

1. Out of band rejection

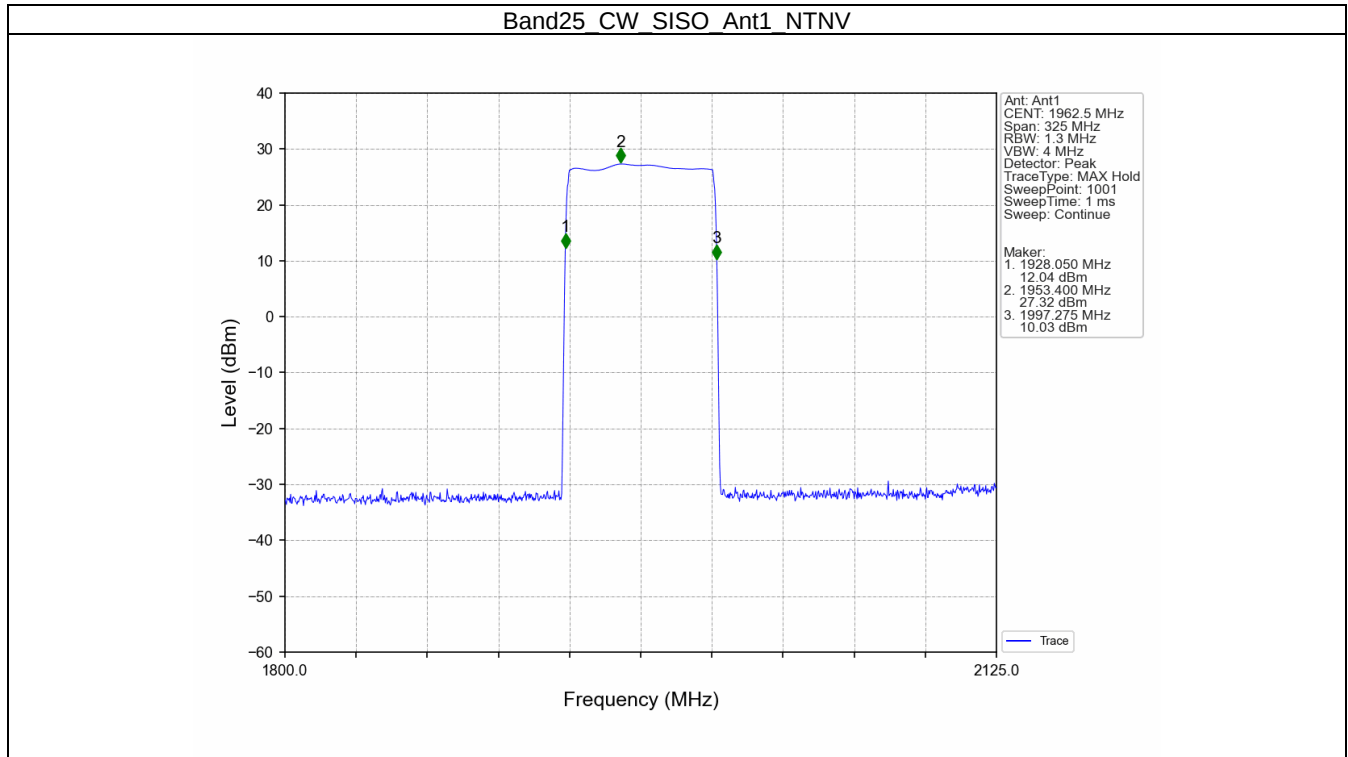
1.1 Test Result

1.1.1 Band25

Band: 25 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	1800 - 2125	SISO	1	1953.400	1928.050	1997.275	Pass

1.2 Test Graph

1.2.1 Band25



2. AGC threshold

2.1 Test Result

2.1.1 Band25

Band: 25 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
GMSK 0.2MHz	1953.4	SISO	1	-0.30	Pass
AWGN 5MHz	1953.4	SISO	1	-0.30	Pass
AWGN 100MHz	1953.4	SISO	1	-0.30	Pass

3. Input-versus-output signal comparison

3.1 Test Result

3.1.1 Band25_OBW

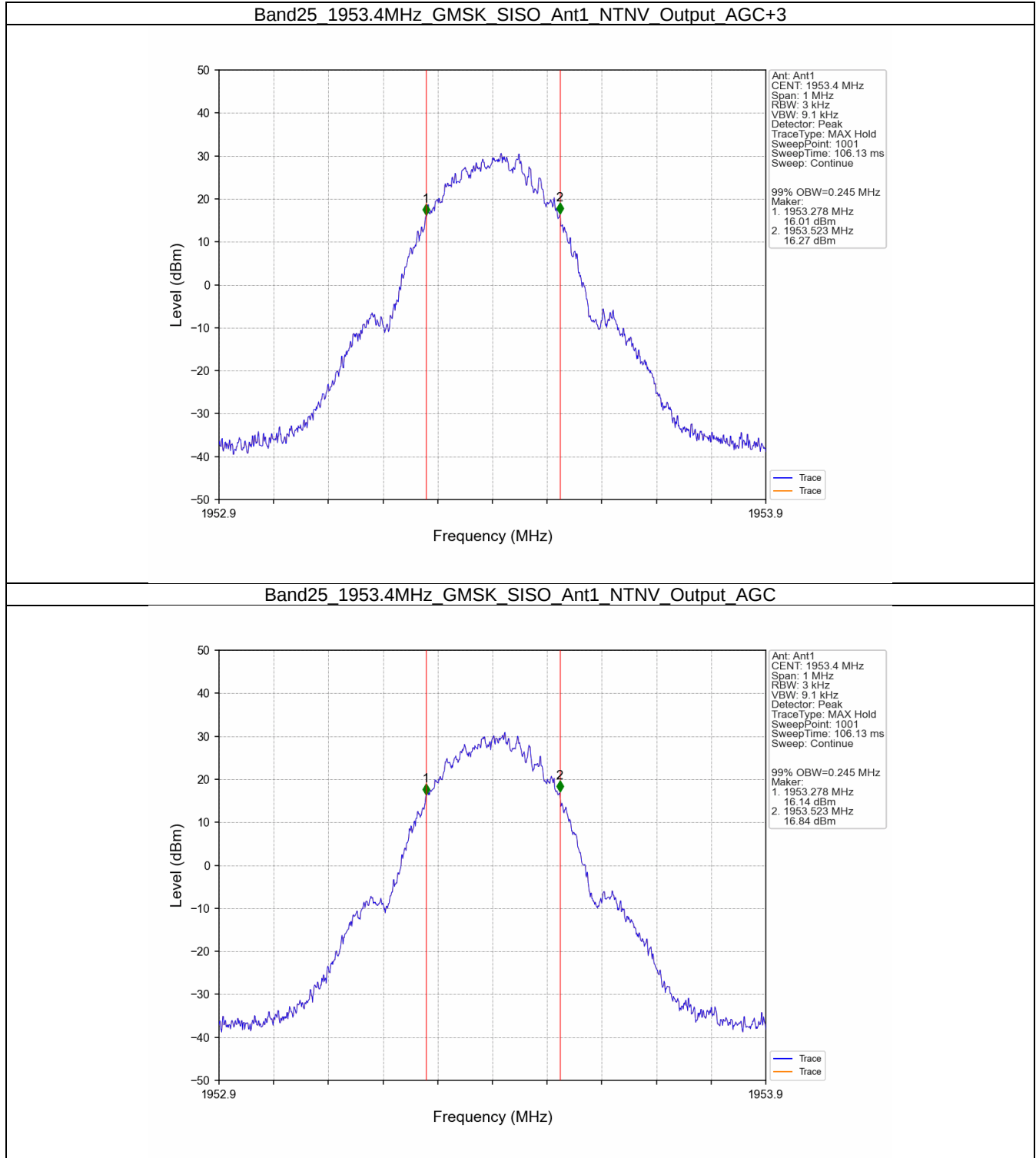
Band: 25 / NTNV							
Signal			TX Type	ANT	99% OBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK	2.7	1953.4	SISO	1	0.245	0.244	Pass
0.2MHz	-0.3	1953.4	SISO	1	0.245	0.245	Pass
AWGN	2.7	1953.4	SISO	1	4.530	4.540	Pass
5MHz	-0.3	1953.4	SISO	1	4.537	4.543	Pass
AWGN	2.7	1953.4	SISO	1	65.903	97.467	Pass
100MHz	-0.3	1953.4	SISO	1	65.860	97.379	Pass

3.1.2 Band25_EBW

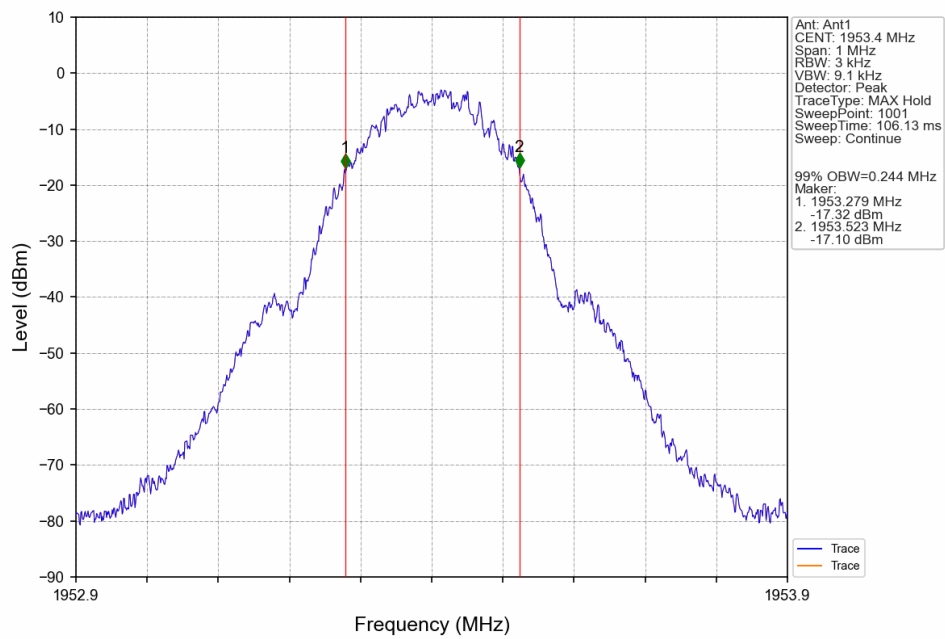
Band: 25 / NTNV							
Signal			TX Type	ANT	26dB EBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK	2.7	1953.4	SISO	1	0.312	0.312	Pass
0.2MHz	-0.3	1953.4	SISO	1	0.312	0.314	Pass
AWGN	2.7	1953.4	SISO	1	5.137	5.138	Pass
5MHz	-0.3	1953.4	SISO	1	5.134	5.131	Pass
AWGN	2.7	1953.4	SISO	1	69.085	100.719	Pass
100MHz	-0.3	1953.4	SISO	1	69.093	100.829	Pass

3.2 Test Graph

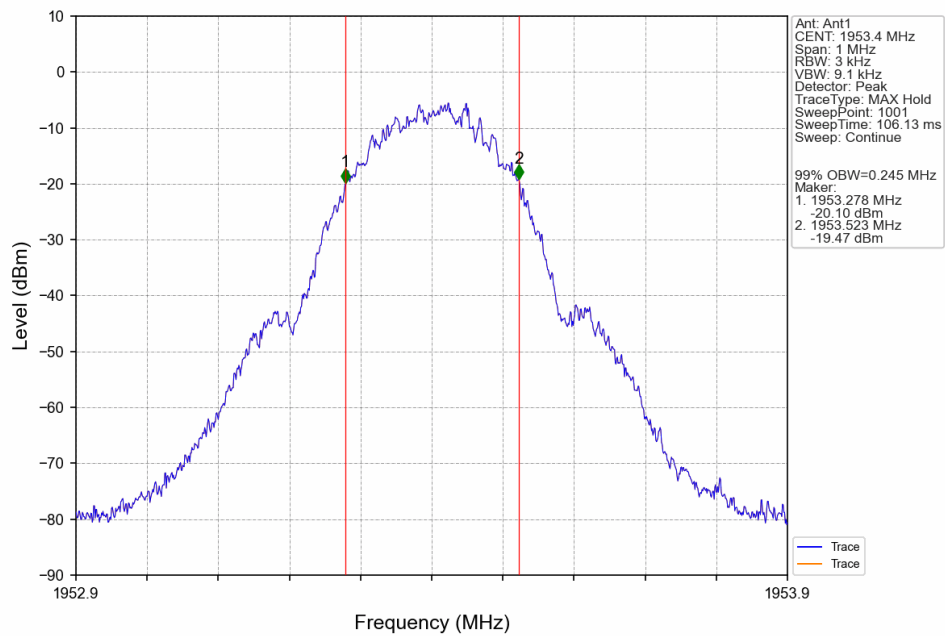
3.2.1 Band25_OBW



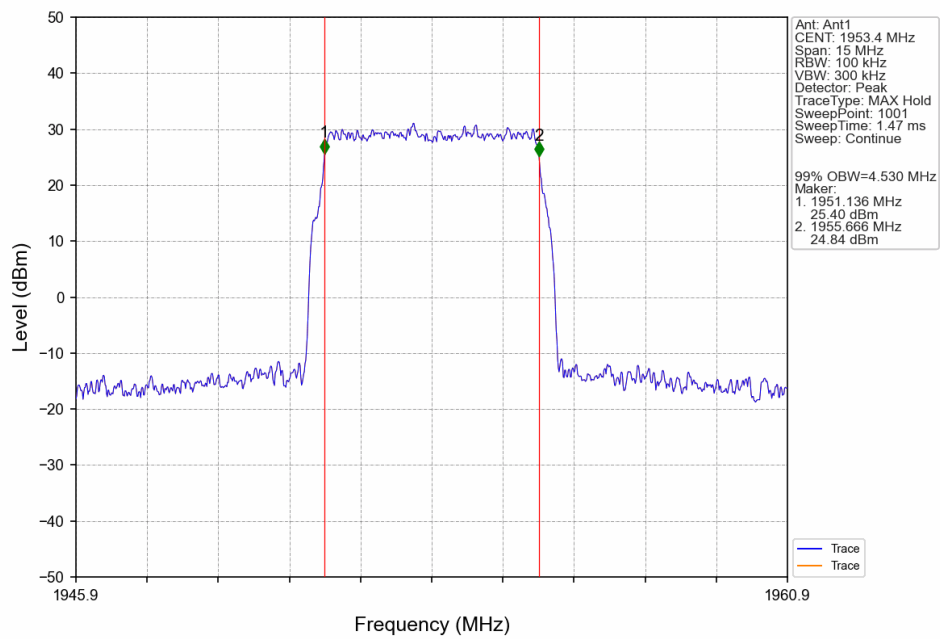
Band25_1953.4MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



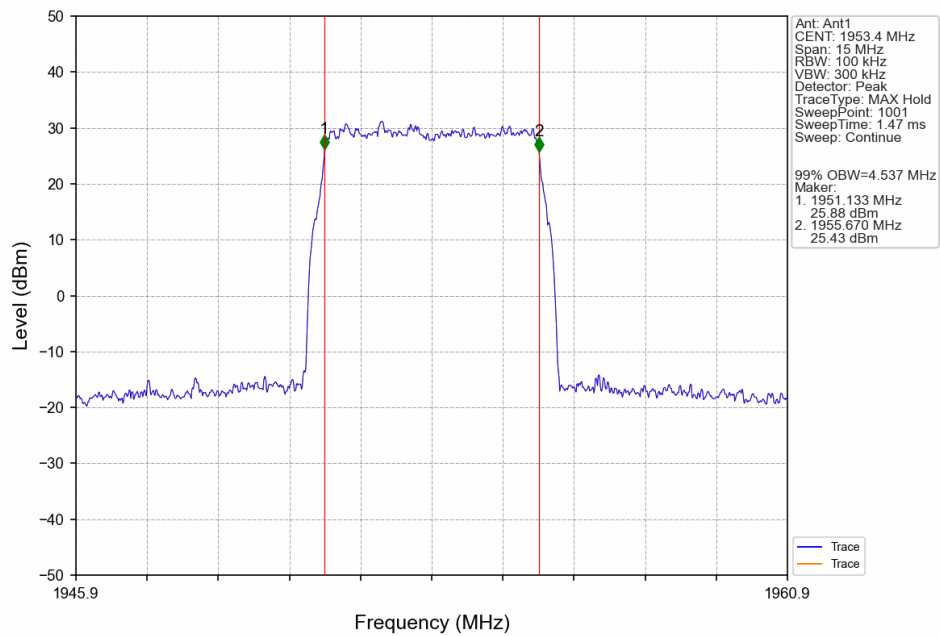
Band25_1953.4MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



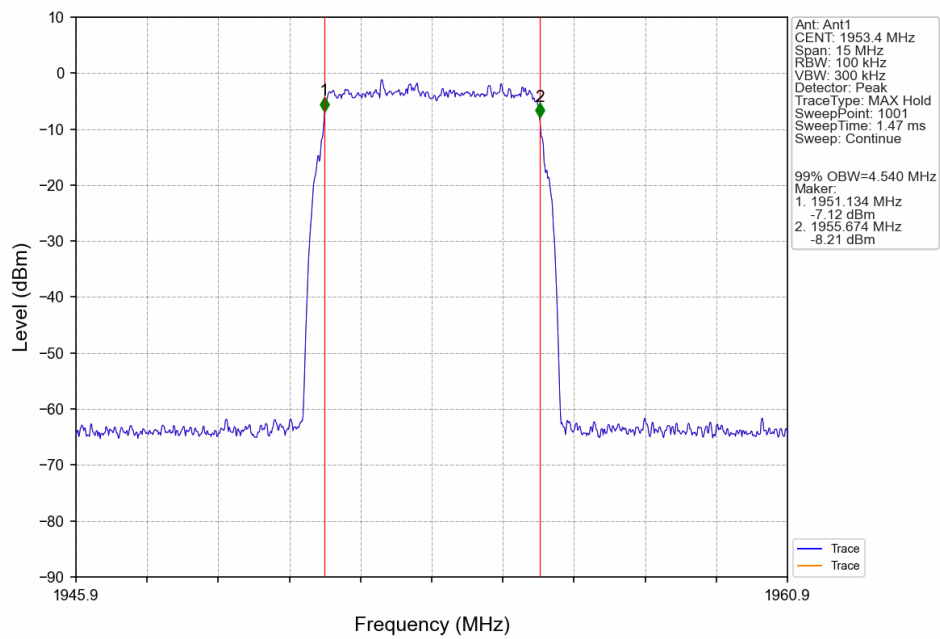
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



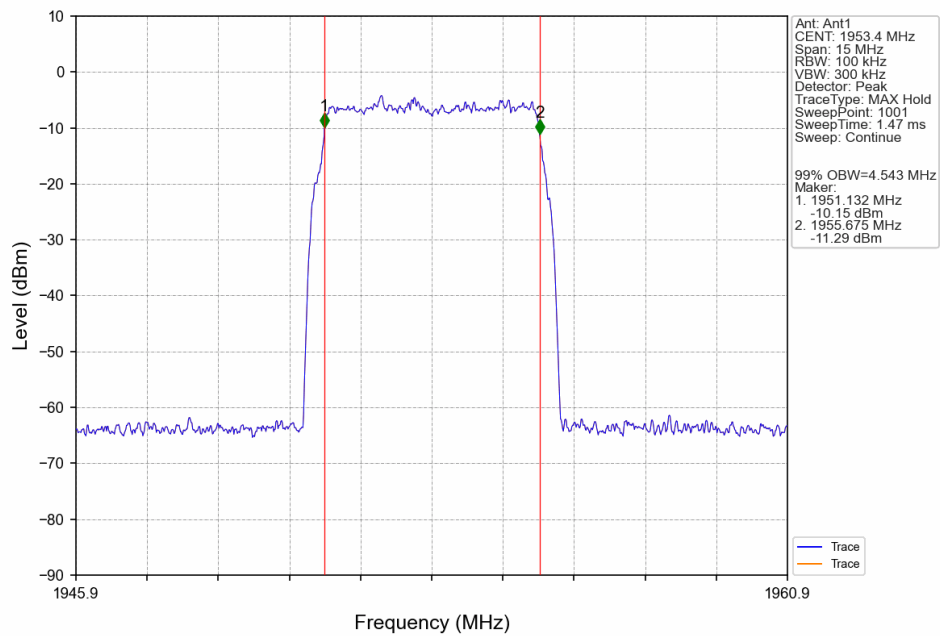
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



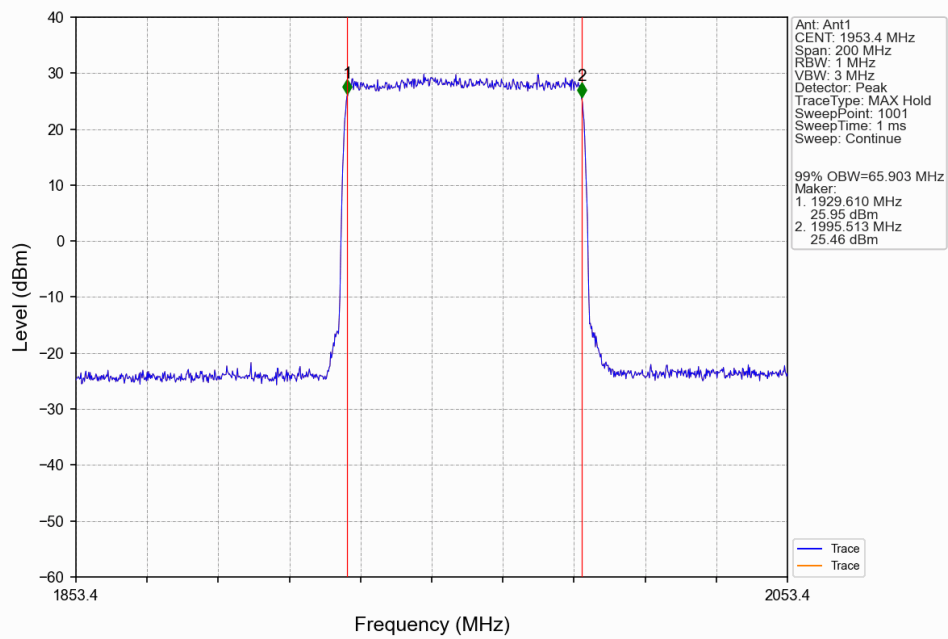
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



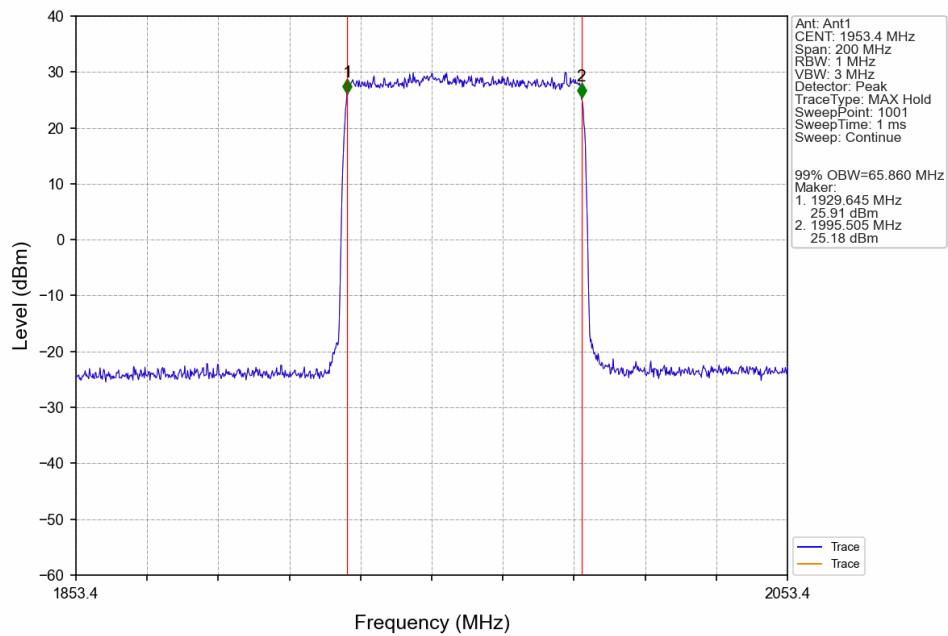
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



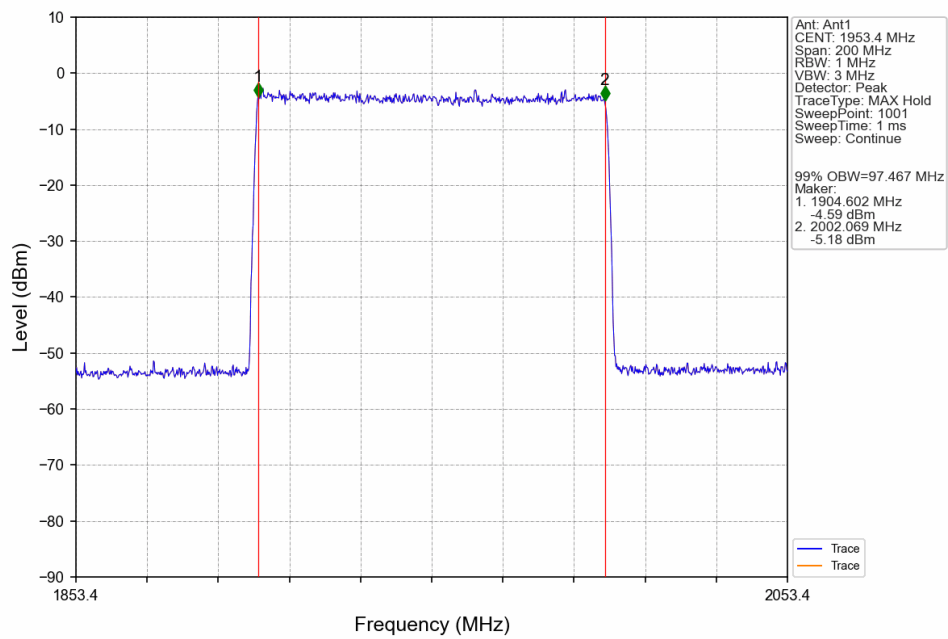
Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



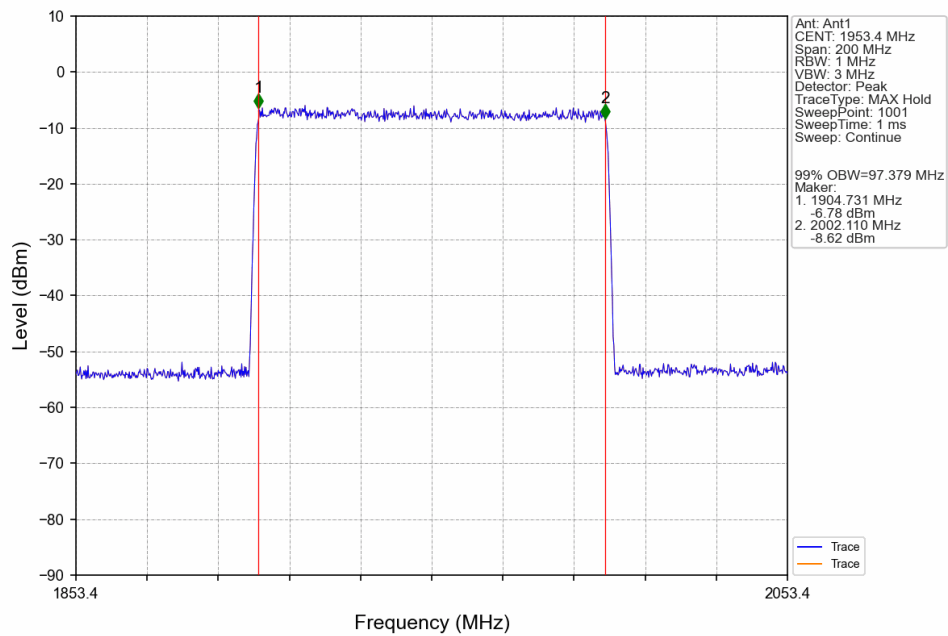
Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3

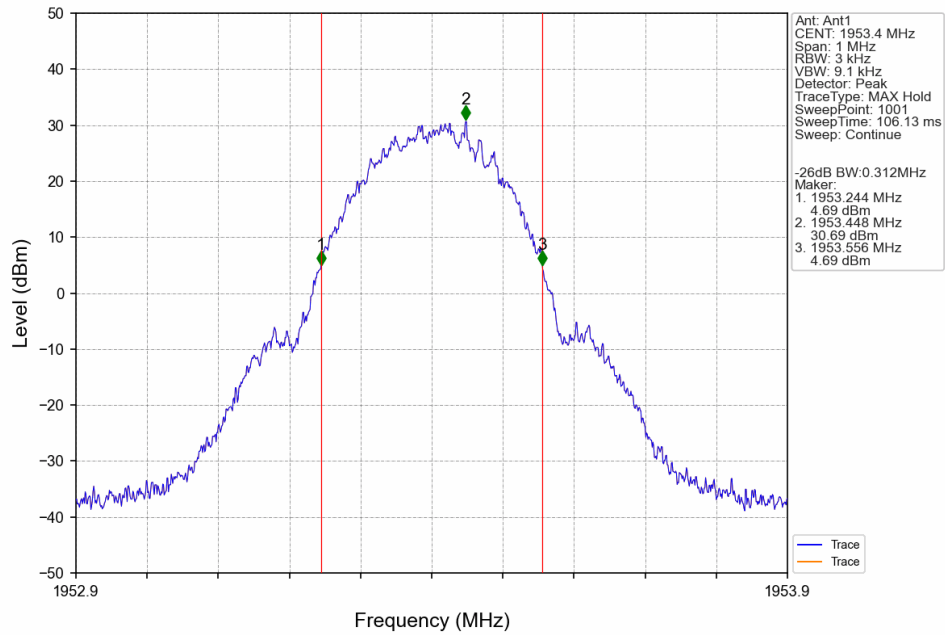


Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC

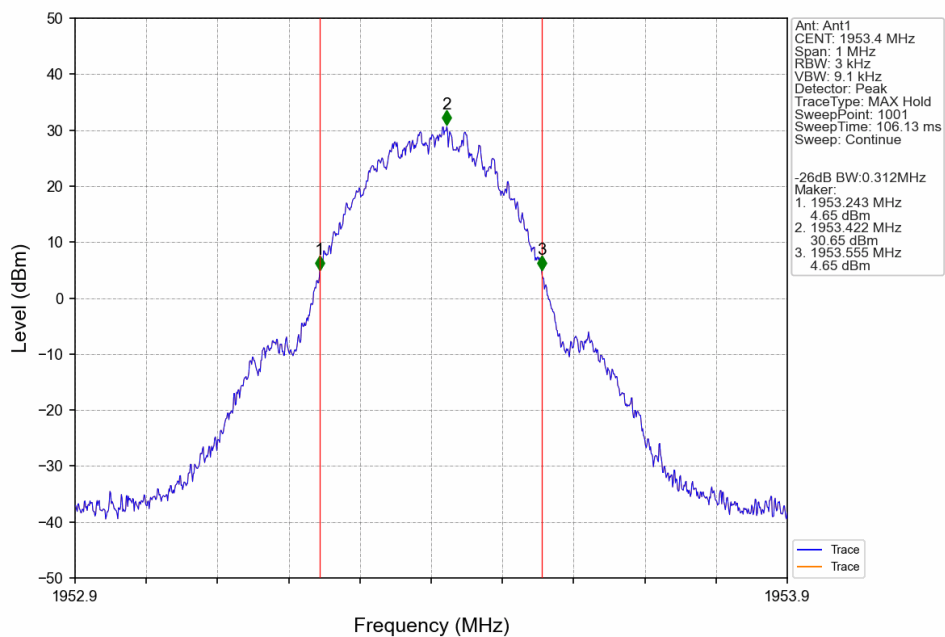


3.2.2 Band25_EBW

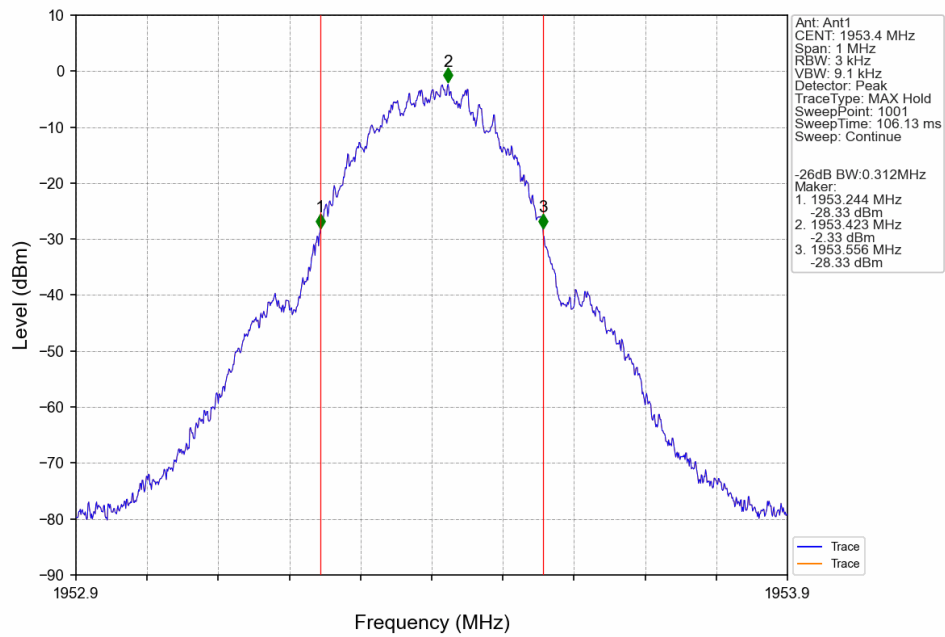
Band25_1953.4MHz_GMSK_SISO_Ant1_NTNV_Output_AGC+3



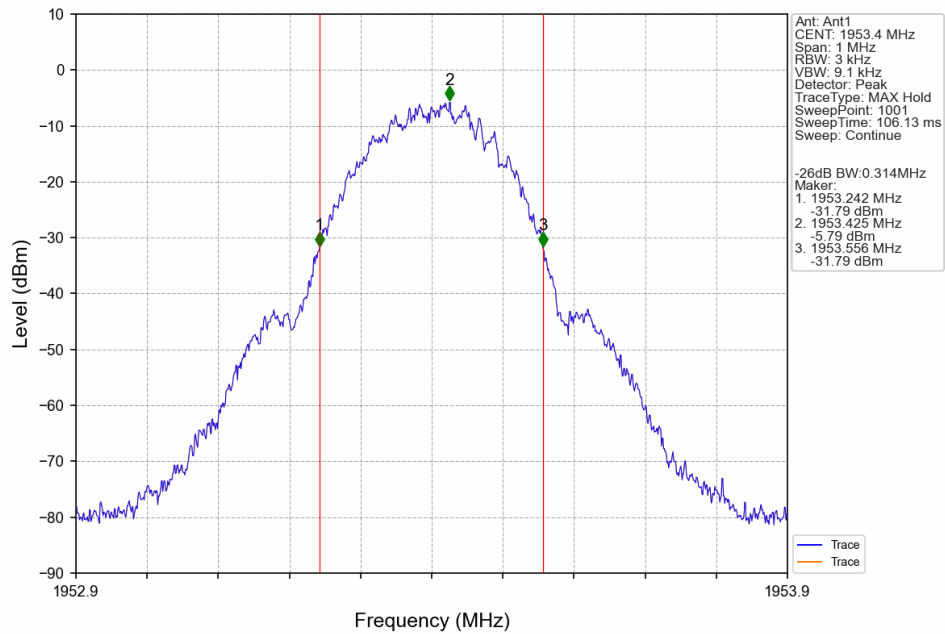
Band25_1953.4MHz_GMSK_SISO_Ant1_NTNV_Output_AGC



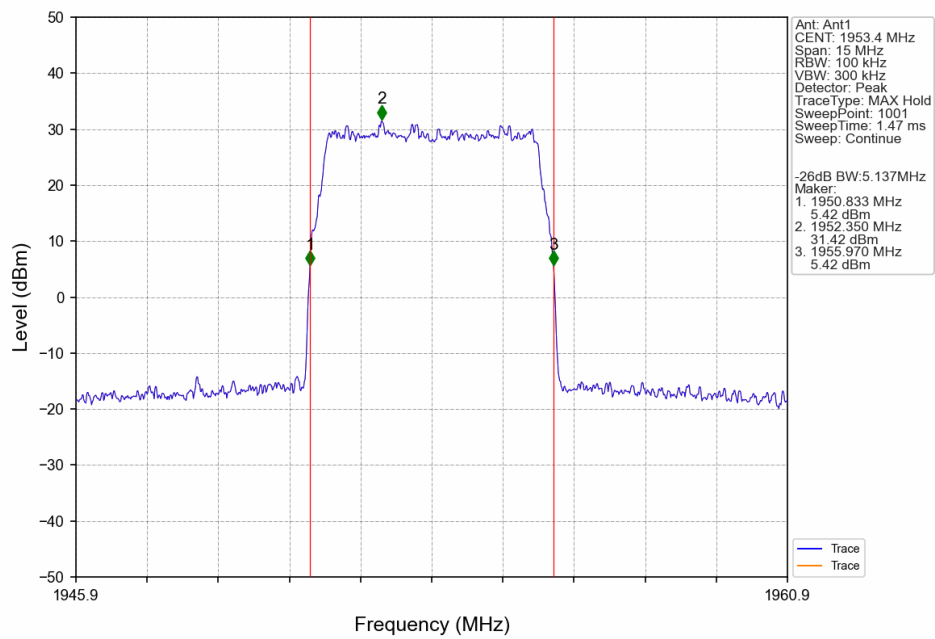
Band25_1953.4MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



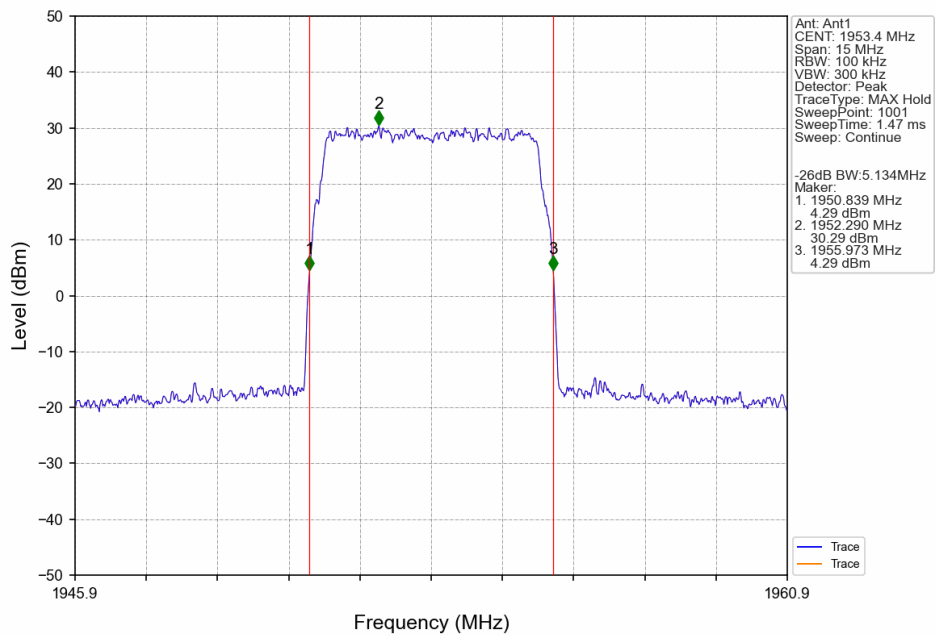
Band25_1953.4MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



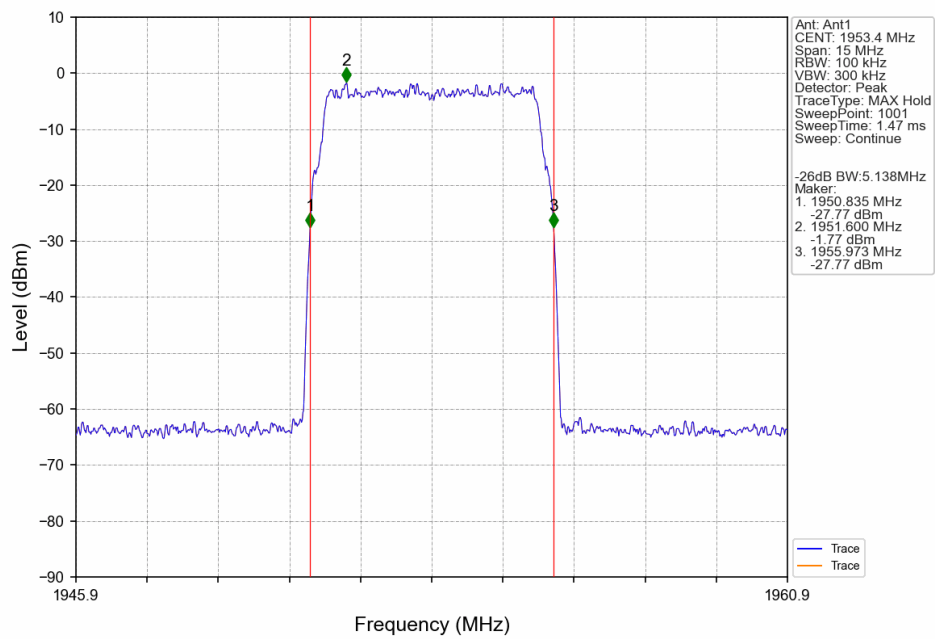
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



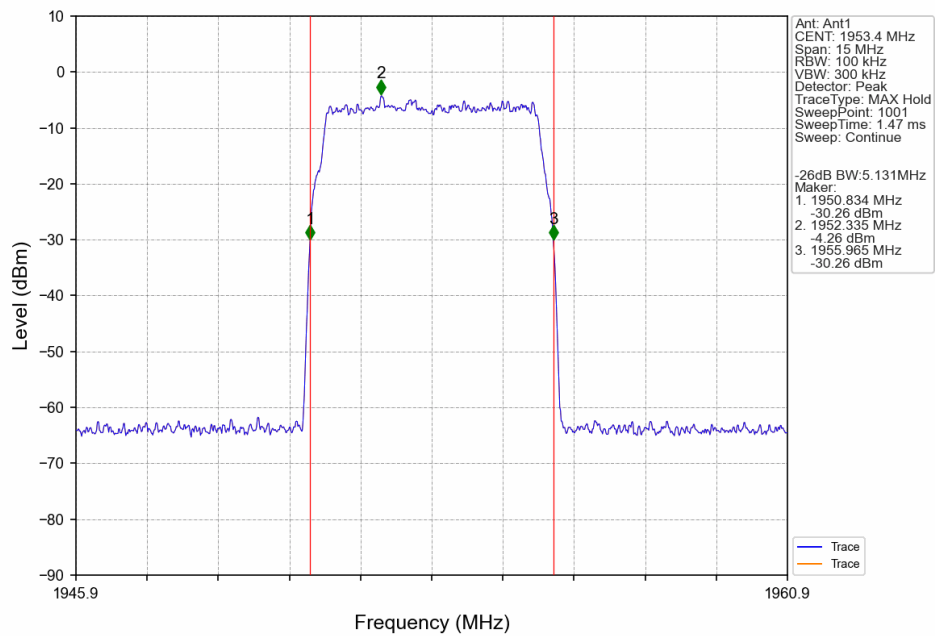
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



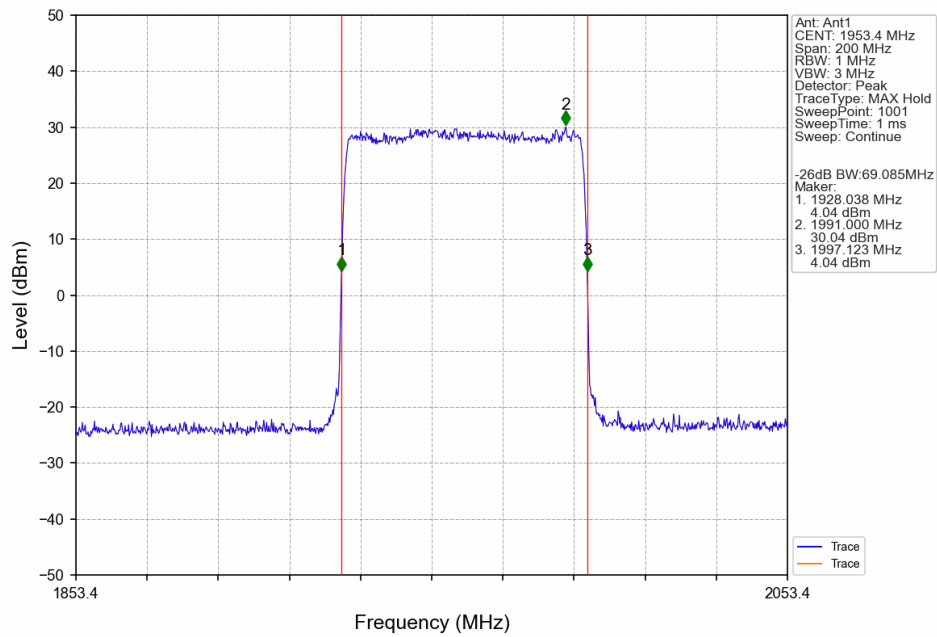
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



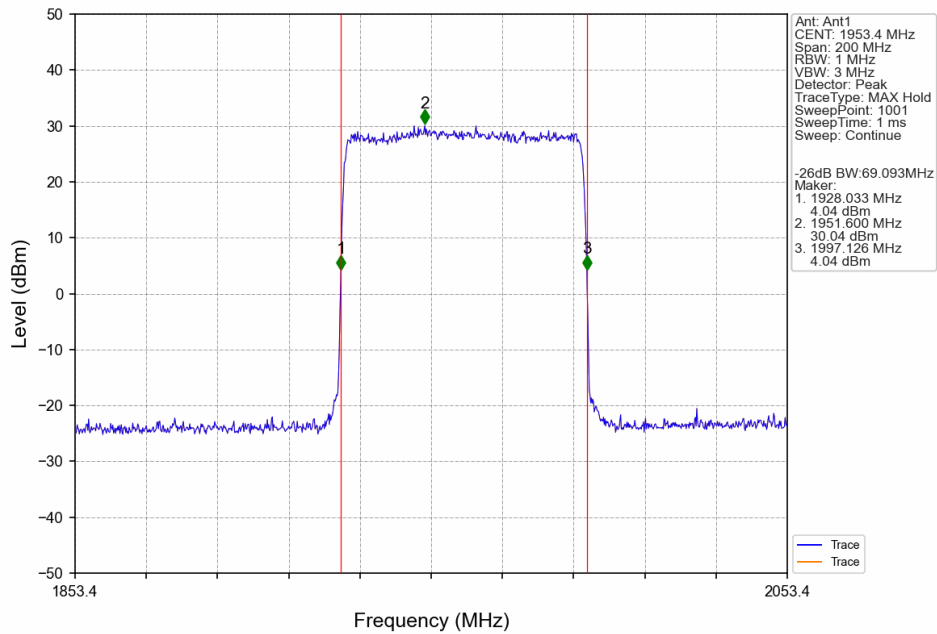
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



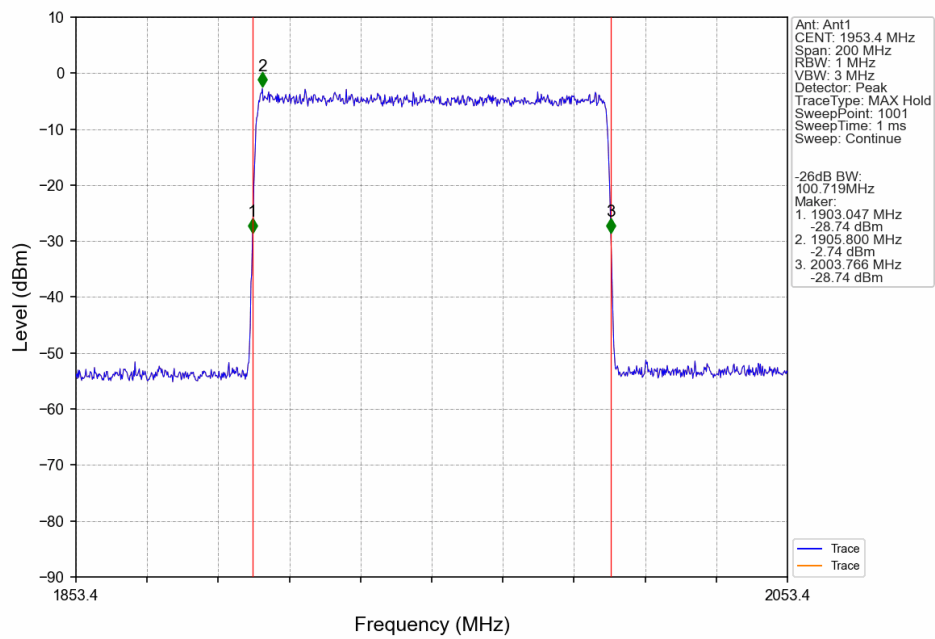
Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



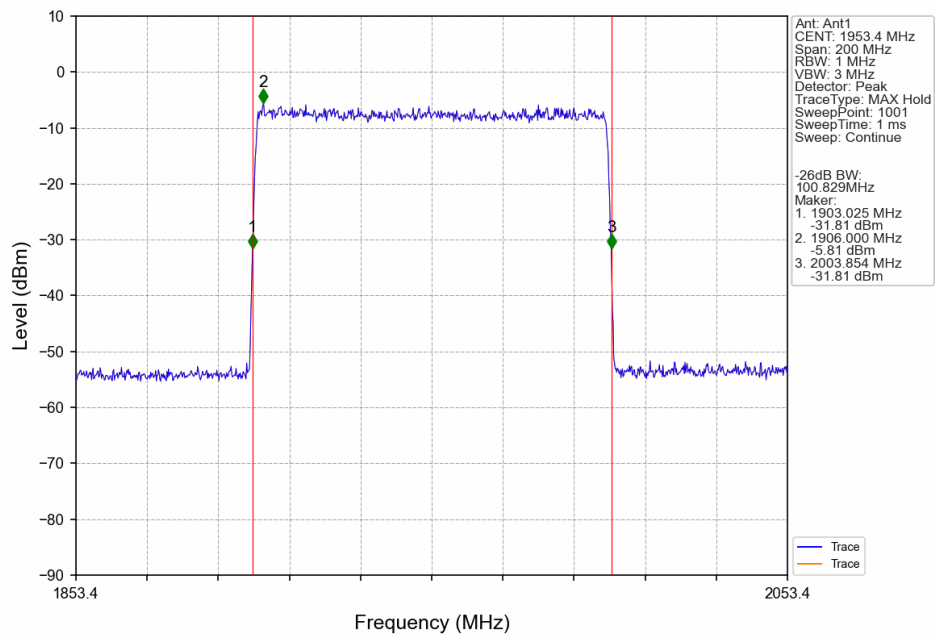
Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3



Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC



4. Input/output power and amplifier/booster gain

4.1 Test Result

4.1.1 Band25_EIRP

Band: 25 / NTNV										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		EIRP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
GMSK	-0.3	1953.4	SISO	1	37.54	-0.31	49.54	<=62.15	37.85	Pass
0.2MHz	2.7	1953.4	SISO	1	37.64	2.62	49.64	<=62.15	/	Pass
AWGN	-0.3	1953.4	SISO	1	30.88	-6.88	42.88	<=62.15	37.76	Pass
5MHz	2.7	1953.4	SISO	1	30.93	-3.79	42.93	<=62.15	/	Pass
AWGN	-0.3	1953.4	SISO	1	17.72	-19.90	29.72	<=62.15	37.62	Pass
100MHz	2.7	1953.4	SISO	1	17.82	-16.93	29.82	<=62.15	/	Pass

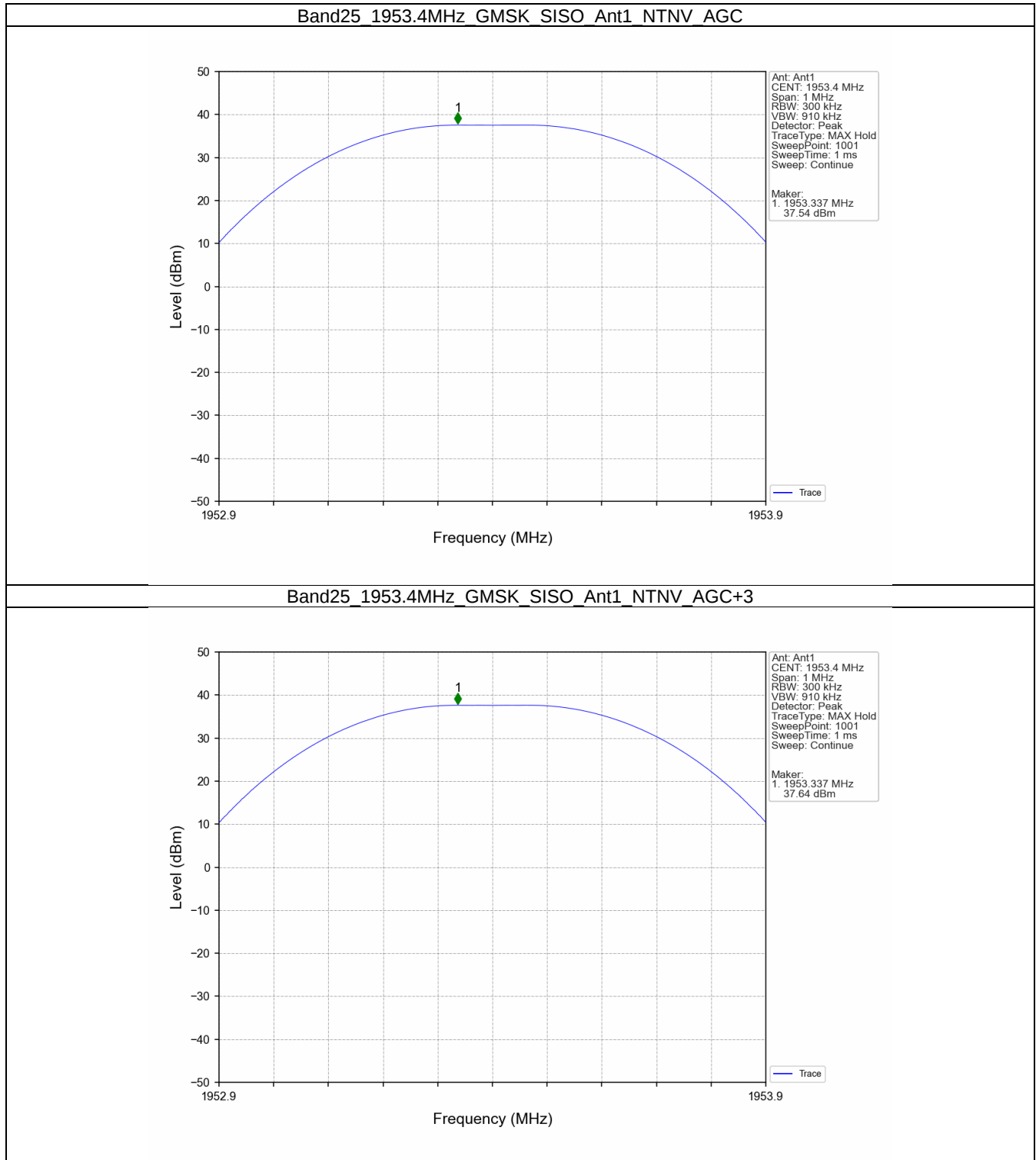
Signal			ANT	Conducted Power (dBm)	EIRP (dBm)	Limit	Verdict
Type	Level (dBm)	Frequency (MHz)		SISO	SISO		
GMSK	-0.3	1953.4	1	37.54	49.54	/	Pass
0.2MHz	2.7	1953.4	1	37.64	49.64	/	Pass
AWGN	-0.3	1953.4	1	37.87	49.87	/	Pass
5MHz	2.7	1953.4	1	37.92	49.92	/	Pass
AWGN	-0.3	1953.4	1	37.72	49.72	/	Pass
100MHz	2.7	1953.4	1	37.82	49.82	/	Pass

4.1.2 Band25_PAPR

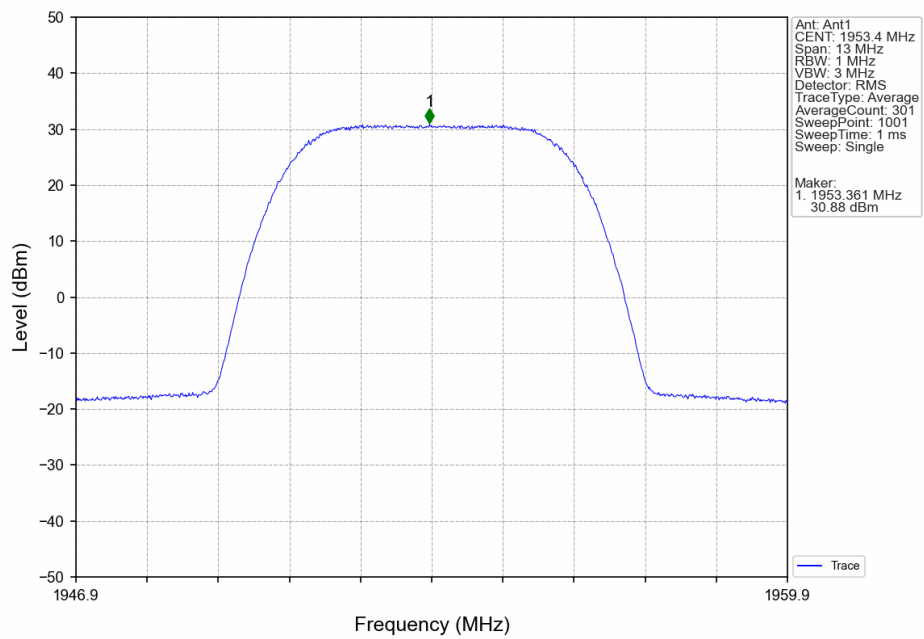
Band: 25 / NTNV							
Signal			TX Type	ANT	PAPR (dB)		Verdict
Type	Level (dBm)	Frequency (MHz)			Result	Limit	
GMSK	-0.3	1953.4	SISO	1	0.22	<=13	Pass
0.2MHz	2.7	1953.4	SISO	1	0.20	<=13	Pass
AWGN	-0.3	1953.4	SISO	1	8.33	<=13	Pass
5MHz	2.7	1953.4	SISO	1	8.25	<=13	Pass
AWGN	-0.3	1953.4	SISO	1	8.49	<=13	Pass
100MHz	2.7	1953.4	SISO	1	8.39	<=13	Pass

4.2 Test Graph

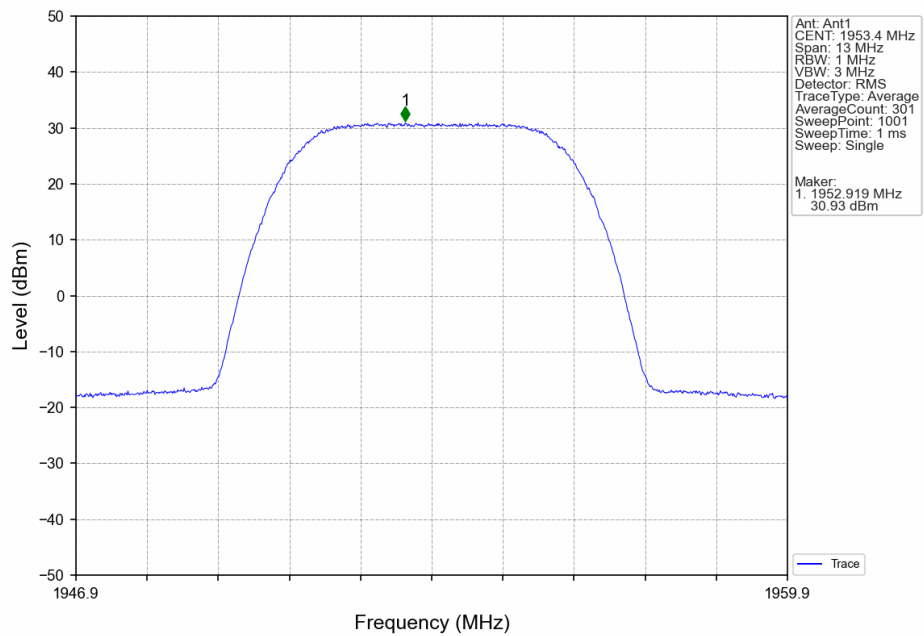
4.2.1 Band25_EIRP



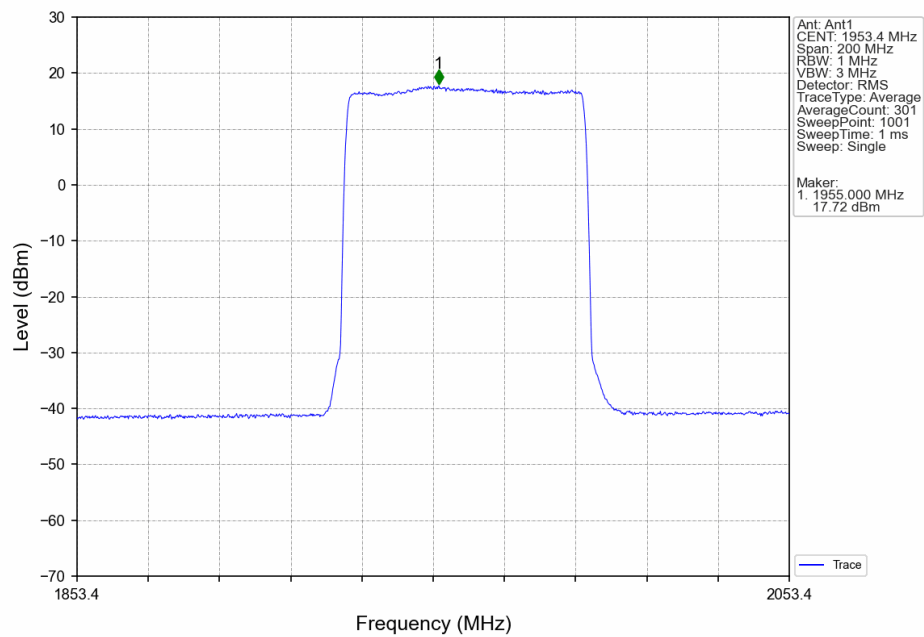
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_AGC



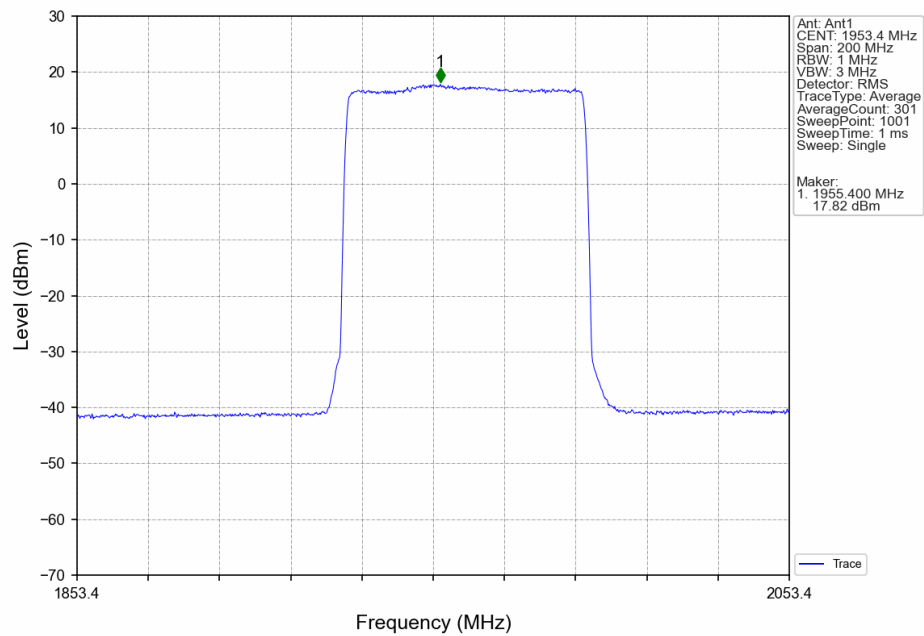
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_AGC+3



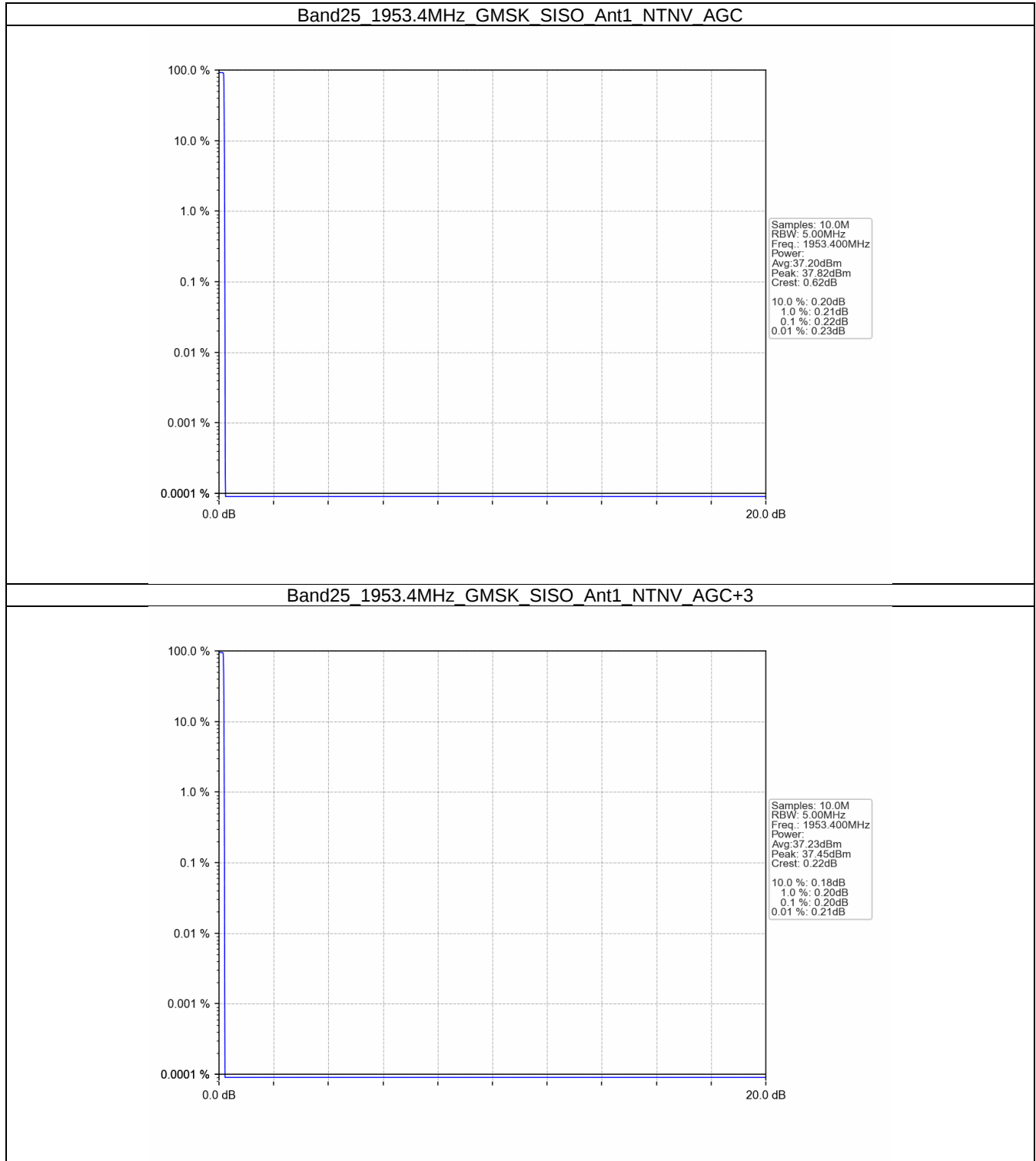
Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



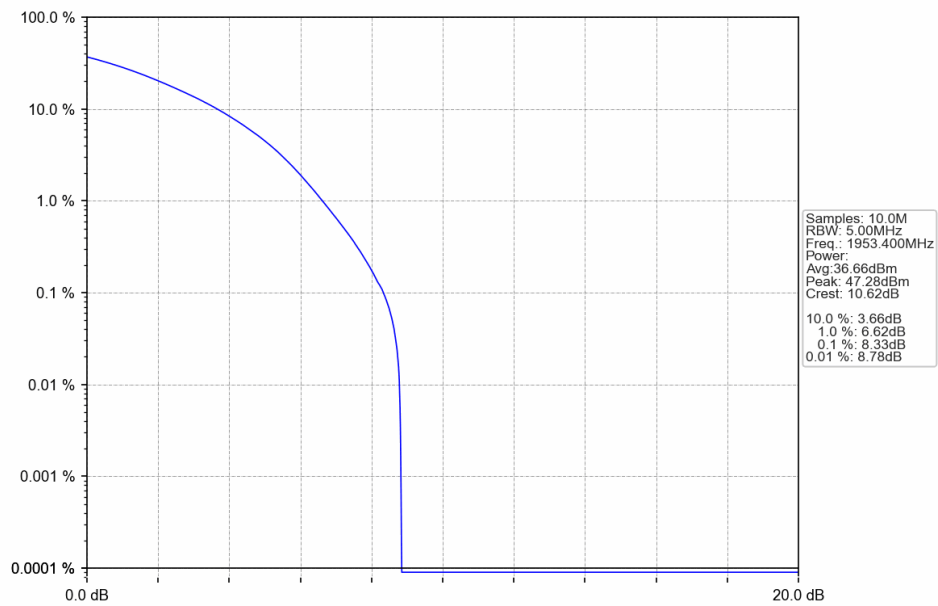
Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



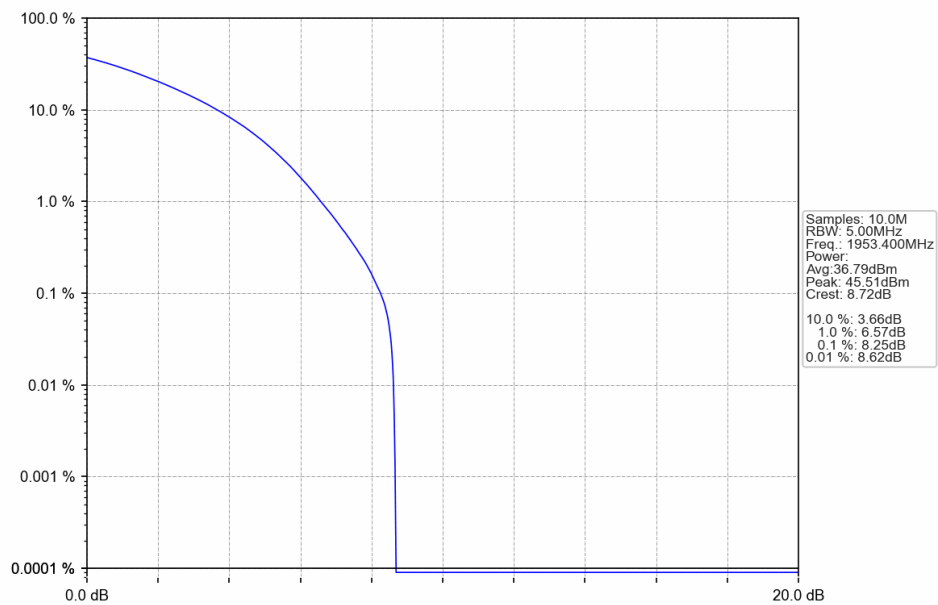
4.2.2 Band25_PAPR



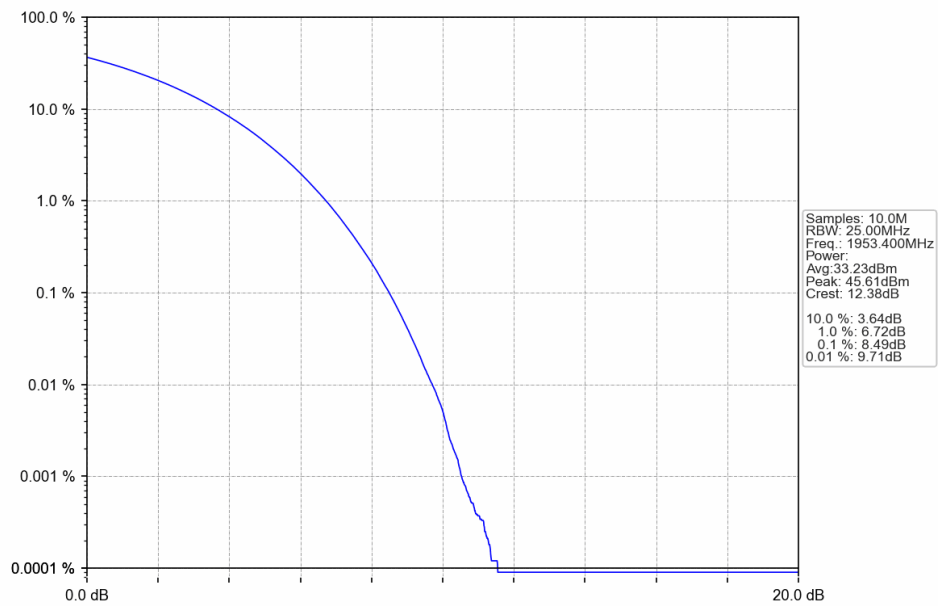
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_AGC



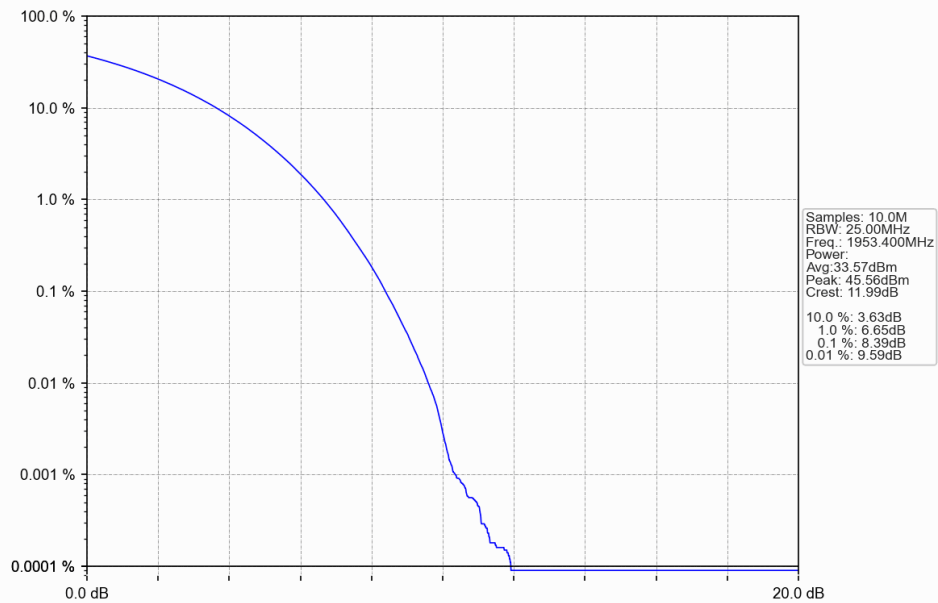
Band25_1953.4MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band25_1953.4MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



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

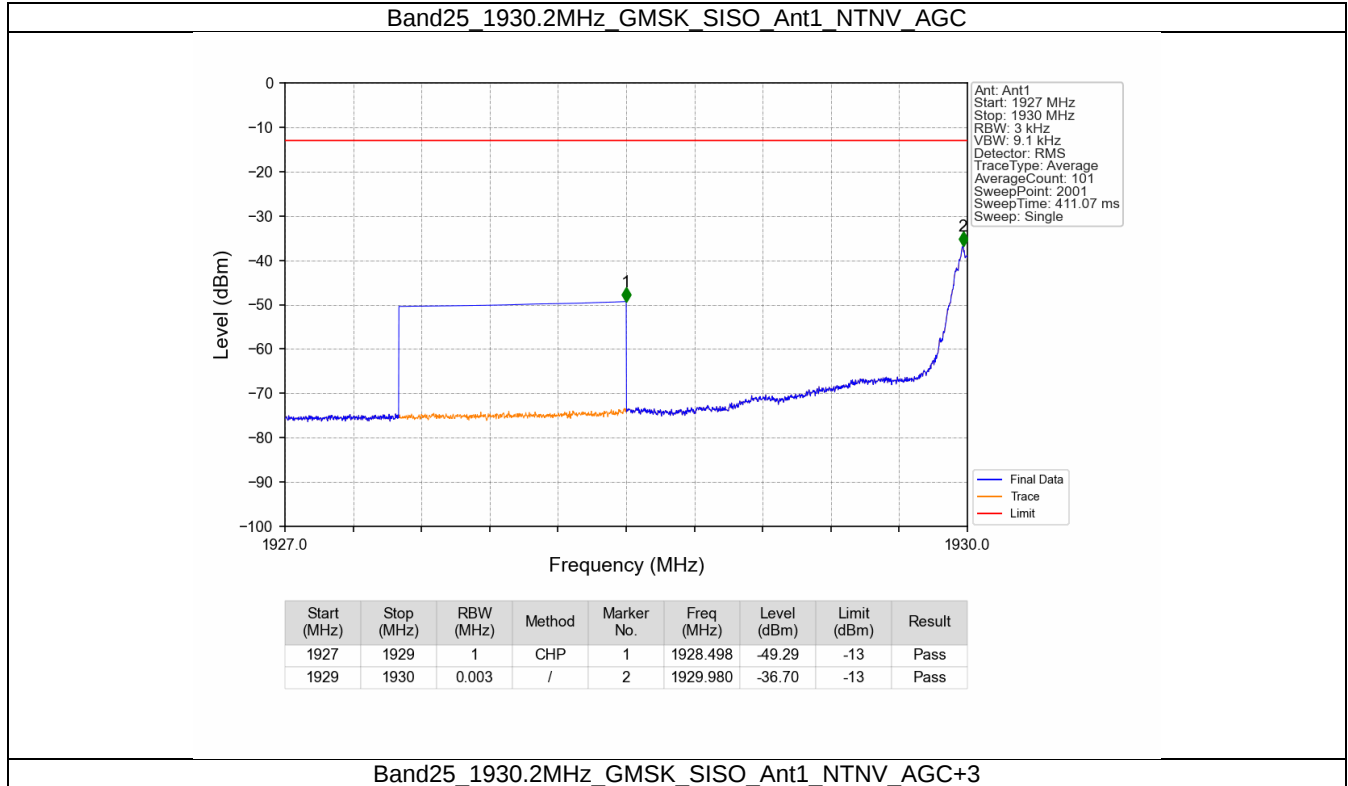
5.1 Test Result

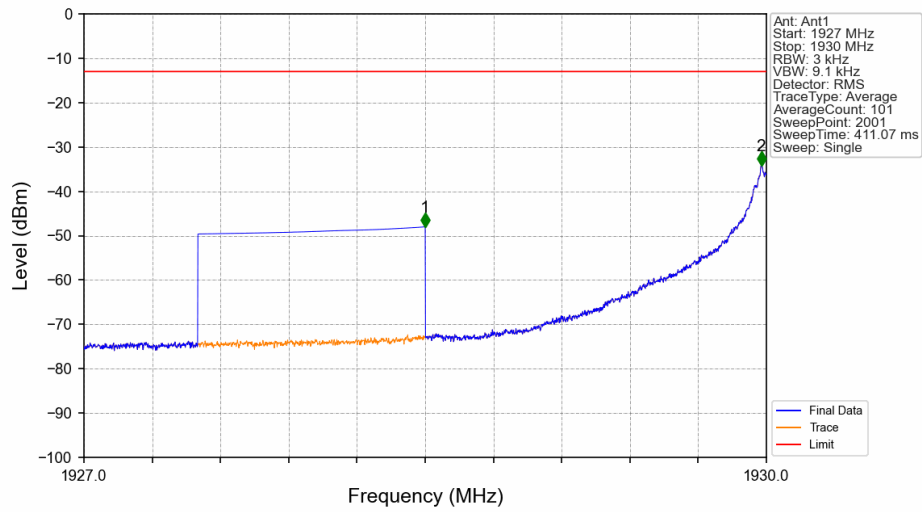
5.1.1 Band25

Band: 25 / NTNV									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	GMSK 0.2MHz	-0.3	1930.2	LCH	SISO	1	-36.70	Refer To Test Graph	Pass
		2.7	1930.2	LCH	SISO	1	-34.11	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-0.3	1930.2	LCH	SISO	1	-36.77	Refer To Test Graph	Pass
		2.7	1930.2	LCH	SISO	1	-33.74	Refer To Test Graph	Pass
Two	GMSK 0.2MHz	-0.3	1994.8	HCH	SISO	1	-32.03	Refer To Test Graph	Pass
		2.7	1994.8	HCH	SISO	1	-31.89	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-0.3	1994.8	HCH	SISO	1	-35.42	Refer To Test Graph	Pass
		2.7	1994.8	HCH	SISO	1	-32.00	Refer To Test Graph	Pass
Two	AWGN 5MHz	-0.3	1932.5	LCH	SISO	1	-20.26	Refer To Test Graph	Pass
		2.7	1932.5	LCH	SISO	1	-19.59	Refer To Test Graph	Pass
One	AWGN 5MHz	-0.3	1932.5	LCH	SISO	1	-30.51	Refer To Test Graph	Pass
		2.7	1932.5	LCH	SISO	1	-24.41	Refer To Test Graph	Pass
Two	AWGN 5MHz	-0.3	1992.5	HCH	SISO	1	-21.37	Refer To Test Graph	Pass
		2.7	1992.5	HCH	SISO	1	-19.34	Refer To Test Graph	Pass
One	AWGN 5MHz	-0.3	1992.5	HCH	SISO	1	-28.51	Refer To Test Graph	Pass
		2.7	1992.5	HCH	SISO	1	-23.82	Refer To Test Graph	Pass
Two	AWGN 100MHz	-0.3	1980	LCH	SISO	1	-17.45	Refer To Test Graph	Pass
		2.7	1980	LCH	SISO	1	-15.92	Refer To Test Graph	Pass
One	AWGN 100MHz	-0.3	1980	LCH	SISO	1	-20.17	Refer To Test Graph	Pass
		2.7	1980	LCH	SISO	1	-16.84	Refer To Test Graph	Pass
Two	AWGN 100MHz	-0.3	1945	HCH	SISO	1	-17.96	Refer To Test Graph	Pass
		2.7	1945	HCH	SISO	1	-15.99	Refer To Test Graph	Pass
One	AWGN 100MHz	-0.3	1945	HCH	SISO	1	-20.31	Refer To Test Graph	Pass
		2.7	1945	HCH	SISO	1	-17.58	Refer To Test Graph	Pass

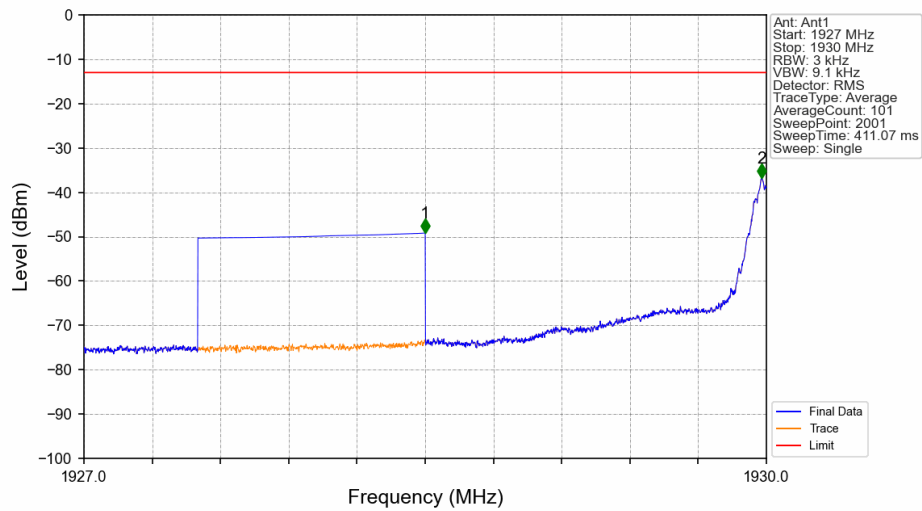
5.2 Test Graph

5.2.1 Band25

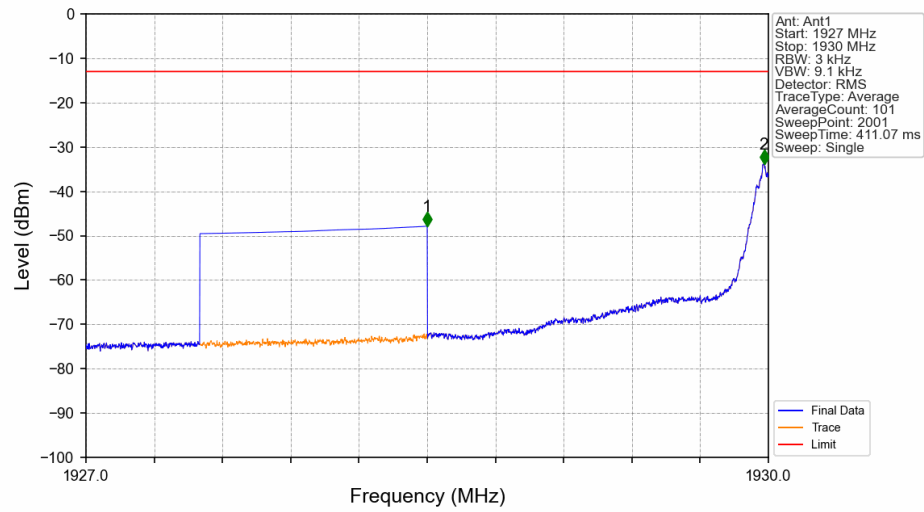




Band25_1930.2MHz_GMSK_SISO_Ant1_NTNV_AGC

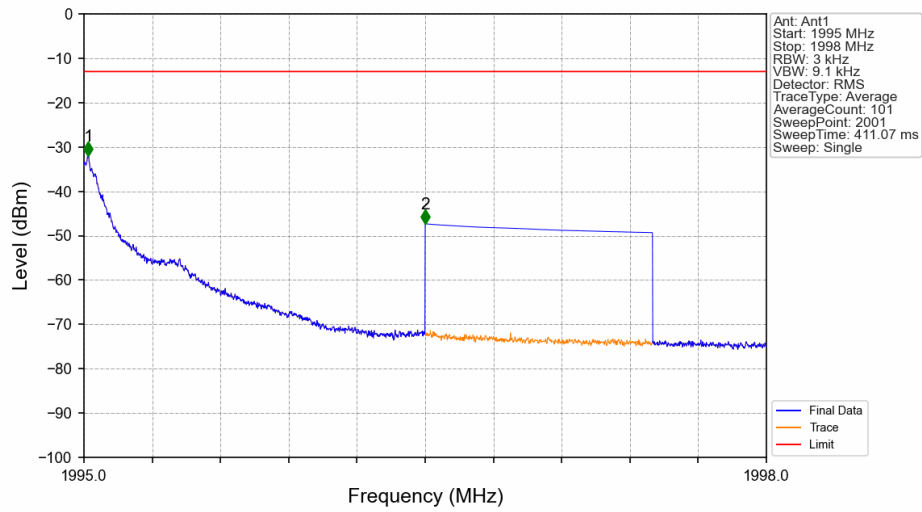


Band25_1930.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



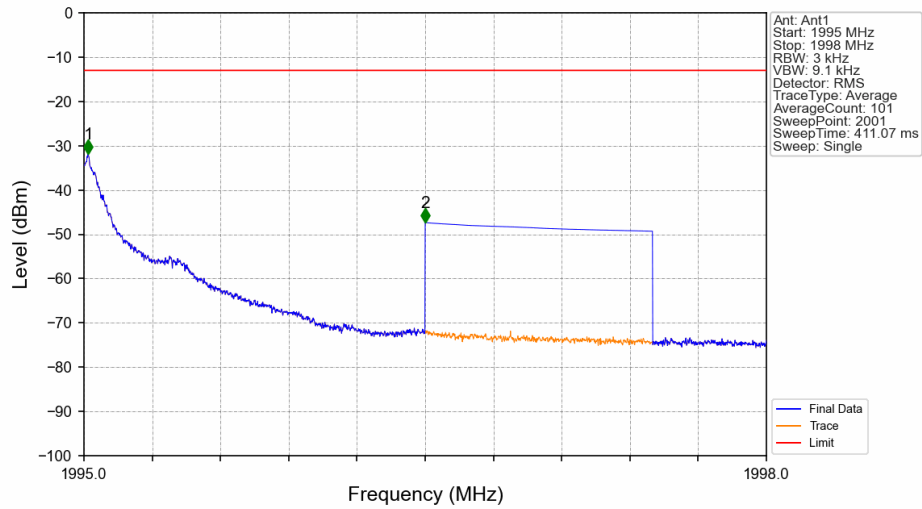
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1927	1929	1	CHP	1	1928.498	-47.87	-13	Pass
1929	1930	0.003	/	2	1929.980	-33.74	-13	Pass

Band25_1994.8MHz_GMSK_SISO_Ant1_NTNV_AGC



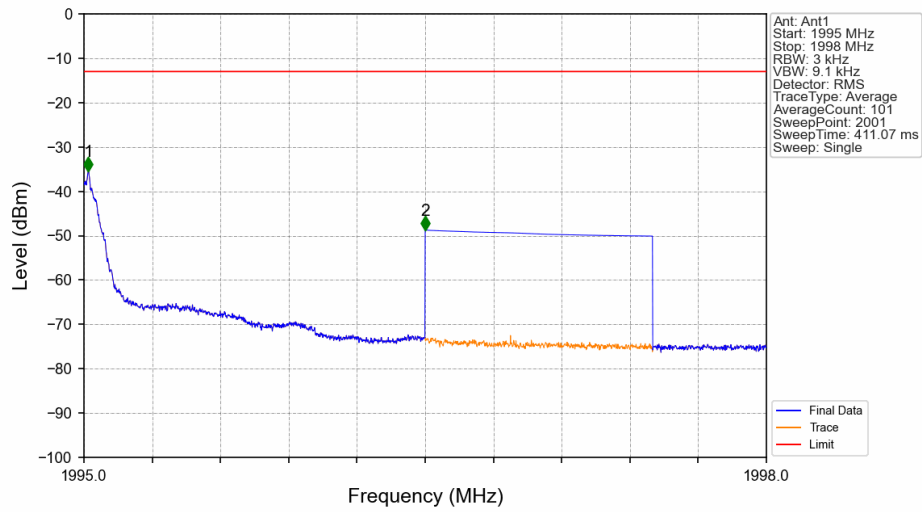
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	0.003	/	1	1995.020	-32.03	-13	Pass
1996	1998	1	CHP	2	1996.500	-47.33	-13	Pass

Band25_1994.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3



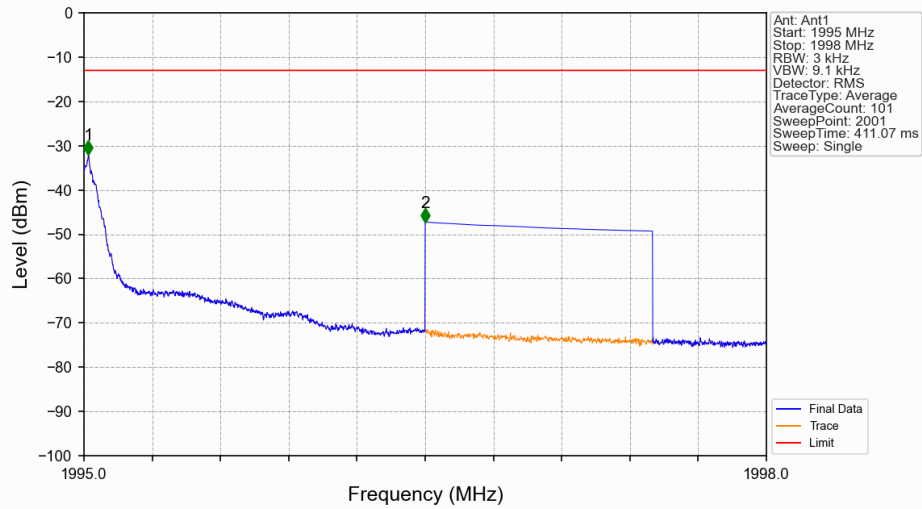
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	0.003	/	1	1995.018	-31.90	-13	Pass
1996	1998	1	CHP	2	1996.500	-47.35	-13	Pass

Band25_1994.8MHz_GMSK_SISO_Ant1_NTNV_AGC



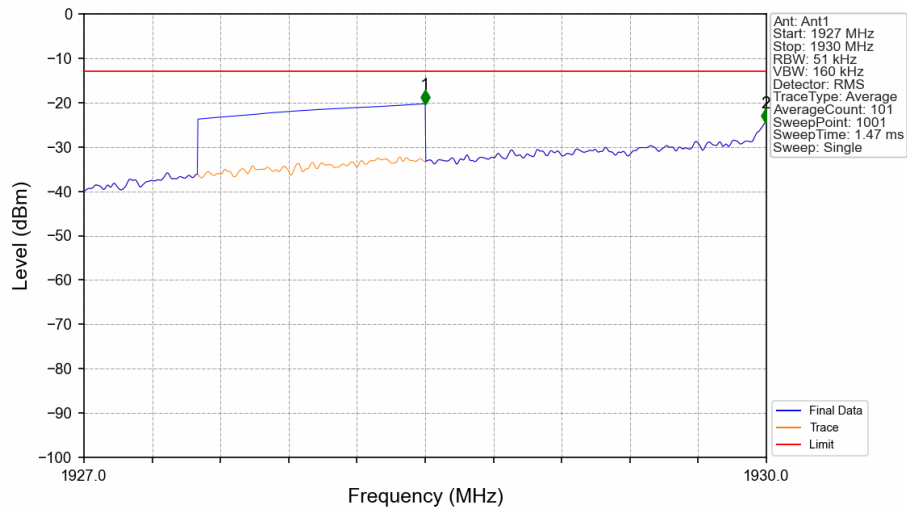
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	0.003	/	1	1995.020	-35.42	-13	Pass
1996	1998	1	CHP	2	1996.500	-48.73	-13	Pass

Band25_1994.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3

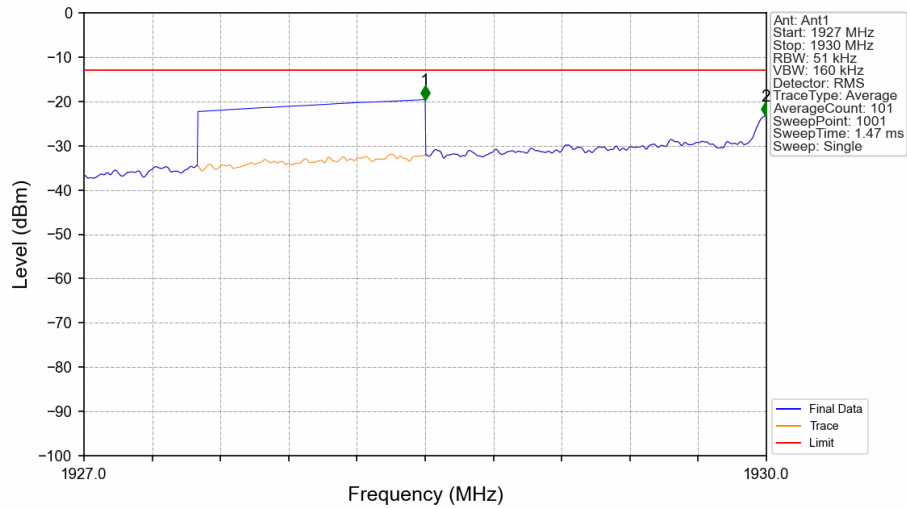


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	0.003	/	1	1995.020	-32.00	-13	Pass
1996	1998	1	CHP	2	1996.500	-47.23	-13	Pass

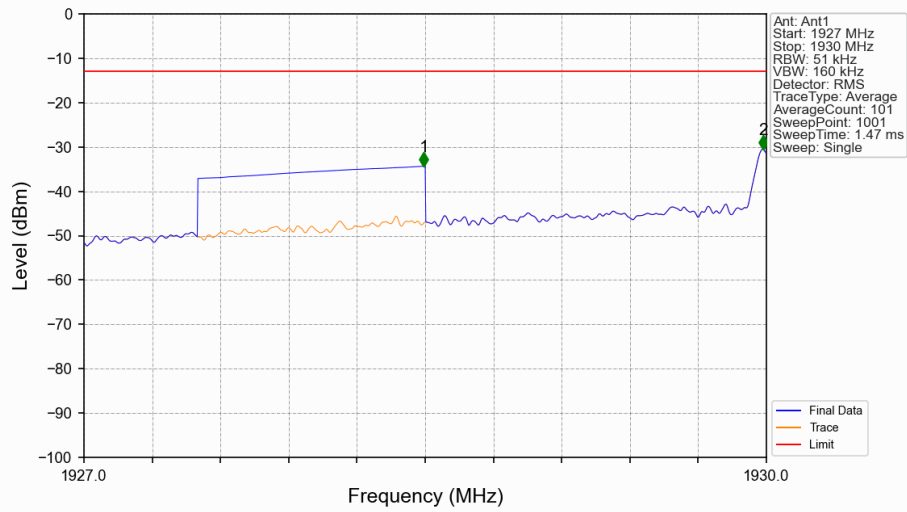
Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3

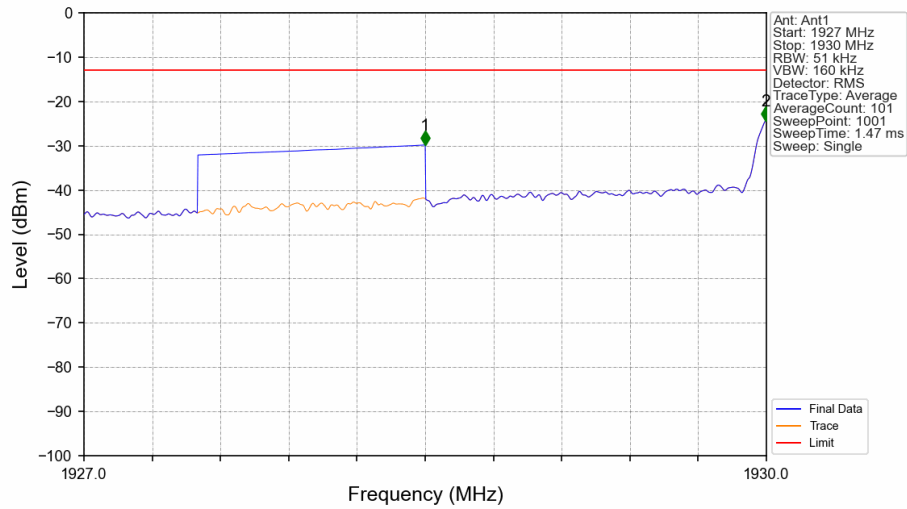


Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV_AGC



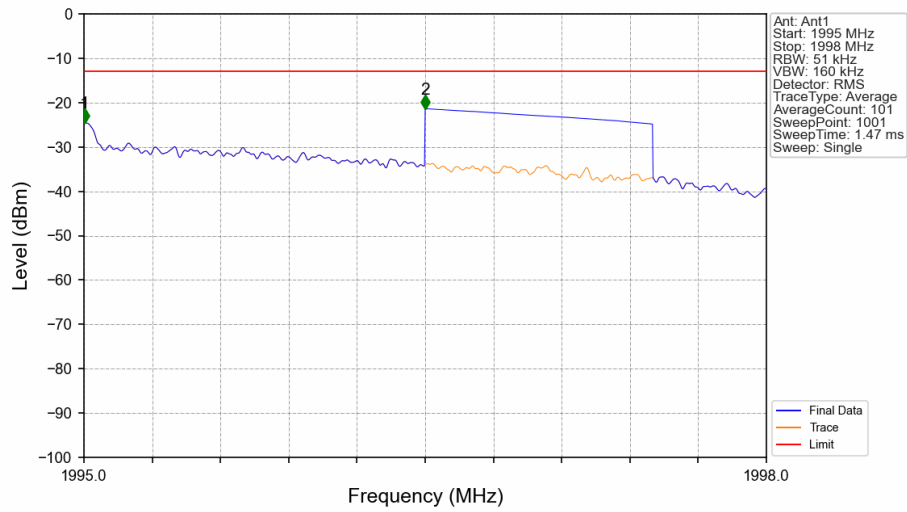
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1927	1929	1	CHP	1	1928.494	-34.34	-13	Pass
1929	1930	0.051	/	2	1929.985	-30.51	-13	Pass

Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



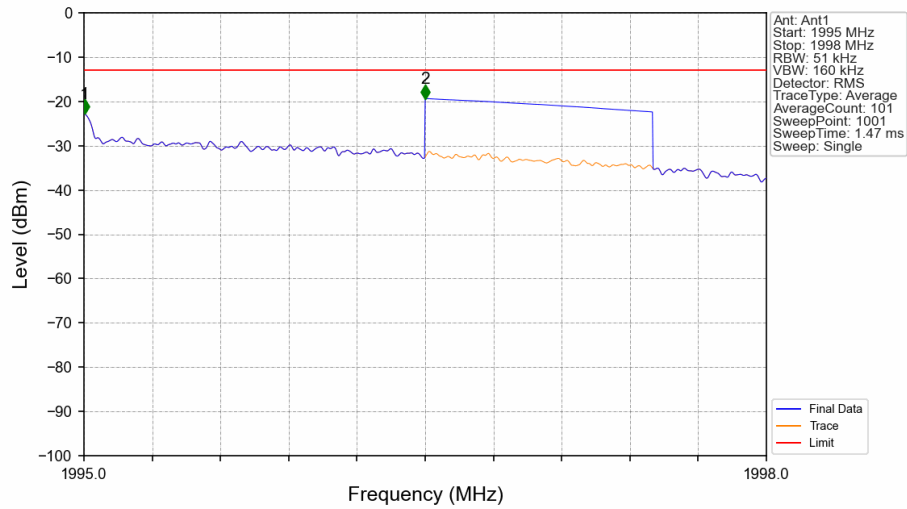
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1927	1929	1	CHP	1	1928.500	-29.84	-13	Pass
1929	1930	0.051	/	2	1929.997	-24.41	-13	Pass

Band25_1992.5MHz_AWGN_SISO_Ant1_NTNV_AGC



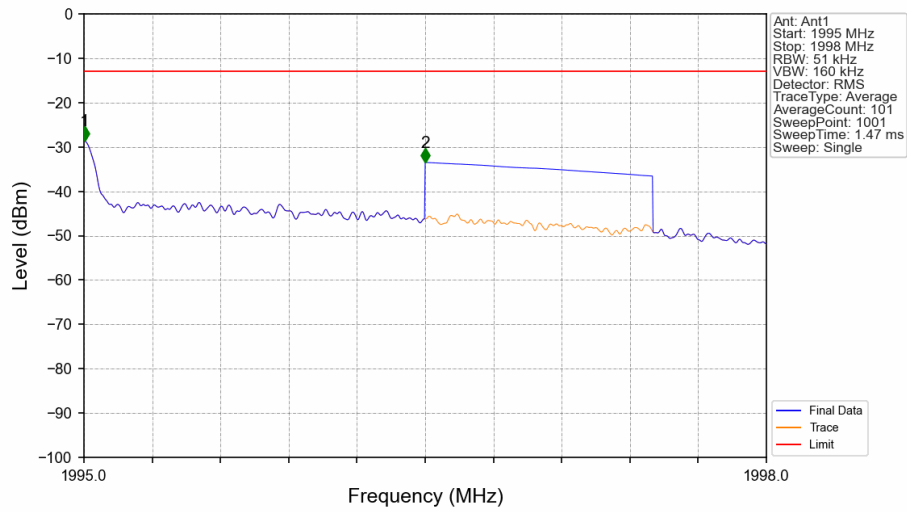
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	0.051	/	1	1995.003	-24.56	-13	Pass
1996	1998	1	CHP	2	1996.500	-21.37	-13	Pass

Band25_1992.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



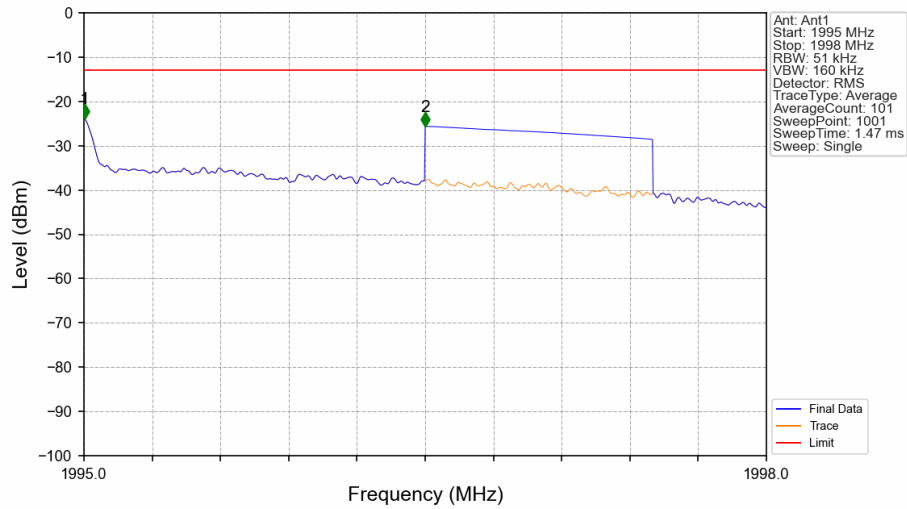
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	0.051	/	1	1995.003	-22.79	-13	Pass
1996	1998	1	CHP	2	1996.500	-19.34	-13	Pass

Band25_1992.5MHz_AWGN_SISO_Ant1_NTNV_AGC



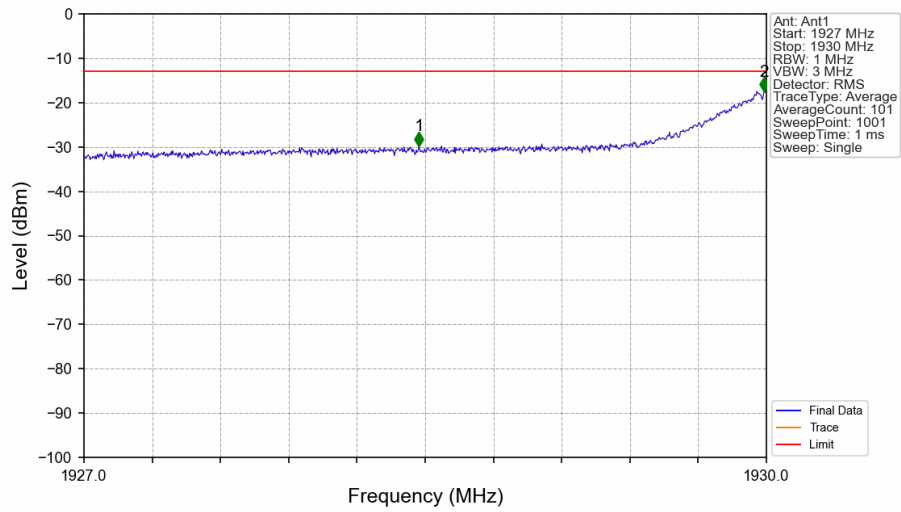
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	0.051	/	1	1995.003	-28.51	-13	Pass
1996	1998	1	CHP	2	1996.500	-33.48	-13	Pass

Band25_1992.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3

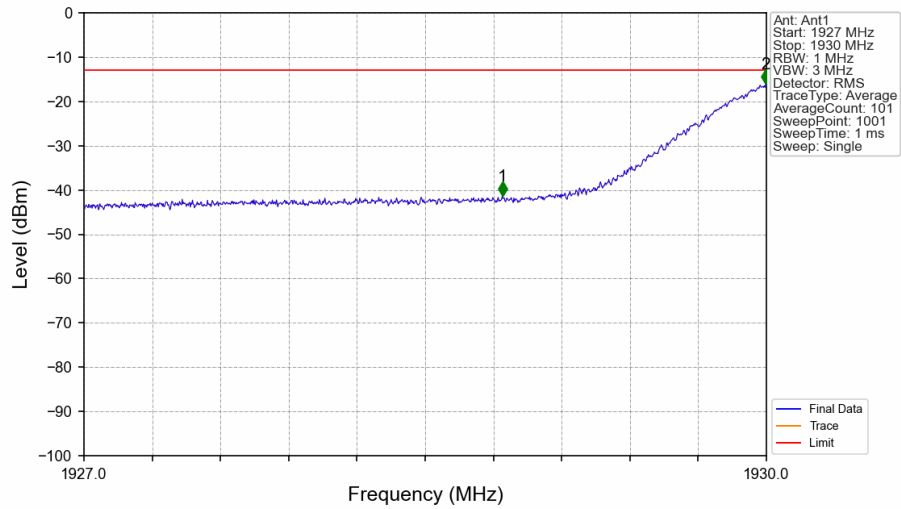


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	0.051	/	1	1995.003	-23.82	-13	Pass
1996	1998	1	CHP	2	1996.500	-25.63	-13	Pass

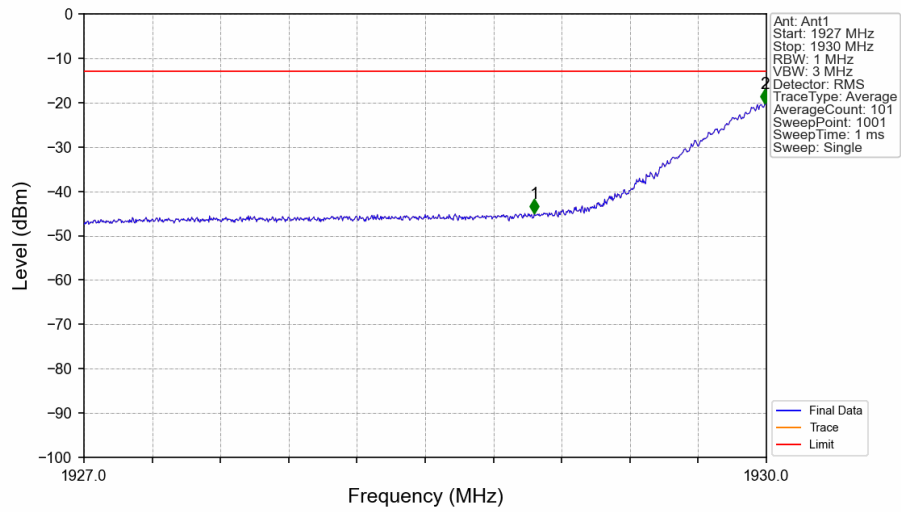
Band25_1980MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band25_1980MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

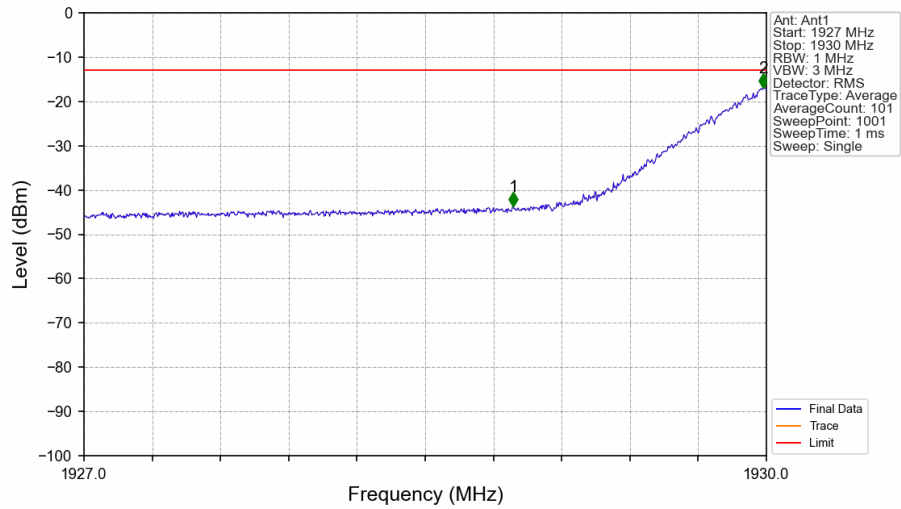


Band25_1980MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



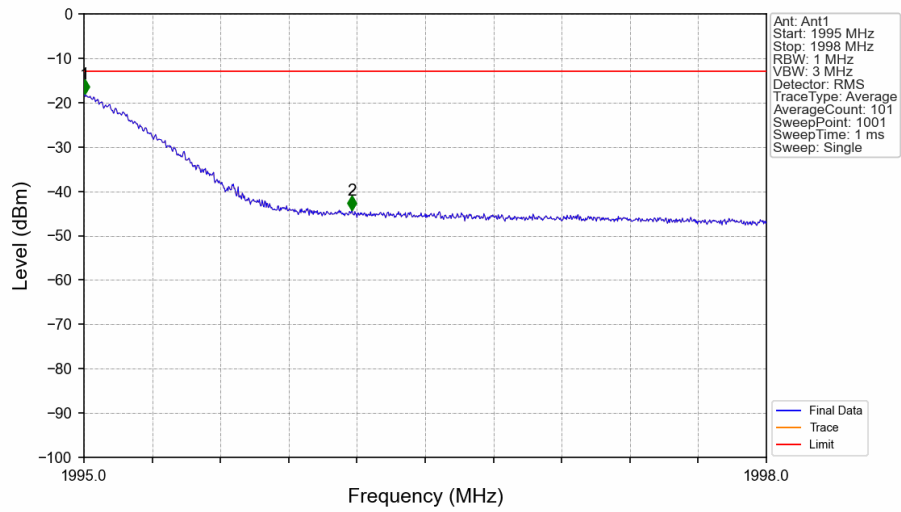
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1927	1929	1	/	1	1928.980	-44.93	-13	Pass
1929	1930	1.008	/	2	1929.994	-20.17	-13	Pass

Band25_1980MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



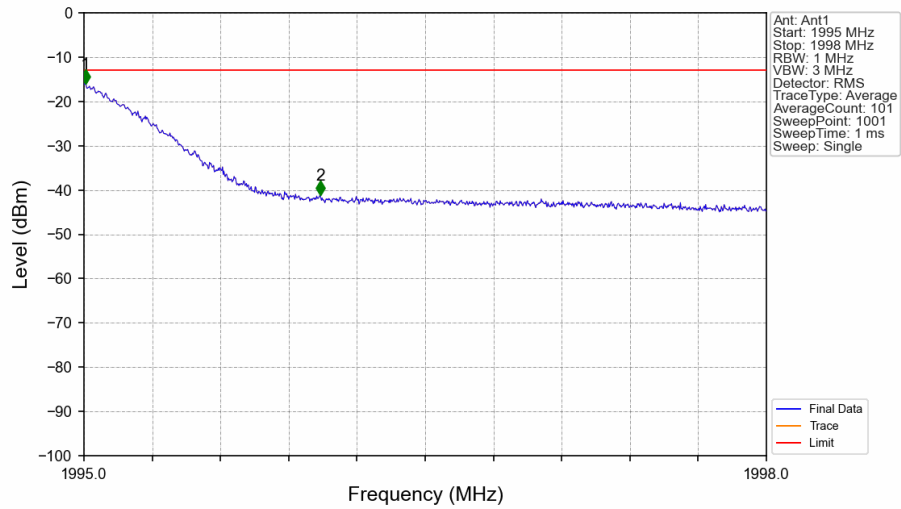
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1927	1929	1	/	1	1928.887	-43.75	-13	Pass
1929	1930	1.008	/	2	1929.985	-16.85	-13	Pass

Band25_1945MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



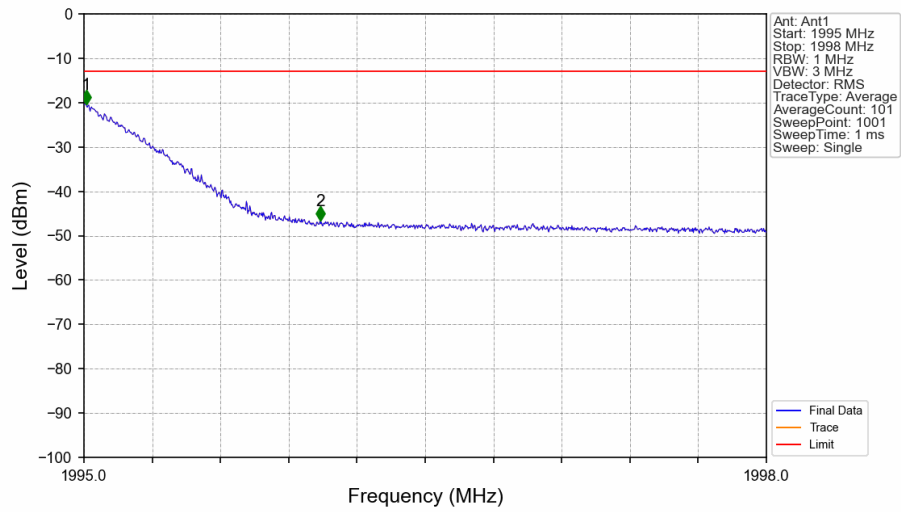
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	1.008	/	1	1995.003	-17.96	-13	Pass
1996	1998	1	/	2	1996.179	-44.23	-13	Pass

Band25_1945MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



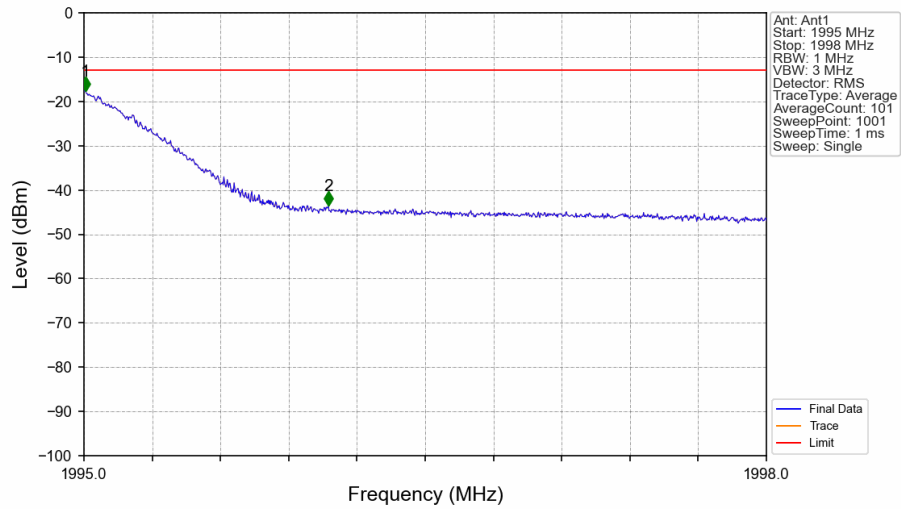
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	1.008	/	1	1995.006	-16.00	-13	Pass
1996	1998	1	/	2	1996.038	-41.17	-13	Pass

Band25_1945MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	1.008	/	1	1995.009	-20.31	-13	Pass
1996	1998	1	/	2	1996.038	-46.58	-13	Pass

Band25_1945MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1995	1996	1.008	/	1	1995.006	-17.58	-13	Pass
1996	1998	1	/	2	1996.074	-43.53	-13	Pass

6. Spurious emissions

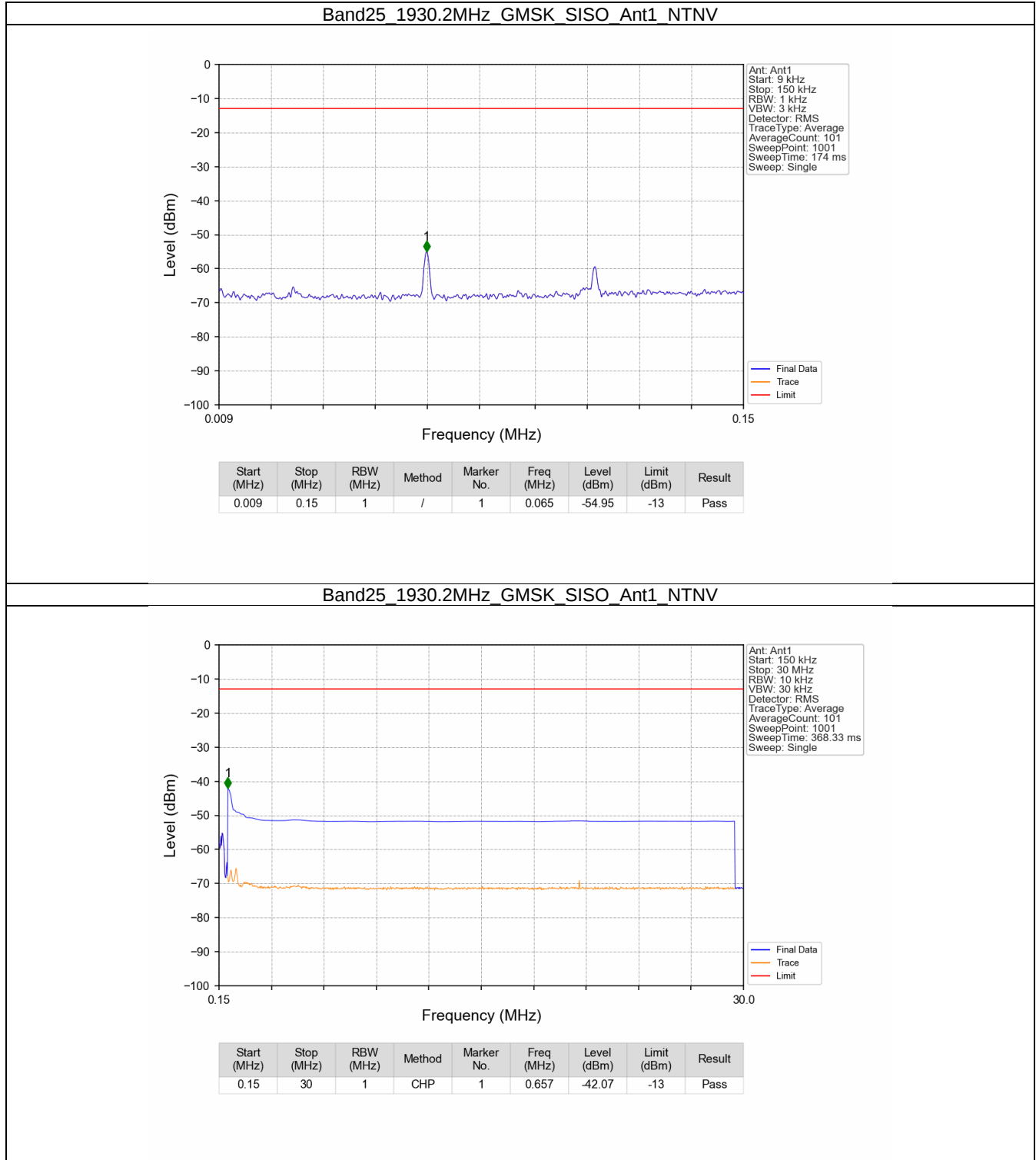
6.1 Test Result

6.1.1 Band25

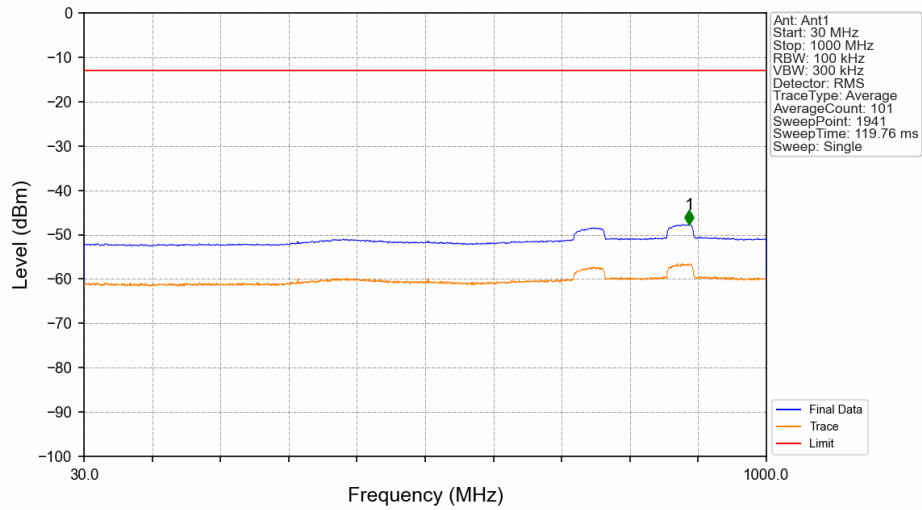
Band: 25 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
GMSK 0.2MHz	-0.3	1930.2	LCH	SISO	1	Refer To Test Graph		Pass
		1962.5	MCH	SISO	1	Refer To Test Graph		Pass
		1994.8	HCH	SISO	1	Refer To Test Graph		Pass
AWGN 5MHz	-0.3	1932.5	LCH	SISO	1	Refer To Test Graph		Pass
		1962.5	MCH	SISO	1	Refer To Test Graph		Pass
		1992.5	HCH	SISO	1	Refer To Test Graph		Pass
AWGN 100MHz	-0.3	1980	LCH	SISO	1	Refer To Test Graph		Pass
		1962.5	MCH	SISO	1	Refer To Test Graph		Pass
		1945	HCH	SISO	1	Refer To Test Graph		Pass

6.2 Test Graph

6.2.1 Band25

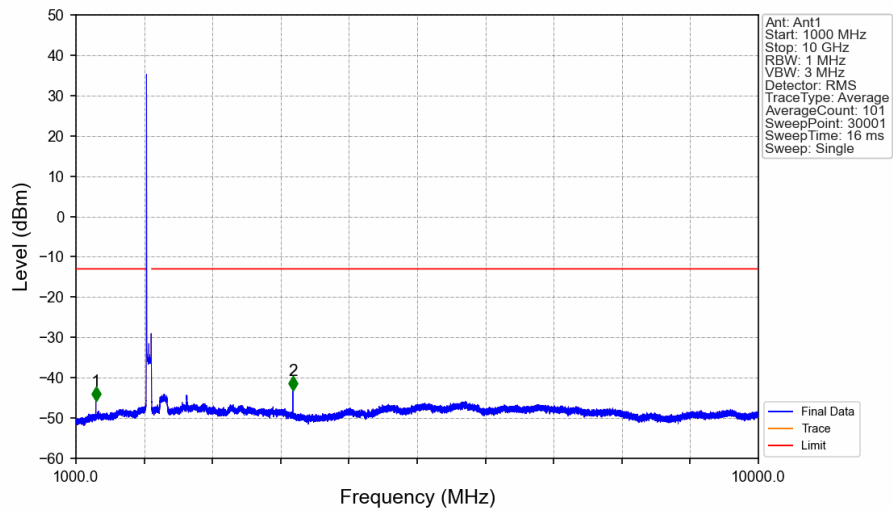


Band25 1930.2MHz GMSK SISO Ant1 NTN



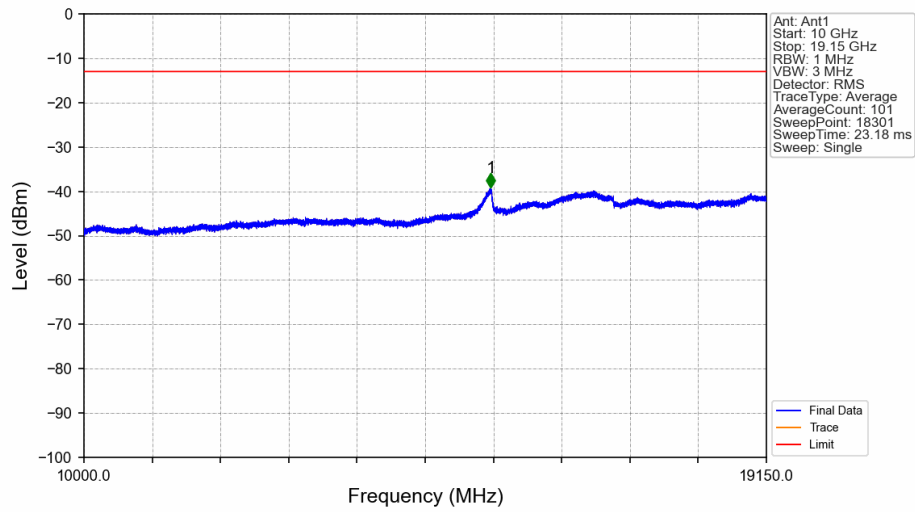
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	890.500	-47.69	-13	Pass

Band25 1930.2MHz GMSK SISO Ant1 NTN



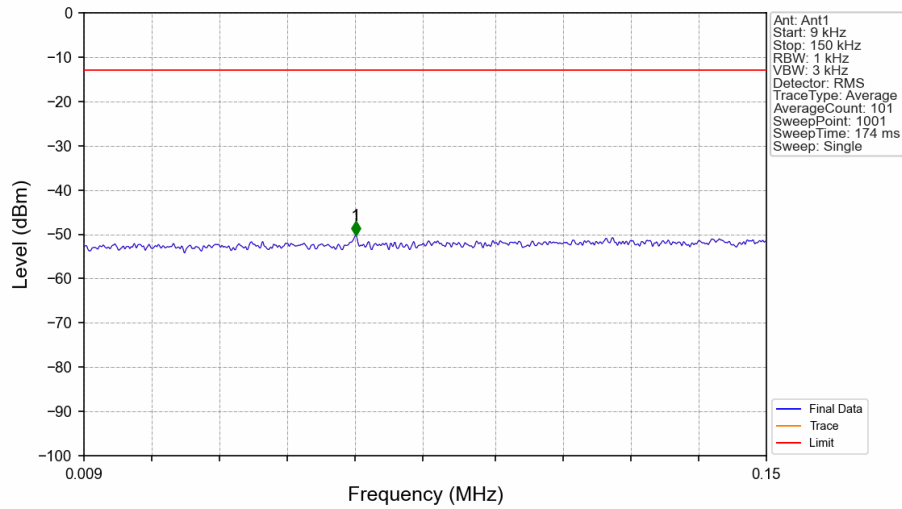
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1926	1	/	1	1261.900	-45.71	-13	Pass
1926	2001	1	/	/	/	/	/	/
2001	10000	1	/	2	3860.500	-43.11	-13	Pass

Band25_1930.2MHz_GMSK_SISO_Ant1_NTNV



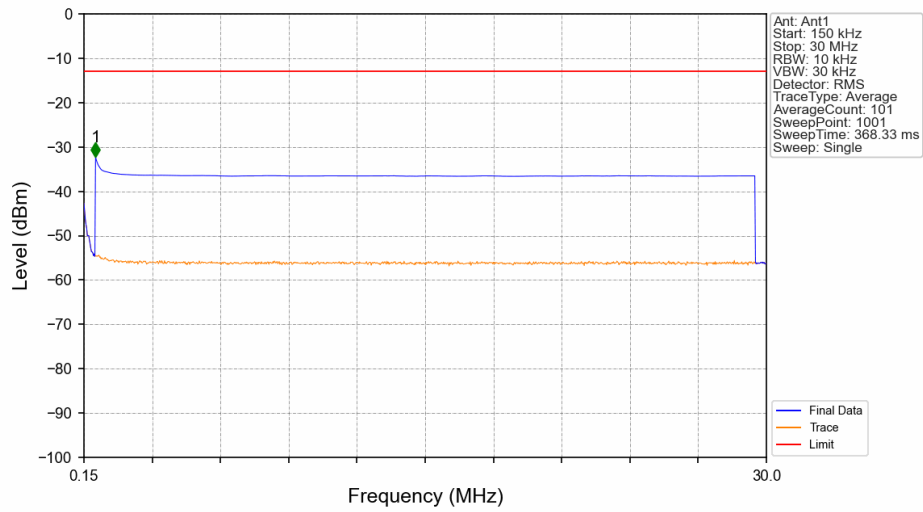
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	19150	1	/	1	15456.000	-39.10	-13	Pass

Band25_1962.5MHz_GMSK_SISO_Ant1_NTNV

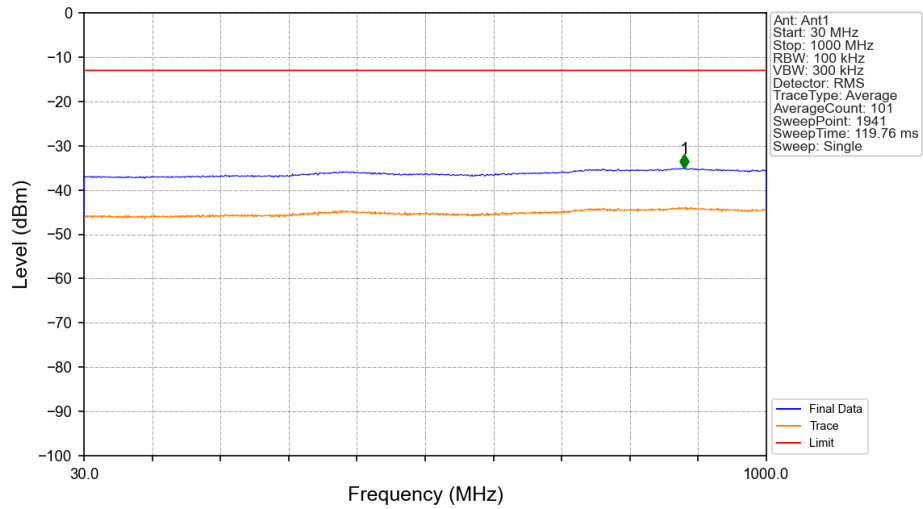


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.065	-50.25	-13	Pass

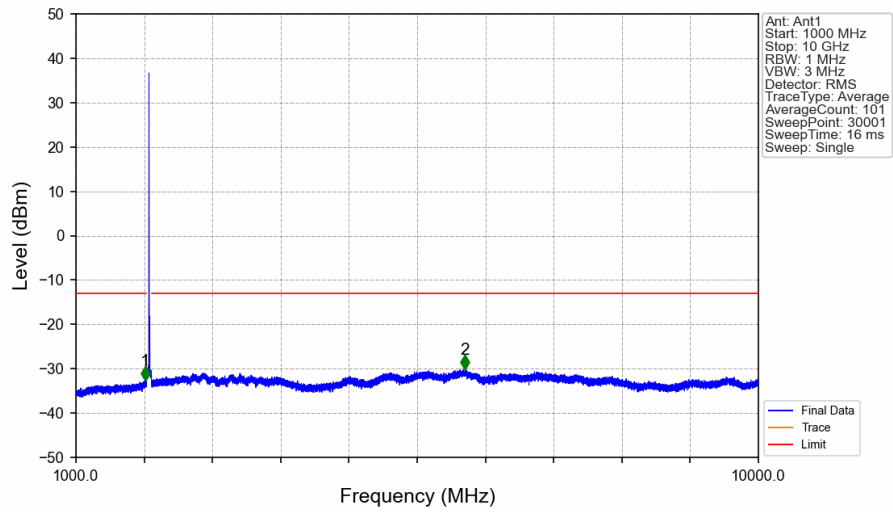
Band25_1962.5MHz_GMSK_SISO_Ant1_NTNV



Band25_1962.5MHz_GMSK_SISO_Ant1_NTNV

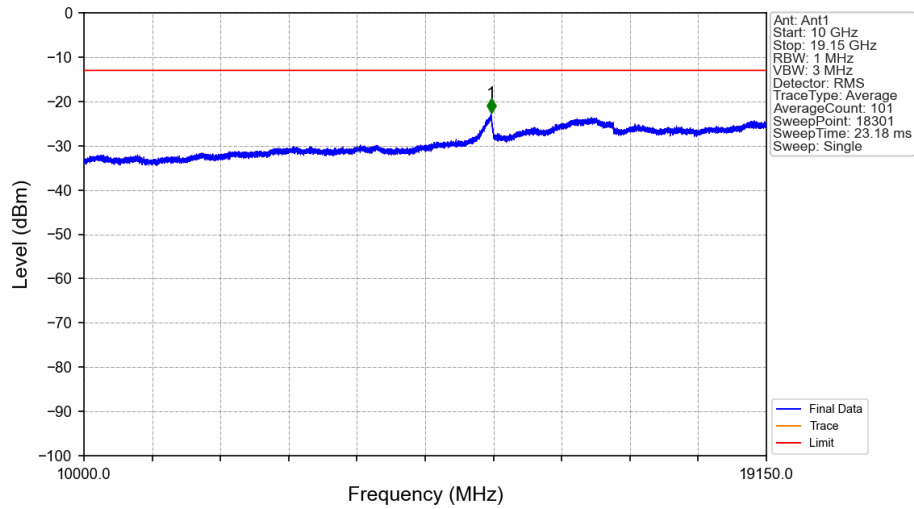


Band25_1962.5MHz_GMSK_SISO_Ant1_NTNV



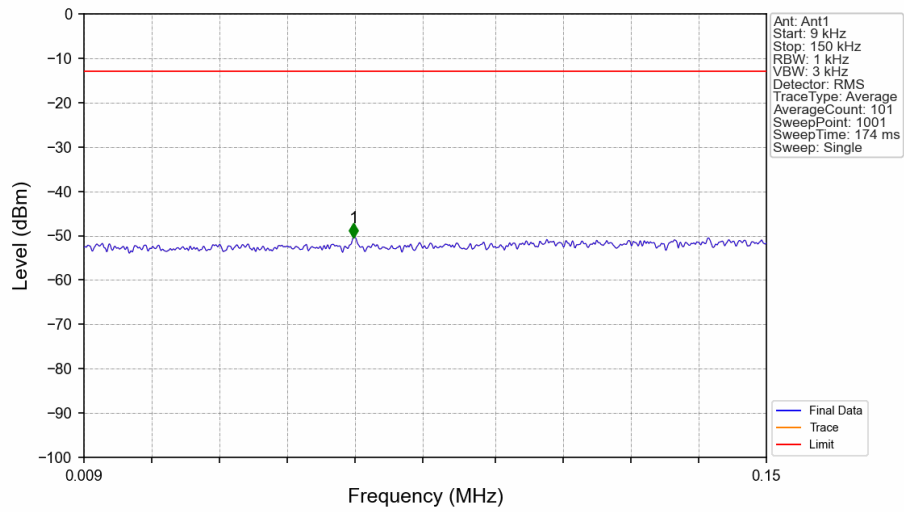
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1926	1	/	1	1911.400	-32.66	-13	Pass
1926	2001	1	/	/	/	/	/	/
2001	10000	1	/	2	6131.500	-30.14	-13	Pass

Band25_1962.5MHz_GMSK_SISO_Ant1_NTNV

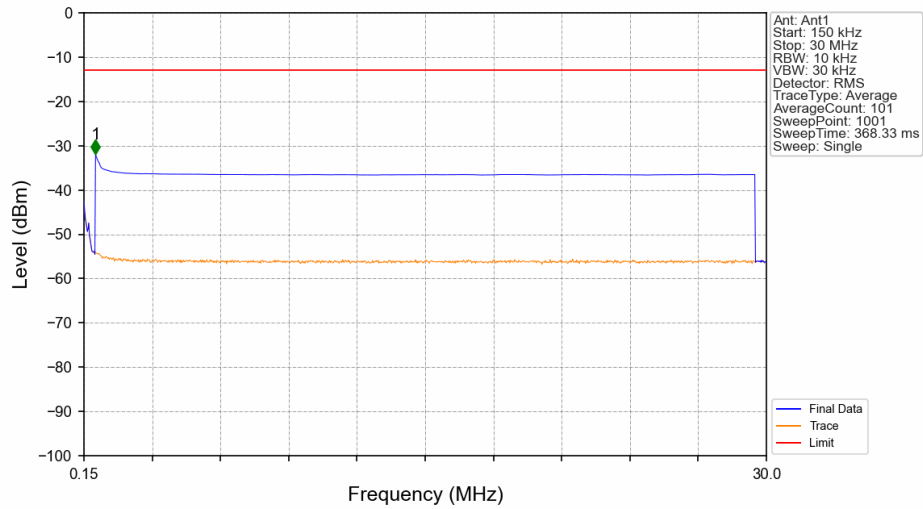


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	19150	1	/	1	15457.000	-22.61	-13	Pass

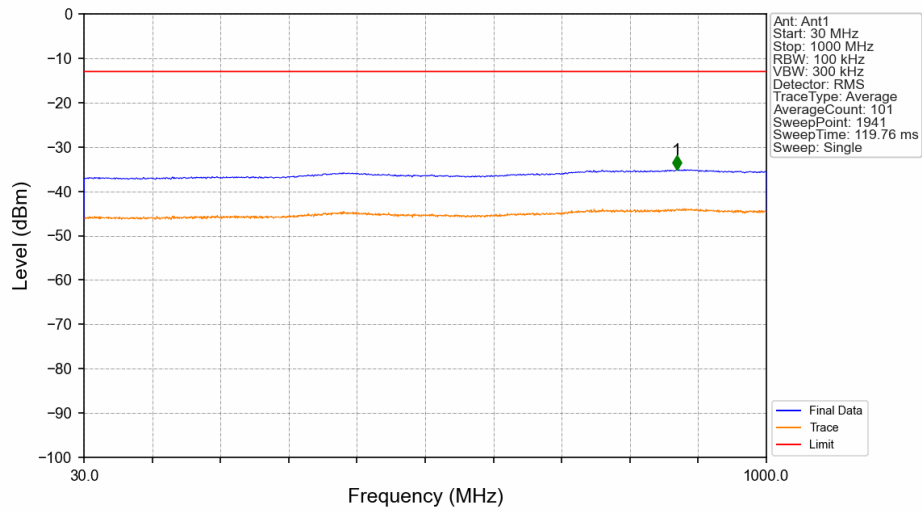
Band25_1994.8MHz_GMSK_SISO_Ant1_NTNV



Band25_1994.8MHz_GMSK_SISO_Ant1_NTNV

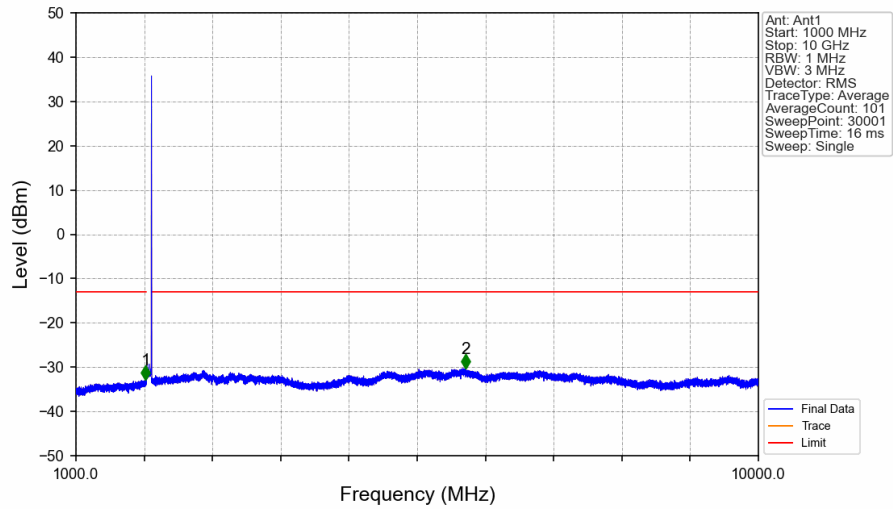


Band25_1994.8MHz_GMSK_SISO_Ant1_NTNV



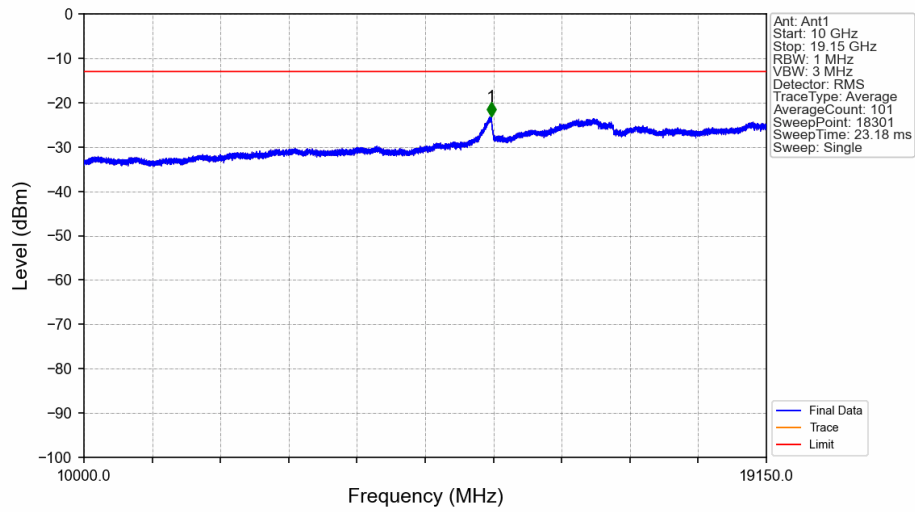
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	872.500	-35.09	-13	Pass

Band25_1994.8MHz_GMSK_SISO_Ant1_NTNV

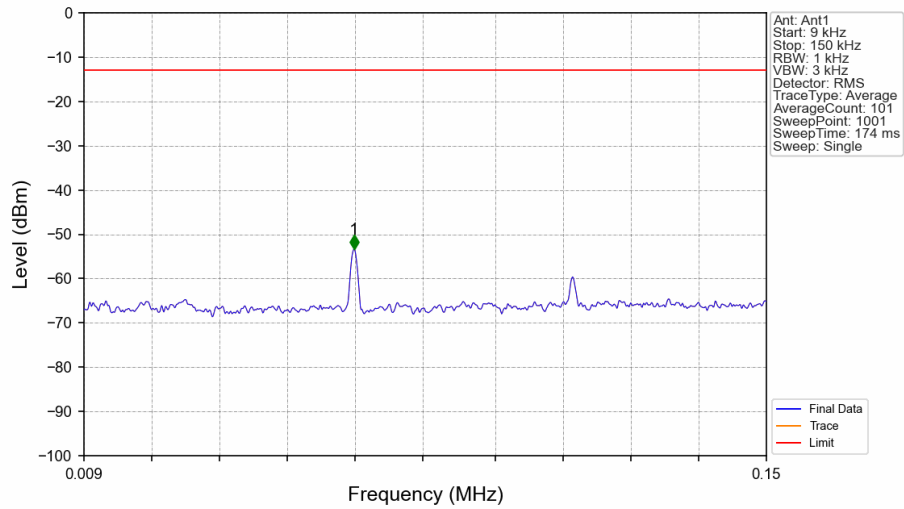


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1926	1	/	1	1919.800	-32.85	-13	Pass
1926	2001	1	/	/	/	/	/	/
2001	10000	1	/	2	6141.400	-30.23	-13	Pass

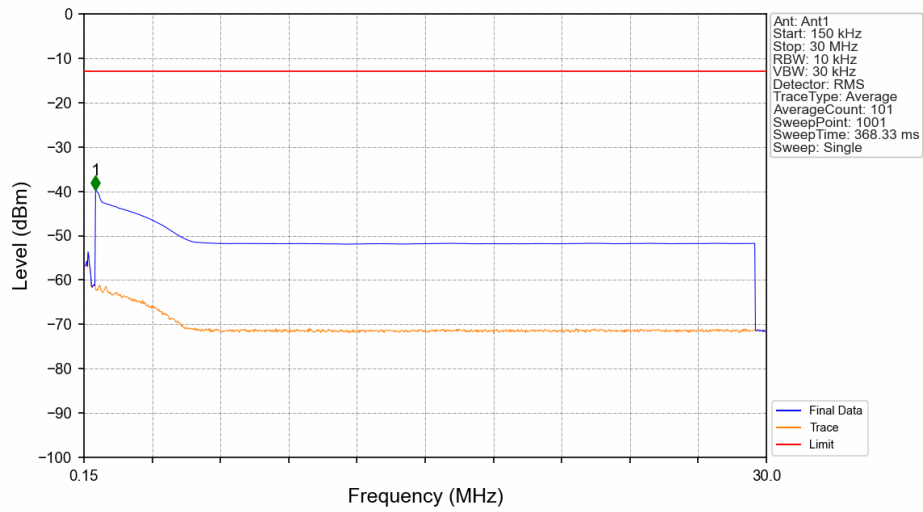
Band25_1994.8MHz_GMSK_SISO_Ant1_NTNV



Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV

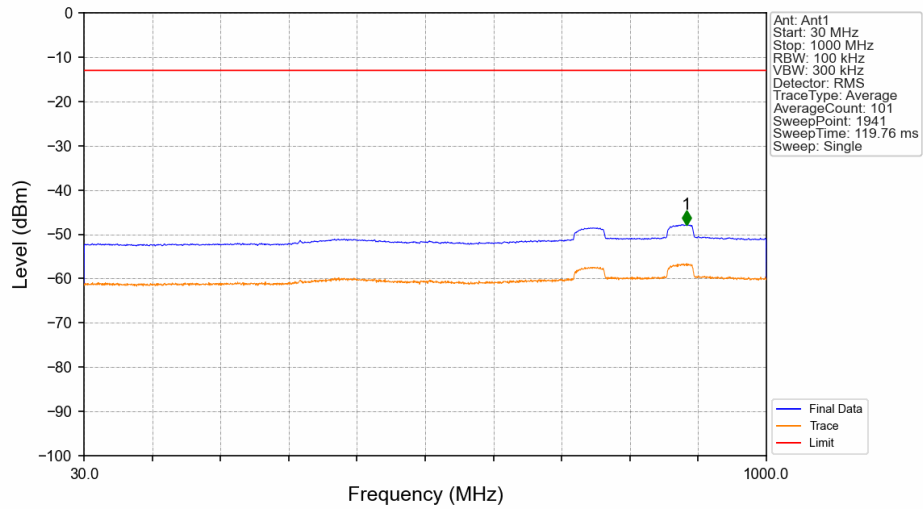


Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV



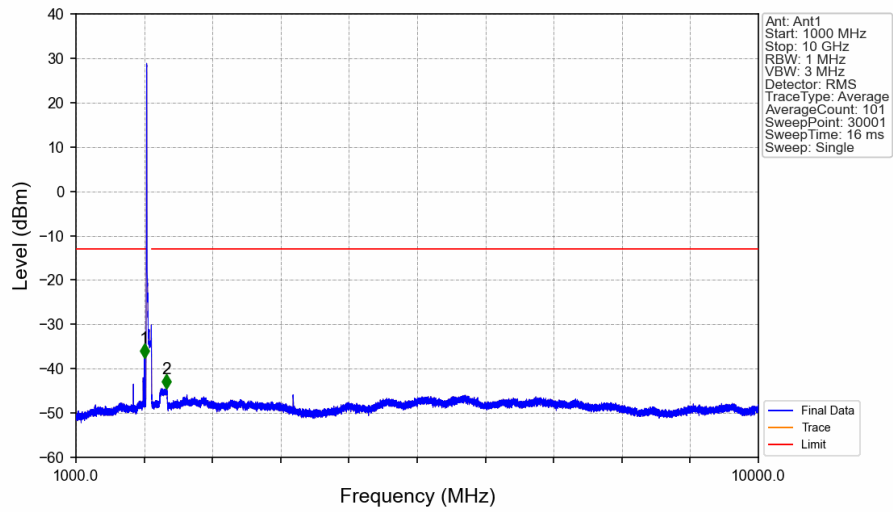
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	1	CHP	1	0.657	-39.66	-13	Pass

Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV



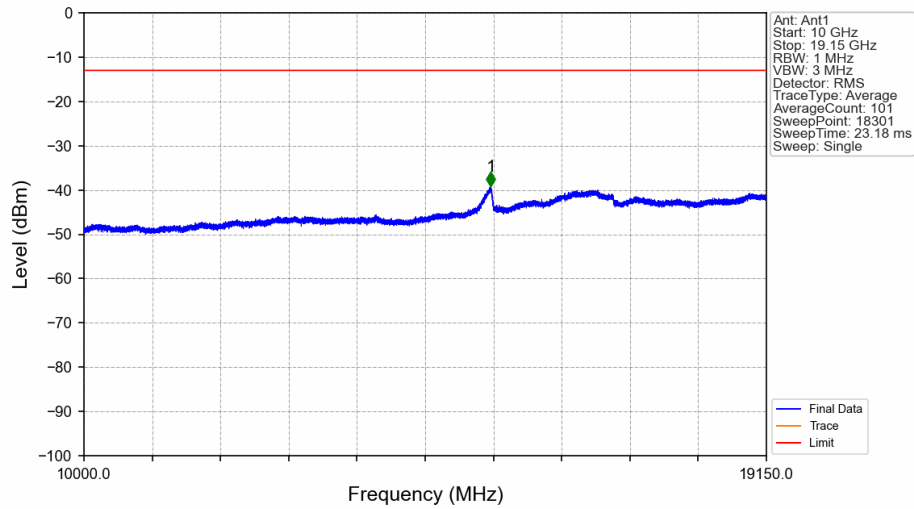
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	886.500	-47.76	-13	Pass

Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV



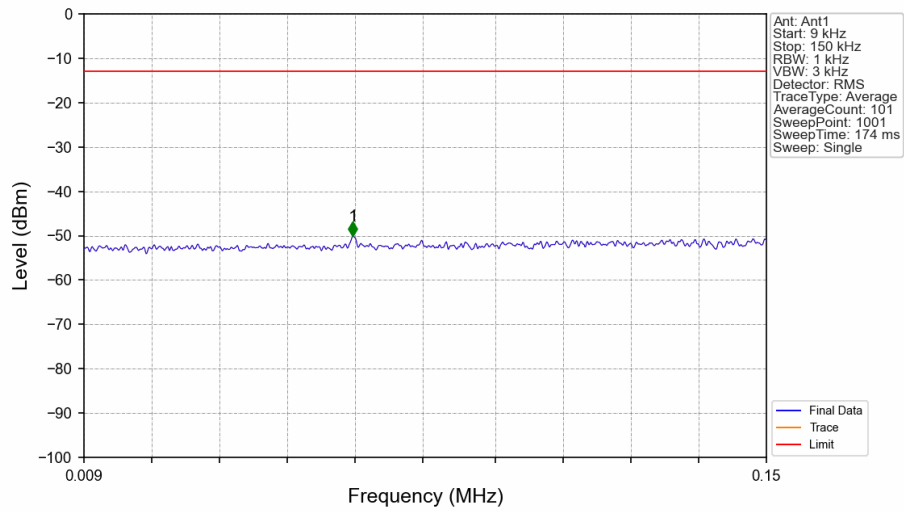
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1926	1	/	1	1903.900	-37.56	-13	Pass
1926	2001	1	/	/	/	/	/	/
2001	10000	1	/	2	2193.700	-44.44	-13	Pass

Band25_1932.5MHz_AWGN_SISO_Ant1_NTNV



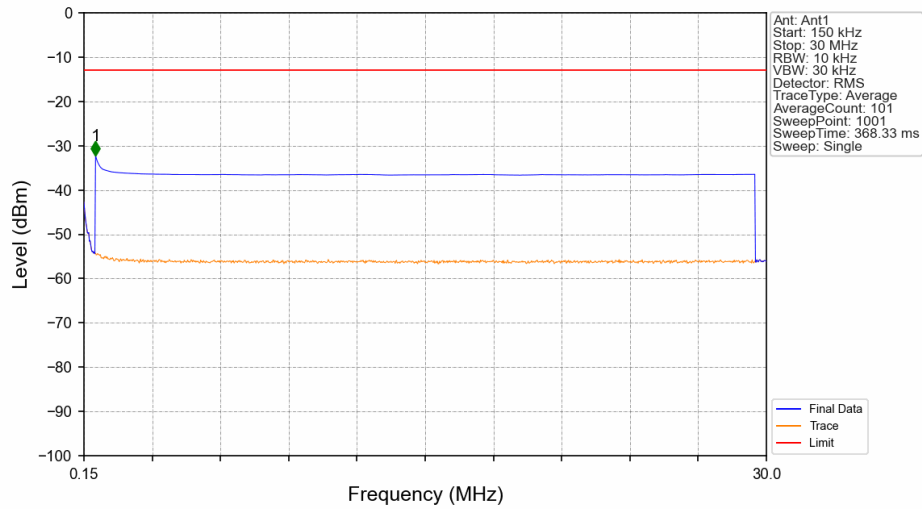
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	19150	1	/	1	15456.000	-39.19	-13	Pass

Band25_1962.5MHz_AWGN_SISO_Ant1_NTNV



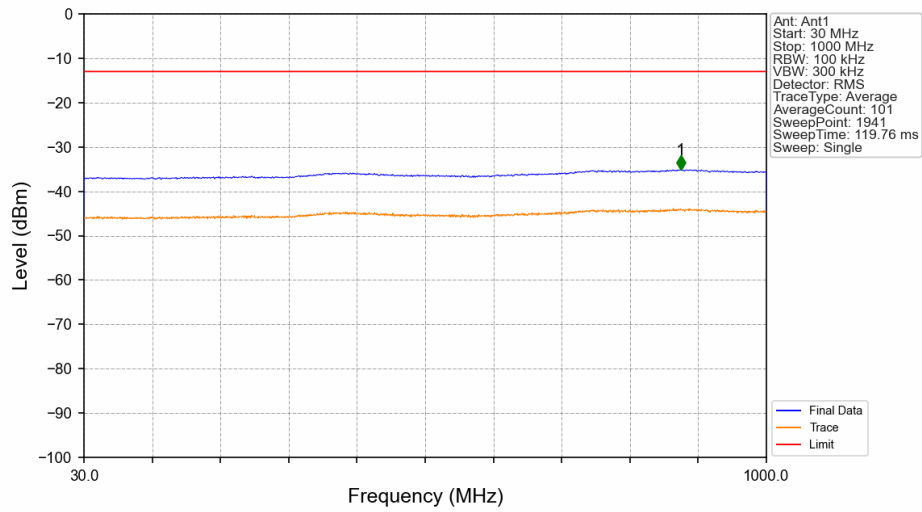
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.065	-50.09	-13	Pass

Band25_1962.5MHz_AWGN_SISO_Ant1_NTNV

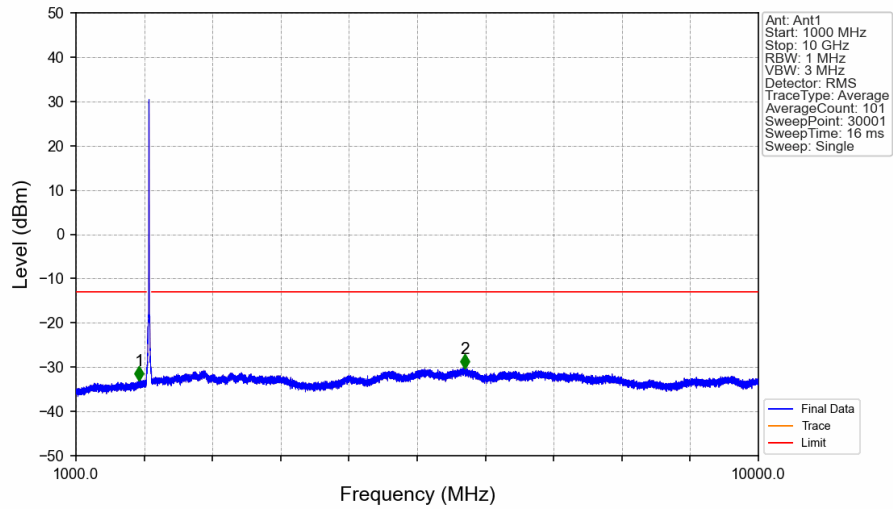


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	1	CHP	1	0.657	-32.14	-13	Pass

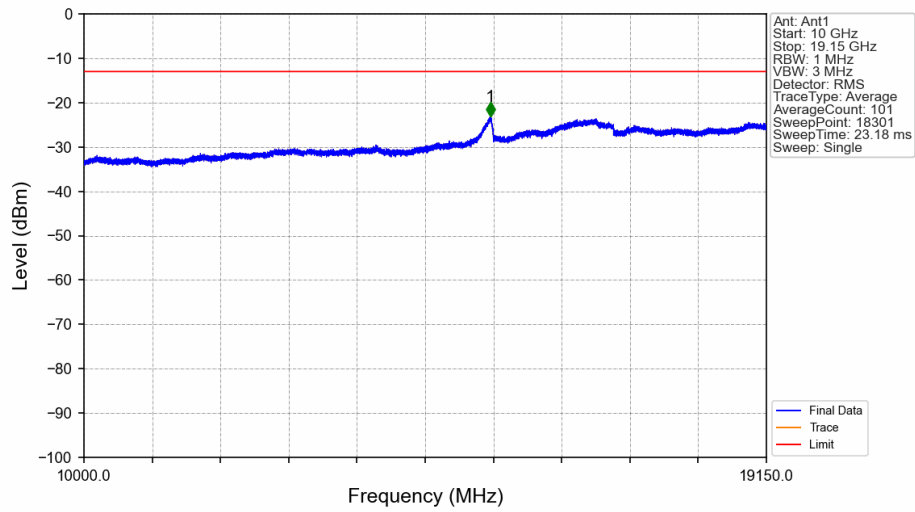
Band25_1962.5MHz_AWGN_SISO_Ant1_NTNV



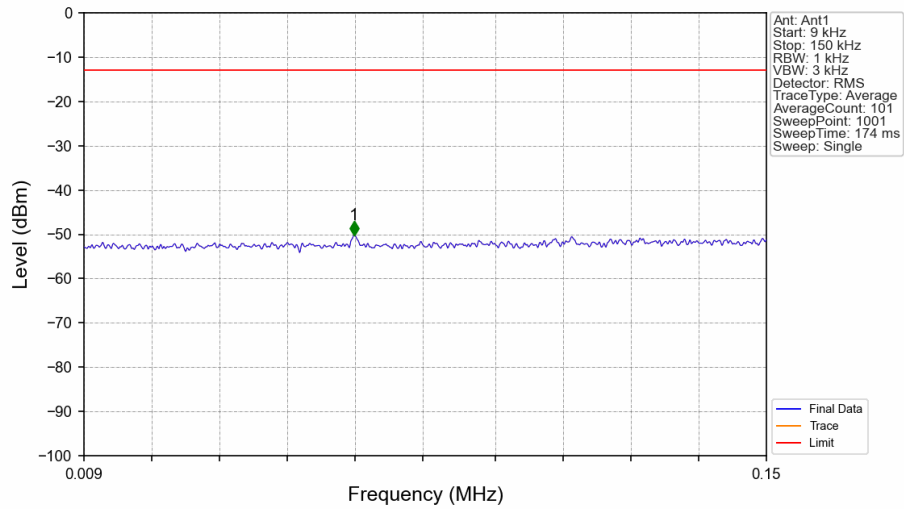
Band25_1962.5MHz_AWGN_SISO_Ant1_NTNV



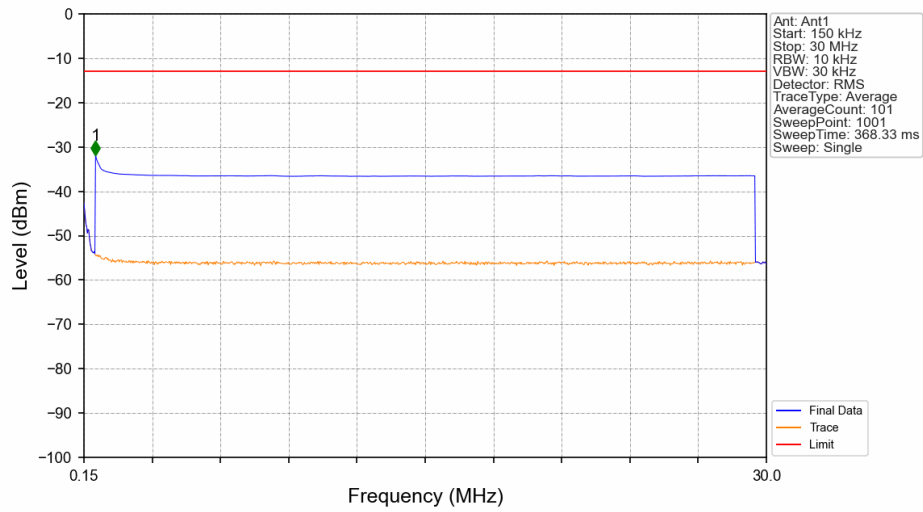
Band25_1962.5MHz_AWGN_SISO_Ant1_NTNV



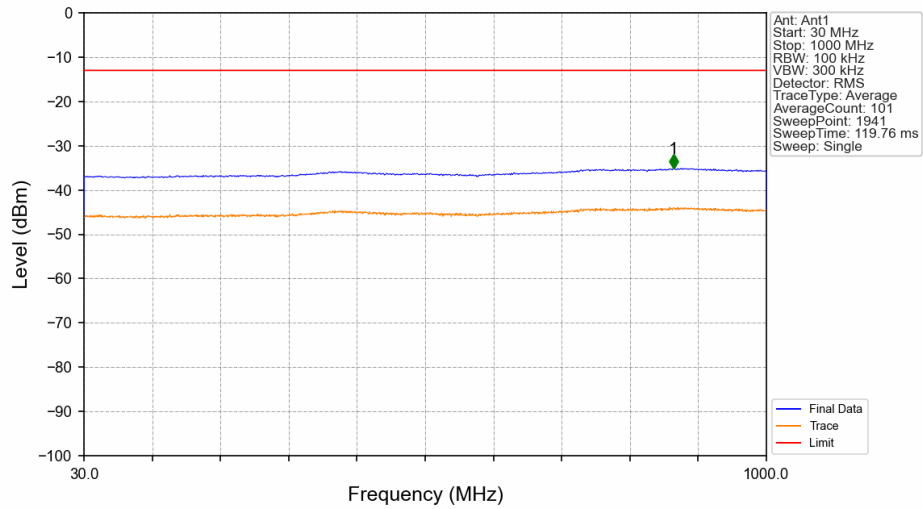
Band25_1992.5MHz_AWGN_SISO_Ant1_NTNV



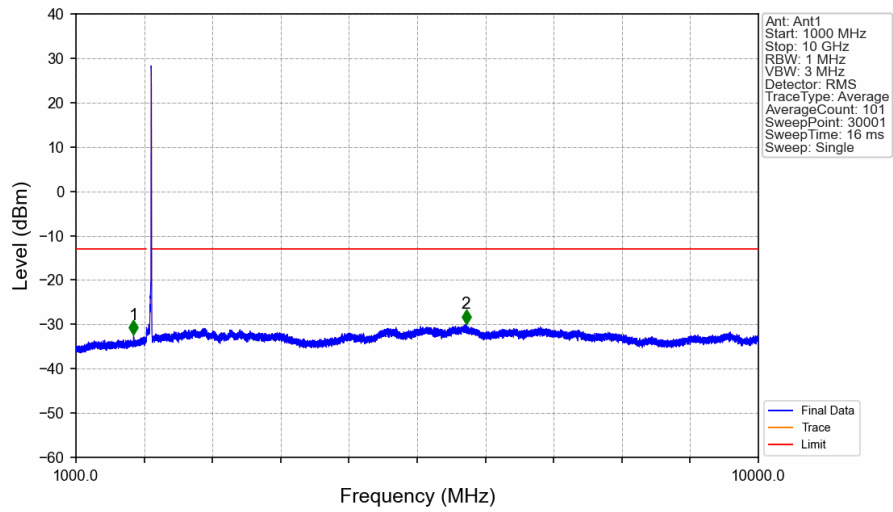
Band25_1992.5MHz_AWGN_SISO_Ant1_NTNV



Band25_1992.5MHz_AWGN_SISO_Ant1_NTNV

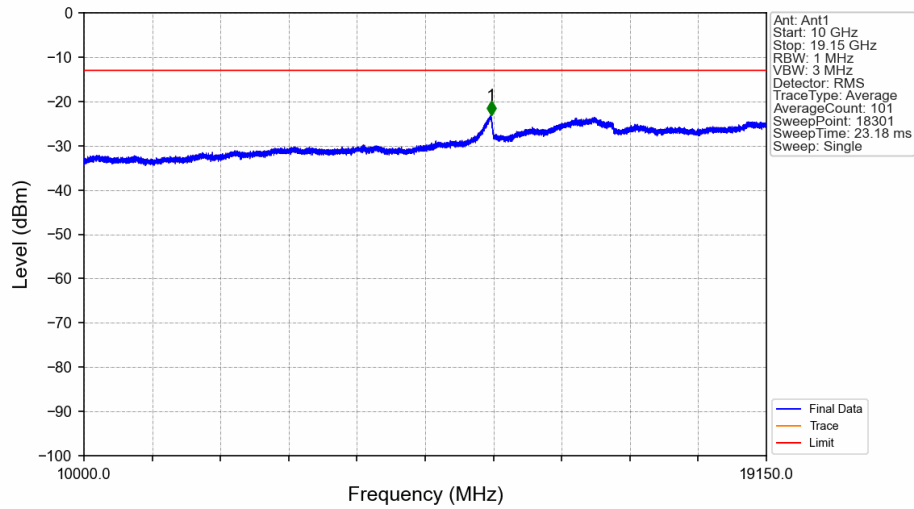


Band25_1992.5MHz_AWGN_SISO_Ant1_NTNV



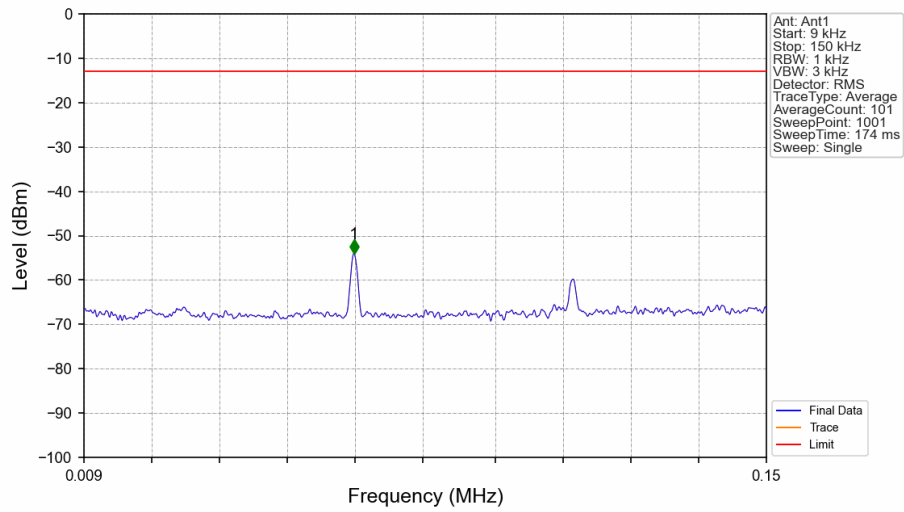
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1926	1	/	1	1759.900	-32.25	-13	Pass
1926	2001	1	/	/	/	/	/	/
2001	10000	1	/	2	6143.800	-29.80	-13	Pass

Band25_1992.5MHz_AWGN_SISO_Ant1_NTNV

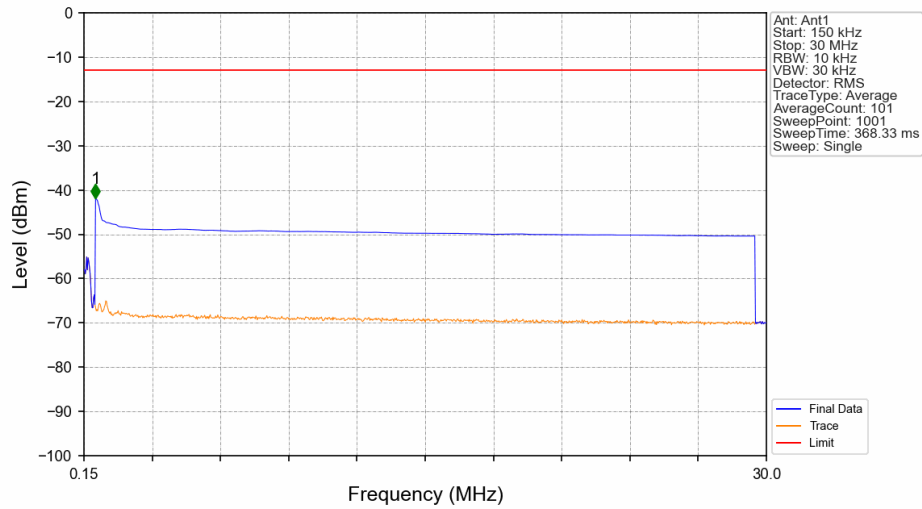


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	19150	1	/	1	15457.000	-23.11	-13	Pass

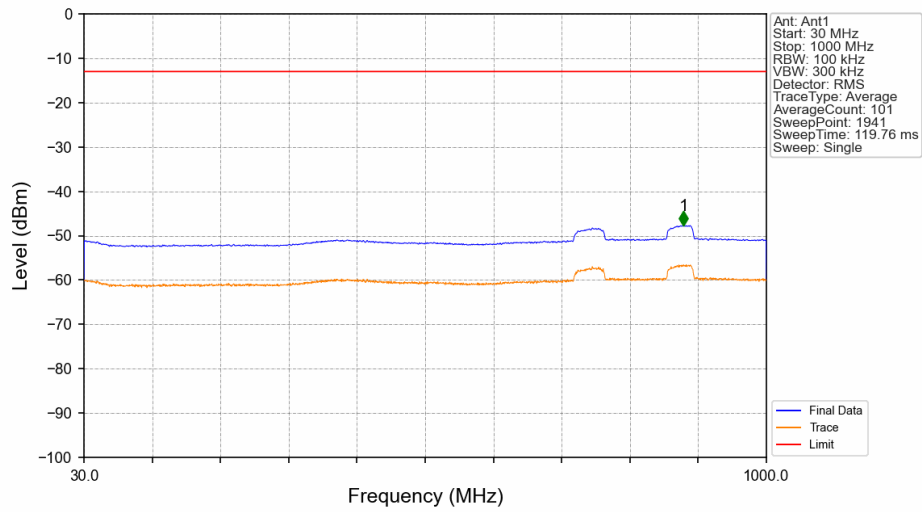
Band25_1980MHz_Broad100MHz_SISO_Ant1_NTNV



Band25_1980MHz_Broad100MHz_SISO_Ant1_NTNV

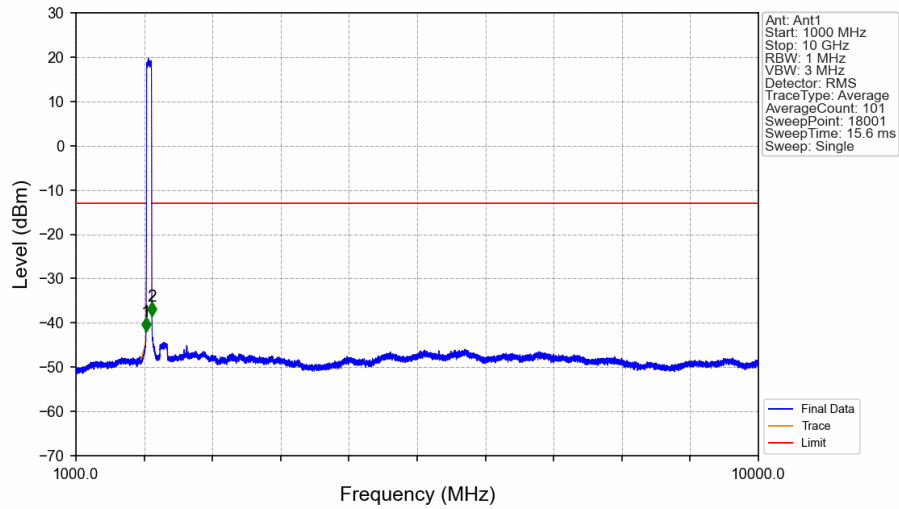


Band25_1980MHz_Broad100MHz_SISO_Ant1_NTNV



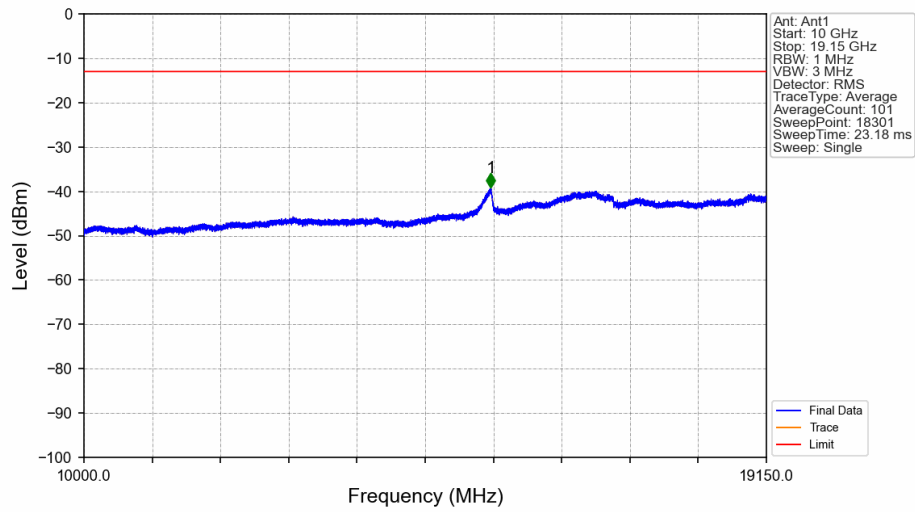
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	882.000	-47.72	-13	Pass

Band25_1980MHz_Broad100MHz_SISO_Ant1_NTNV

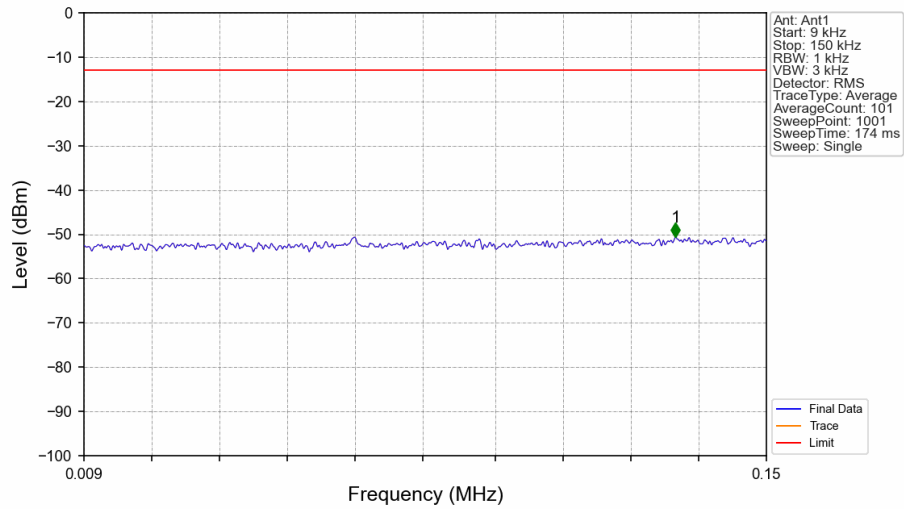


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1926	1	/	1	1923.500	-41.87	-13	Pass
1926	2001	1	/	/	/	/	/	/
2001	10000	1	/	2	2001.500	-38.37	-13	Pass

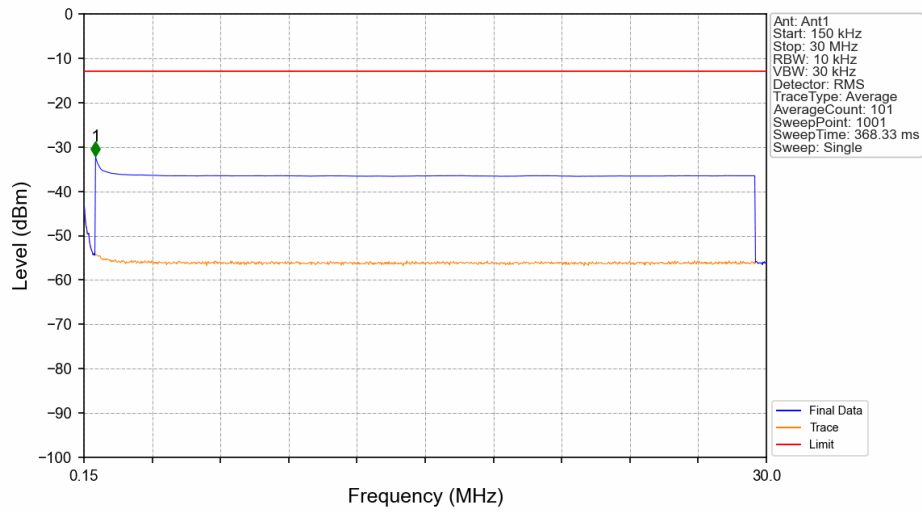
Band25_1980MHz_Broad100MHz_SISO_Ant1_NTNV



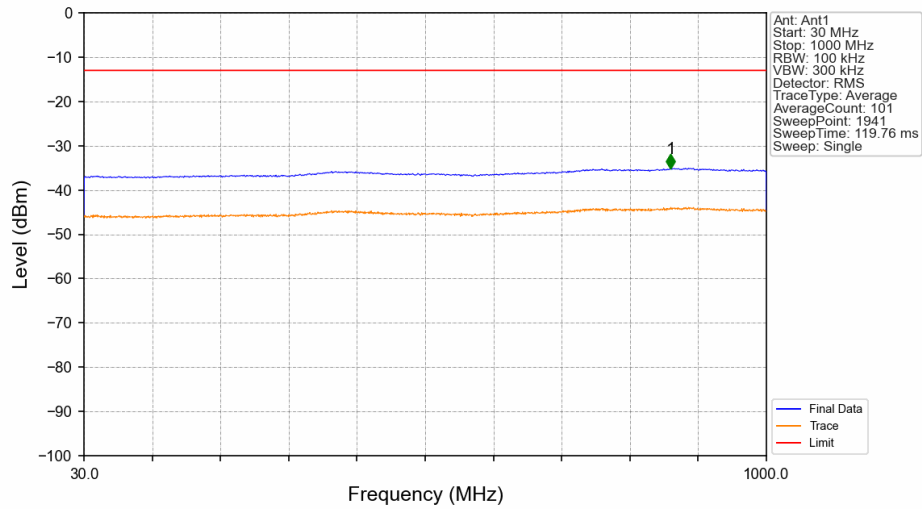
Band25_1962.5MHz_Broad100MHz_SISO_Ant1_NTNV



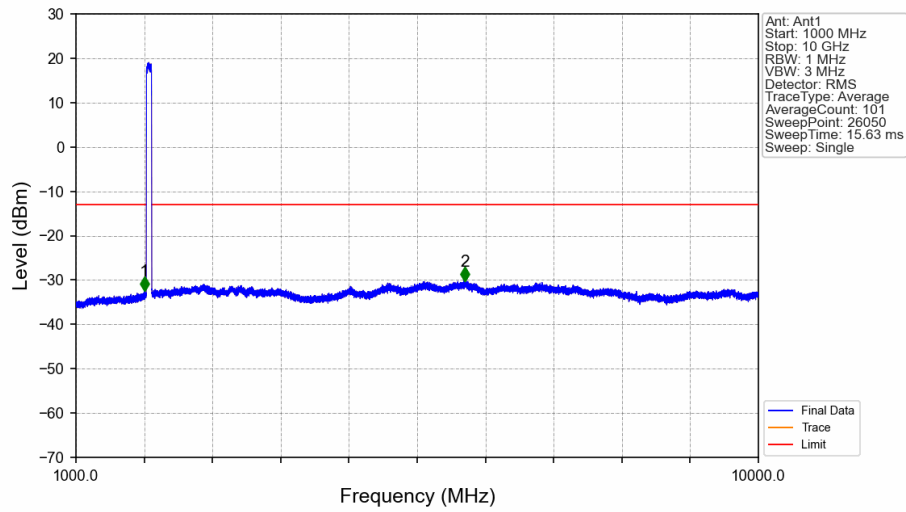
Band25_1962.5MHz_Broad100MHz_SISO_Ant1_NTNV



Band25_1962.5MHz_Broad100MHz_SISO_Ant1_NTNV

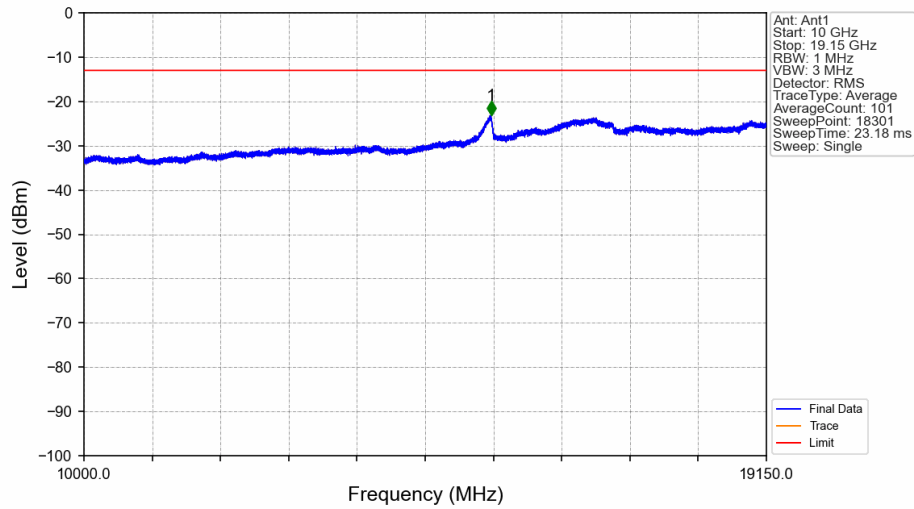


Band25_1962.5MHz_Broad100MHz_SISO_Ant1_NTNV



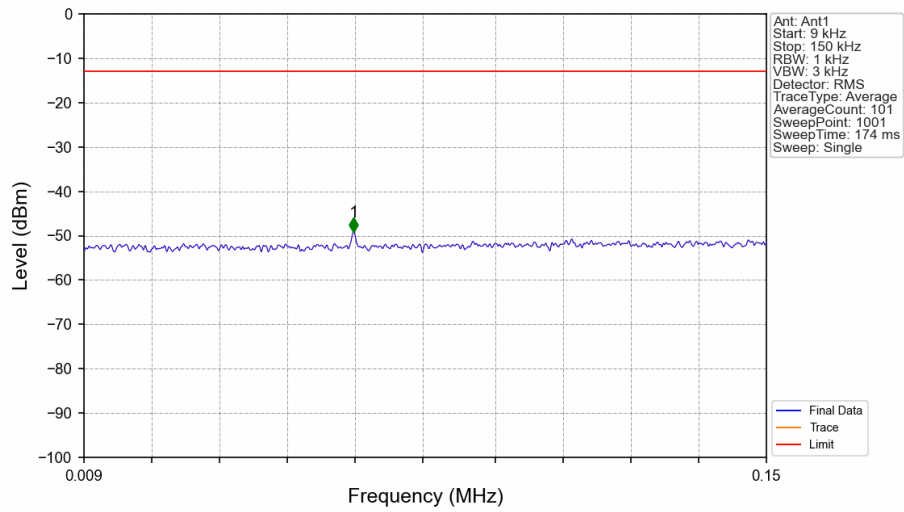
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1926	1	/	1	1902.799	-32.51	-13	Pass
1926	2001	1	/	/	/	/	/	/
2001	10000	1	/	2	6131.752	-30.23	-13	Pass

Band25_1962.5MHz_Broad100MHz_SISO_Ant1_NTNV

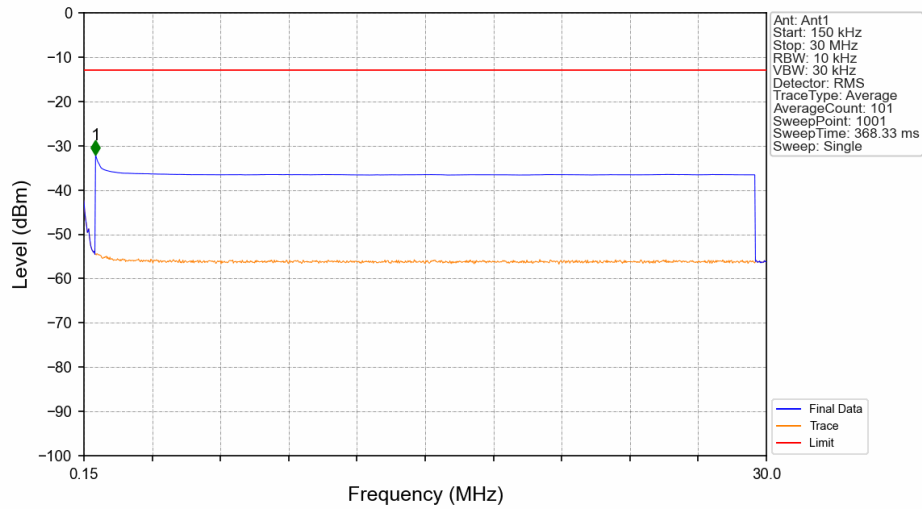


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	19150	1	/	1	15458.500	-23.16	-13	Pass

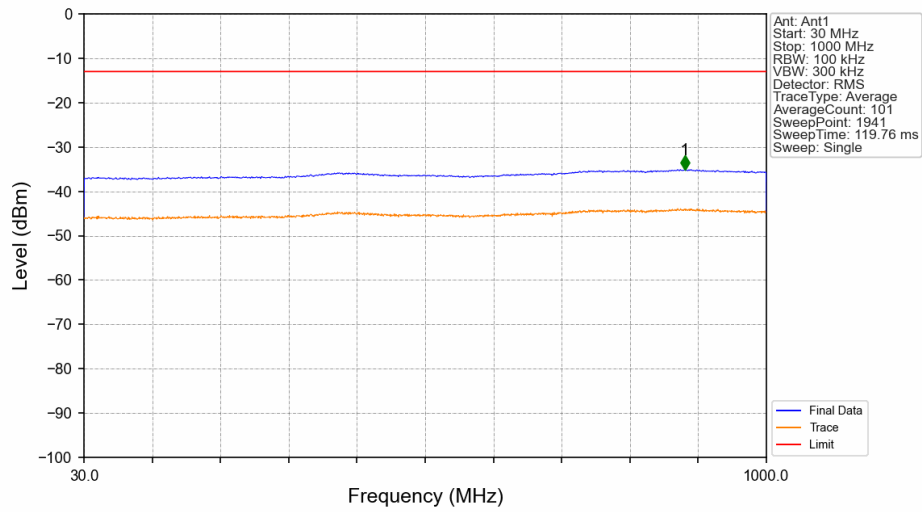
Band25_1945MHz_Broad100MHz_SISO_Ant1_NTNV



Band25_1945MHz_Broad100MHz_SISO_Ant1_NTNV

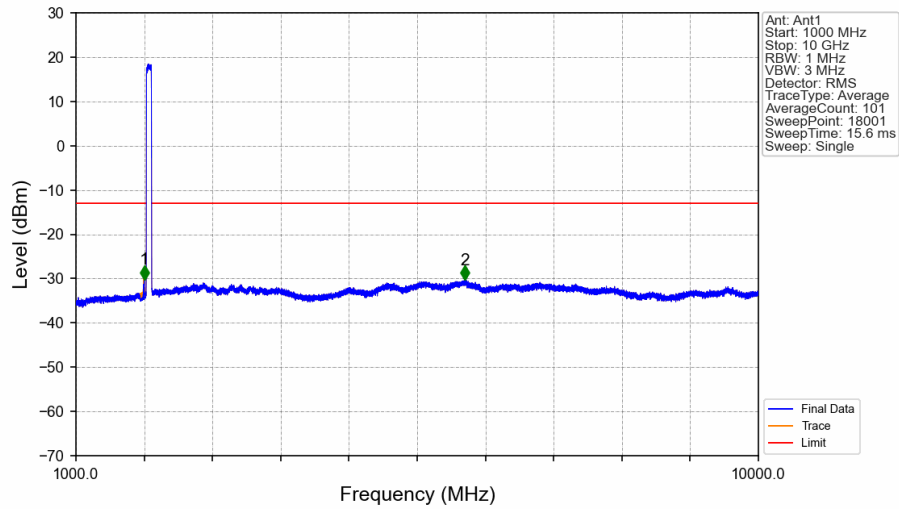


Band25_1945MHz_Broad100MHz_SISO_Ant1_NTNV



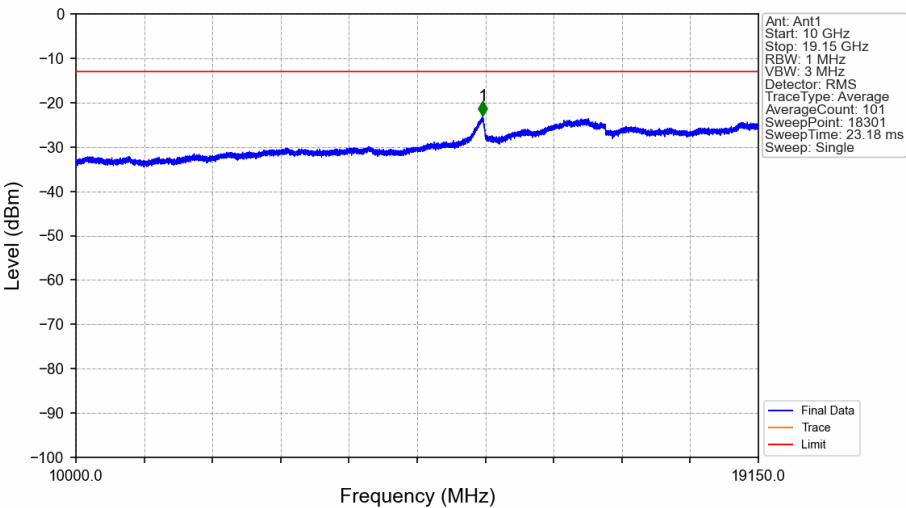
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	884.000	-35.08	-13	Pass

Band25_1945MHz_Broad100MHz_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1926	1	/	1	1901.000	-30.15	-13	Pass
1926	2001	1	/	/	/	/	/	/
2001	10000	1	/	2	6128.500	-30.18	-13	Pass

Band25_1945MHz_Broad100MHz_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	19150	1	/	1	15456.000	-22.95	-13	Pass

7. Frequency stability measurements

7.1 Test Result

7.1.1 Band25_Ant1

Band: 25 / NTNV							
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict
Type	Level (dBm)	Frequency (MHz)					
CW	-0.3	1930.1	20	102	9	0.0047	Pass
				120	12	0.0062	Pass
				138	11	0.0057	Pass
			-40	120	8	0.0041	Pass
			-30	120	9	0.0047	Pass
			-20	120	10	0.0052	Pass
			-10	120	13	0.0067	Pass
			0	120	12	0.0062	Pass
			10	120	10	0.0052	Pass
			30	120	11	0.0057	Pass
			40	120	11	0.0057	Pass
			50	120	12	0.0062	Pass
			55	120	10	0.0052	Pass
		1962.5	20	102	14	0.0071	Pass
				120	12	0.0061	Pass
				138	8	0.0041	Pass
			-40	120	9	0.0046	Pass
			-30	120	7	0.0036	Pass
			-20	120	12	0.0061	Pass
			-10	120	13	0.0066	Pass
			0	120	12	0.0061	Pass
			10	120	11	0.0056	Pass
			30	120	8	0.0041	Pass
			40	120	11	0.0056	Pass
			50	120	9	0.0046	Pass
			55	120	8	0.0041	Pass
		1994.9	20	102	13	0.0067	Pass
				120	12	0.0062	Pass
				138	10	0.0051	Pass
			-40	120	8	0.0041	Pass
			-30	120	8	0.0041	Pass
			-20	120	7	0.0034	Pass
			-10	120	6	0.0031	Pass
			0	120	7	0.0036	Pass
			10	120	12	0.0062	Pass
			30	120	11	0.0056	Pass
			40	120	10	0.0051	Pass
			50	120	10	0.0051	Pass
			55	120	13	0.0067	Pass

8. Radiated Spurious Emissions

8.1 Band25_Ant1

8.1.1 Test Result

GMSK 1930.2MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
105.704	Horizontal	-66.79	-13	-53.79	Pass
371.652	Horizontal	-69.26	-13	-56.26	Pass
816.195	Horizontal	-63.48	-13	-50.48	Pass
2614.300	Horizontal	-67.90	-13	-54.90	Pass
4313.600	Horizontal	-65.45	-13	-52.45	Pass
7107.230	Horizontal	-67.15	-13	-54.15	Pass
114.034	Vertical	-68.82	-13	-55.82	Pass
401.302	Vertical	-64.94	-13	-51.94	Pass
815.695	Vertical	-63.85	-13	-50.85	Pass
2606.500	Vertical	-67.57	-13	-54.57	Pass
4282.800	Vertical	-62.39	-13	-49.39	Pass
5340.800	Vertical	-63.05	-13	-50.05	Pass

GMSK 1962.5MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
116.884	Horizontal	-65.76	-13	-52.76	Pass
408.222	Horizontal	-67.52	-13	-54.52	Pass
782.965	Horizontal	-66.90	-13	-53.90	Pass
1868.700	Horizontal	-68.21	-13	-55.21	Pass
4196.600	Horizontal	-62.63	-13	-49.63	Pass
5252.560	Horizontal	-67.85	-13	-54.85	Pass
88.294	Vertical	-67.23	-13	-54.23	Pass
396.382	Vertical	-65.41	-13	-52.41	Pass
774.135	Vertical	-64.12	-13	-51.12	Pass
1900.600	Vertical	-60.58	-13	-47.58	Pass
4314.200	Vertical	-59.22	-13	-46.22	Pass
4815.060	Vertical	-62.33	-13	-49.33	Pass

GMSK 1994.8MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
76.634	Horizontal	-68.49	-13	-55.49	Pass
383.372	Horizontal	-66.56	-13	-53.56	Pass
780.155	Horizontal	-64.68	-13	-51.68	Pass
1821.800	Horizontal	-60.51	-13	-47.51	Pass
4412.600	Horizontal	-65.63	-13	-52.63	Pass
5471.790	Horizontal	-67.82	-13	-54.82	Pass
81.434	Vertical	-62.40	-13	-49.40	Pass
405.942	Vertical	-66.74	-13	-53.74	Pass
785.805	Vertical	-63.64	-13	-50.64	Pass
2299.000	Vertical	-65.56	-13	-52.56	Pass
4216.600	Vertical	-63.67	-13	-50.67	Pass
7240.350	Vertical	-62.46	-13	-49.46	Pass

AWGN 1932.5MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
110.384	Horizontal	-65.32	-13	-52.32	Pass
373.462	Horizontal	-69.62	-13	-56.62	Pass
808.825	Horizontal	-64.15	-13	-51.15	Pass
2130.000	Horizontal	-66.53	-13	-53.53	Pass
3660.900	Horizontal	-60.82	-13	-47.82	Pass
7119.560	Horizontal	-63.76	-13	-50.76	Pass
124.994	Vertical	-66.38	-13	-53.38	Pass
375.352	Vertical	-71.01	-13	-58.01	Pass
801.475	Vertical	-63.10	-13	-50.10	Pass
2029.000	Vertical	-60.24	-13	-47.24	Pass
4404.500	Vertical	-58.79	-13	-45.79	Pass
6435.510	Vertical	-64.06	-13	-51.06	Pass

AWGN 1962.5MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
116.484	Horizontal	-62.98	-13	-49.98	Pass
376.532	Horizontal	-69.56	-13	-56.56	Pass
809.675	Horizontal	-64.41	-13	-51.41	Pass
2415.200	Horizontal	-63.69	-13	-50.69	Pass
3558.500	Horizontal	-63.11	-13	-50.11	Pass
5587.510	Horizontal	-69.66	-13	-56.66	Pass
106.844	Vertical	-64.53	-13	-51.53	Pass
369.852	Vertical	-71.44	-13	-58.44	Pass
795.335	Vertical	-66.59	-13	-53.59	Pass
2371.000	Vertical	-64.82	-13	-51.82	Pass
4263.200	Vertical	-60.49	-13	-47.49	Pass
5608.570	Vertical	-68.95	-13	-55.95	Pass

AWGN 1992.5MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
106.844	Horizontal	-64.53	-13	-51.53	Pass
369.852	Horizontal	-71.44	-13	-58.44	Pass
795.335	Horizontal	-66.59	-13	-53.59	Pass
2371.000	Horizontal	-64.82	-13	-51.82	Pass
4263.200	Horizontal	-60.49	-13	-47.49	Pass
5608.570	Horizontal	-68.95	-13	-55.95	Pass
123.334	Vertical	-64.37	-13	-51.37	Pass
404.122	Vertical	-65.09	-13	-52.09	Pass
809.085	Vertical	-65.74	-13	-52.74	Pass
2477.100	Vertical	-64.75	-13	-51.75	Pass
4438.800	Vertical	-59.54	-13	-46.54	Pass
5438.560	Vertical	-69.36	-13	-56.36	Pass

100M 1980MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
97.764	Horizontal	-67.95	-13	-54.95	Pass
371.092	Horizontal	-66.98	-13	-53.98	Pass
776.765	Horizontal	-69.85	-13	-56.85	Pass
2056.400	Horizontal	-66.35	-13	-53.35	Pass
4105.200	Horizontal	-65.50	-13	-52.50	Pass
4804.150	Horizontal	-64.97	-13	-51.97	Pass
95.214	Vertical	-65.70	-13	-52.70	Pass
374.852	Vertical	-68.67	-13	-55.67	Pass
820.845	Vertical	-69.87	-13	-56.87	Pass
1857.100	Vertical	-62.18	-13	-49.18	Pass
4296.600	Vertical	-64.94	-13	-51.94	Pass
5762.990	Vertical	-62.71	-13	-49.71	Pass

100M 1962.5MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
124.354	Horizontal	-66.81	-13	-53.81	Pass
375.512	Horizontal	-68.50	-13	-55.50	Pass
805.225	Horizontal	-66.97	-13	-53.97	Pass
2302.000	Horizontal	-67.67	-13	-54.67	Pass
3804.900	Horizontal	-60.82	-13	-47.82	Pass
6725.250	Horizontal	-63.19	-13	-50.19	Pass
116.514	Vertical	-63.87	-13	-50.87	Pass
392.962	Vertical	-65.65	-13	-52.65	Pass
816.105	Vertical	-69.93	-13	-56.93	Pass
2189.600	Vertical	-64.29	-13	-51.29	Pass
4147.600	Vertical	-59.76	-13	-46.76	Pass
5352.230	Vertical	-65.67	-13	-52.67	Pass

100M 1945MHz					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
122.874	Horizontal	-63.56	-13	-50.56	Pass
384.682	Horizontal	-65.34	-13	-52.34	Pass
806.695	Horizontal	-67.35	-13	-54.35	Pass
1943.500	Horizontal	-66.30	-13	-53.30	Pass
3694.800	Horizontal	-64.06	-13	-51.06	Pass
7207.970	Horizontal	-67.54	-13	-54.54	Pass
125.804	Vertical	-64.03	-13	-51.03	Pass
391.032	Vertical	-65.97	-13	-52.97	Pass
805.705	Vertical	-70.17	-13	-57.17	Pass
1857.600	Vertical	-66.24	-13	-53.24	Pass
4307.300	Vertical	-63.81	-13	-50.81	Pass
5038.540	Vertical	-67.73	-13	-54.73	Pass