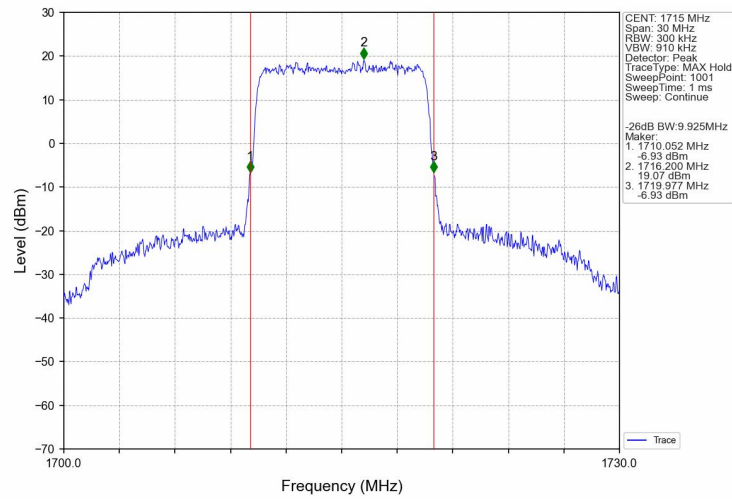
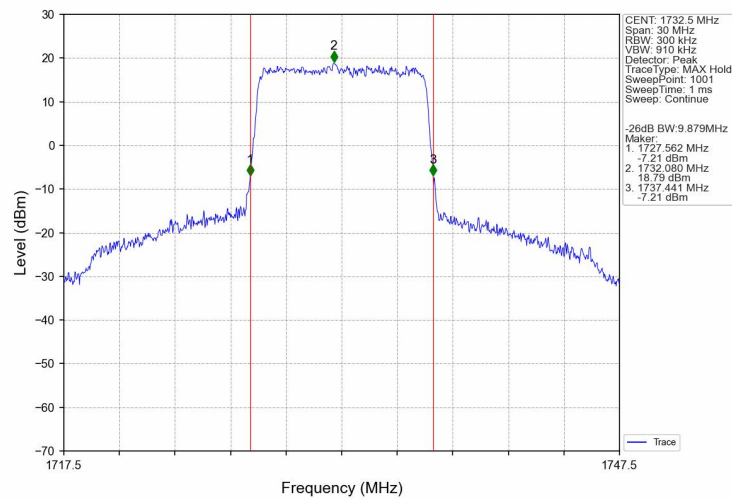


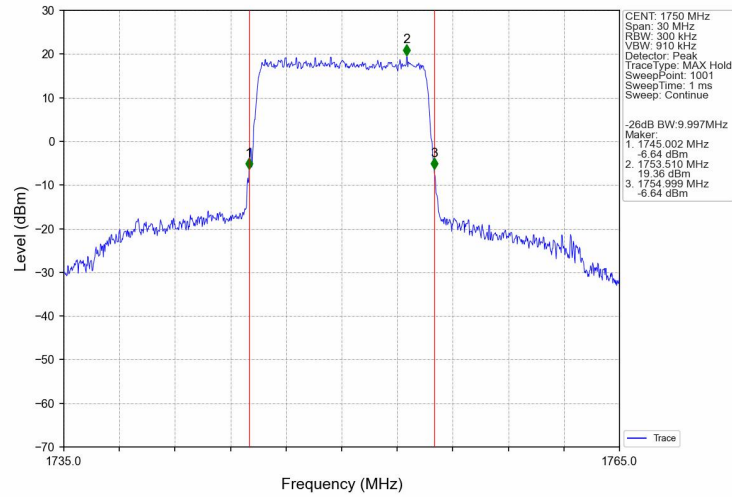
### Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



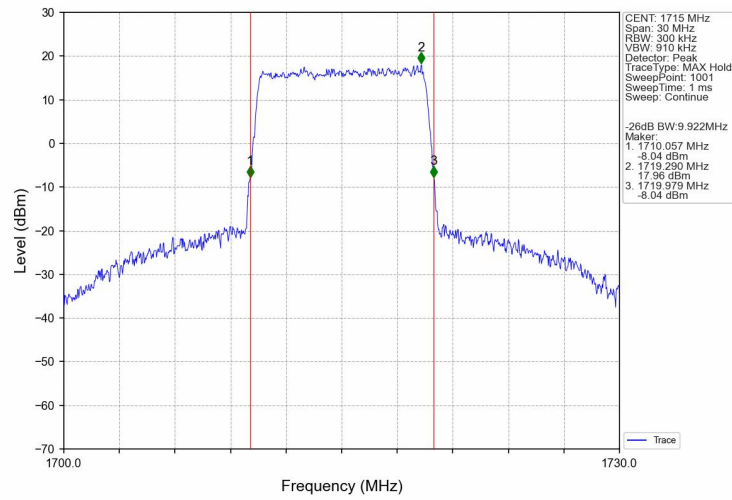
### Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



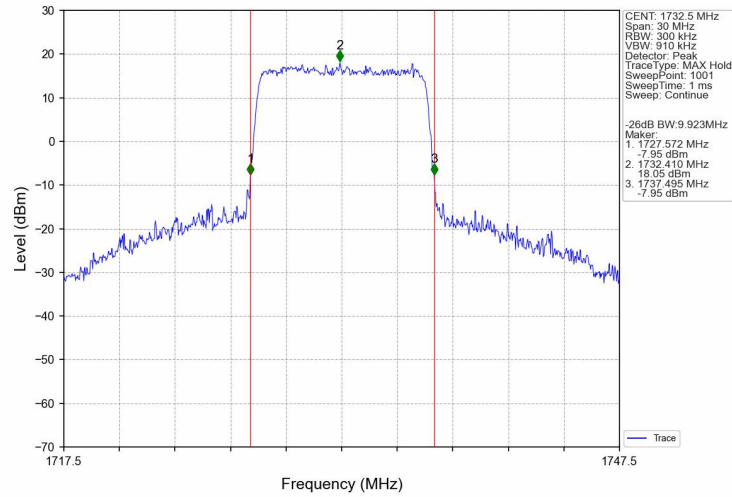
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



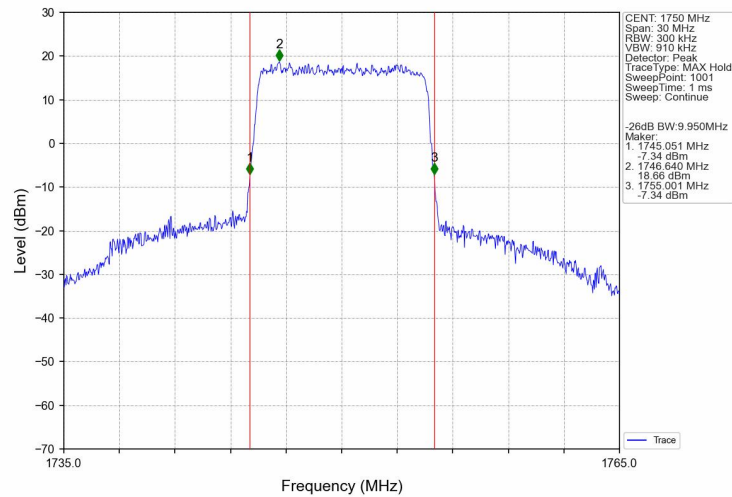
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



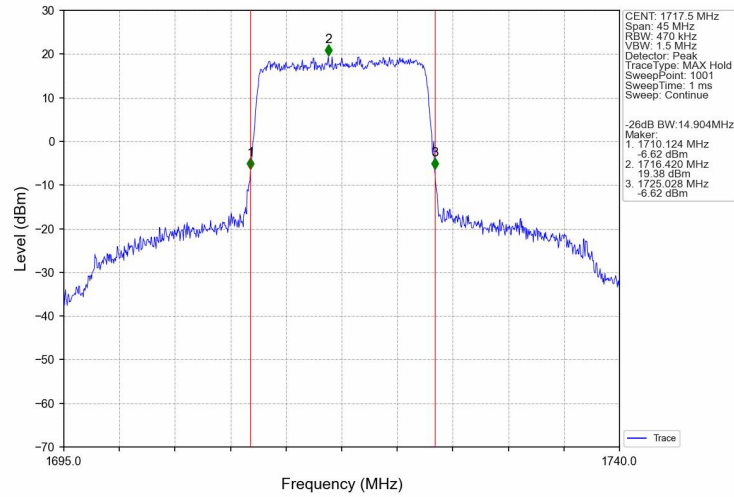
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



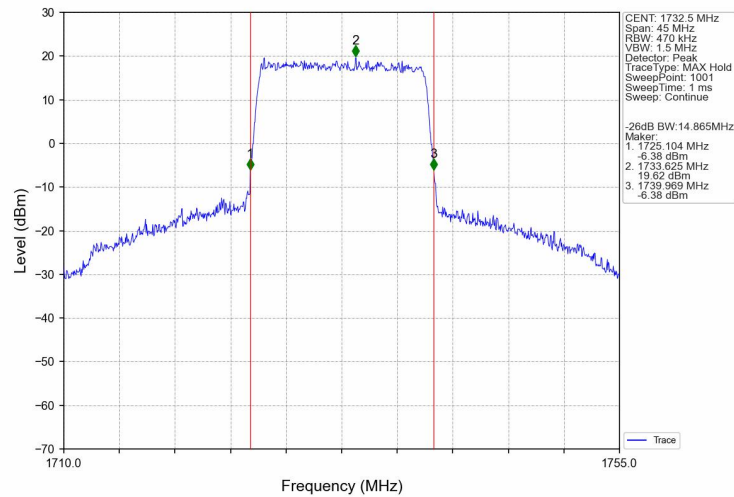
Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_50\_0\_NTNV



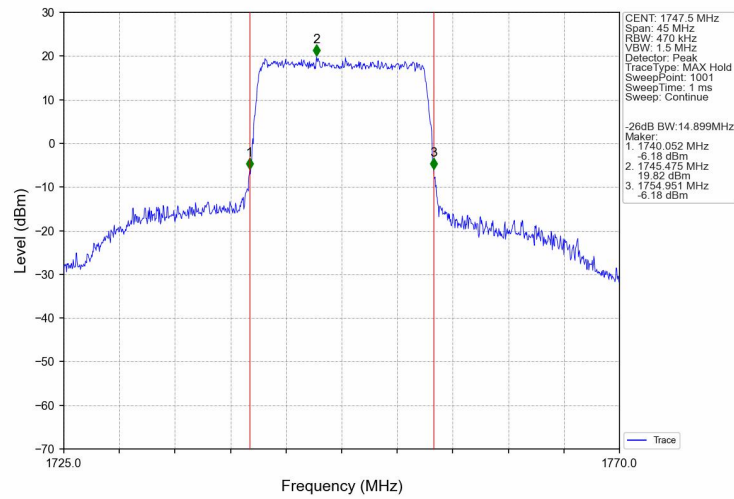
Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



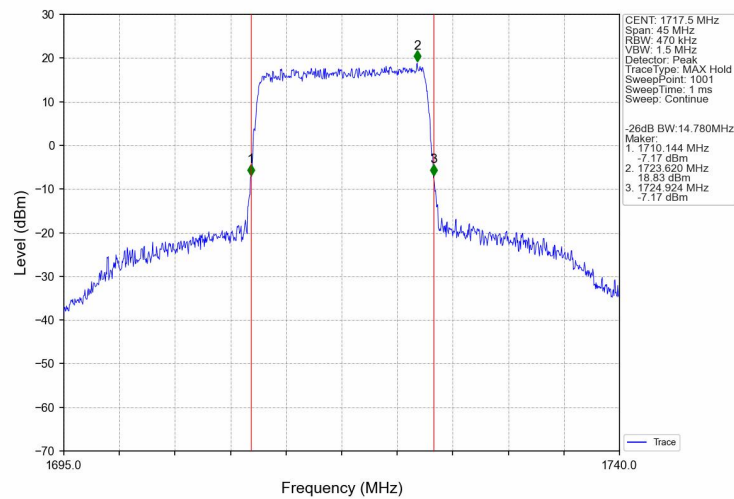
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



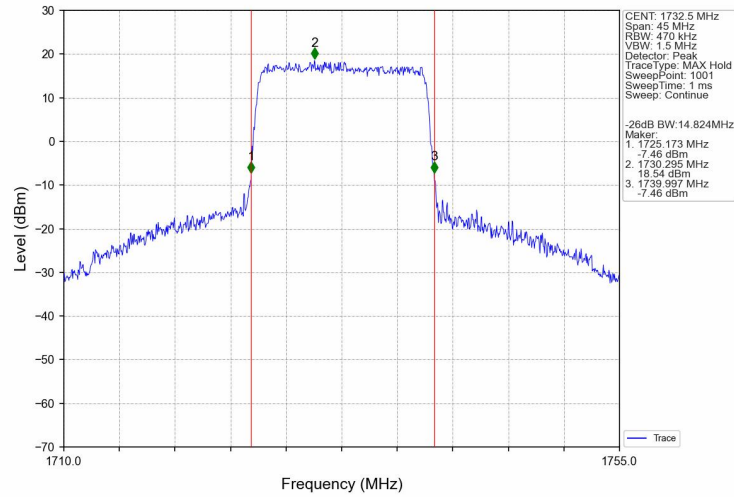
### Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



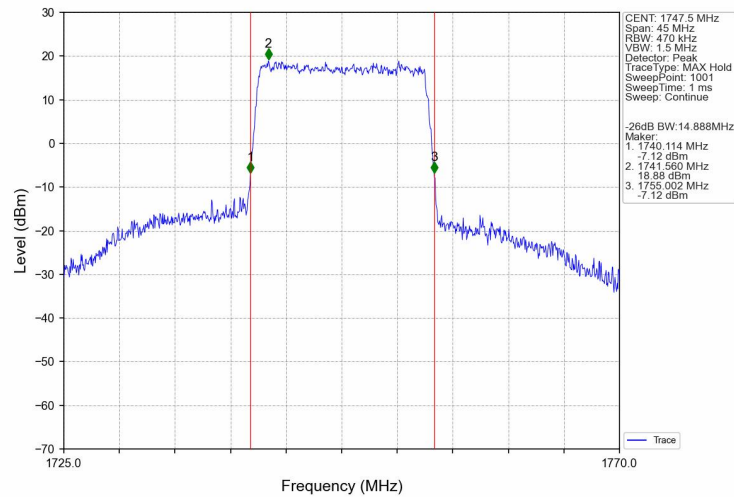
### Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



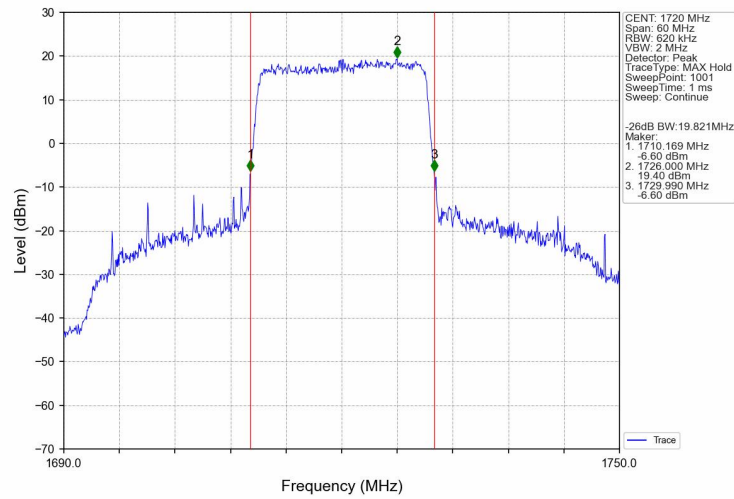
### Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



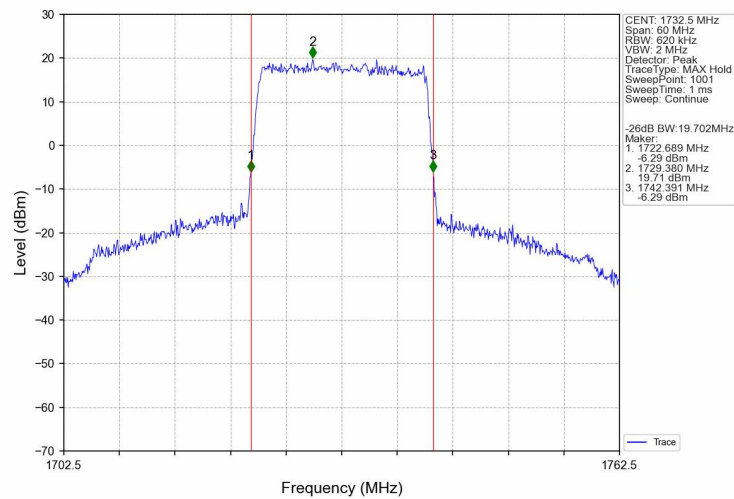
### Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



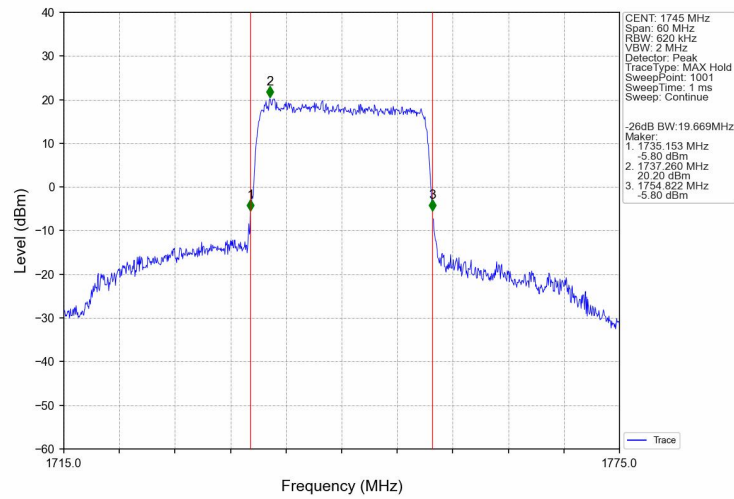
Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV



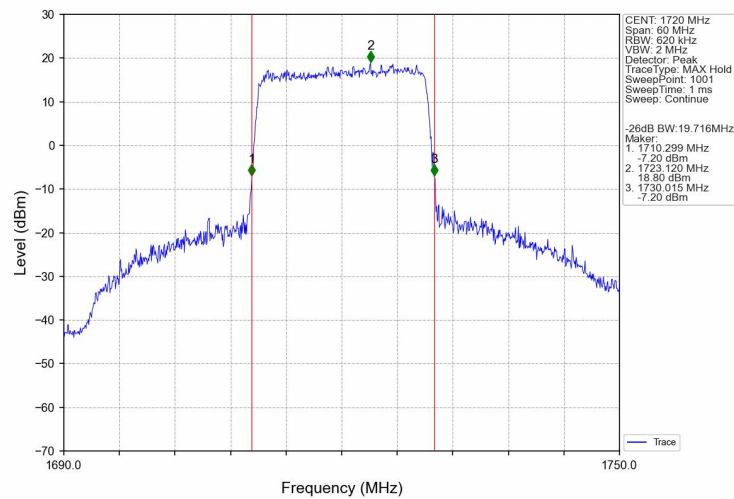
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



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

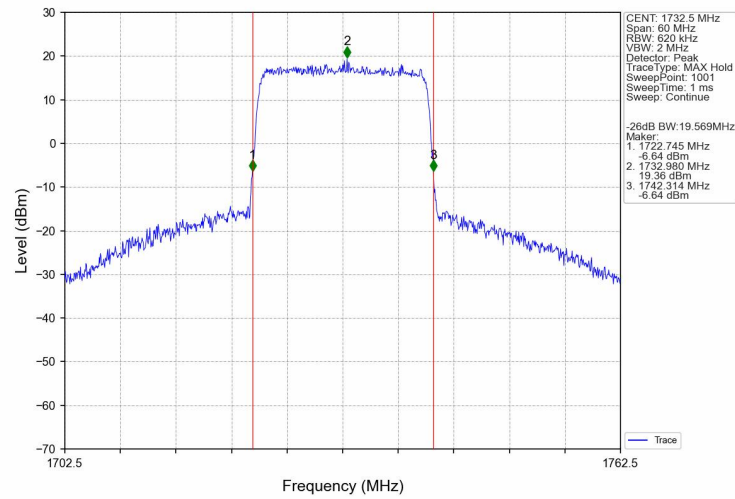


### Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV

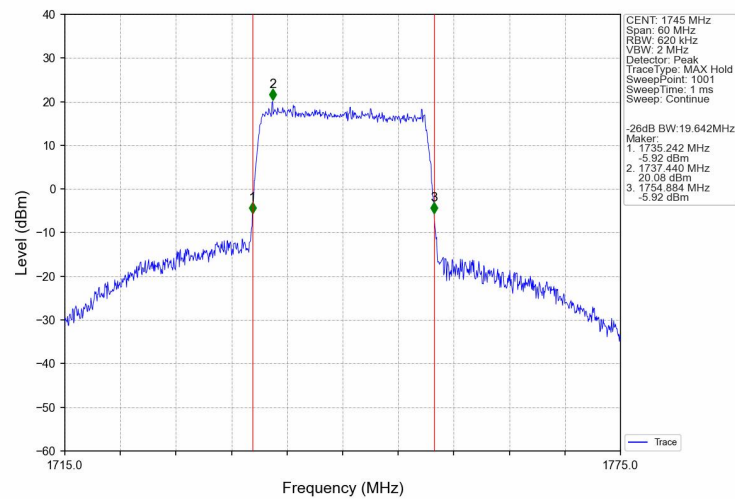




Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



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



Band: 4 / Bandwidth: 15MHz / NTV

Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.13	<=13	Pass
	1732.5	75	0	5.02	<=13	Pass
	1747.5	75	0	5.16	<=13	Pass
16QAM	1717.5	75	0	6.11	<=13	Pass
	1732.5	75	0	6.00	<=13	Pass
	1747.5	75	0	6.10	<=13	Pass

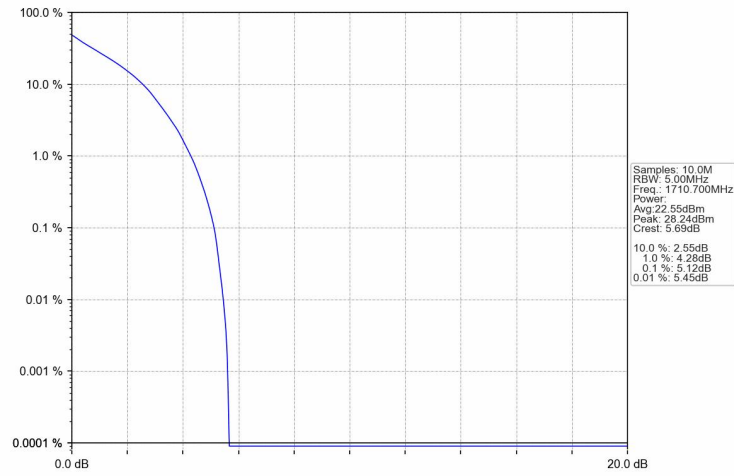
### 5.1.6 B4\_20MHz

Band: 4 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.67	<=13	Pass
	1732.5	100	0	5.64	<=13	Pass
	1745	100	0	5.60	<=13	Pass
16QAM	1720	100	0	6.55	<=13	Pass
	1732.5	100	0	6.51	<=13	Pass
	1745	100	0	6.59	<=13	Pass

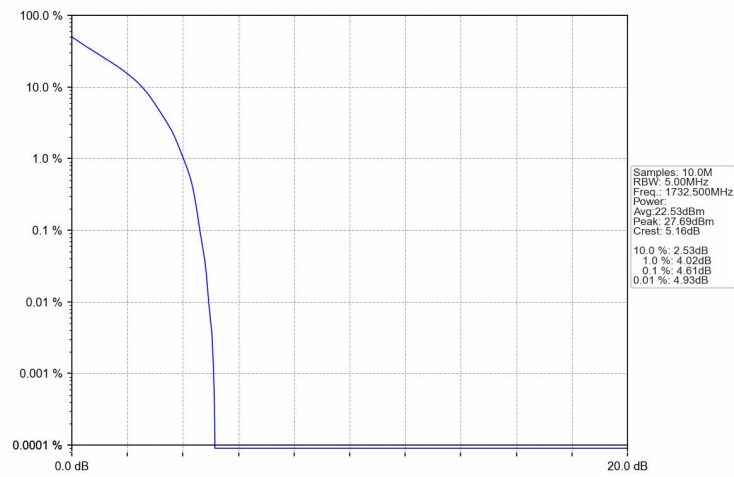
## 5.2 Test Graph

### 5.2.1 B4\_1.4MHz

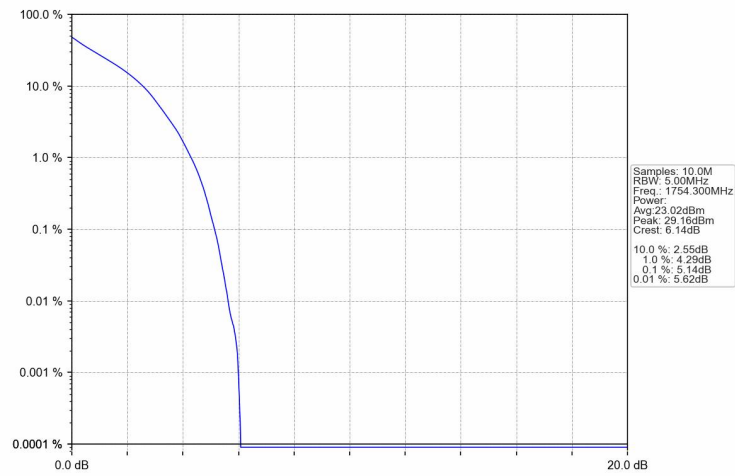
Band4\_1.4MHz\_QPSK\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



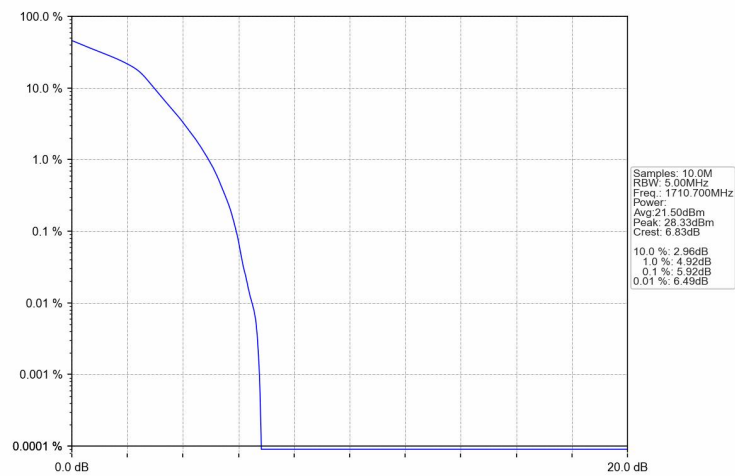
Band4\_1.4MHz\_QPSK\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



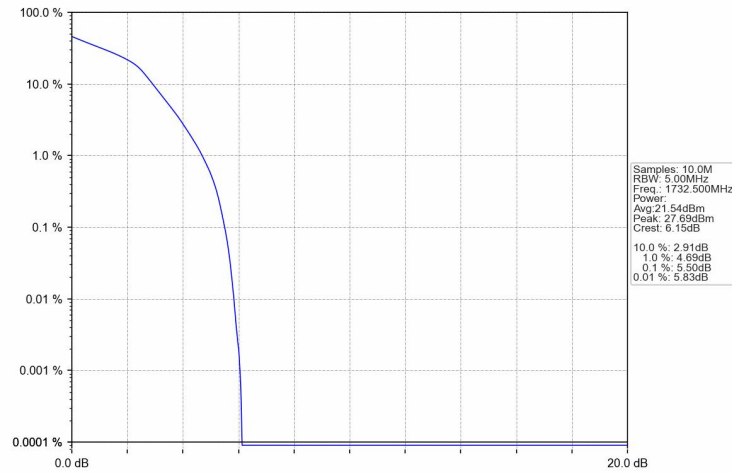
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



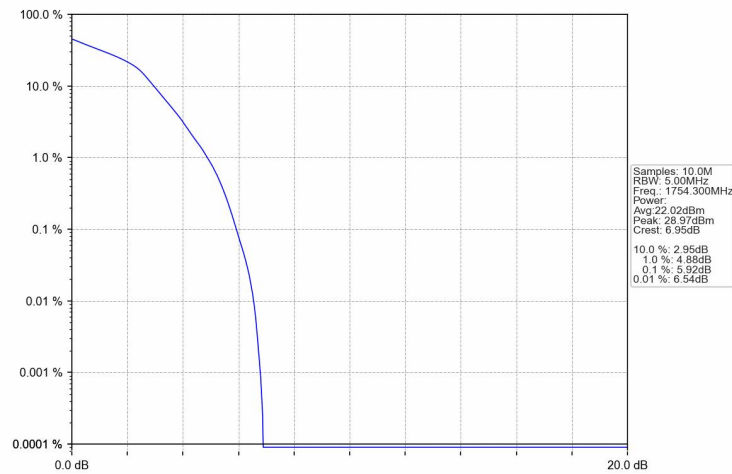
Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



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

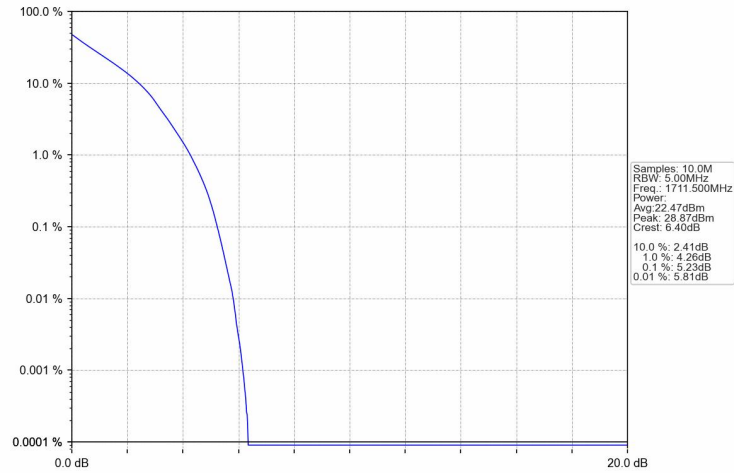


Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV

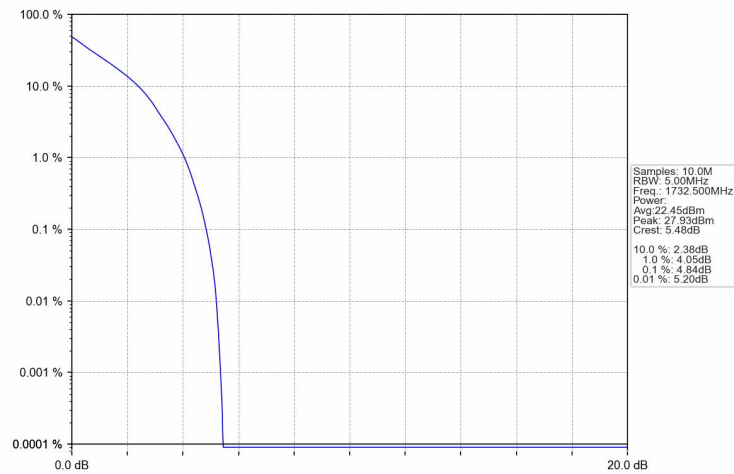


### 5.2.2 B4\_3MHz

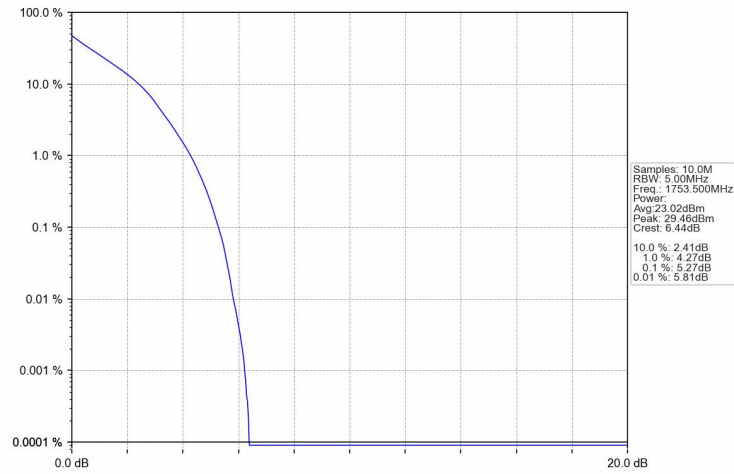
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



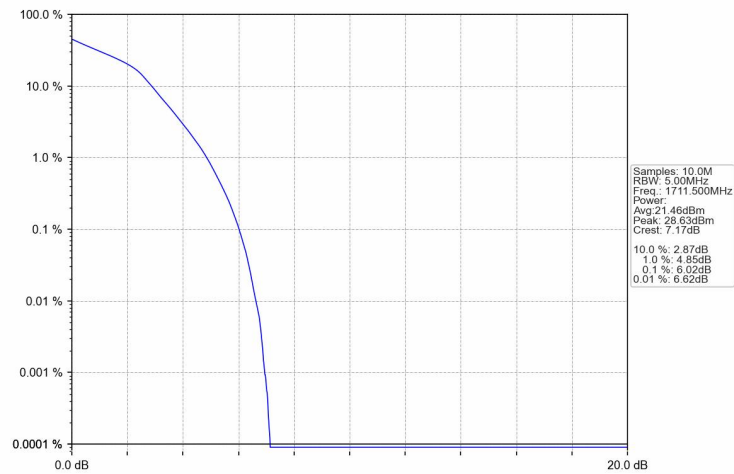
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



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

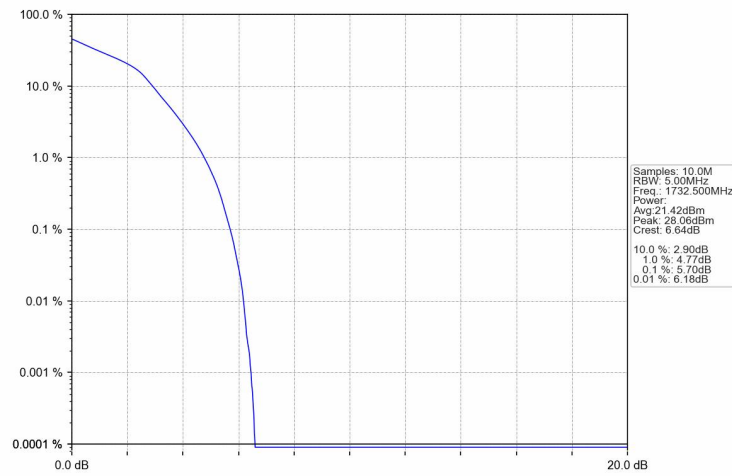


Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV

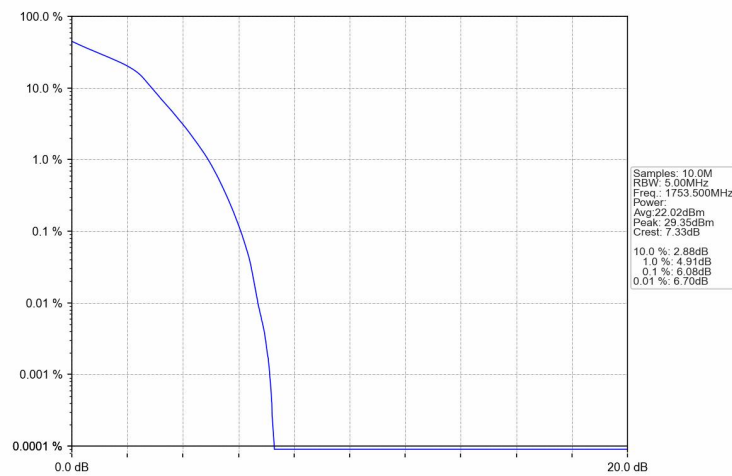




Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV

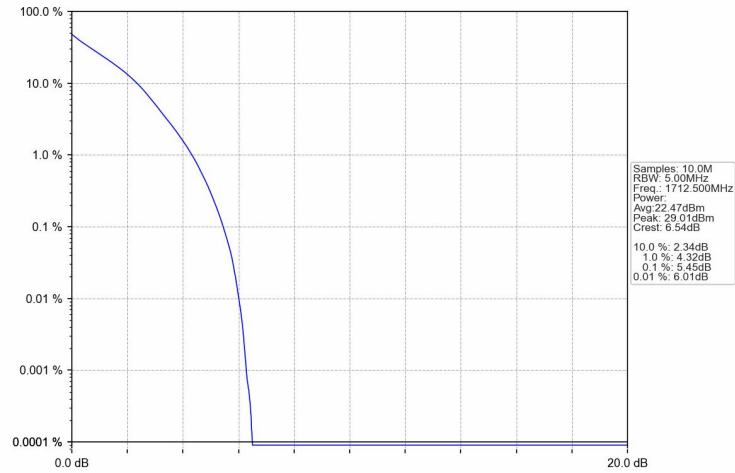


Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV

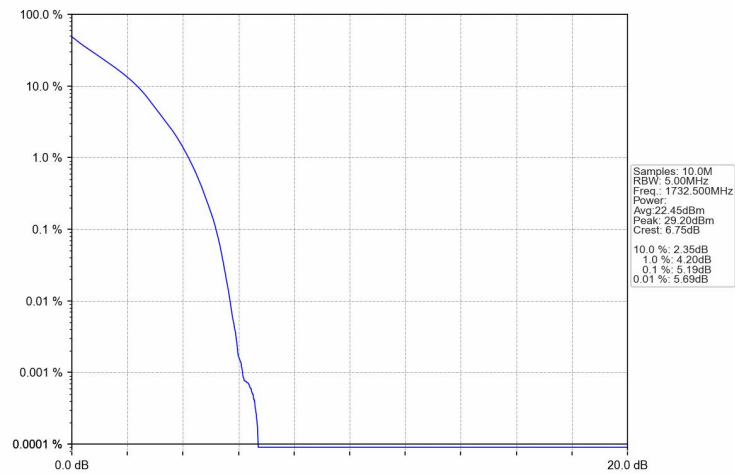


### 5.2.3 B4\_5MHz

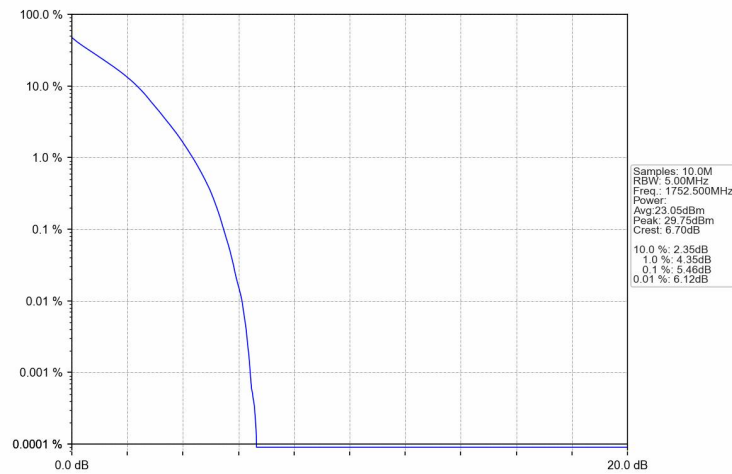
Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



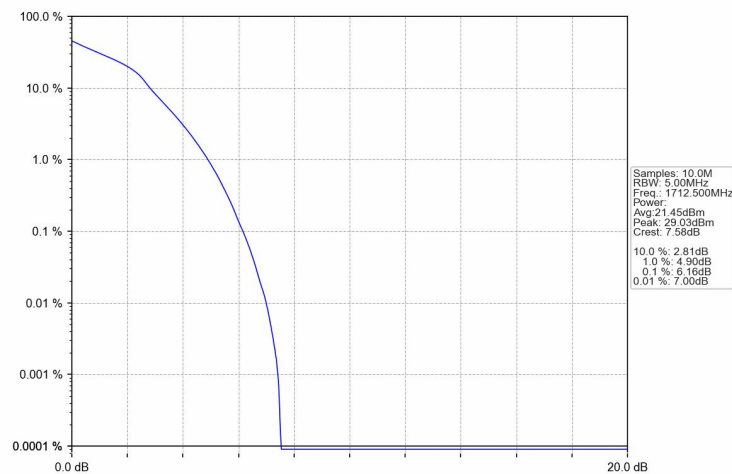
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



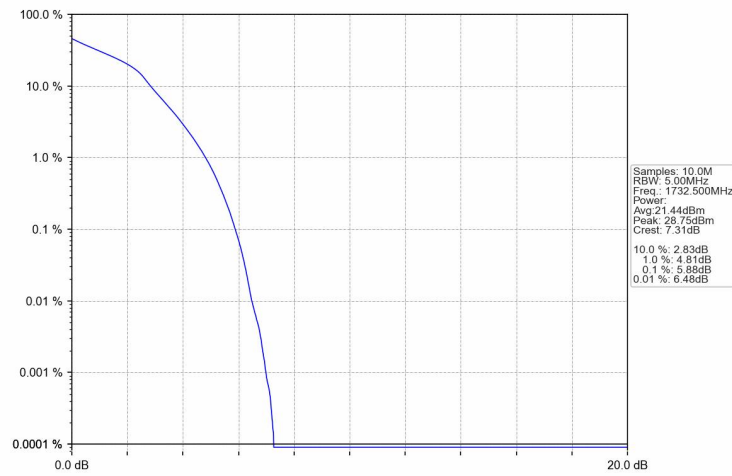
Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



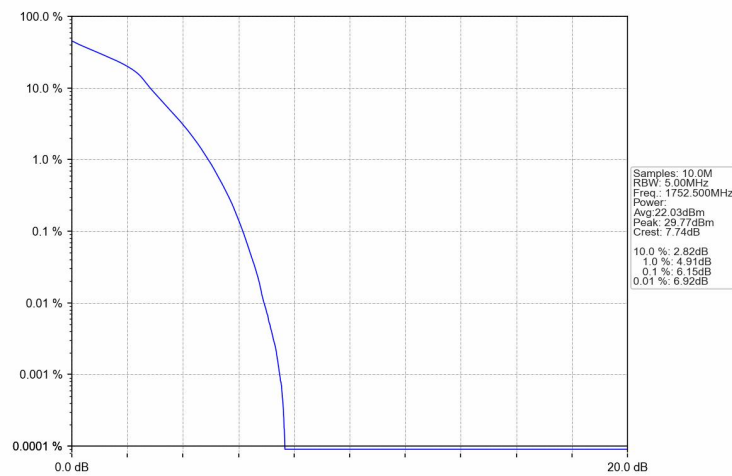
Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



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

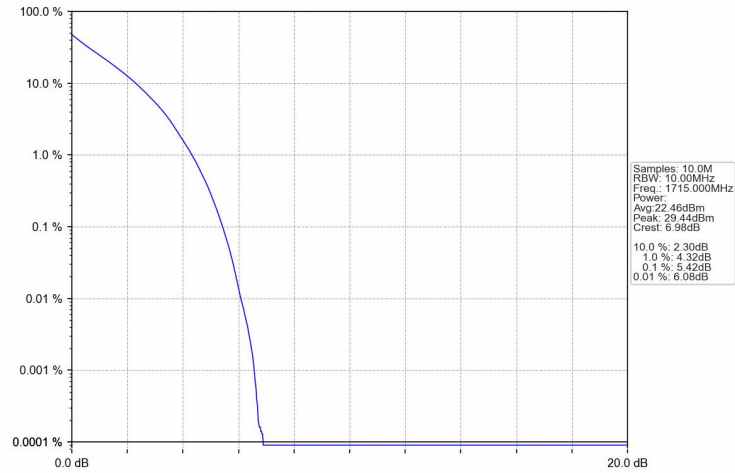


Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV

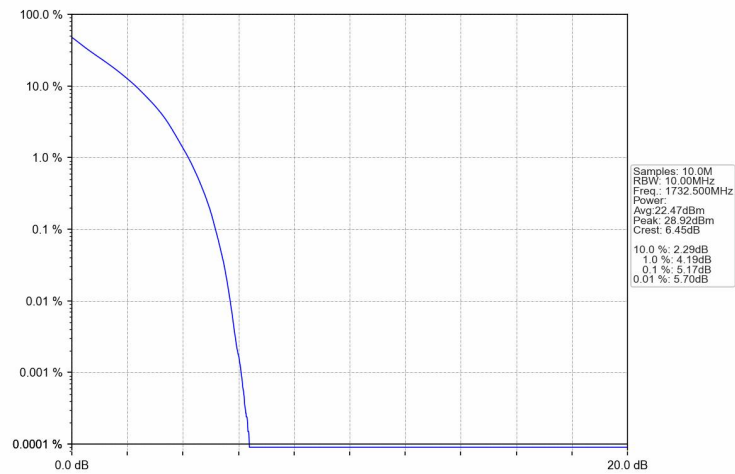


## 5.2.4 B4\_10MHz

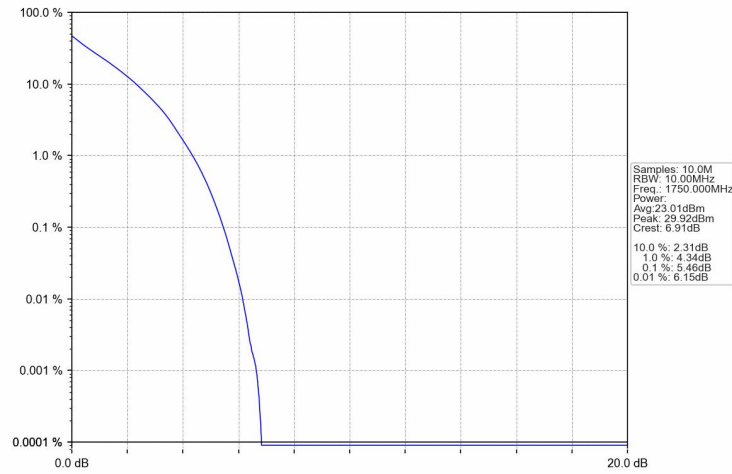
Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



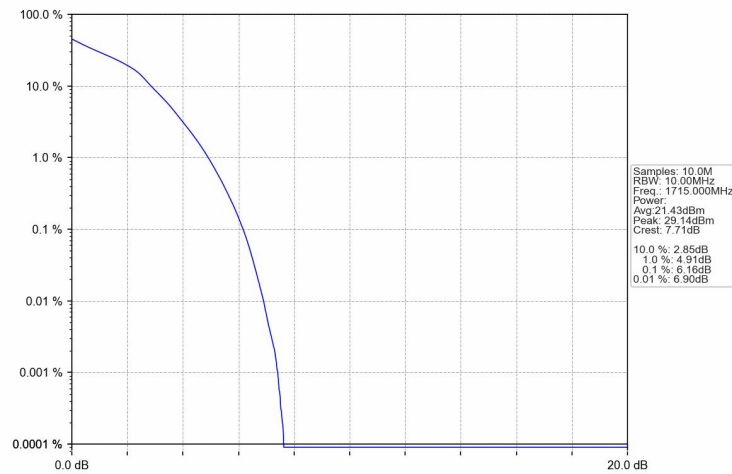
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



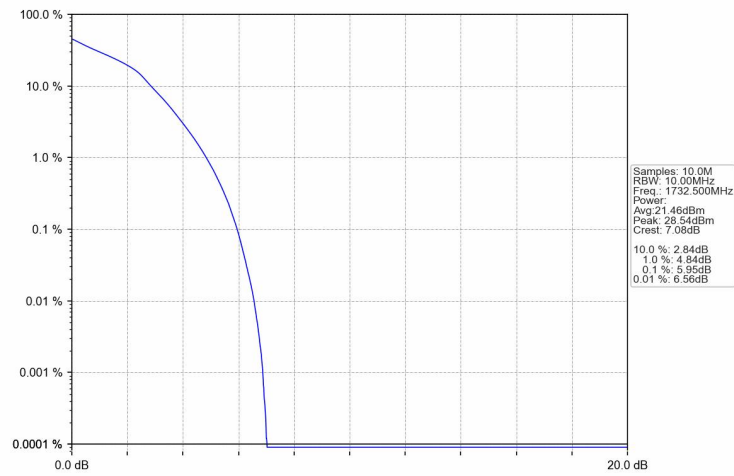
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



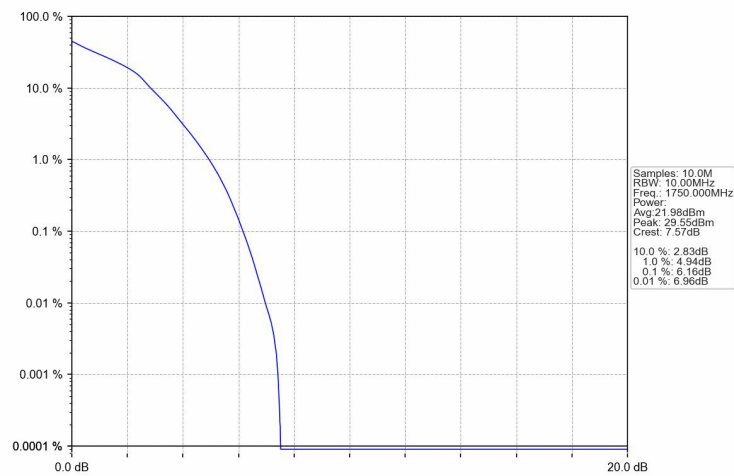
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



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

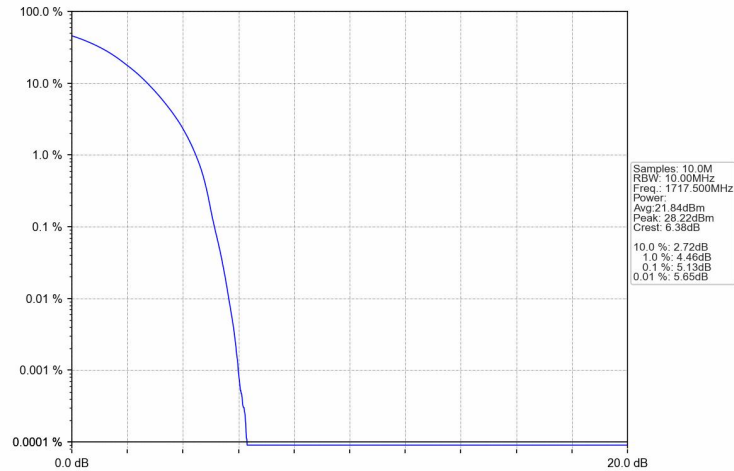


Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_50\_0\_NTNV

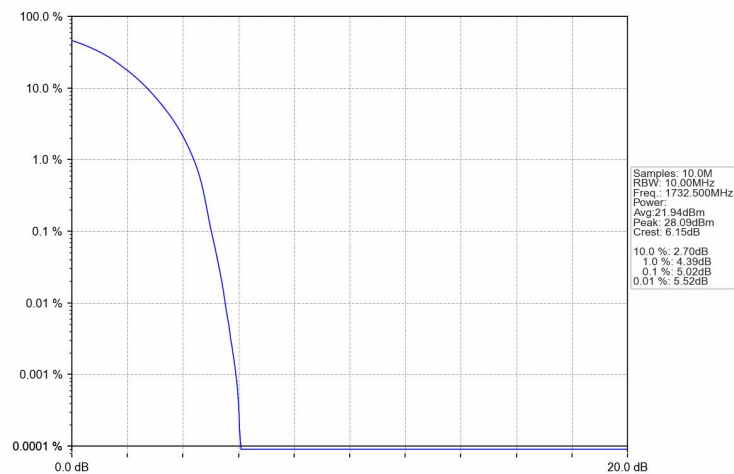


### 5.2.5 B4\_15MHz

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

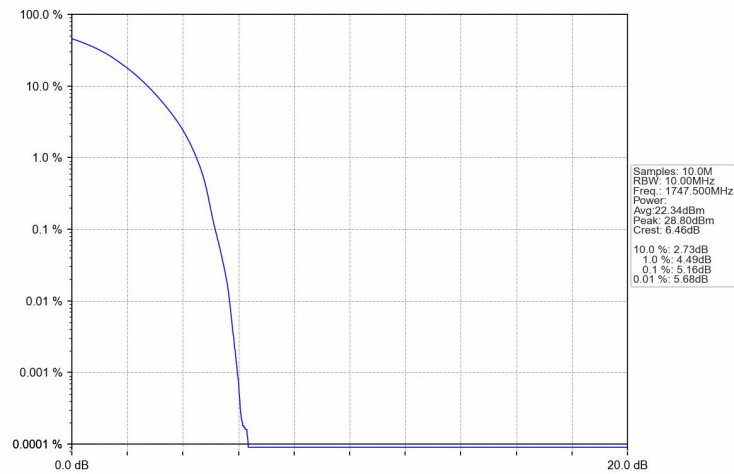


Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV

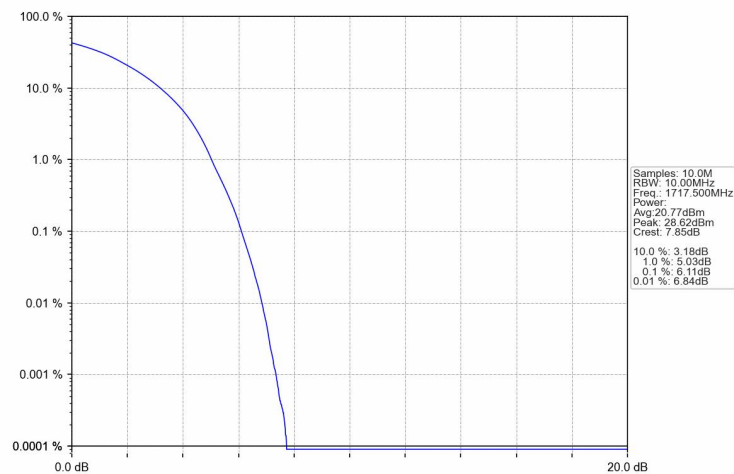




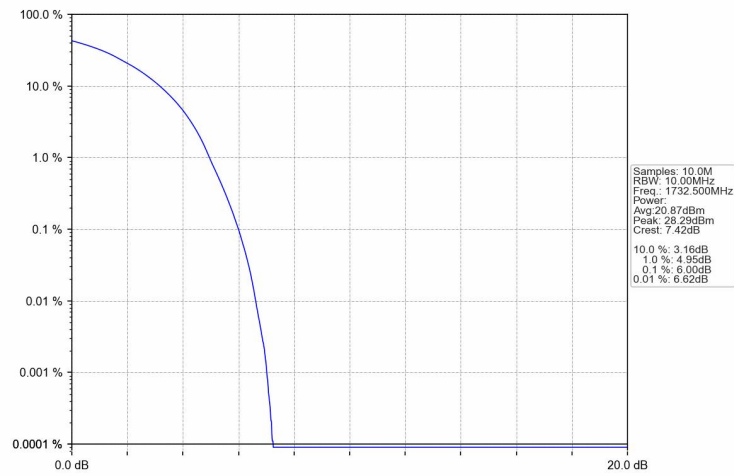
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



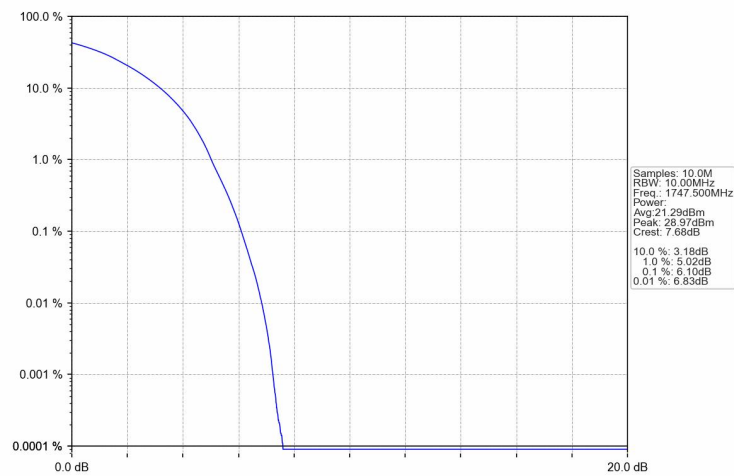
Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



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

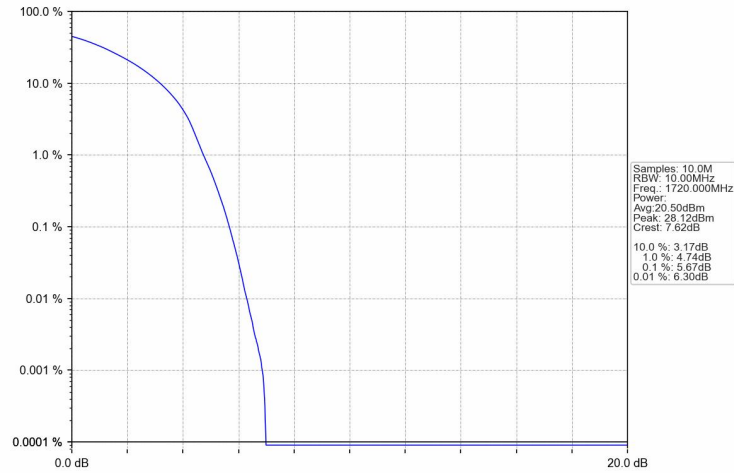


Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV

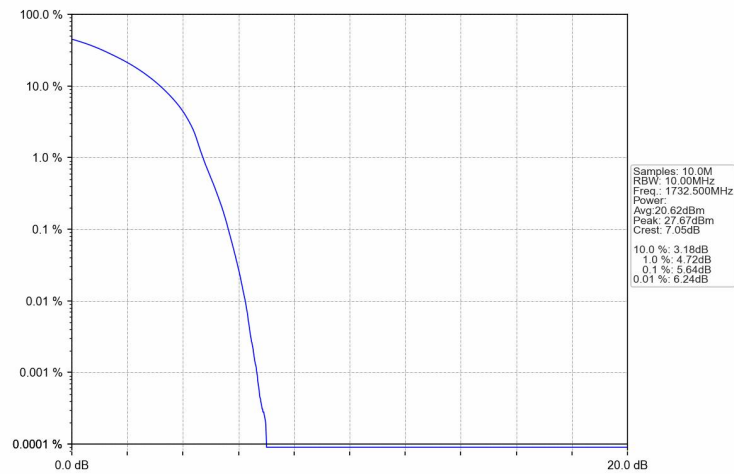


### 5.2.6 B4\_20MHz

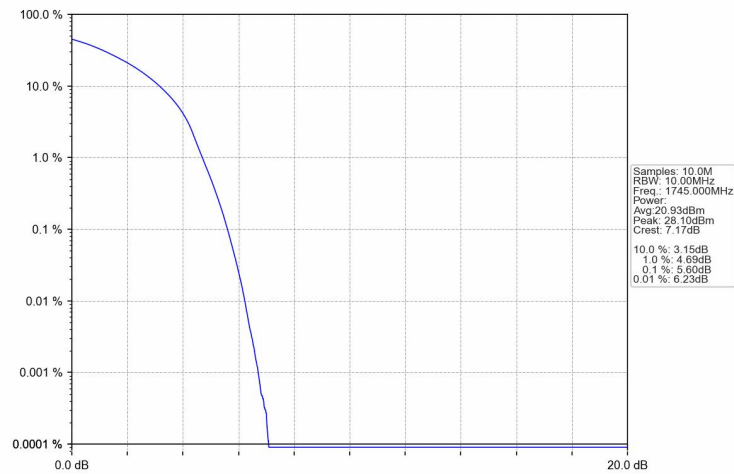
Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV



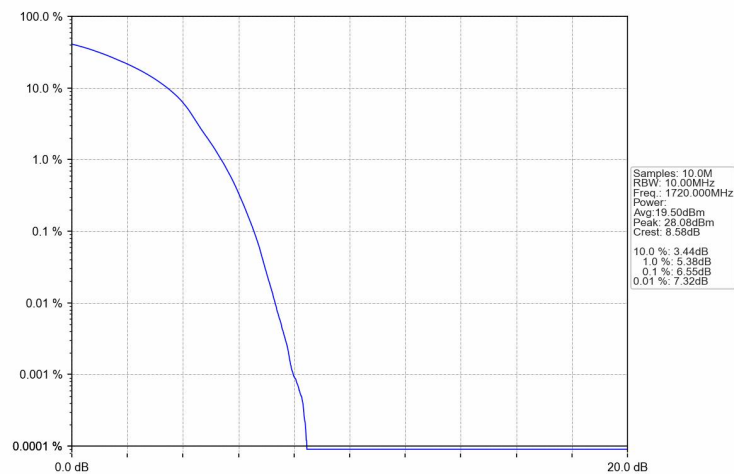
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



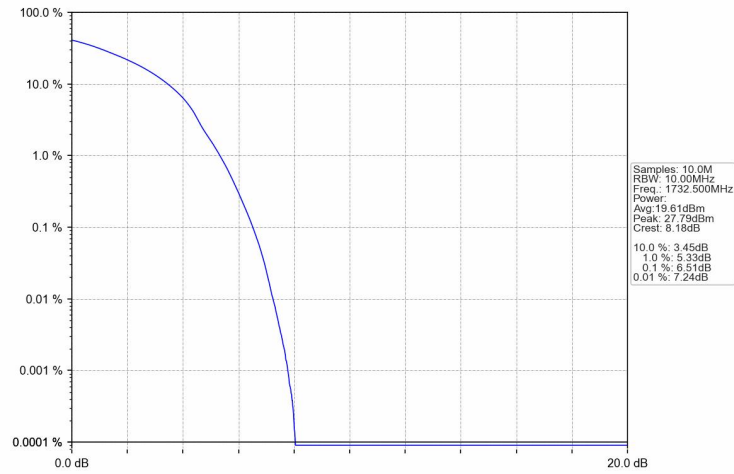
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



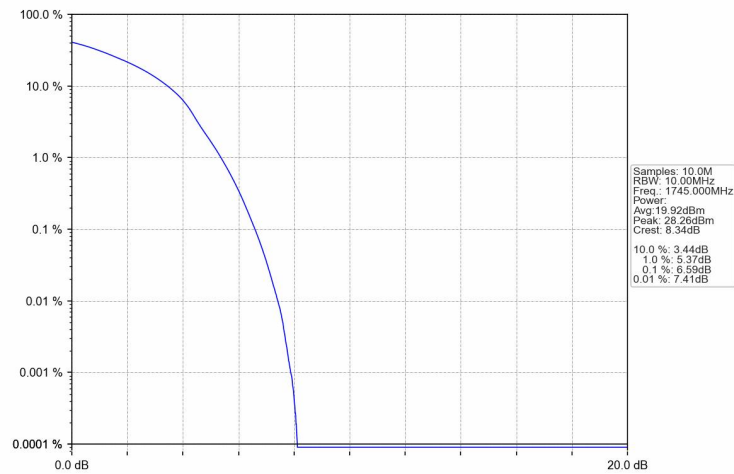
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV



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



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



## 6. Spurious Emission

### 6.1 Test Result

#### 6.1.1 B4\_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1710.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	1754.3	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
16QAM	1710.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	1754.3	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass

#### 6.1.2 B4\_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1711.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	1753.5	1	0	Refer To Test Graph	Pass
		15	14	Refer To Test Graph	Pass
16QAM	1711.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	1753.5	1	0	Refer To Test Graph	Pass
		15	14	Refer To Test Graph	Pass

#### 6.1.3 B4\_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1712.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	1752.5	1	0	Refer To Test Graph	Pass
		25	24	Refer To Test Graph	Pass
16QAM	1712.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	1752.5	1	0	Refer To Test Graph	Pass
		25	24	Refer To Test Graph	Pass

#### 6.1.4 B4\_10MHz

Band: 4 / Bandwidth: 10MHz / NTN/V						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1750	1	0	Refer To Test Graph	
	49			Refer To Test Graph		Pass
	50		0	Refer To Test Graph		Pass
16QAM	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1750	1	0	Refer To Test Graph	
	49			Refer To Test Graph		Pass
	50		0	Refer To Test Graph		Pass

#### 6.1.5 B4\_15MHz

Band: 4 / Bandwidth: 15MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

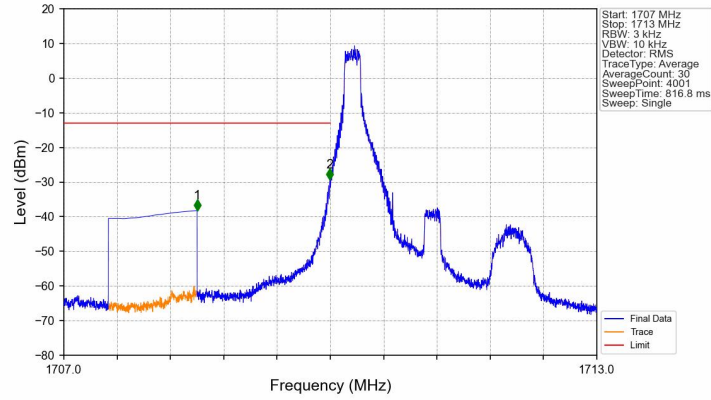
#### 6.1.6 B4\_20MHz

Band: 4 / Bandwidth: 20MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

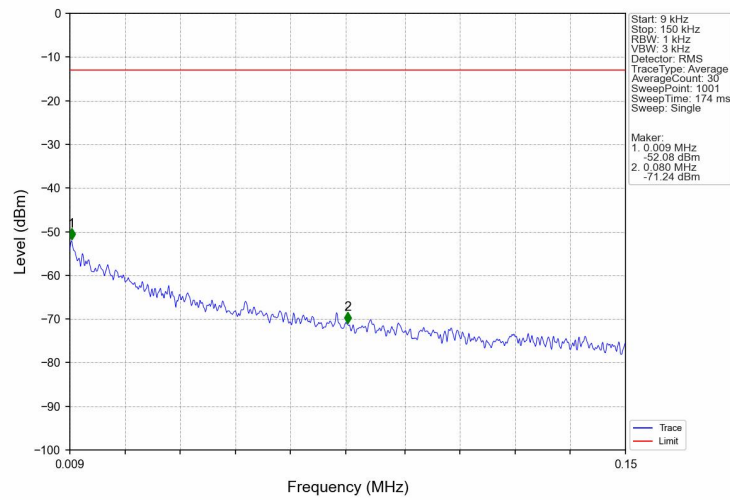
## 6.2 Test Graph

### 6.2.1 B4\_1.4MHz

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

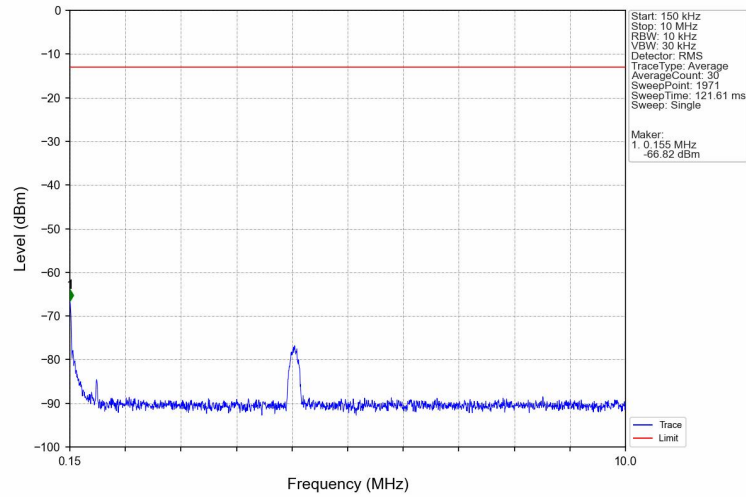


Band4\_1.4MHz\_QPSK\_LCH\_1710.7MHz\_RB\_1\_0\_NTNV

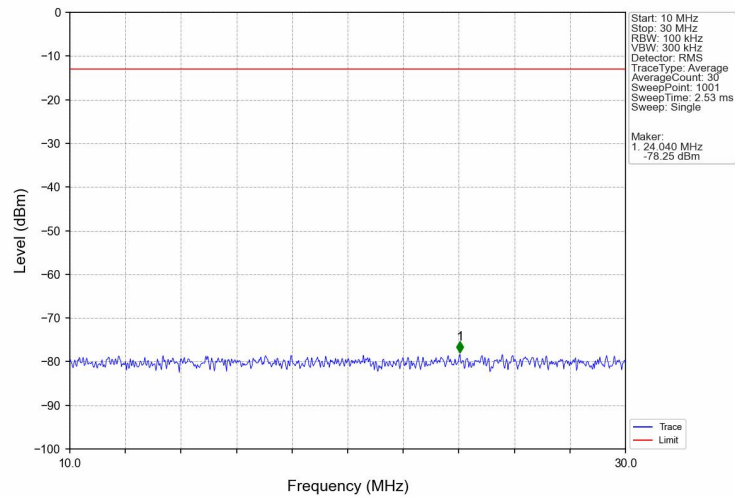




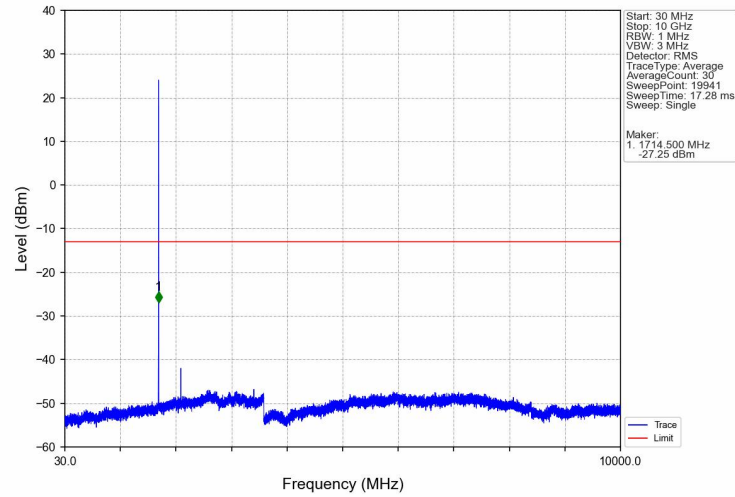
Band4\_1.4MHz\_QPSK\_LCH\_1710.7MHz\_RB\_1\_0\_NTNV



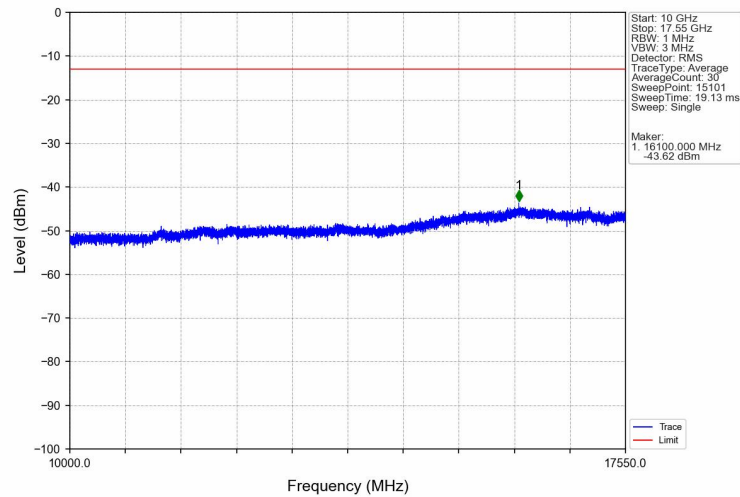
Band4\_1.4MHz\_QPSK\_LCH\_1710.7MHz\_RB\_1\_0\_NTNV



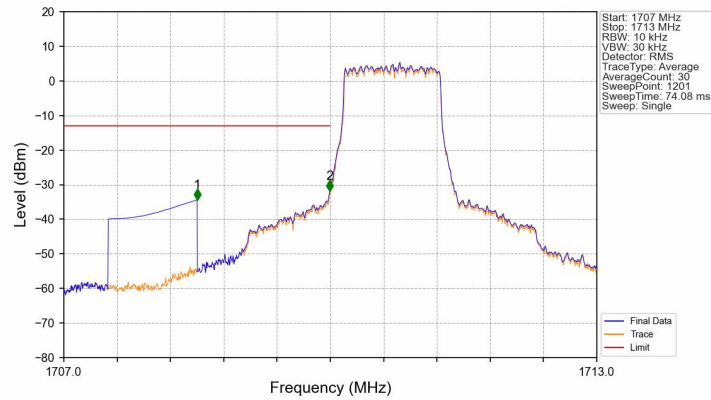
### Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTNV



### Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTNV

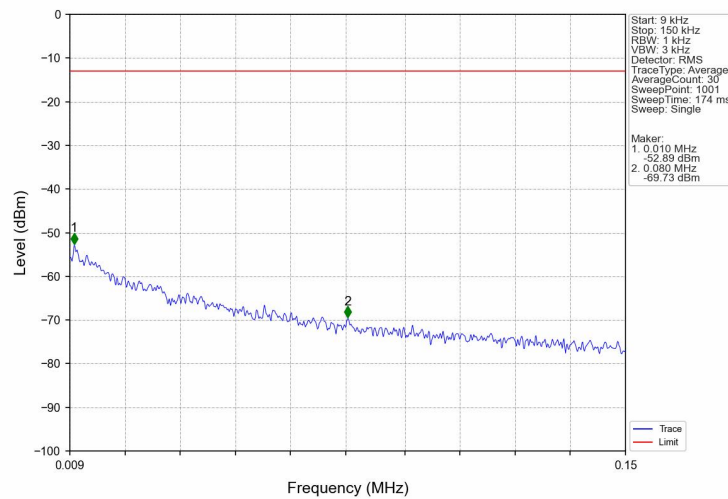


### Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTV

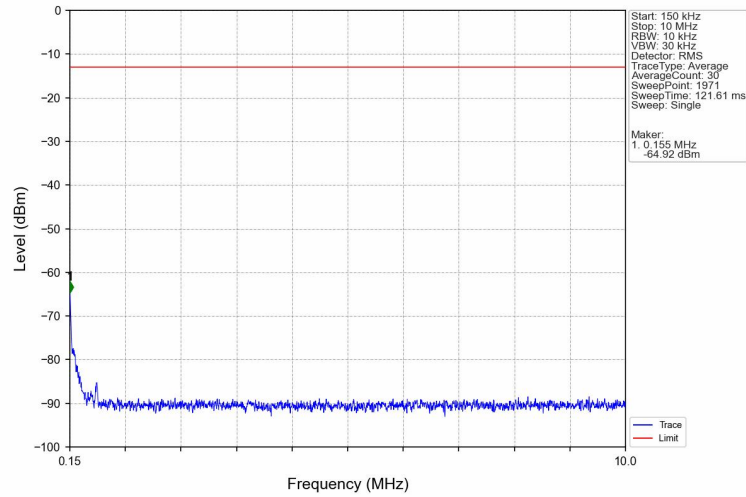


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-34.37	-13	Pass
1709	1710	0.013	CHP	2	1709.995	-31.80	-13	Pass
1710	1713	0.013	CHP	/	/	/	/	/

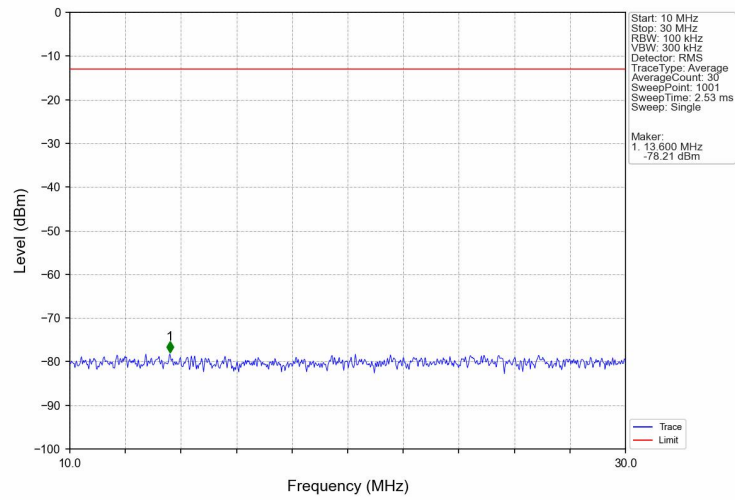
### Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTV



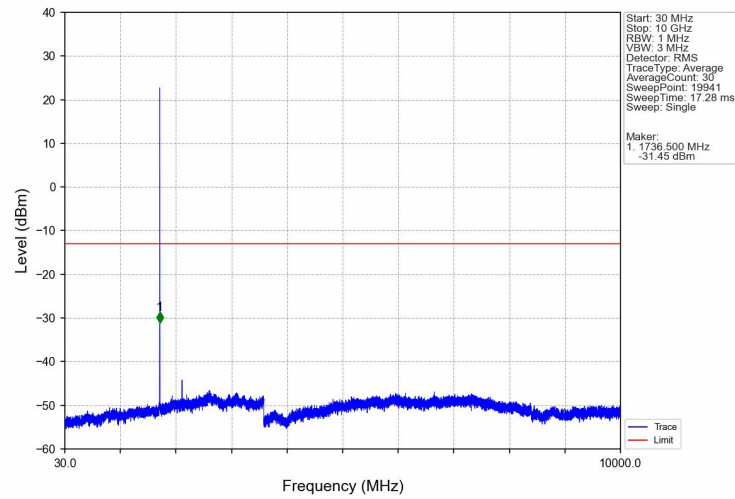
### Band4\_1.4MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



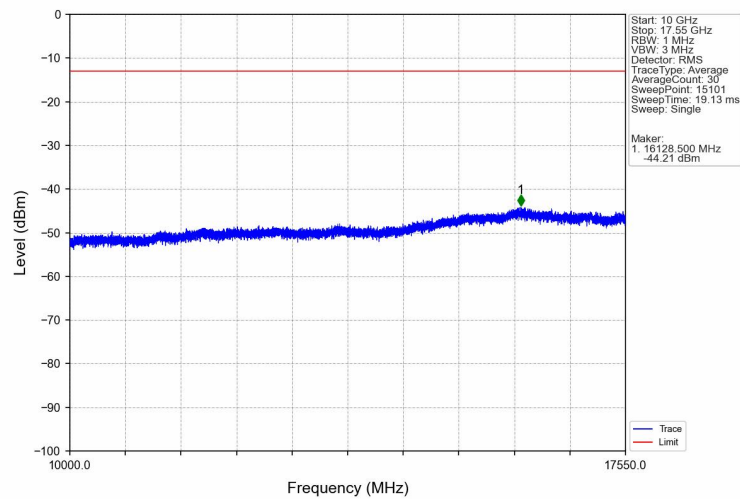
### Band4\_1.4MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



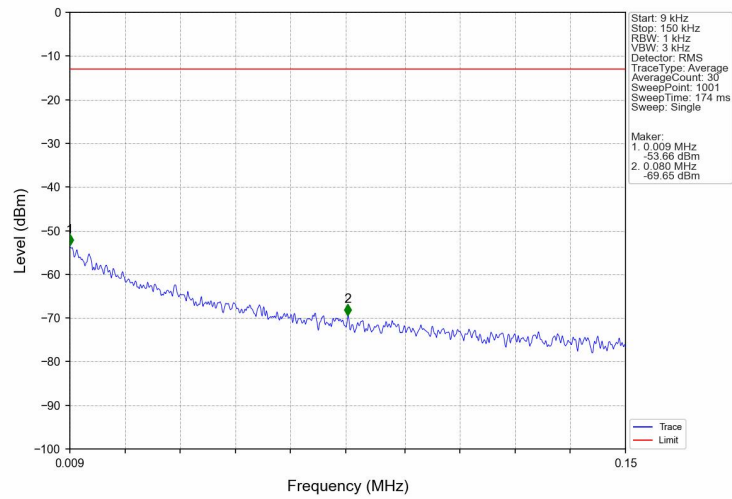
### Band4\_1.4MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



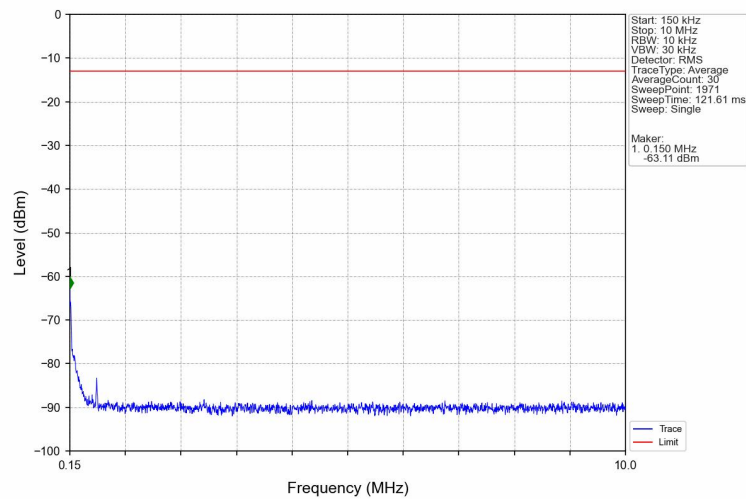
### Band4\_1.4MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



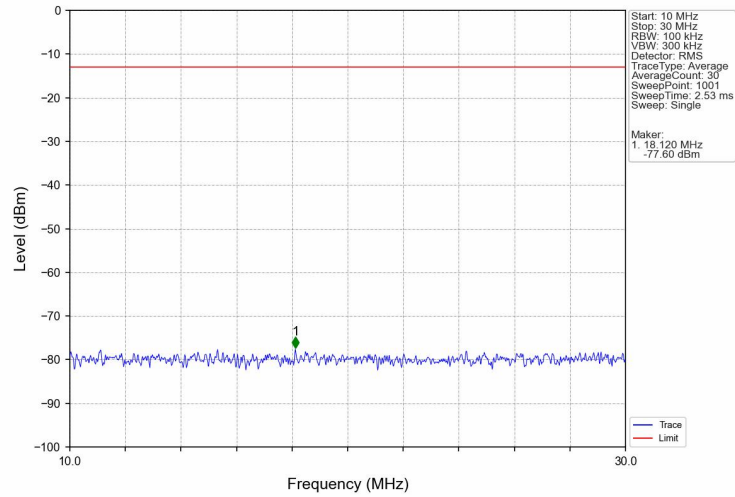
### Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_0\_NTNV



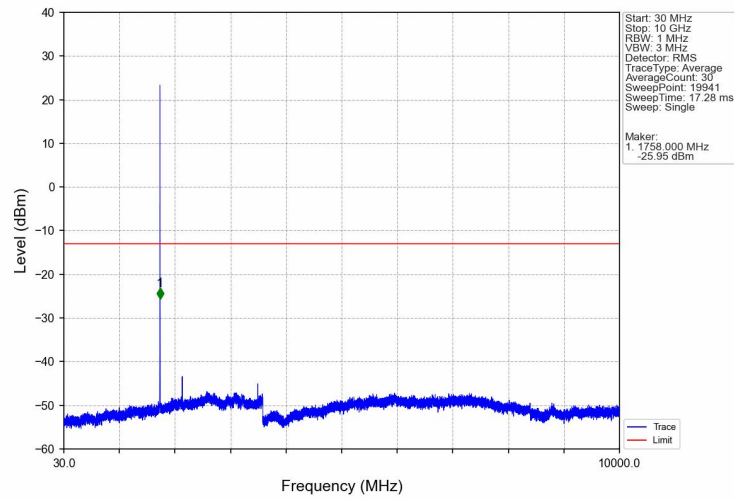
### Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_0\_NTNV



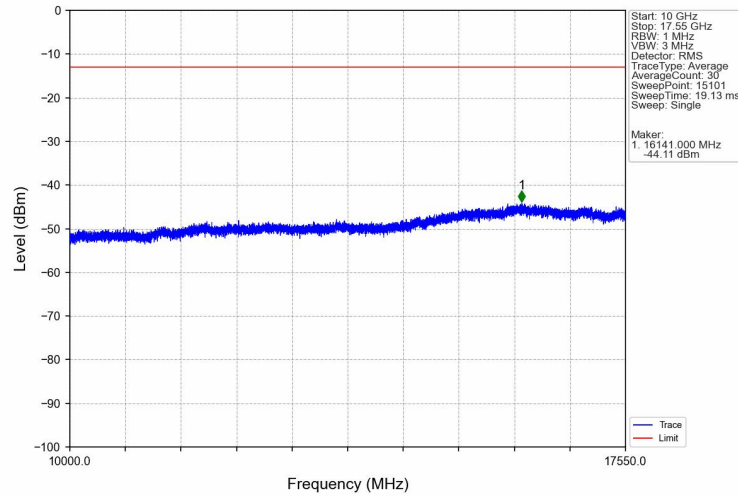
### Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_0\_NTNV



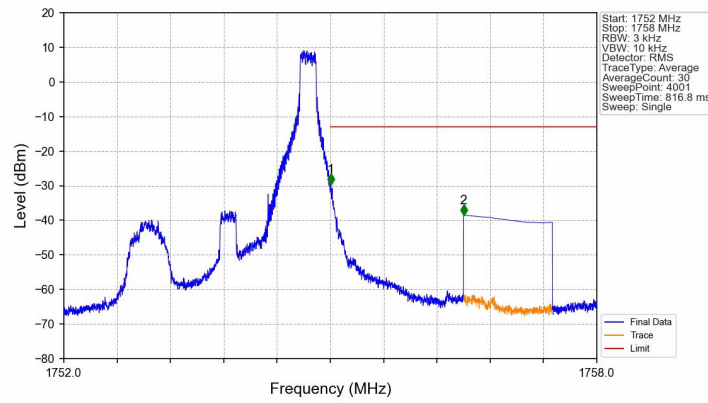
### Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_0\_NTNV



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



### Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_5\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.006	-29.75	-13	Pass
1756	1758	1	CHP	2	1756.500	-38.52	-13	Pass