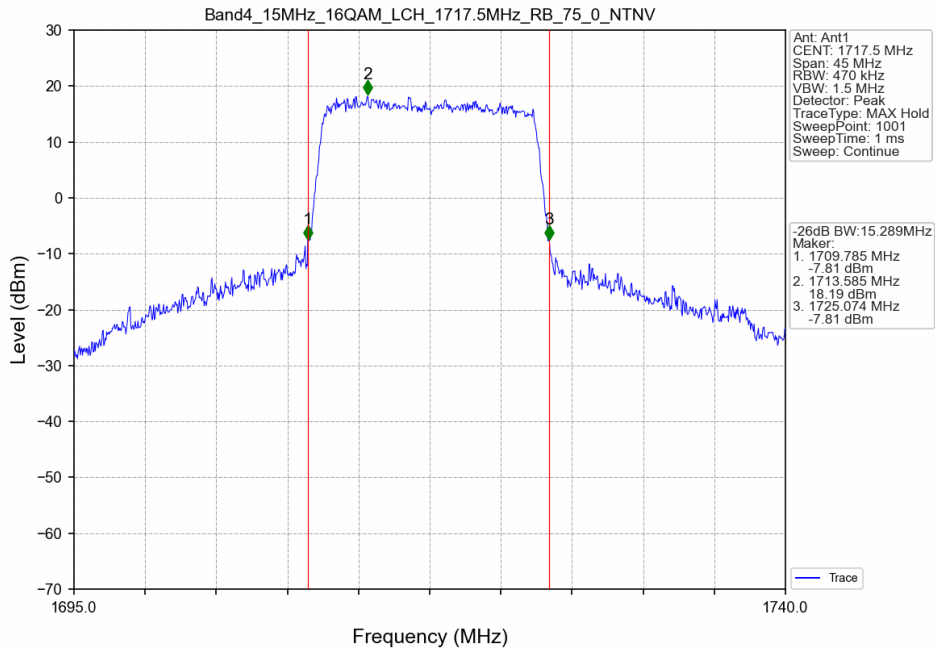
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



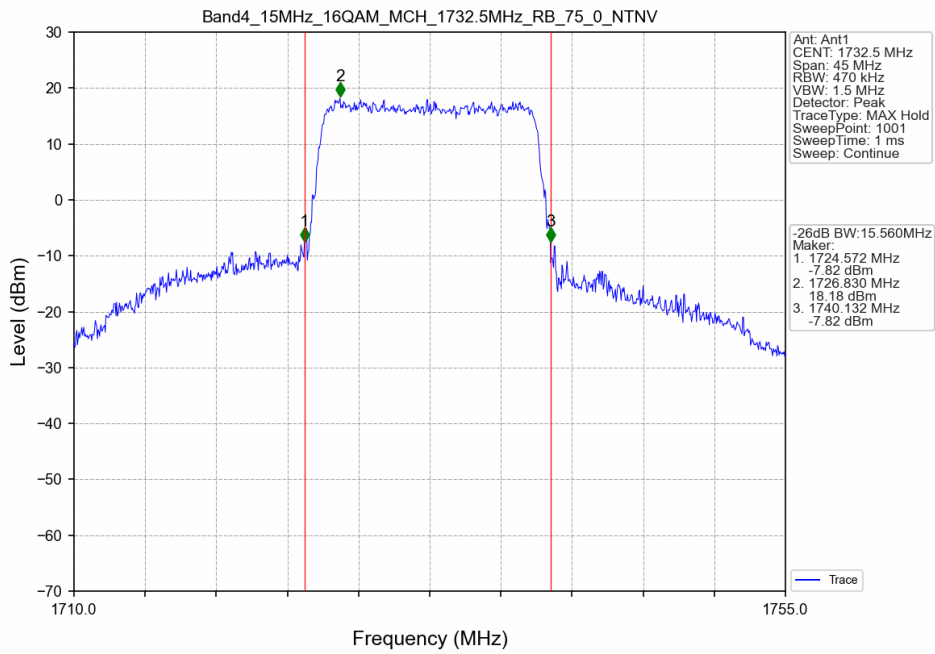
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



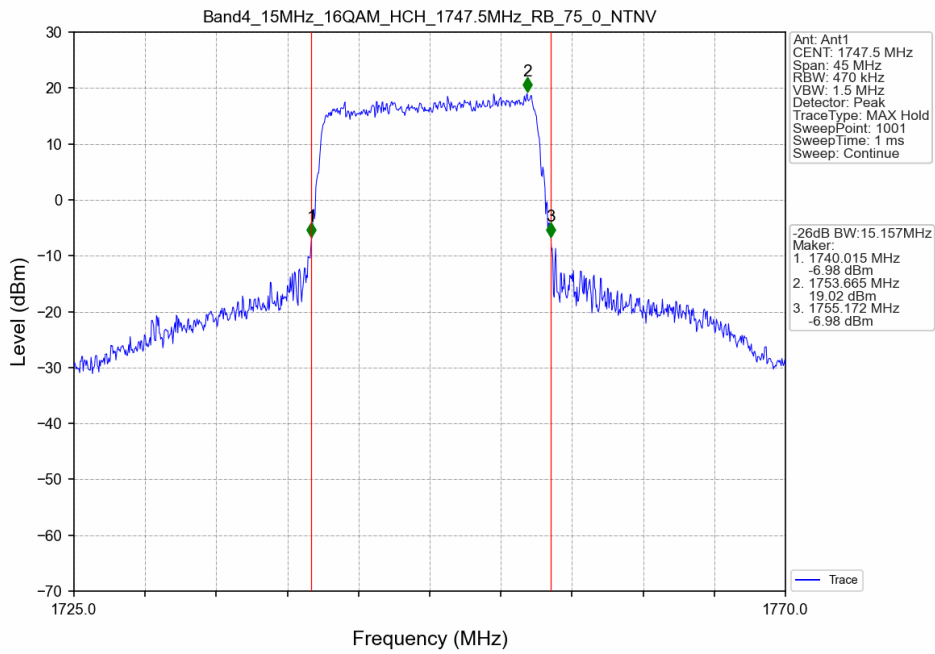
Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



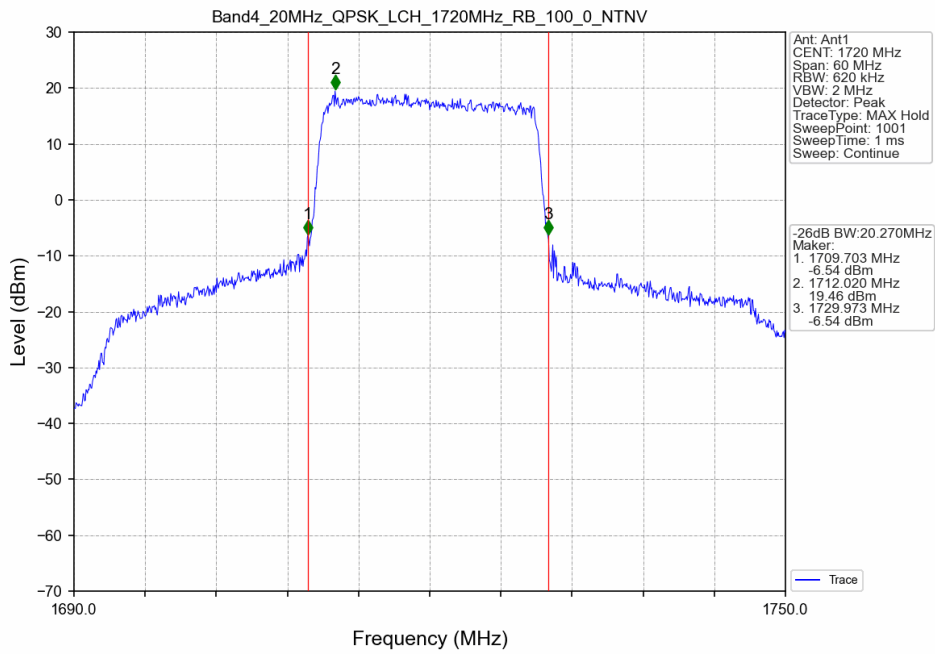
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



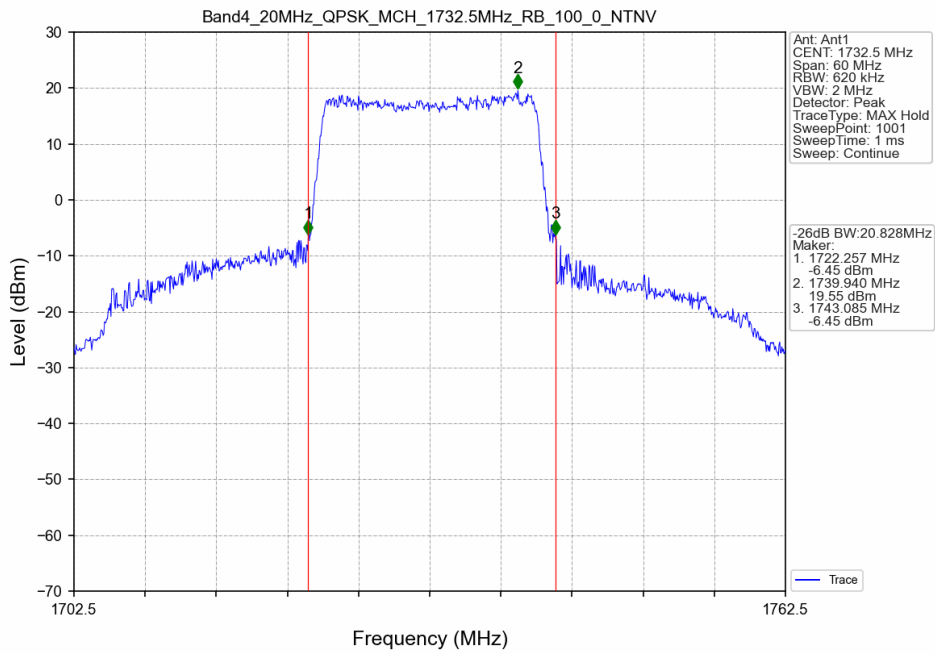
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV

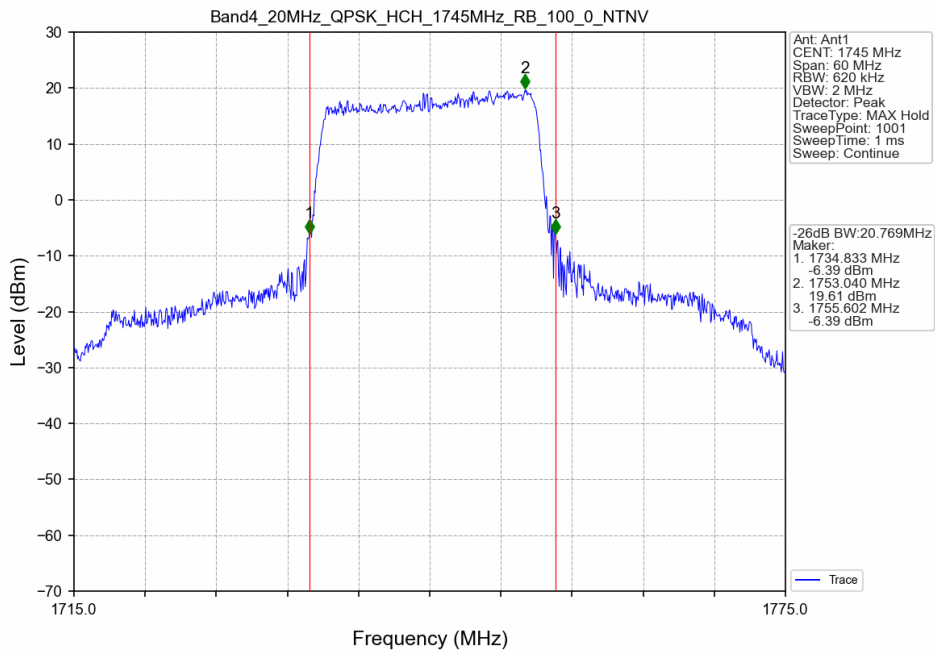


Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV

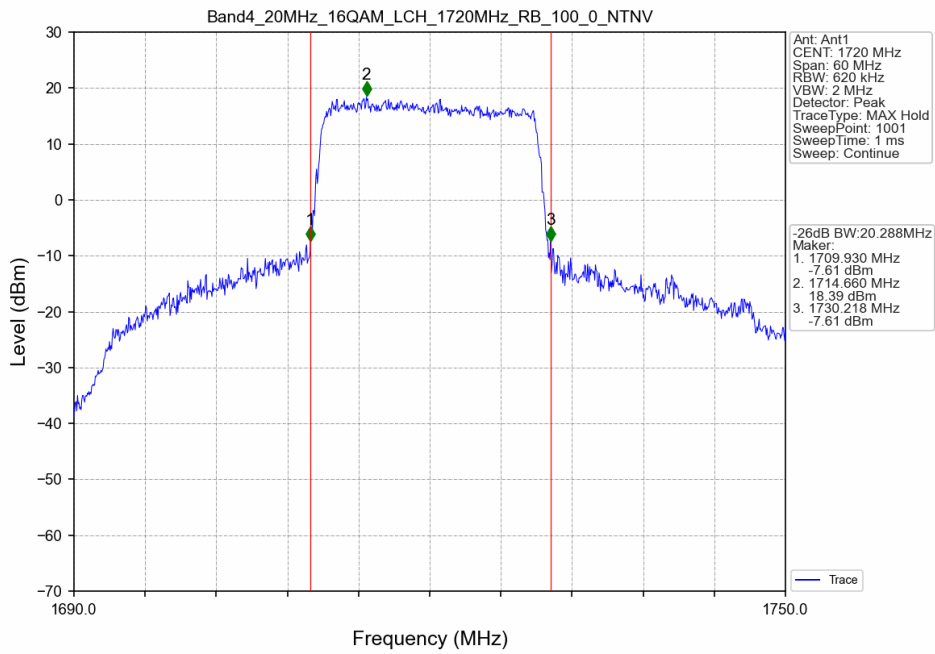




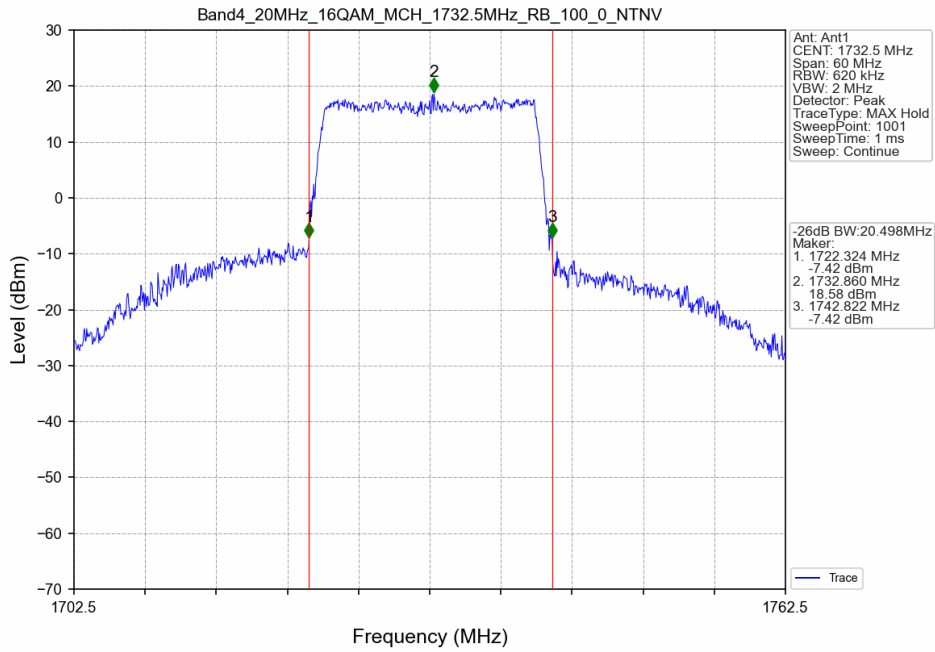
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



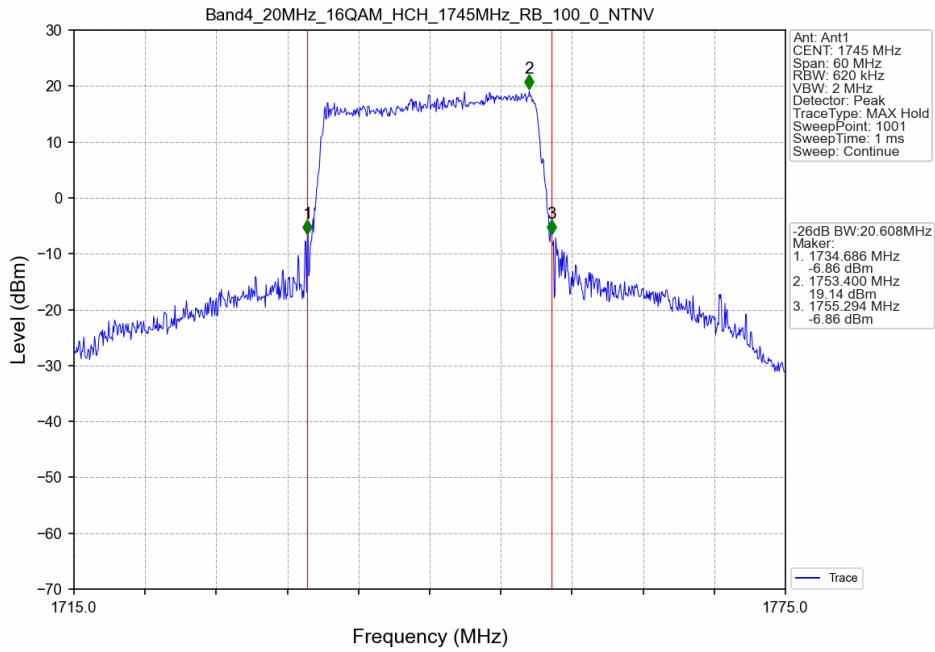
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_100\_0\_NTNV



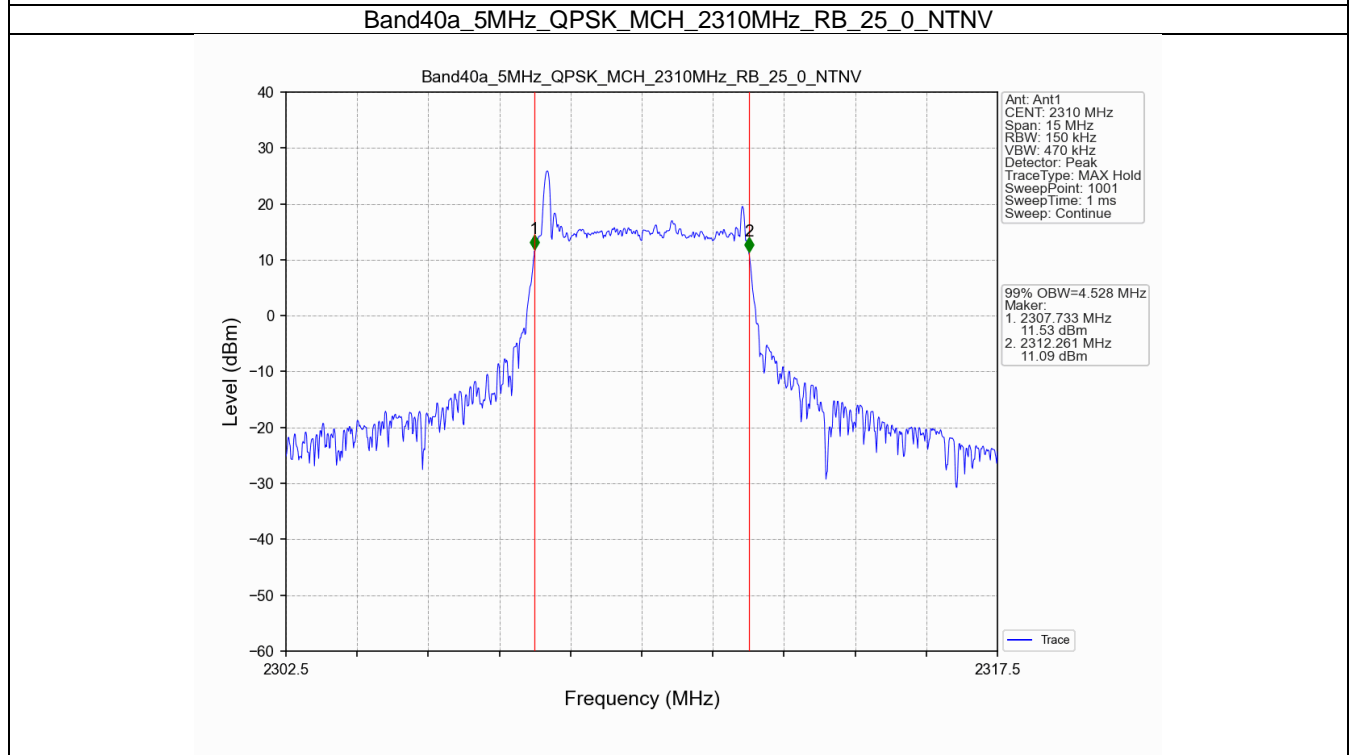
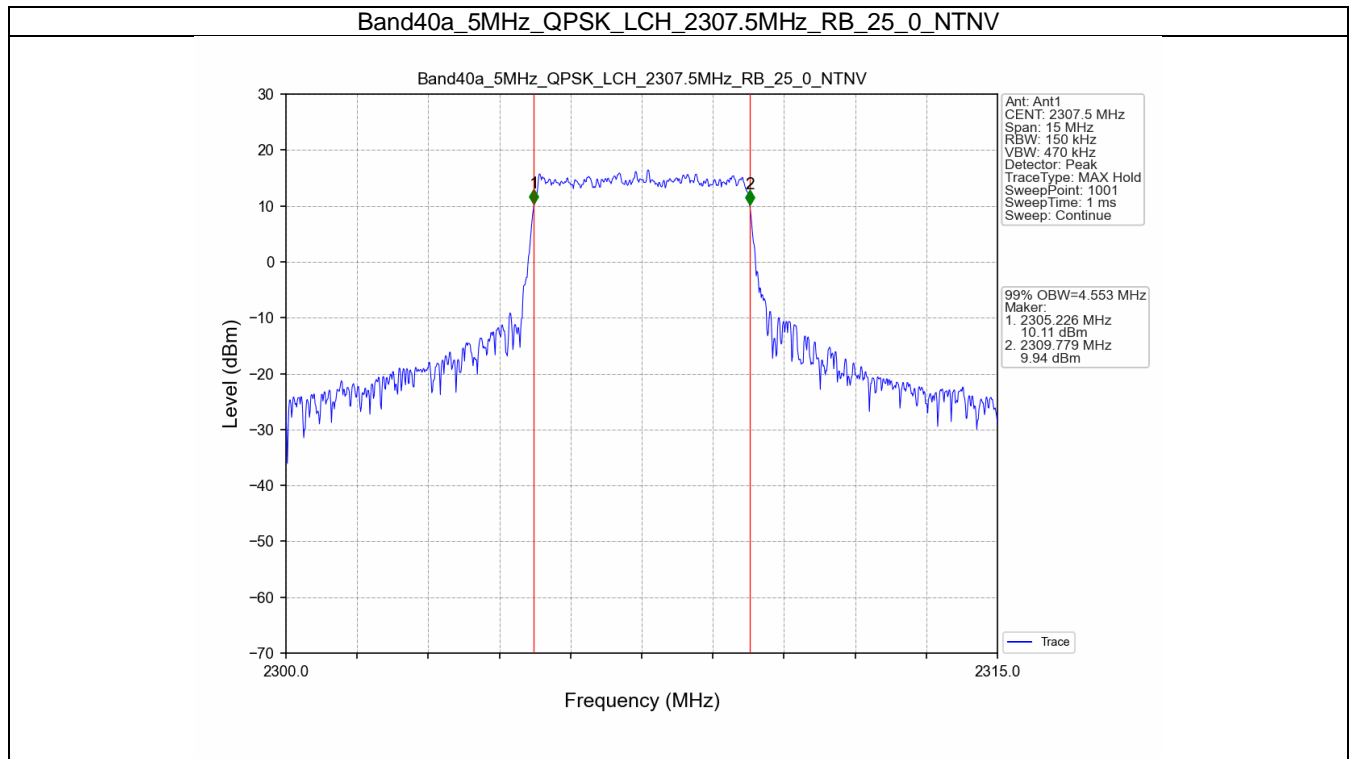
## 10. 99% & 26dB Bandwidth

### 10.1 Band40a\_OBW

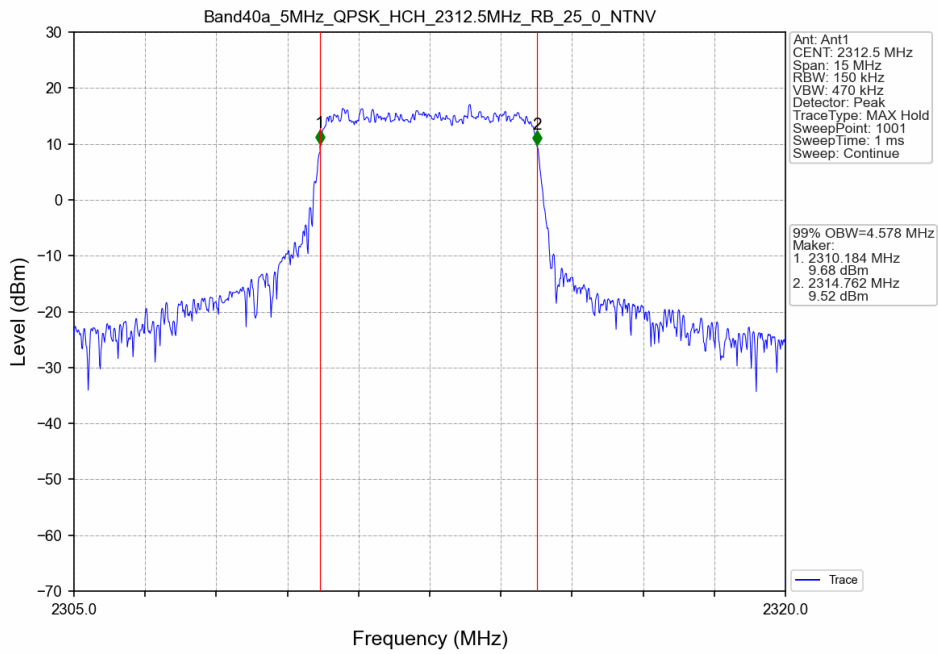
#### 10.1.1 Test Result

Band: 40a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	4.553	/	Pass
		2310	25	0	4.528	/	Pass
		2312.5	25	0	4.578	/	Pass
	16QAM	2307.5	25	0	4.575	/	Pass
		2310	25	0	4.629	/	Pass
		2312.5	25	0	4.554	/	Pass
10	QPSK	2310	50	0	9.072	/	Pass
	16QAM	2310	50	0	8.993	/	Pass

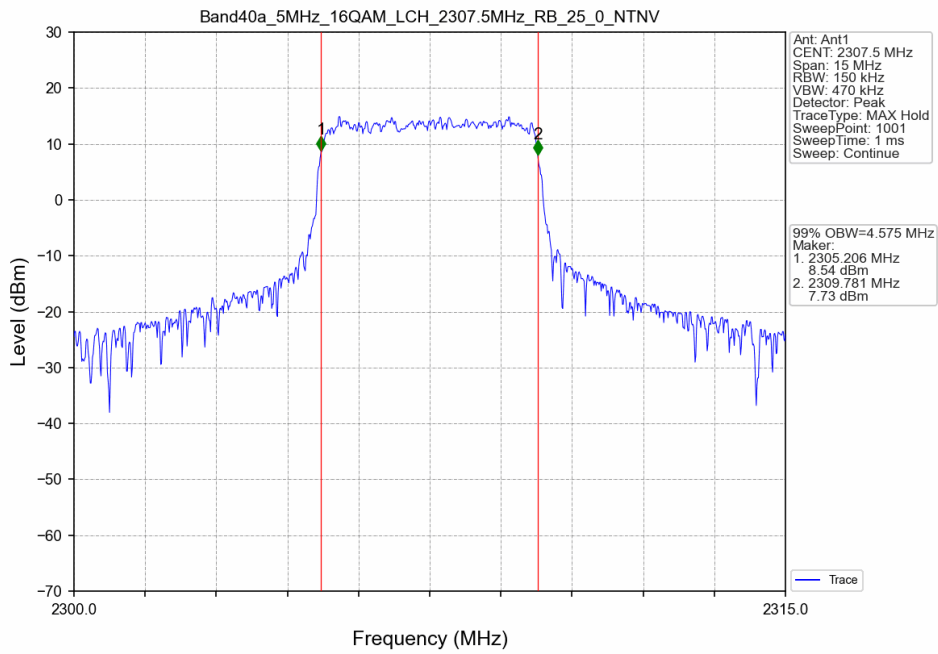
## 10.1.2 Test Graph



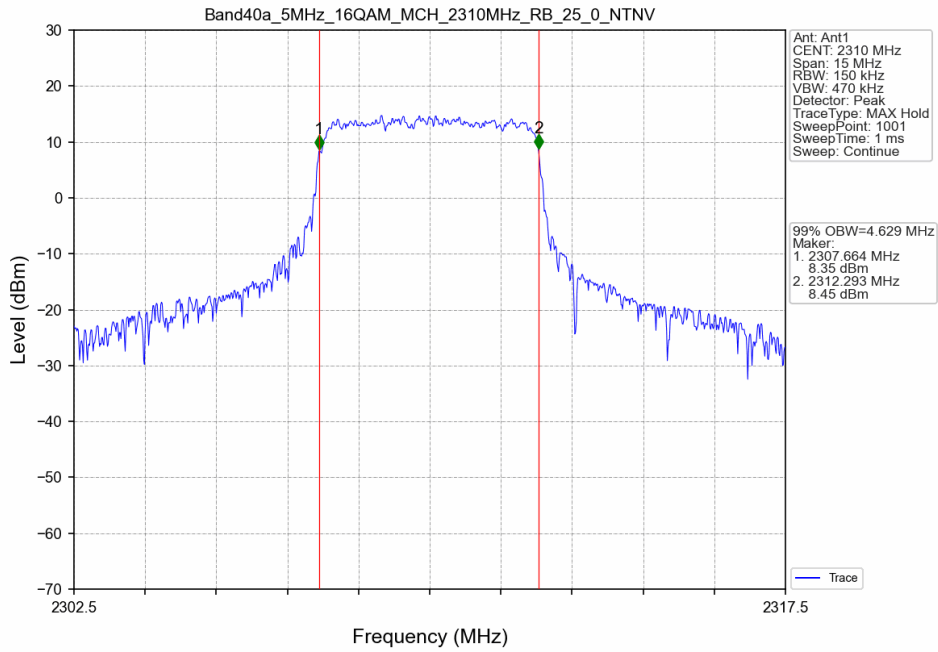
Band40a\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_25\_0\_NTNV



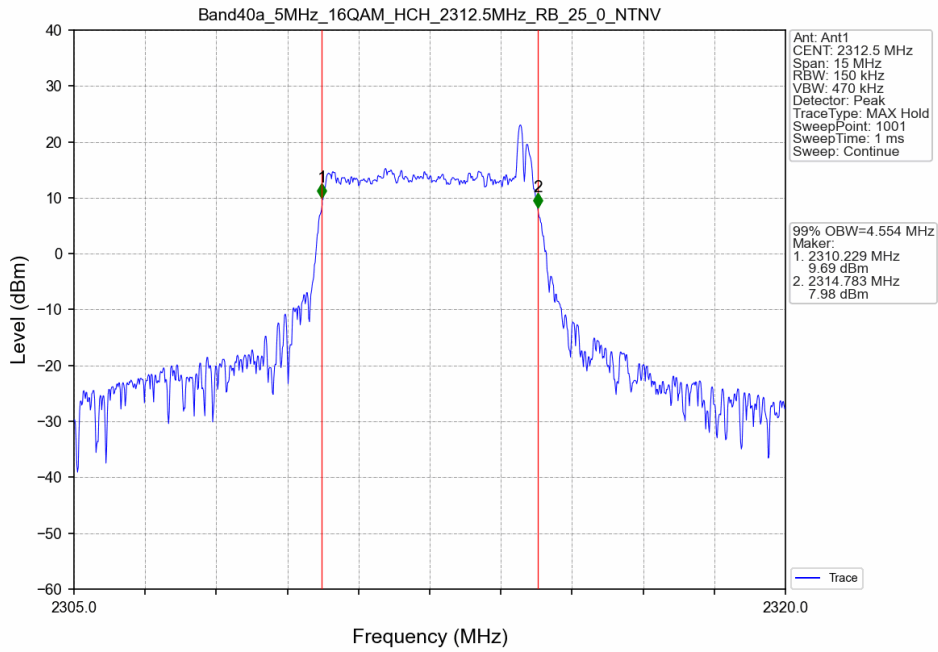
Band40a\_5MHz\_16QAM\_LCH\_2307.5MHz\_RB\_25\_0\_NTNV



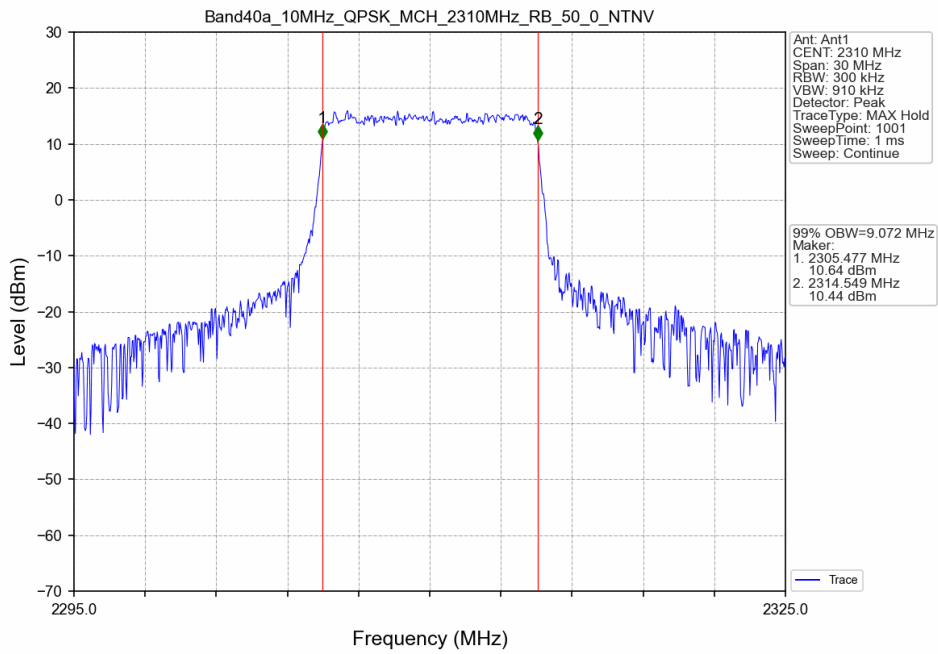
Band40a\_5MHz\_16QAM\_MCH\_2310MHz\_RB\_25\_0\_NTNV



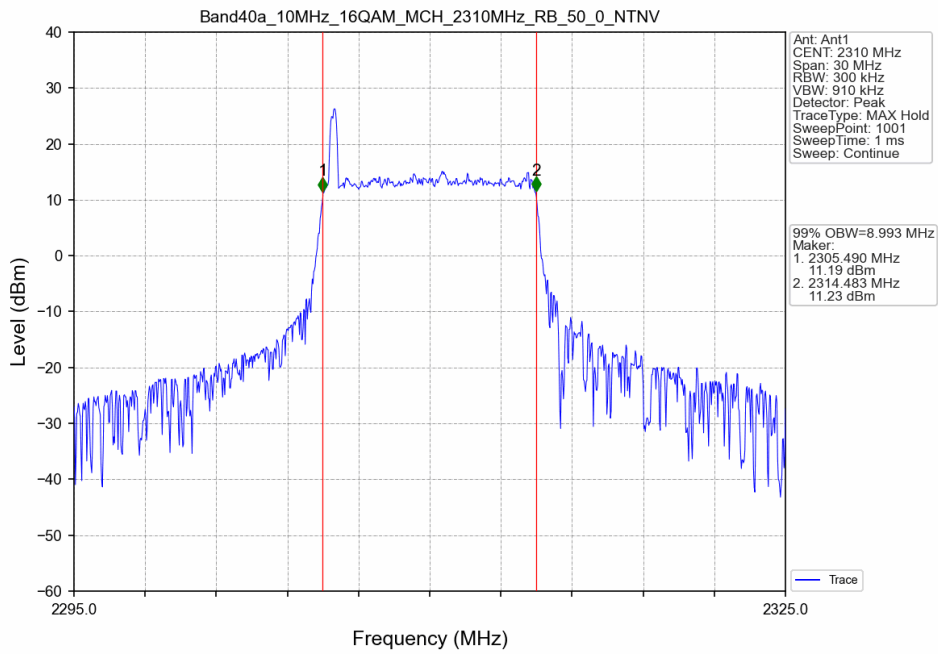
Band40a\_5MHz\_16QAM\_HCH\_2312.5MHz\_RB\_25\_0\_NTNV



Band40a\_10MHz\_QPSK\_MCH\_2310MHz\_RB\_50\_0\_NTNV



Band40a\_10MHz\_16QAM\_MCH\_2310MHz\_RB\_50\_0\_NTNV



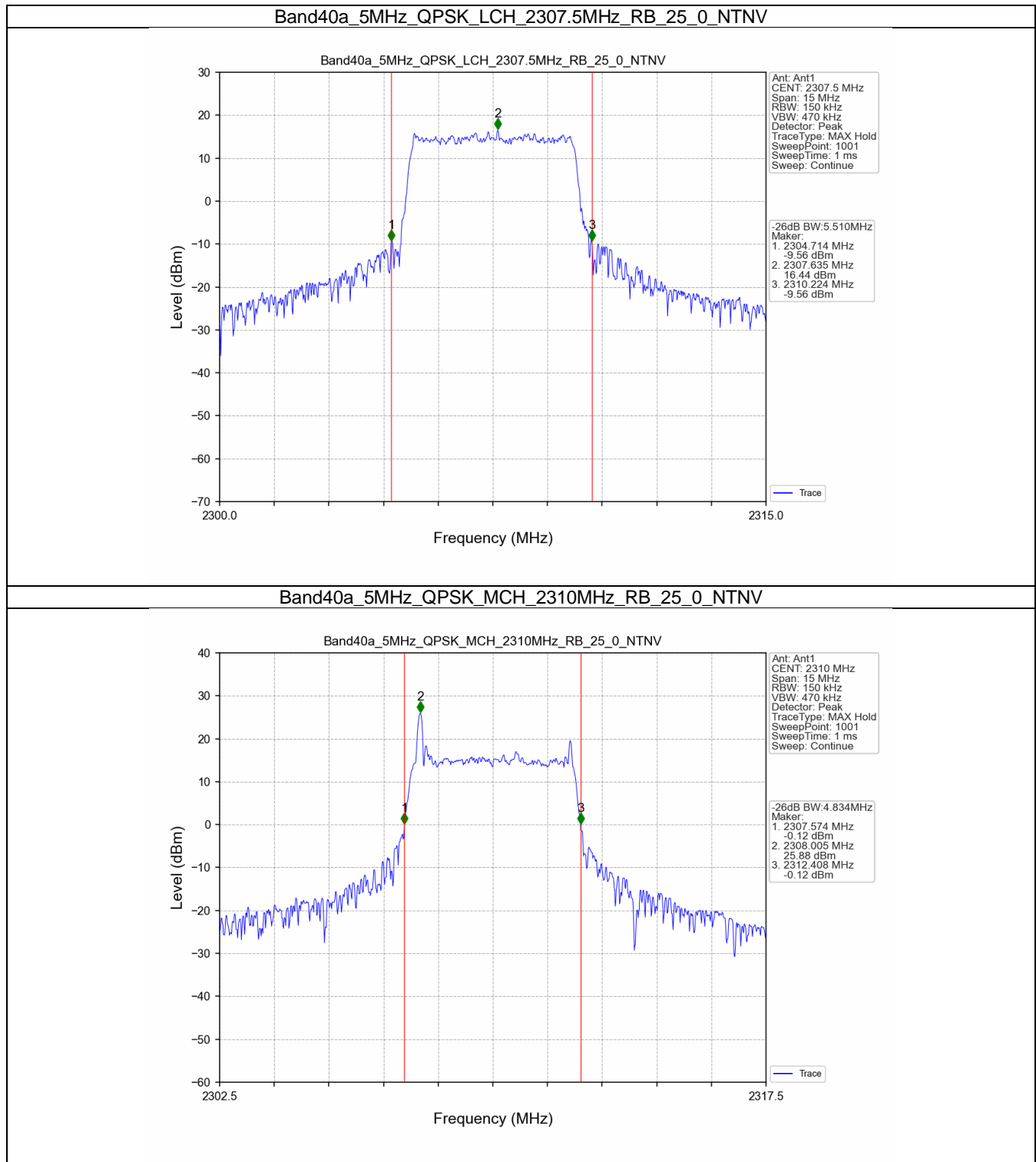
## 10.2 Band40a\_XDB

### 10.2.1 Test Result

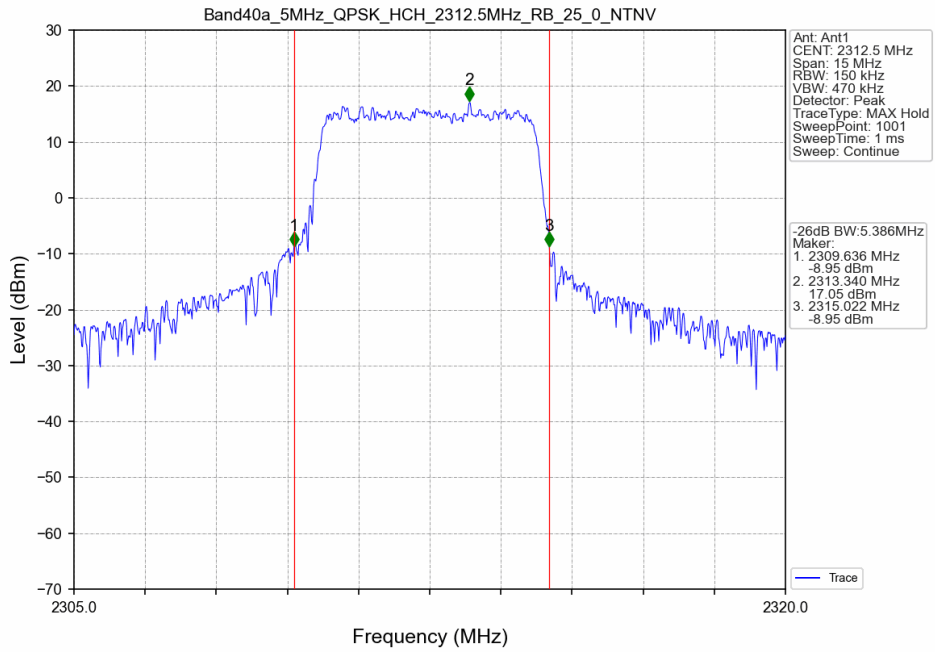
Band: 40a / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.510	/	Pass
		2310	25	0	4.834	/	Pass
		2312.5	25	0	5.386	/	Pass
	16QAM	2307.5	25	0	5.510	/	Pass
		2310	25	0	5.993	/	Pass
		2312.5	25	0	4.914	/	Pass
10	QPSK	2310	50	0	10.321	/	Pass
	16QAM	2310	50	0	9.473	/	Pass



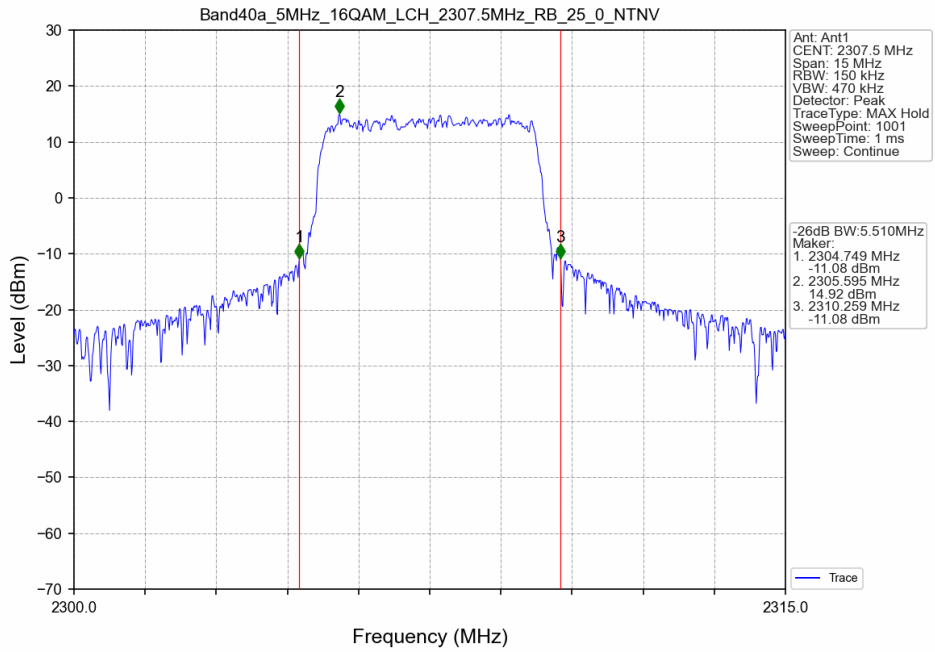
## 10.2.2 Test Graph



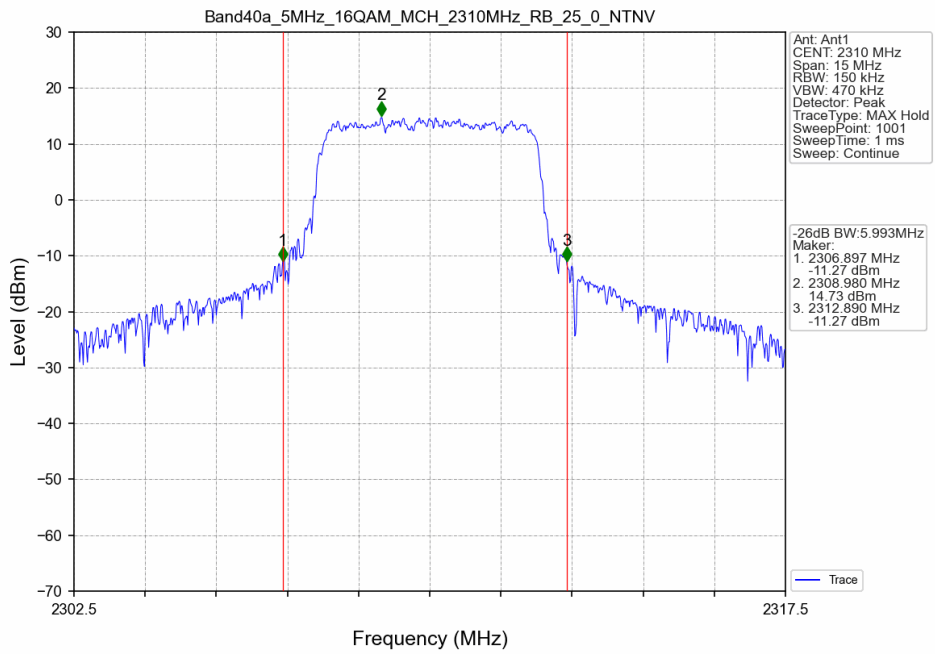
Band40a\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_25\_0\_NTNV



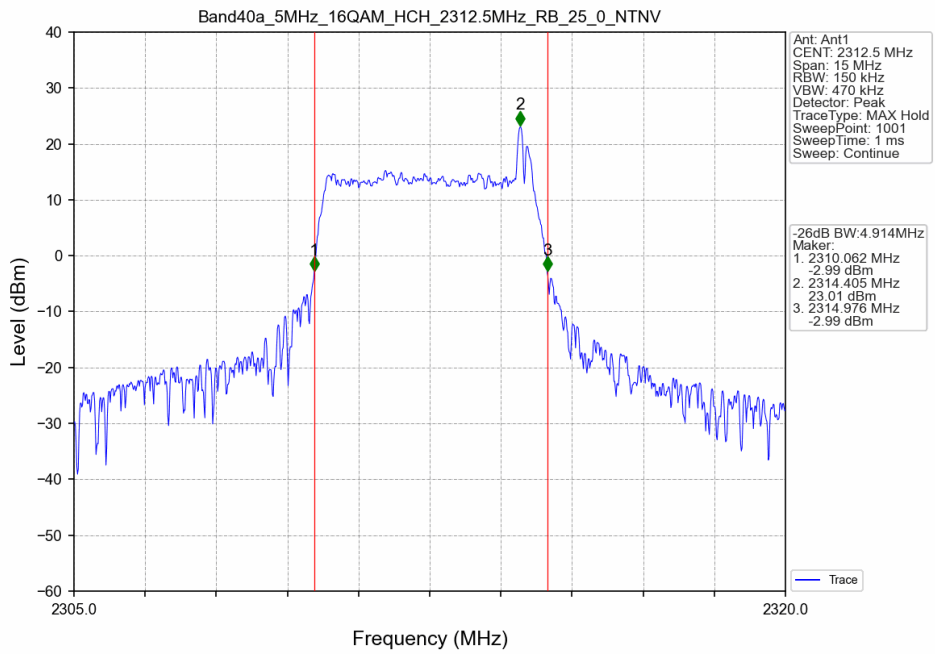
Band40a\_5MHz\_16QAM\_LCH\_2307.5MHz\_RB\_25\_0\_NTNV



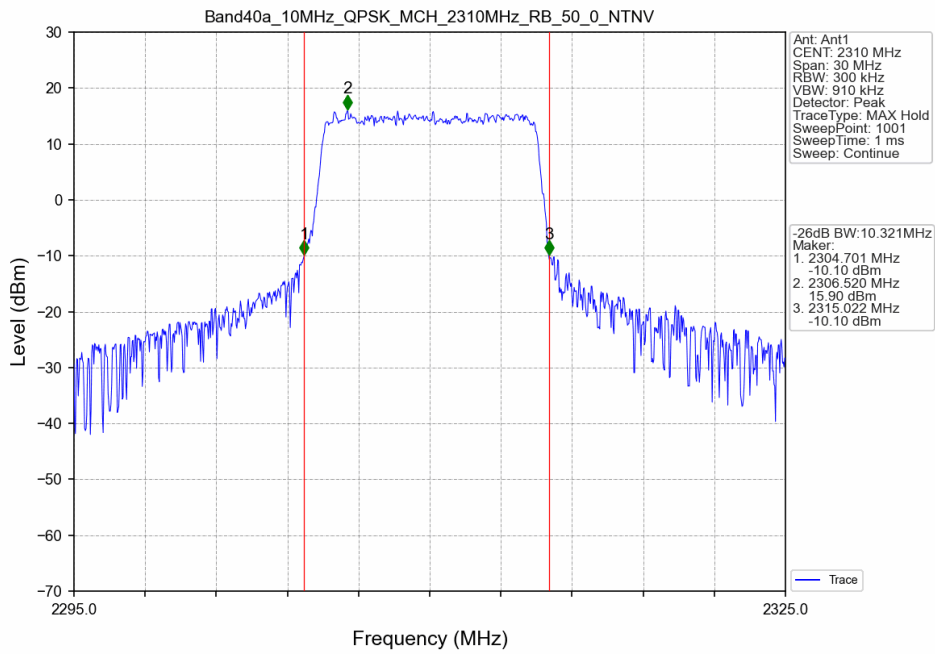
Band40a\_5MHz\_16QAM\_MCH\_2310MHz\_RB\_25\_0\_NTNV



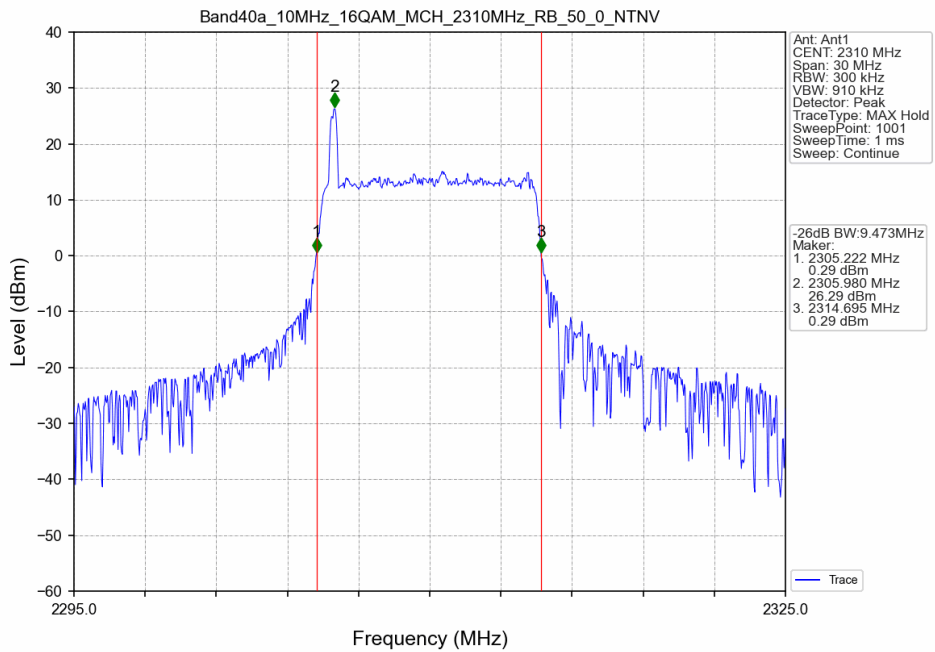
Band40a\_5MHz\_16QAM\_HCH\_2312.5MHz\_RB\_25\_0\_NTNV



Band40a\_10MHz\_QPSK\_MCH\_2310MHz\_RB\_50\_0\_NTNV



Band40a\_10MHz\_16QAM\_MCH\_2310MHz\_RB\_50\_0\_NTNV



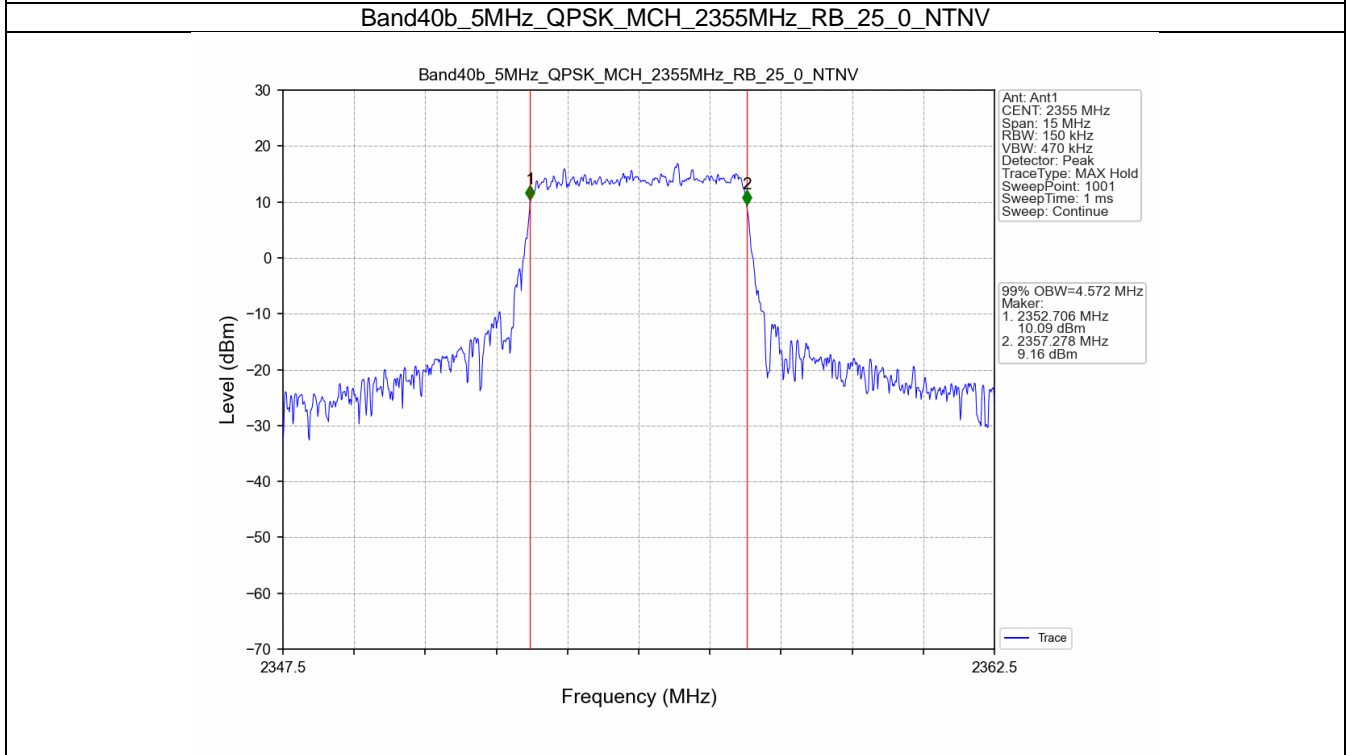
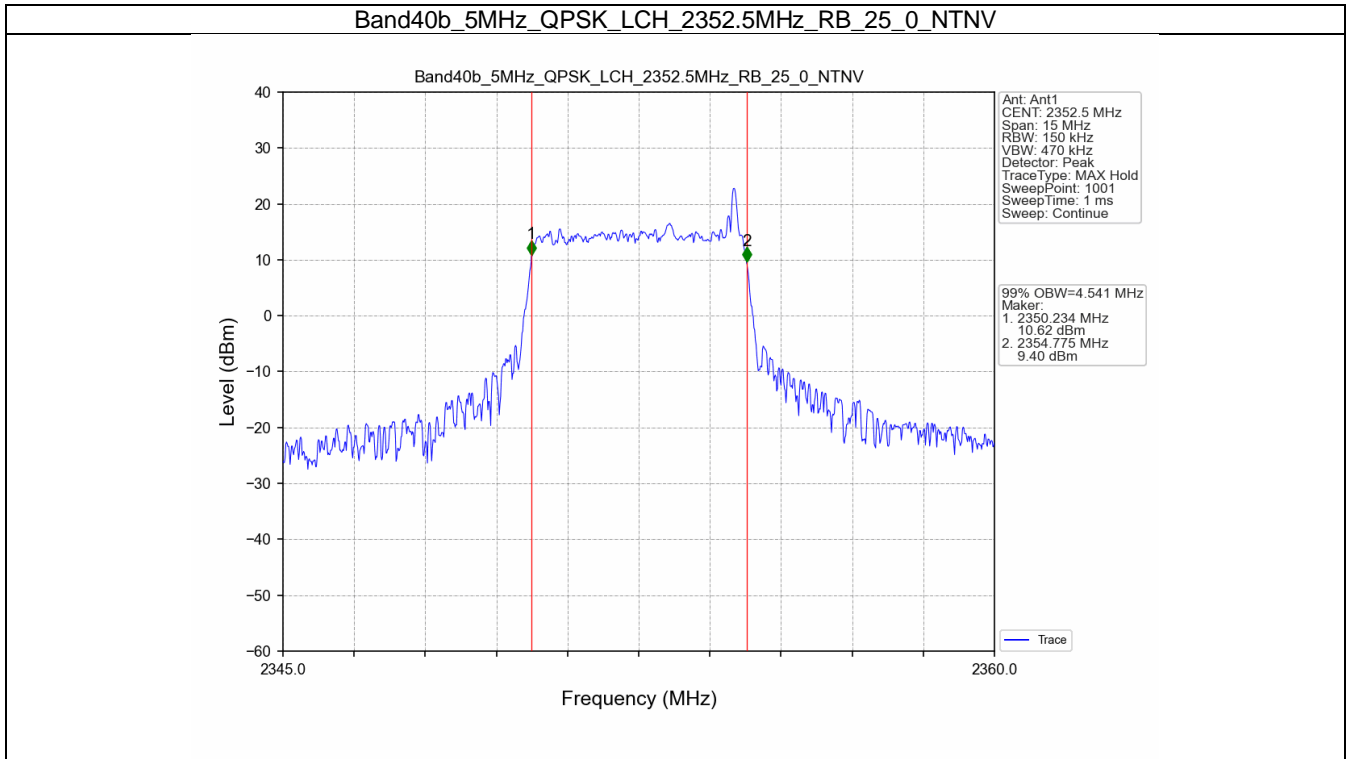
## 11. 99% & 26dB Bandwidth

### 11.1 Band40b\_OBW

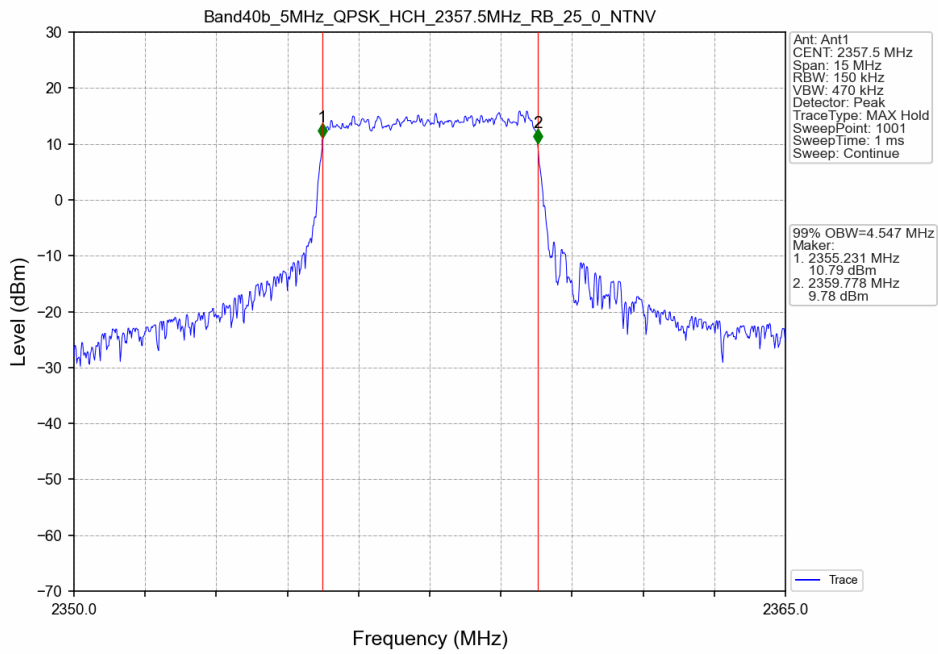
#### 11.1.1 Test Result

Band: 40b / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2352.5	25	0	4.541	/	Pass
		2355	25	0	4.572	/	Pass
		2357.5	25	0	4.547	/	Pass
	16QAM	2352.5	25	0	4.589	/	Pass
		2355	25	0	4.590	/	Pass
		2357.5	25	0	4.584	/	Pass
10	QPSK	2355	50	0	9.071	/	Pass
	16QAM	2355	50	0	9.085	/	Pass

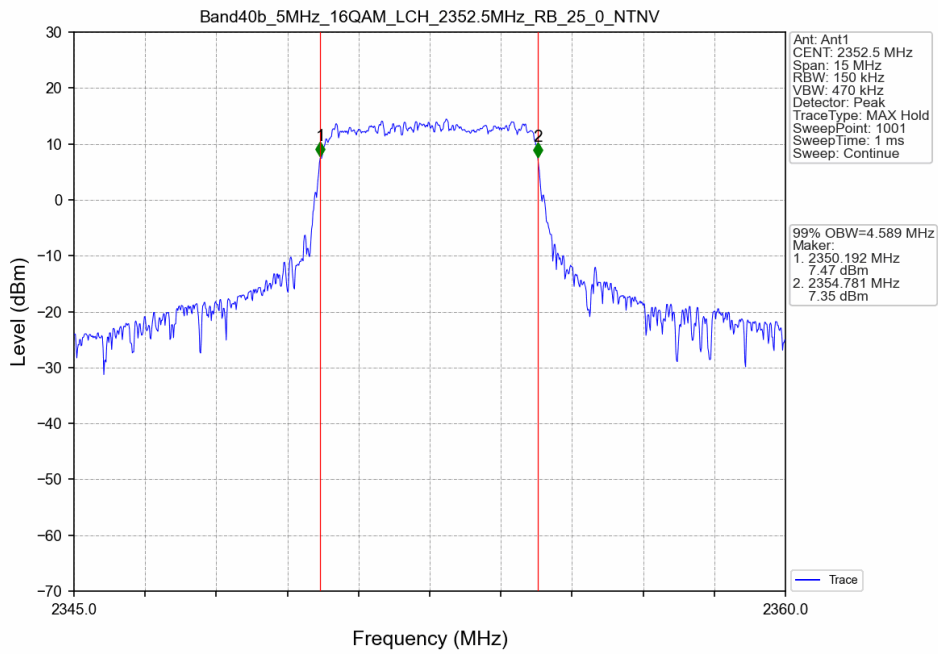
# 11.1.2 Test Graph



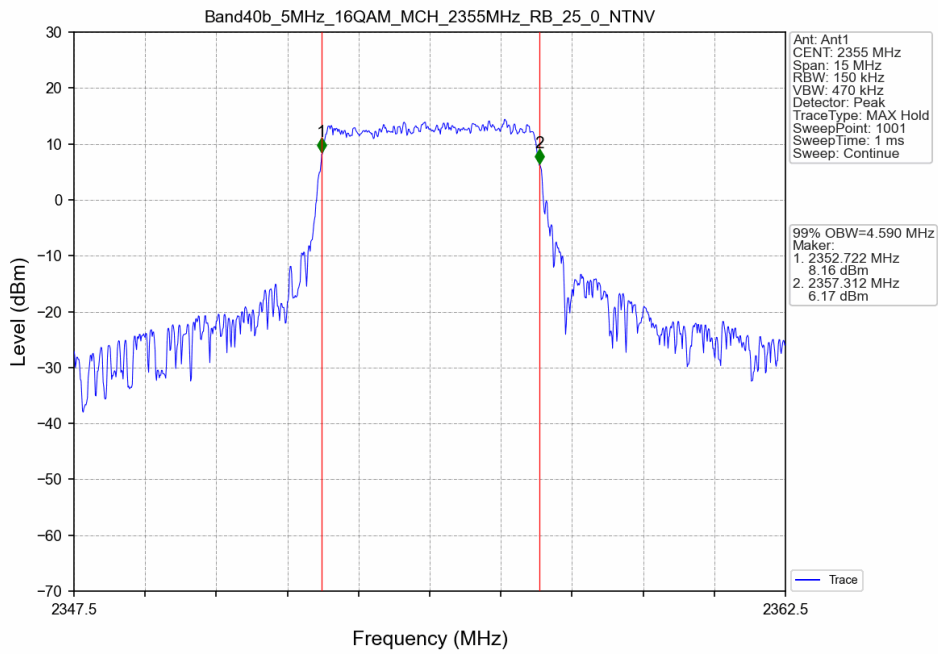
Band40b\_5MHz\_QPSK\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



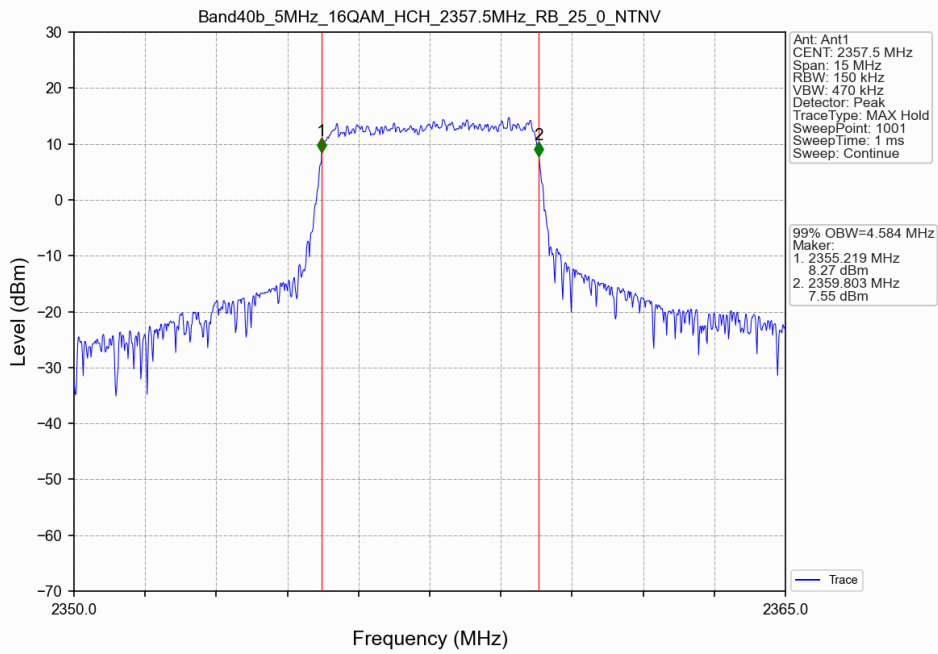
Band40b\_5MHz\_16QAM\_LCH\_2352.5MHz\_RB\_25\_0\_NTNV



Band40b\_5MHz\_16QAM\_MCH\_2355MHz\_RB\_25\_0\_NTNV

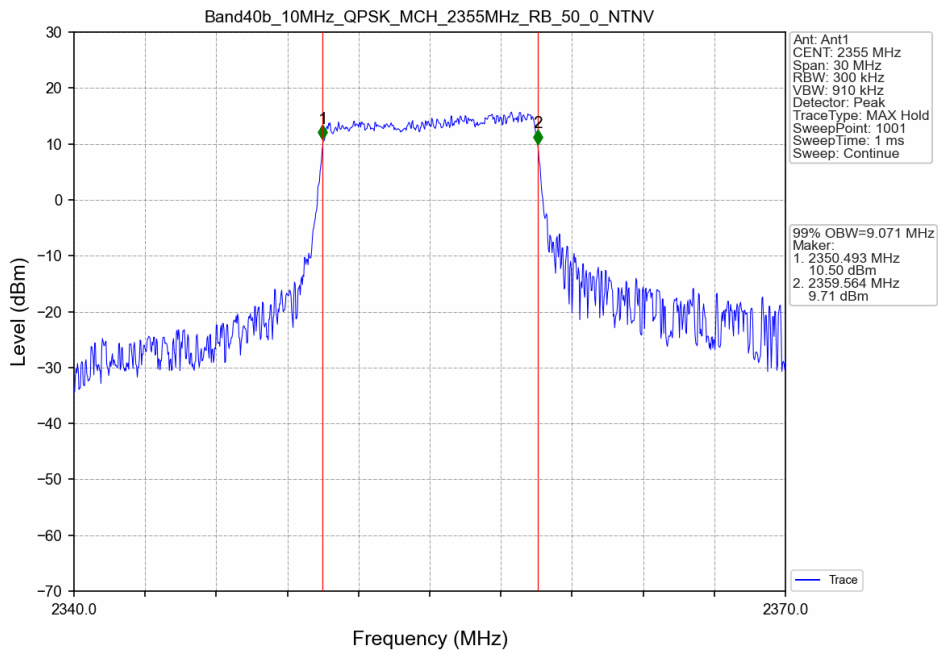


Band40b\_5MHz\_16QAM\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV

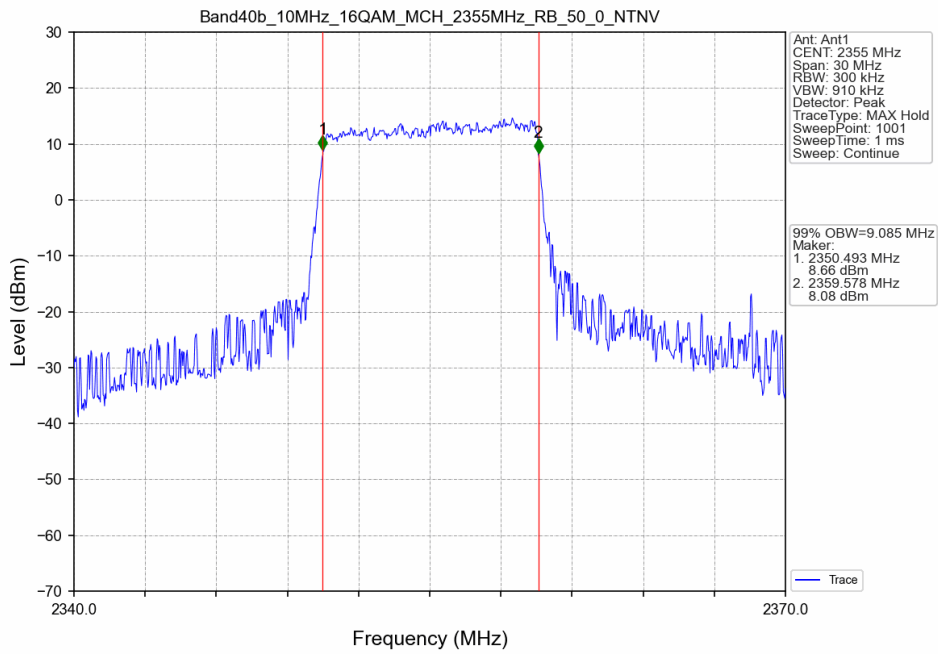




Band40b\_10MHz\_QPSK\_MCH\_2355MHz\_RB\_50\_0\_NTNV



Band40b\_10MHz\_16QAM\_MCH\_2355MHz\_RB\_50\_0\_NTNV

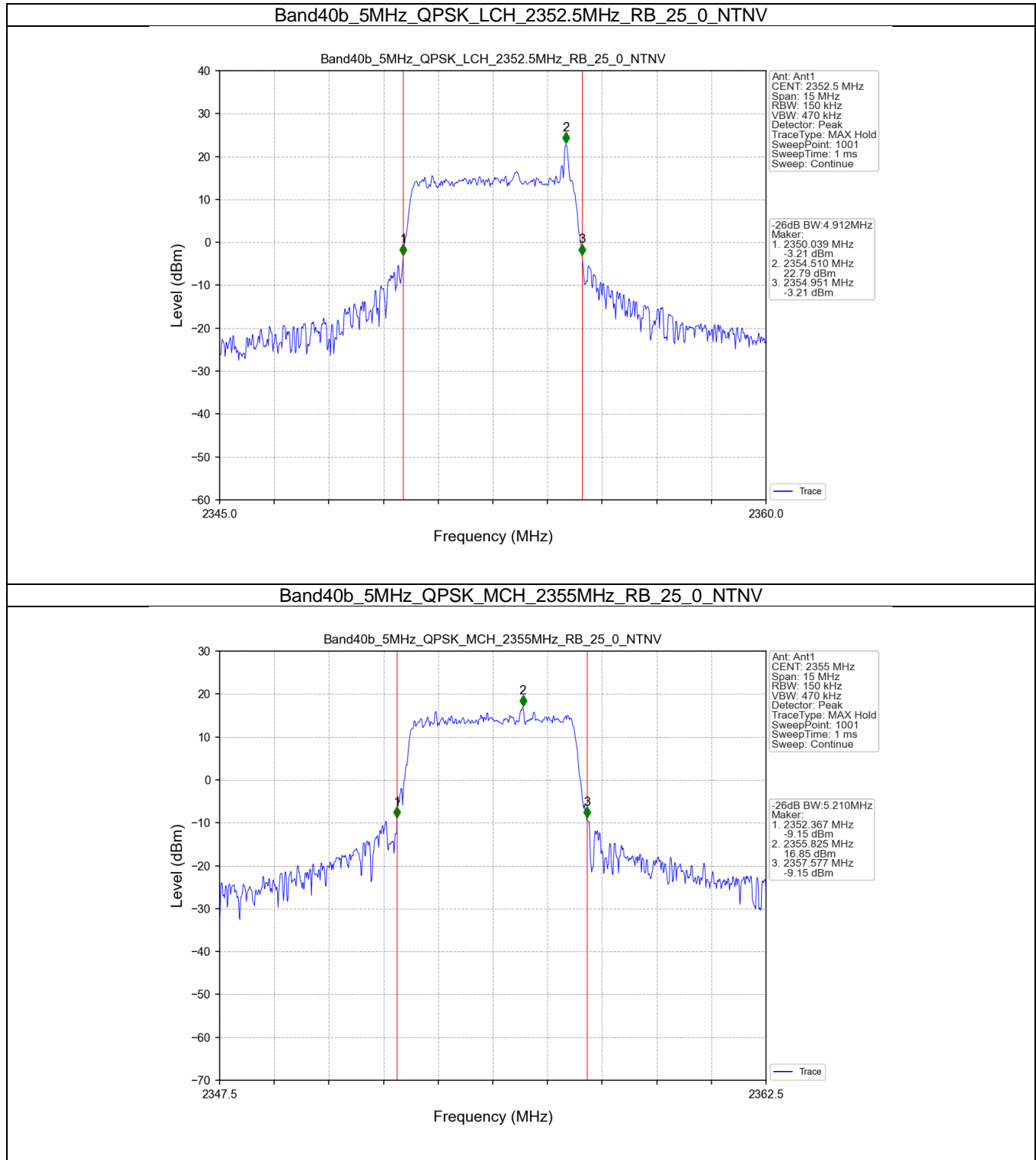


## 11.2 Band40b\_XDB

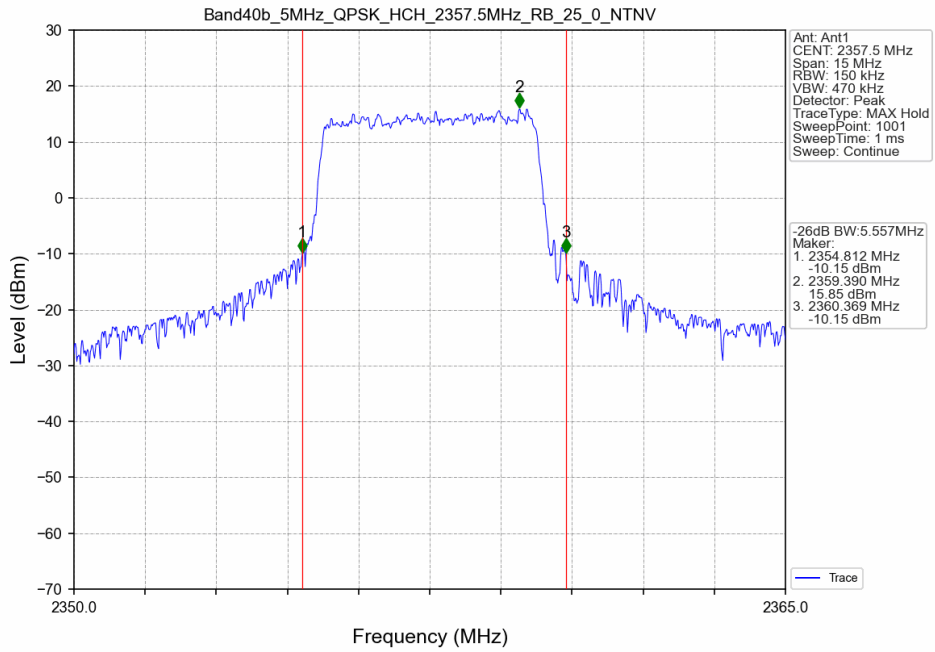
### 11.2.1 Test Result

Band: 40b / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2352.5	25	0	4.912	/	Pass
		2355	25	0	5.210	/	Pass
		2357.5	25	0	5.557	/	Pass
	16QAM	2352.5	25	0	5.917	/	Pass
		2355	25	0	5.539	/	Pass
		2357.5	25	0	5.478	/	Pass
10	QPSK	2355	50	0	11.384	/	Pass
	16QAM	2355	50	0	10.243	/	Pass

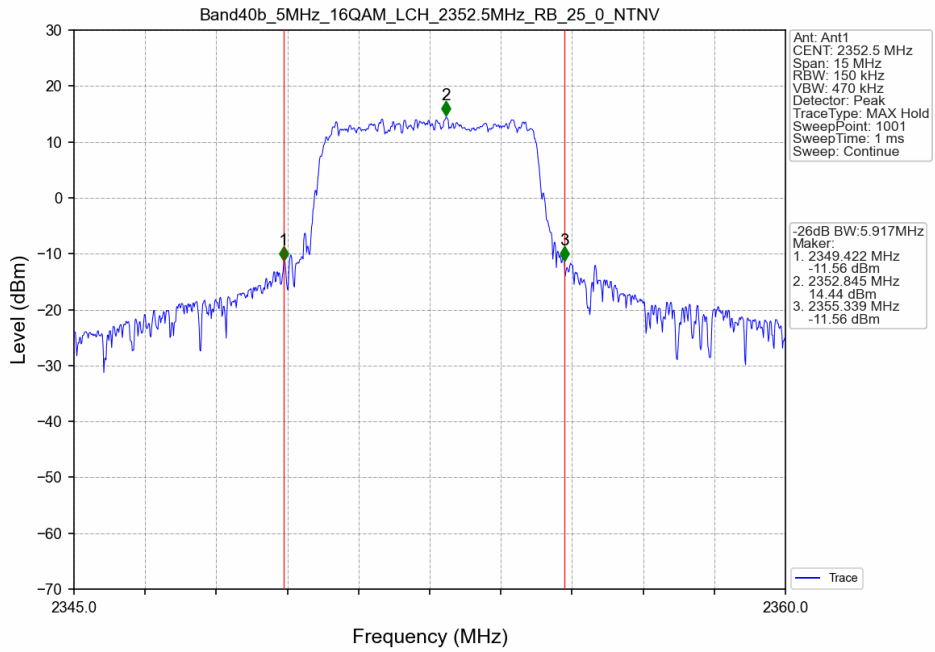
## 11.2.2 Test Graph



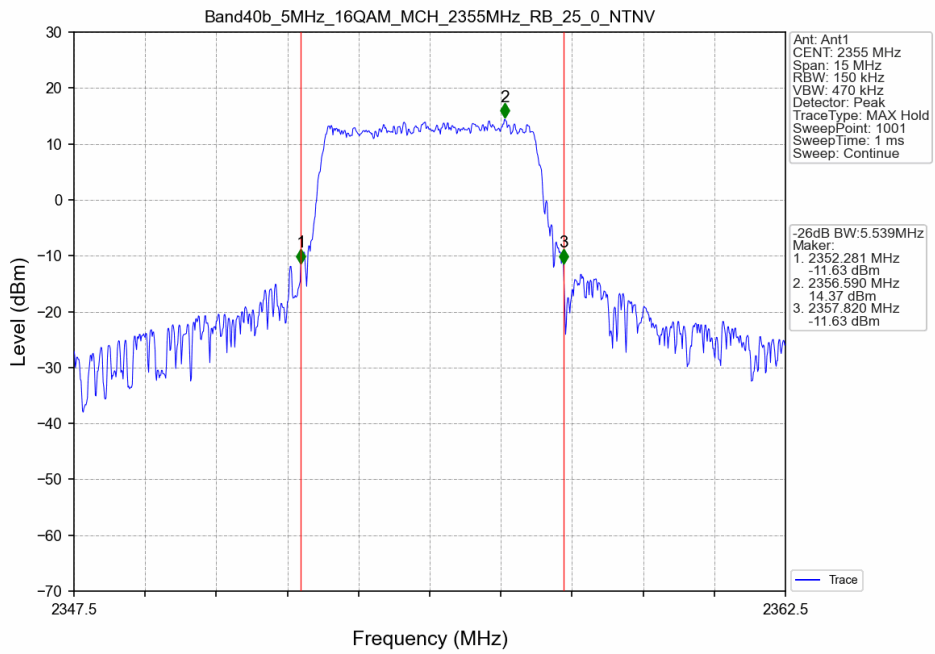
Band40b\_5MHz\_QPSK\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



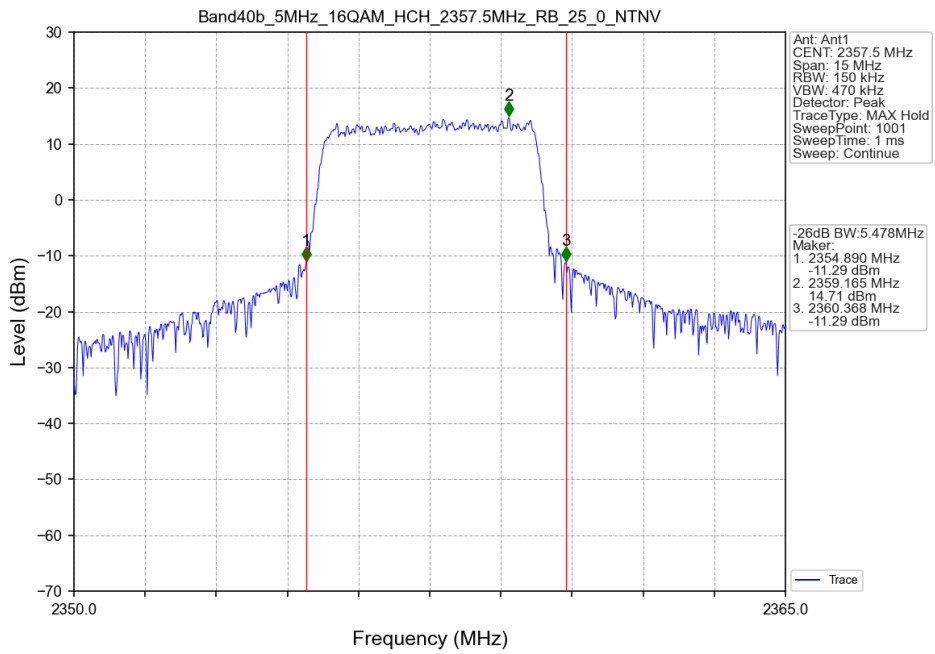
Band40b\_5MHz\_16QAM\_LCH\_2352.5MHz\_RB\_25\_0\_NTNV



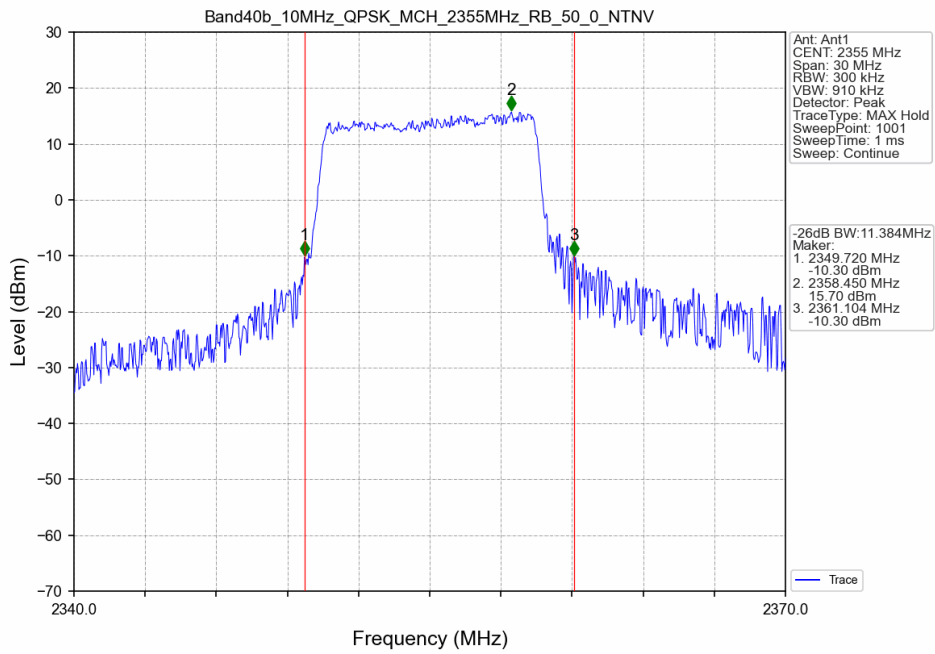
Band40b\_5MHz\_16QAM\_MCH\_2355MHz\_RB\_25\_0\_NTNV



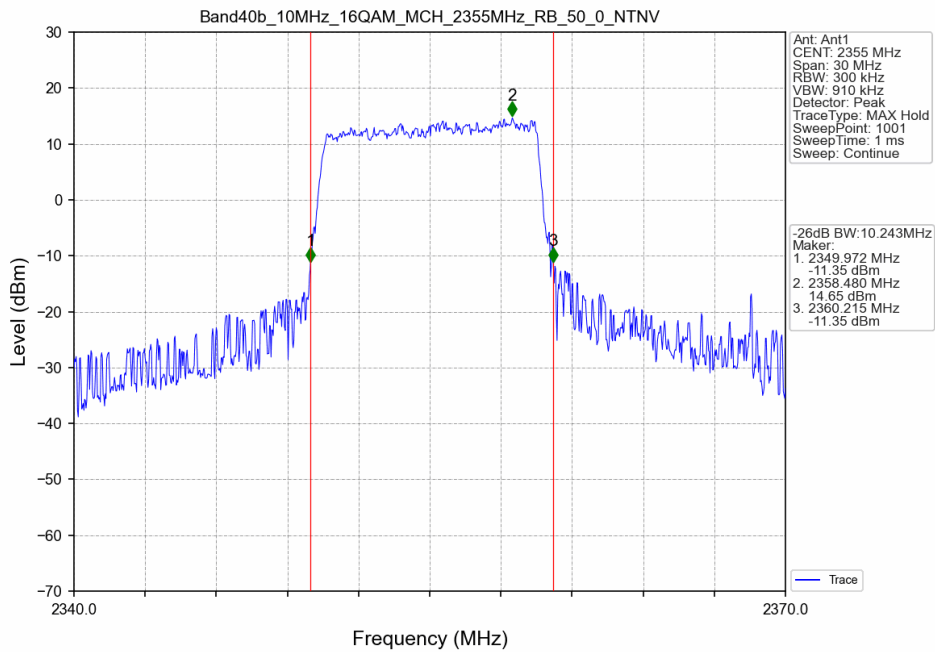
Band40b\_5MHz\_16QAM\_HCH\_2357.5MHz\_RB\_25\_0\_NTNV



Band40b\_10MHz\_QPSK\_MCH\_2355MHz\_RB\_50\_0\_NTNV



Band40b\_10MHz\_16QAM\_MCH\_2355MHz\_RB\_50\_0\_NTNV



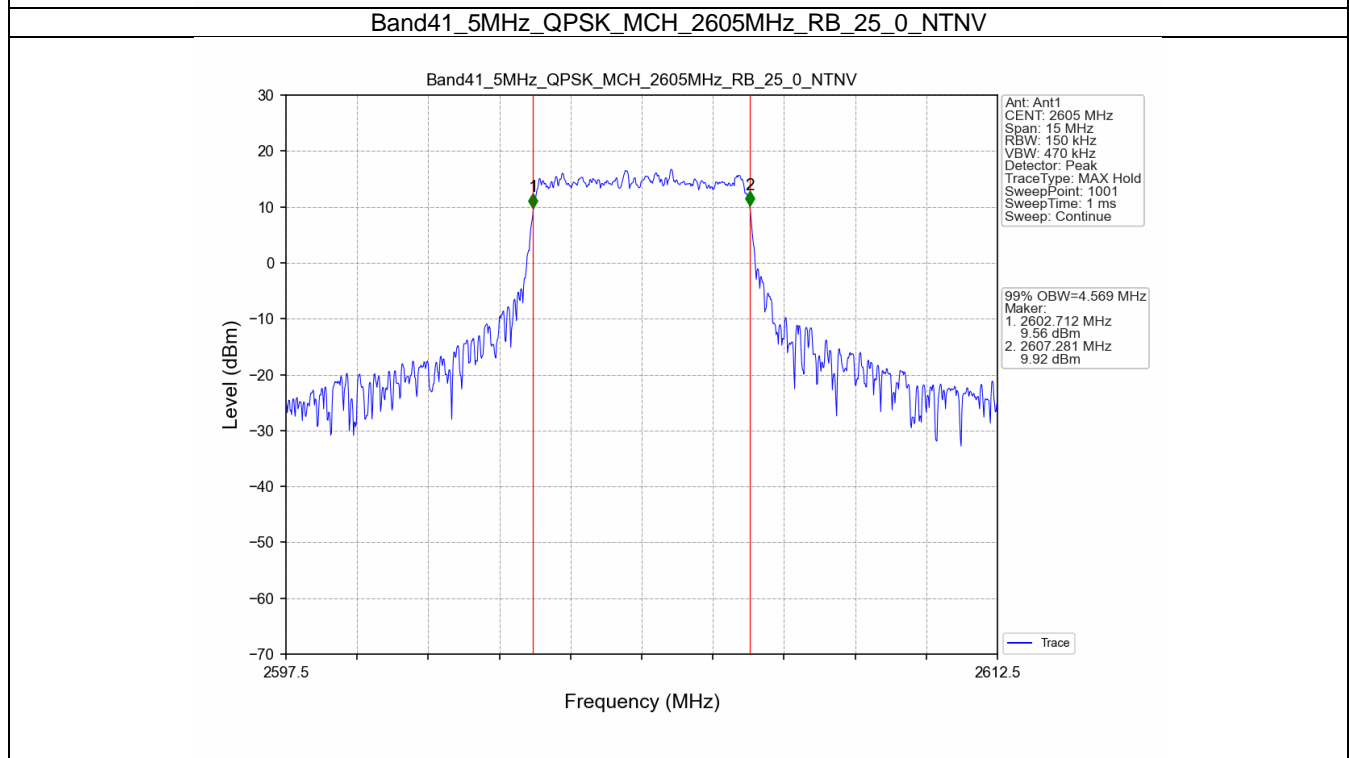
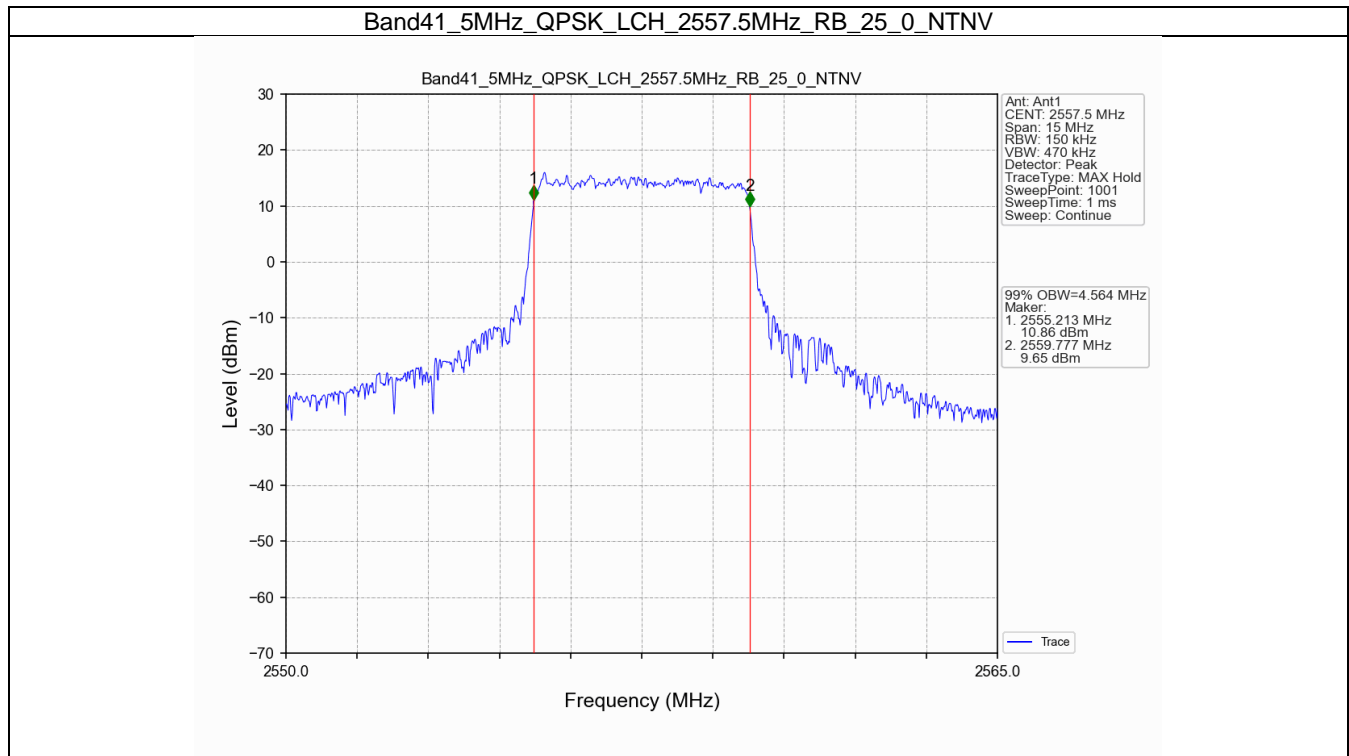
## 12. 99% & 26dB Bandwidth

### 12.1 Band41\_OBW

#### 12.1.1 Test Result

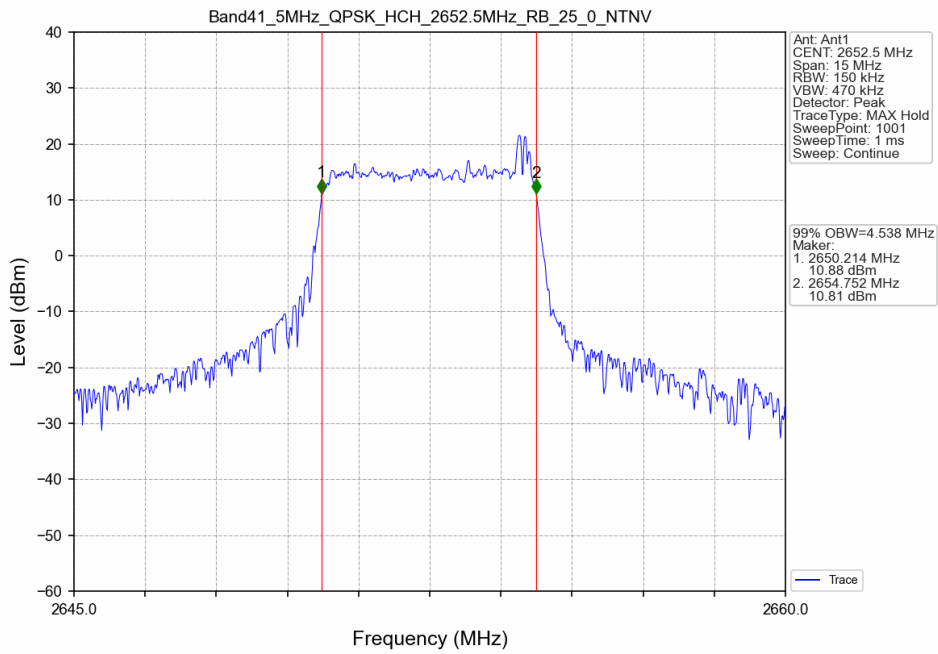
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2557.5	25	0	4.564	/	Pass
		2605	25	0	4.569	/	Pass
		2652.5	25	0	4.538	/	Pass
	16QAM	2557.5	25	0	4.591	/	Pass
		2605	25	0	4.577	/	Pass
		2652.5	25	0	4.591	/	Pass
10	QPSK	2560	50	0	9.052	/	Pass
		2605	50	0	9.077	/	Pass
		2650	50	0	9.140	/	Pass
	16QAM	2560	50	0	9.097	/	Pass
		2605	50	0	8.974	/	Pass
		2650	50	0	9.086	/	Pass
15	QPSK	2562.5	75	0	13.651	/	Pass
		2605	75	0	13.553	/	Pass
		2647.5	75	0	13.617	/	Pass
	16QAM	2562.5	75	0	13.623	/	Pass
		2605	75	0	13.473	/	Pass
		2647.5	75	0	13.636	/	Pass
20	QPSK	2565	100	0	18.193	/	Pass
		2605	100	0	18.084	/	Pass
		2645	100	0	18.170	/	Pass
	16QAM	2565	100	0	18.152	/	Pass
		2605	100	0	18.123	/	Pass
		2645	100	0	18.212	/	Pass

## 12.1.2 Test Graph

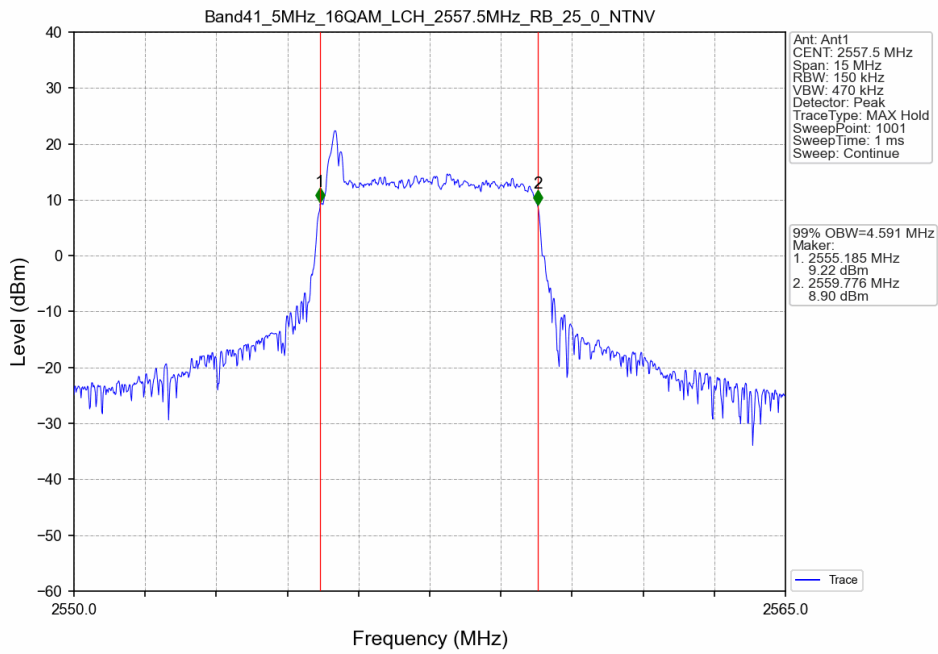




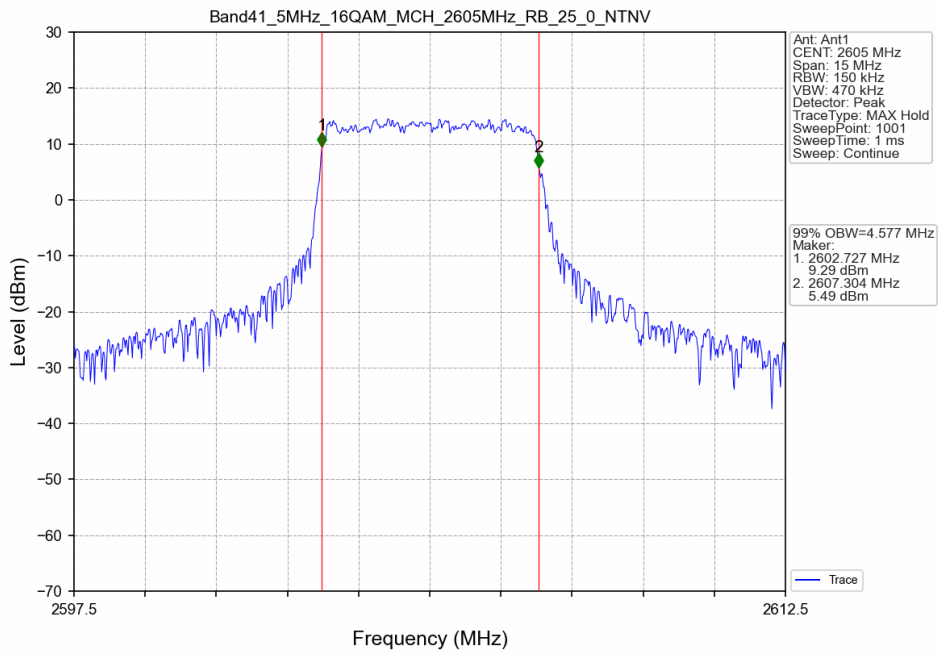
Band41\_5MHz\_QPSK\_HCH\_2652.5MHz\_RB\_25\_0\_NTNV



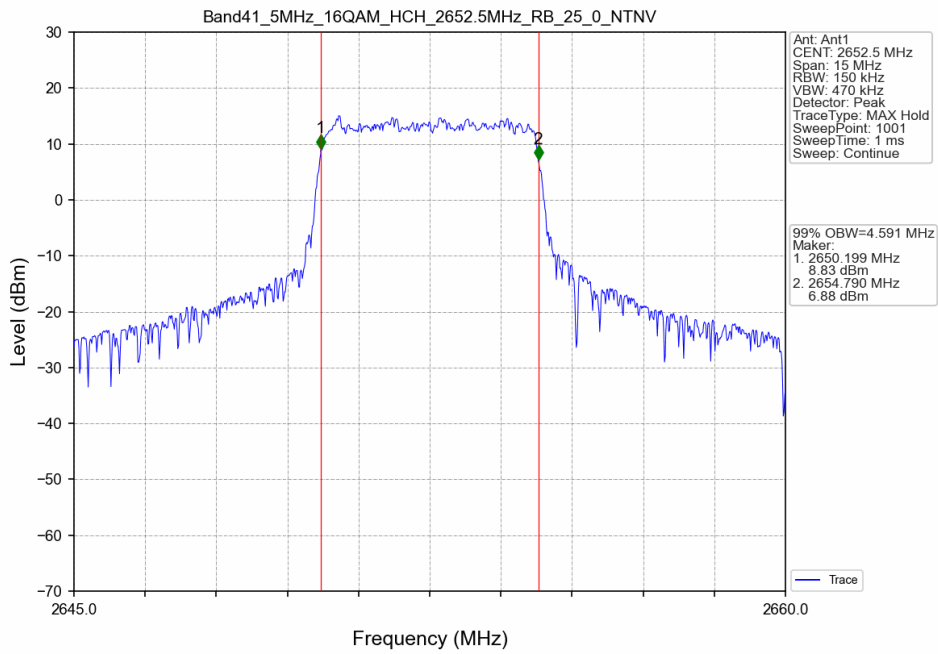
Band41\_5MHz\_16QAM\_LCH\_2557.5MHz\_RB\_25\_0\_NTNV



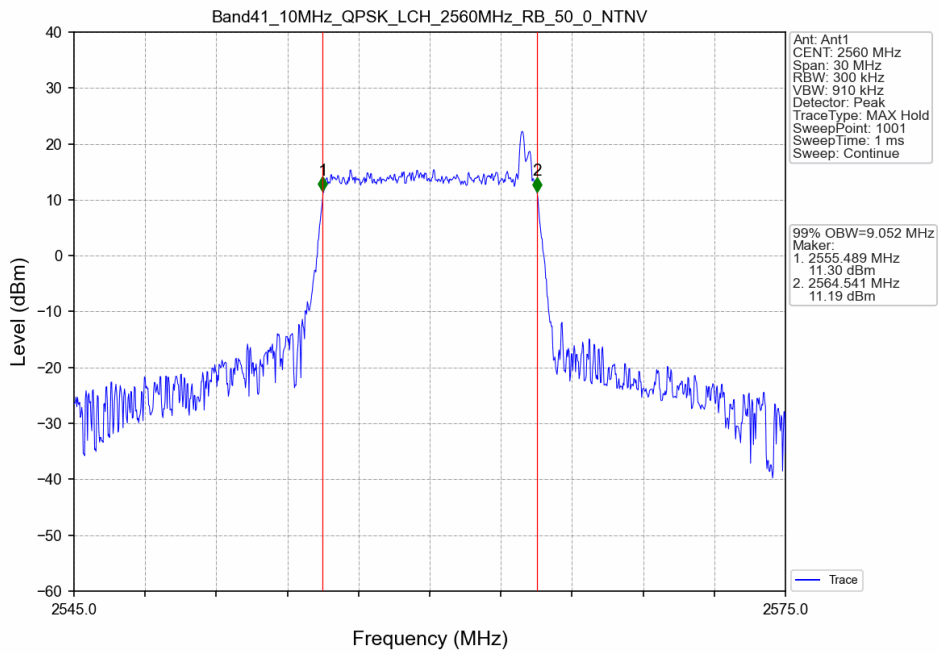
Band41\_5MHz\_16QAM\_MCH\_2605MHz\_RB\_25\_0\_NTNV



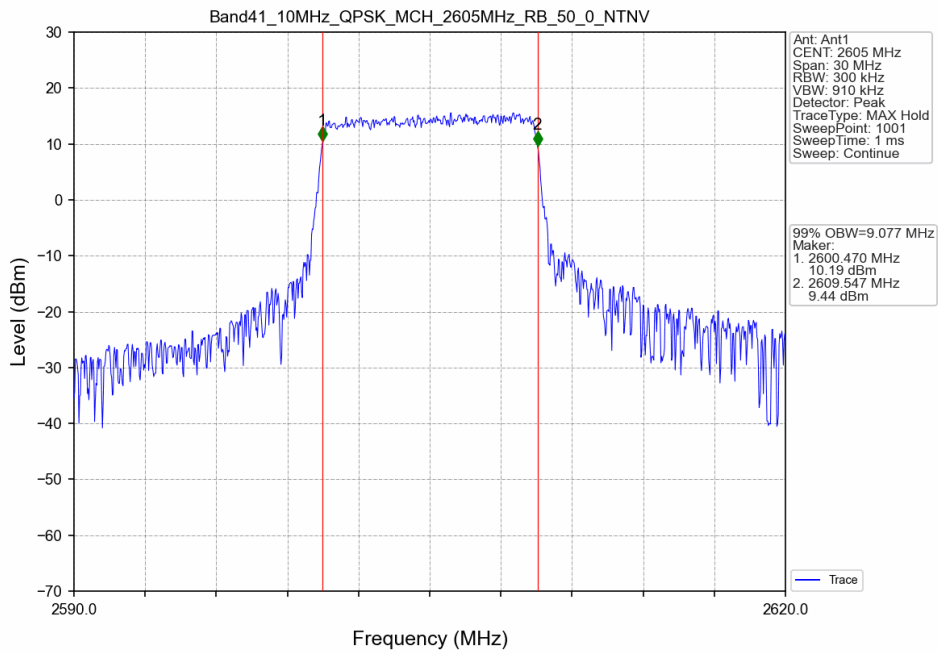
Band41\_5MHz\_16QAM\_HCH\_2652.5MHz\_RB\_25\_0\_NTNV



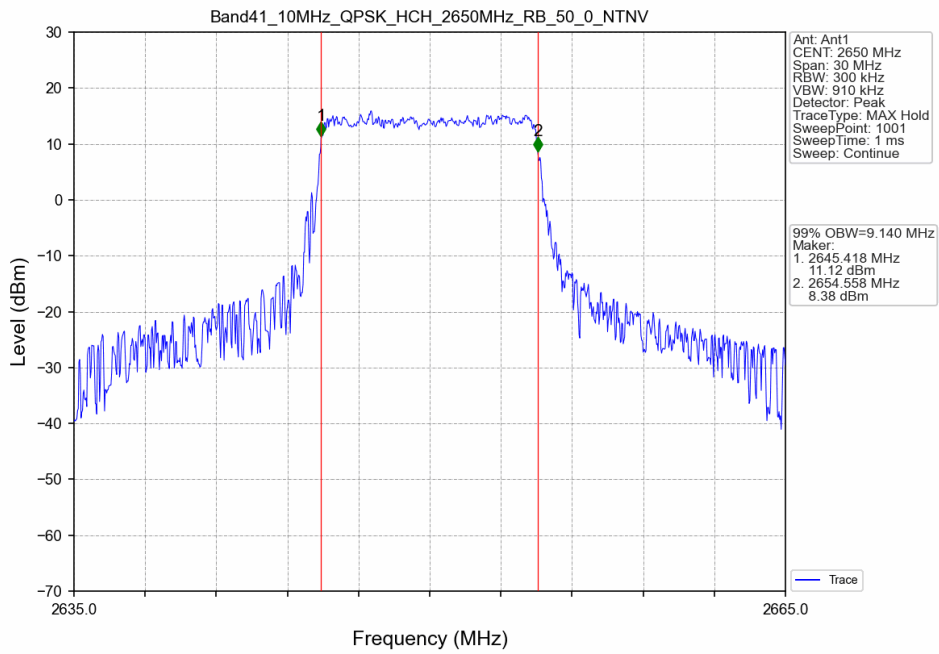
Band41\_10MHz\_QPSK\_LCH\_2560MHz\_RB\_50\_0\_NTNV



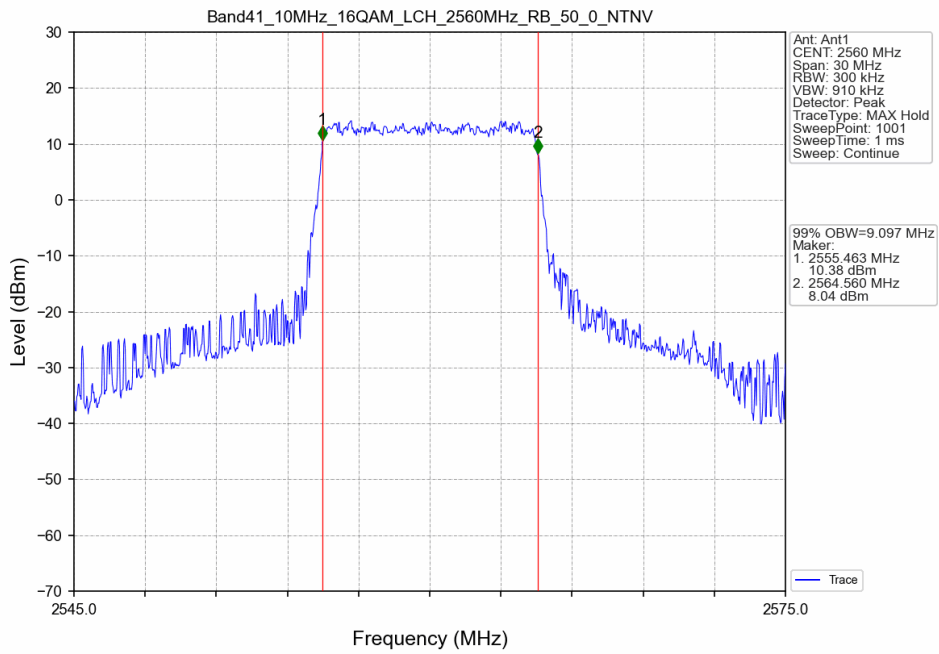
Band41\_10MHz\_QPSK\_MCH\_2605MHz\_RB\_50\_0\_NTNV



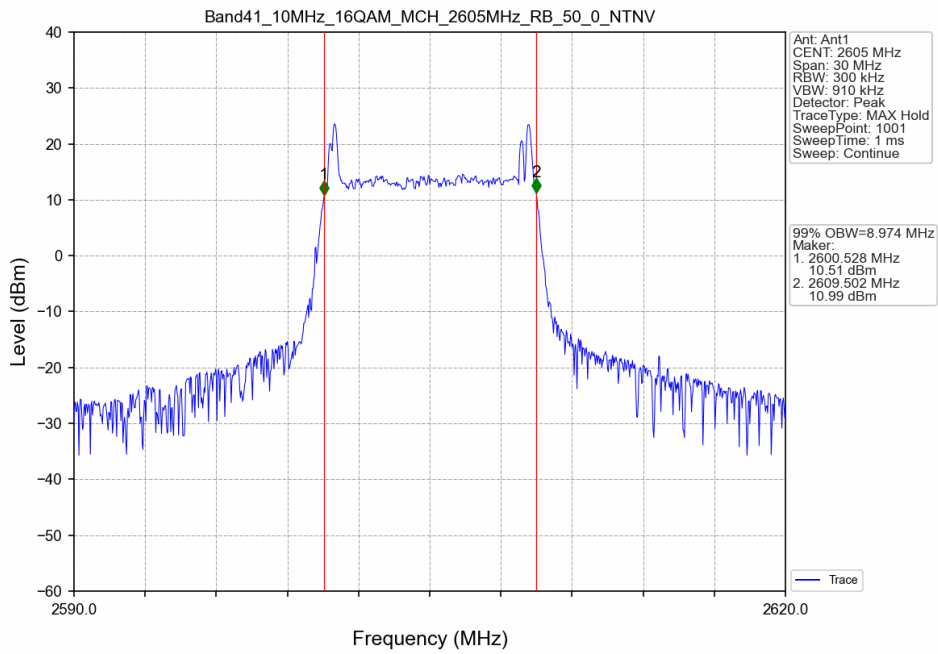
Band41\_10MHz\_QPSK\_HCH\_2650MHz\_RB\_50\_0\_NTNV



Band41\_10MHz\_16QAM\_LCH\_2560MHz\_RB\_50\_0\_NTNV



Band41\_10MHz\_16QAM\_MCH\_2605MHz\_RB\_50\_0\_NTNV



Band41\_10MHz\_16QAM\_HCH\_2650MHz\_RB\_50\_0\_NTNV

