



1. Out of band rejection

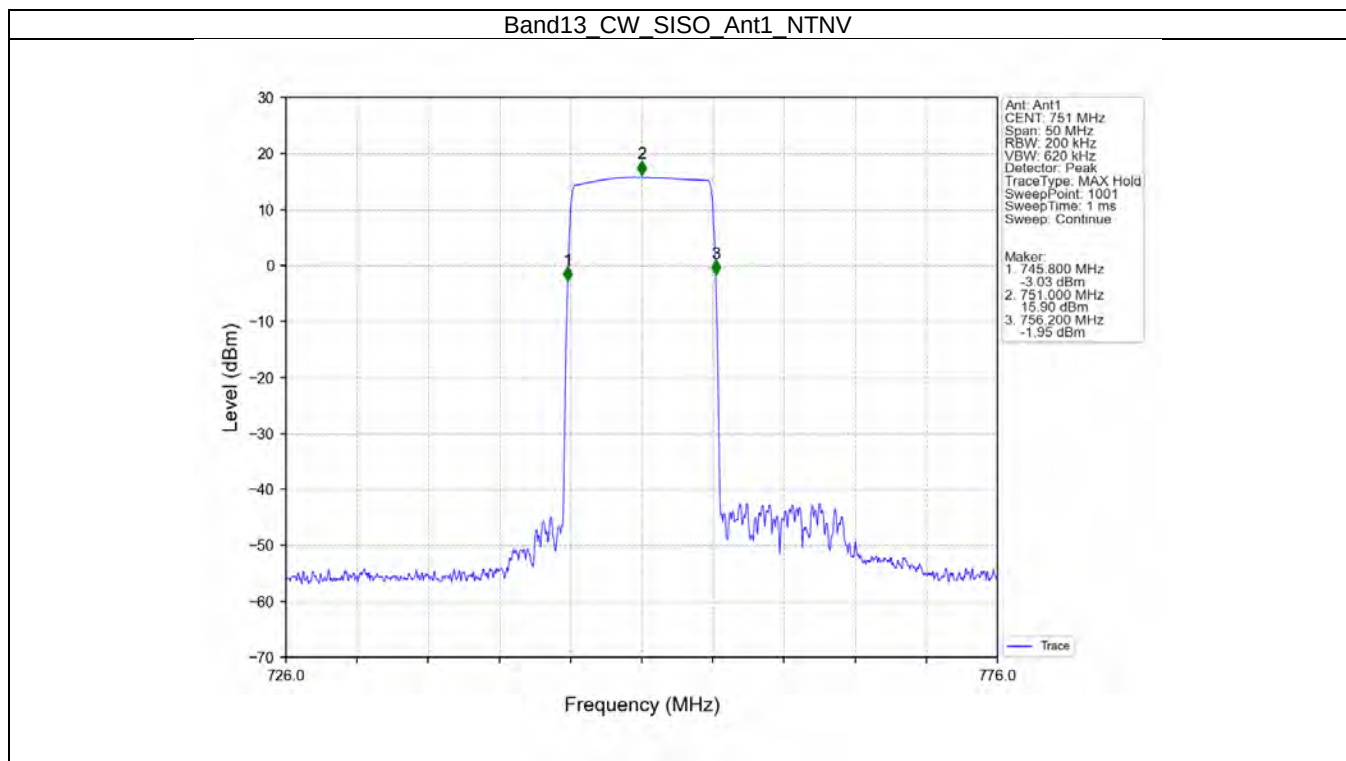
1.1 Test Result

1.1.1 Band13

Band: 13 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	726 - 776	SISO	1	751.000	745.800	756.200	Pass

1.2 Test Graph

1.2.1 Band13





2. AGC threshold

2.1 Test Result

2.1.1 Band13

Band: 13 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
GMSK 0.2MHz	751	SISO	1	-1.20	Pass
AWGN 5MHz	751	SISO	1	-1.20	Pass
AWGN 100MHz	751	SISO	1	-1.20	Pass

3. Input-versus-output signal comparison

3.1 Test Result

3.1.1 Band13_OBW

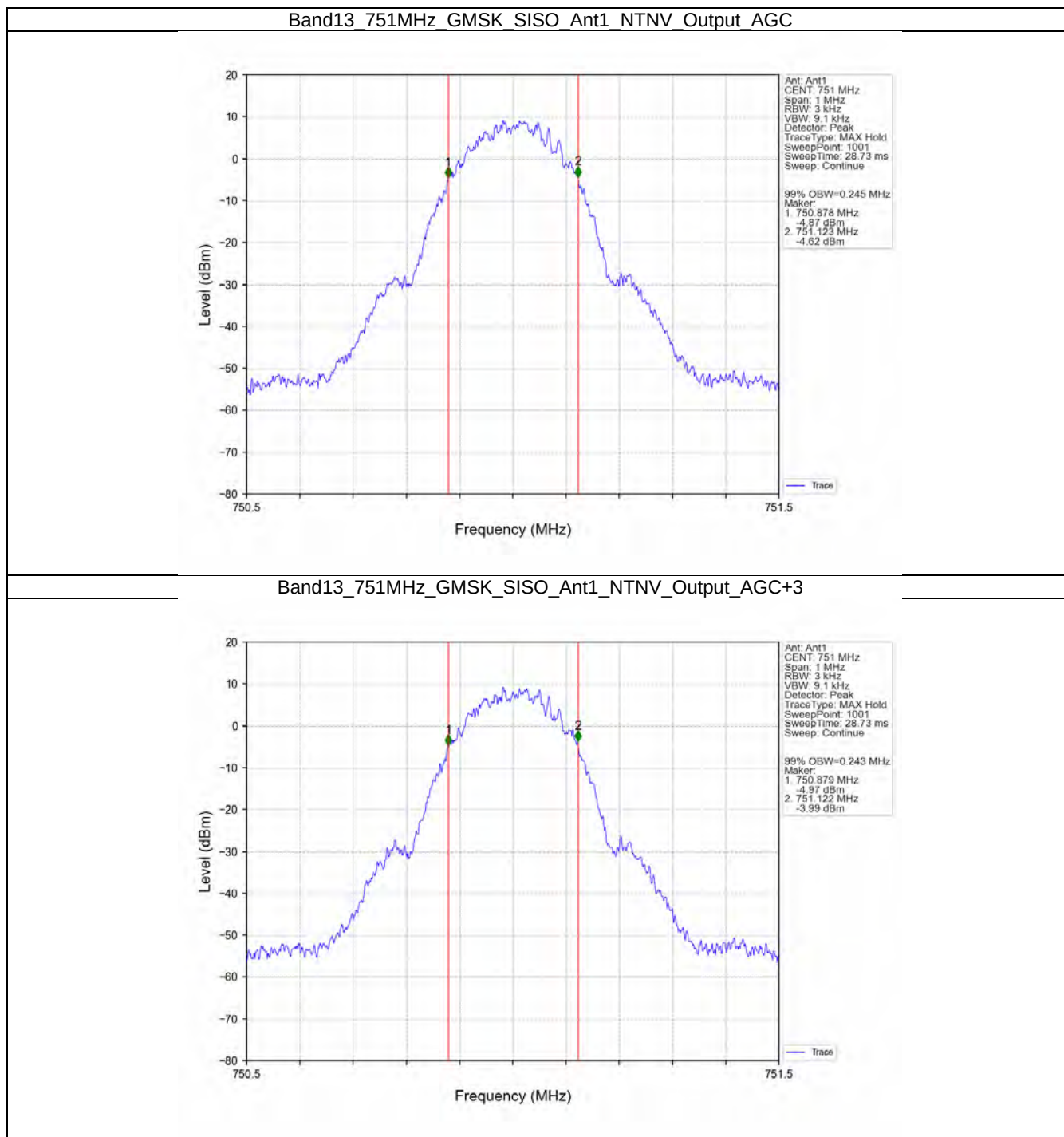
Band: 13 / NTNV							
Signal			TX Type	ANT	99% OBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK 0.2MHz	1.8	751	SISO	1	0.245	0.245	Pass
	-1.2	751	SISO	1	0.243	0.245	Pass
AWGN 5MHz	1.8	751	SISO	1	4.548	4.547	Pass
	-1.2	751	SISO	1	4.531	4.536	Pass
AWGN 100MHz	1.8	751	SISO	1	10.453	97.467	Pass
	-1.2	751	SISO	1	10.585	97.345	Pass

3.1.2 Band13_EBW

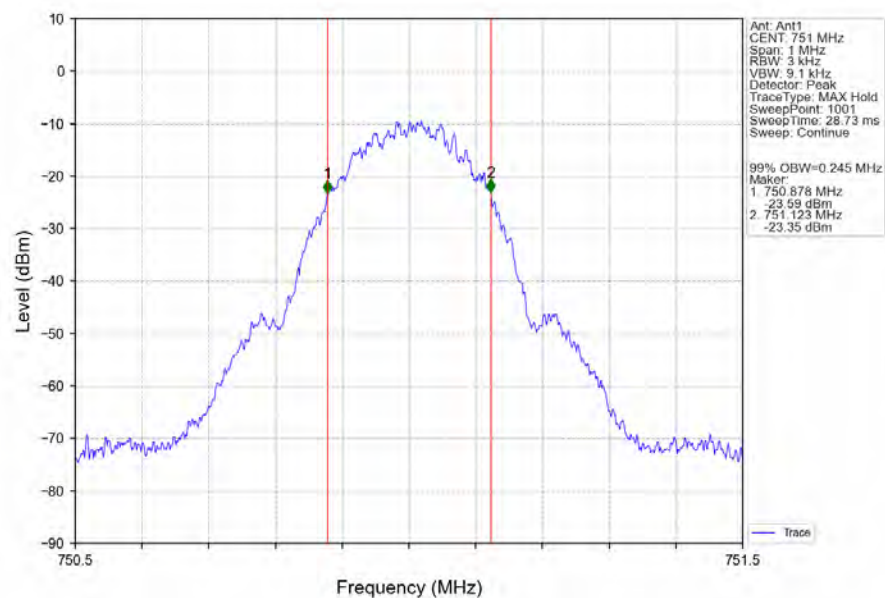
Band: 13 / NTNV							
Signal			TX Type	ANT	26dB EBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK 0.2MHz	1.8	751	SISO	1	0.315	0.320	Pass
	-1.2	751	SISO	1	0.317	0.316	Pass
AWGN 5MHz	1.8	751	SISO	1	5.132	5.147	Pass
	-1.2	751	SISO	1	5.134	5.130	Pass
AWGN 100MHz	1.8	751	SISO	1	12.232	100.752	Pass
	-1.2	751	SISO	1	12.253	100.764	Pass

3.2 Test Graph

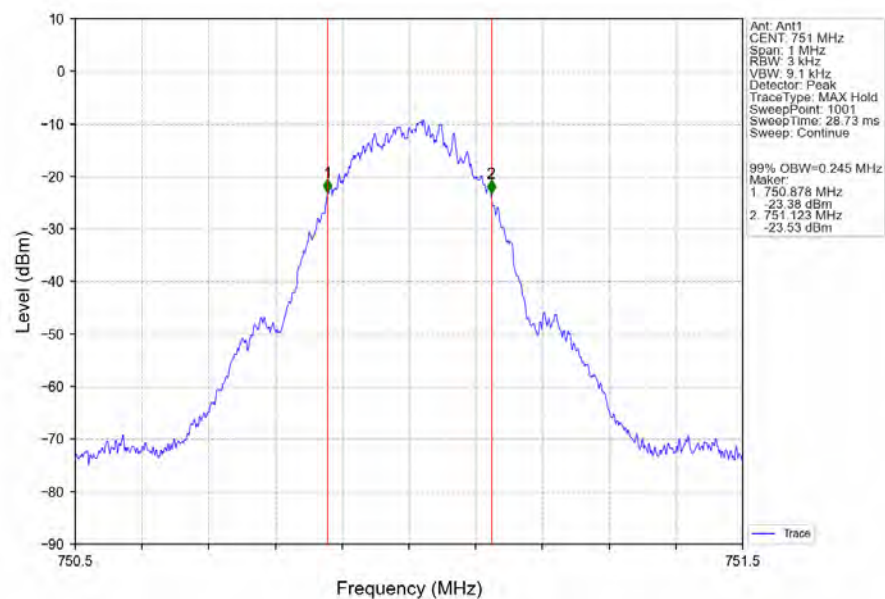
3.2.1 Band13_OBW



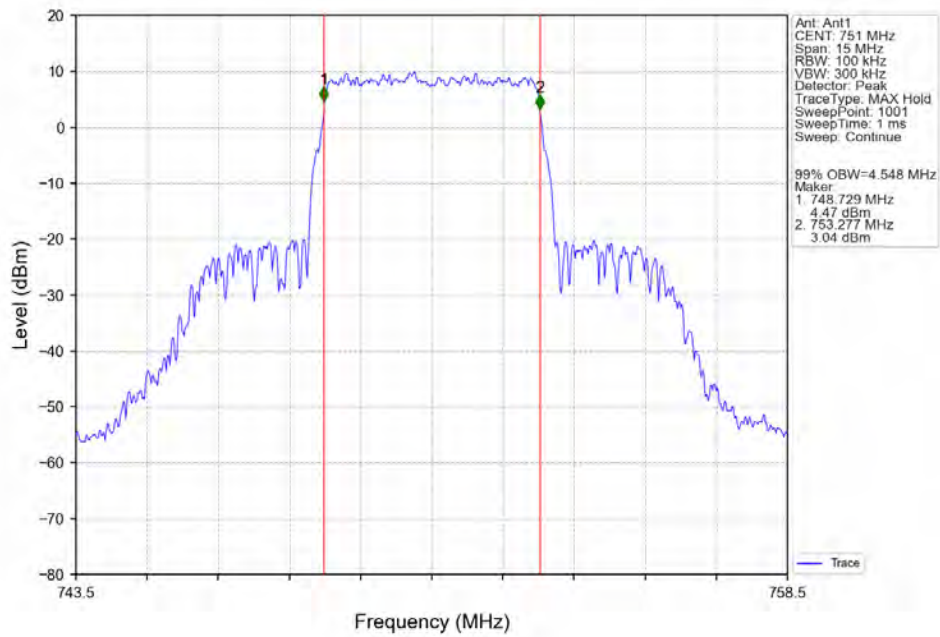
Band13_751MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



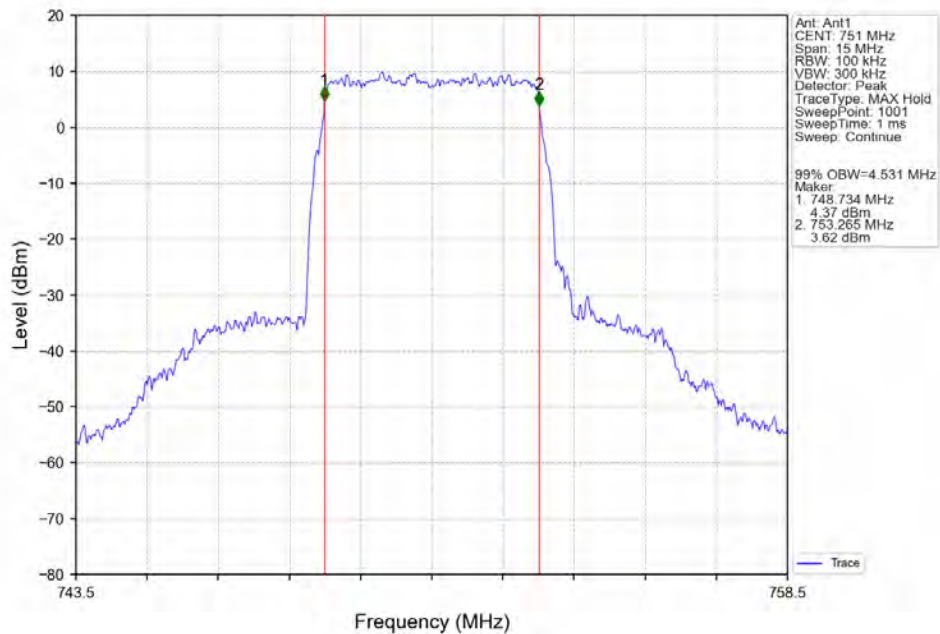
Band13_751MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



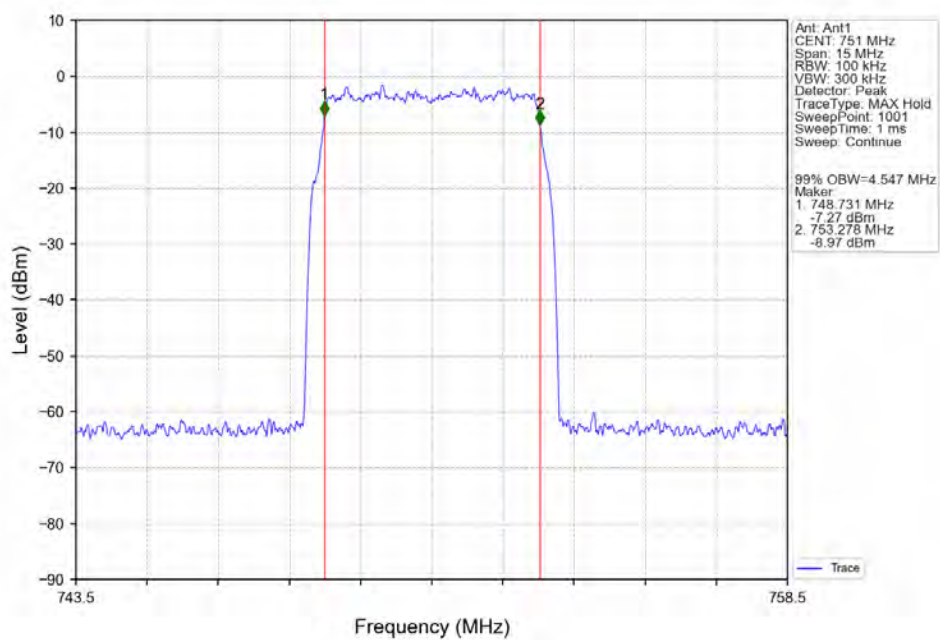
Band13_751MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



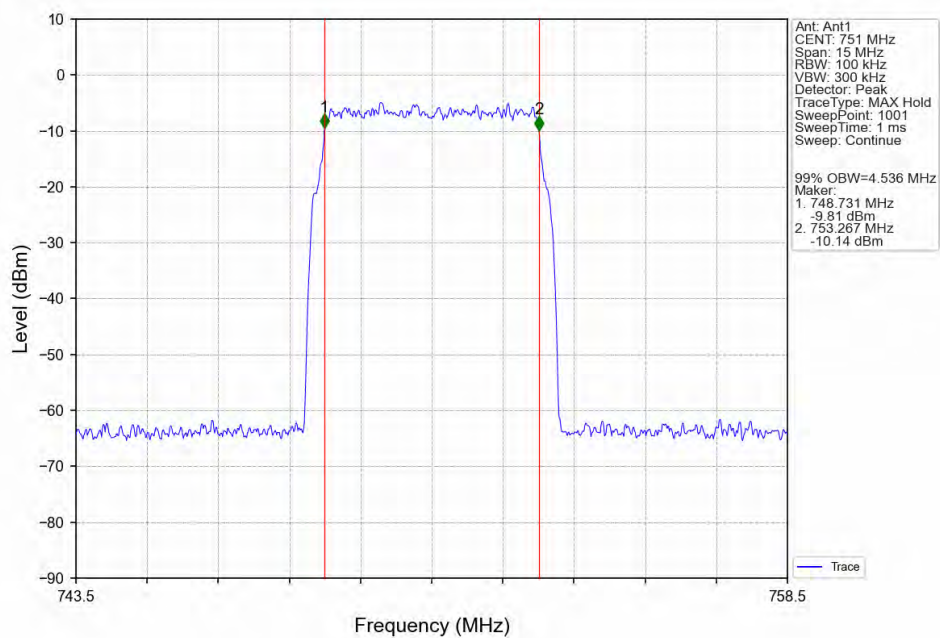
Band13_751MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



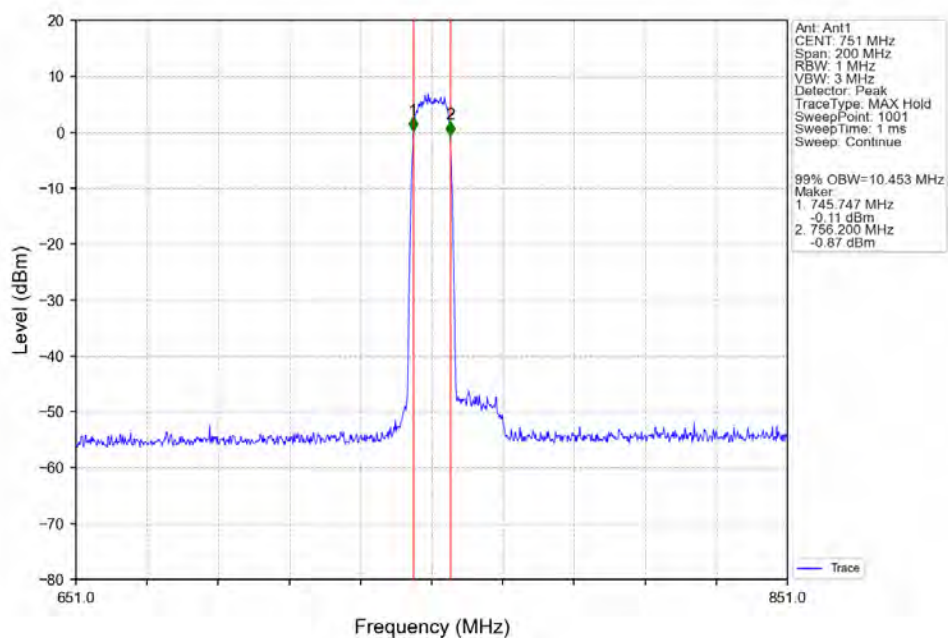
Band13_751MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



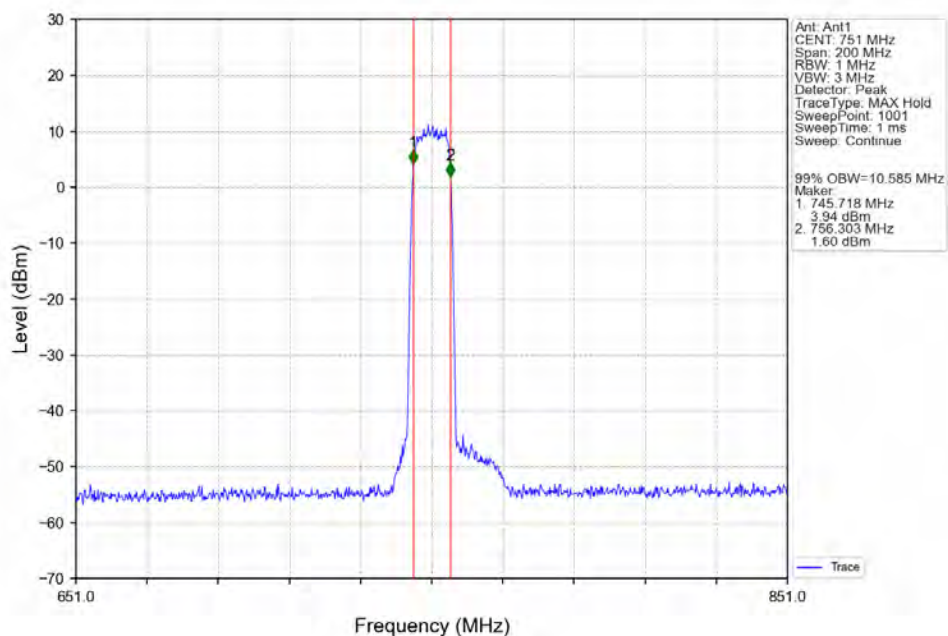
Band13_751MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



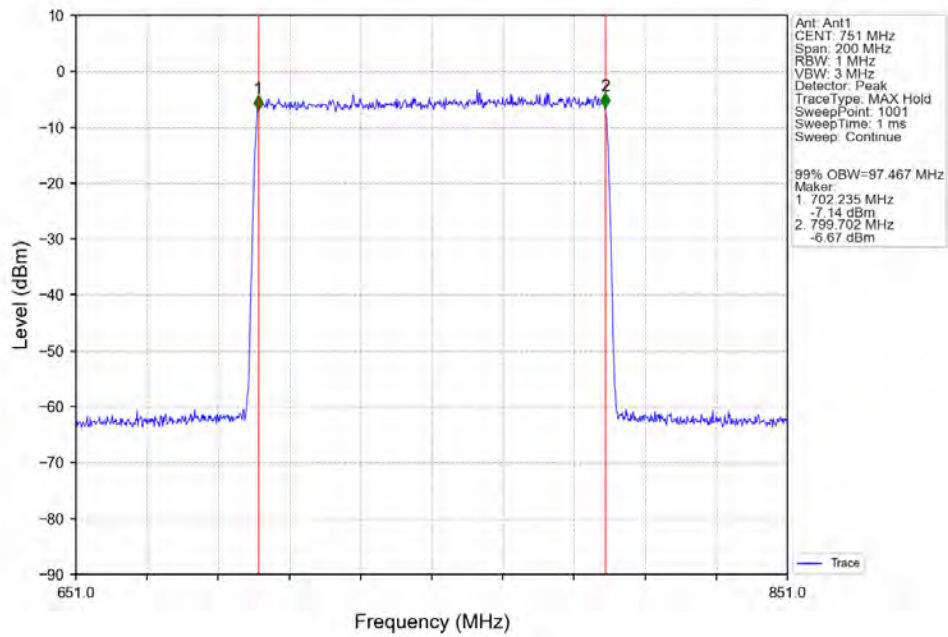
Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



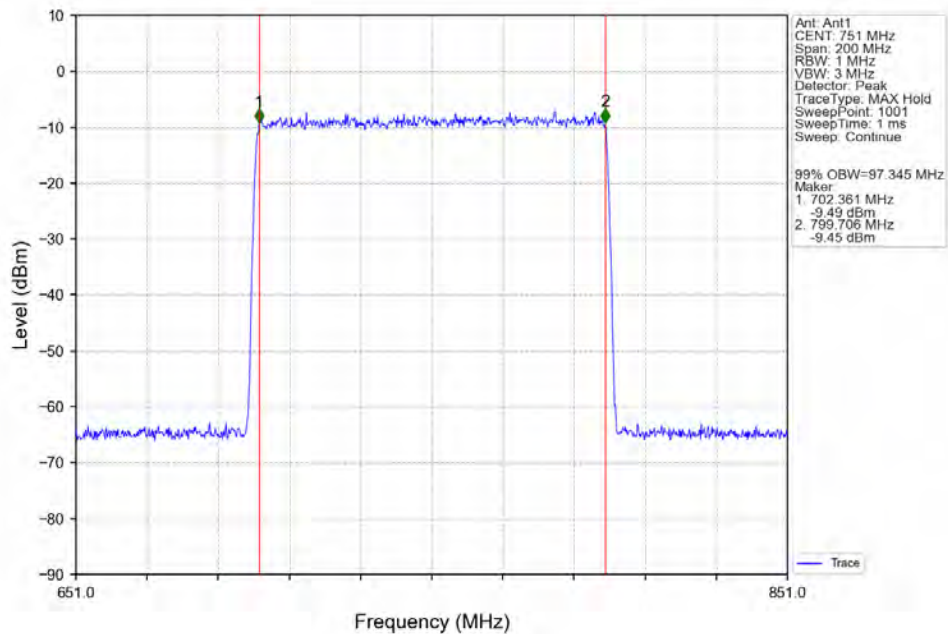
Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



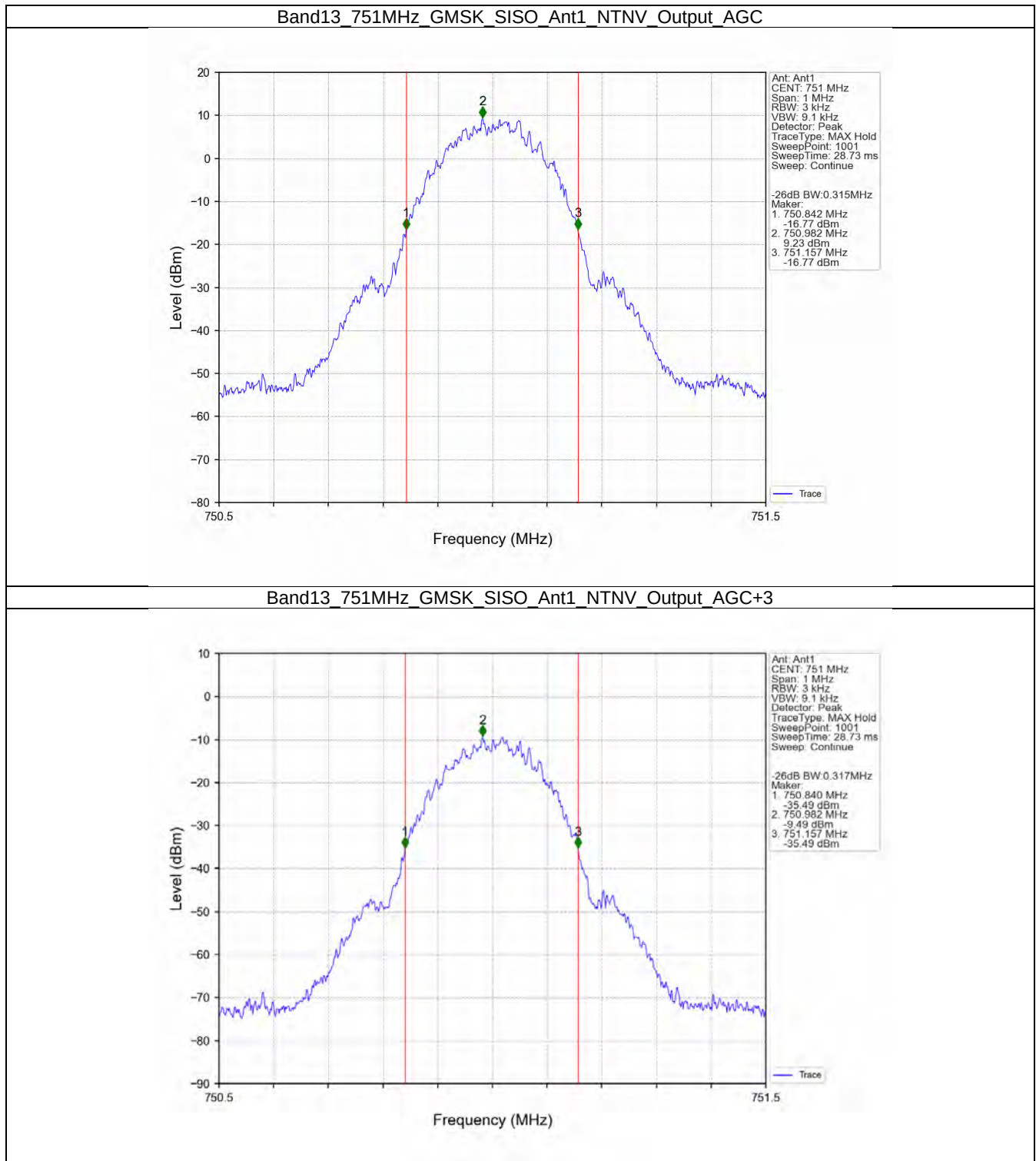
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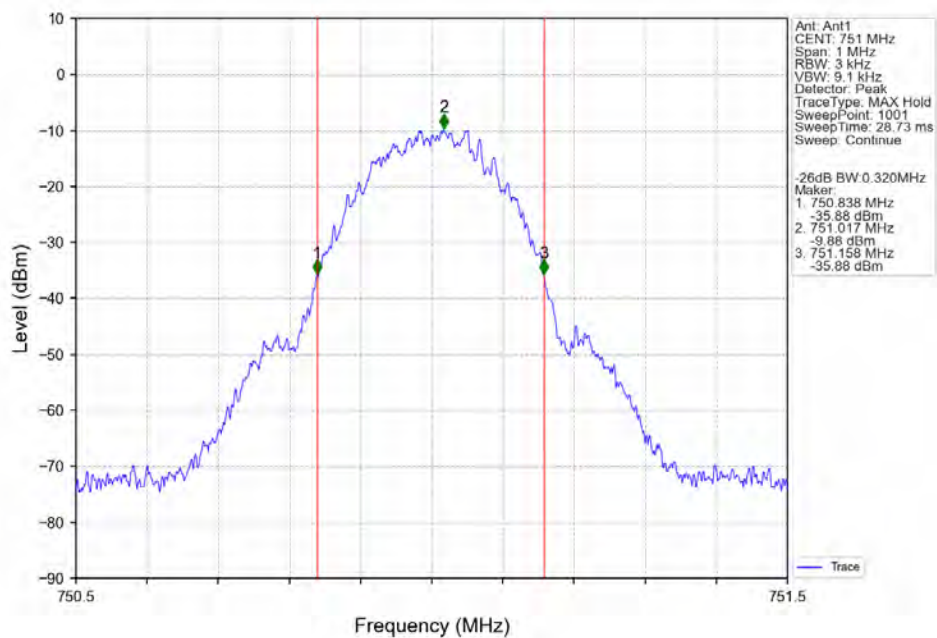
Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3



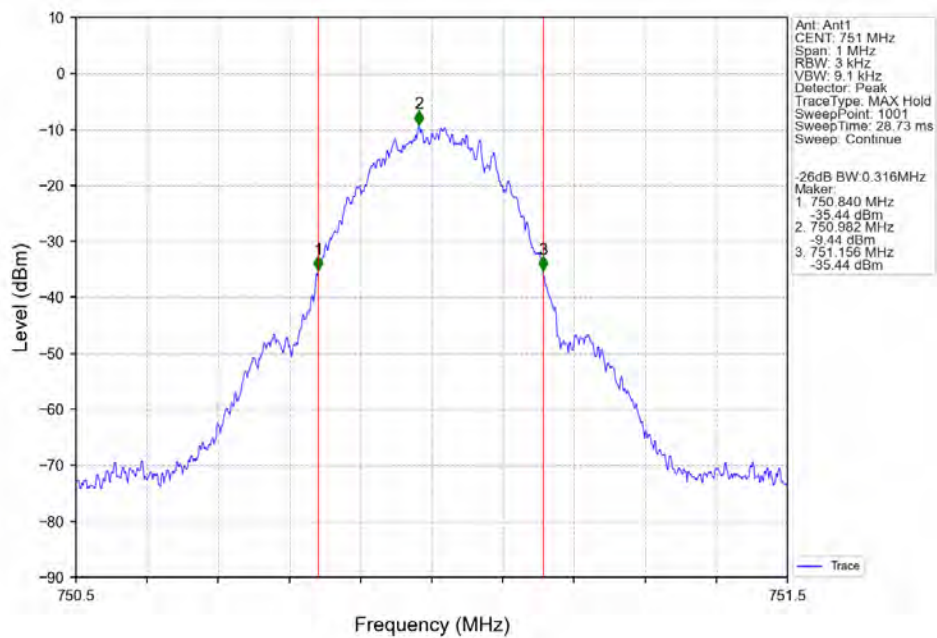
3.2.2 Band13_EBW



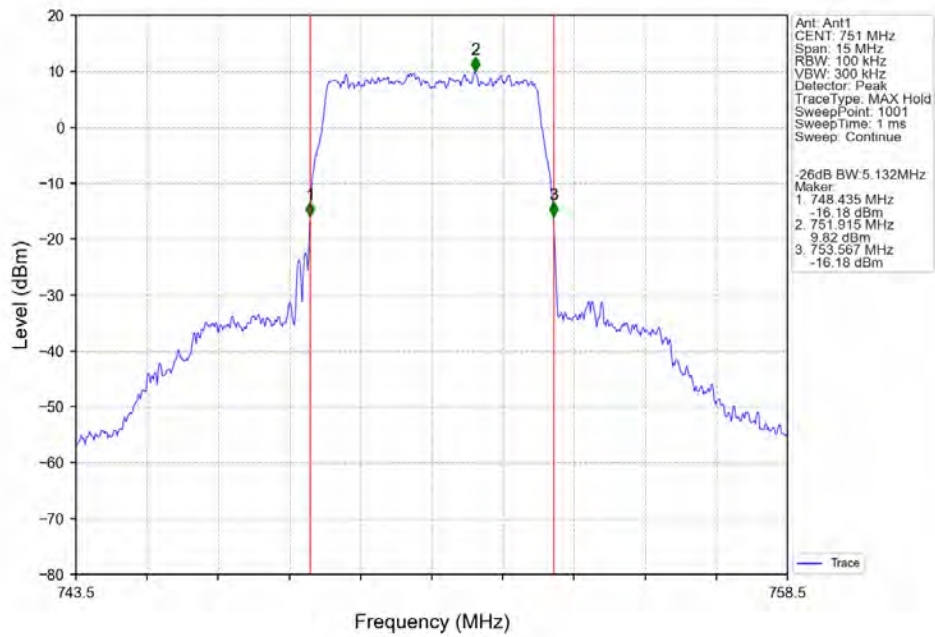
Band13_751MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



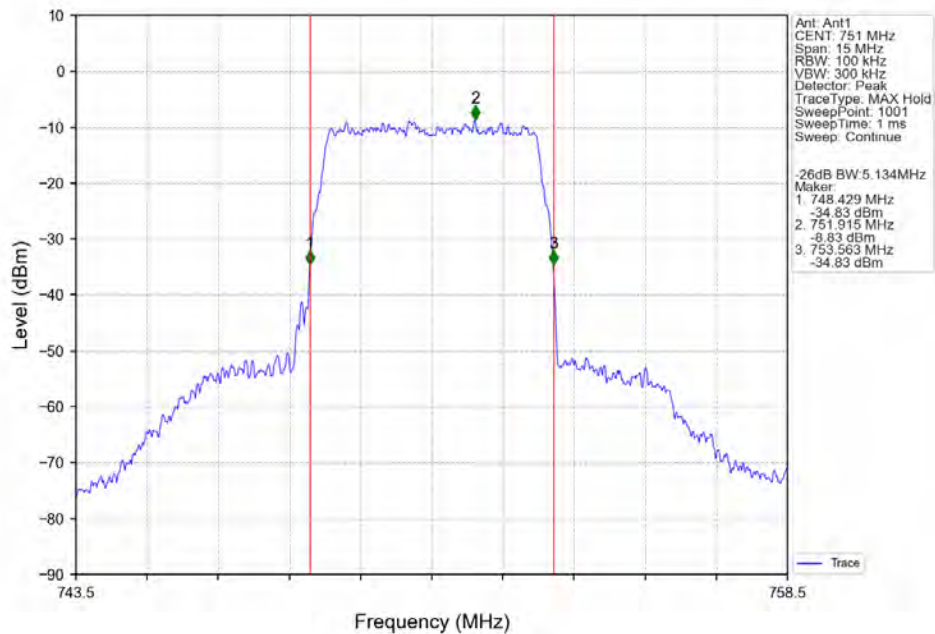
Band13_751MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



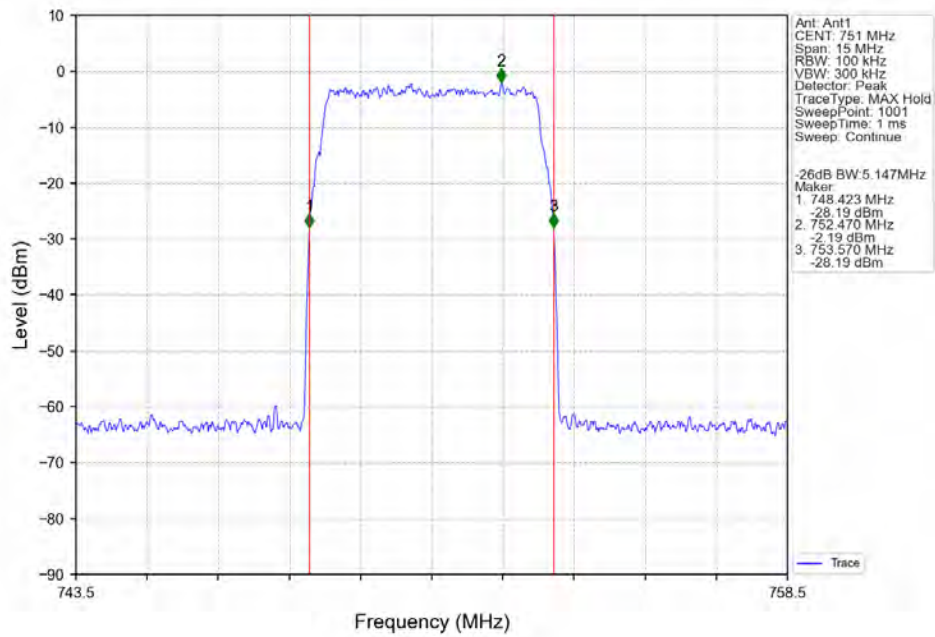
Band13_751MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



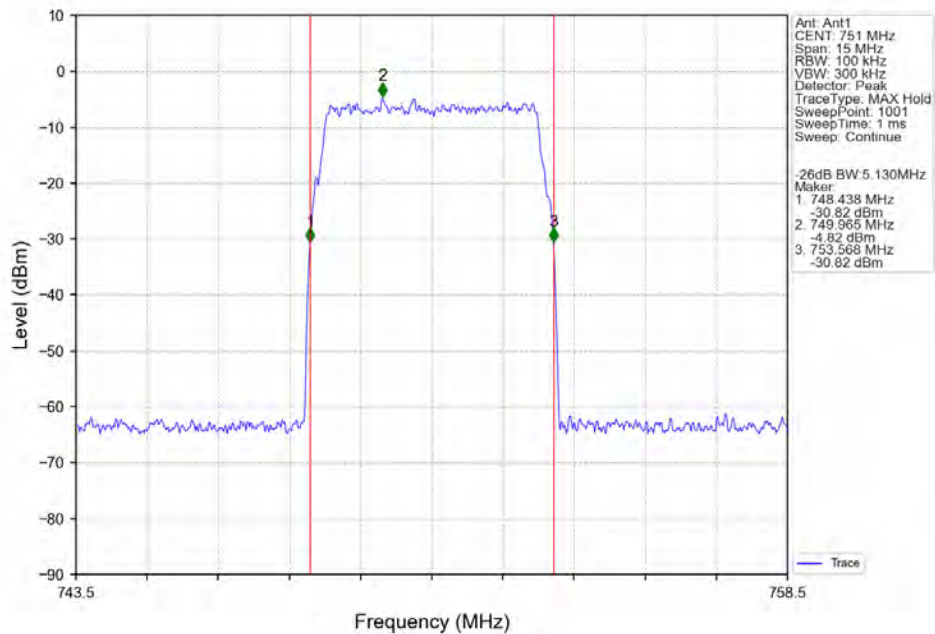
Band13_751MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



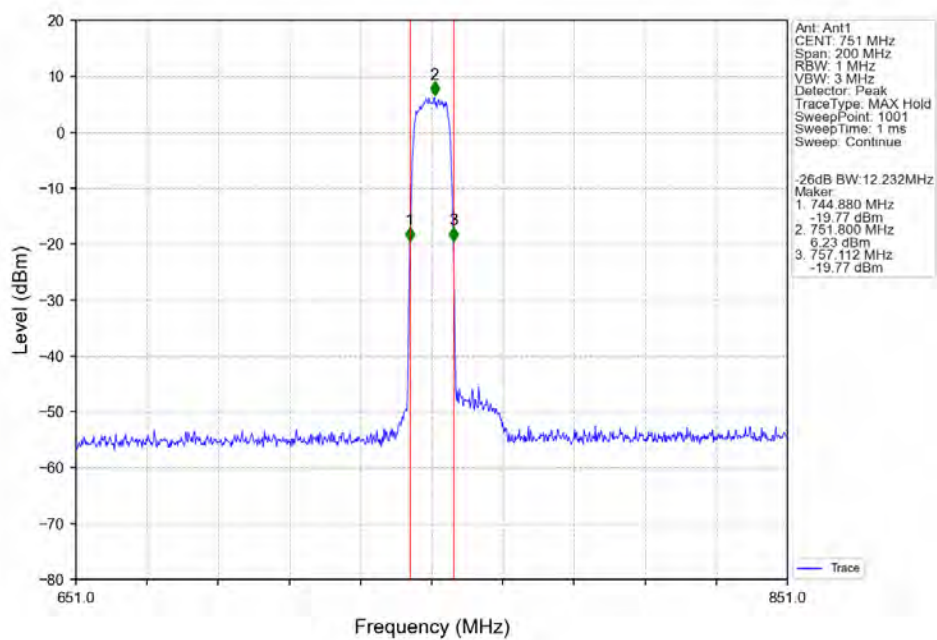
Band13_751MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



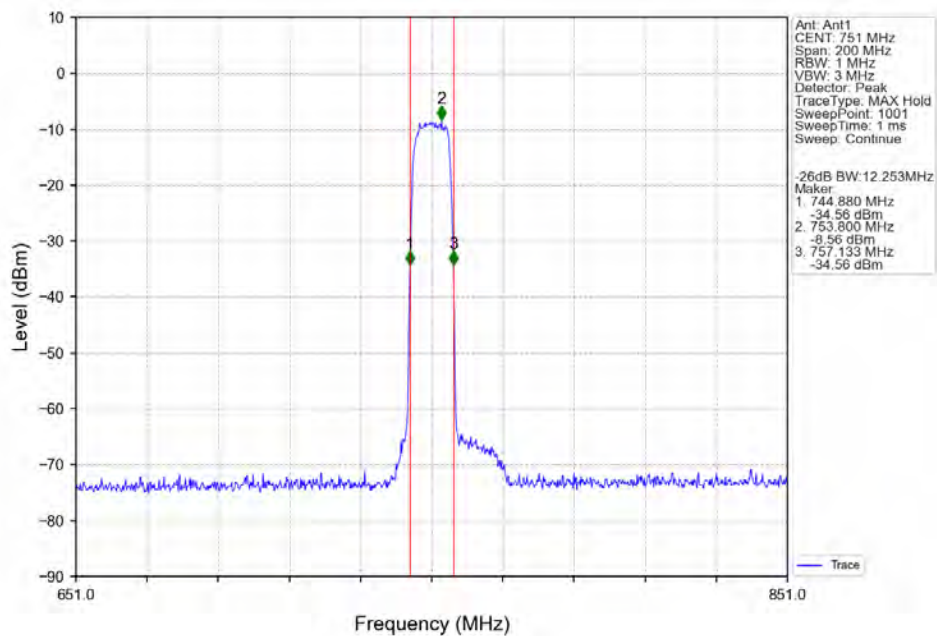
Band13_751MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



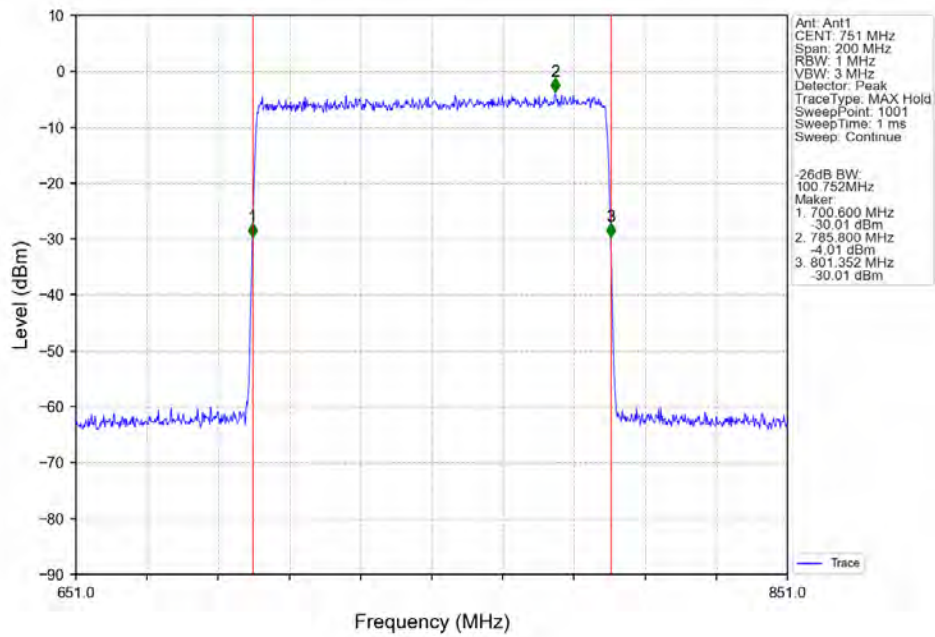
Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



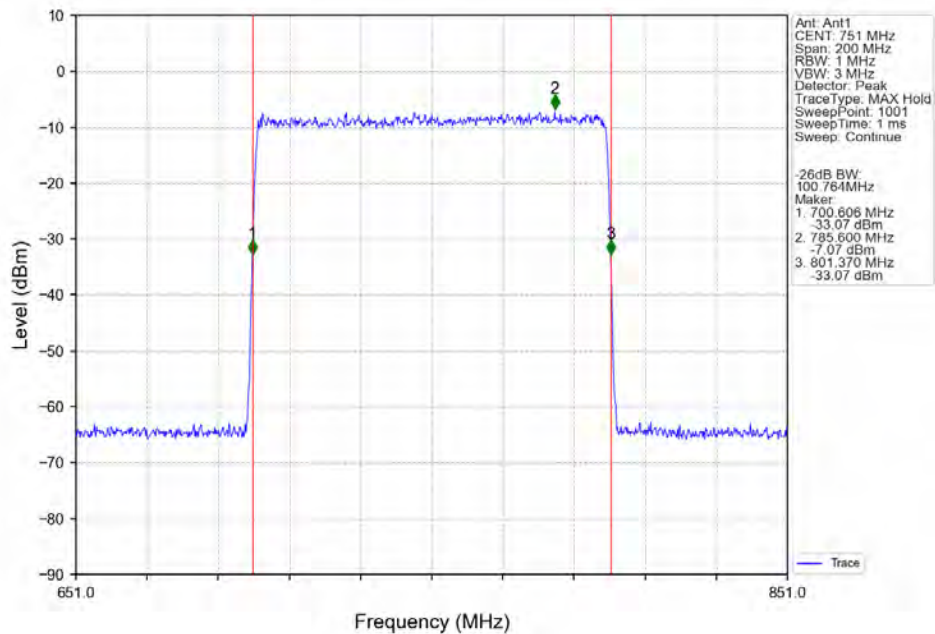
Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC



Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3



4. Input/output power and amplifier/booster gain

4.1 Test Result

4.1.1 Band13_ERP

Band: 13 / NTNV										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		ERP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
GMSK	-1.2	751	SISO	1	16.78	-0.69	16.78	<=60	17.47	Pass
0.2MHz	1.8	751	SISO	1	16.77	2.31	16.77	<=60	/	Pass
AWGN	-1.2	751	SISO	1	10.29	-7.01	10.29	<=60	17.30	Pass
5MHz	1.8	751	SISO	1	10.13	-3.87	10.13	<=60	/	Pass
AWGN	-1.2	751	SISO	1	6.41	-11.20	6.41	<=60	17.61	Pass
100MHz	1.8	751	SISO	1	6.44	-11.28	6.44	<=60	/	Pass

Band: 13 / NTNV								
Signal			Conducted Power (dBm/MHz)		ERP(dBm/MHz)		Limit (dBm)	Verdict
Type	Level (dBm)	Frequency (MHz)	SISO	2*2MIMO	SISO	2*2MIMO		
GMSK	-1.2	751	16.78	19.79	17.63	20.64	/	Pass
0.2MHz	1.8	751	16.77	19.78	17.62	20.63	/	Pass
AWGN	-1.2	751	10.29	13.30	11.14	14.15	/	Pass
5MHz	1.8	751	10.13	13.14	10.98	13.99	/	Pass
AWGN	-1.2	751	6.41	9.42	7.26	10.27	/	Pass
100MHz	1.8	751	6.44	9.45	7.29	10.3	/	Pass

Band: 13 / NTNV								
Signal			Conducted Power (dBm)		ERP(dBm)		Limit (dBm)	Verdict
Type	Level (dBm)	Frequency (MHz)	SISO	2*2MIMO	SISO	2*2MIMO		
GMSK	-1.2	751	16.78	19.79	17.63	20.64	/	Pass
0.2MHz	1.8	751	16.77	19.78	17.62	20.63	/	Pass
AWGN	-1.2	751	17.28	20.29	18.13	21.14	/	Pass
5MHz	1.8	751	17.12	20.13	17.97	20.98	/	Pass
AWGN	-1.2	751	16.41	19.42	17.26	20.27	/	Pass
100MHz	1.8	751	16.44	19.45	17.29	20.30	/	Pass

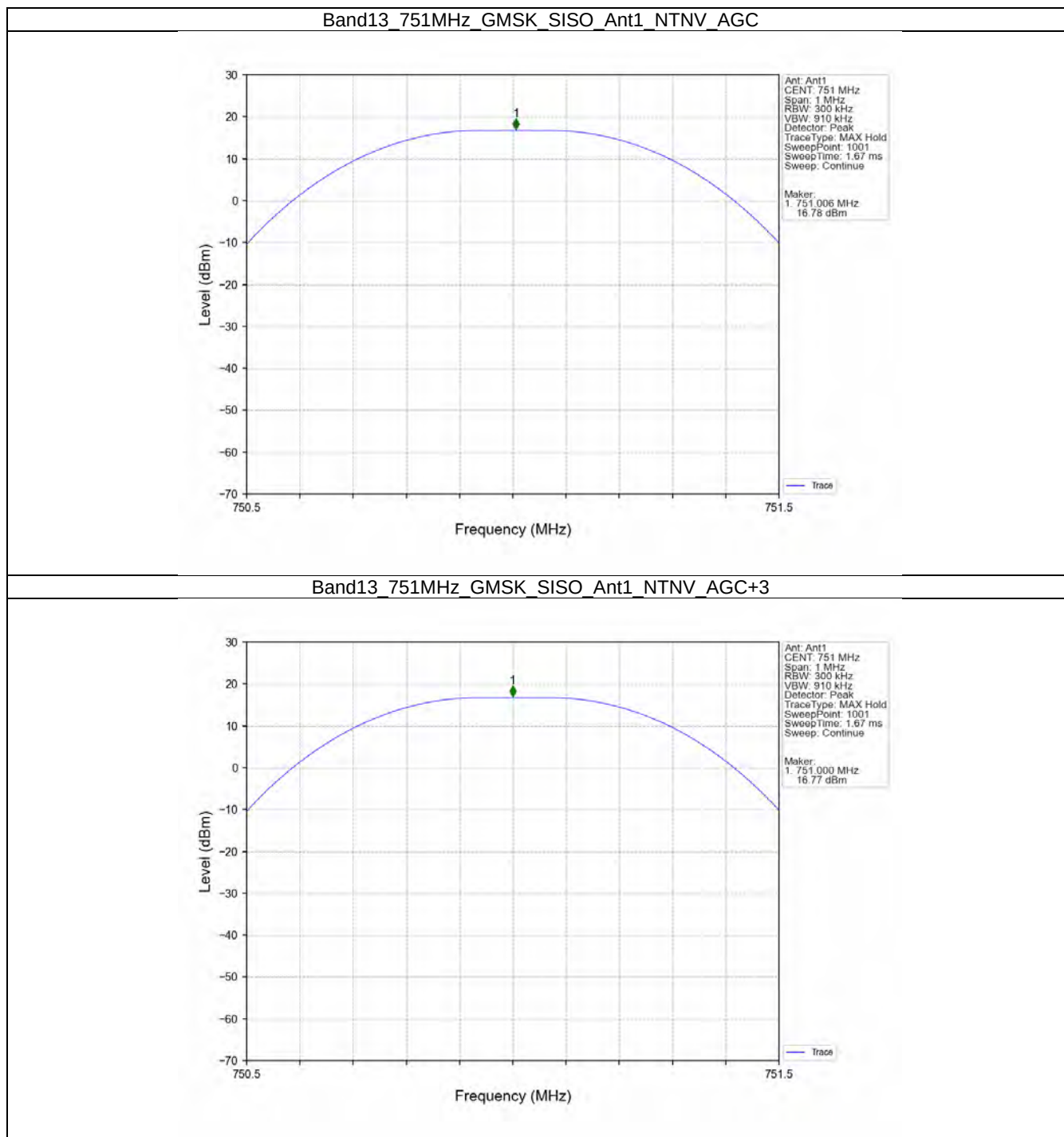


4.1.2 Band13_PAPR

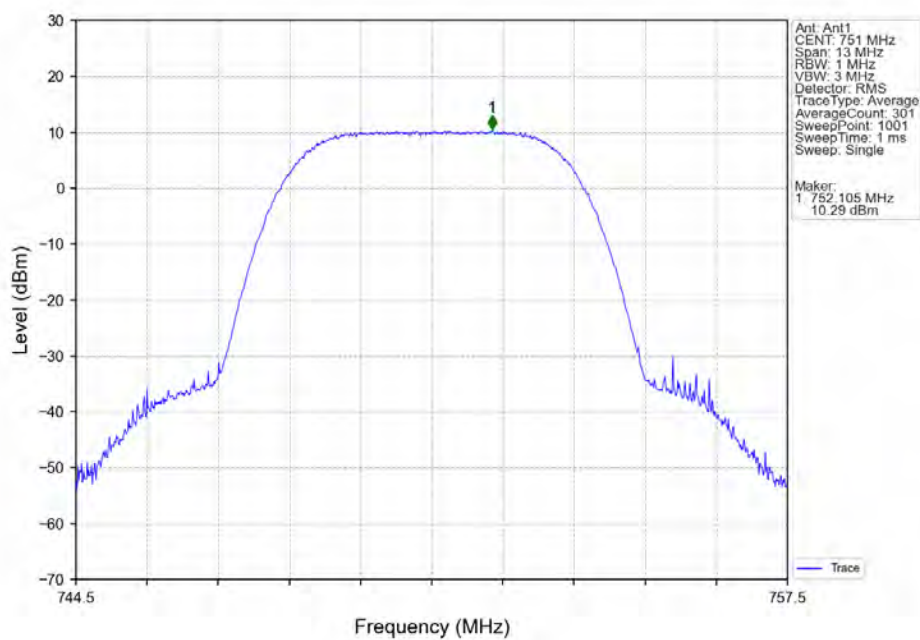
Band: 13 / NTNV							
Signal			TX Type	ANT	PAPR (dB)		Verdict
Type	Level (dBm)	Frequency (MHz)			Result	Limit	
GMSK 0.2MHz	-1.2	751	SISO	1	0.31	<=13	Pass
	1.8	751	SISO	1	0.28	<=13	Pass
AWGN 5MHz	-1.2	751	SISO	1	8.49	<=13	Pass
	1.8	751	SISO	1	8.48	<=13	Pass
AWGN 100MHz	-1.2	751	SISO	1	8.41	<=13	Pass
	1.8	751	SISO	1	8.41	<=13	Pass

4.2 Test Graph

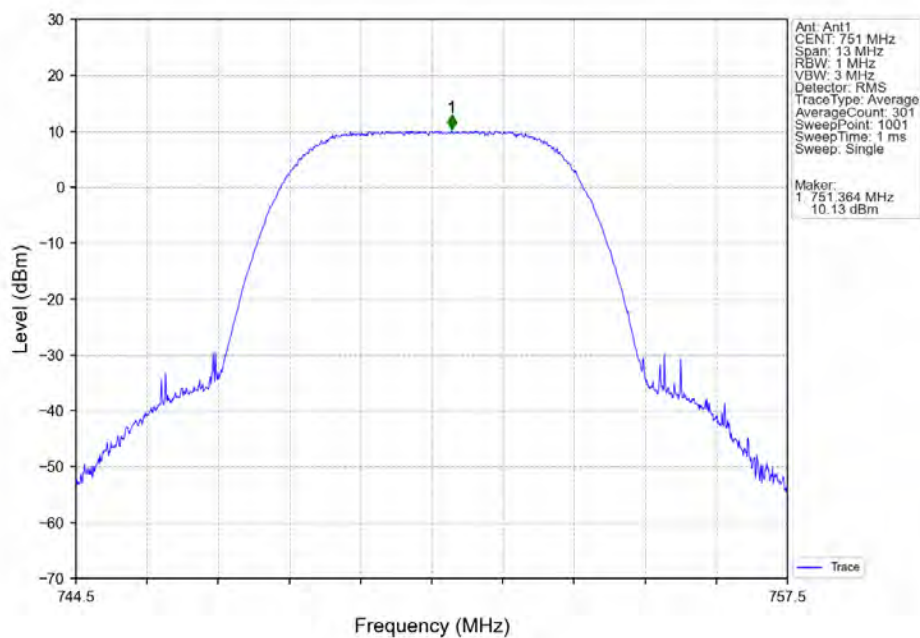
4.2.1 Band13_ERP



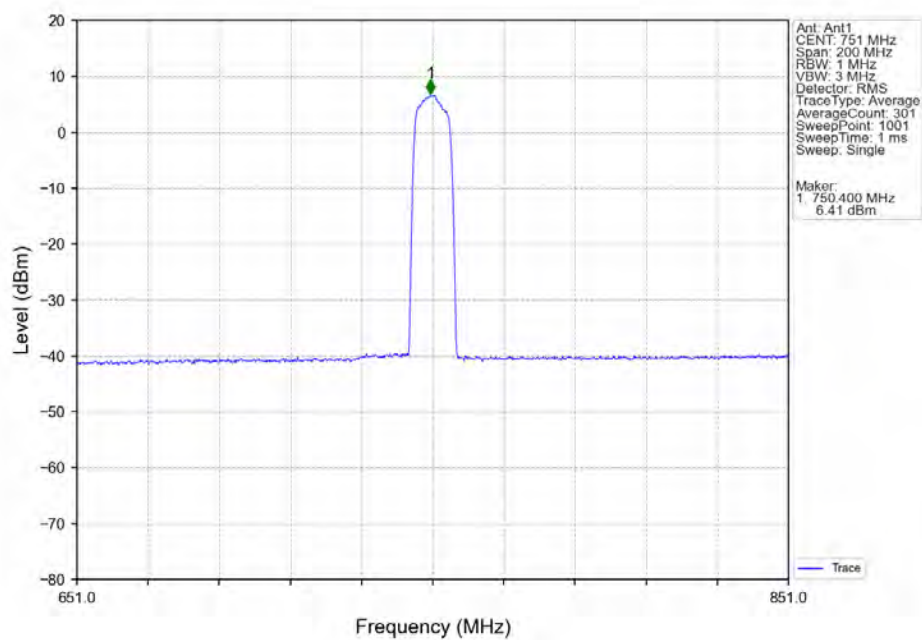
Band13_751MHz_AWGN_SISO_Ant1_NTNV_AGC



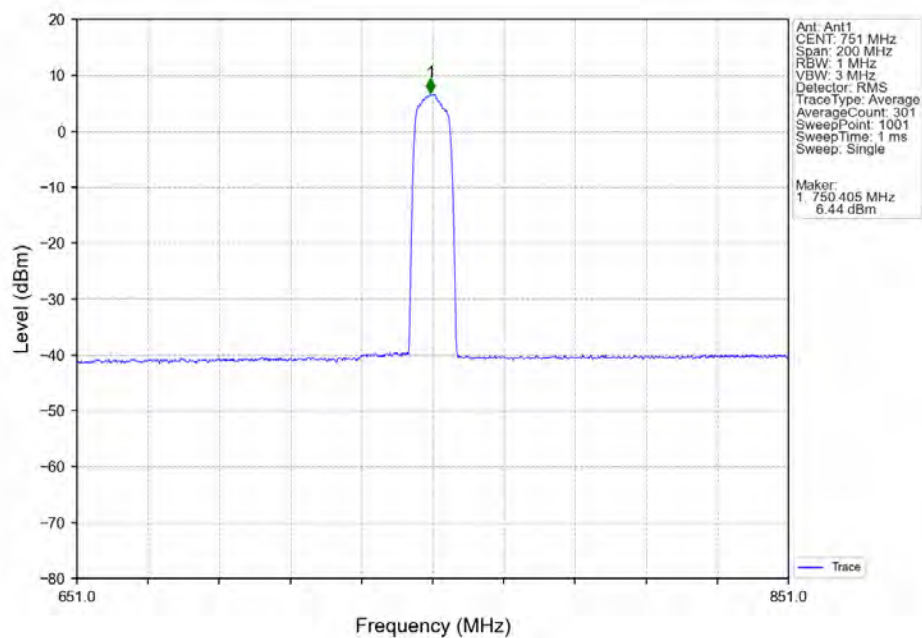
Band13_751MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



4.2.2 Band13_PAPR

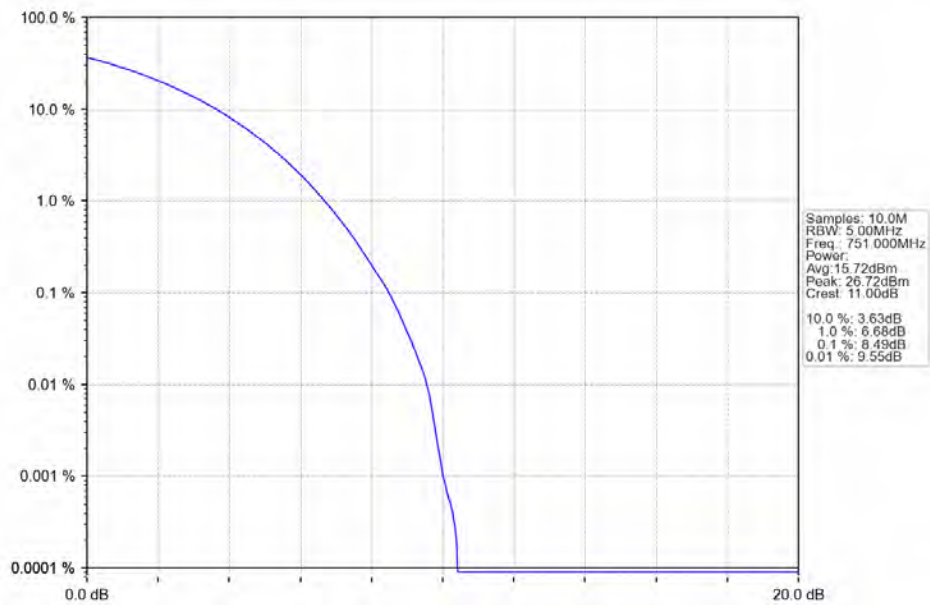
Band13_751MHz_GMSK_SISO_Ant1_NTNV_AGC



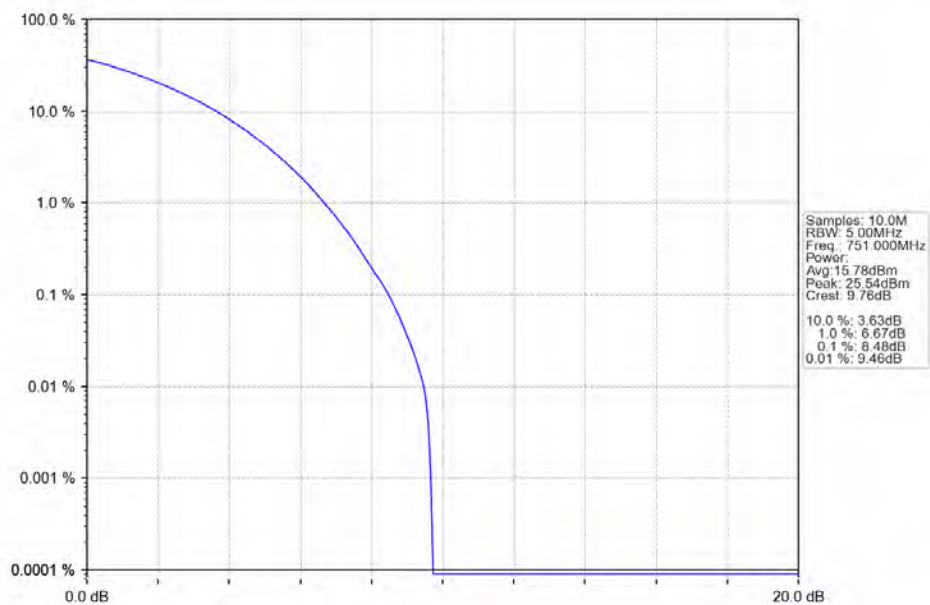
Band13_751MHz_GMSK_SISO_Ant1_NTNV_AGC+3



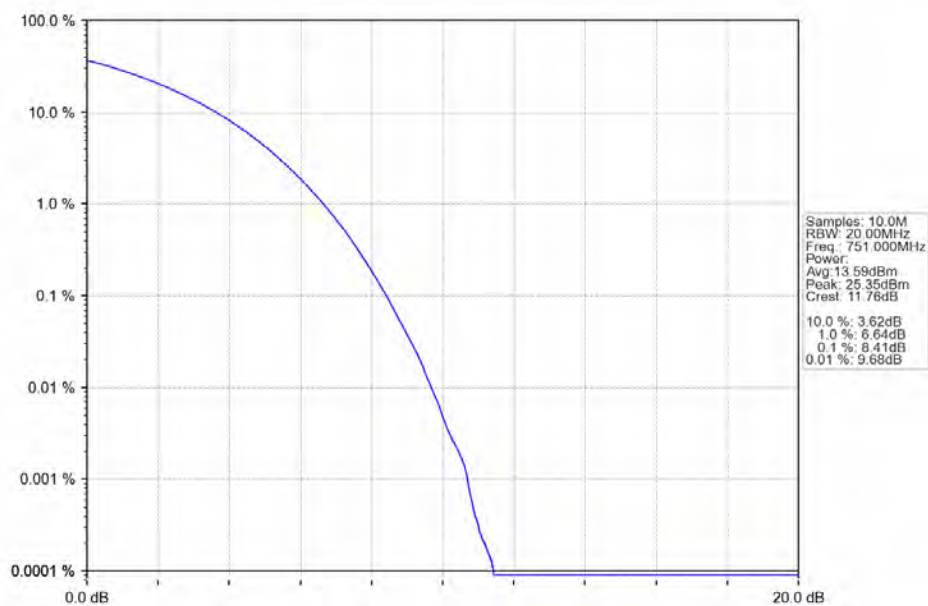
Band13_751MHz_AWGN_SISO_Ant1_NTNV_AGC



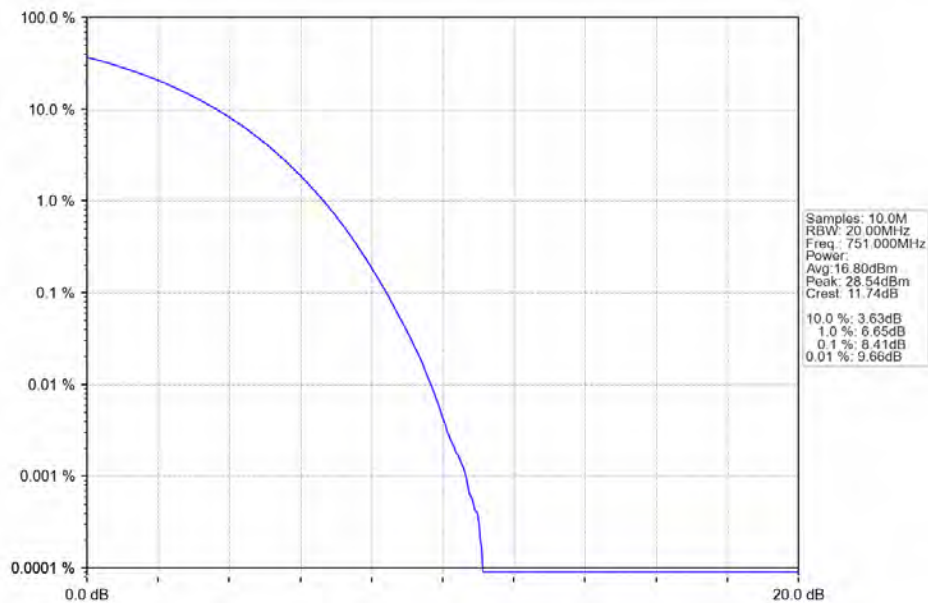
Band13_751MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



5. Out-of-band/out-of-block (including intermodulation) emissions

5.1 Test Result

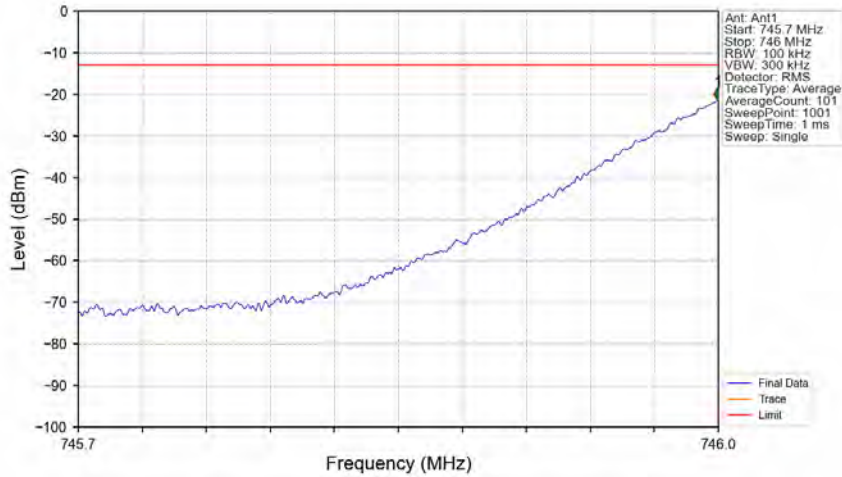
5.1.1 Band13

Band: 13 / NTVN									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	GMSK 0.2MHz	-1.2	746.2	LCH	SISO	1	-18.41	Refer To Test Graph	Pass
		1.8	746.2	LCH	SISO	1	-18.92	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-1.2	746.2	LCH	SISO	1	-20.60	Refer To Test Graph	Pass
		1.8	746.2	LCH	SISO	1	-19.39	Refer To Test Graph	Pass
Two	GMSK 0.2MHz	-1.2	755.8	HCH	SISO	1	-18.83	Refer To Test Graph	Pass
		1.8	755.8	HCH	SISO	1	-19.47	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-1.2	755.8	HCH	SISO	1	-18.45	Refer To Test Graph	Pass
		1.8	755.8	HCH	SISO	1	-18.66	Refer To Test Graph	Pass
Two	AWGN 5MHz	-1.2	748.5	LCH	SISO	1	-28.76	Refer To Test Graph	Pass
		1.8	748.5	LCH	SISO	1	-27.87	Refer To Test Graph	Pass
One	AWGN 5MHz	-1.2	748.5	LCH	SISO	1	-28.20	Refer To Test Graph	Pass
		1.8	748.5	LCH	SISO	1	-28.54	Refer To Test Graph	Pass
Two	AWGN 5MHz	-1.2	753.5	HCH	SISO	1	-26.81	Refer To Test Graph	Pass
		1.8	753.5	HCH	SISO	1	-26.63	Refer To Test Graph	Pass
One	AWGN 5MHz	-1.2	753.5	HCH	SISO	1	-27.69	Refer To Test Graph	Pass
		1.8	753.5	HCH	SISO	1	-26.88	Refer To Test Graph	Pass
Two	AWGN 100MHz	-1.2	796	LCH	SISO	1	-46.11	Refer To Test Graph	Pass
		1.8	796	LCH	SISO	1	-42.95	Refer To Test Graph	Pass
One	AWGN 100MHz	-1.2	796	LCH	SISO	1	-55.55	Refer To Test Graph	Pass
		1.8	796	LCH	SISO	1	-51.30	Refer To Test Graph	Pass
Two	AWGN 100MHz	-1.2	706	HCH	SISO	1	-54.61	Refer To Test Graph	Pass
		1.8	706	HCH	SISO	1	-51.27	Refer To Test Graph	Pass
One	AWGN 100MHz	-1.2	706	HCH	SISO	1	-55.06	Refer To Test Graph	Pass
		1.8	706	HCH	SISO	1	-51.34	Refer To Test Graph	Pass
Note: This EUT supports 2*2 MIMO, since we only presented the results of a test port of the worst, so we add the test result 10 * log (2).									

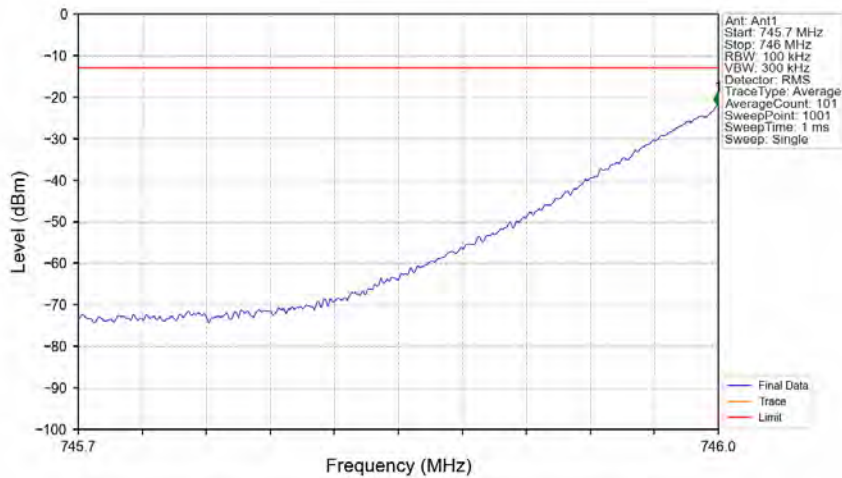
5.2 Test Graph

5.2.1 Band13

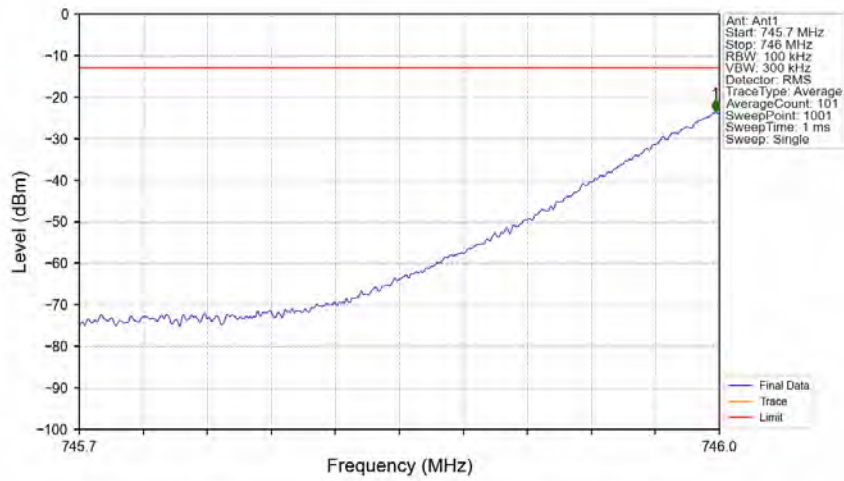
Band13_746.2MHz_GMSK_SISO_Ant1_NTNV_AGC



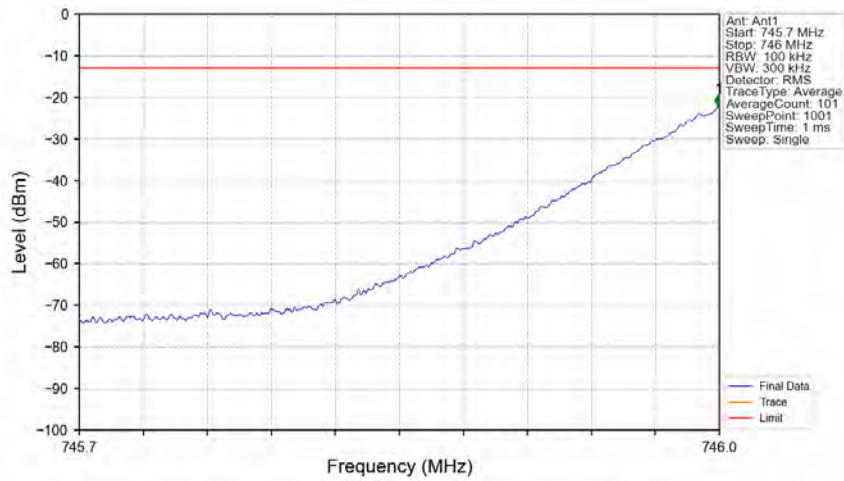
Band13_746.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



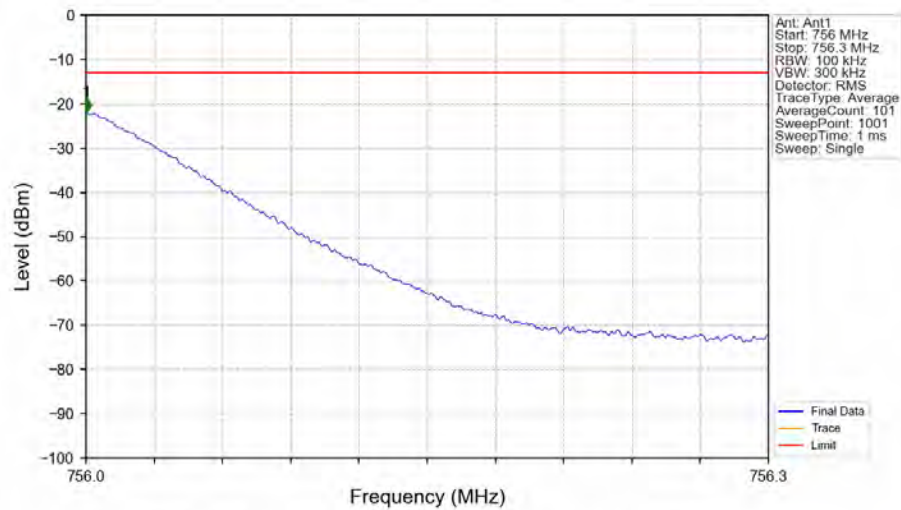
Band13_746.2MHz_GMSK_SISO_Ant1_NTNV_AGC



Band13_746.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3

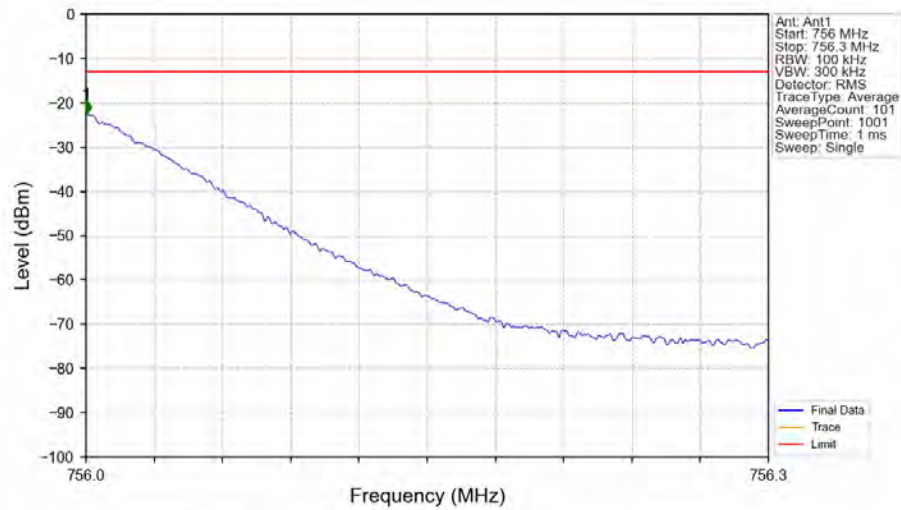


Band13_755.8MHz_GMSK_SISO_Ant1_NTNV_AGC



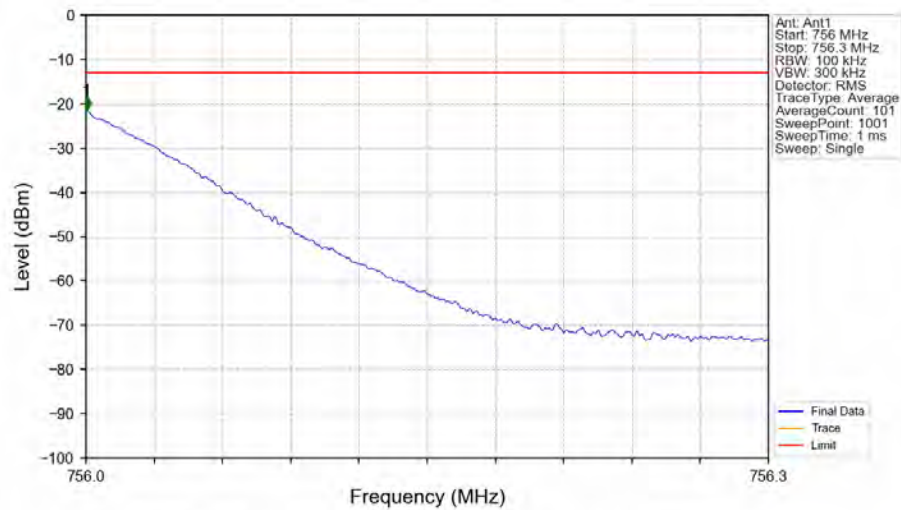
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756	756.3	0.1	/	1	756.000	-21.84	-13	Pass

Band13_755.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3

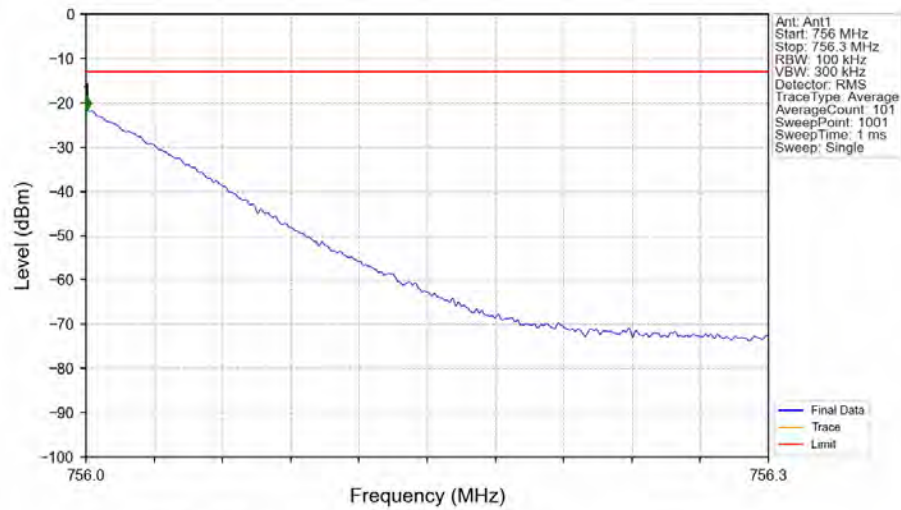


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756	756.3	0.1	/	1	756.000	-22.48	-13	Pass

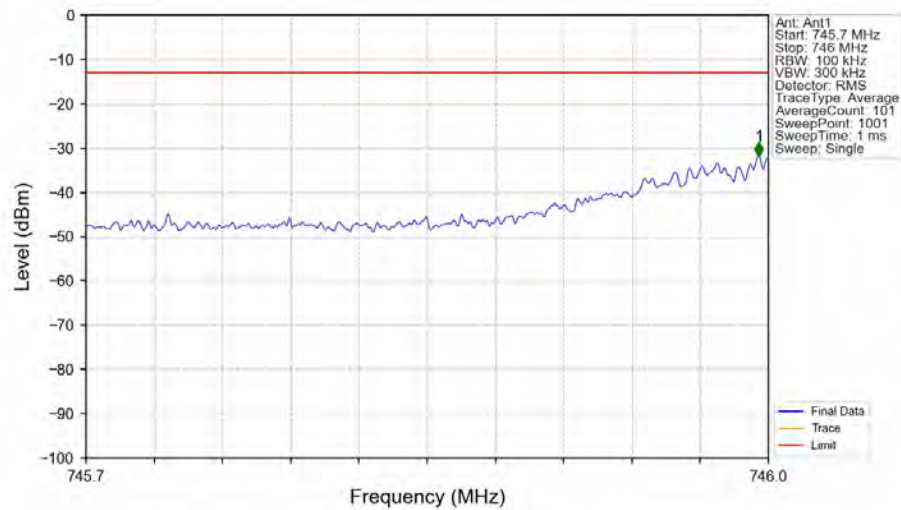
Band13_755.8MHz_GMSK_SISO_Ant1_NTNV_AGC



Band13_755.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3

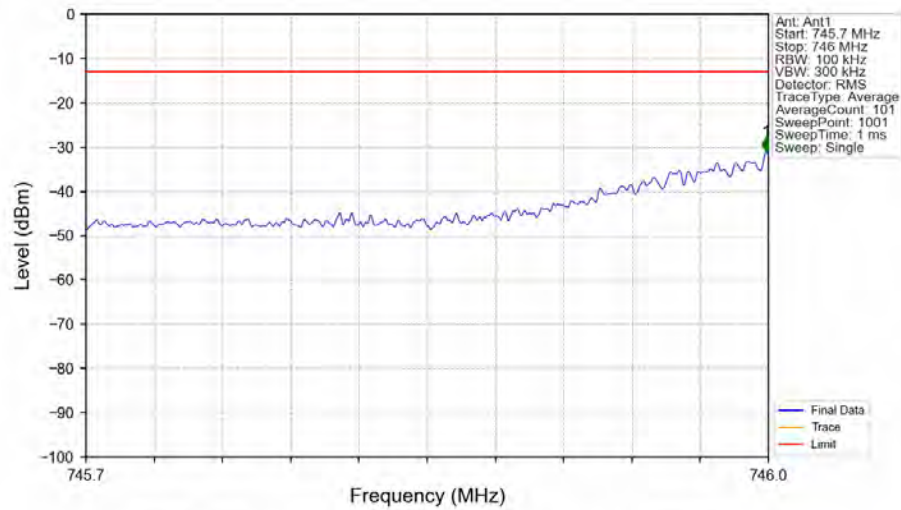


Band13_748.5MHz_AWGN_SISO_Ant1_NTNV_AGC



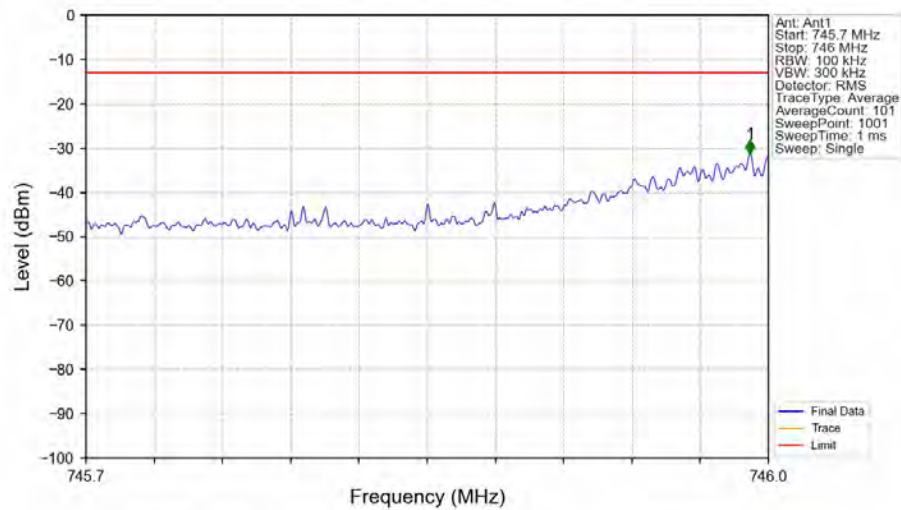
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.7	746	0.1	/	1	745.996	-31.77	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



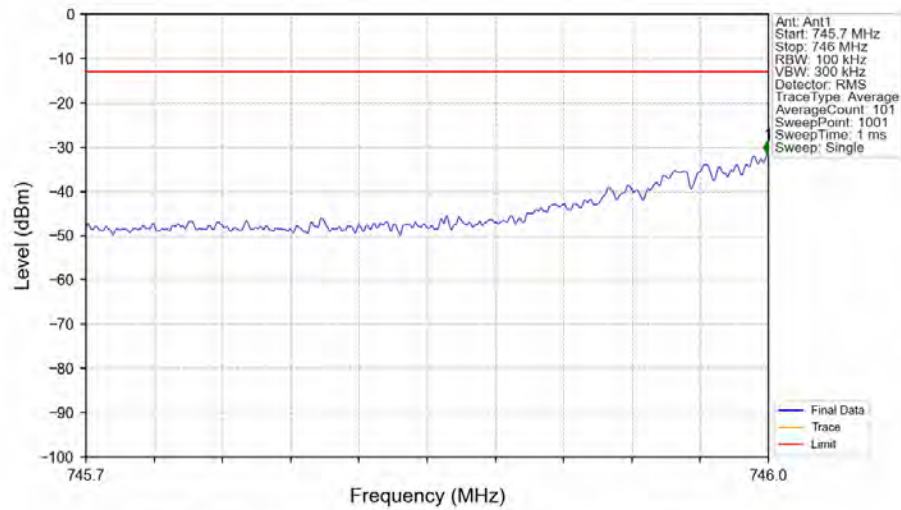
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.7	746	0.1	/	1	745.999	-30.88	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV_AGC



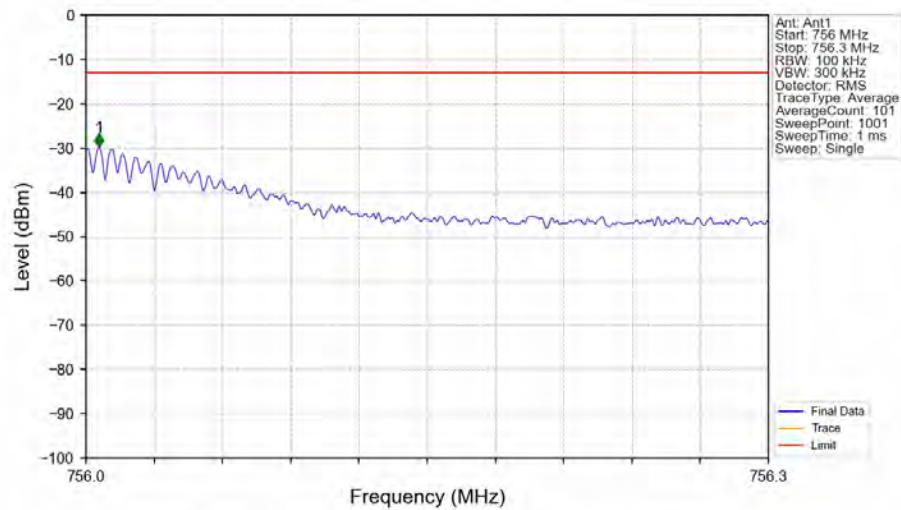
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.7	746	0.1	/	1	745.992	-31.21	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



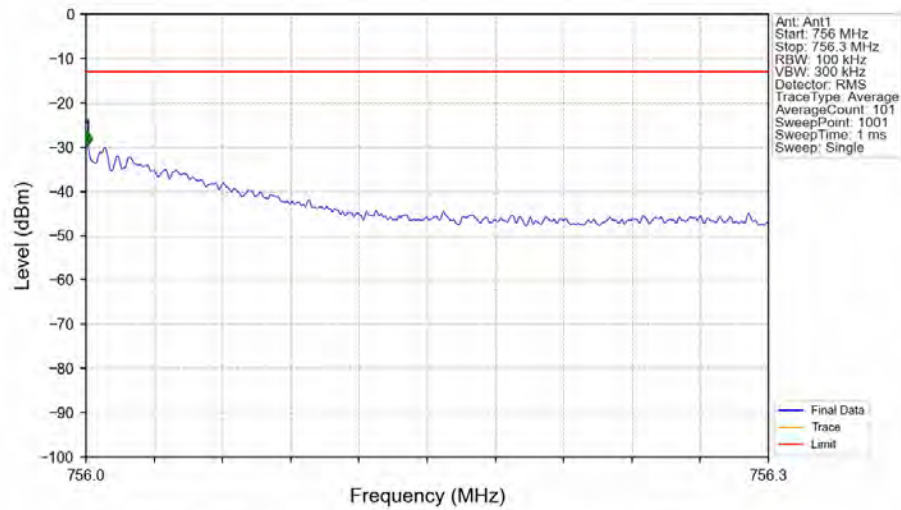
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.7	746	0.1	/	1	746.000	-31.55	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV_AGC



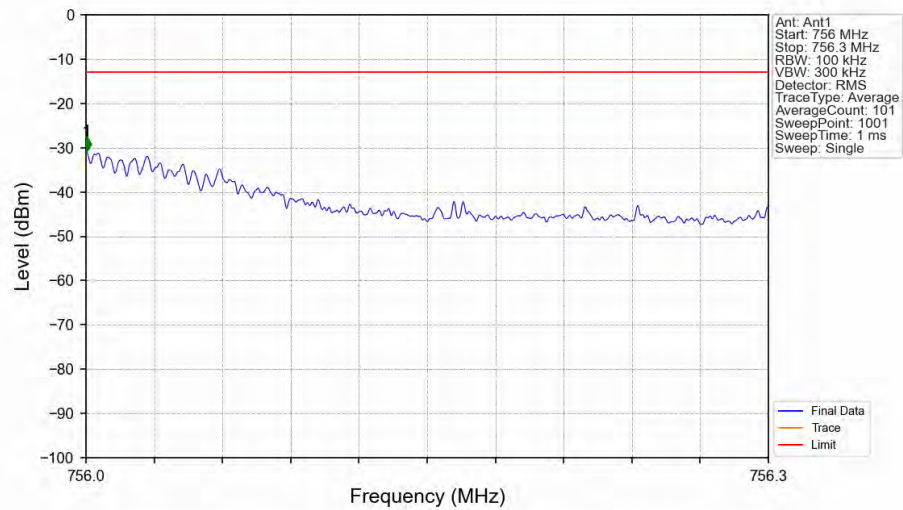
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756	756.3	0.1	/	1	756.006	-29.82	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



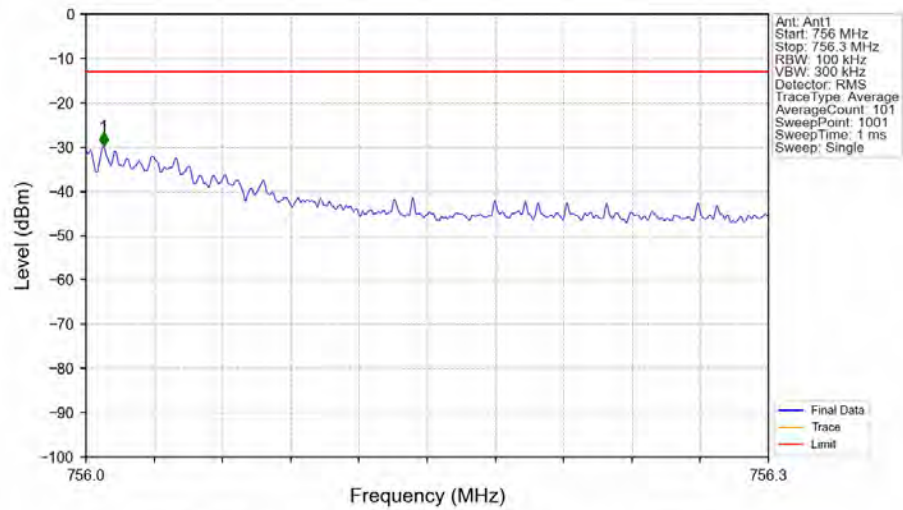
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756	756.3	0.1	/	1	756.001	-29.64	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV_AGC



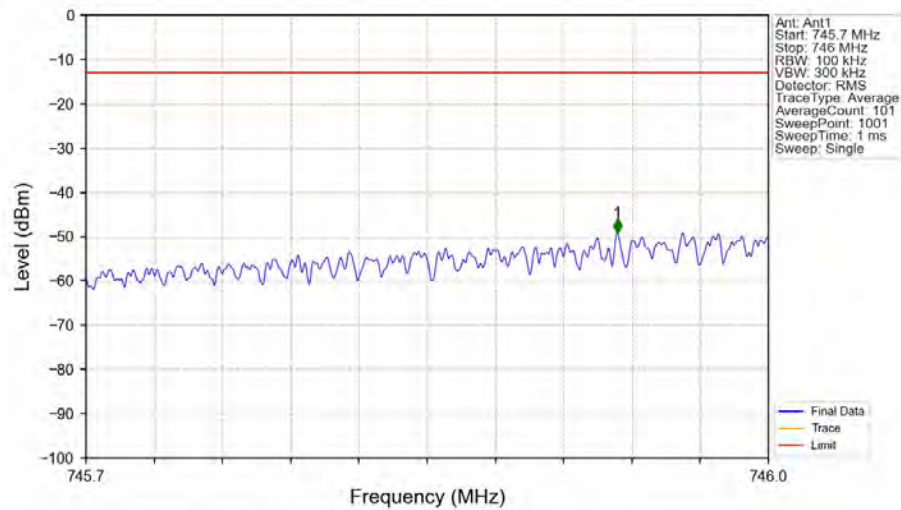
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756	756.3	0.1	/	1	756.000	-30.70	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



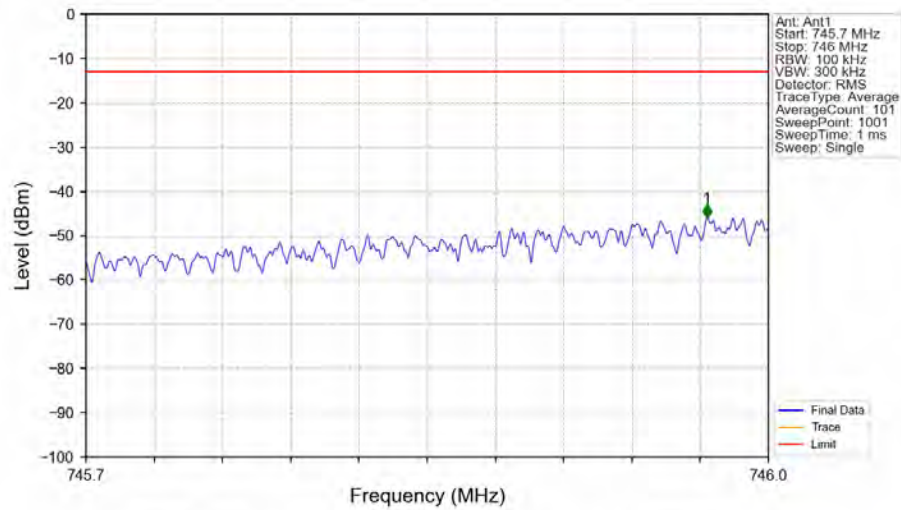
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756	756.3	0.1	/	1	756.008	-29.89	-13	Pass

Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



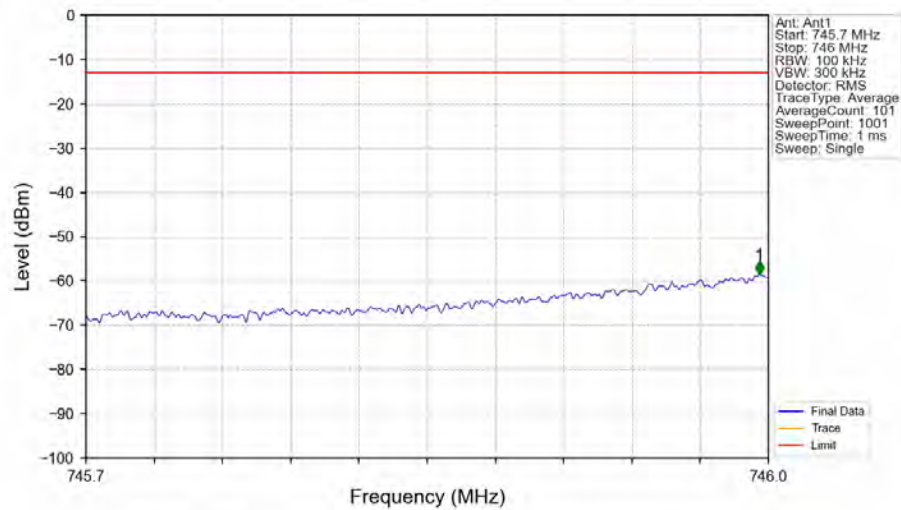
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.7	746	0.1	/	1	745.934	-49.12	-13	Pass

Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

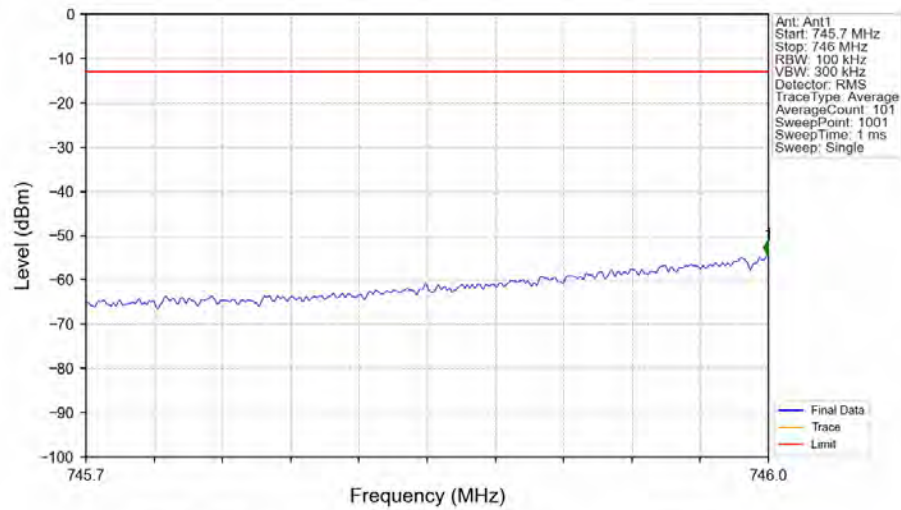


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
745.7	746	0.1	/	1	745.973	-45.96	-13	Pass

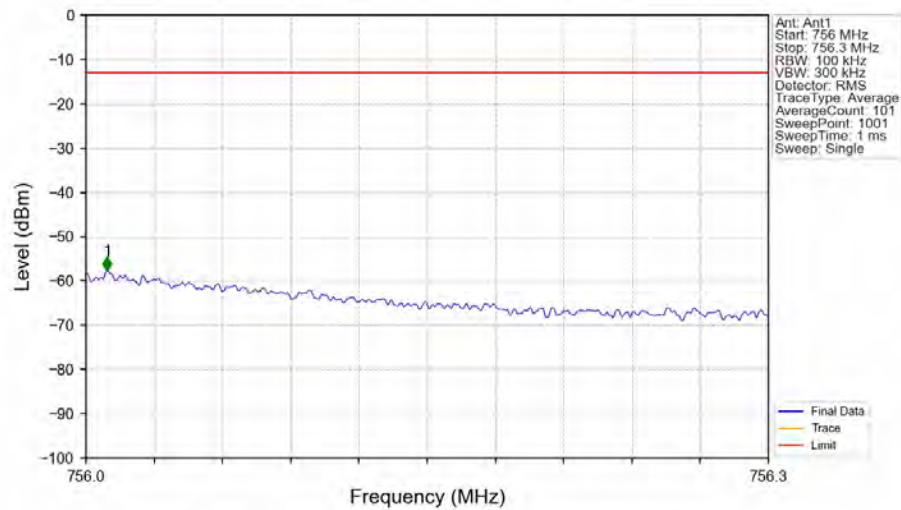
Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

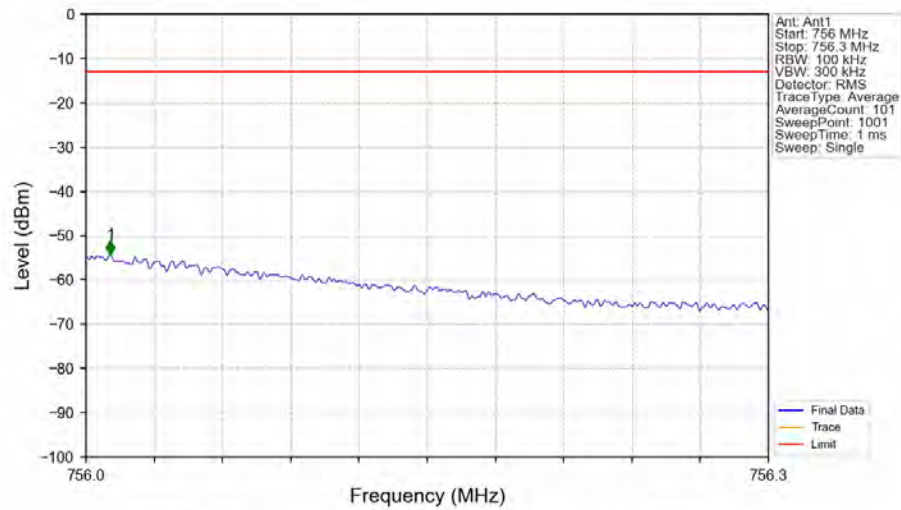


Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



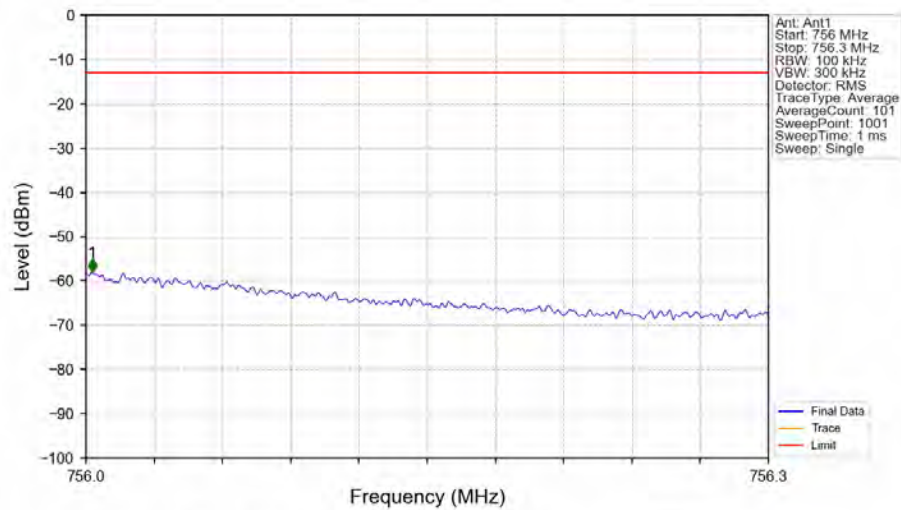
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756	756.3	0.1	/	1	756.009	-57.62	-13	Pass

Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



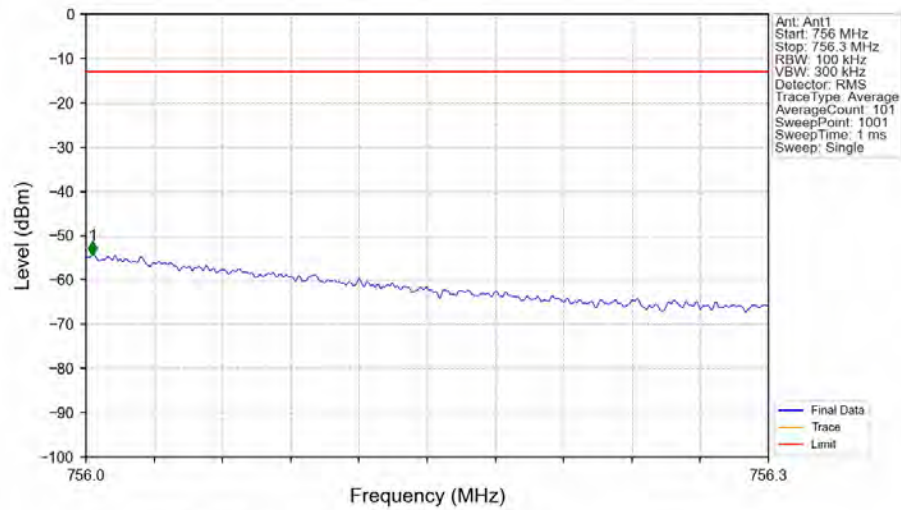
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756	756.3	0.1	/	1	756.011	-54.28	-13	Pass

Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756	756.3	0.1	/	1	756.003	-58.07	-13	Pass

Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
756	756.3	0.1	/	1	756.003	-54.35	-13	Pass

6. Spurious emissions

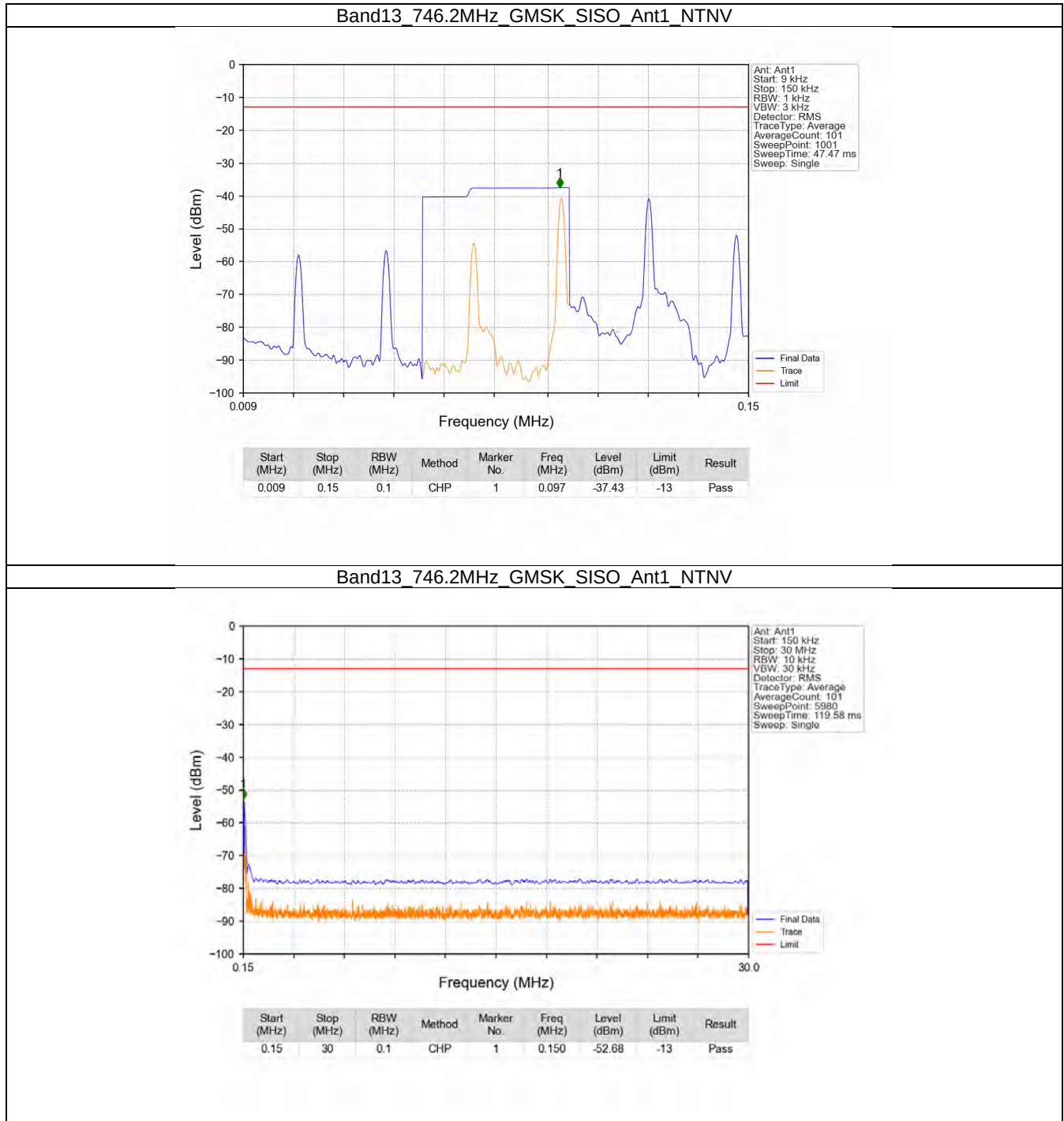
6.1 Test Result

6.1.1 Band13

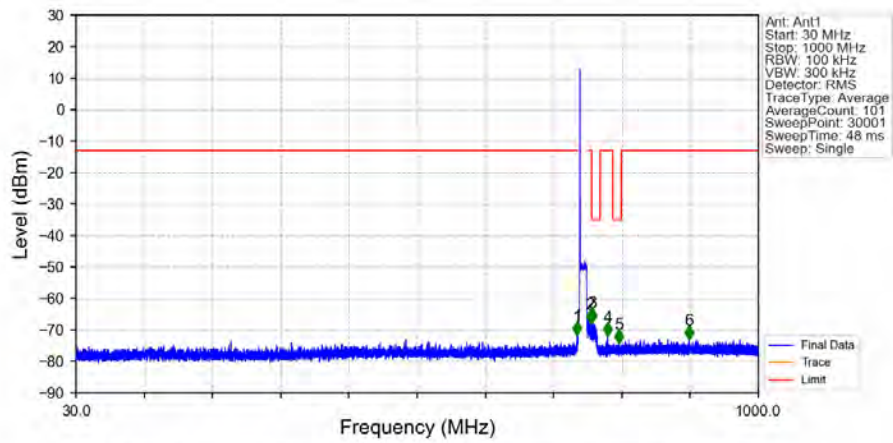
Band: 13 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
GMSK 0.2MHz	-1.2	746.2	LCH	SISO	1	Refer To Test Graph		Pass
		751	MCH	SISO	1	Refer To Test Graph		Pass
		755.8	HCH	SISO	1	Refer To Test Graph		Pass
AWGN 5MHz	-1.2	748.5	LCH	SISO	1	Refer To Test Graph		Pass
		751	MCH	SISO	1	Refer To Test Graph		Pass
		753.5	HCH	SISO	1	Refer To Test Graph		Pass
AWGN 100MHz	-1.2	796	LCH	SISO	1	Refer To Test Graph		Pass
		751	MCH	SISO	1	Refer To Test Graph		Pass
		706	HCH	SISO	1	Refer To Test Graph		Pass

6.2 Test Graph

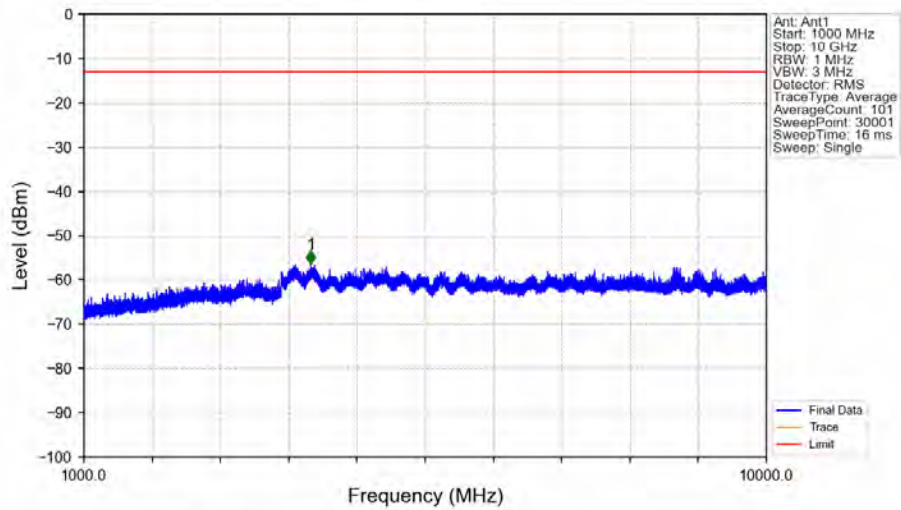
6.2.1 Band13



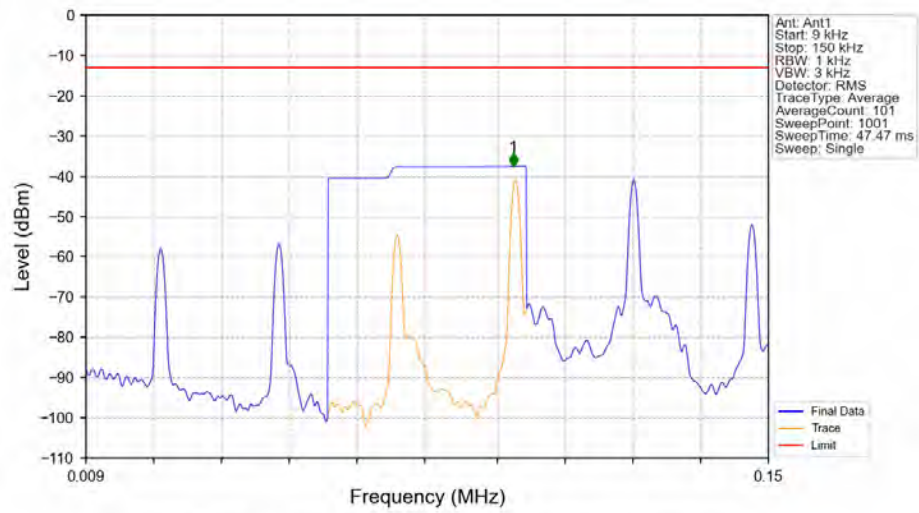
Band13_746.2MHz_GMSK_SISO_Ant1_NTNV



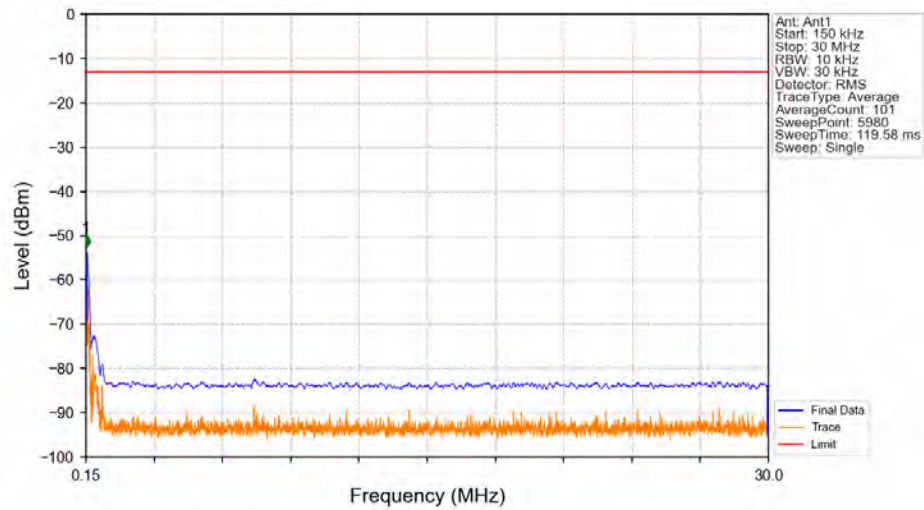
Band13_746.2MHz_GMSK_SISO_Ant1_NTNV



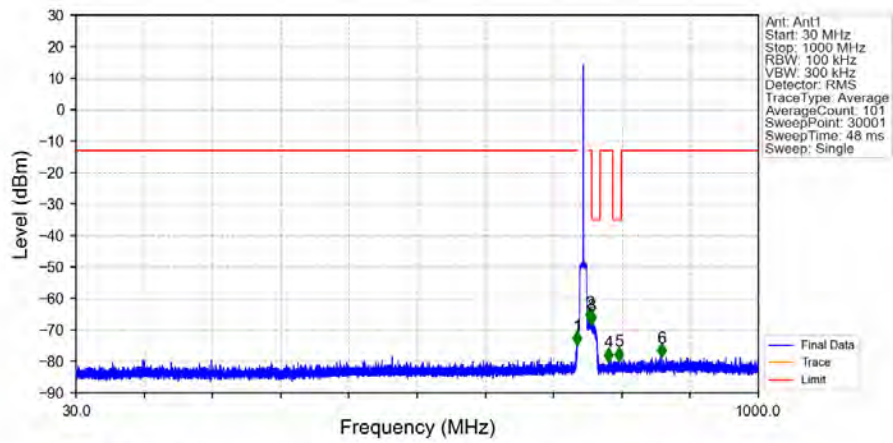
Band13_751MHz_GMSK_SISO_Ant1_NTNV



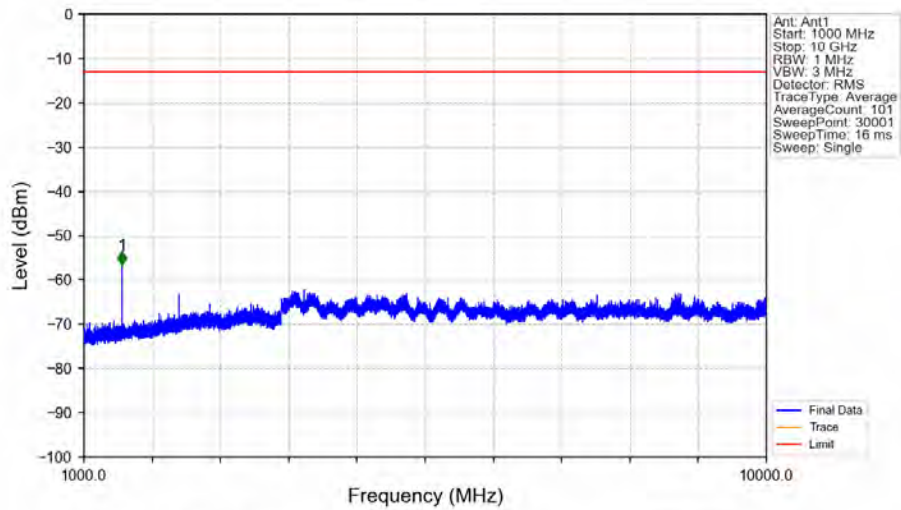
Band13_751MHz_GMSK_SISO_Ant1_NTNV



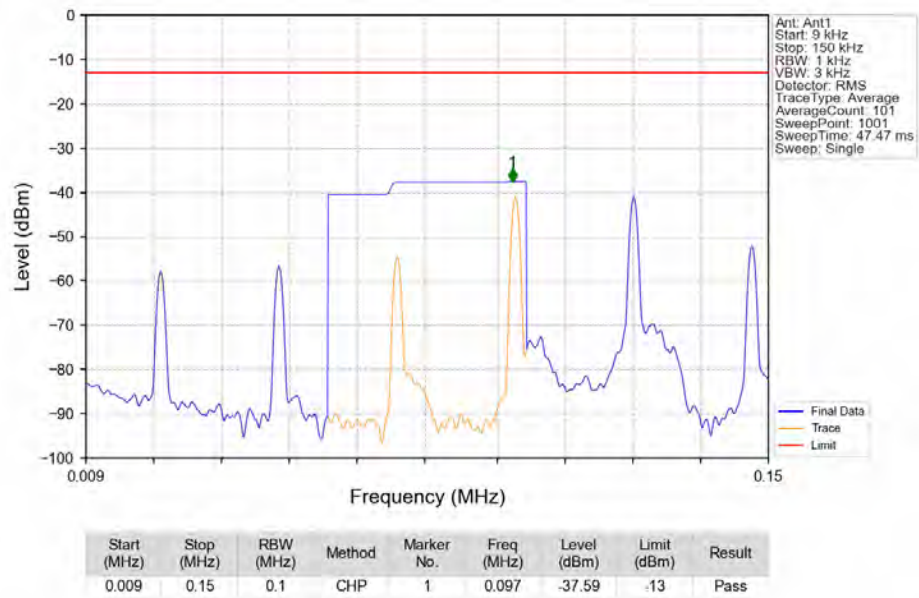
Band13_751MHz_GMSK_SISO_Ant1_NTNV



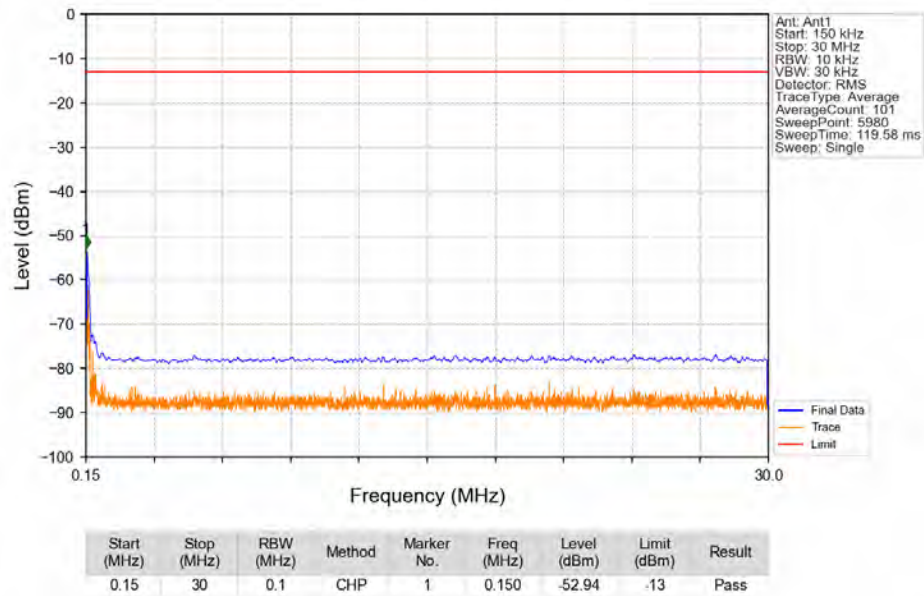
Band13_751MHz_GMSK_SISO_Ant1_NTNV



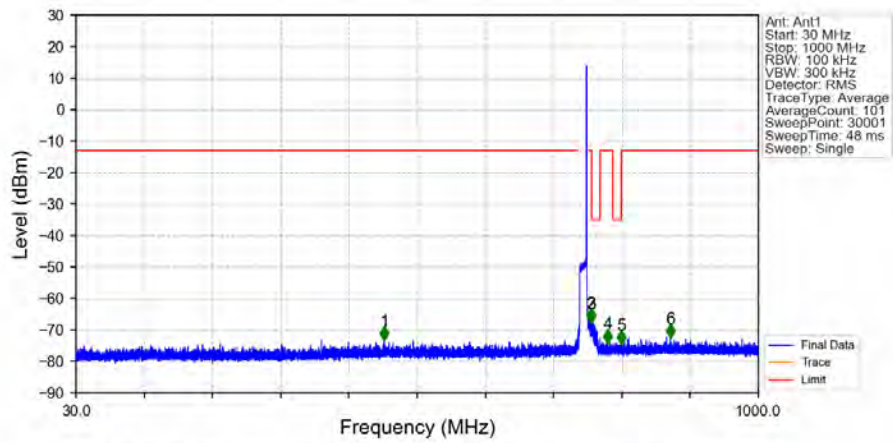
Band13_755.8MHz_GMSK_SISO_Ant1_NTNV



Band13_755.8MHz_GMSK_SISO_Ant1_NTNV

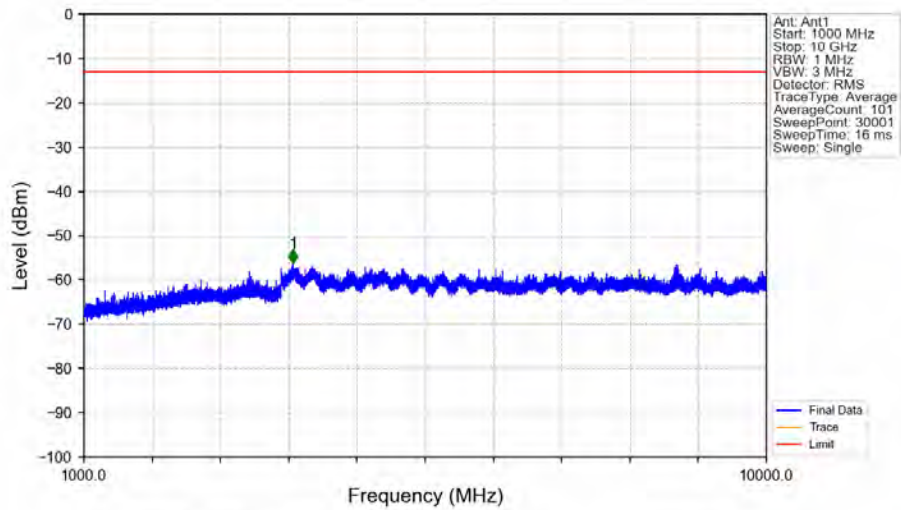


Band13_755.8MHz_GMSK_SISO_Ant1_NTNV



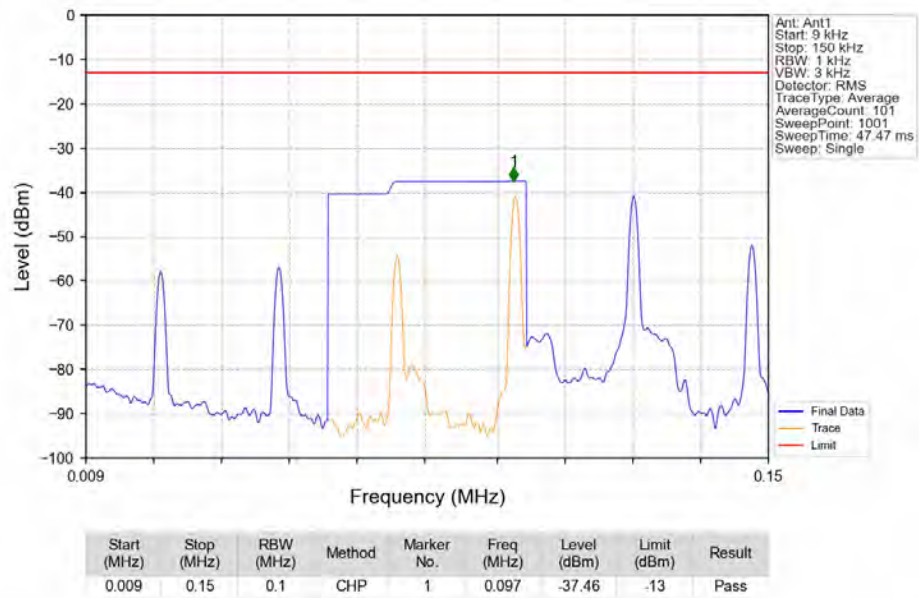
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	0.1	/	1	468.149	-73.02	-13	Pass
1000	759.3	0.1	/	/	/	/	/	/
759.3	1000	0.1	/	2	761.380	-67.36	-13	Pass
1000	775	0.1	/	3	763.094	-67.41	-35	Pass
775	1000	0.1	/	4	785.889	-73.85	-13	Pass
1000	805	0.1	/	5	804.868	-74.28	-35	Pass
805	1000	0.1	/	6	874.773	-72.12	-13	Pass

Band13_755.8MHz_GMSK_SISO_Ant1_NTNV

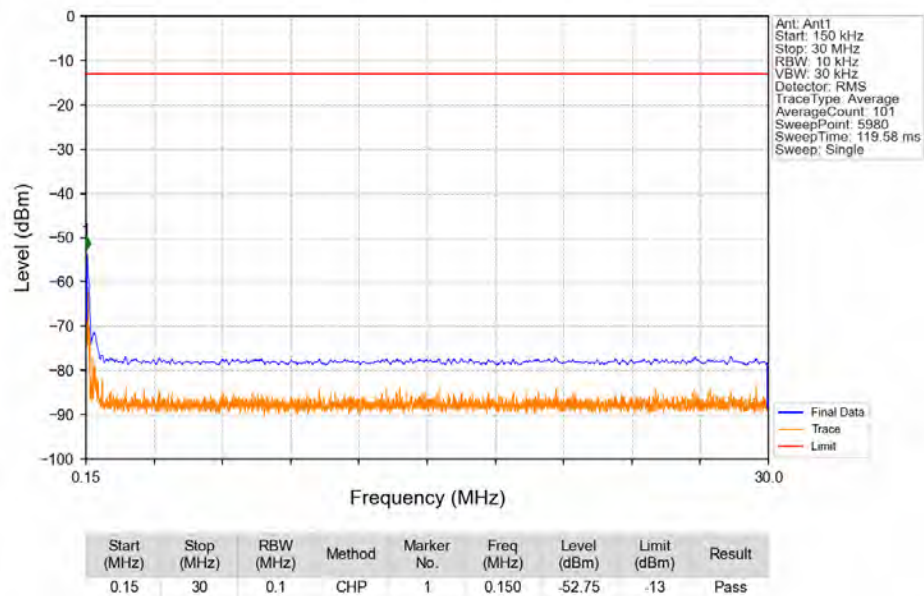


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	3758.800	-56.31	-13	Pass

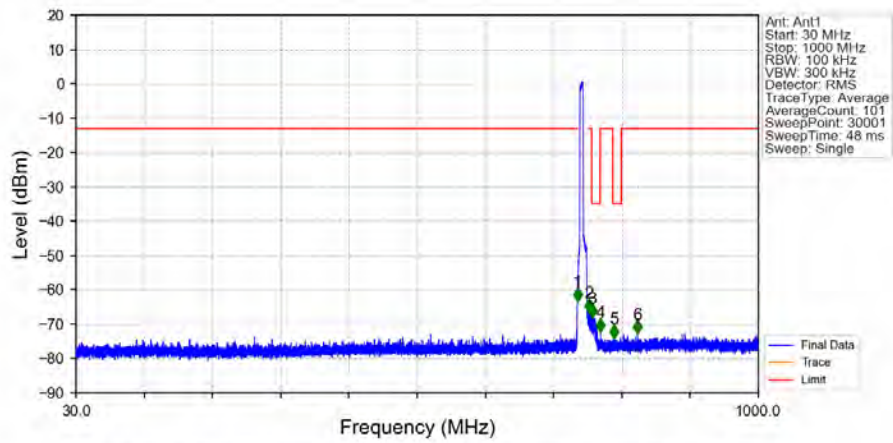
Band13_748.5MHz_AWGN_SISO_Ant1_NTNV



Band13_748.5MHz_AWGN_SISO_Ant1_NTNV

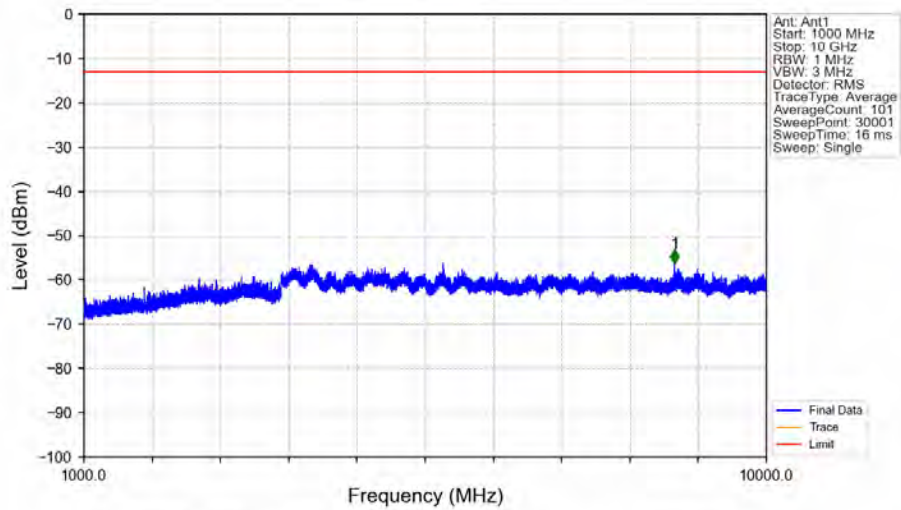


Band13_748.5MHz_AWGN_SISO_Ant1_NTNV



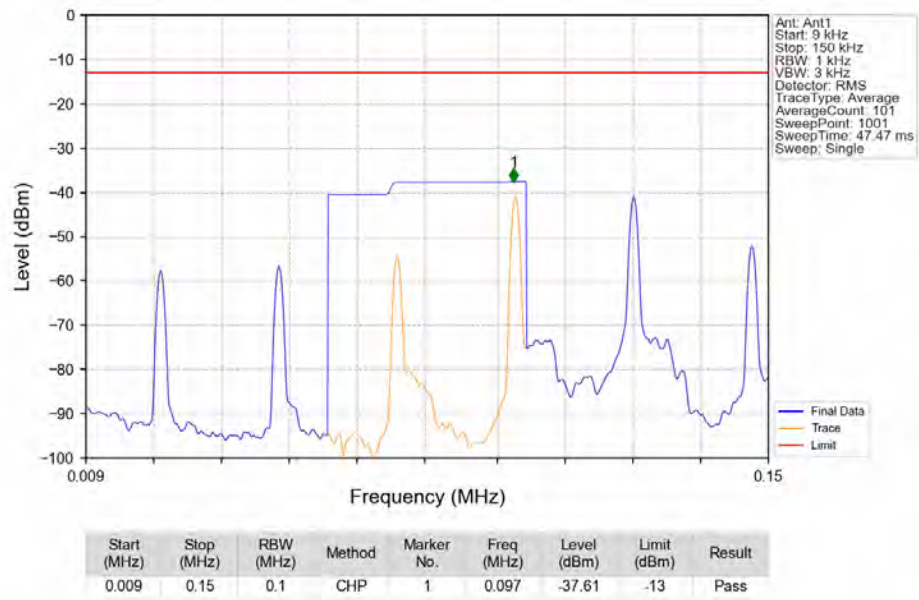
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	0.1	/	1	742.691	-62.96	-13	Pass
1000	759.3	0.1	/	/	/	/	/	/
759.3	1000	0.1	/	2	759.343	-66.26	-13	Pass
1000	775	0.1	/	3	763.934	-67.75	-35	Pass
775	1000	0.1	/	4	775.801	-71.92	-13	Pass
1000	805	0.1	/	5	794.360	-73.81	-35	Pass
805	1000	0.1	/	6	828.245	-72.45	-13	Pass

Band13_748.5MHz_AWGN_SISO_Ant1_NTNV

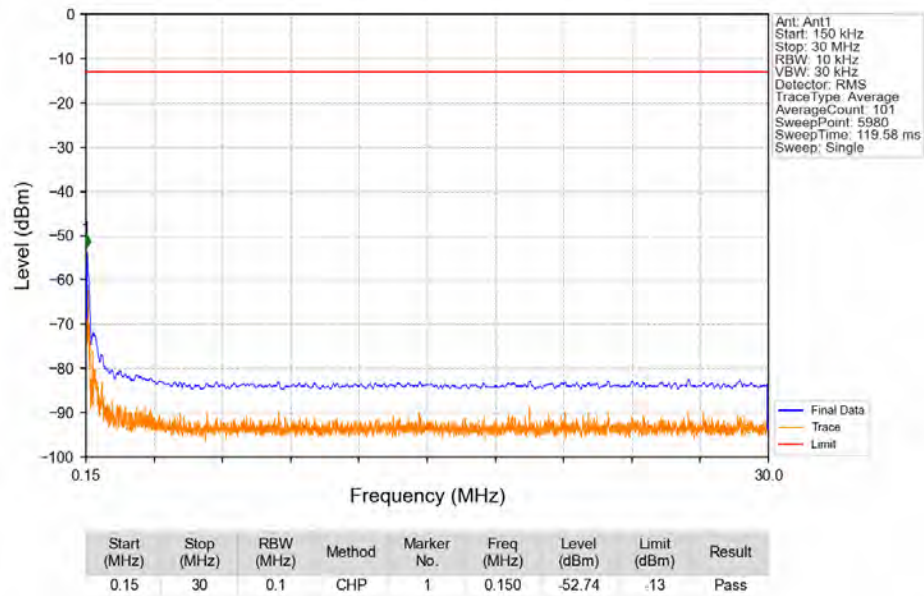


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	8788.900	-56.19	-13	Pass

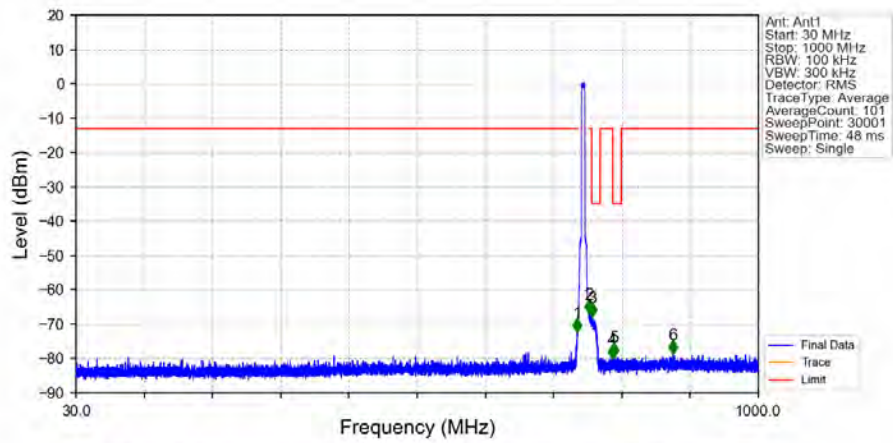
Band13_751MHz_AWGN_SISO_Ant1_NTNV



Band13_751MHz_AWGN_SISO_Ant1_NTNV

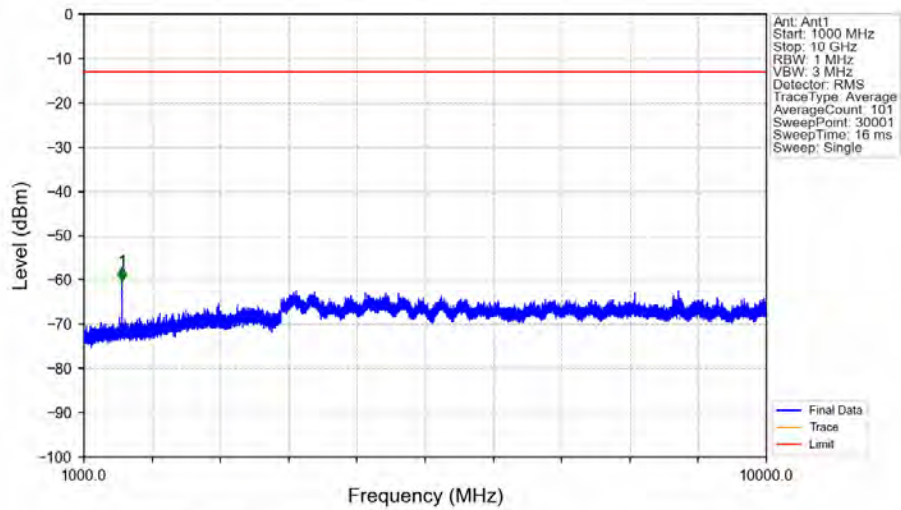


Band13_751MHz_AWGN_SISO_Ant1_NTNV



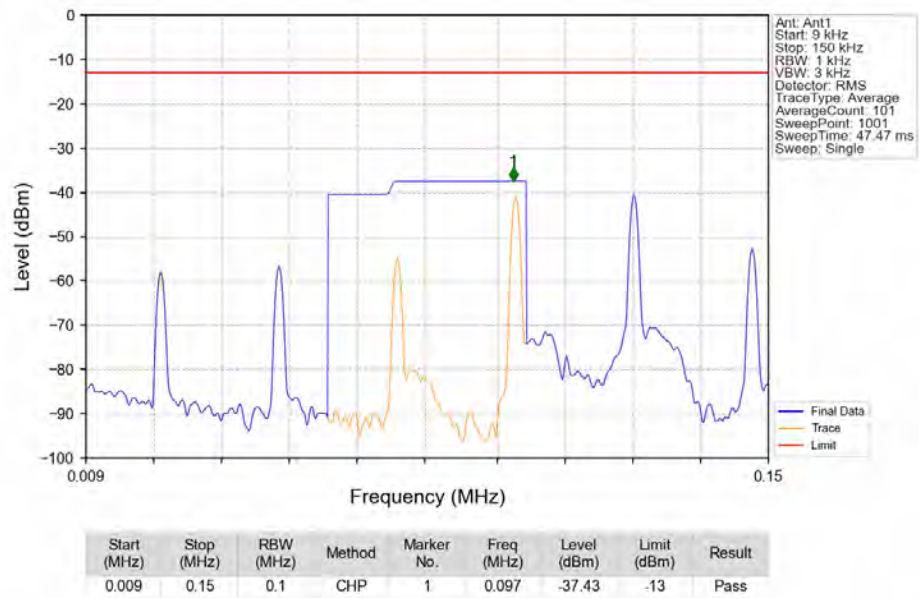
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	0.1	/	1	742.336	-71.96	-13	Pass
1000	759.3	0.1	/	/	/	/	/	/
759.3	1000	0.1	/	2	759.472	-66.64	-13	Pass
1000	775	0.1	/	3	763.773	-67.58	-35	Pass
775	1000	0.1	/	4	792.226	-79.83	-13	Pass
1000	805	0.1	/	5	794.231	-79.20	-35	Pass
805	1000	0.1	/	6	878.718	-78.39	-13	Pass

Band13_751MHz_AWGN_SISO_Ant1_NTNV

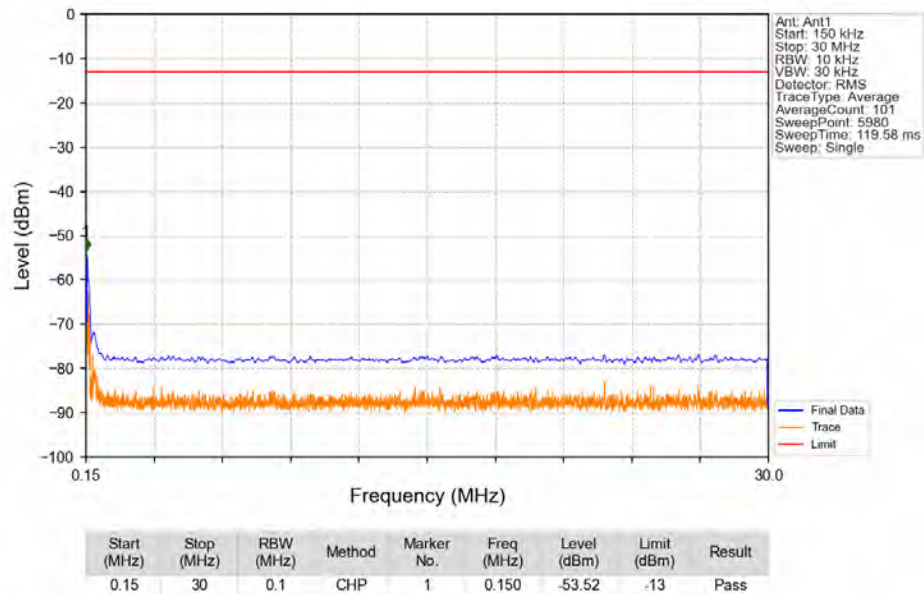


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	1501.900	-60.21	-13	Pass

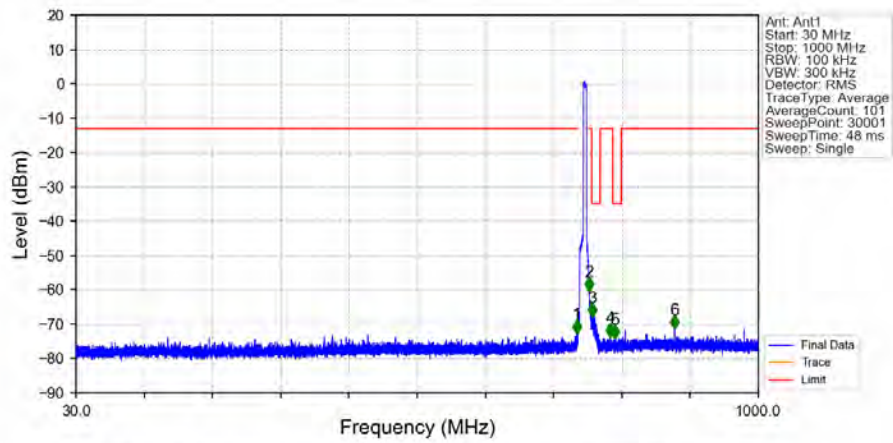
Band13_753.5MHz_AWGN_SISO_Ant1_NTNV



Band13_753.5MHz_AWGN_SISO_Ant1_NTNV

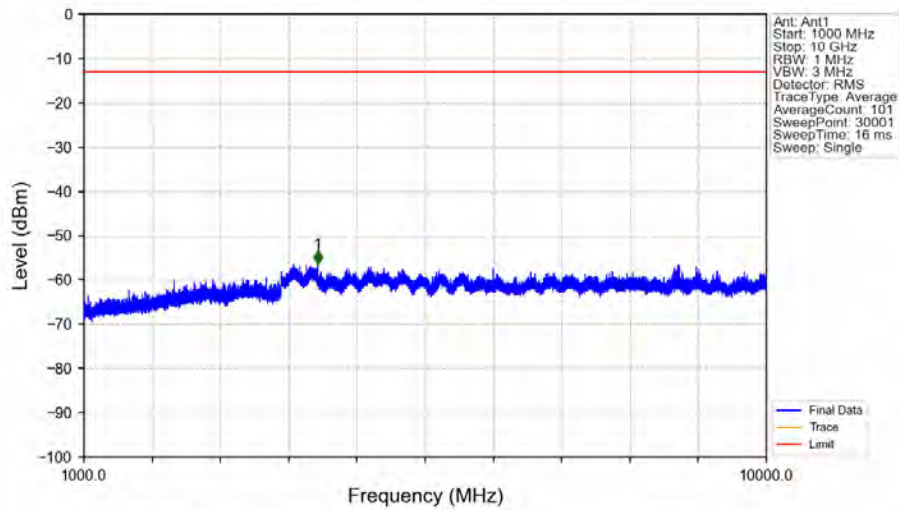


Band13_753.5MHz_AWGN_SISO_Ant1_NTNV



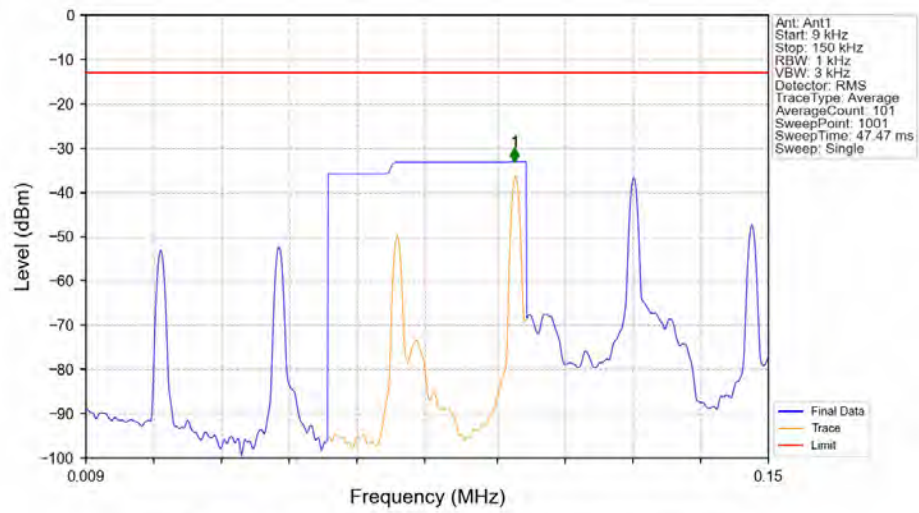
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	0.1	/	1	742.045	-72.37	-13	Pass
1000	759.3	0.1	/	/	/	/	/	/
759.3	1000	0.1	/	2	759.311	-60.03	-13	Pass
1000	775	0.1	/	3	763.902	-67.50	-35	Pass
775	1000	0.1	/	4	789.316	-73.43	-13	Pass
1000	805	0.1	/	5	795.815	-73.93	-35	Pass
805	1000	0.1	/	6	881.013	-71.09	-13	Pass

Band13_753.5MHz_AWGN_SISO_Ant1_NTNV

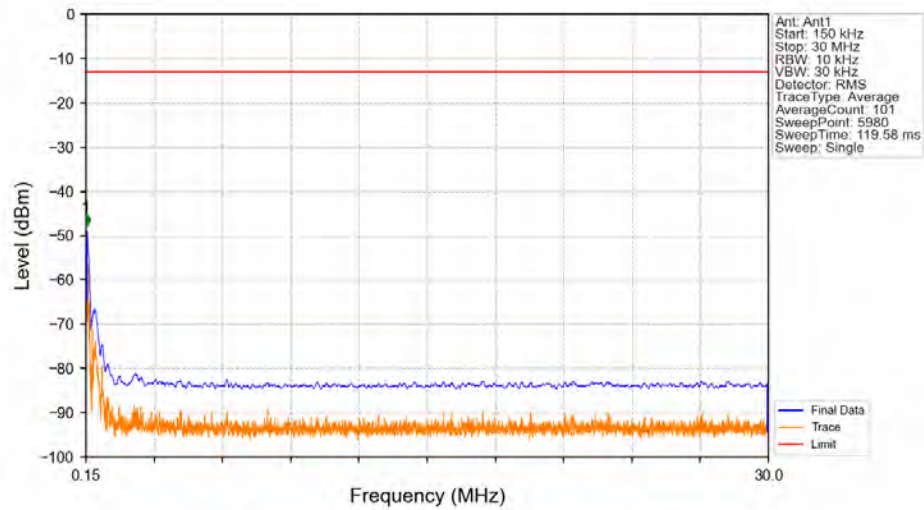


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	4082.800	-56.41	-13	Pass

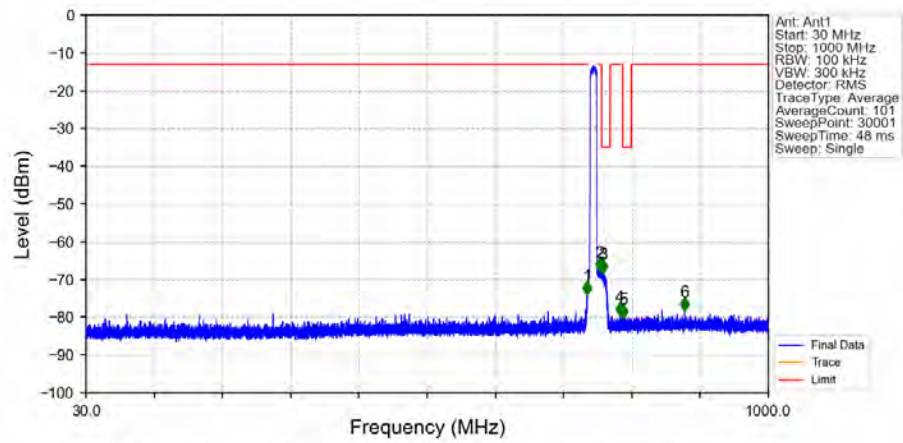
Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV



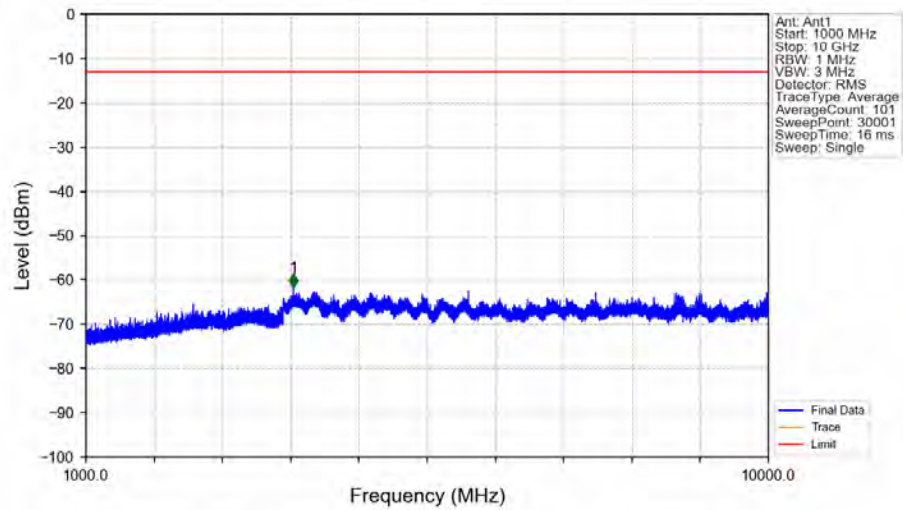
Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV



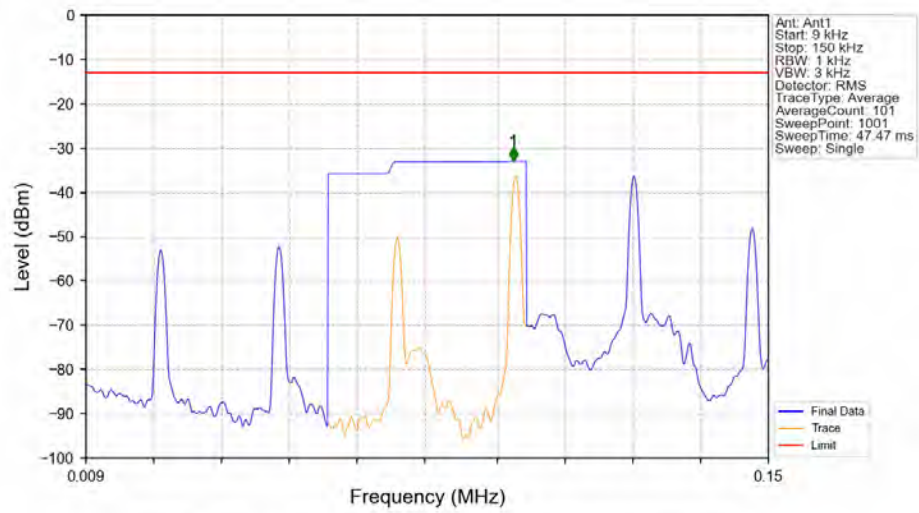
Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV



Band13_796MHz_Broad100MHz_SISO_Ant1_NTNV

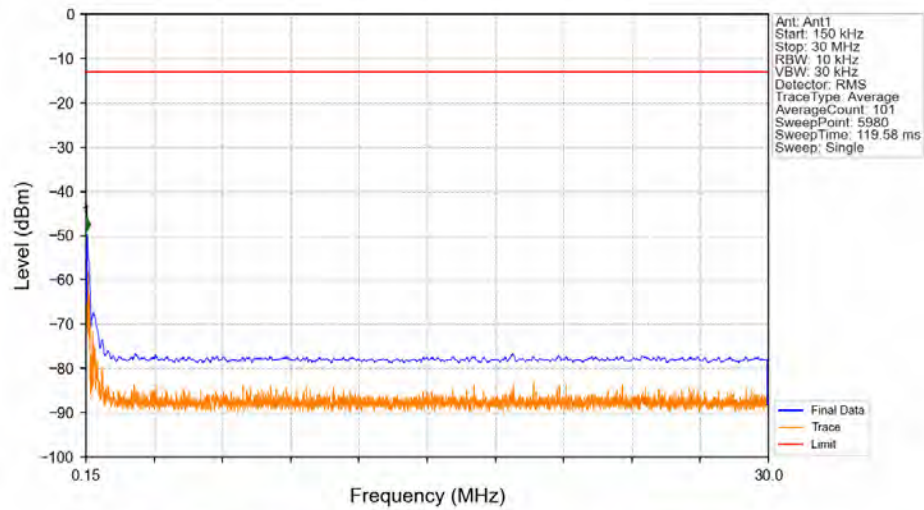


Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV



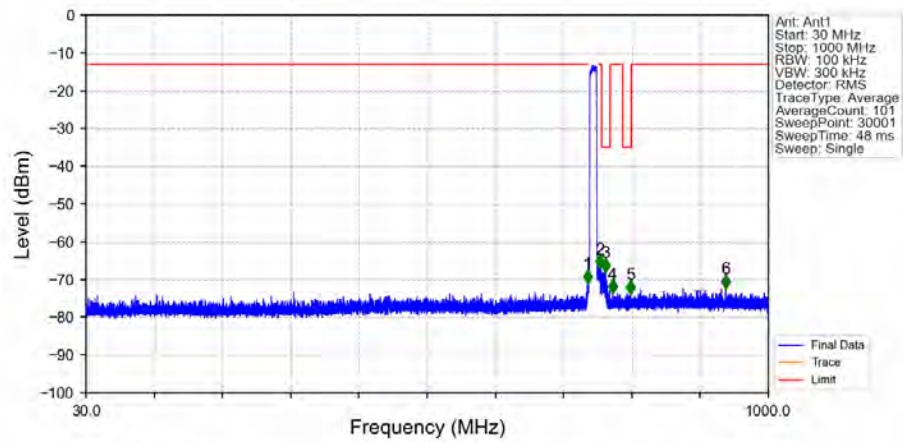
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	CHP	1	0.097	-32.92	-13	Pass

Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV



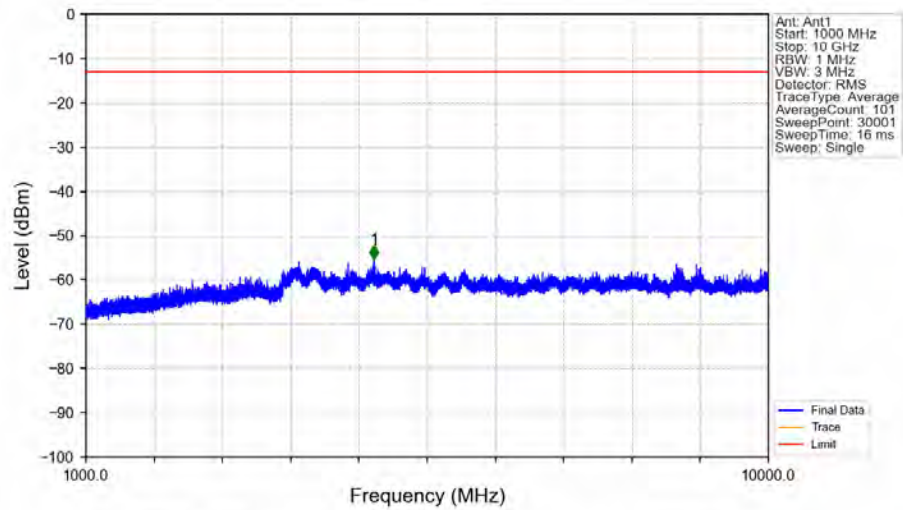
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	CHP	1	0.150	-48.88	-13	Pass

Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV



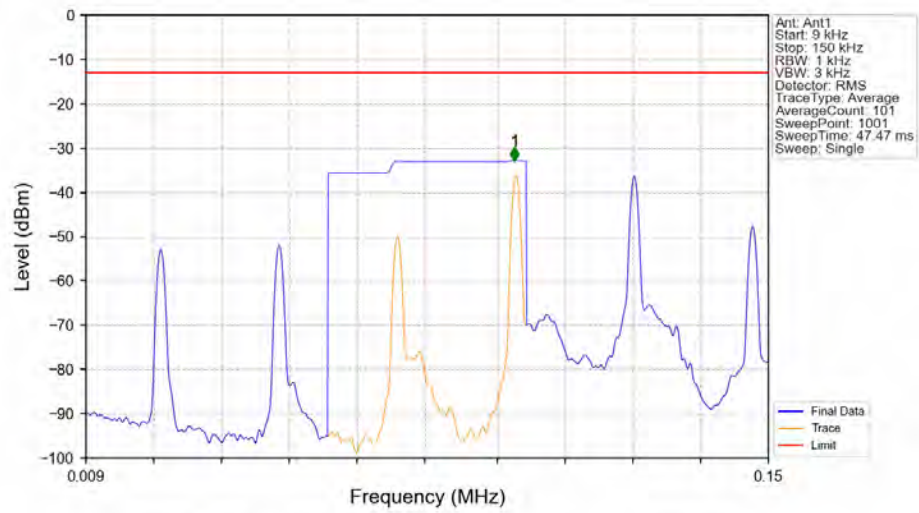
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	0.1	/	1	742.659	-70.71	-13	Pass
1000	759.3	0.1	/	/	/	/	/	/
759.3	1000	0.1	/	2	760.151	-66.85	-13	Pass
1000	775	0.1	/	3	768.558	-67.74	-35	Pass
775	1000	0.1	/	4	778.226	-73.40	-13	Pass
1000	805	0.1	/	5	804.222	-73.55	-35	Pass
805	1000	0.1	/	6	939.278	-71.99	-13	Pass

Band13_751MHz_Broad100MHz_SISO_Ant1_NTNV

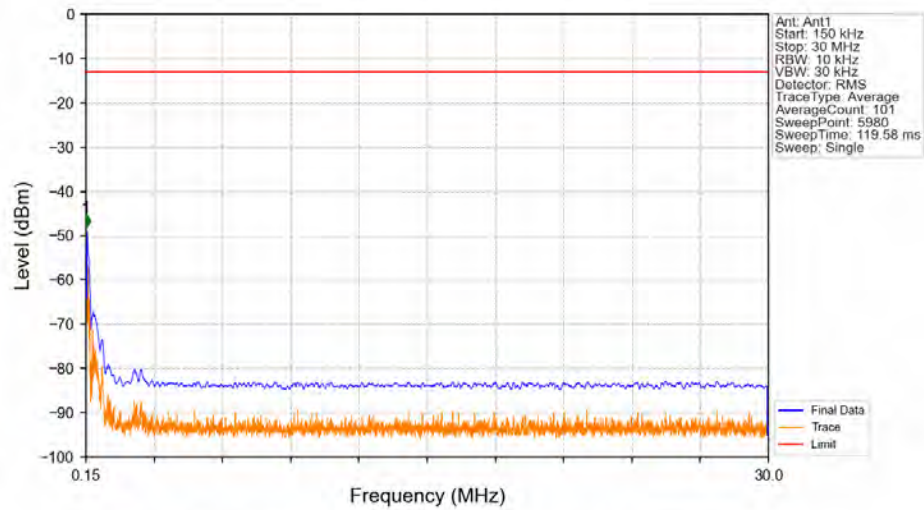


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	4798.900	-55.30	-13	Pass

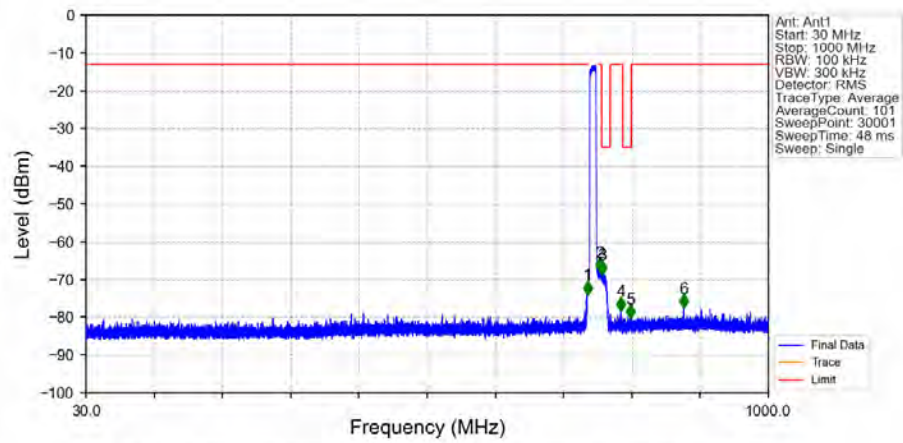
Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV



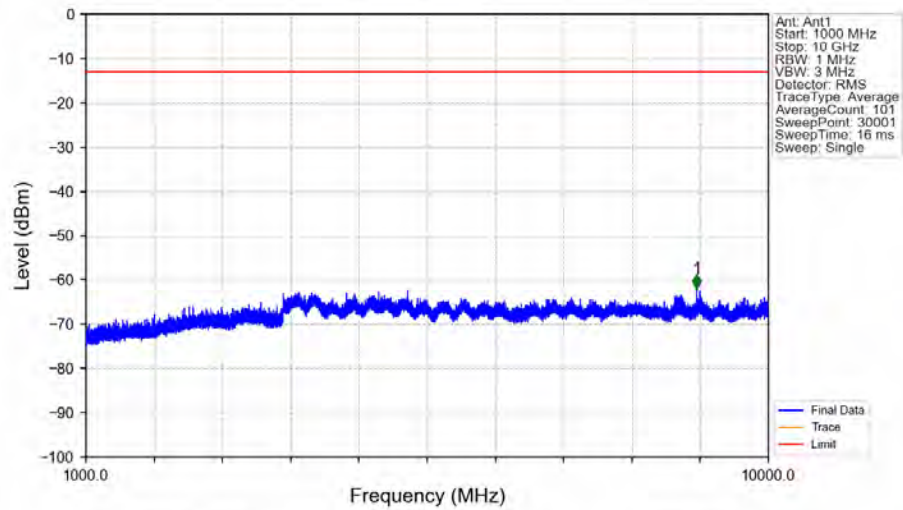
Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV



Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV



Band13_706MHz_Broad100MHz_SISO_Ant1_NTNV



7. Frequency stability measurements

7.1 Test Result

7.1.1 Band13_Ant1

Band: 13 / NTNV							
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict
Type	Level (dBm)	Frequency (MHz)					
CW	-1.2	746	20	102	746.00	0.00	Pass
				120	746.00	0.00	Pass
				138	746.00	0.00	Pass
			-20	120	746.00	0.00	Pass
			-10	120	746.00	0.00	Pass
			0	120	746.00	0.00	Pass
			10	120	746.00	0.00	Pass
			30	120	746.00	0.00	Pass
			40	120	746.00	0.00	Pass
		751	20	102	751.00	0.00	Pass
				120	751.00	0.00	Pass
				138	751.00	0.00	Pass
			-20	120	751.00	0.00	Pass
			-10	120	751.00	0.00	Pass
			0	120	751.00	0.00	Pass
			10	120	751.00	0.00	Pass
			30	120	751.00	0.00	Pass
			40	120	751.00	0.00	Pass
		756	20	102	756.00	0.00	Pass
				120	756.00	0.00	Pass
				138	756.00	0.00	Pass
			-20	120	756.00	0.00	Pass
			-10	120	756.00	0.00	Pass
			0	120	756.00	0.00	Pass
			10	120	756.00	0.00	Pass
			30	120	756.00	0.00	Pass
			40	120	756.00	0.00	Pass
			50	120	756.00	0.00	Pass

8. Radiated Spurious Emissions

8.1 Band13_Ant1

8.1.1 Test Result

GMSK _Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
119.62	Horizontal	-64.05	-13	-51.05	pass
258.15	Horizontal	-63.02	-13	-50.02	pass
705.61	Horizontal	-61.55	-13	-48.55	pass
1266.96	Horizontal	-53.92	-13	-40.92	pass
3793.65	Horizontal	-50.16	-13	-37.16	pass
8771.24	Horizontal	-37.81	-13	-24.81	pass
115.68	Vertical	-65.36	-13	-52.36	pass
235.58	Vertical	-60.52	-13	-47.52	pass
647.53	Vertical	-60.32	-13	-47.32	pass
1062.63	Vertical	-60.23	-13	-47.23	pass
4259.01	Vertical	-44.55	-13	-31.55	pass
8976.55	Vertical	-43.94	-13	-30.94	pass
GMSK _Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
126.21	Horizontal	-63.11	-13	-50.11	pass
229.71	Horizontal	-62.17	-13	-49.17	pass
722.08	Horizontal	-60.41	-13	-47.41	pass
1353.90	Horizontal	-60.06	-13	-47.06	pass
3765.87	Horizontal	-45.50	-13	-32.5	pass
8764.70	Horizontal	-32.61	-13	-19.61	pass
91.99	Vertical	-62.91	-13	-49.91	pass
248.16	Vertical	-62.56	-13	-49.56	pass
636.30	Vertical	-60.55	-13	-47.55	pass
1101.47	Vertical	-56.33	-13	-43.33	pass
4246.53	Vertical	-46.08	-13	-33.08	pass
8991.31	Vertical	-41.60	-13	-28.60	pass

GMSK_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
95.06	Horizontal	-64.29	-13	-51.29	pass
261.92	Horizontal	-60.63	-13	-47.63	pass
697.33	Horizontal	-59.97	-13	-46.97	pass
1347.08	Horizontal	-60.46	-13	-47.46	pass
3792.83	Horizontal	-49.76	-13	-36.76	pass
8774.44	Horizontal	-34.71	-13	-21.71	pass
83.43	Vertical	-65.60	-13	-52.60	pass
237.22	Vertical	-62.26	-13	-49.26	pass
635.10	Vertical	-61.38	-13	-48.38	pass
1090.75	Vertical	-57.00	-13	-44.00	pass
4227.53	Vertical	-40.75	-13	-27.75	pass
8965.97	Vertical	-43.80	-13	-30.80	pass
AWGN_5MHz_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
87.98	Horizontal	-65.65	-13	-52.65	pass
273.77	Horizontal	-61.33	-13	-48.33	pass
684.62	Horizontal	-63.28	-13	-50.28	pass
1271.12	Horizontal	-56.79	-13	-43.79	pass
3759.53	Horizontal	-45.36	-13	-32.36	pass
8813.32	Horizontal	-32.08	-13	-19.08	pass
125.10	Vertical	-64.44	-13	-51.44	pass
234.69	Vertical	-59.10	-13	-46.10	pass
668.82	Vertical	-61.65	-13	-48.65	pass
1050.21	Vertical	-60.13	-13	-47.13	pass
4300.75	Vertical	-46.52	-13	-33.52	pass
9026.85	Vertical	-40.24	-13	-27.24	pass

AWGN_5MHz_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
131.07	Horizontal	-64.51	-13	-51.51	pass
268.39	Horizontal	-62.32	-13	-49.32	pass
686.99	Horizontal	-61.08	-13	-48.08	pass
1314.82	Horizontal	-59.22	-13	-46.22	pass
3785.83	Horizontal	-41.26	-13	-28.26	pass
8844.42	Horizontal	-35.31	-13	-22.31	pass
121.79	Vertical	-62.06	-13	-49.06	pass
220.27	Vertical	-59.52	-13	-46.52	pass
662.71	Vertical	-61.08	-13	-48.08	pass
1101.01	Vertical	-58.37	-13	-45.37	pass
4237.09	Vertical	-43.92	-13	-30.92	pass
9033.27	Vertical	-38.40	-13	-25.40	pass
AWGN_5MHz_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
128.65	Horizontal	-65.77	-13	-52.77	pass
254.83	Horizontal	-61.40	-13	-48.40	pass
702.01	Horizontal	-62.48	-13	-49.48	pass
1292.06	Horizontal	-53.56	-13	-40.56	pass
3791.15	Horizontal	-41.56	-13	-28.56	pass
8838.62	Horizontal	-35.48	-13	-22.48	pass
121.55	Vertical	-65.24	-13	-52.24	pass
234.29	Vertical	-59.85	-13	-46.85	pass
646.01	Vertical	-60.57	-13	-47.57	pass
1048.21	Vertical	-54.27	-13	-41.27	pass
4207.49	Vertical	-49.32	-13	-36.32	pass
9022.39	Vertical	-35.84	-13	-22.84	pass

AWGN_100MHz_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
123.17	Horizontal	-63.95	-13	-50.95	pass
263.55	Horizontal	-61.53	-13	-48.53	pass
683.43	Horizontal	-62.07	-13	-49.07	pass
1346.78	Horizontal	-58.79	-13	-45.79	pass
3783.87	Horizontal	-41.06	-13	-28.06	pass
8799.38	Horizontal	-34.08	-13	-21.08	pass
100.07	Vertical	-63.44	-13	-50.44	pass
220.03	Vertical	-61.88	-13	-48.88	pass
664.77	Vertical	-61.10	-13	-48.10	pass
1118.37	Vertical	-54.33	-13	-41.33	pass
4258.93	Vertical	-45.65	-13	-32.65	pass
8971.99	Vertical	-40.60	-13	-27.60	pass