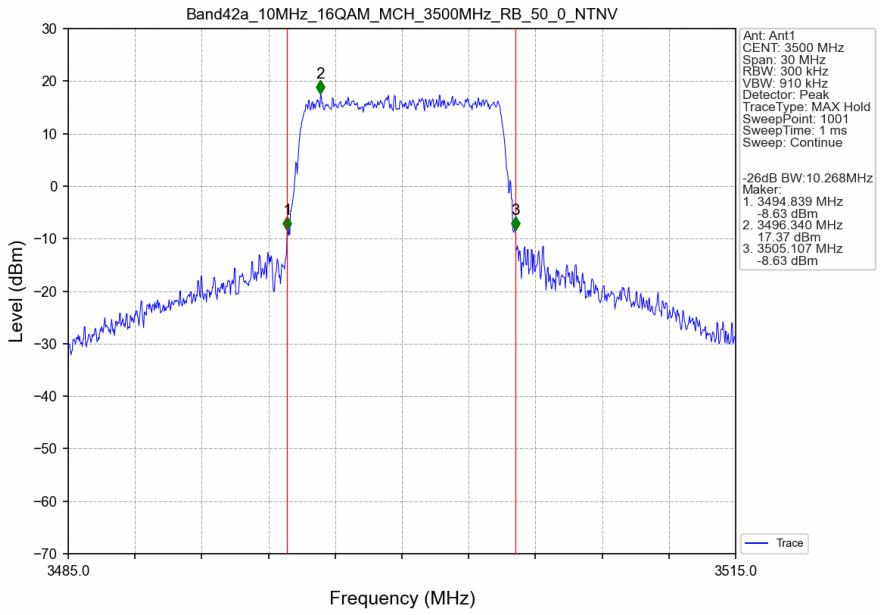
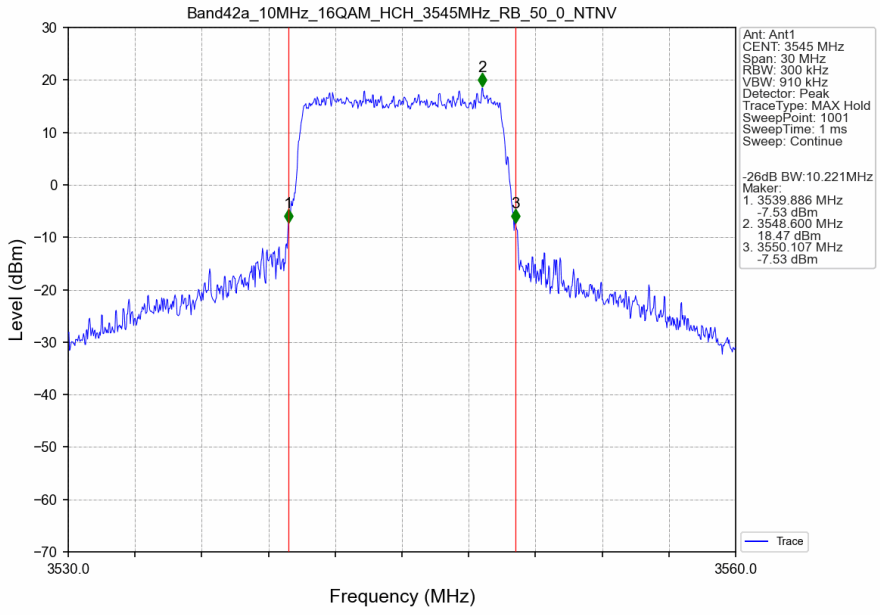
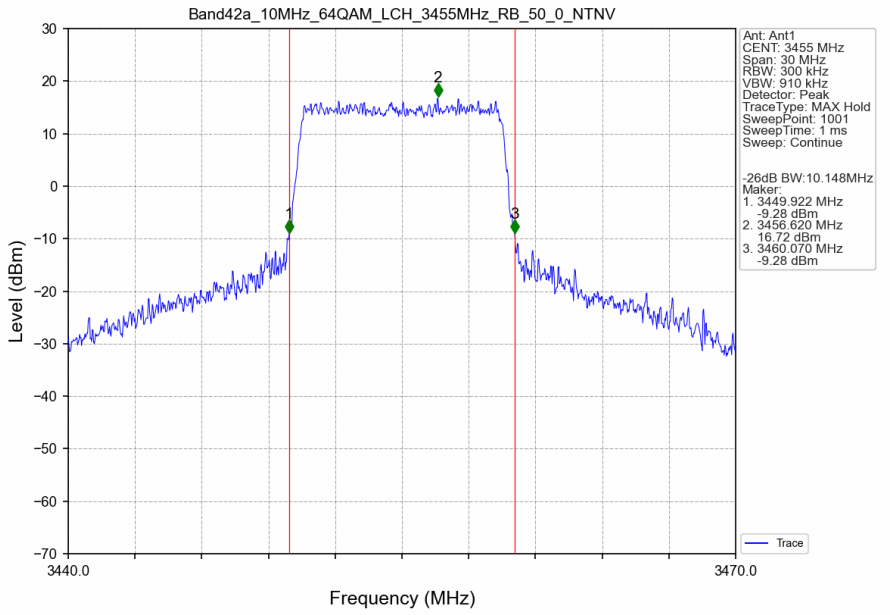
Band42a_10MHz_16QAM_MCH_3500MHz_RB_50_0_NTNV



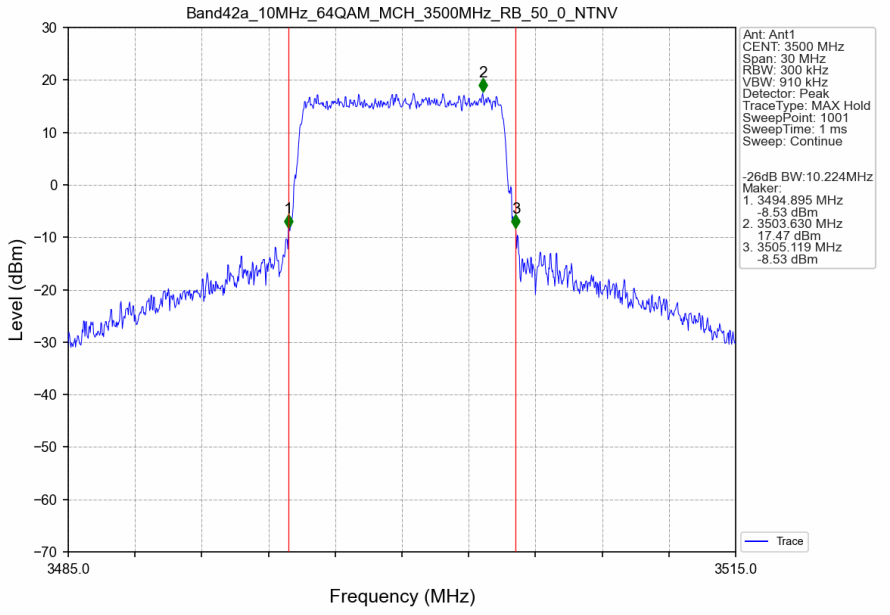
Band42a_10MHz_16QAM_HCH_3545MHz_RB_50_0_NTNV



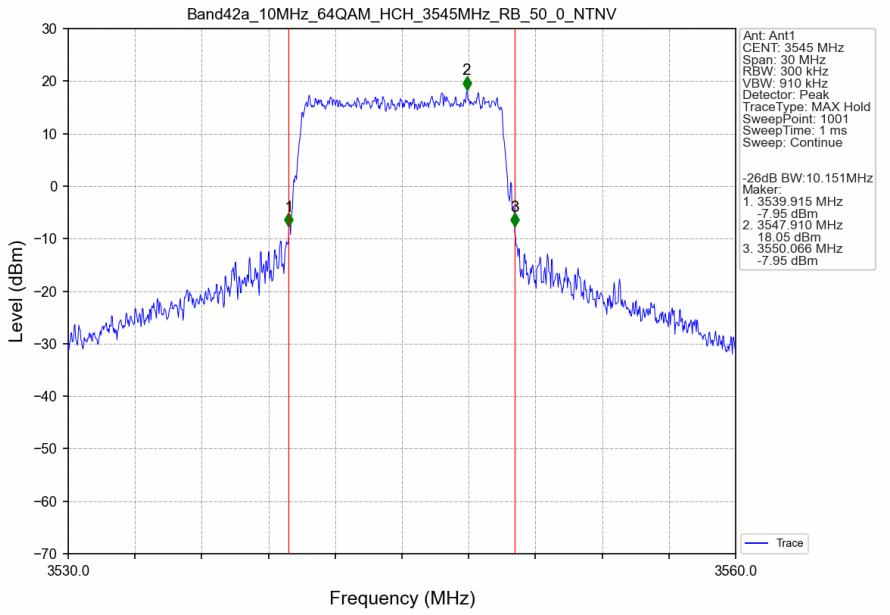
Band42a_10MHz_64QAM_LCH_3455MHz_RB_50_0_NTNV



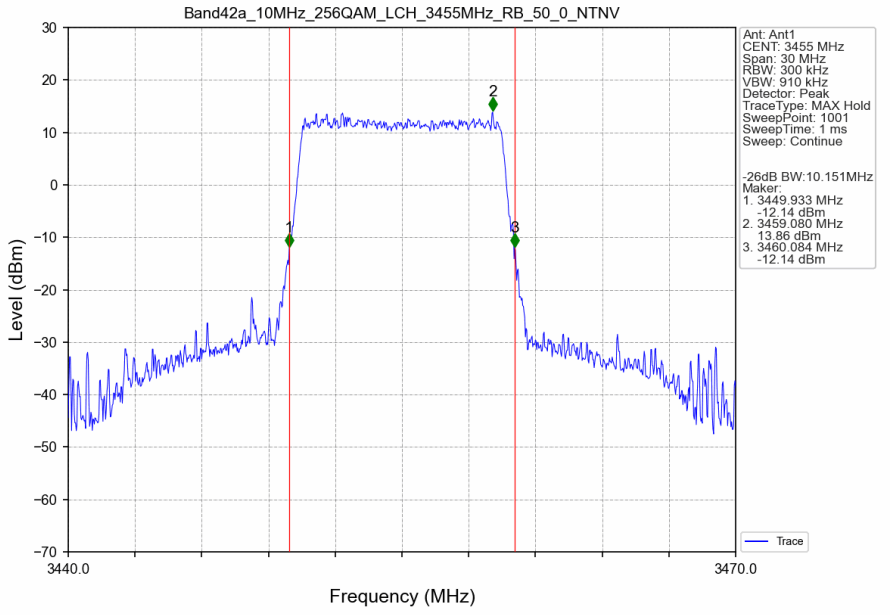
Band42a_10MHz_64QAM_MCH_3500MHz_RB_50_0_NTNV



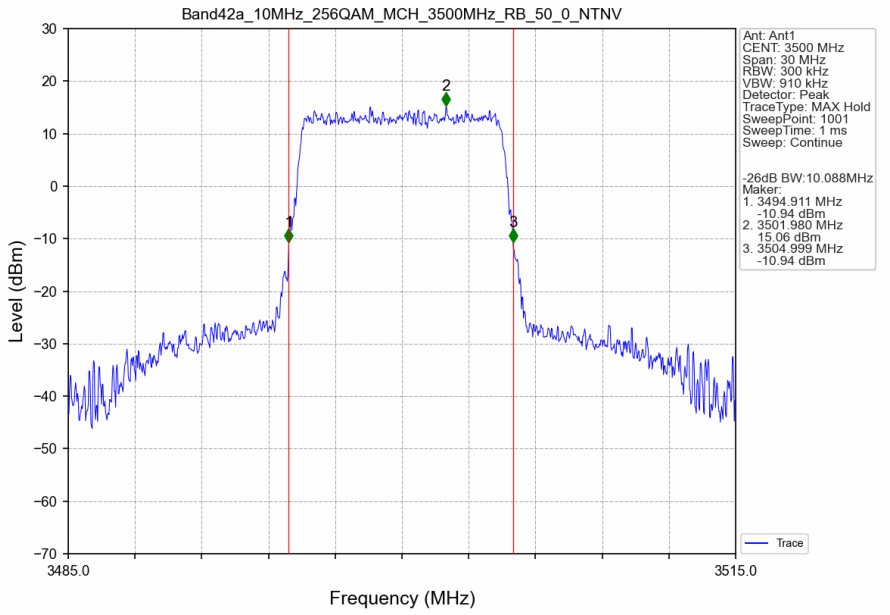
Band42a_10MHz_64QAM_HCH_3545MHz_RB_50_0_NTNV



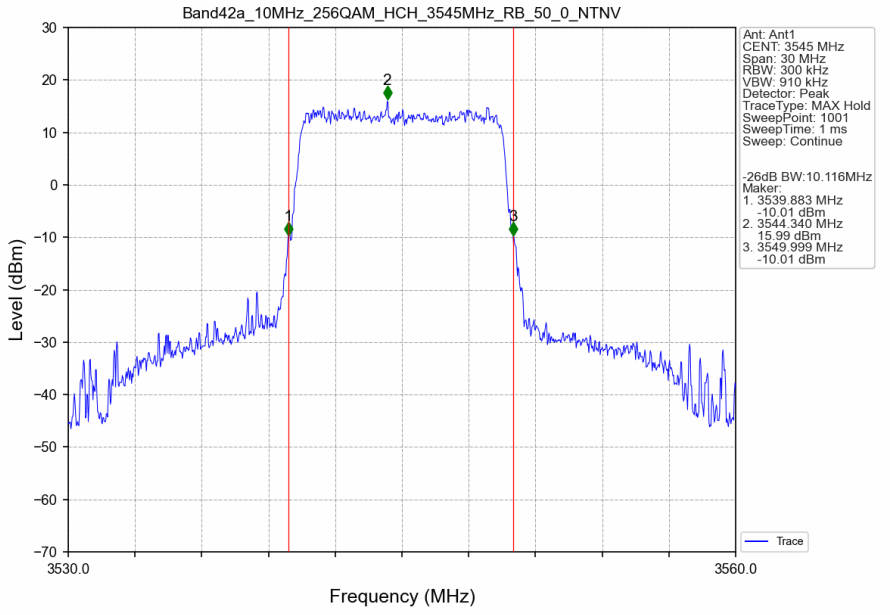
Band42a_10MHz_256QAM_LCH_3455MHz_RB_50_0_NTNV



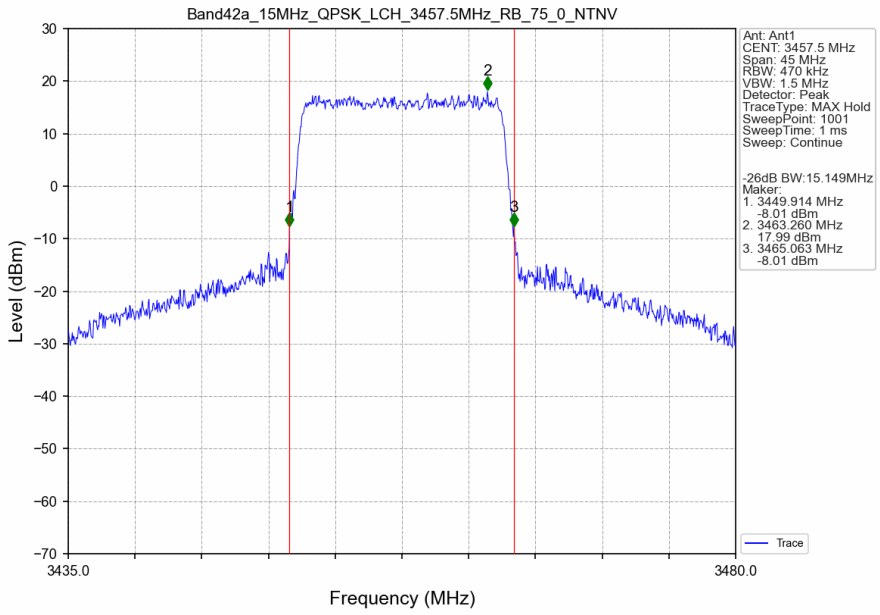
Band42a_10MHz_256QAM_MCH_3500MHz_RB_50_0_NTNV



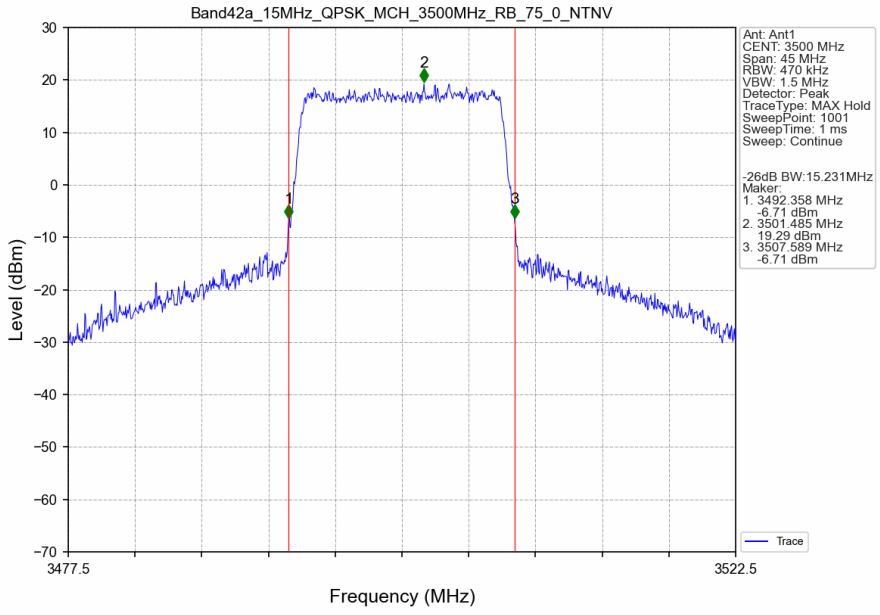
Band42a_10MHz_256QAM_HCH_3545MHz_RB_50_0_NTNV



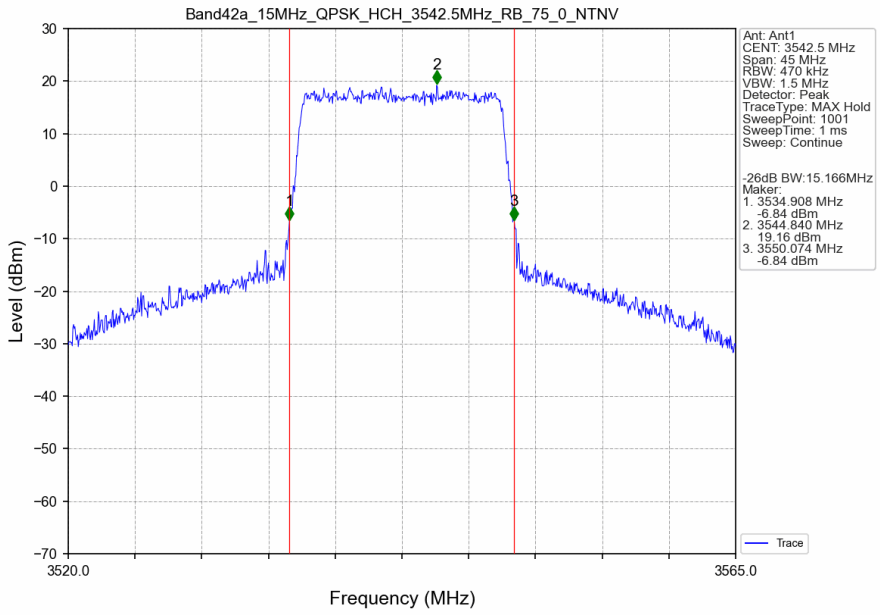
Band42a_15MHz_QPSK_LCH_3457.5MHz_RB_75_0_NTNV



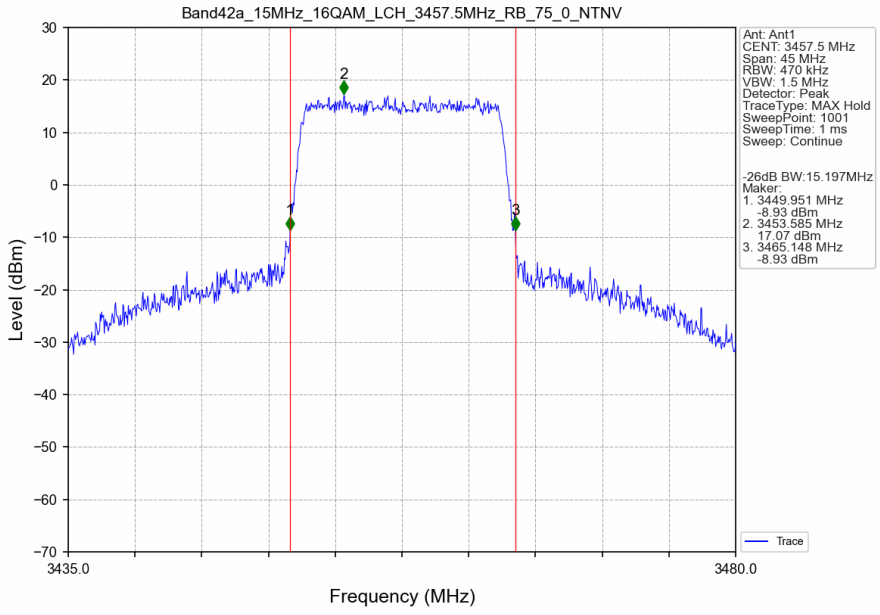
Band42a_15MHz_QPSK_MCH_3500MHz_RB_75_0_NTNV



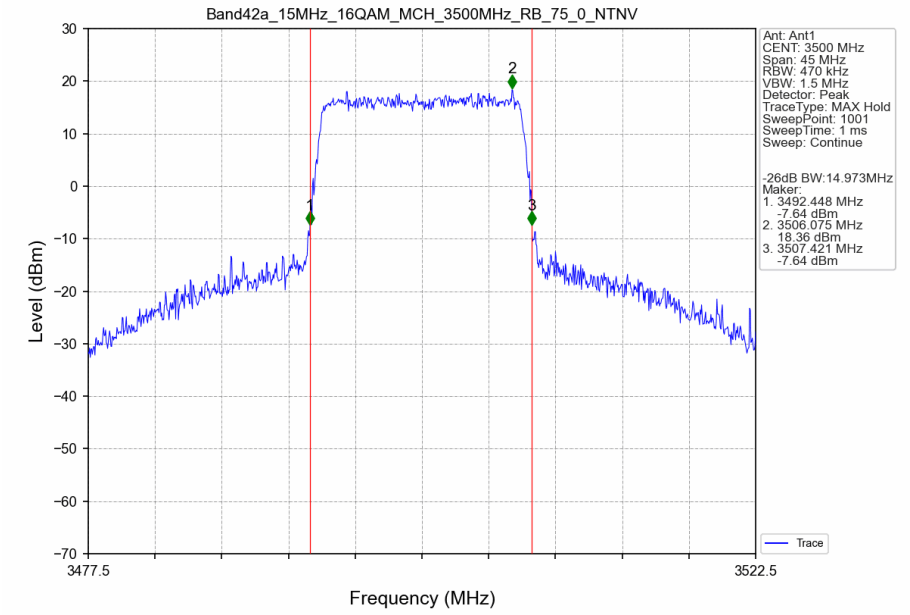
Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_75_0_NTNV



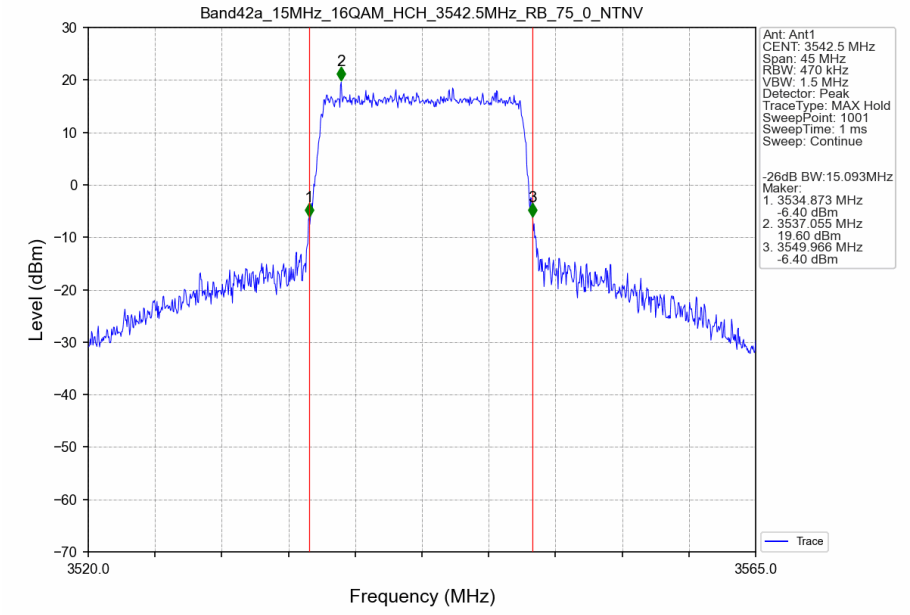
Band42a_15MHz_16QAM_LCH_3457.5MHz_RB_75_0_NTNV



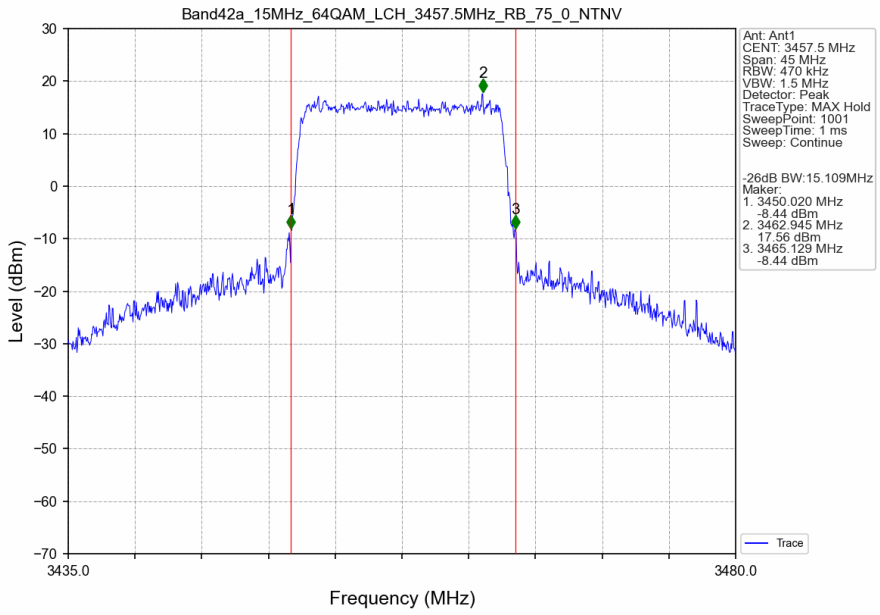
Band42a_15MHz_16QAM_MCH_3500MHz_RB_75_0_NTNV



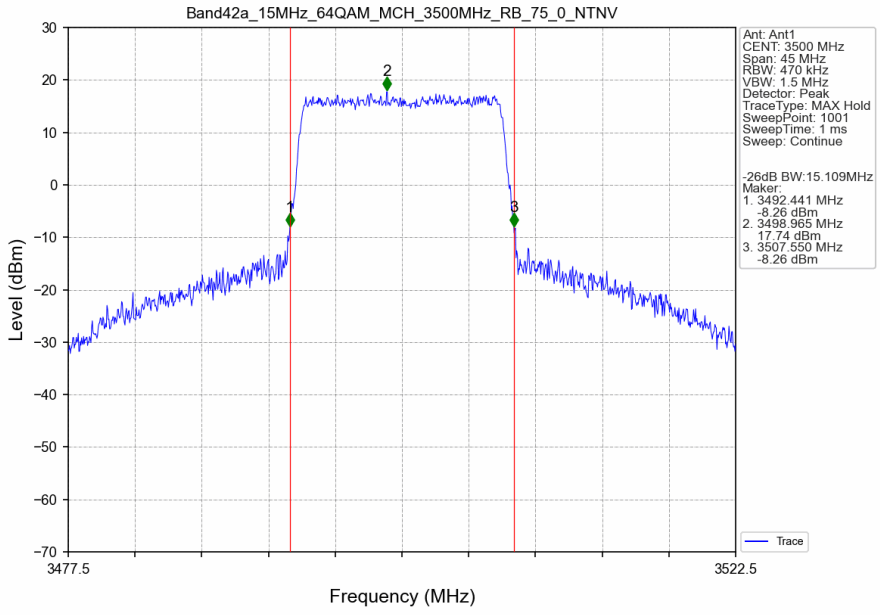
Band42a_15MHz_16QAM_HCH_3542.5MHz_RB_75_0_NTNV



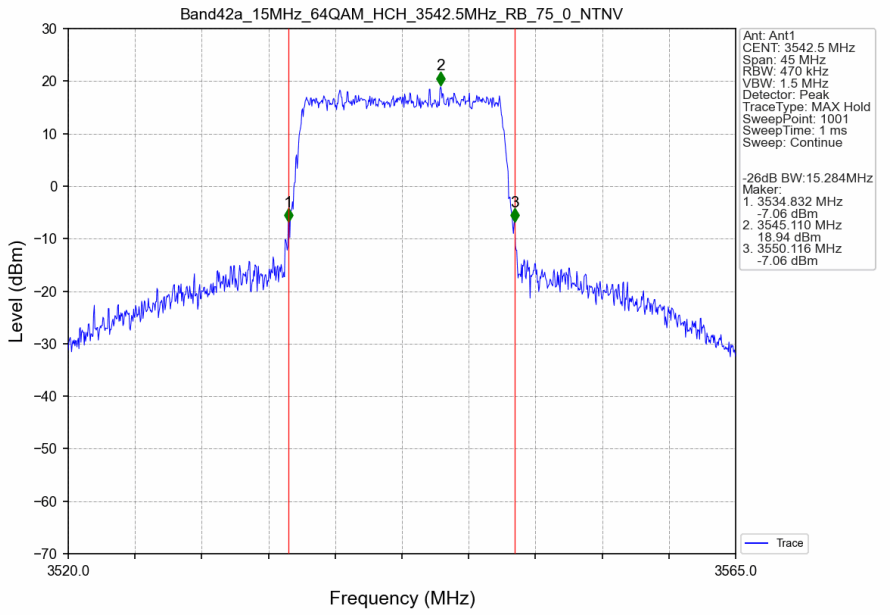
Band42a_15MHz_64QAM_LCH_3457.5MHz_RB_75_0_NTNV



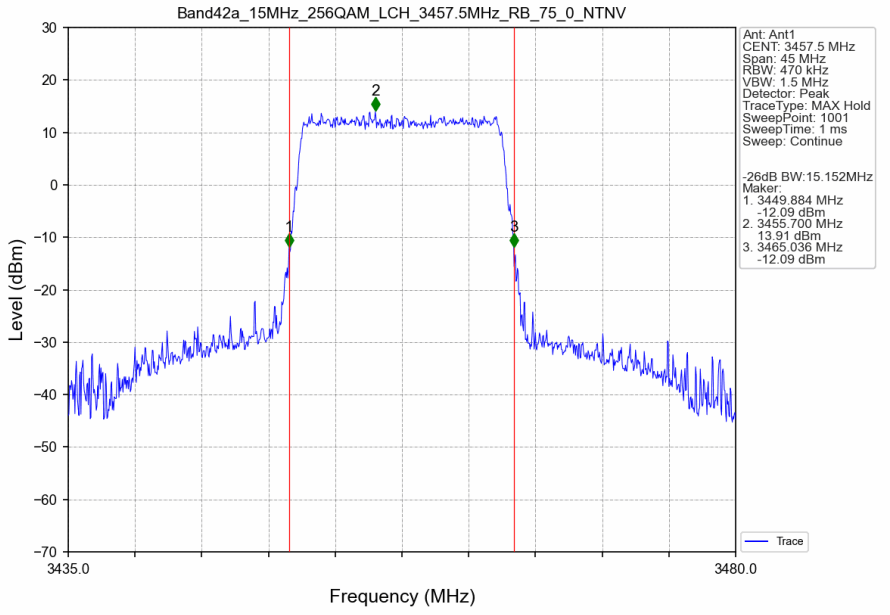
Band42a_15MHz_64QAM_MCH_3500MHz_RB_75_0_NTNV



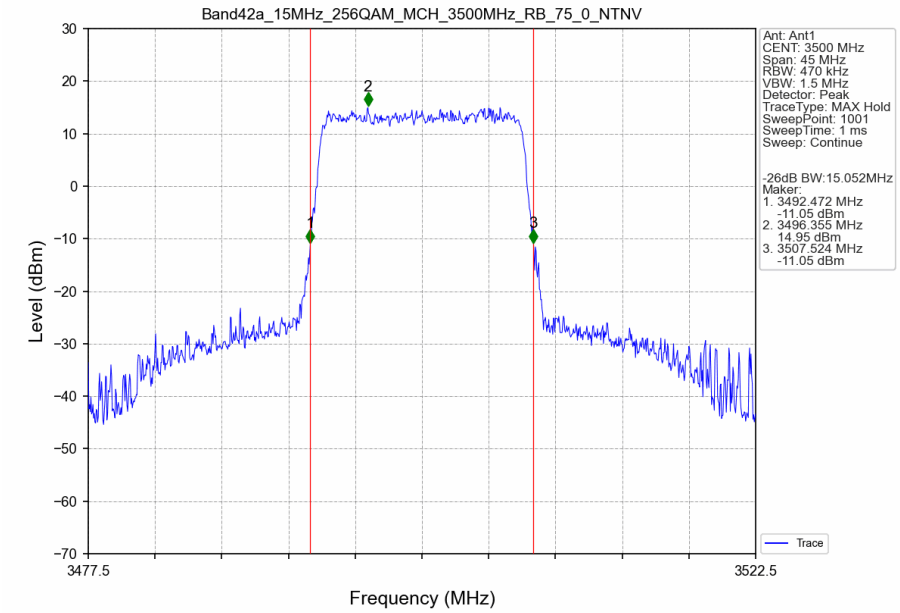
Band42a_15MHz_64QAM_HCH_3542.5MHz_RB_75_0_NTNV



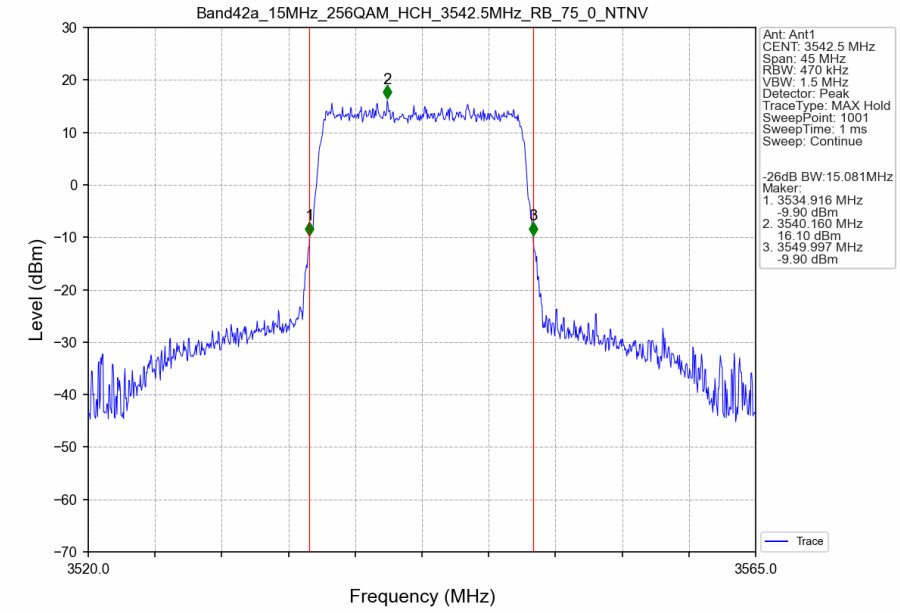
Band42a_15MHz_256QAM_LCH_3457.5MHz_RB_75_0_NTNV



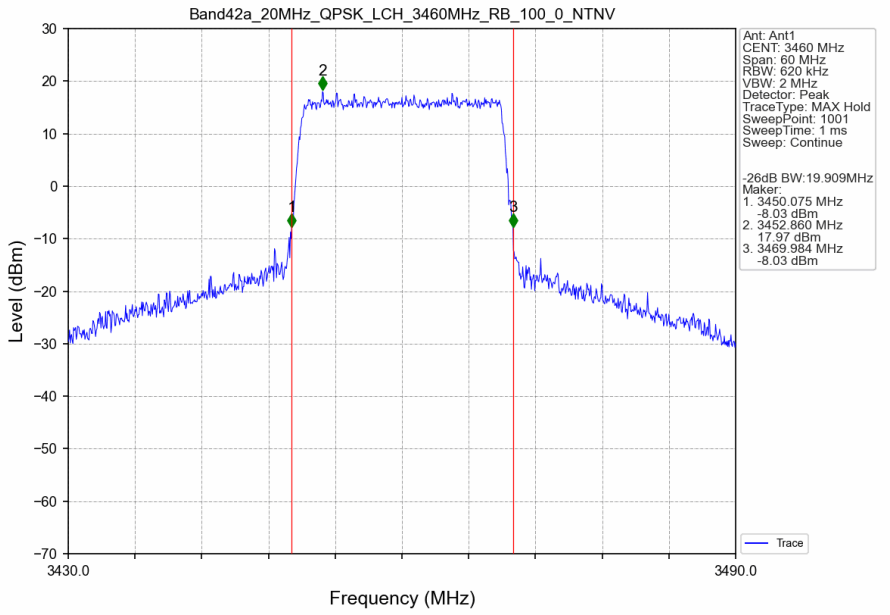
Band42a_15MHz_256QAM_MCH_3500MHz_RB_75_0_NTNV



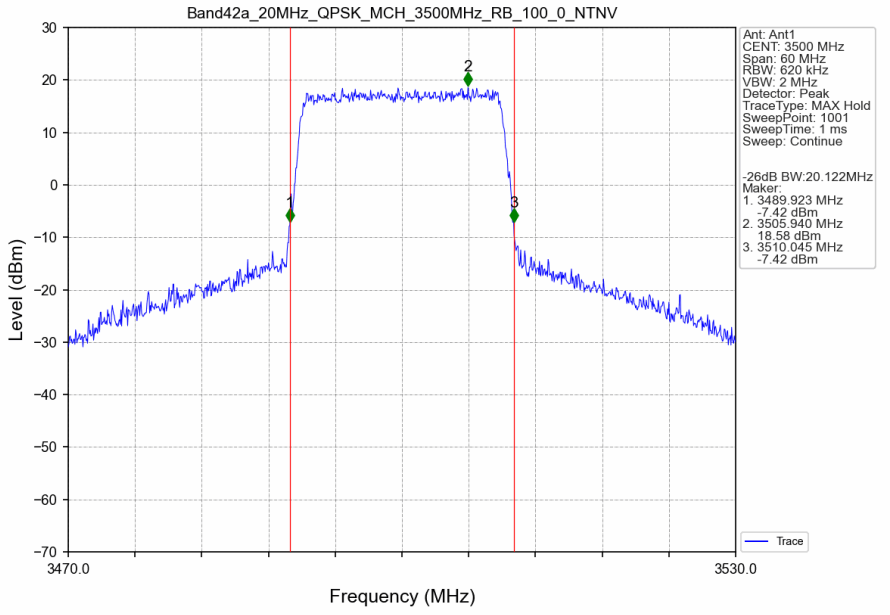
Band42a_15MHz_256QAM_HCH_3542.5MHz_RB_75_0_NTNV



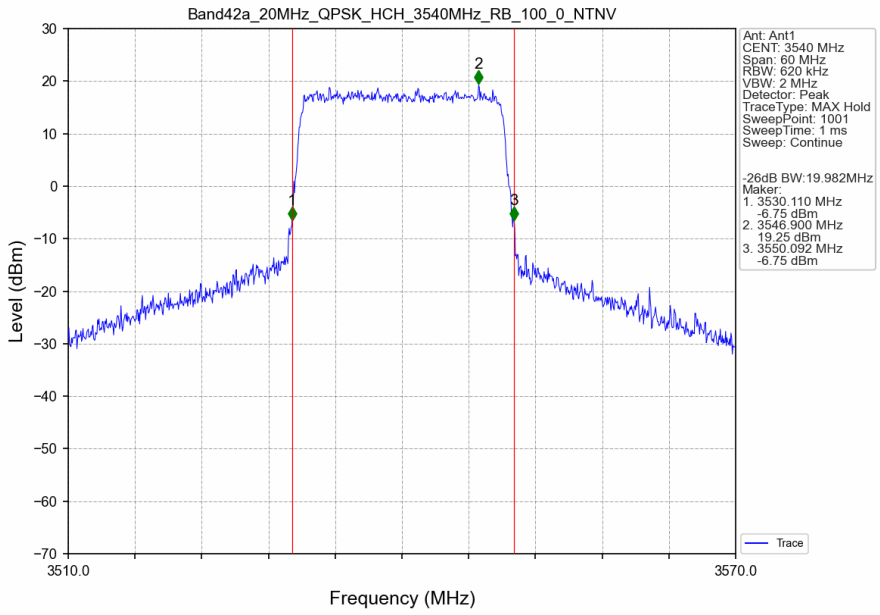
Band42a_20MHz_QPSK_LCH_3460MHz_RB_100_0_NTNV



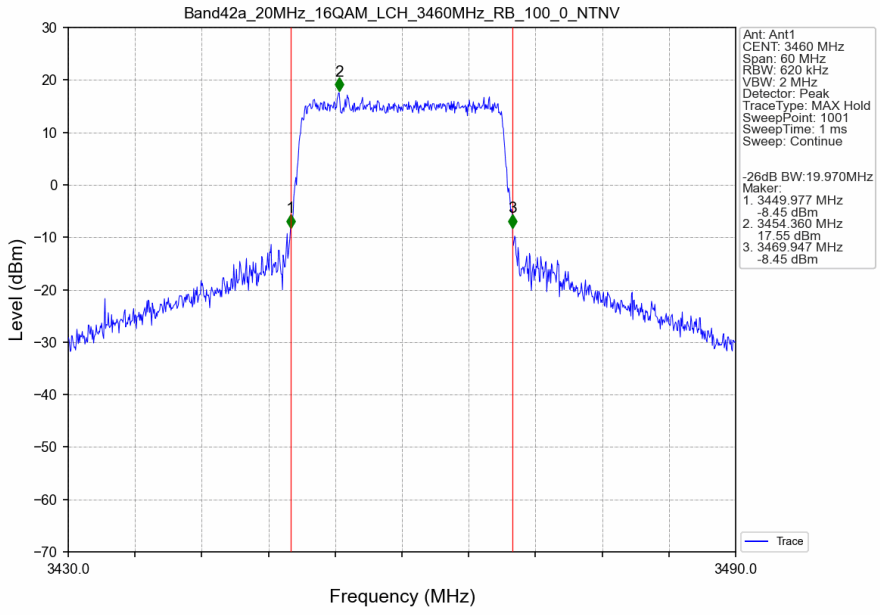
Band42a_20MHz_QPSK_MCH_3500MHz_RB_100_0_NTNV



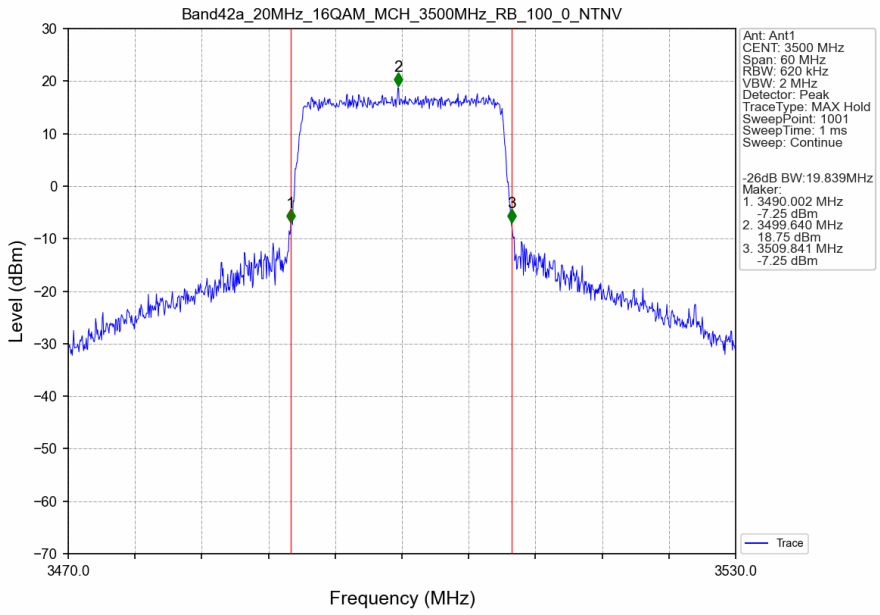
Band42a_20MHz_QPSK_HCH_3540MHz_RB_100_0_NTNV



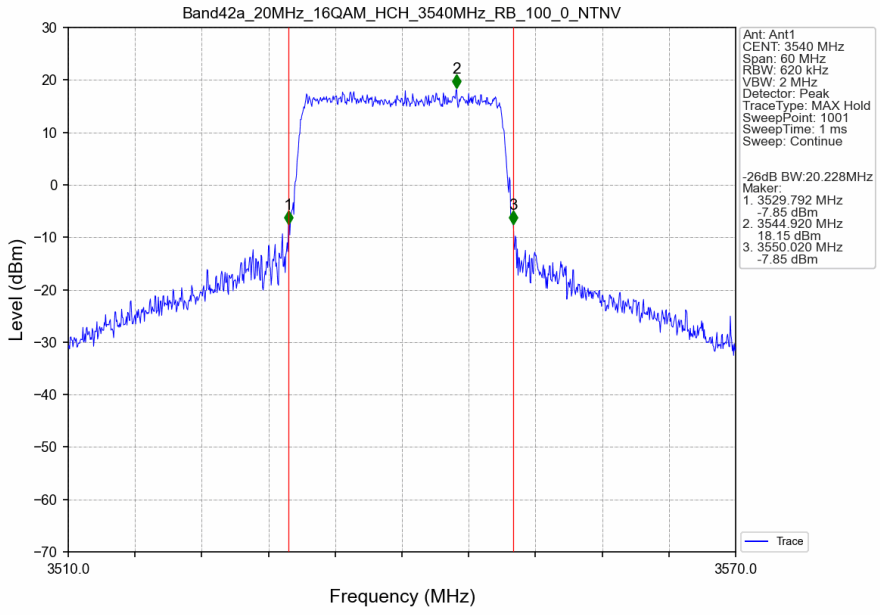
Band42a_20MHz_16QAM_LCH_3460MHz_RB_100_0_NTNV



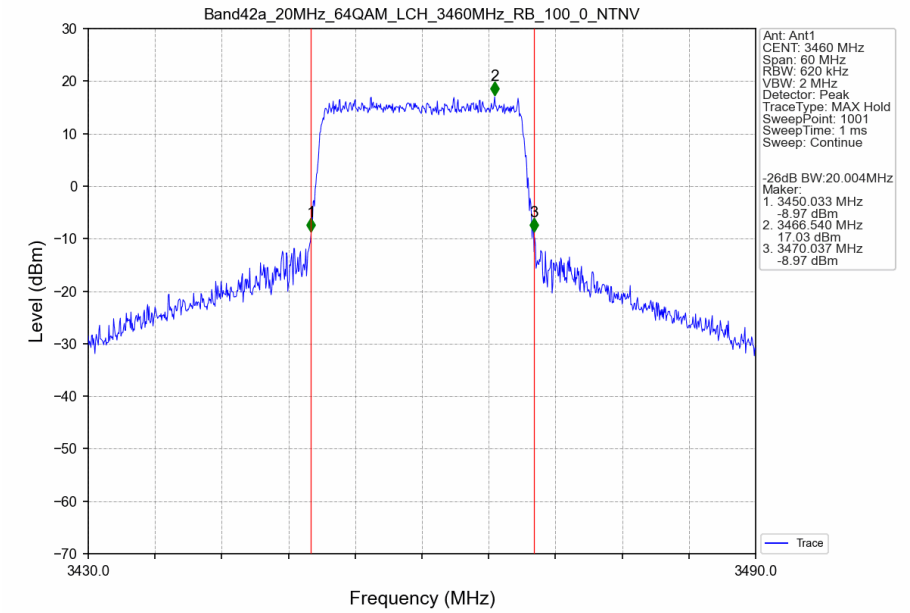
Band42a_20MHz_16QAM_MCH_3500MHz_RB_100_0_NTNV



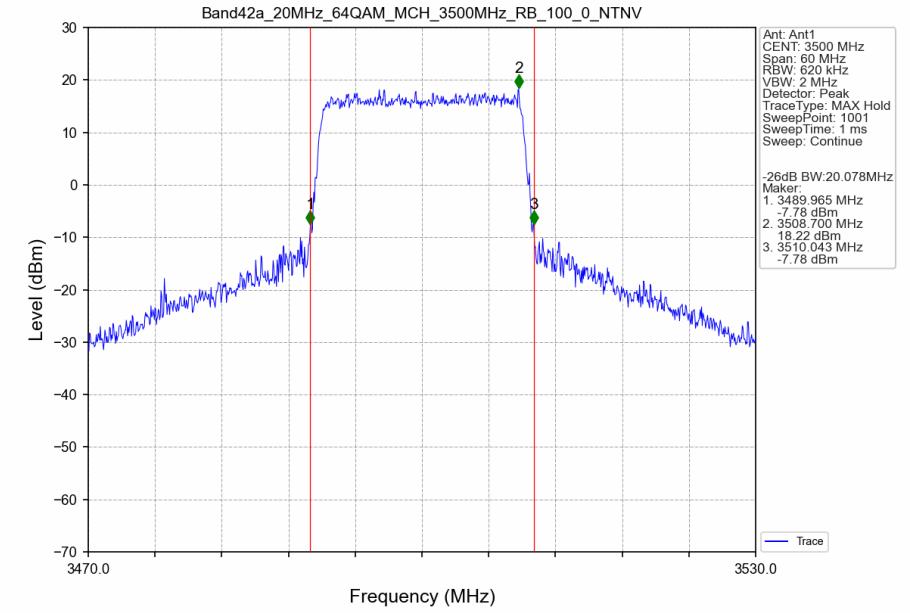
Band42a_20MHz_16QAM_HCH_3540MHz_RB_100_0_NTNV



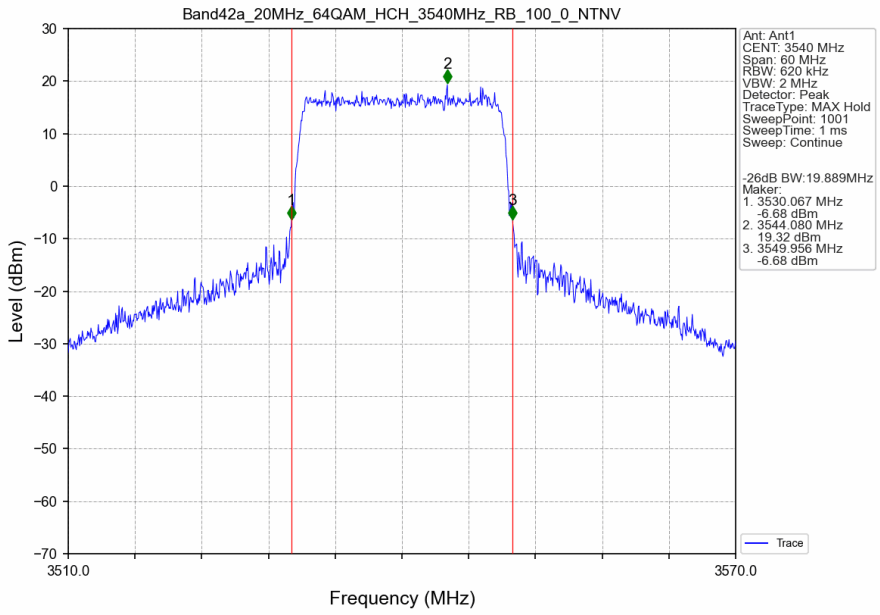
Band42a_20MHz_64QAM_LCH_3460MHz_RB_100_0_NTNV



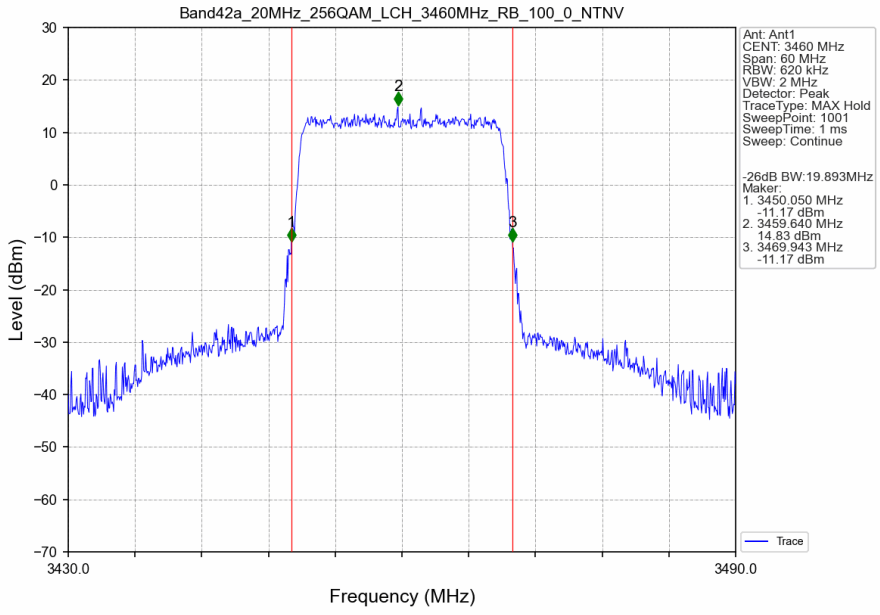
Band42a_20MHz_64QAM_MCH_3500MHz_RB_100_0_NTNV



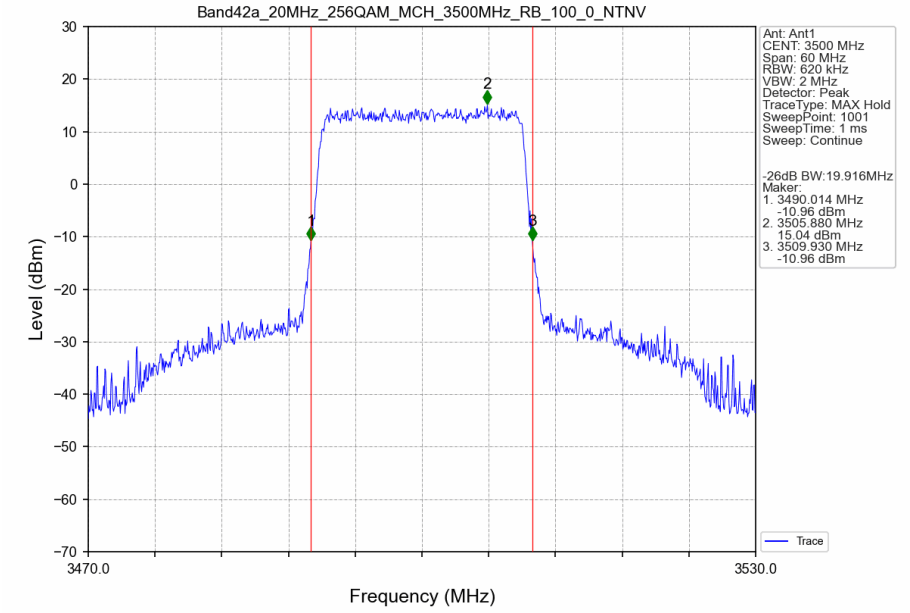
Band42a_20MHz_64QAM_HCH_3540MHz_RB_100_0_NTNV



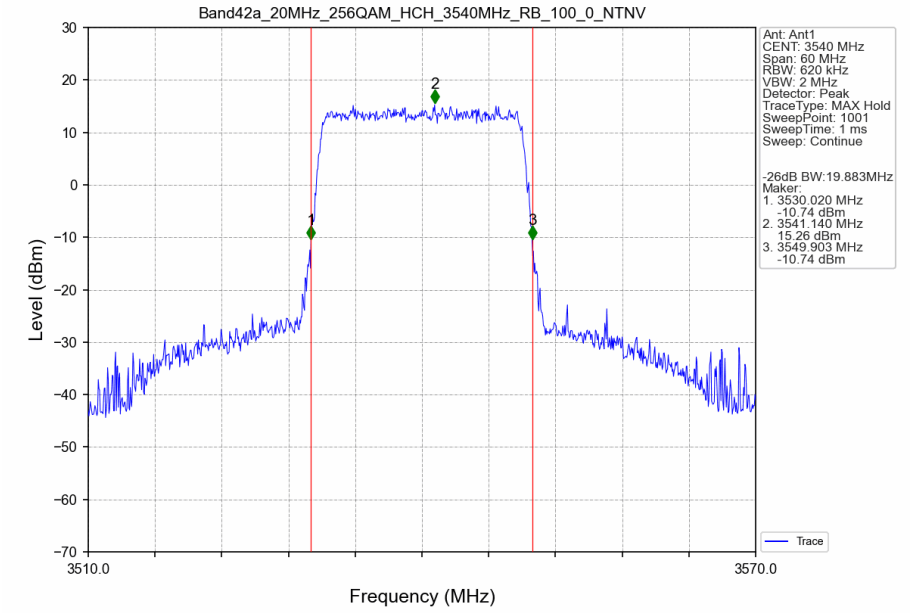
Band42a_20MHz_256QAM_LCH_3460MHz_RB_100_0_NTNV



Band42a_20MHz_256QAM_MCH_3500MHz_RB_100_0_NTNV



Band42a_20MHz_256QAM_HCH_3540MHz_RB_100_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B42a_5MHz

Band: 42a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3452.5	25	0	7.31	<=13	Pass
	3500	25	0	7.36	<=13	Pass
	3547.5	25	0	7.43	<=13	Pass
16QAM	3452.5	25	0	8.08	<=13	Pass
	3500	25	0	8.04	<=13	Pass
	3547.5	25	0	8.16	<=13	Pass
64QAM	3452.5	25	0	8.06	<=13	Pass
	3500	25	0	8.05	<=13	Pass
	3547.5	25	0	8.09	<=13	Pass
256QAM	3452.5	25	0	8.72	<=13	Pass
	3500	25	0	8.76	<=13	Pass
	3547.5	25	0	8.71	<=13	Pass

4.1.2 B42a_10MHz

Band: 42a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3455	50	0	7.38	<=13	Pass
	3500	50	0	7.36	<=13	Pass
	3545	50	0	7.52	<=13	Pass
16QAM	3455	50	0	8.11	<=13	Pass
	3500	50	0	7.88	<=13	Pass
	3545	50	0	8.41	<=13	Pass
64QAM	3455	50	0	8.14	<=13	Pass
	3500	50	0	8.01	<=13	Pass
	3545	50	0	8.39	<=13	Pass
256QAM	3455	50	0	8.65	<=13	Pass
	3500	50	0	8.65	<=13	Pass
	3545	50	0	8.57	<=13	Pass

4.1.3 B42a_15MHz

Band: 42a / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3457.5	75	0	7.33	<=13	Pass
	3500	75	0	7.32	<=13	Pass
	3542.5	75	0	7.31	<=13	Pass
16QAM	3457.5	75	0	8.16	<=13	Pass
	3500	75	0	8.11	<=13	Pass

	3542.5	75	0	8.24	<=13	Pass
64QAM	3457.5	75	0	7.49	<=13	Pass
	3500	75	0	8.20	<=13	Pass
	3542.5	75	0	8.18	<=13	Pass
256QAM	3457.5	75	0	8.78	<=13	Pass
	3500	75	0	8.65	<=13	Pass
	3542.5	75	0	8.51	<=13	Pass

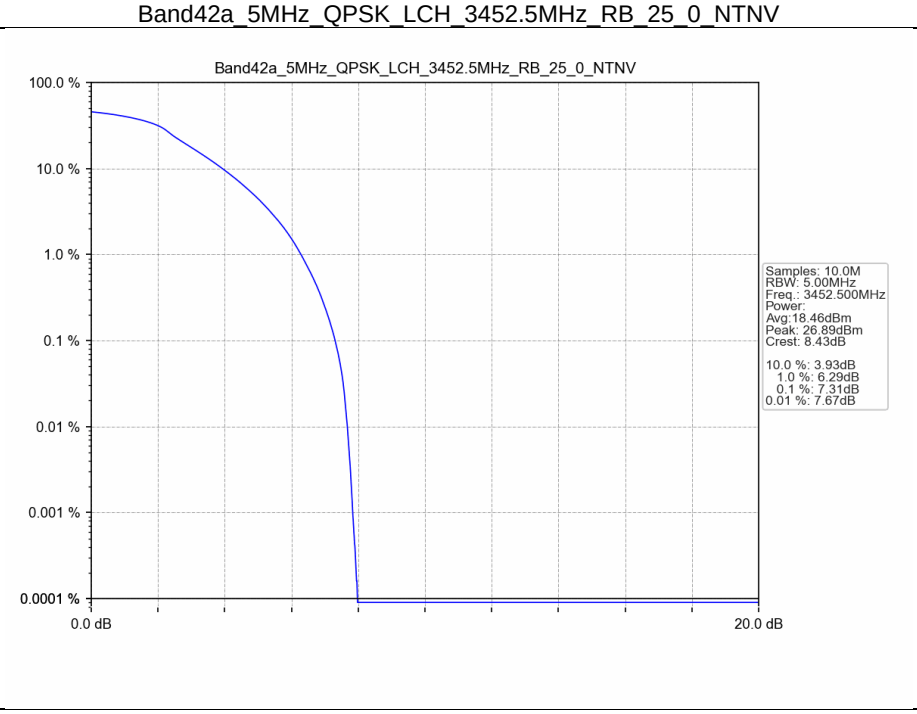
4.1.4 B42a_20MHz

Band: 42a / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3460	100	0	7.06	<=13	Pass
	3500	100	0	7.34	<=13	Pass
	3540	100	0	7.06	<=13	Pass
16QAM	3460	100	0	8.21	<=13	Pass
	3500	100	0	7.95	<=13	Pass
	3540	100	0	8.16	<=13	Pass
64QAM	3460	100	0	8.12	<=13	Pass
	3500	100	0	7.81	<=13	Pass
	3540	100	0	8.29	<=13	Pass
256QAM	3460	100	0	8.81	<=13	Pass
	3500	100	0	8.76	<=13	Pass
	3540	100	0	8.86	<=13	Pass

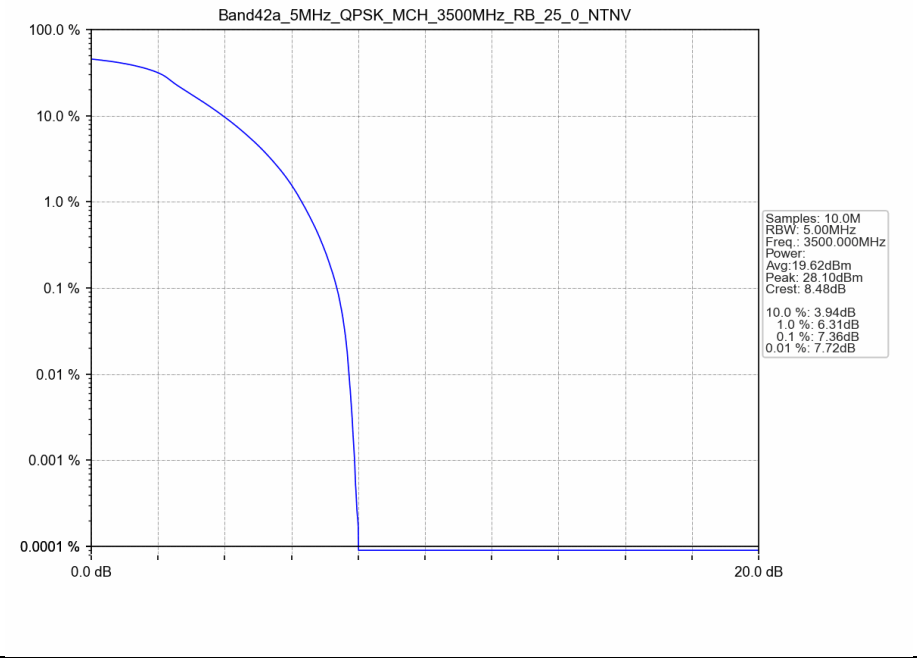
4.2 Test Graph

4.2.1 B42a_5MHz

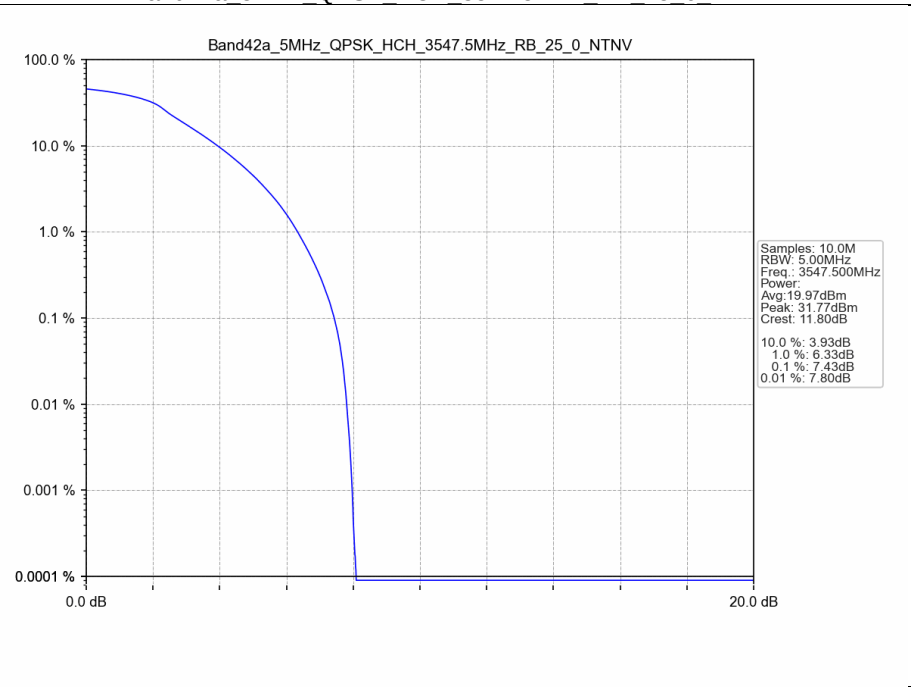
Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_25_0_NTNV



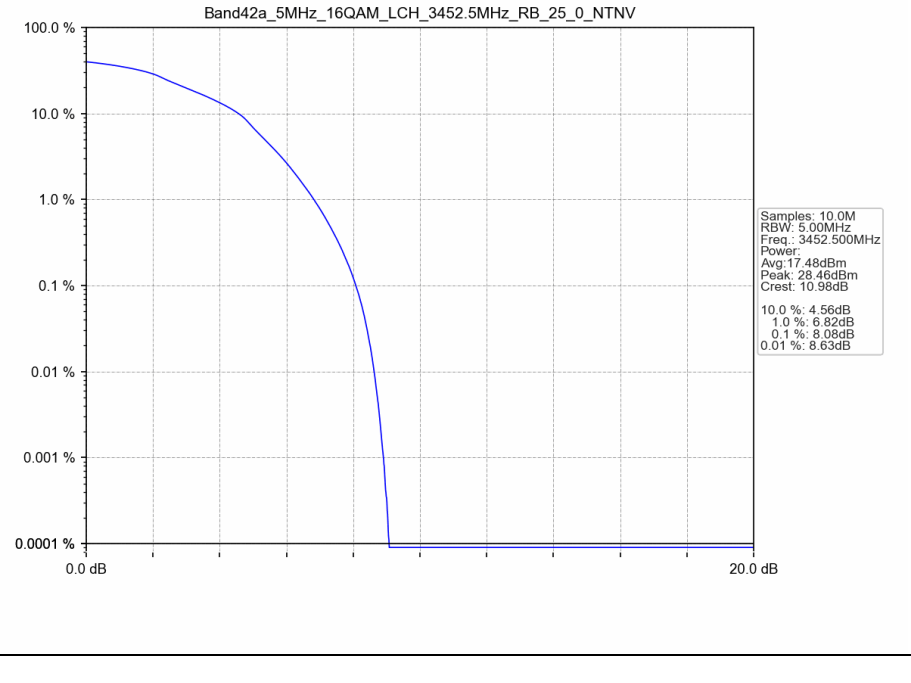
Band42a_5MHz_QPSK_MCH_3500MHz_RB_25_0_NTNV



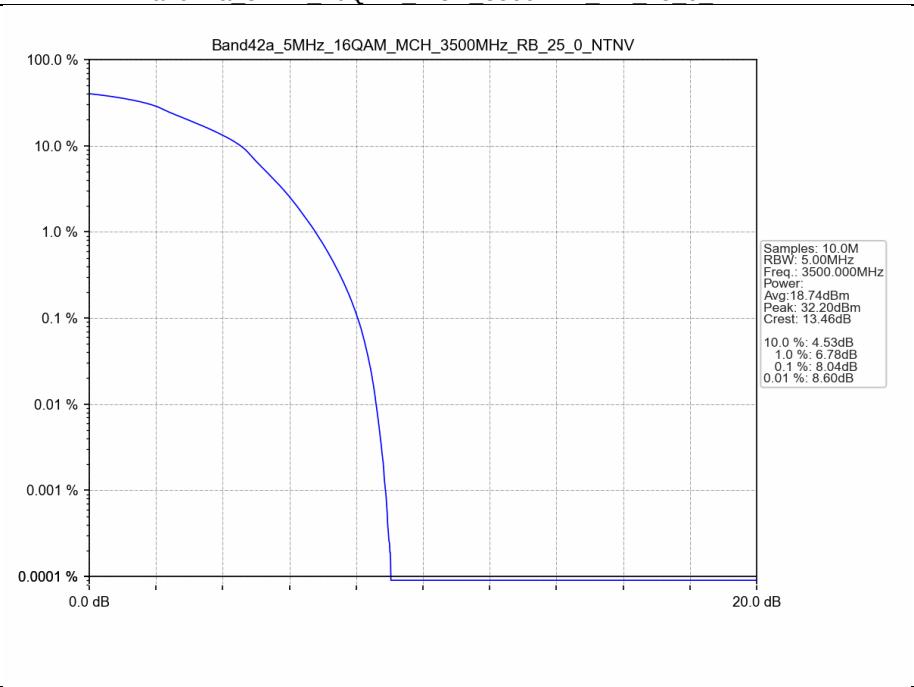
Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



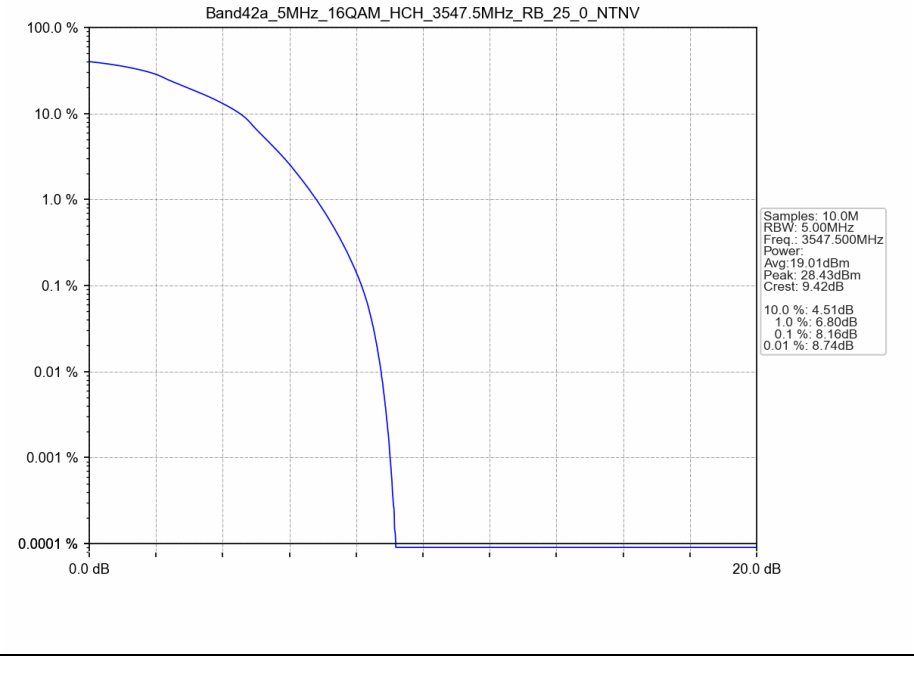
Band42a_5MHz_16QAM_LCH_3452.5MHz_RB_25_0_NTNV



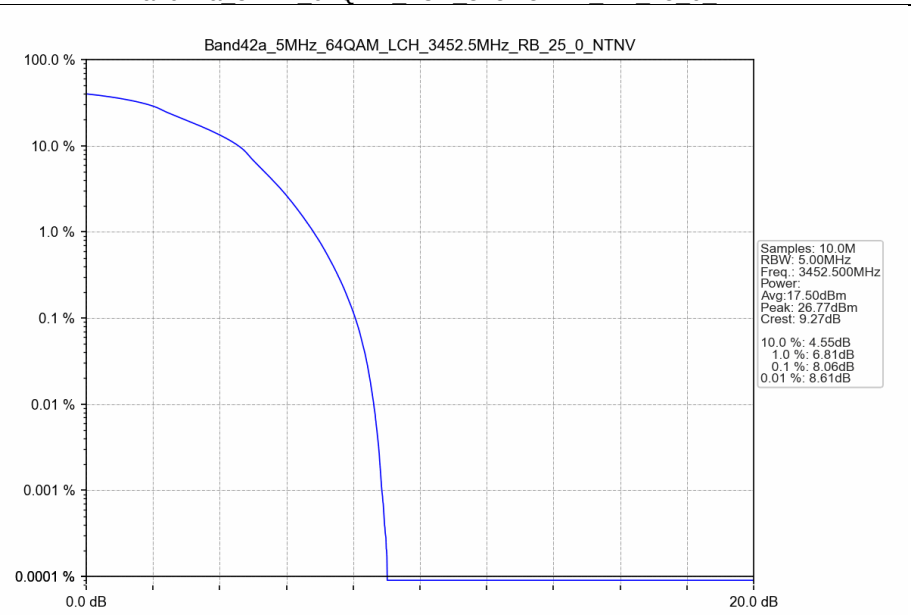
Band42a_5MHz_16QAM_MCH_3500MHz_RB_25_0_NTNV



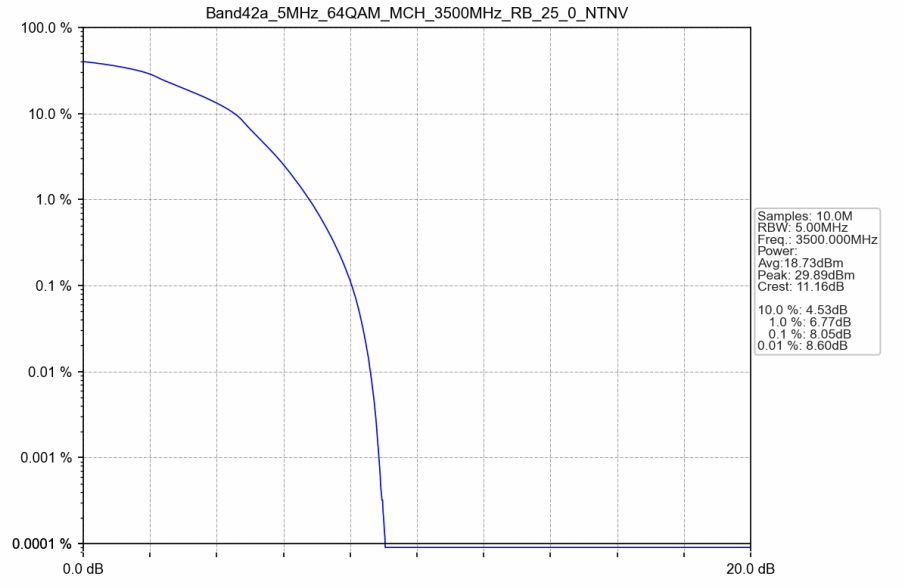
Band42a_5MHz_16QAM_HCH_3547.5MHz_RB_25_0_NTNV



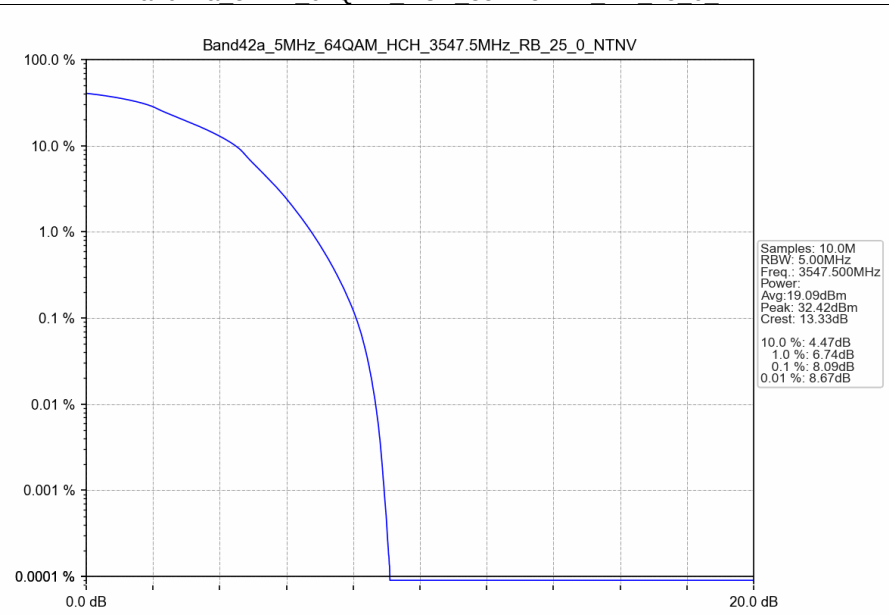
Band42a_5MHz_64QAM_LCH_3452.5MHz_RB_25_0_NTNV



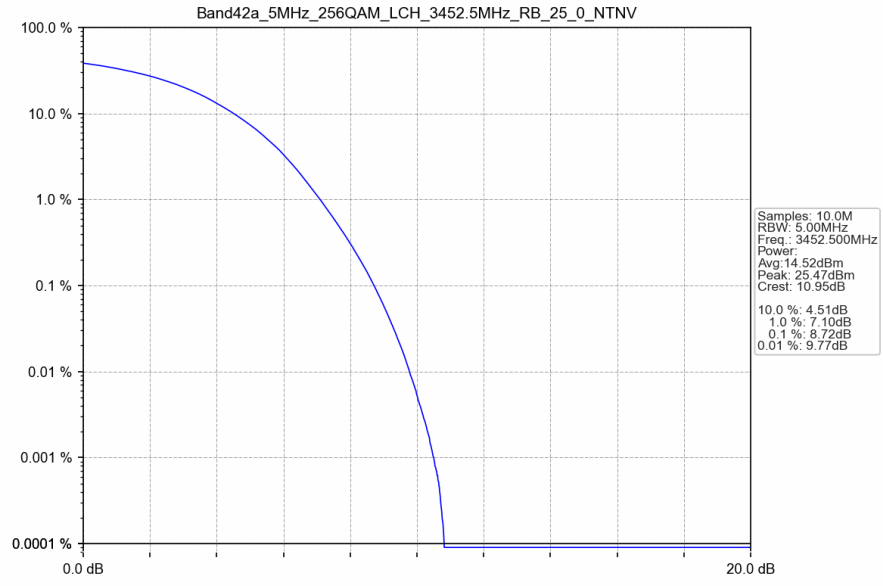
Band42a_5MHz_64QAM_MCH_3500MHz_RB_25_0_NTNV



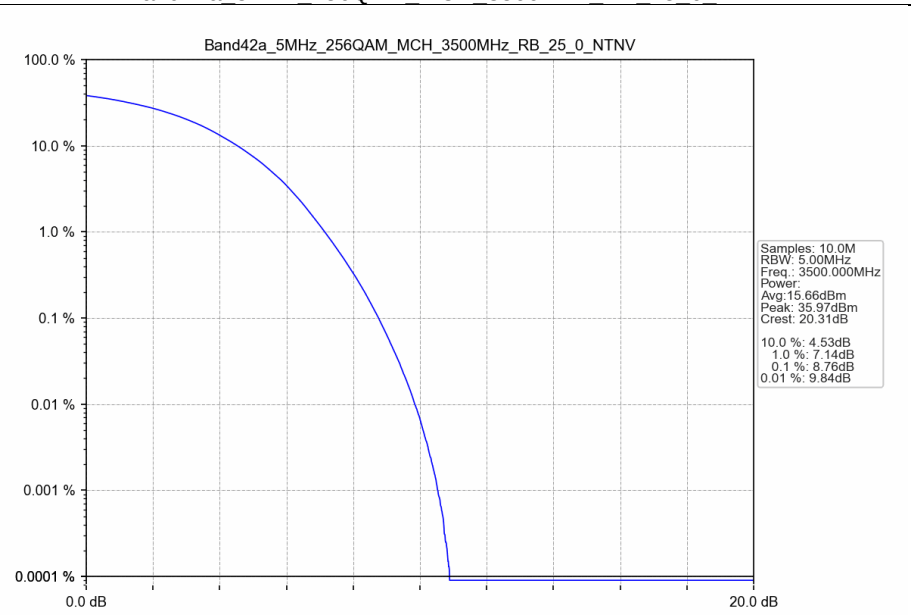
Band42a_5MHz_64QAM_HCH_3547.5MHz_RB_25_0_NTNV



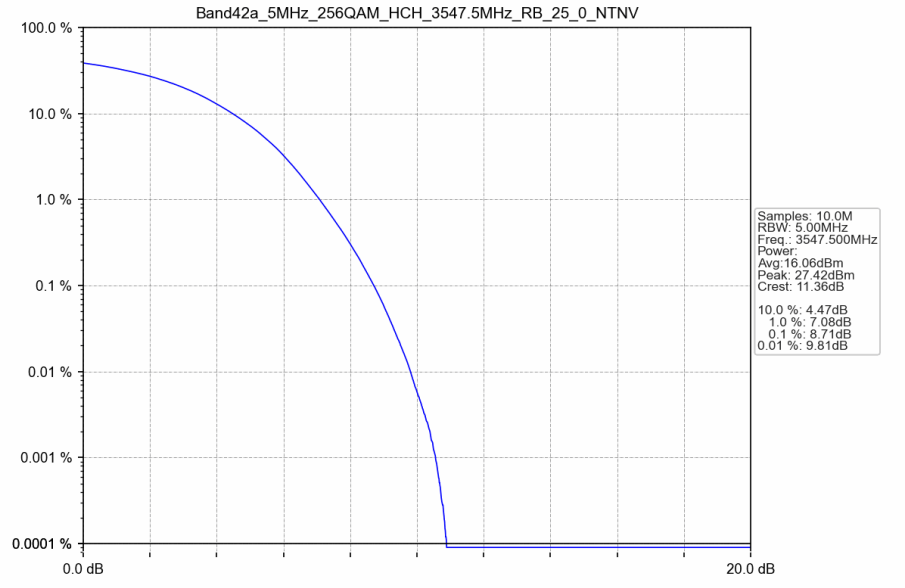
Band42a_5MHz_256QAM_LCH_3452.5MHz_RB_25_0_NTNV



Band42a_5MHz_256QAM_MCH_3500MHz_RB_25_0_NTNV

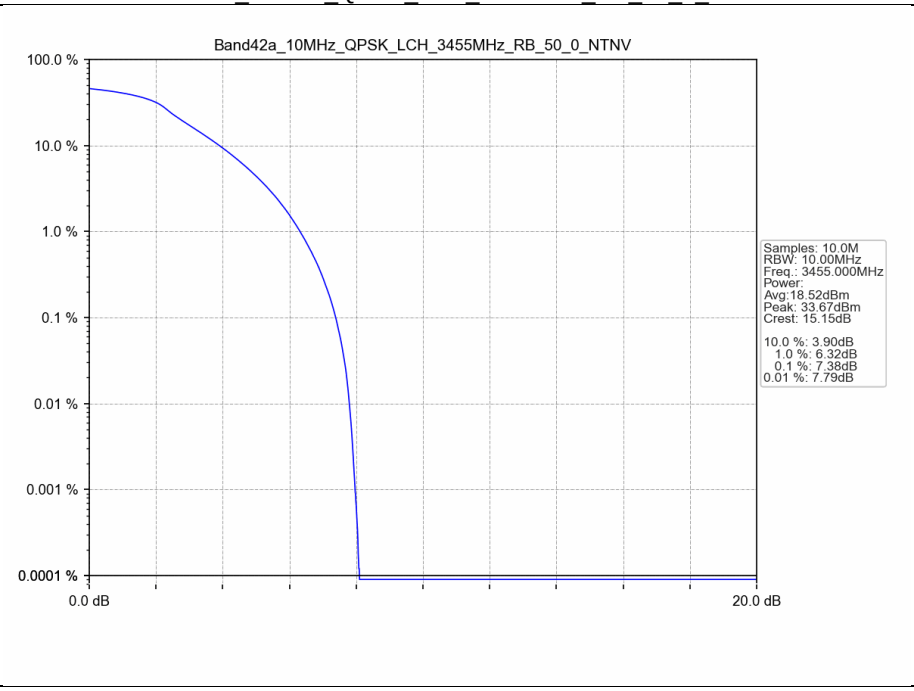


Band42a_5MHz_256QAM_HCH_3547.5MHz_RB_25_0_NTNV

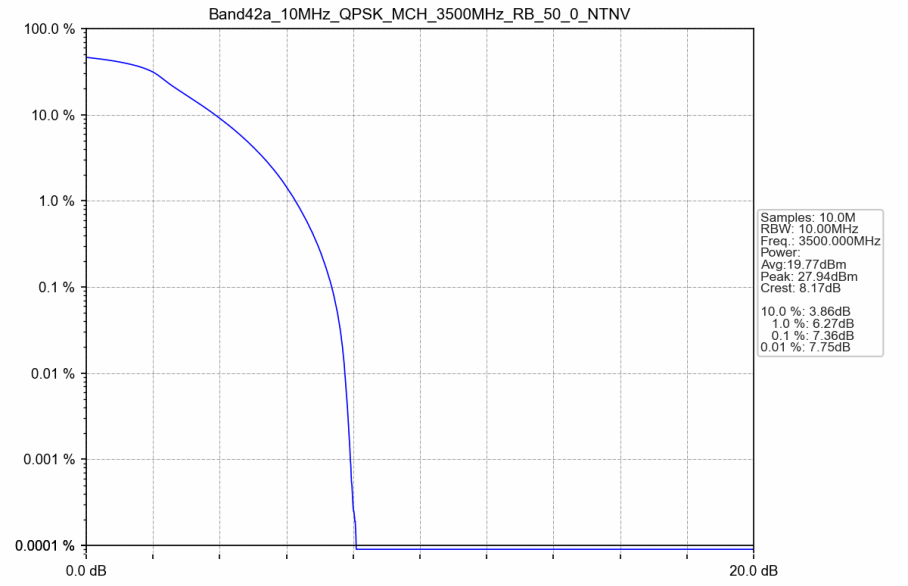


4.2.2 B42a_10MHz

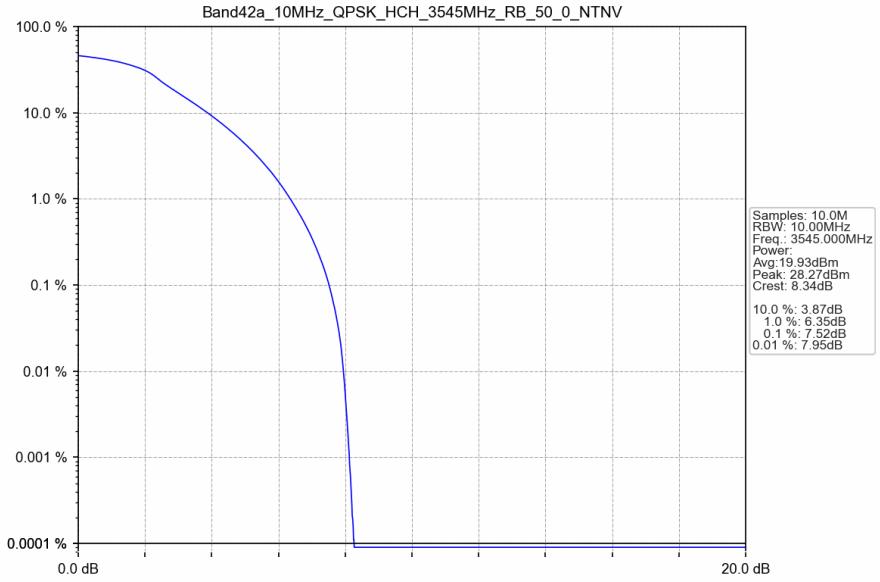
Band42a_10MHz_QPSK_LCH_3455MHz_RB_50_0_NTNV



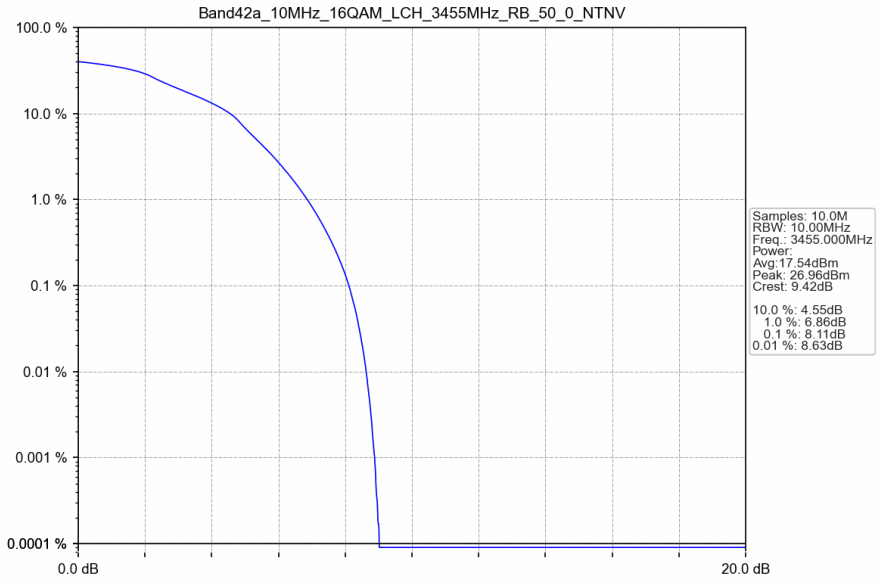
Band42a_10MHz_QPSK_MCH_3500MHz_RB_50_0_NTNV



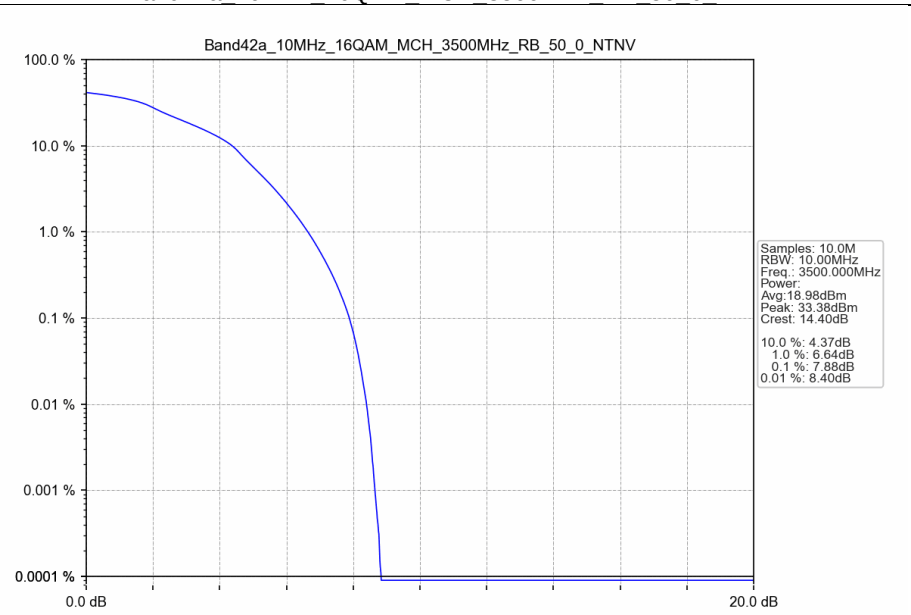
Band42a_10MHz_QPSK_HCH_3545MHz_RB_50_0_NTNV



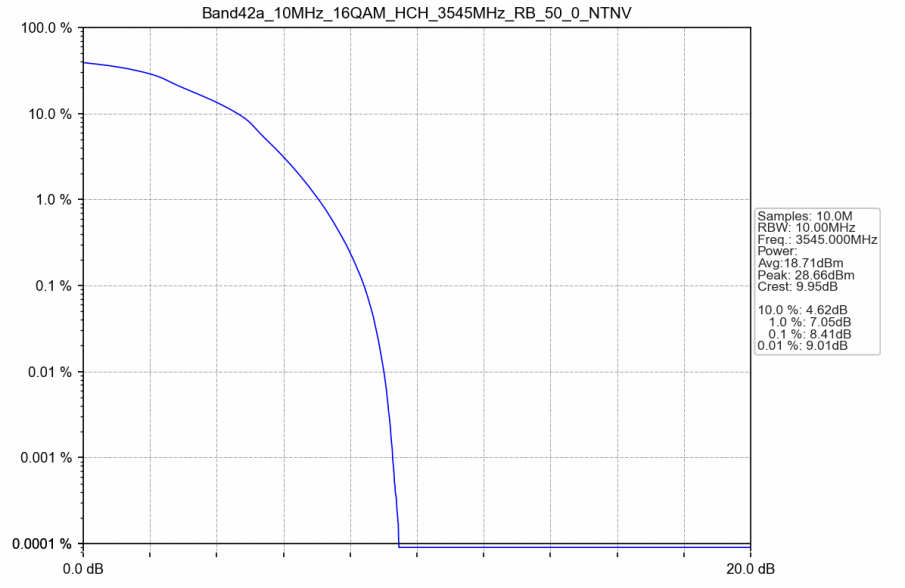
Band42a_10MHz_16QAM_LCH_3455MHz_RB_50_0_NTNV



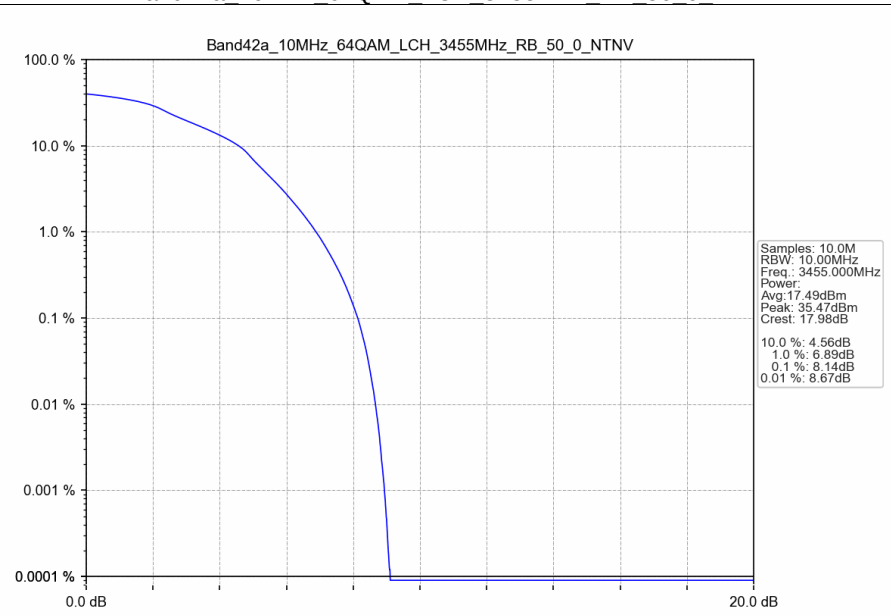
Band42a_10MHz_16QAM_MCH_3500MHz_RB_50_0_NTNV



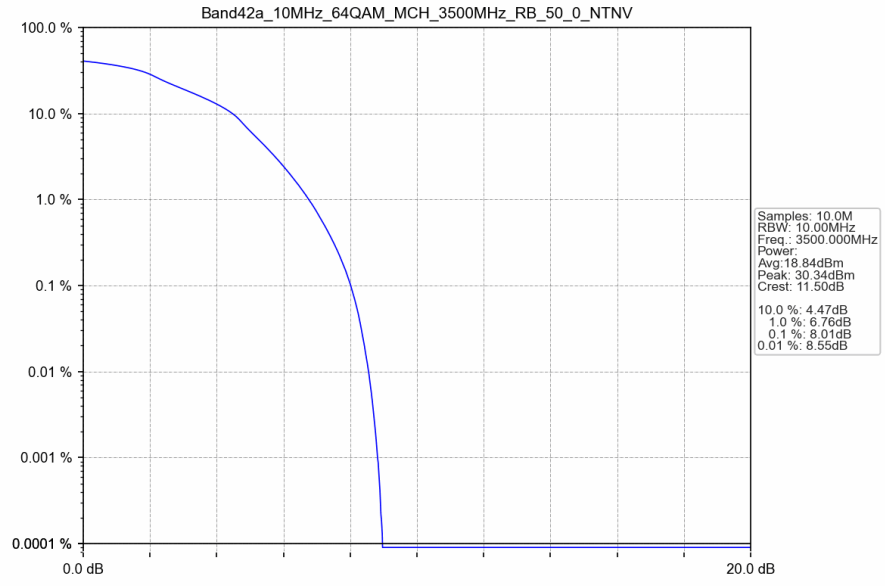
Band42a_10MHz_16QAM_HCH_3545MHz_RB_50_0_NTNV



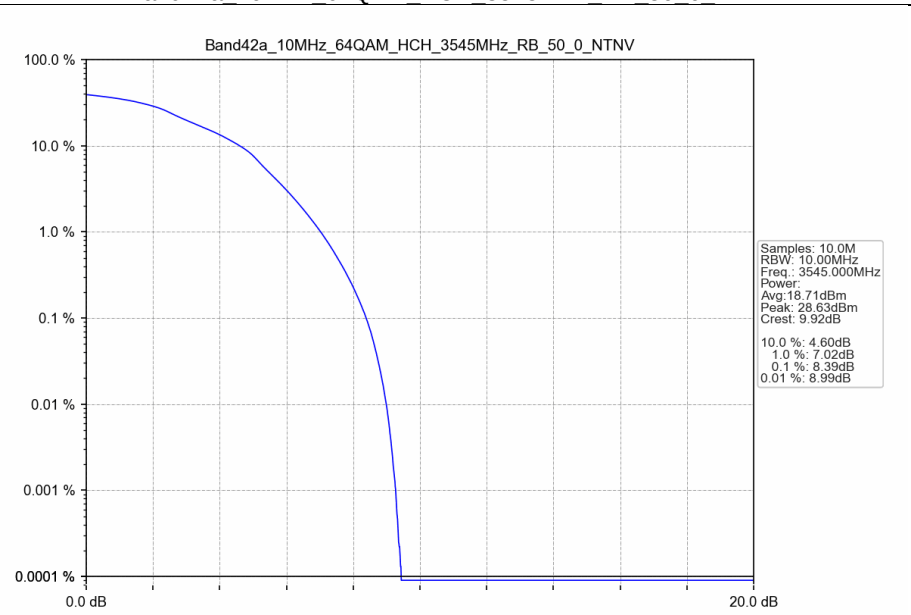
Band42a_10MHz_64QAM_LCH_3455MHz_RB_50_0_NTNV



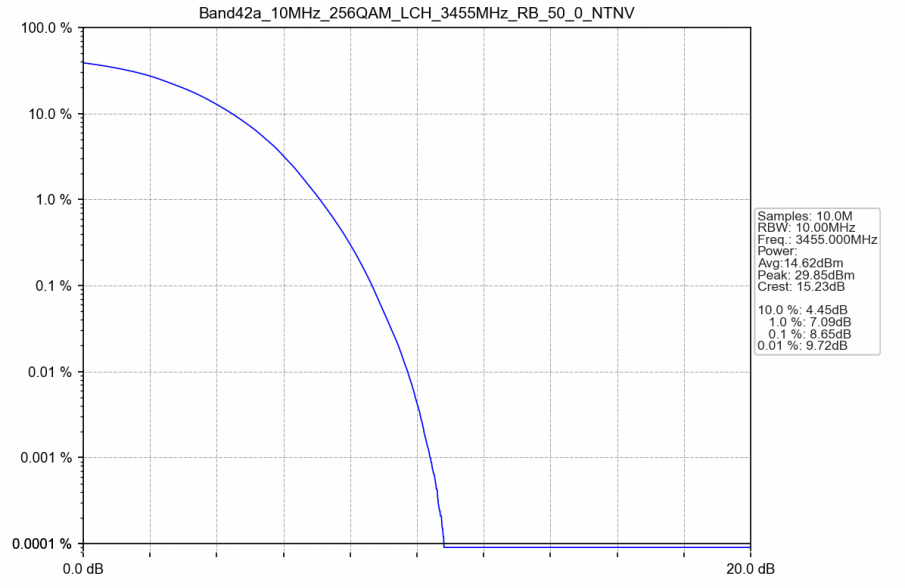
Band42a_10MHz_64QAM_MCH_3500MHz_RB_50_0_NTNV



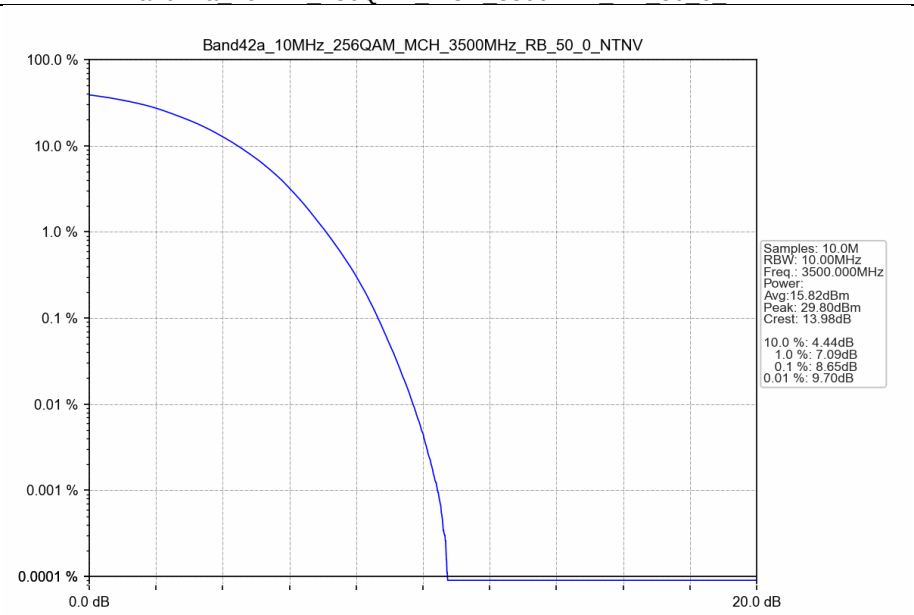
Band42a_10MHz_64QAM_HCH_3545MHz_RB_50_0_NTNV



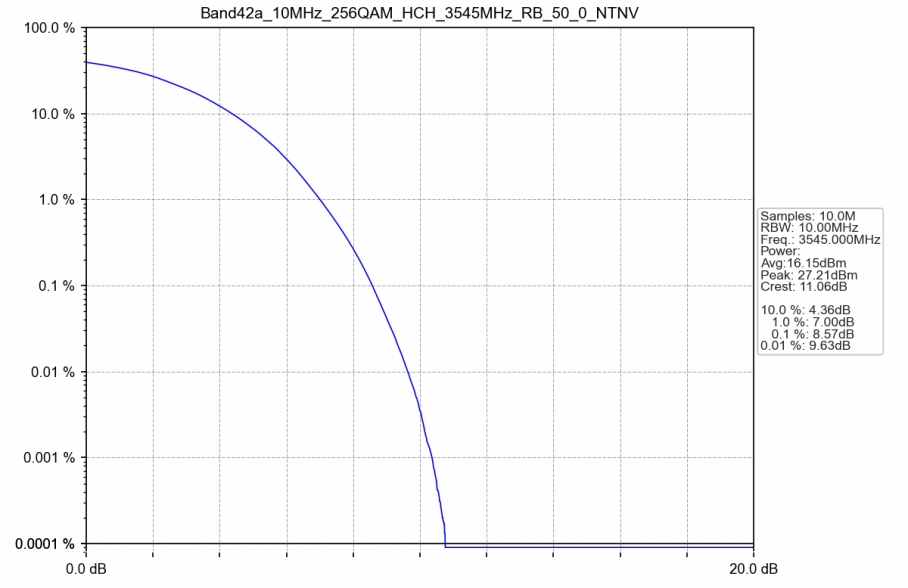
Band42a_10MHz_256QAM_LCH_3455MHz_RB_50_0_NTNV



Band42a_10MHz_256QAM_MCH_3500MHz_RB_50_0_NTNV

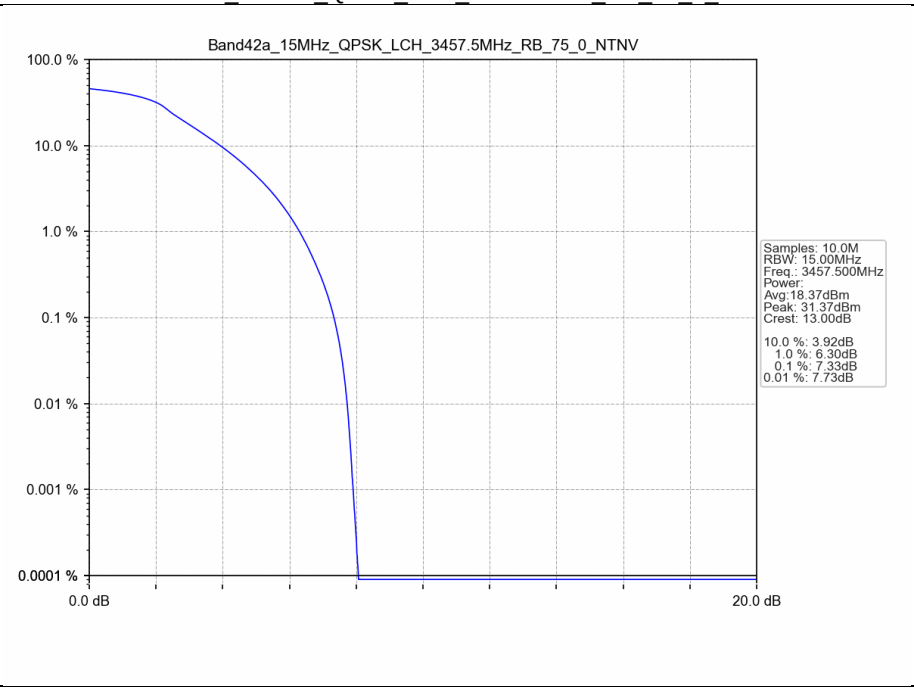


Band42a_10MHz_256QAM_HCH_3545MHz_RB_50_0_NTNV

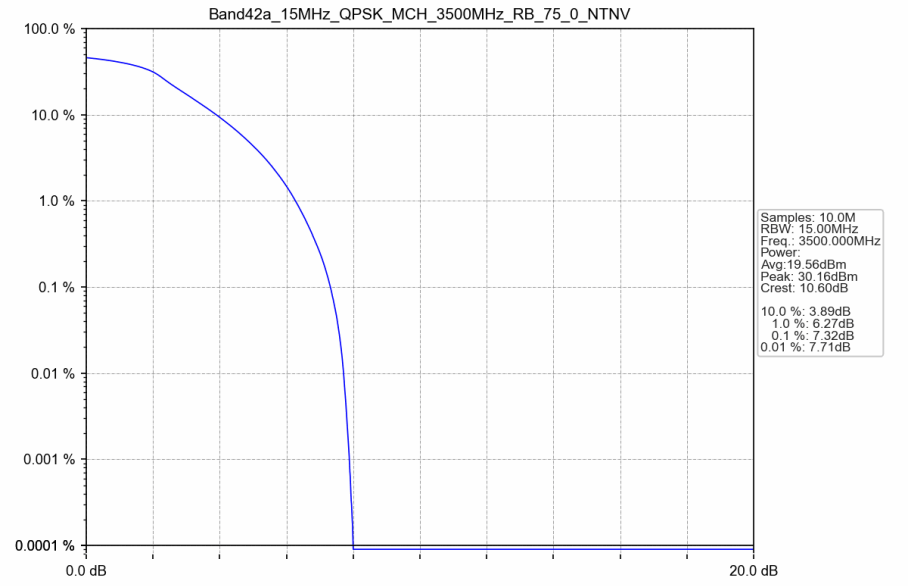


4.2.3 B42a_15MHz

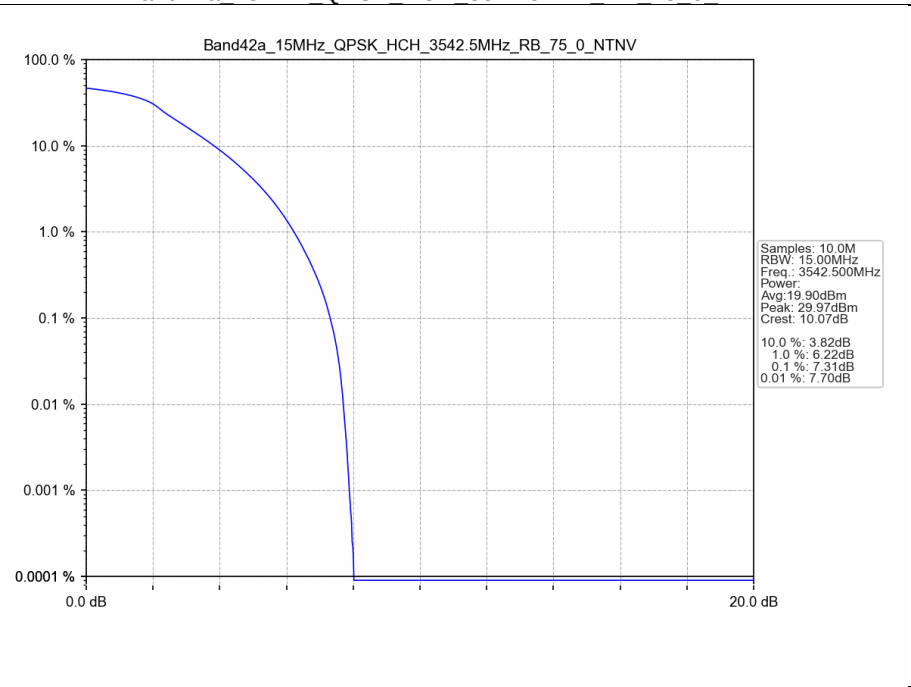
Band42a_15MHz_QPSK_LCH_3457.5MHz_RB_75_0_NTNV



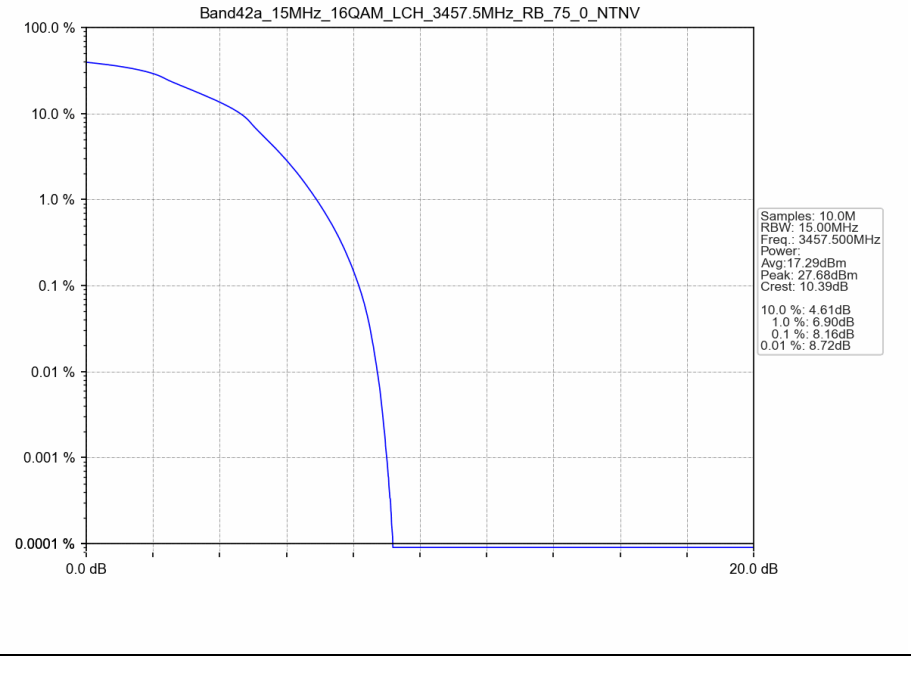
Band42a_15MHz_QPSK_MCH_3500MHz_RB_75_0_NTNV



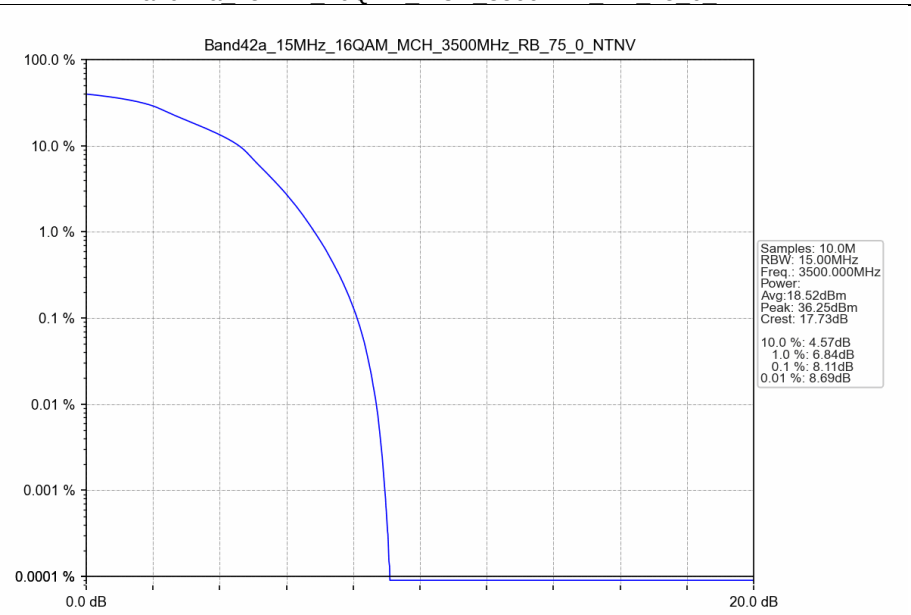
Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_75_0_NTNV



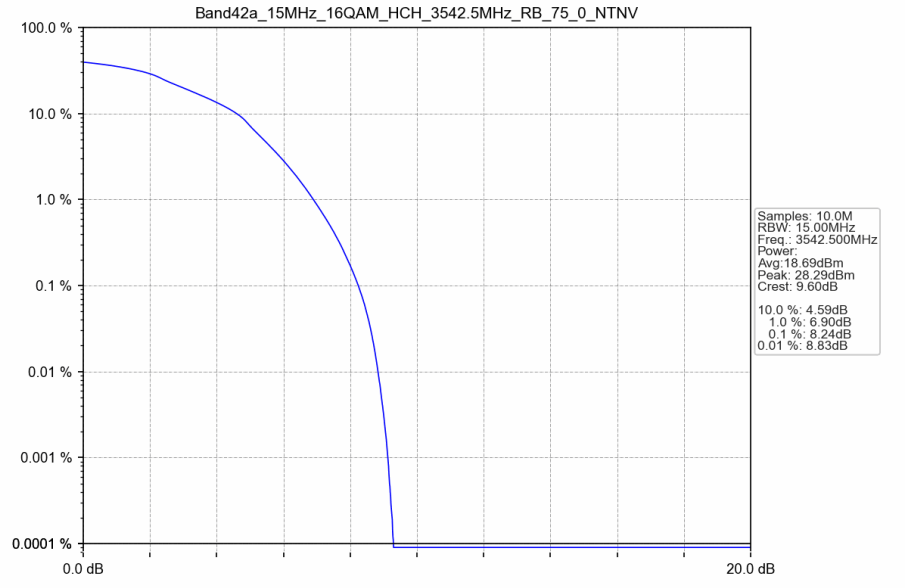
Band42a_15MHz_16QAM_LCH_3457.5MHz_RB_75_0_NTNV



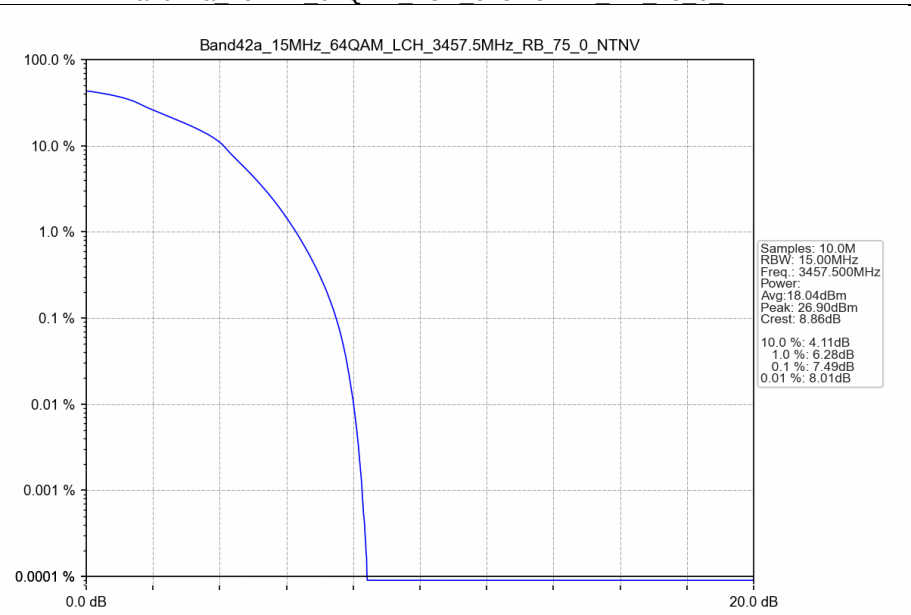
Band42a_15MHz_16QAM_MCH_3500MHz_RB_75_0_NTNV



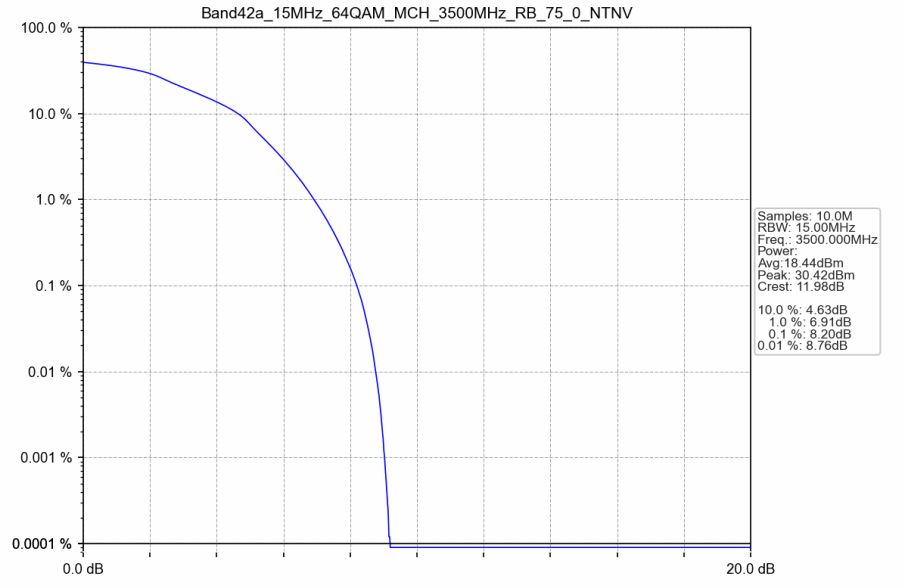
Band42a_15MHz_16QAM_HCH_3542.5MHz_RB_75_0_NTNV



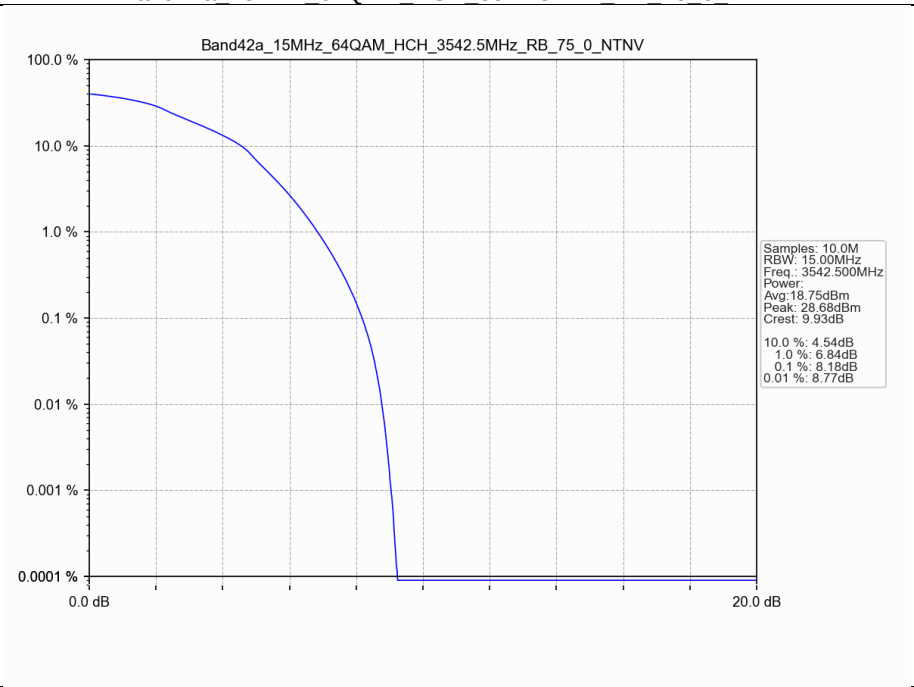
Band42a_15MHz_64QAM_LCH_3457.5MHz_RB_75_0_NTNV



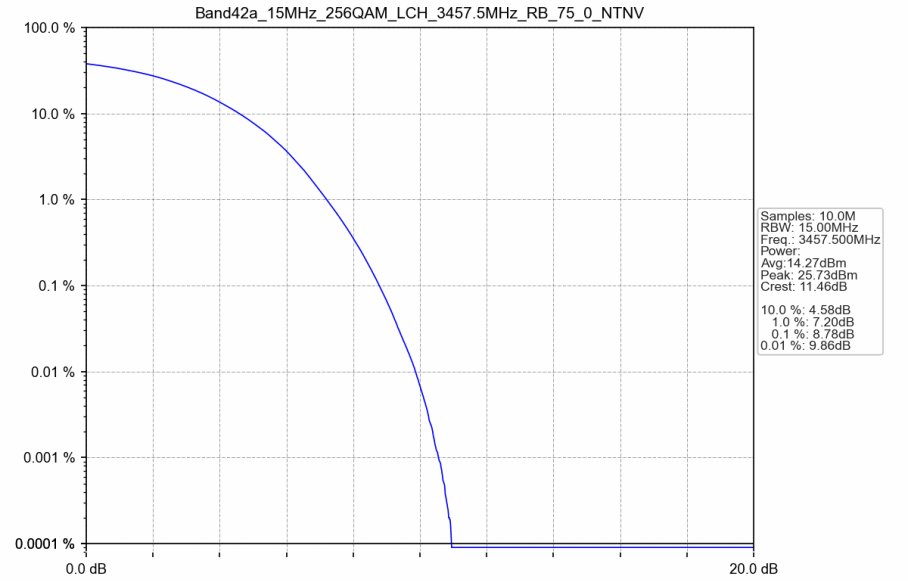
Band42a_15MHz_64QAM_MCH_3500MHz_RB_75_0_NTNV



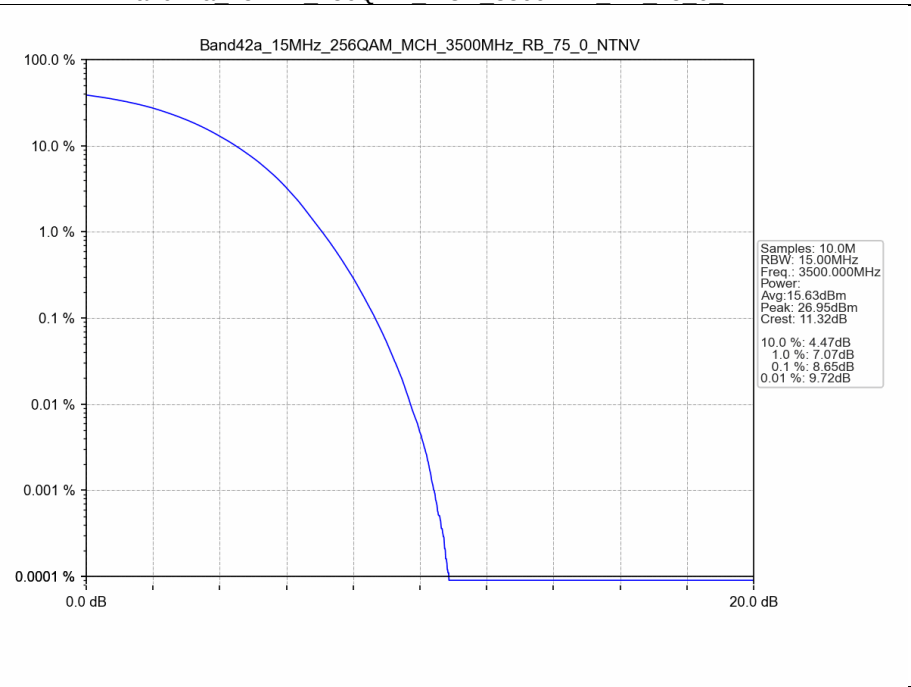
Band42a_15MHz_64QAM_HCH_3542.5MHz_RB_75_0_NTNV



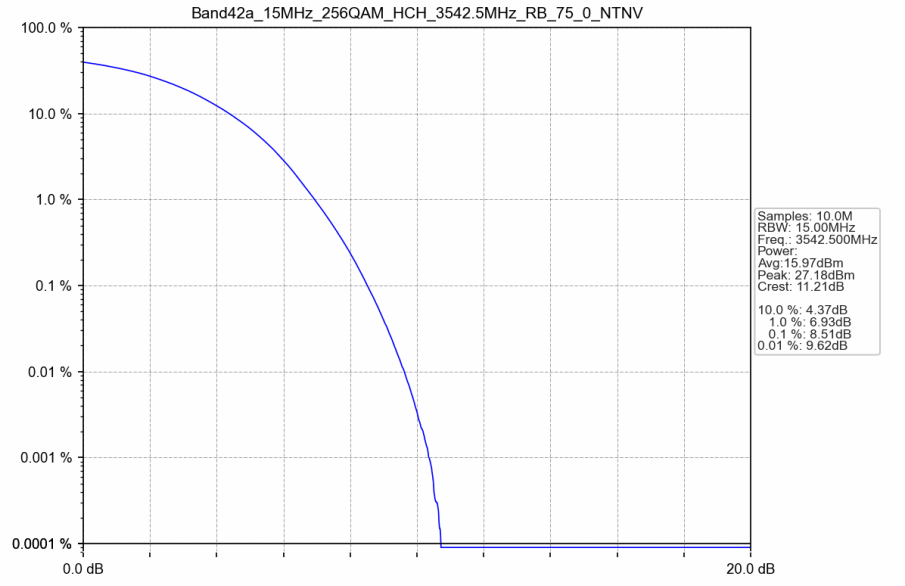
Band42a_15MHz_256QAM_LCH_3457.5MHz_RB_75_0_NTNV



Band42a_15MHz_256QAM_MCH_3500MHz_RB_75_0_NTNV

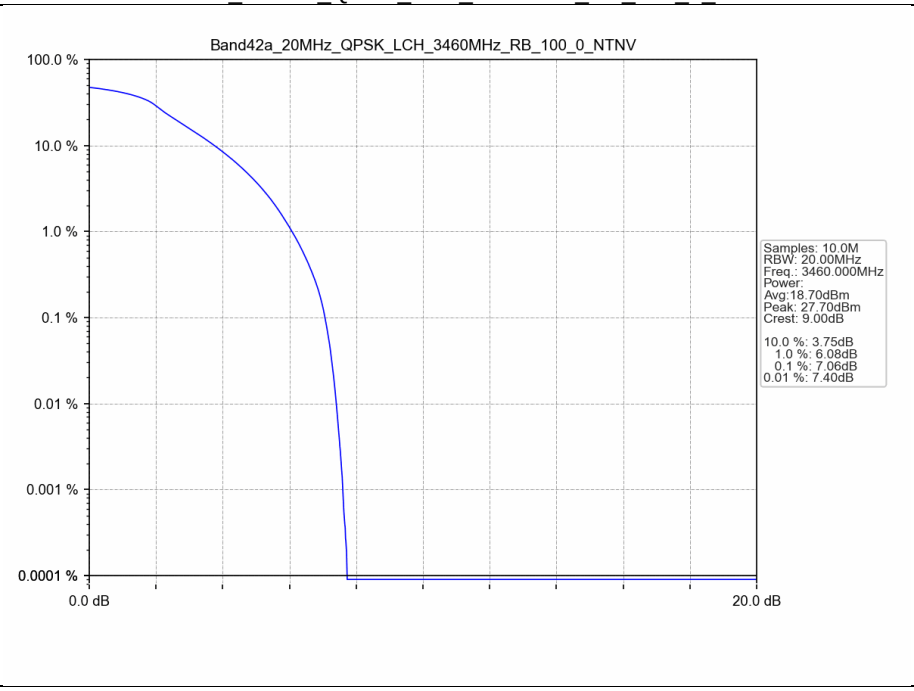


Band42a_15MHz_256QAM_HCH_3542.5MHz_RB_75_0_NTNV

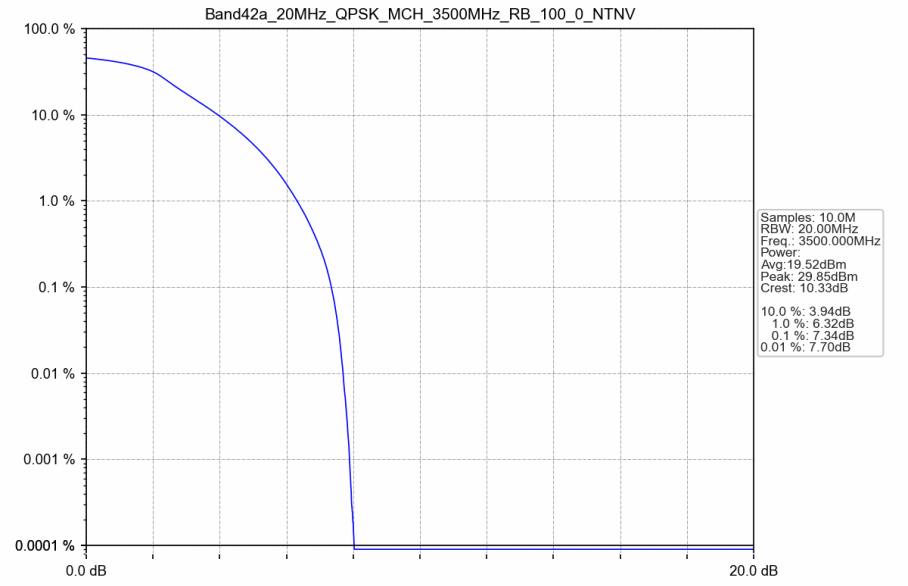


4.2.4 B42a_20MHz

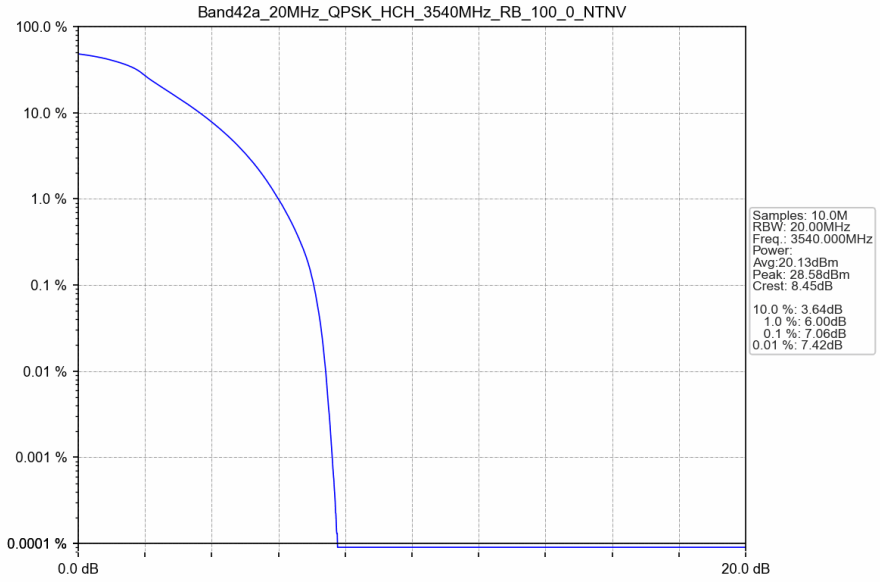
Band42a_20MHz_QPSK_LCH_3460MHz_RB_100_0_NTNV



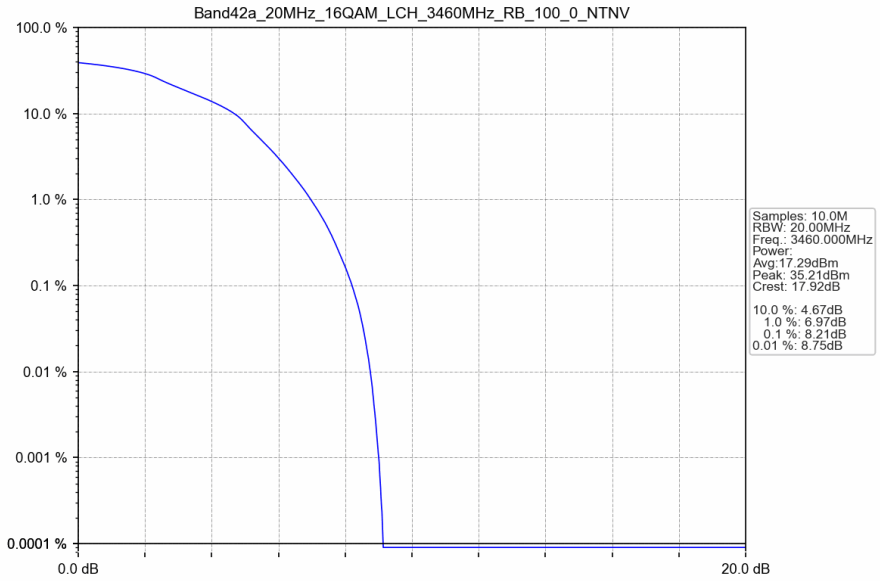
Band42a_20MHz_QPSK_MCH_3500MHz_RB_100_0_NTNV



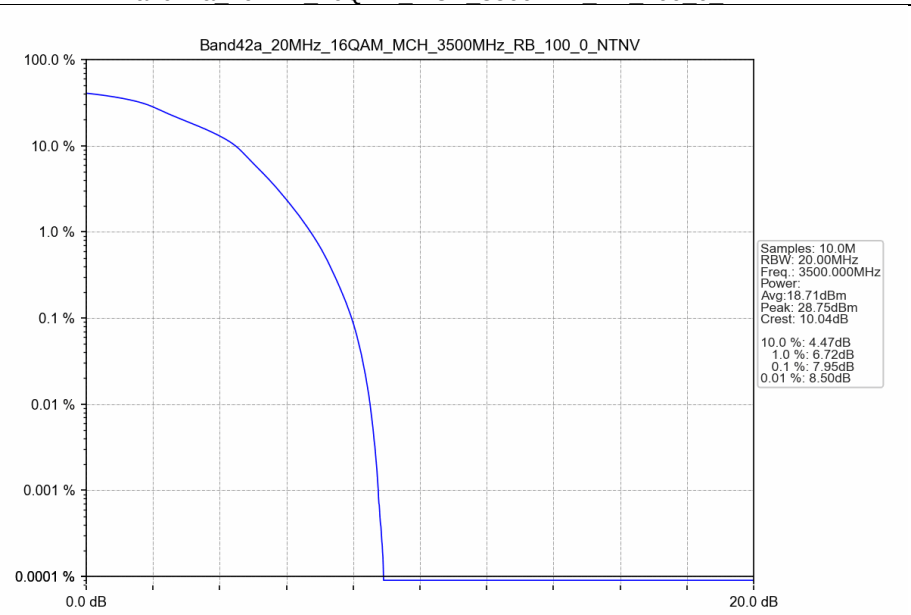
Band42a_20MHz_QPSK_HCH_3540MHz_RB_100_0_NTNV



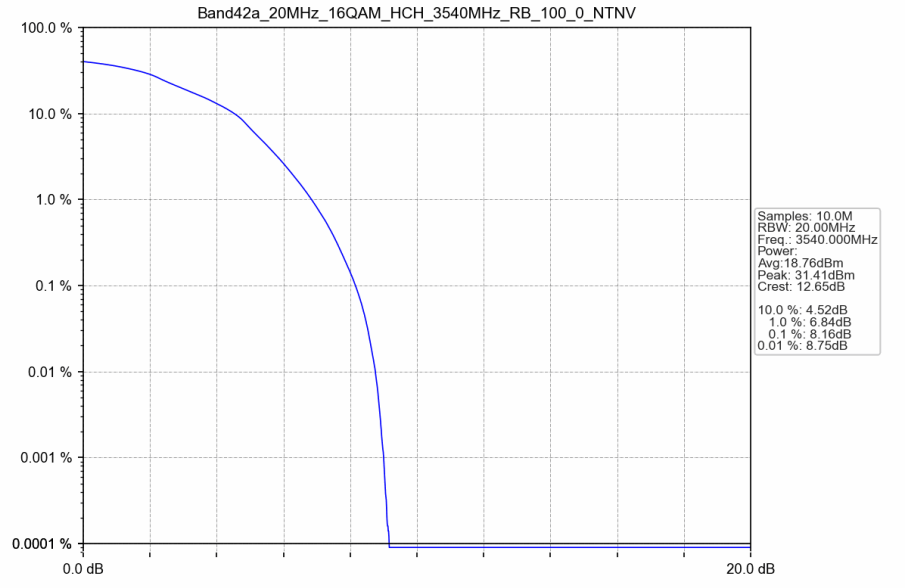
Band42a_20MHz_16QAM_LCH_3460MHz_RB_100_0_NTNV



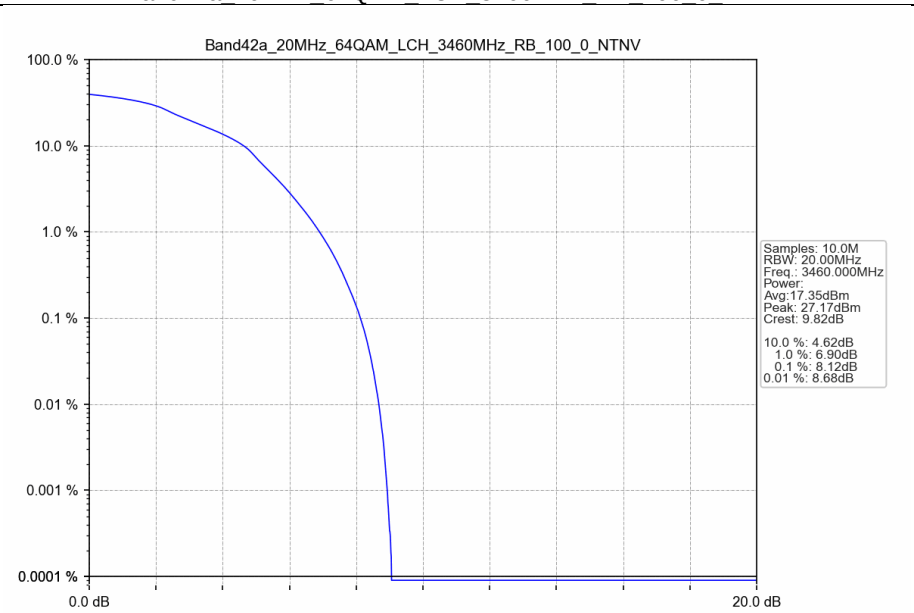
Band42a_20MHz_16QAM_MCH_3500MHz_RB_100_0_NTNV



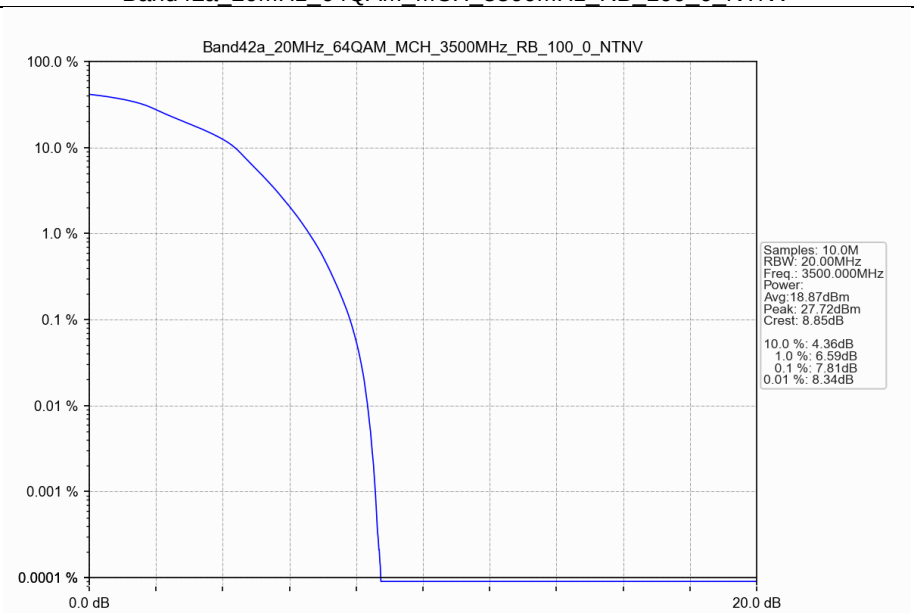
Band42a_20MHz_16QAM_HCH_3540MHz_RB_100_0_NTNV



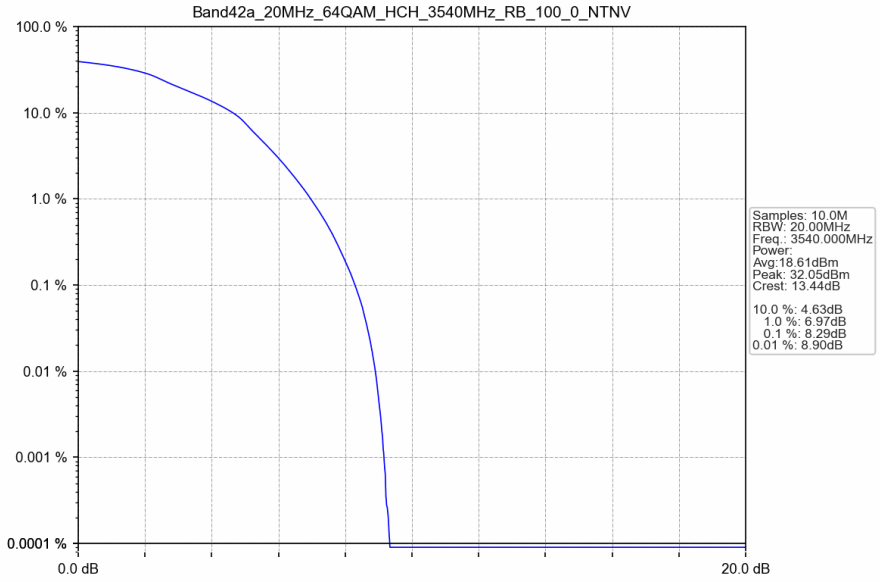
Band42a_20MHz_64QAM_LCH_3460MHz_RB_100_0_NTNV



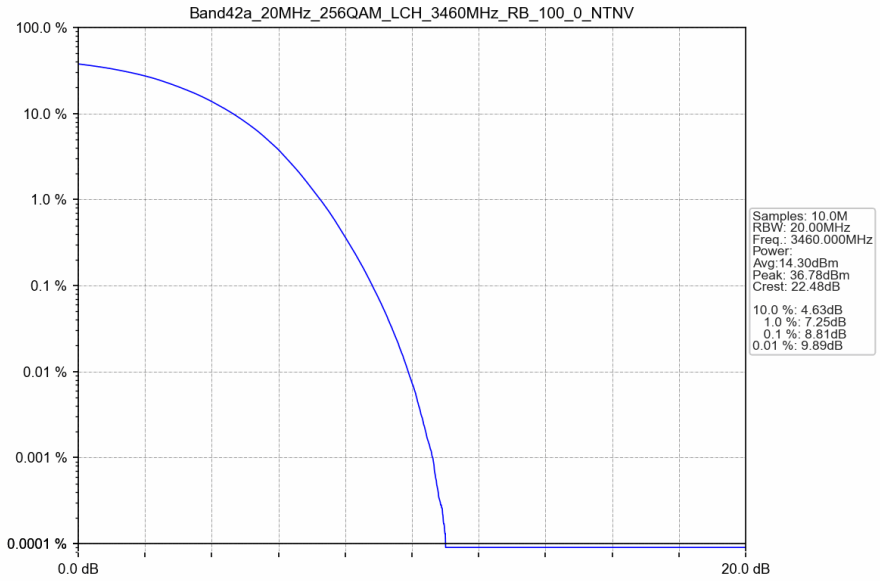
Band42a_20MHz_64QAM_MCH_3500MHz_RB_100_0_NTNV



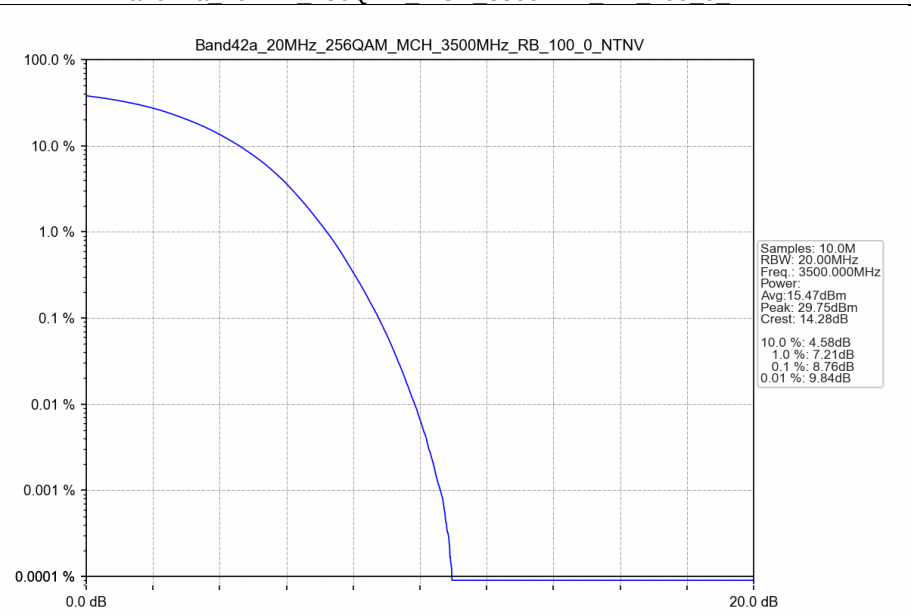
Band42a_20MHz_64QAM_HCH_3540MHz_RB_100_0_NTNV



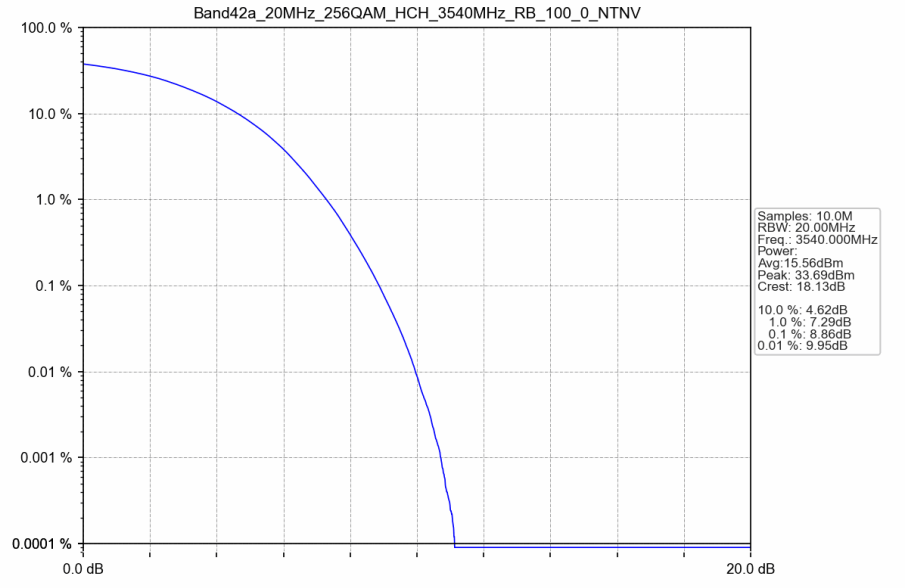
Band42a_20MHz_256QAM_LCH_3460MHz_RB_100_0_NTNV



Band42a_20MHz_256QAM_MCH_3500MHz_RB_100_0_NTNV



Band42a_20MHz_256QAM_HCH_3540MHz_RB_100_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B42a_5MHz

Band: 42a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3452.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3547.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B42a_10MHz

Band: 42a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3455	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3545	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B42a_15MHz

Band: 42a / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3457.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3542.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

5.1.4 B42a_20MHz

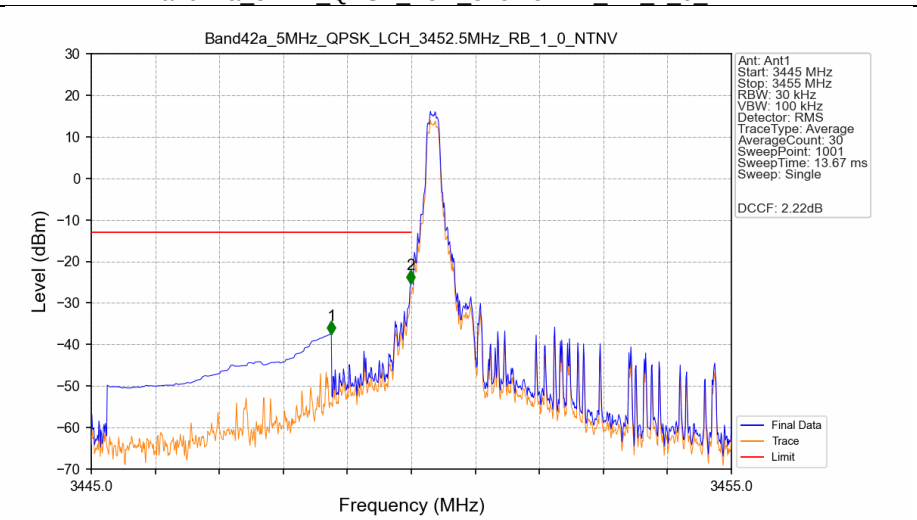
Band: 42a / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3460	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass

	3540	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass

5.2 Test Graph

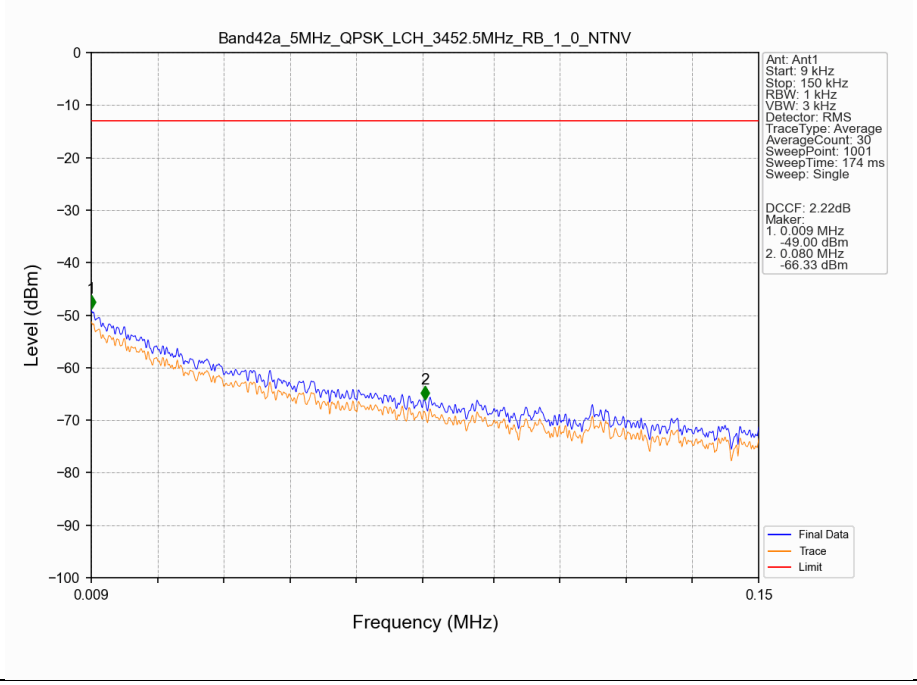
5.2.1 B42a_5MHz

Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV

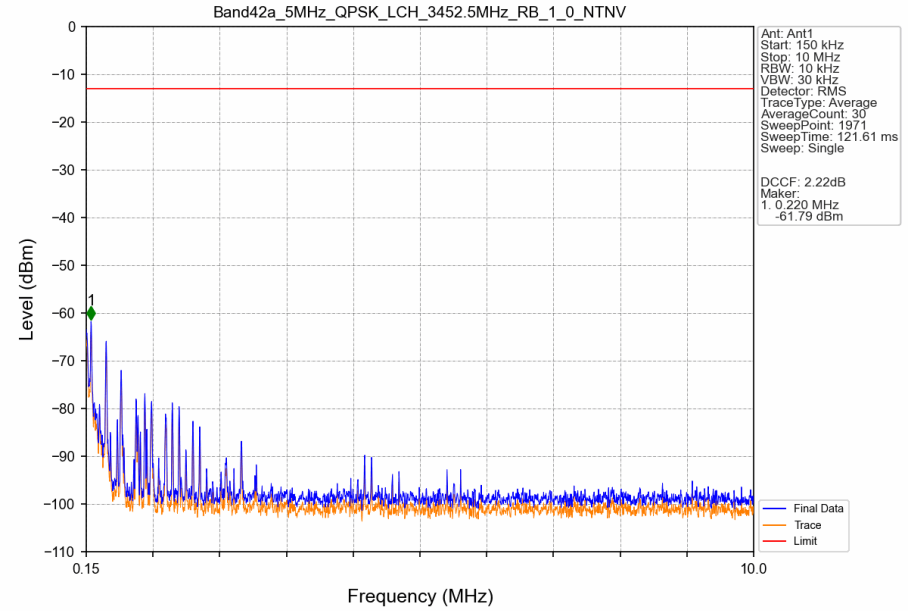


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3449	0.5	CHP	1	3448.750	-37.49	-13	Pass
3449	3450	0.03	/	2	3449.990	-25.26	-13	Pass
3450	3455	0.03	/	/	/	/	/	/

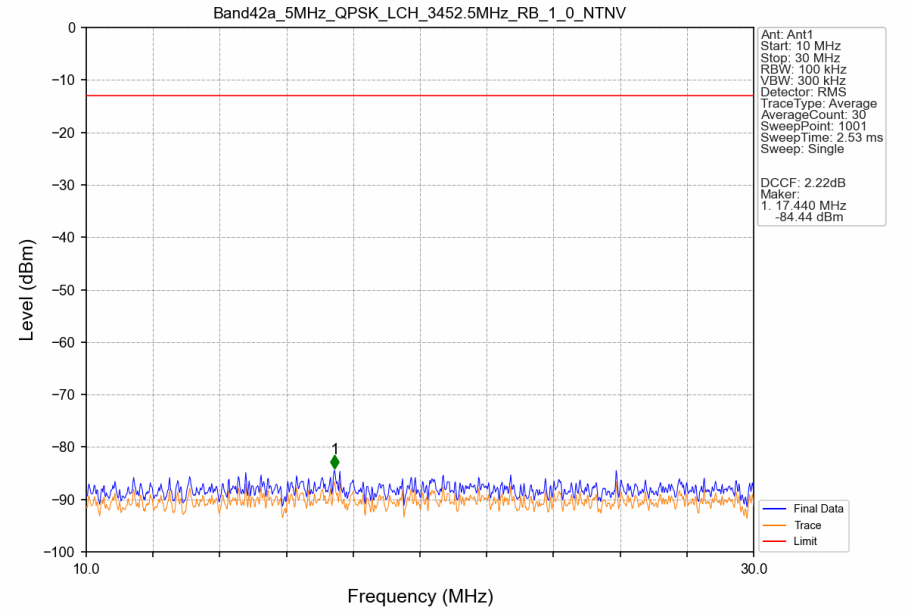
Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



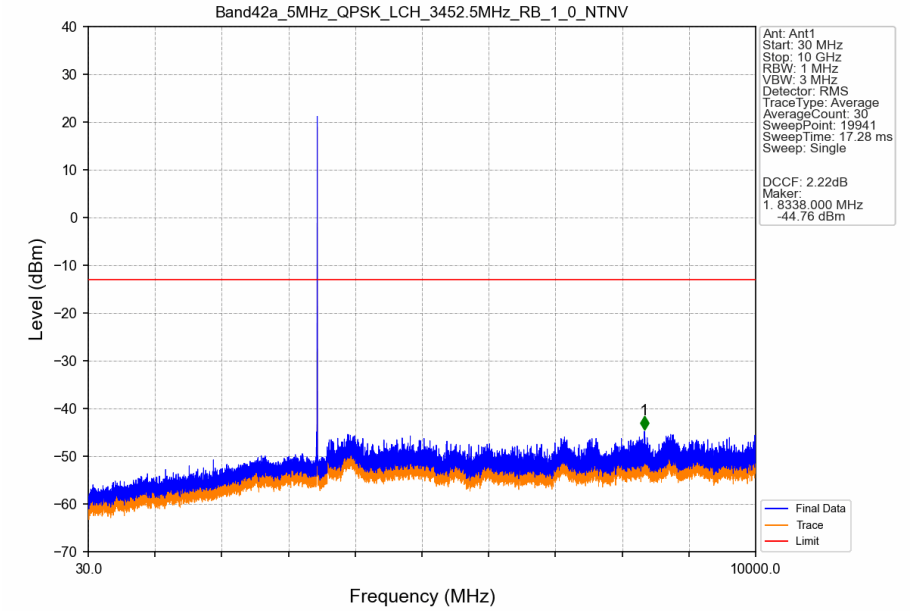
Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



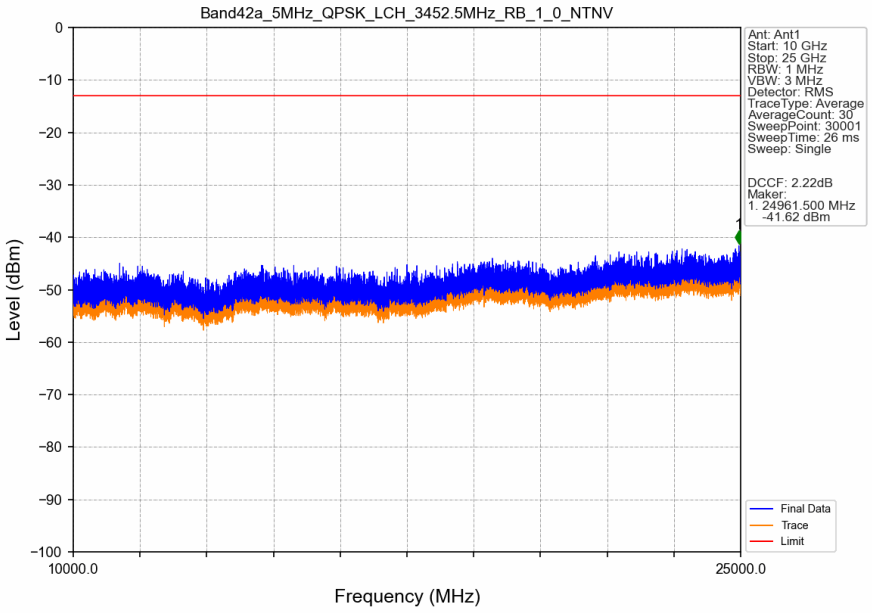
Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



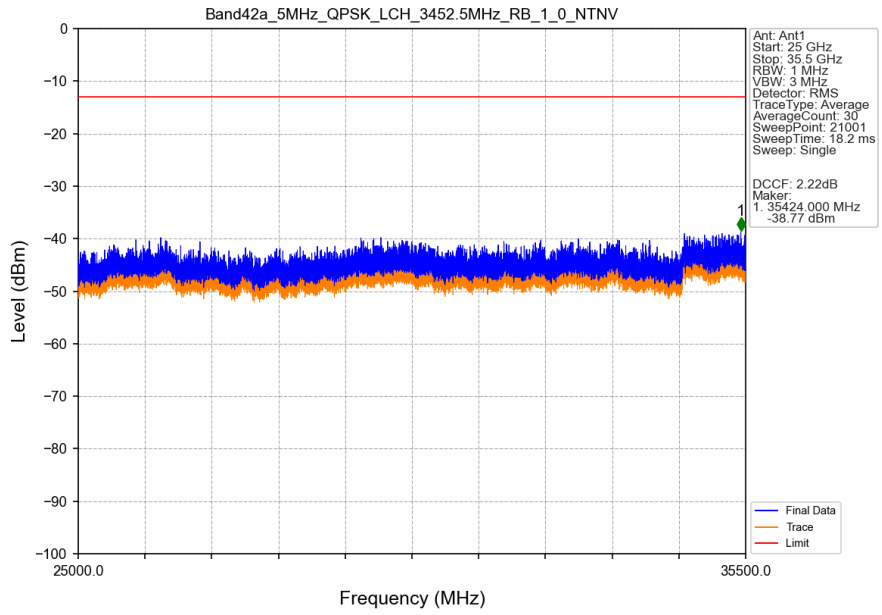
Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



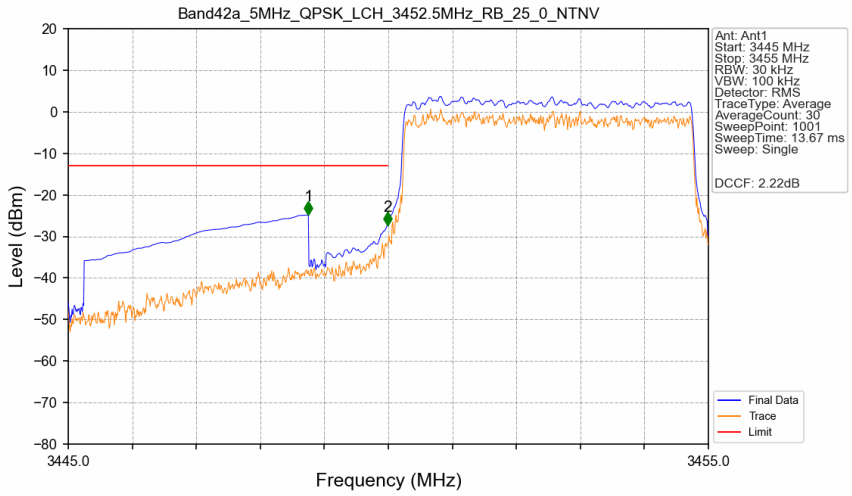
Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV

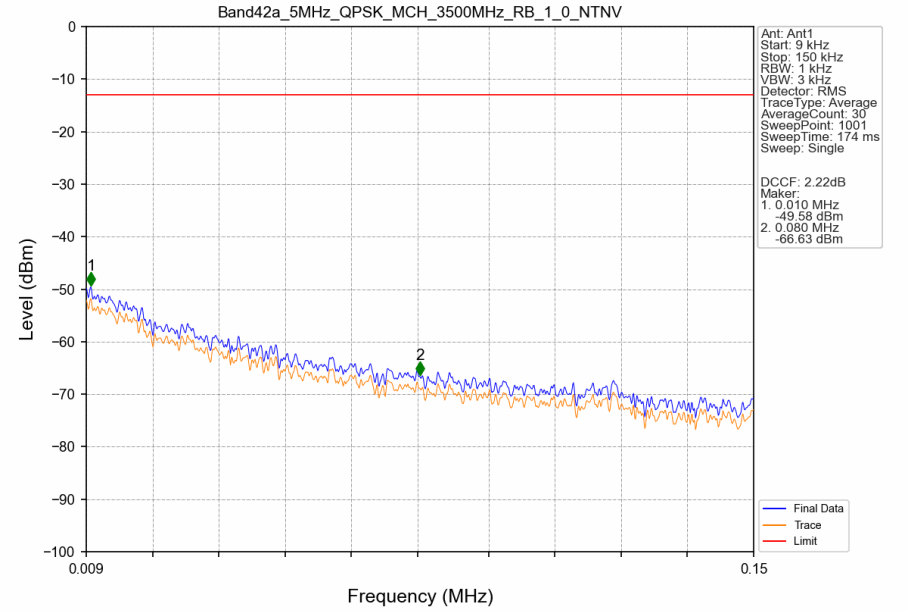


Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_25_0_NTNV

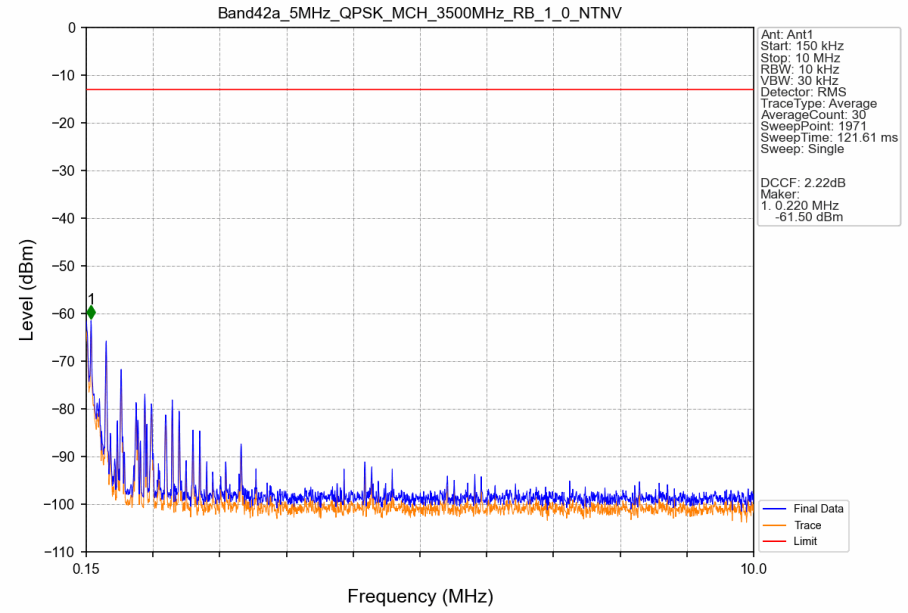


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3449	0.5	CHP	1	3448.750	-24.84	-13	Pass
3449	3450	0.052	CHP	2	3449.990	-27.23	-13	Pass
3450	3455	0.052	CHP	/	/	/	/	/

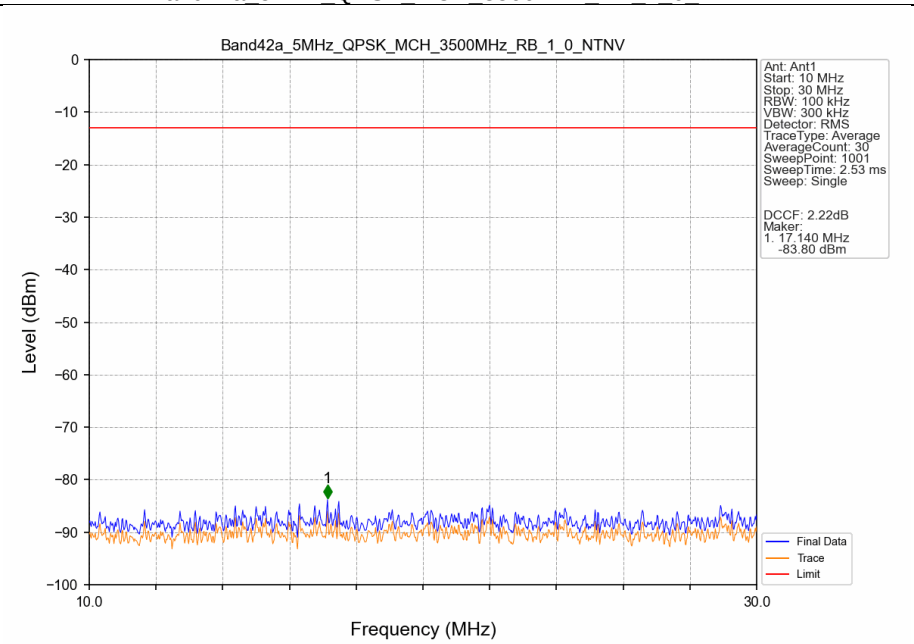
Band42a_5MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



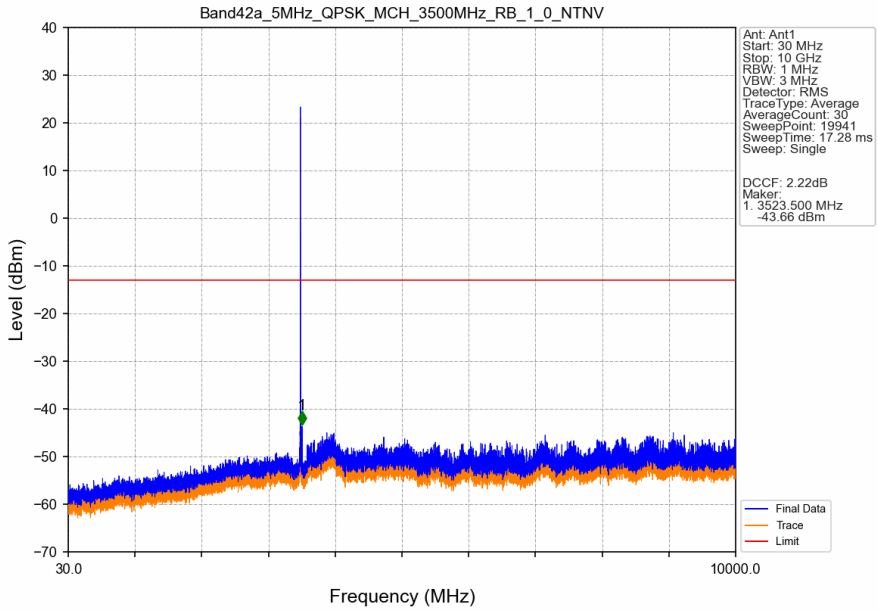
Band42a_5MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



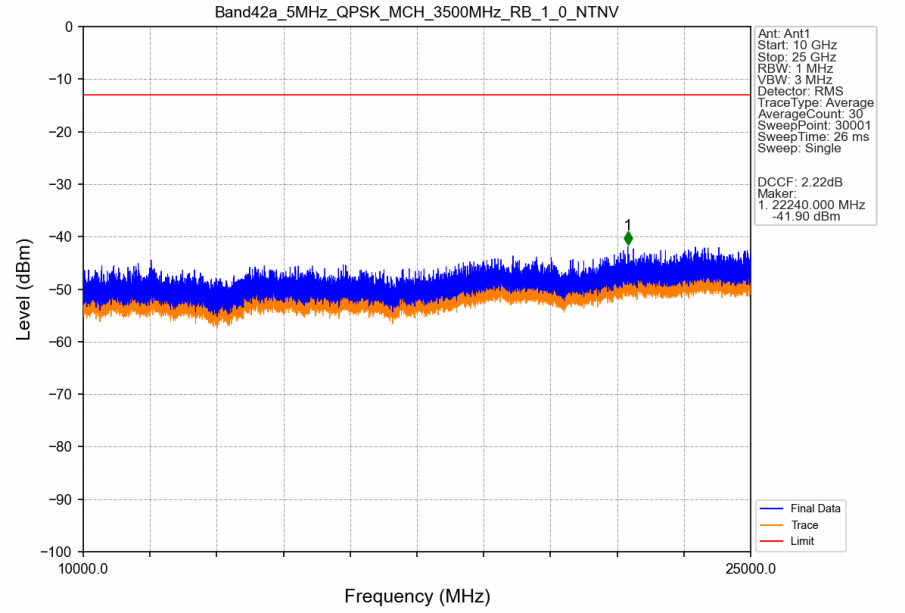
Band42a_5MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



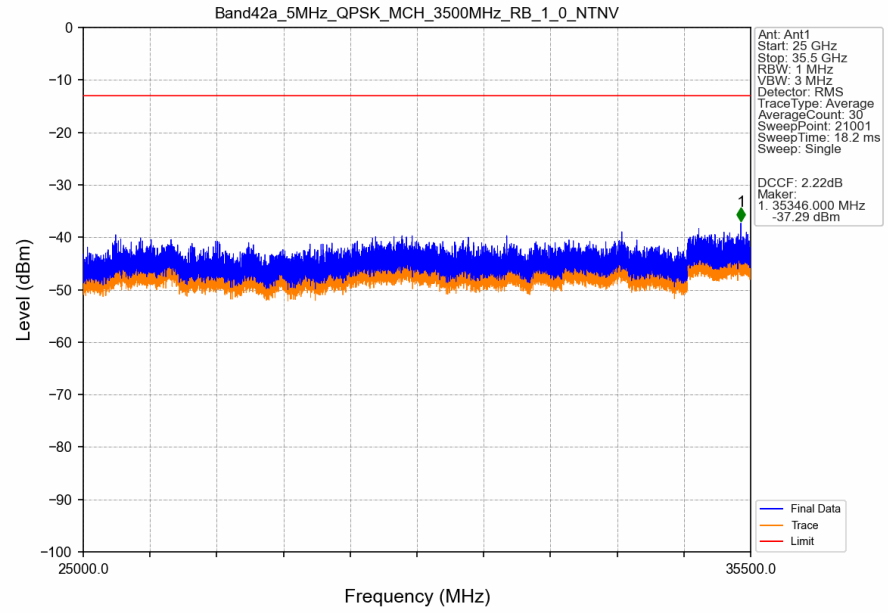
Band42a_5MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



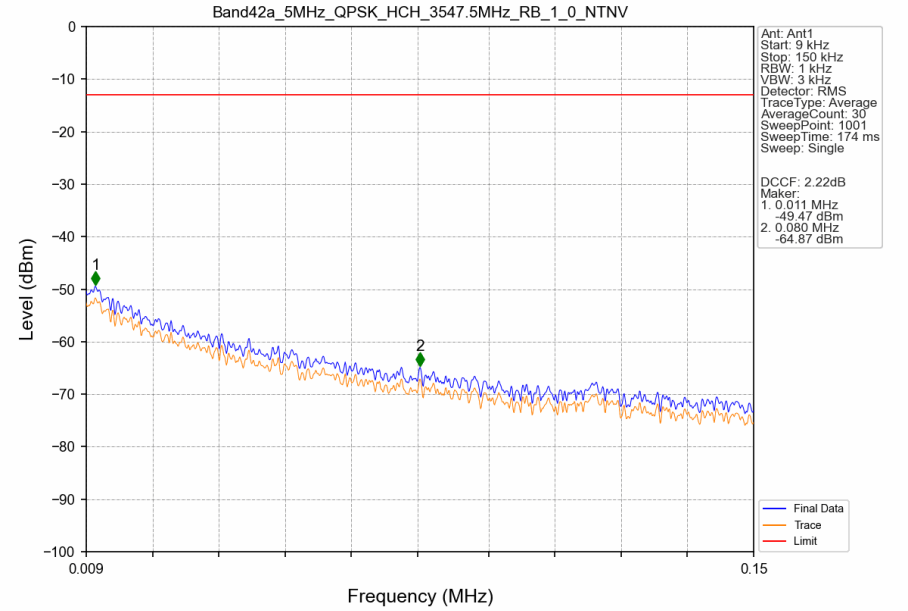
Band42a_5MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



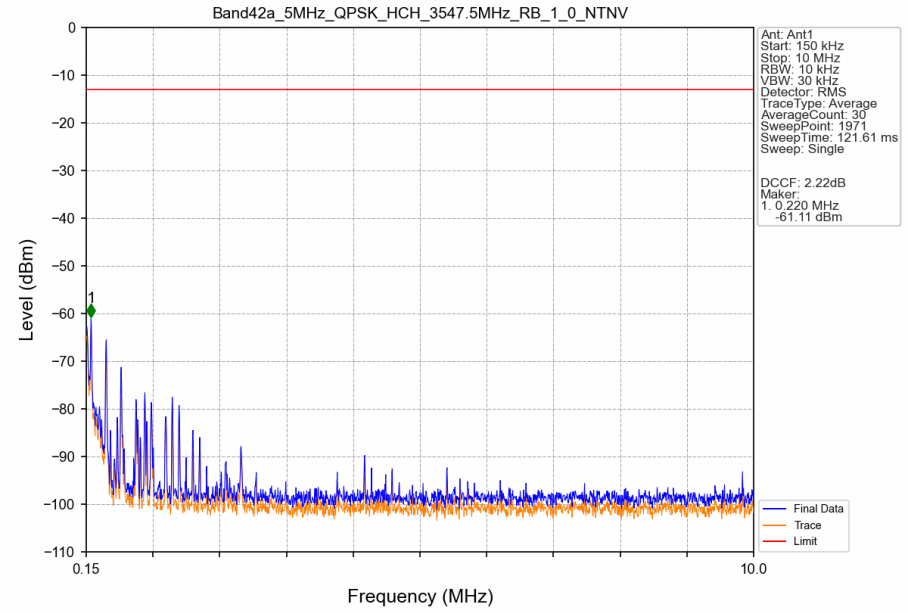
Band42a_5MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



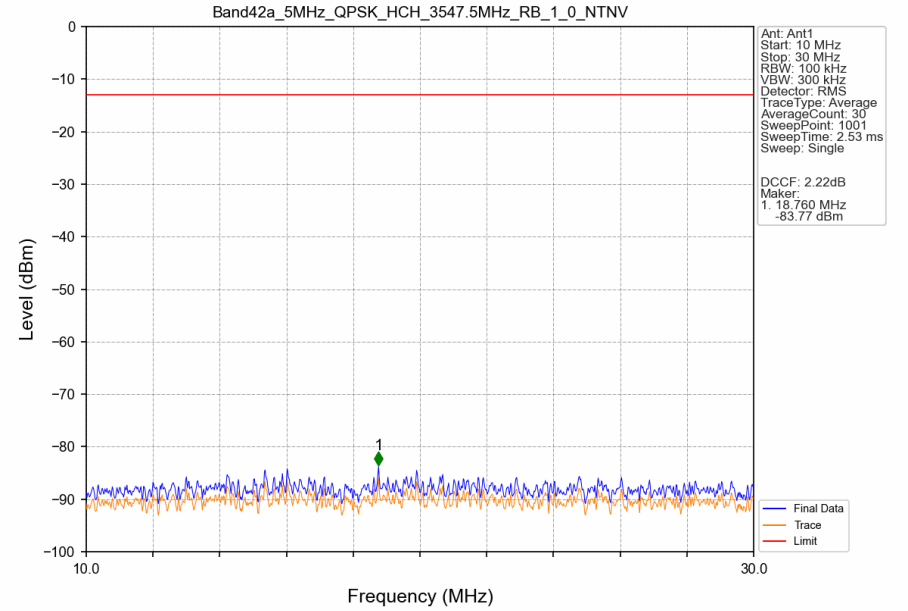
Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_1_0_NTNV



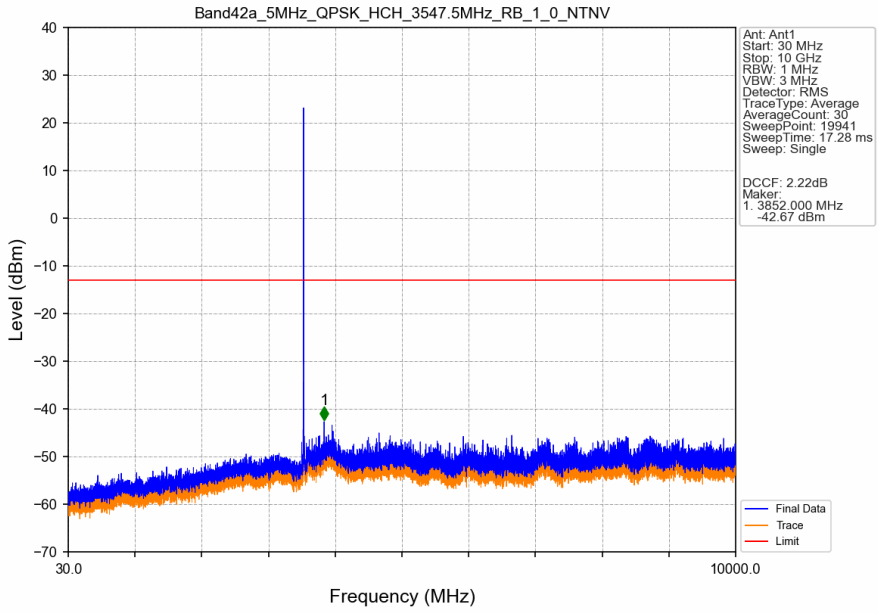
Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_1_0_NTNV



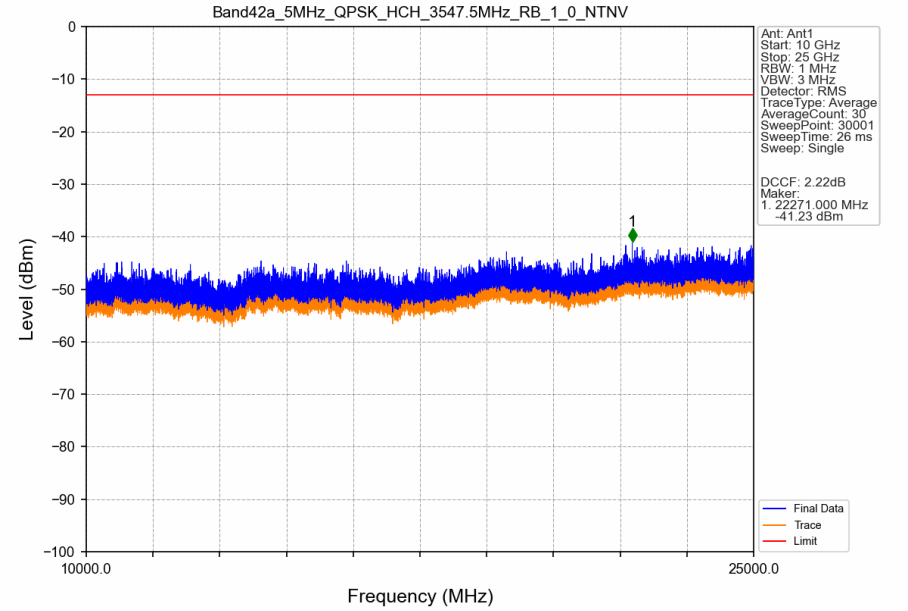
Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_1_0_NTNV



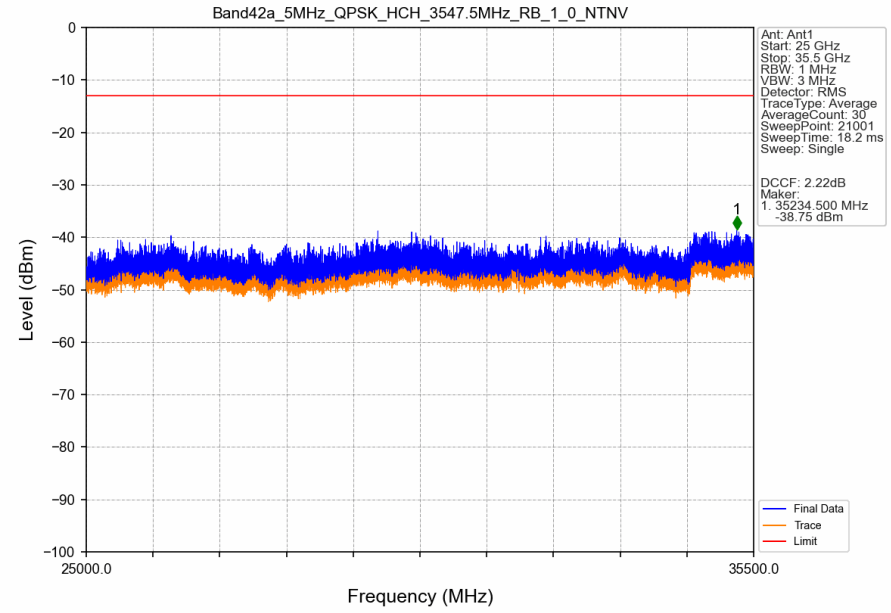
Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_1_0_NTNV



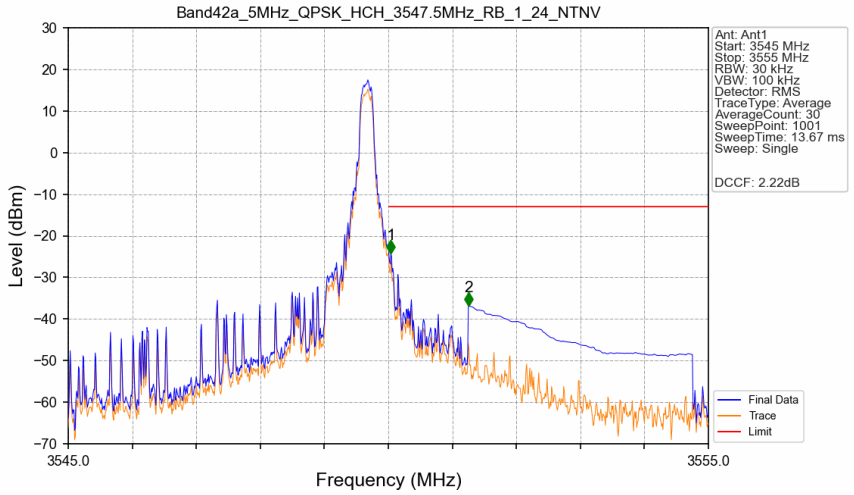
Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_1_0_NTNV



Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_1_0_NTNV

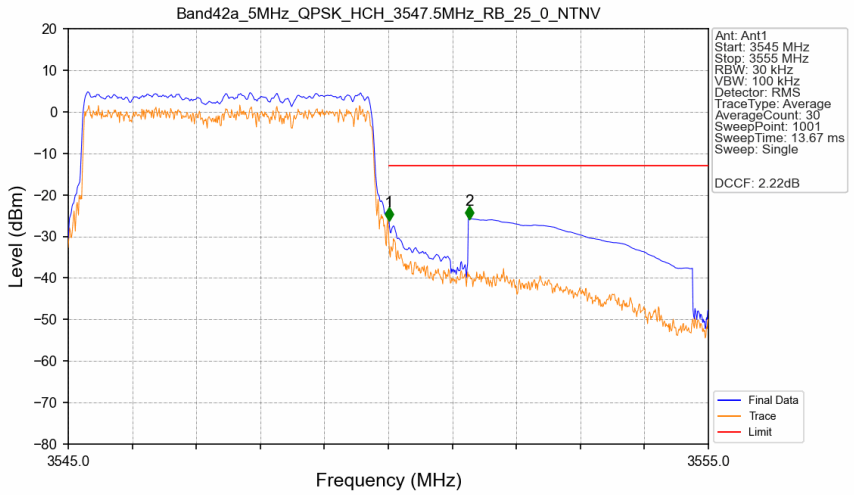


Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3545	3550	0.03	/	/	/	/	/	/
3550	3551	0.03	/	1	3550.040	-24.21	-13	Pass
3551	3555	0.5	CHP	2	3551.250	-36.71	-13	Pass

Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3545	3550	0.052	CHP	/	/	/	/	/
3550	3551	0.052	CHP	1	3550.010	-26.21	-13	Pass
3551	3555	0.5	CHP	2	3551.270	-25.80	-13	Pass