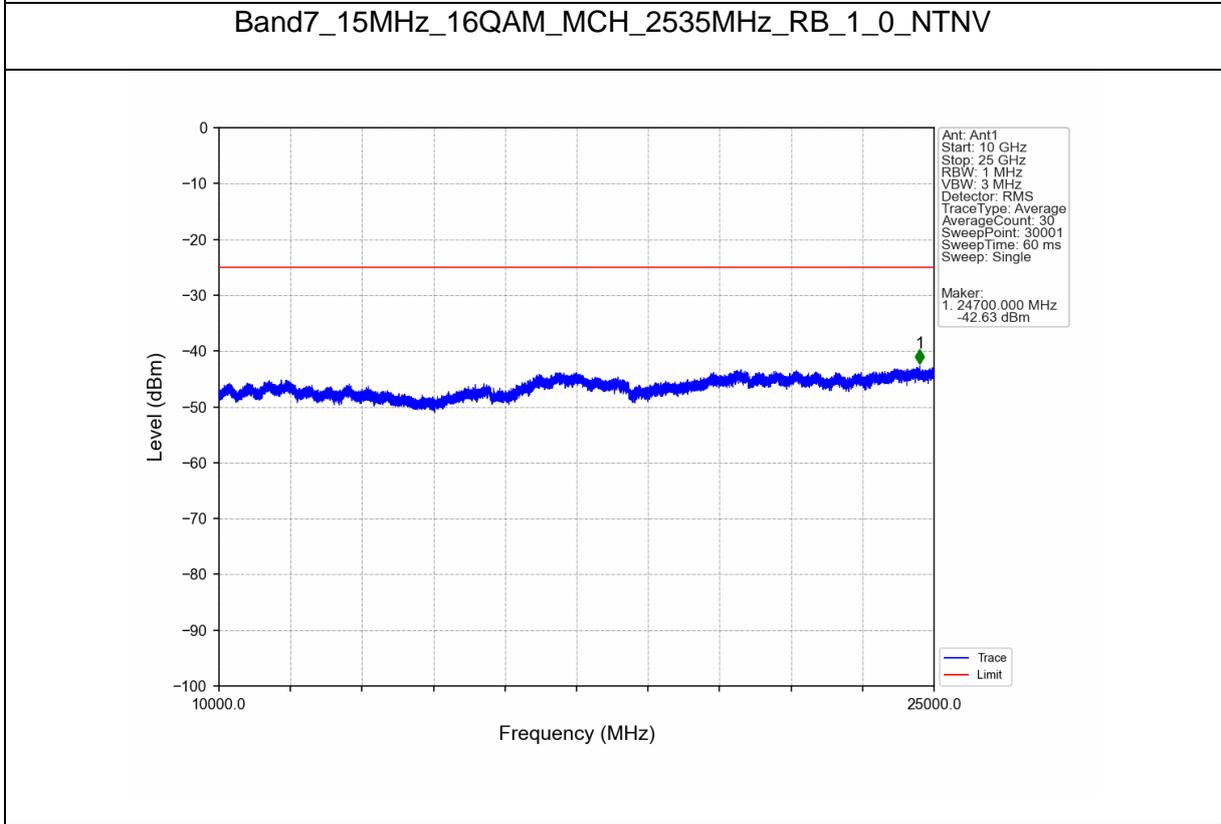
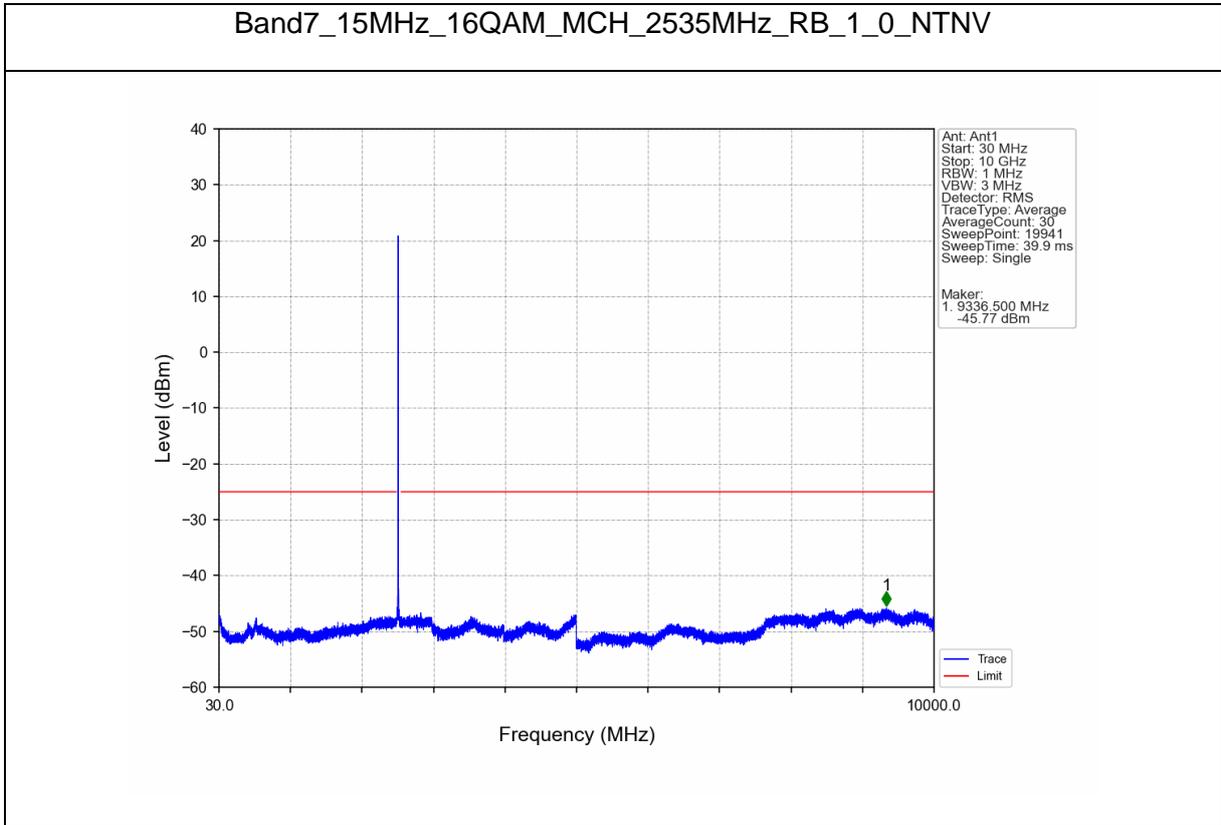
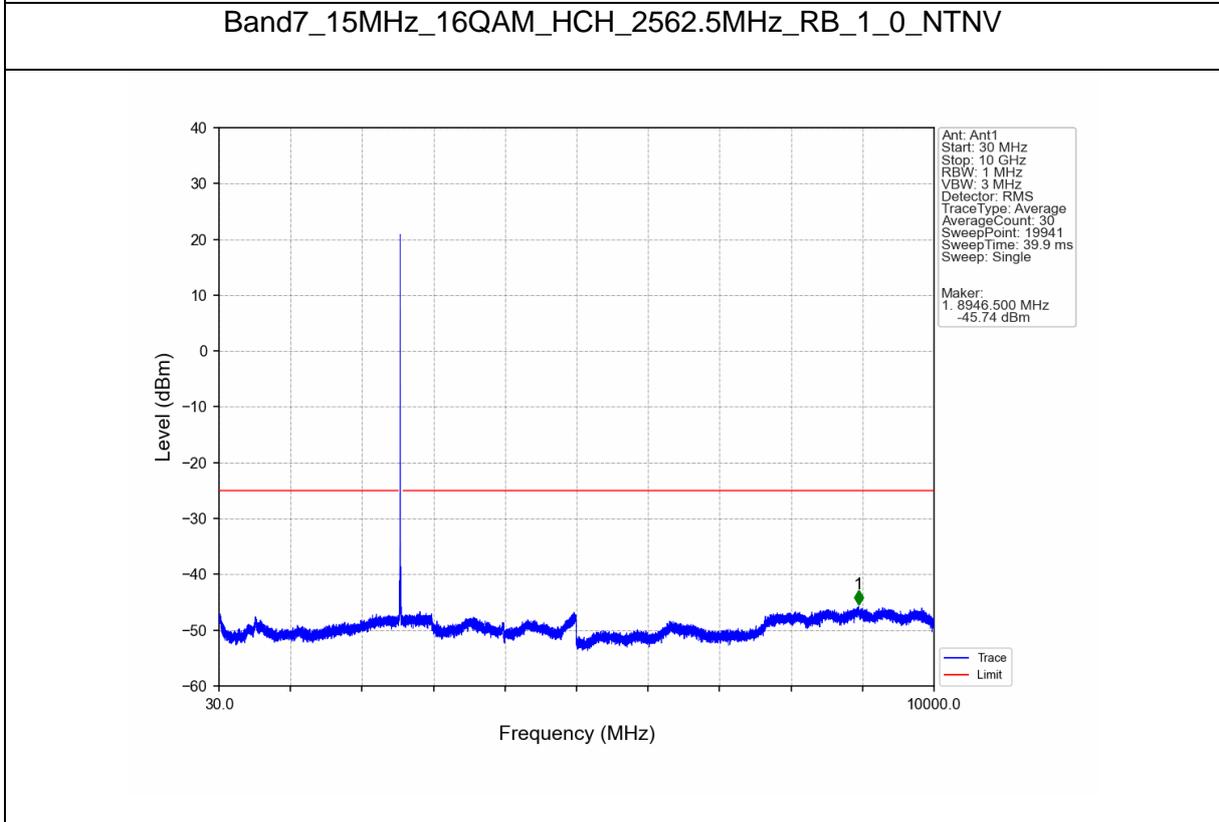
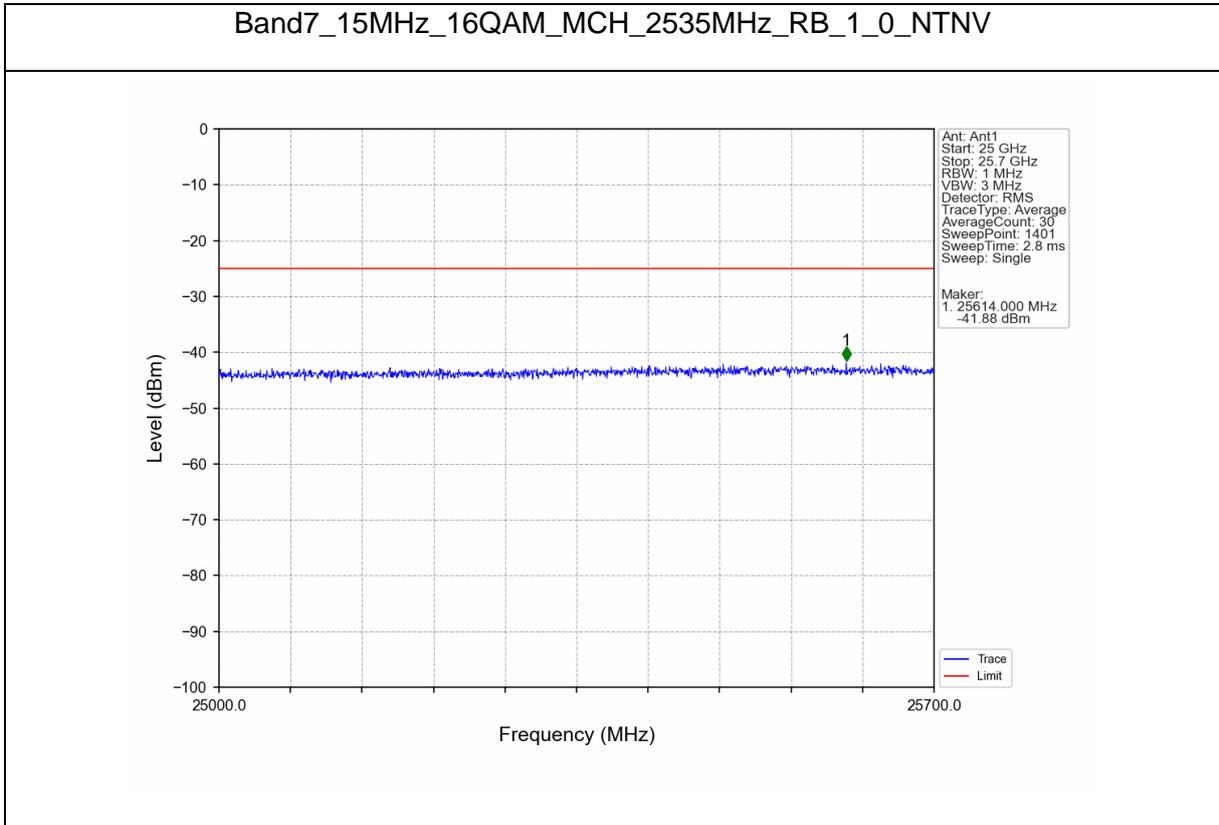




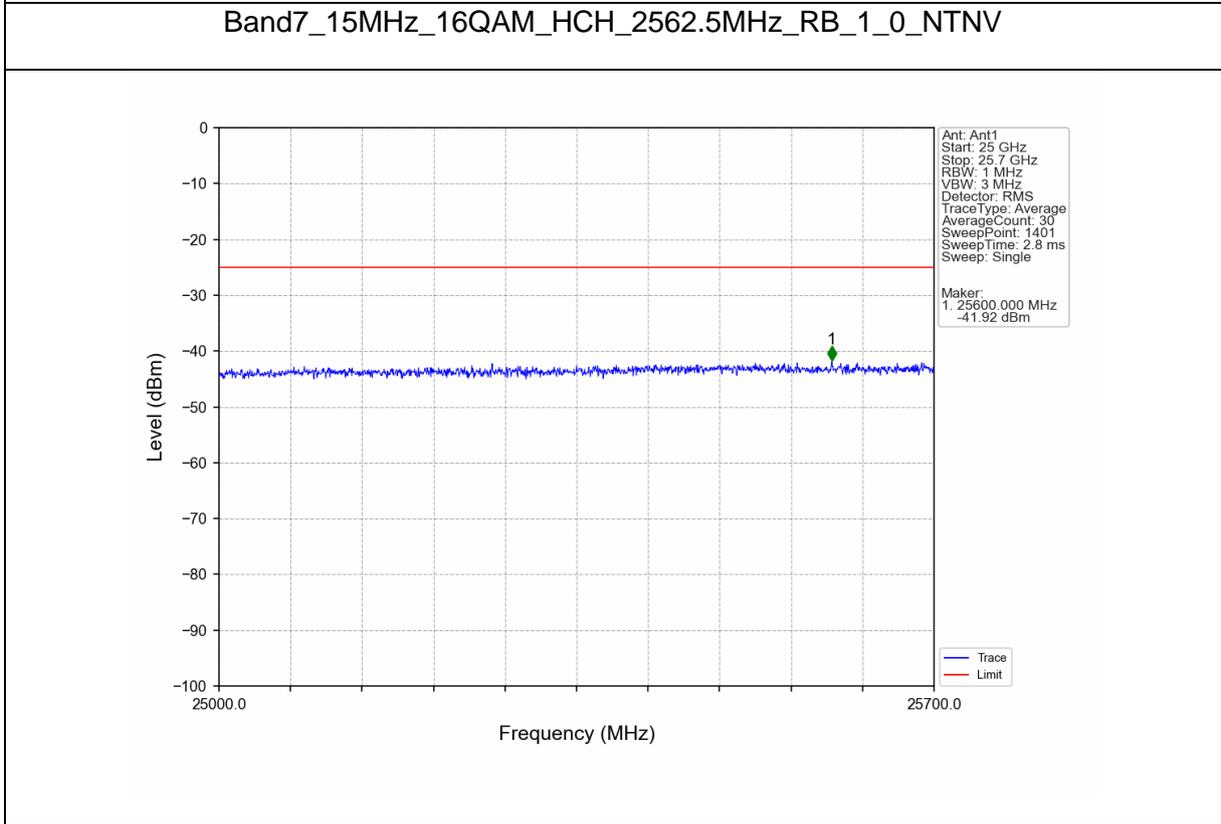
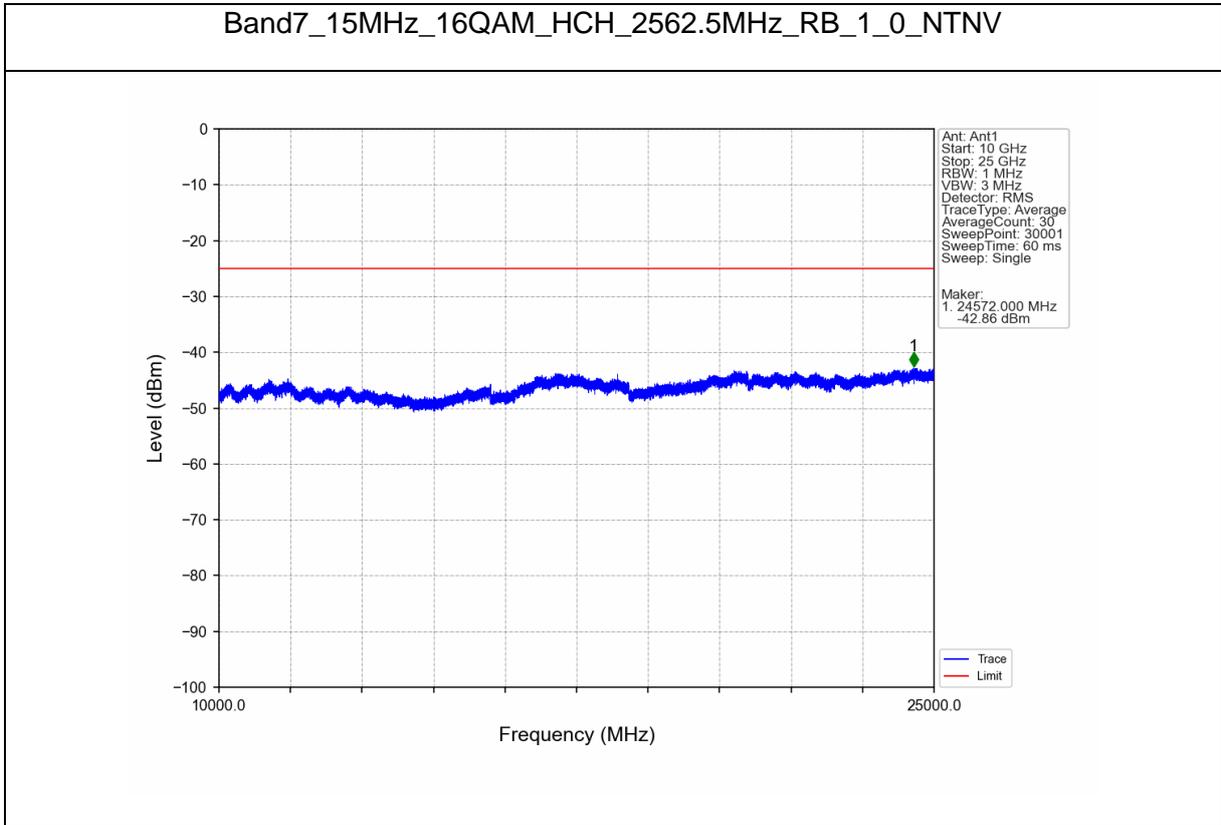
Test Report No.: PSU-NQN2504150110RF04



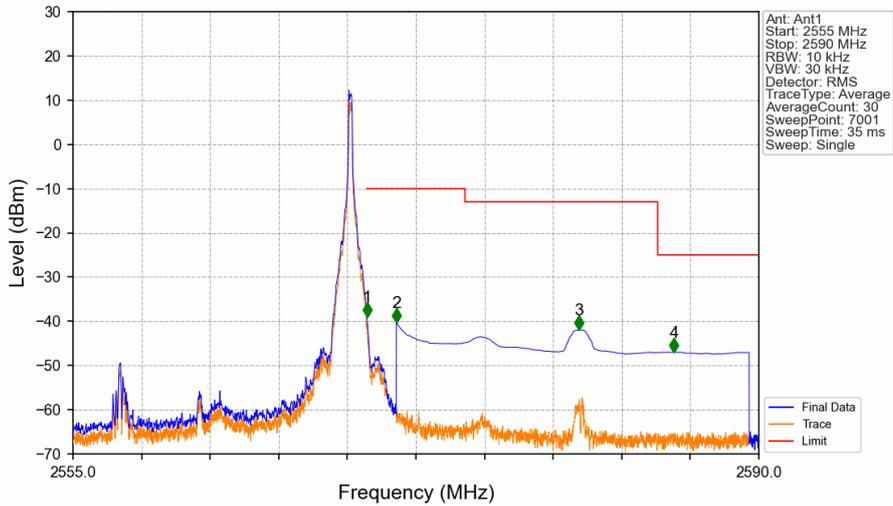




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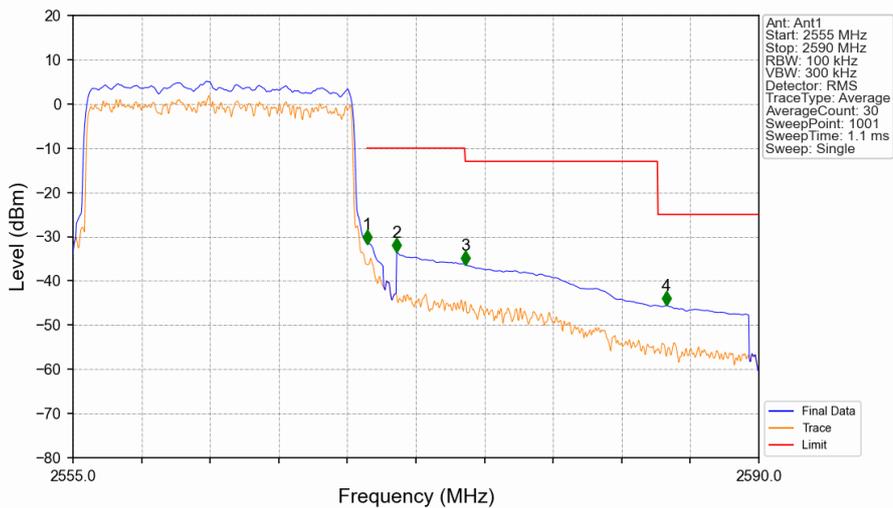


Band7_15MHz_16QAM_HCH_2562.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-39.03	-10	Pass
2571	2575	1	CHP	2	2571.500	-40.25	-10	Pass
2575	2584.837	1	CHP	3	2580.810	-41.96	-13	Pass
2584.837	2590	1	CHP	4	2585.660	-46.95	-25	Pass

Band7_15MHz_16QAM_HCH_2562.5MHz_RB_75_0_NTNV

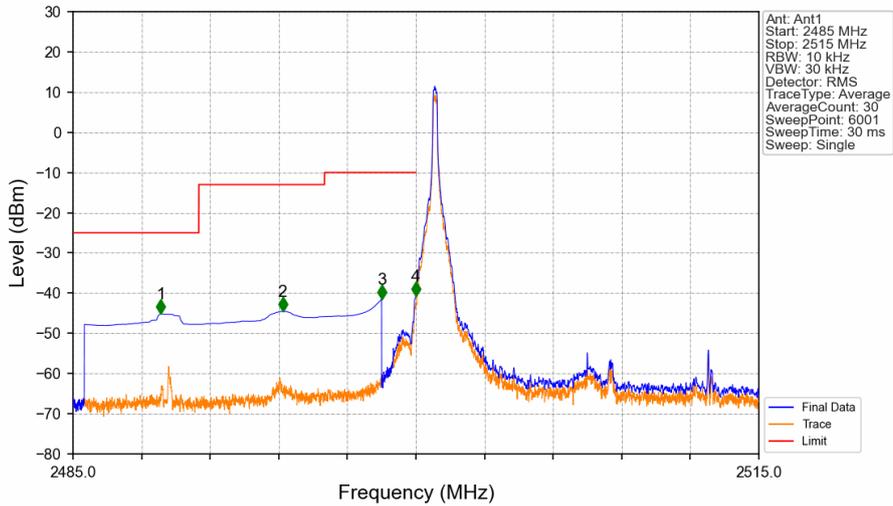


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.297	CHP	/	/	/	/	/
2570	2571	0.297	CHP	1	2570.015	-31.63	-10	Pass
2571	2575	1	CHP	2	2571.520	-33.48	-10	Pass
2575	2584.837	1	CHP	3	2575.020	-36.33	-13	Pass
2584.837	2590	1	CHP	4	2585.275	-45.60	-25	Pass



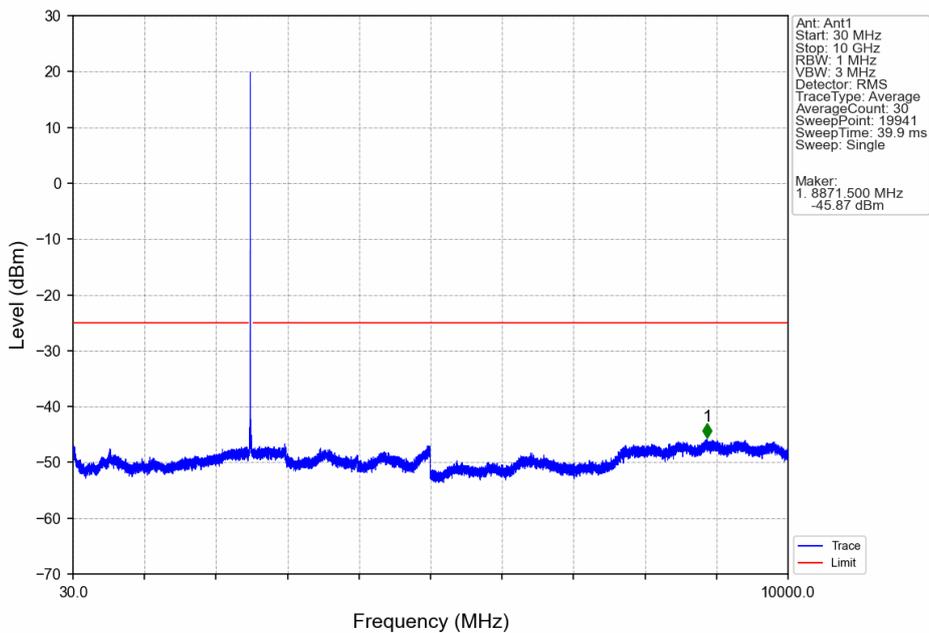
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Band7_15MHz_64QAM_LCH_2507.5MHz_RB_1_0_NTNV



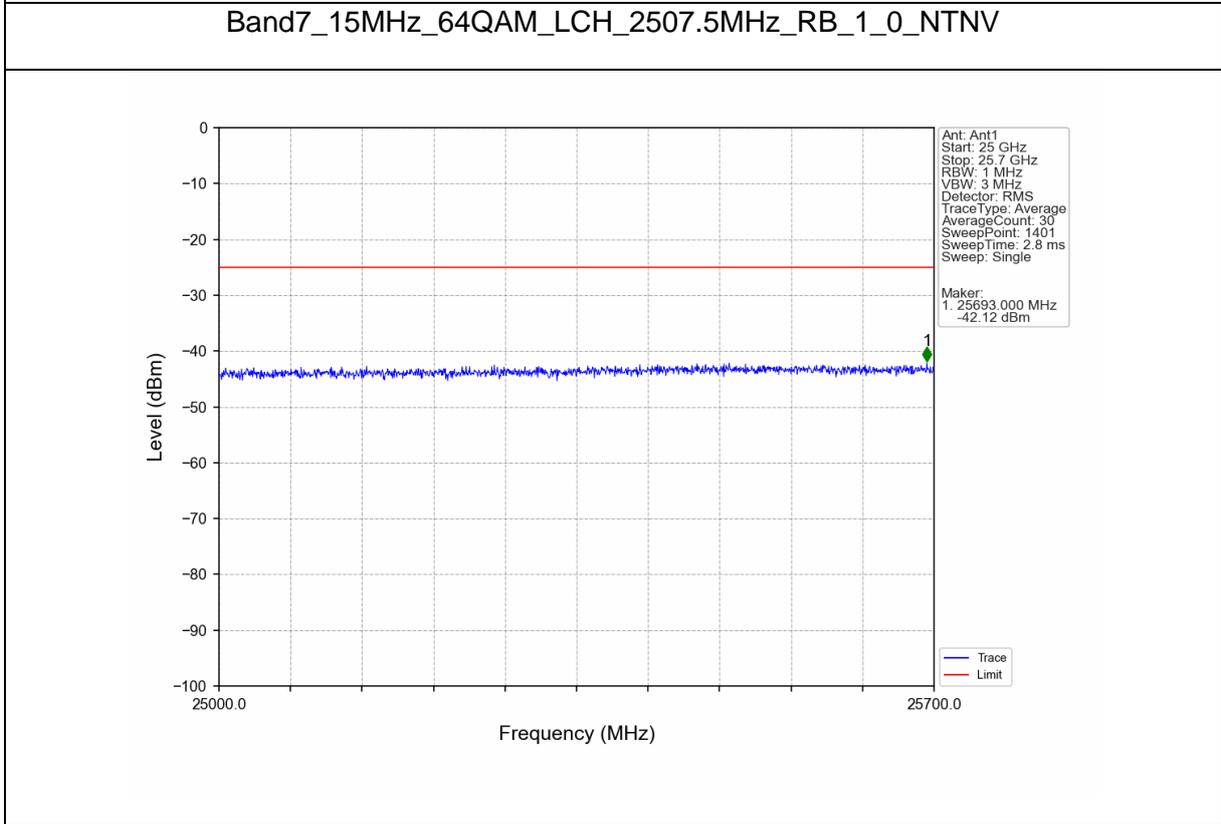
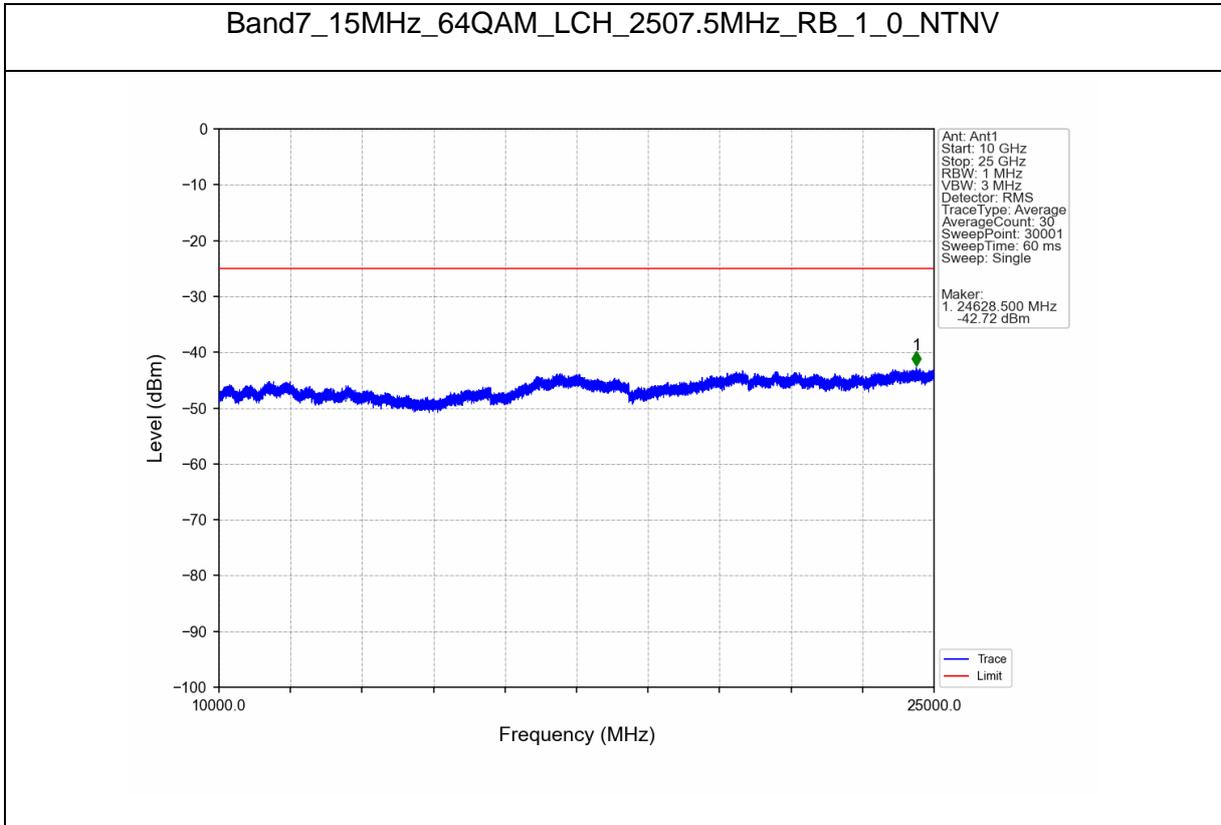
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.845	-45.16	-25	Pass
2490.5	2496	1	CHP	2	2494.170	-44.54	-13	Pass
2496	2499	1	CHP	3	2498.500	-41.39	-10	Pass
2499	2500	0.02	CHP	4	2499.990	-40.59	-10	Pass
2500	2515	0.02	CHP	/	/	/	/	/

Band7_15MHz_64QAM_LCH_2507.5MHz_RB_1_0_NTNV

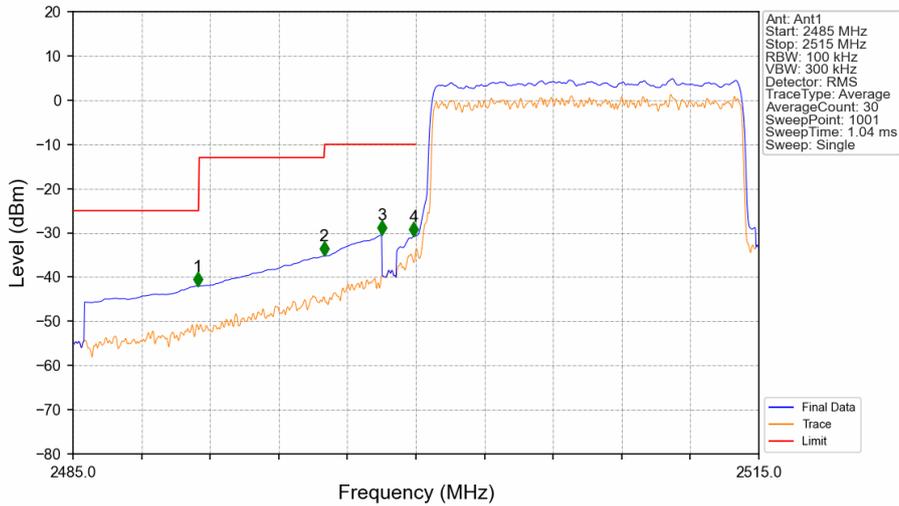




Test Report No.: PSU-NQN2504150110RF04

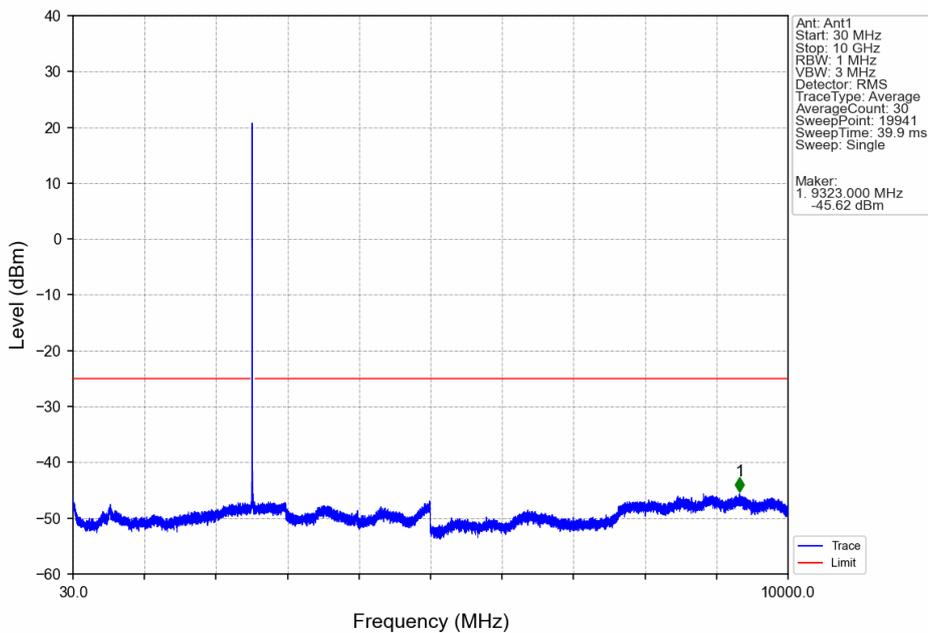


Band7_15MHz_64QAM_LCH_2507.5MHz_RB_75_0_NTNV



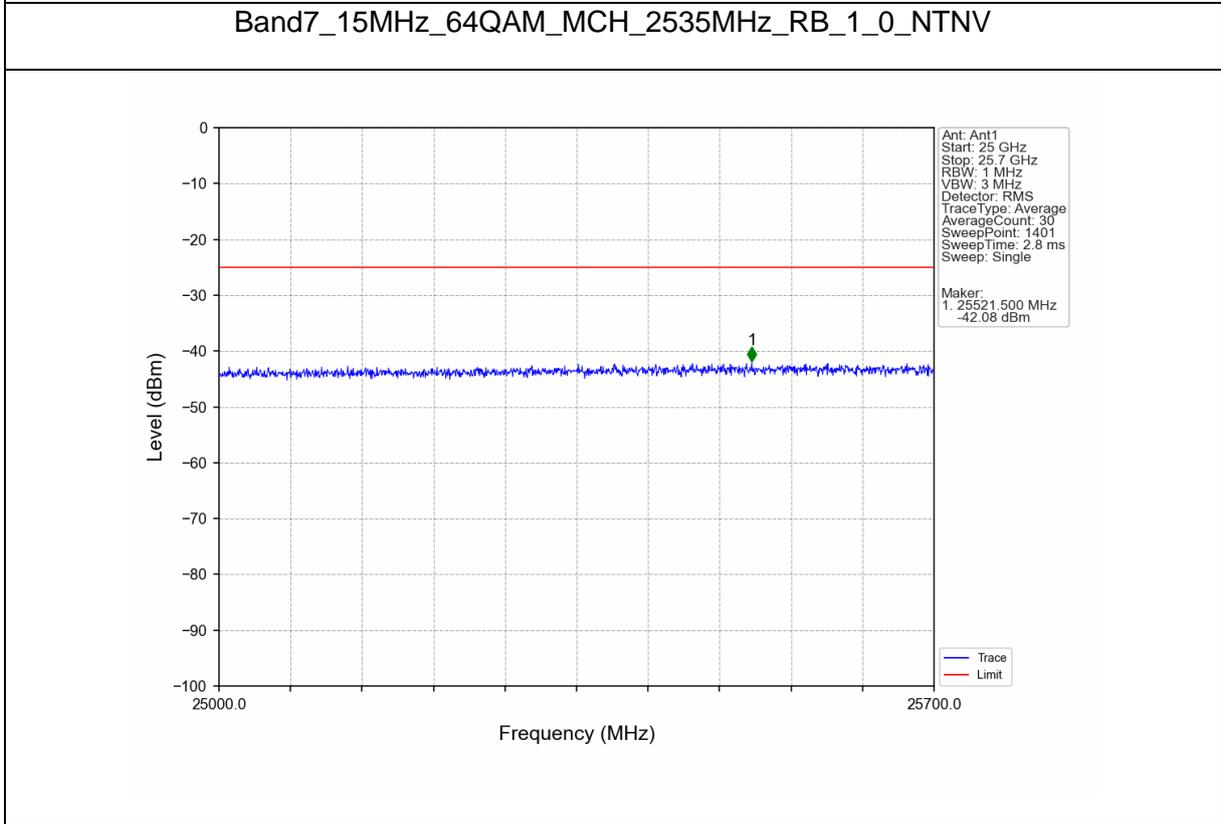
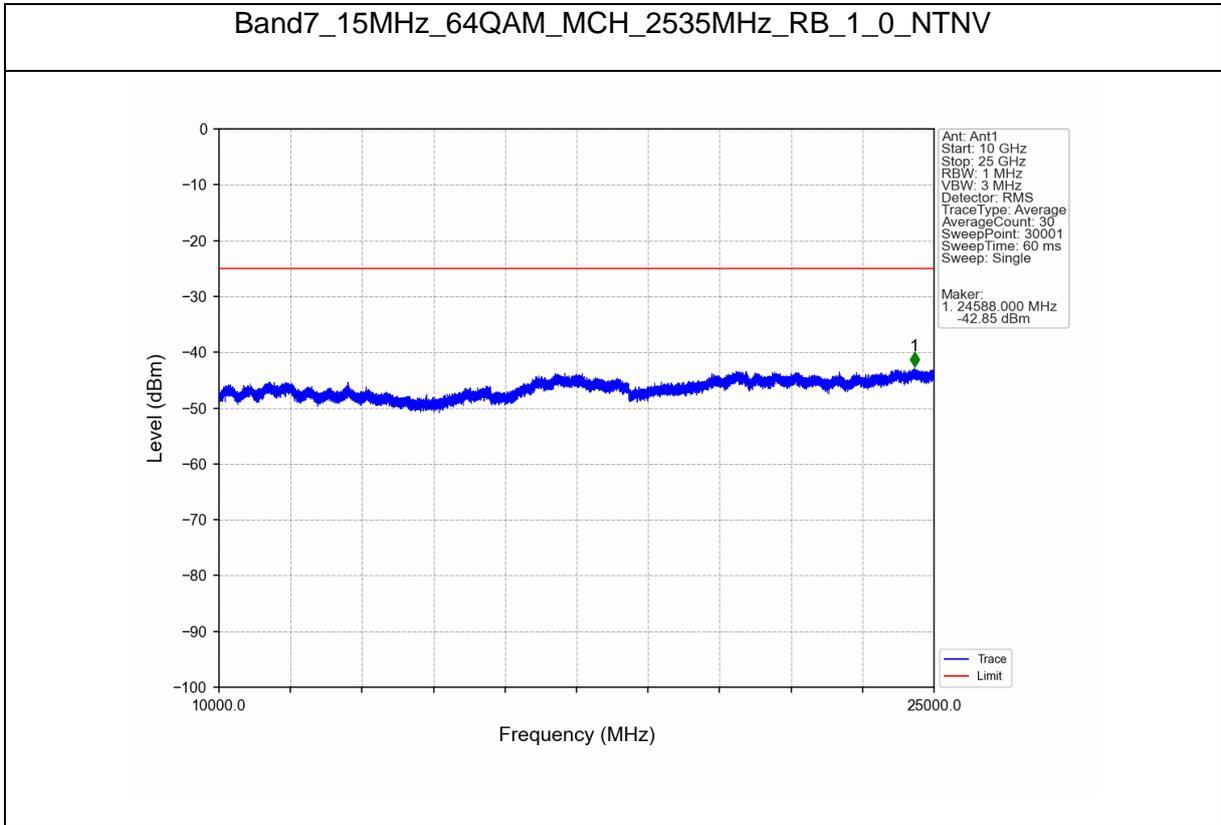
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.460	-42.01	-25	Pass
2490.5	2496	1	CHP	2	2495.980	-35.22	-13	Pass
2496	2499	1	CHP	3	2498.500	-30.43	-10	Pass
2499	2500	0.294	CHP	4	2499.910	-30.73	-10	Pass
2500	2515	0.294	CHP	/	/	/	/	/

Band7_15MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV

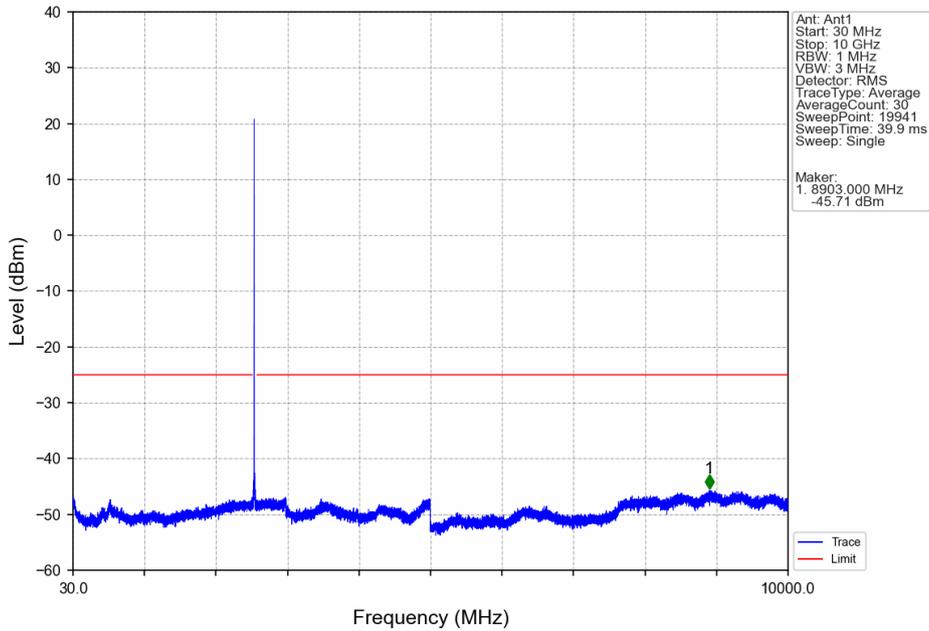




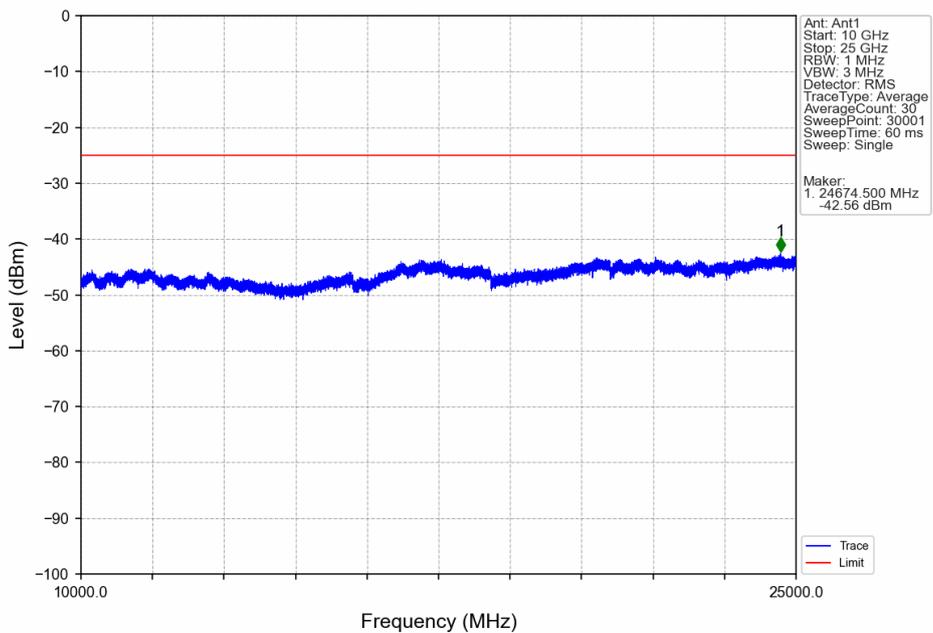
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Band7_15MHz_64QAM_HCH_2562.5MHz_RB_1_0_NTNV

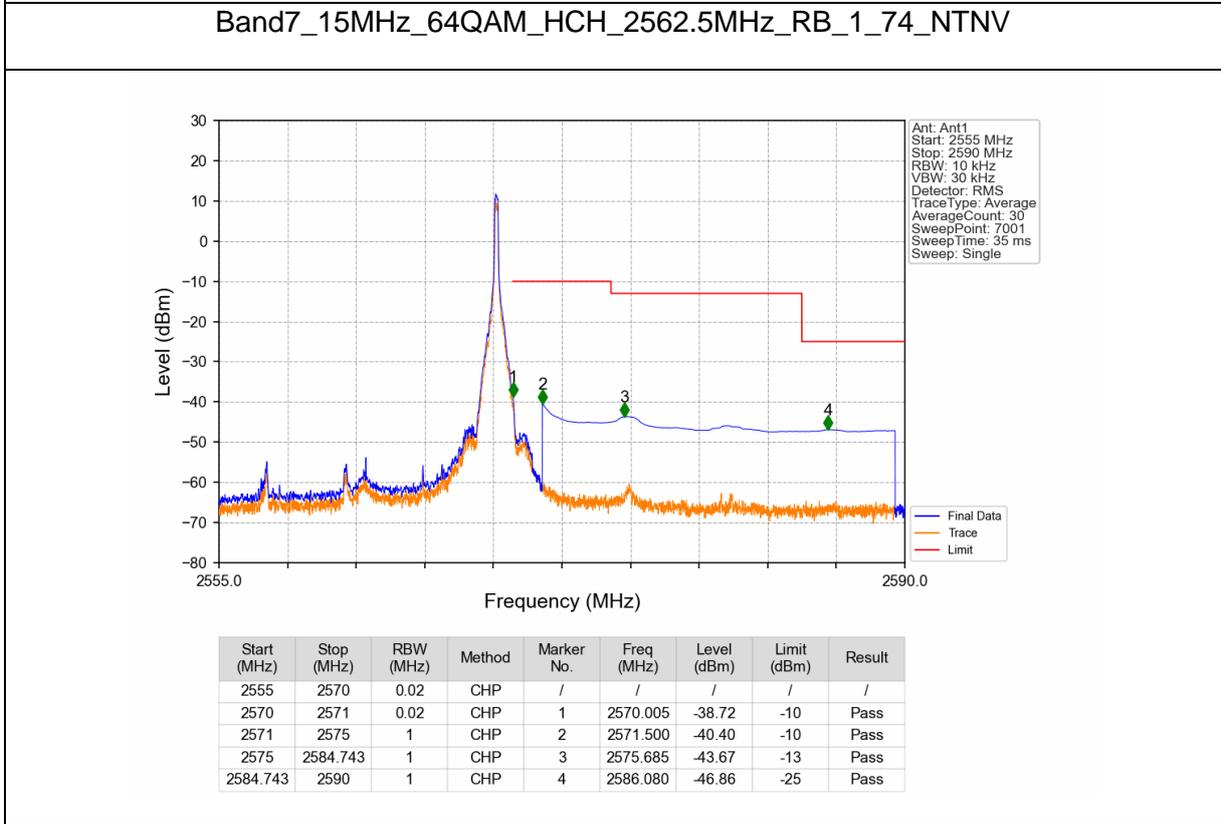
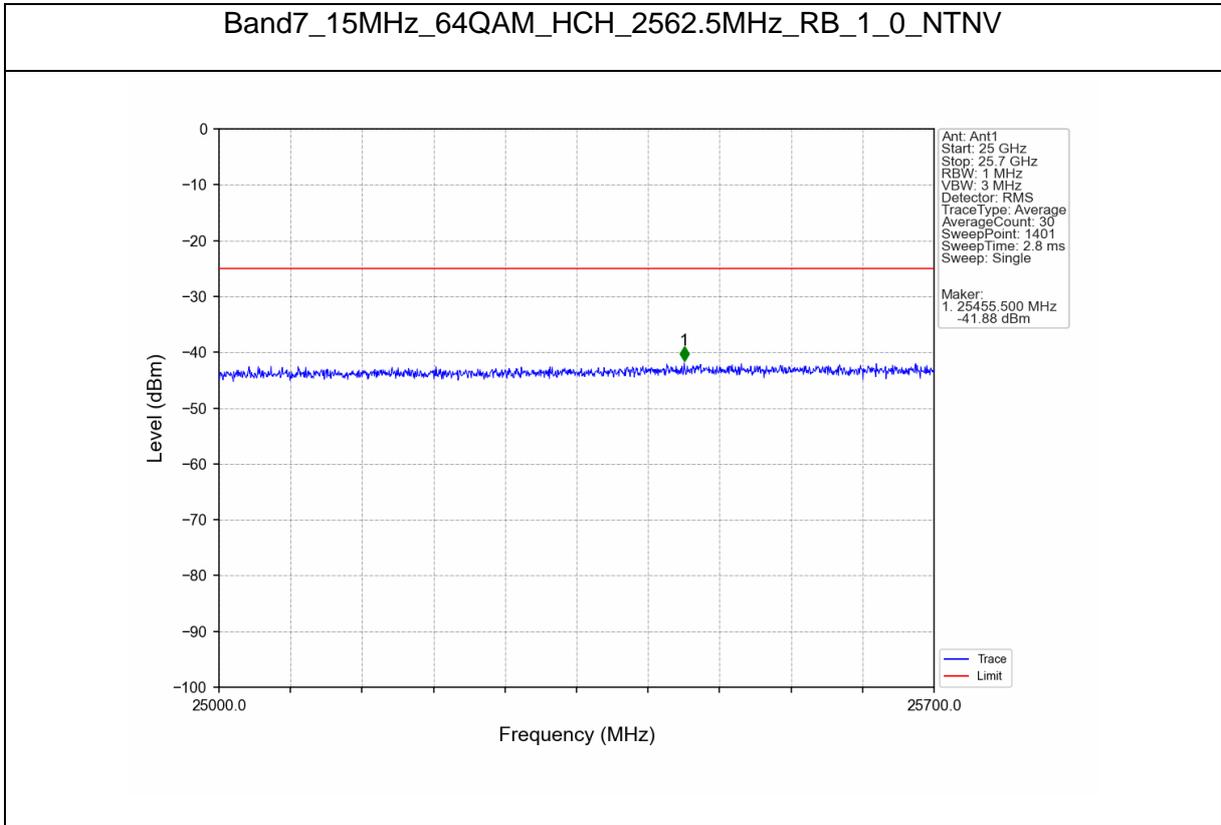


Band7_15MHz_64QAM_HCH_2562.5MHz_RB_1_0_NTNV





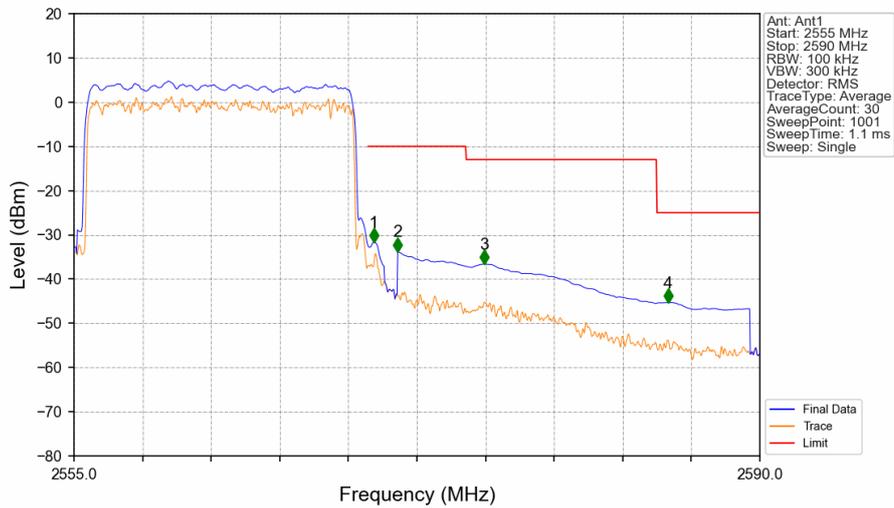
Test Report No.: PSU-NQN2504150110RF04





Test Report No.: PSU-NQN2504150110RF04

Band7_15MHz_64QAM_HCH_2562.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.295	CHP	/	/	/	/	/
2570	2571	0.295	CHP	1	2570.295	-31.66	-10	Pass
2571	2575	1	CHP	2	2571.520	-33.77	-10	Pass
2575	2584.743	1	CHP	3	2575.930	-36.58	-13	Pass
2584.743	2590	1	CHP	4	2585.310	-45.29	-25	Pass

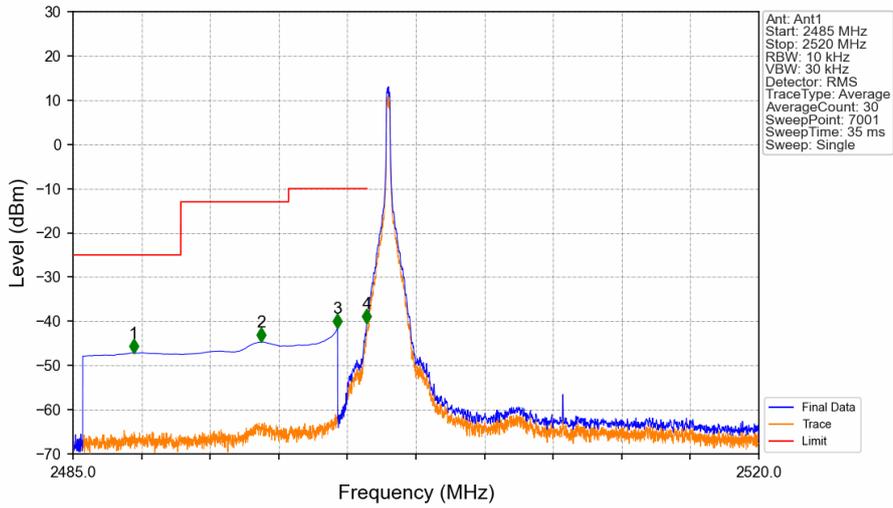


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Test Report No.: PSU-NQN2504150110RF04

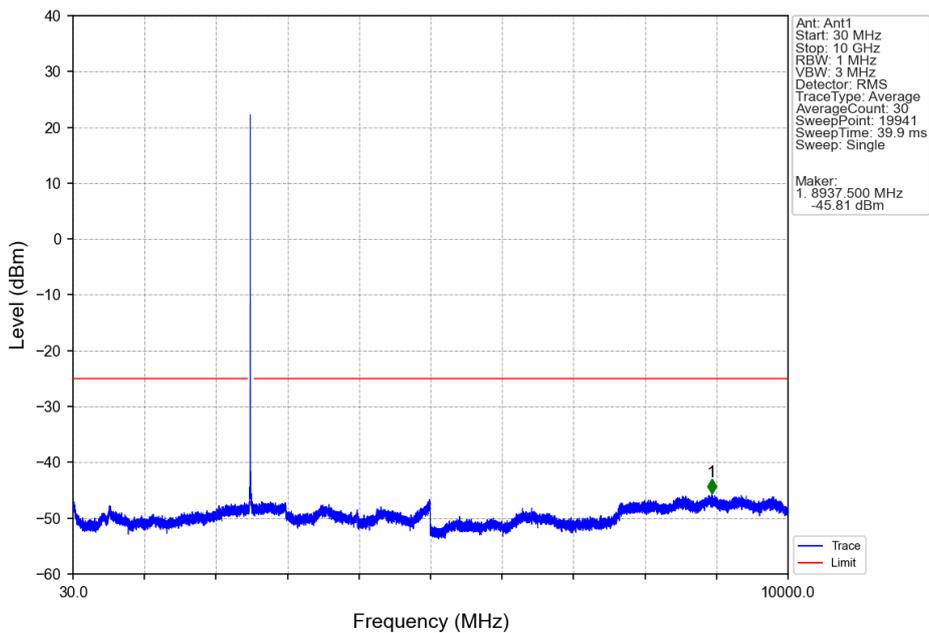
B7_20MHz

Band7_20MHz_QPSK_LCH_2510MHz_RB_1_0_NTNV



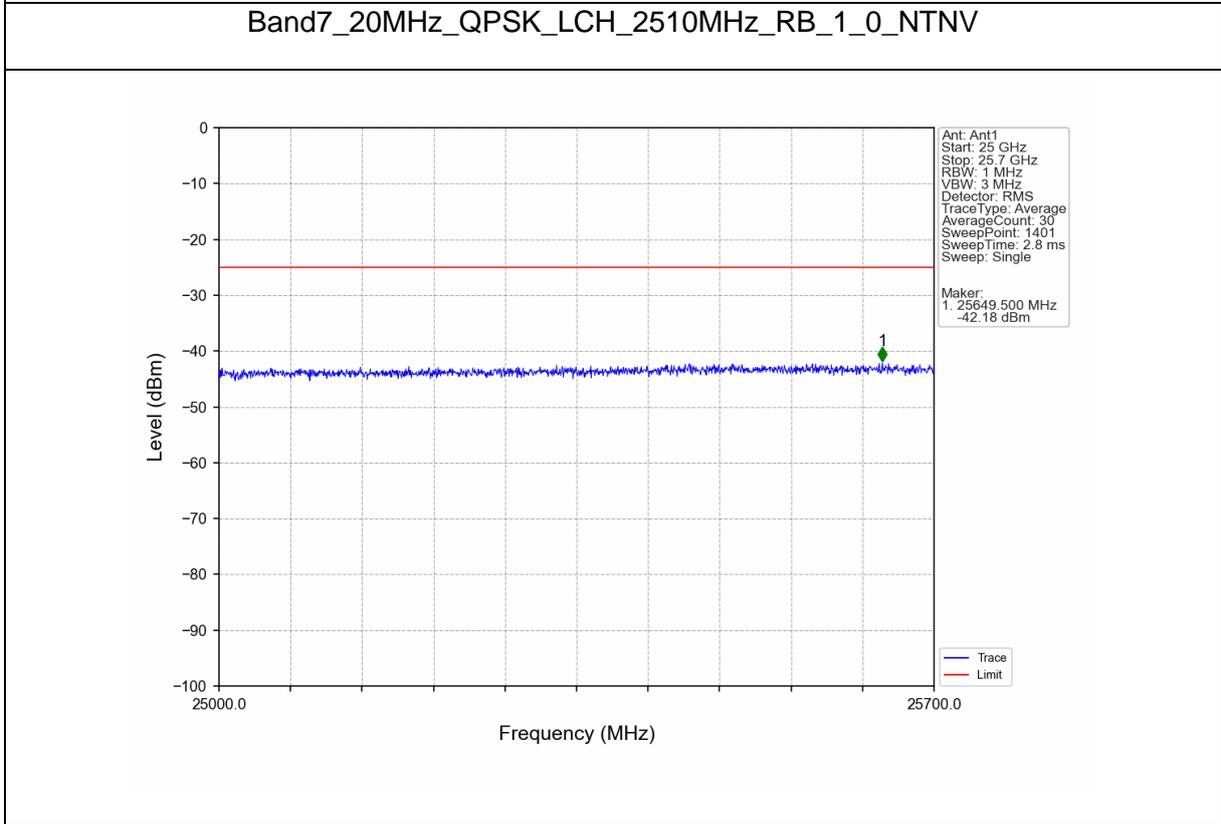
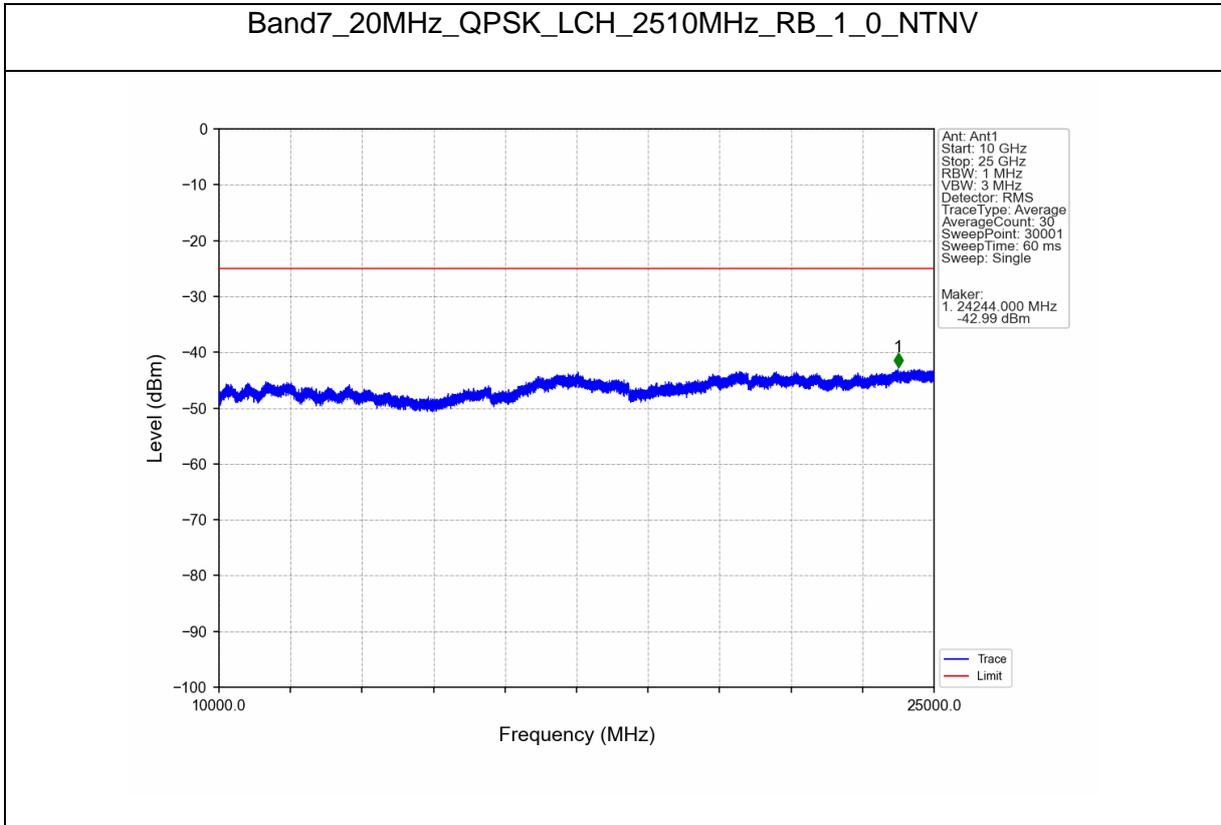
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.100	-47.13	-25	Pass
2490.5	2496	1	CHP	2	2494.600	-44.70	-13	Pass
2496	2499	1	CHP	3	2498.500	-41.58	-10	Pass
2499	2500	0.02	CHP	4	2499.995	-40.52	-10	Pass
2500	2520	0.02	CHP	/	/	/	/	/

Band7_20MHz_QPSK_LCH_2510MHz_RB_1_0_NTNV

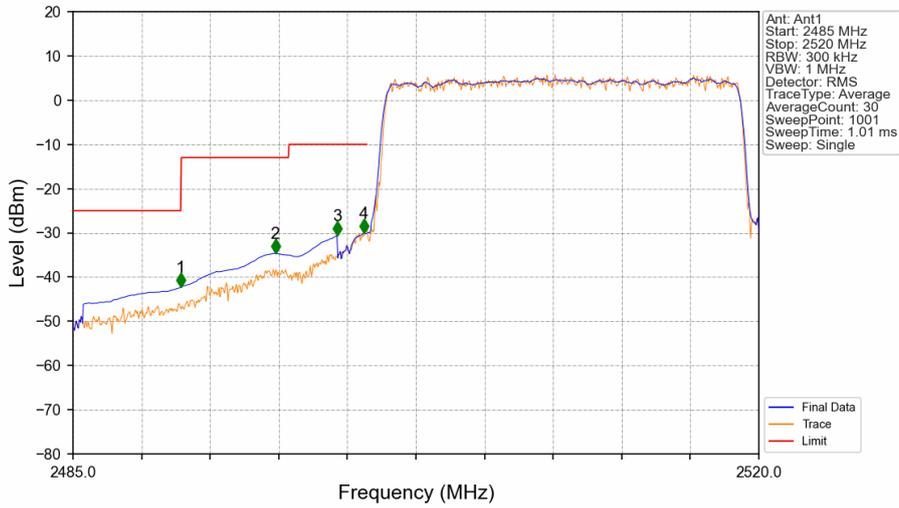




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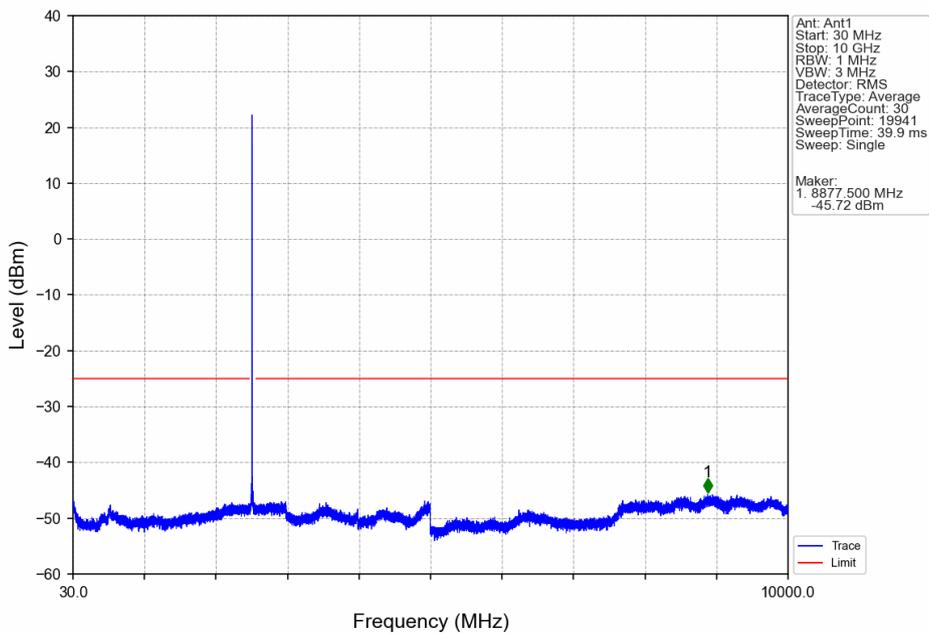


Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



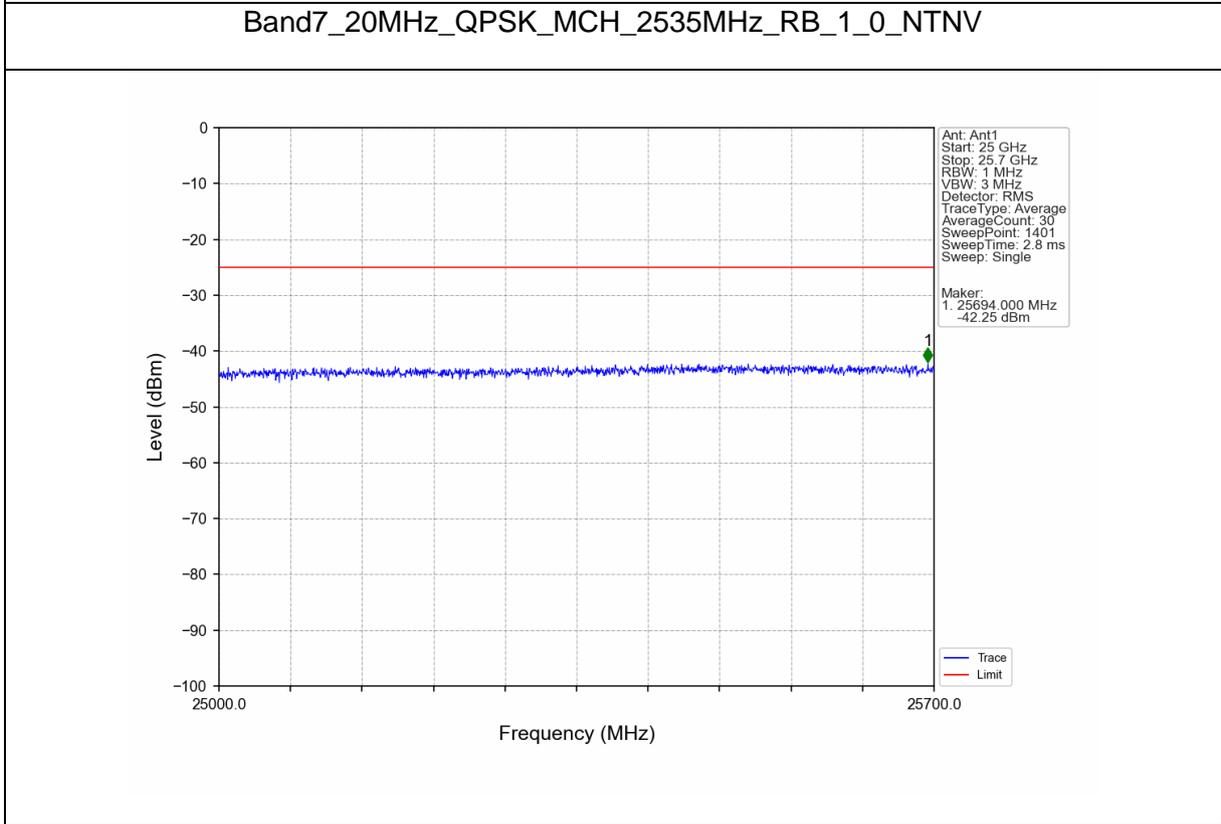
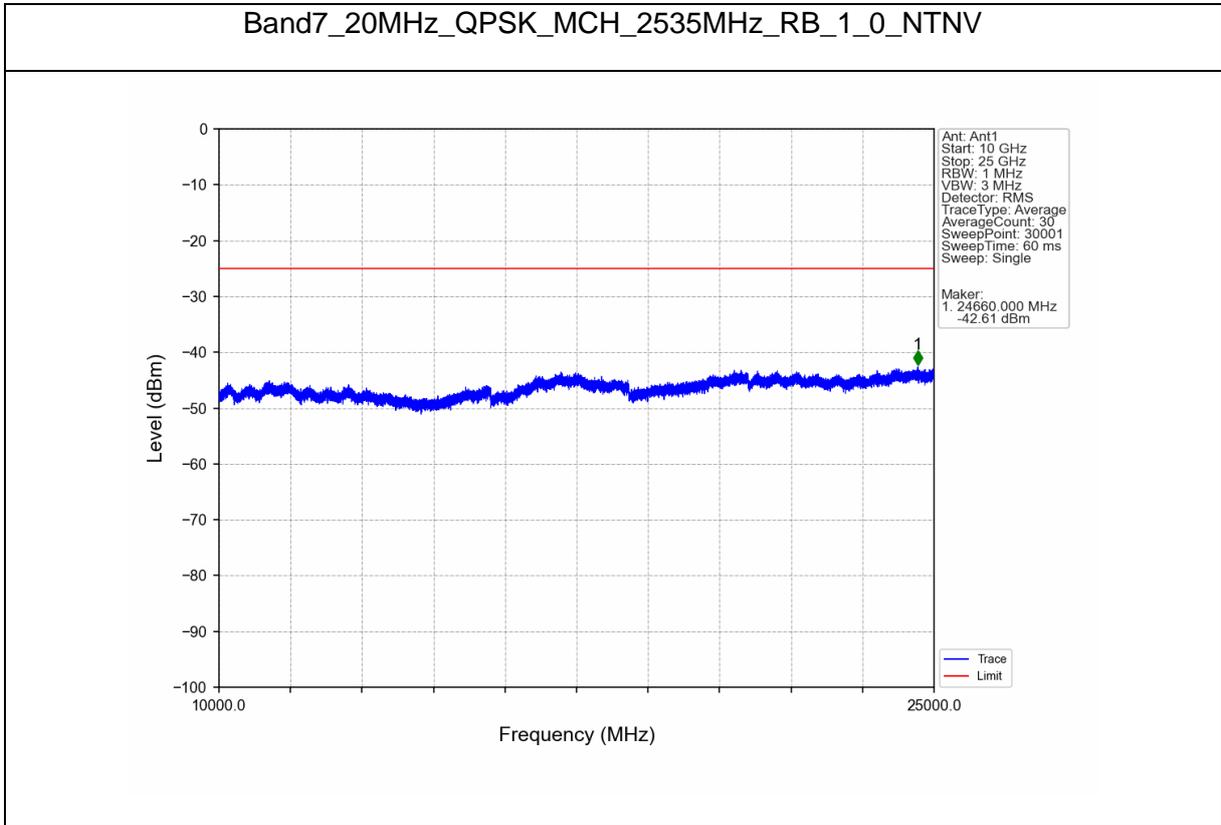
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.495	-42.32	-25	Pass
2490.5	2496	1	CHP	2	2495.325	-34.64	-13	Pass
2496	2499	1	CHP	3	2498.475	-30.56	-10	Pass
2499	2500	0.398	CHP	4	2499.840	-30.08	-10	Pass
2500	2520	0.398	CHP	/	/	/	/	/

Band7_20MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV

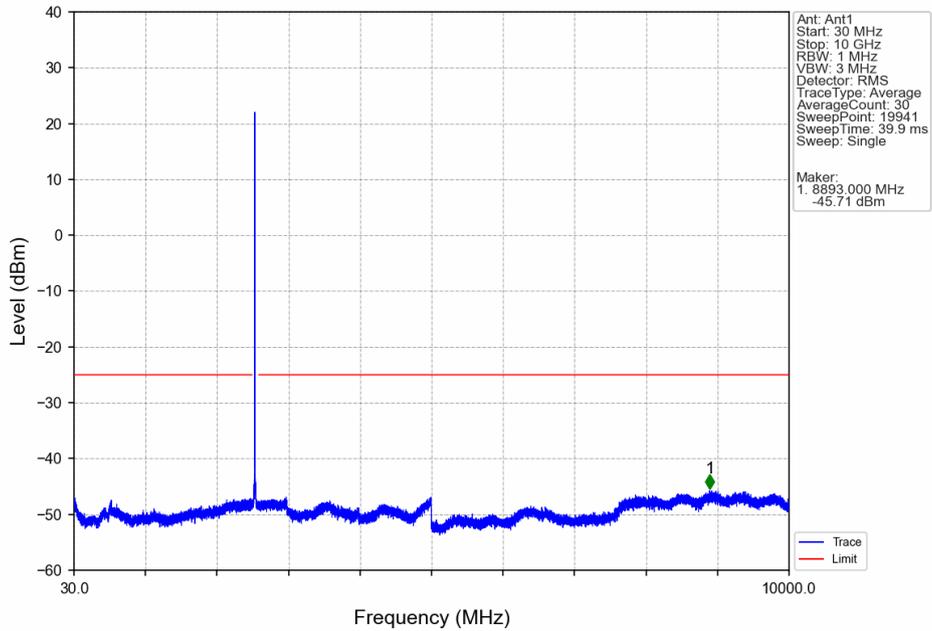




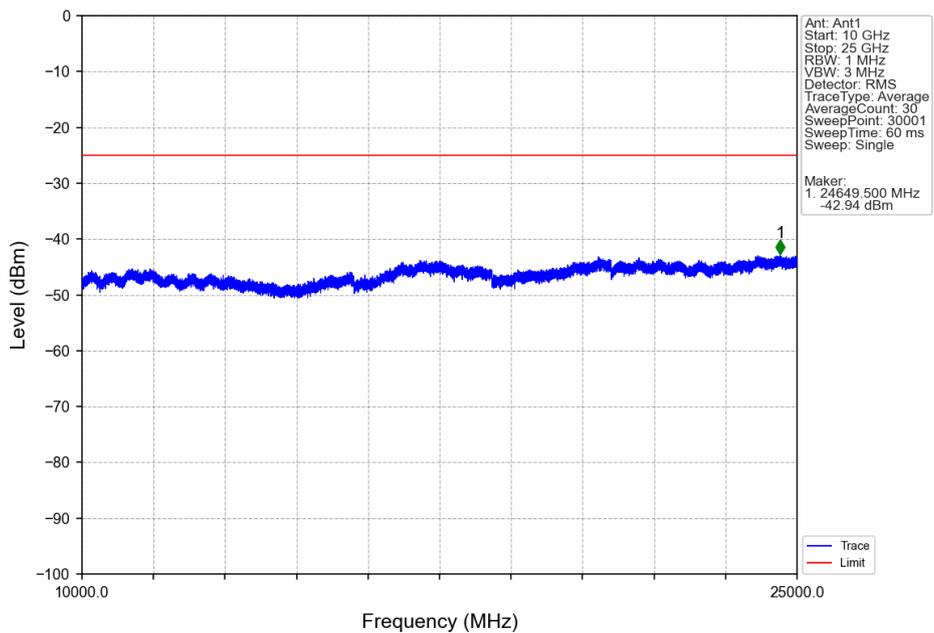
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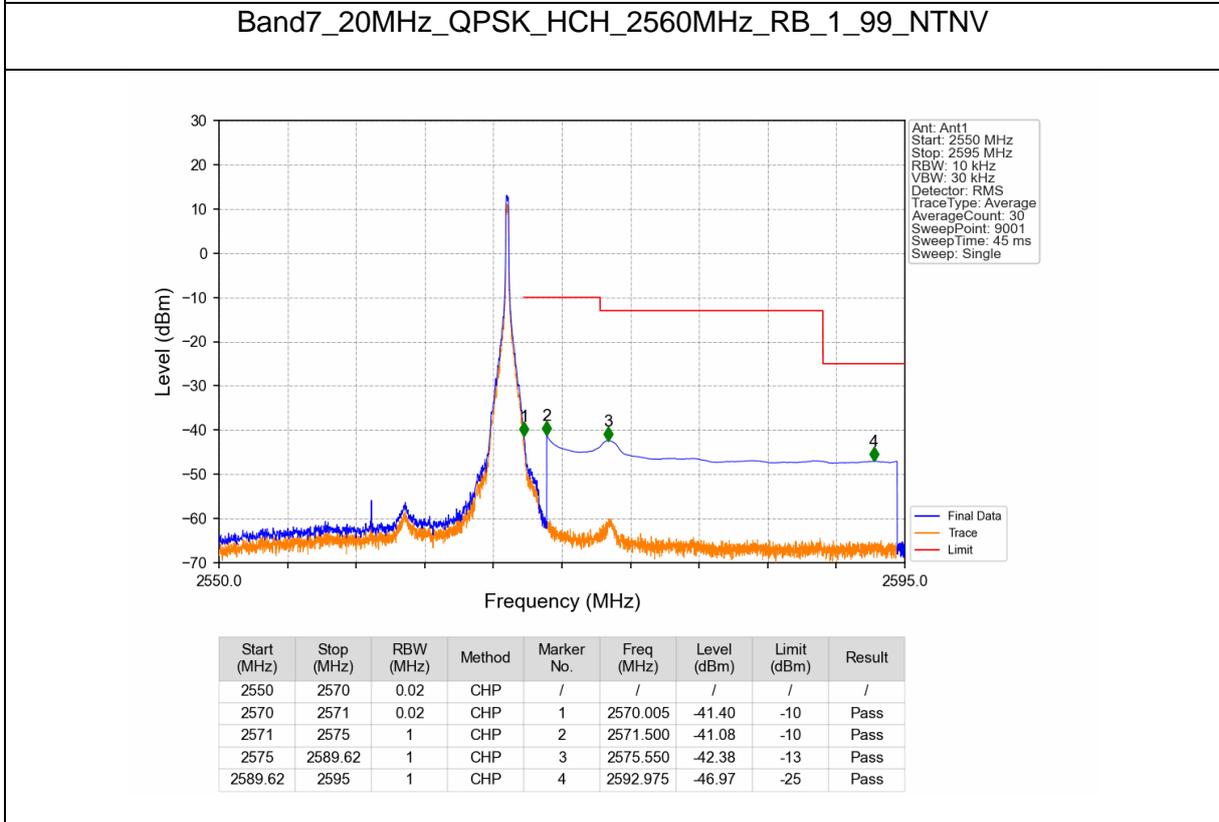
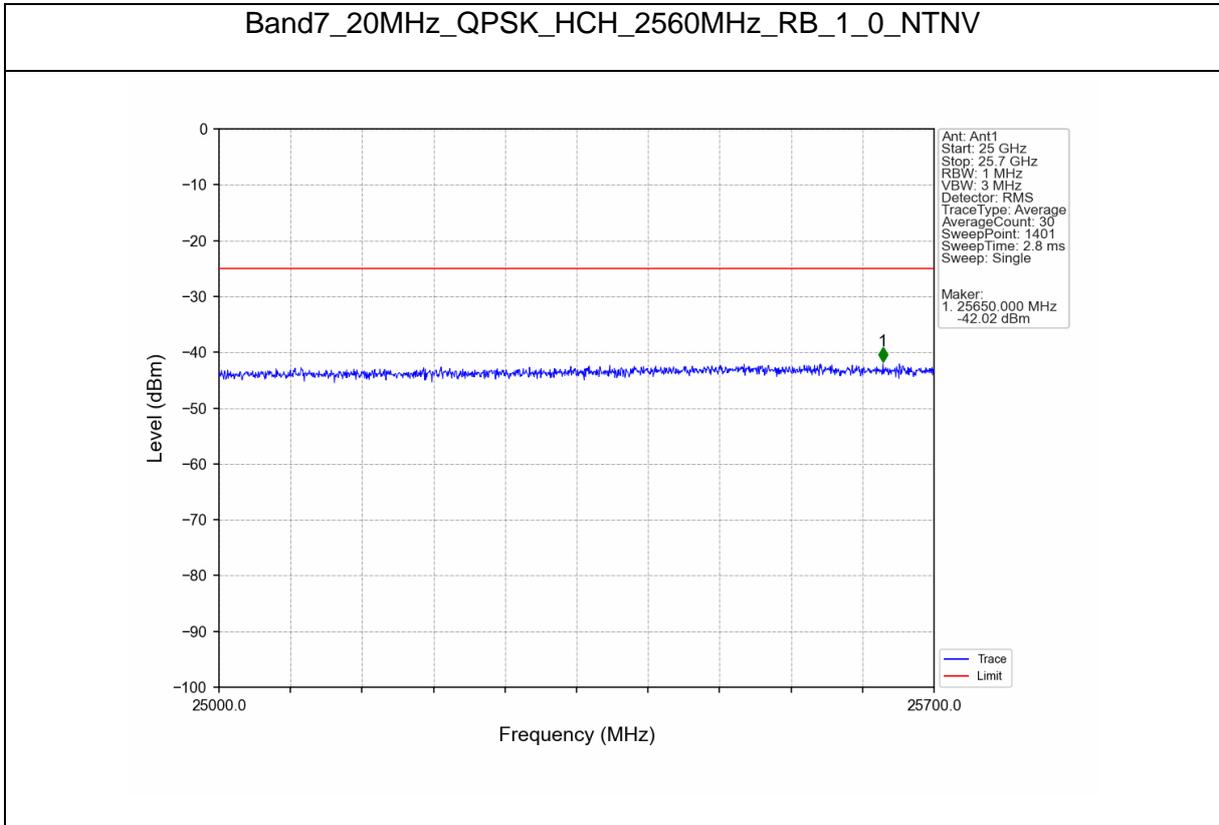


Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV

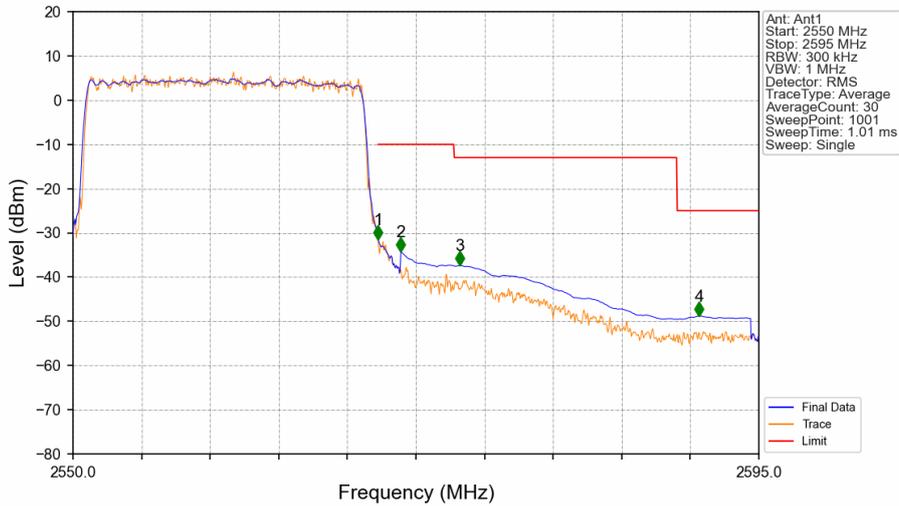


Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV



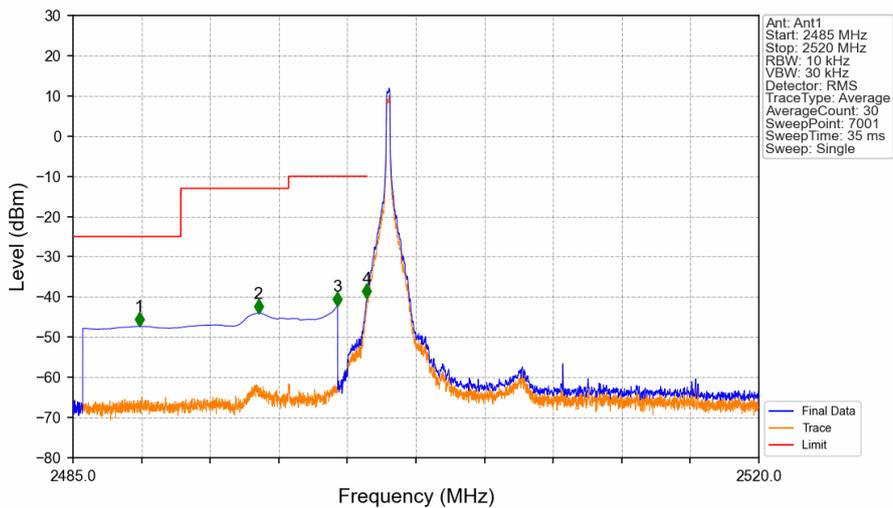


Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2550	2570	0.392	CHP	/	/	/	/	/
2570	2571	0.392	CHP	1	2570.025	-31.45	-10	Pass
2571	2575	1	CHP	2	2571.510	-34.27	-10	Pass
2575	2589.62	1	CHP	3	2575.380	-37.40	-13	Pass
2589.62	2595	1	CHP	4	2591.085	-48.80	-25	Pass

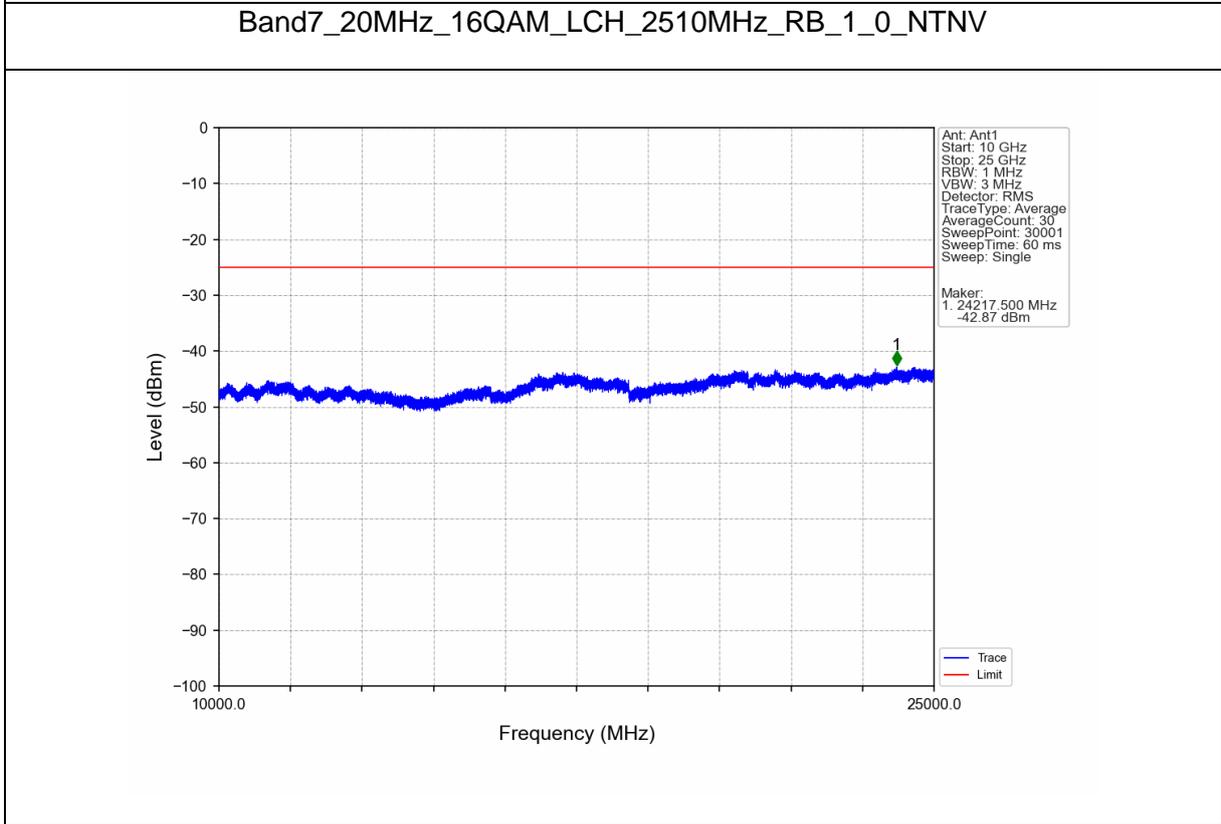
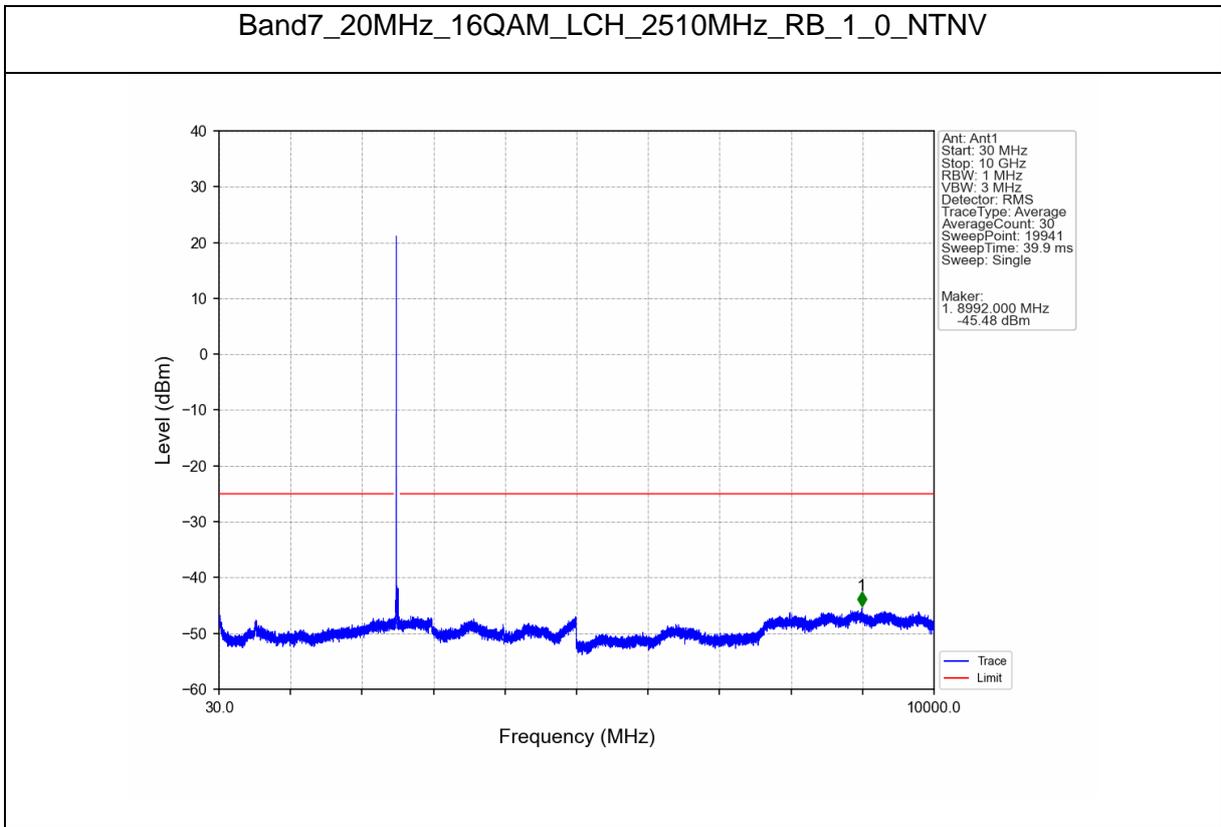
Band7_20MHz_16QAM_LCH_2510MHz_RB_1_0_NTNV

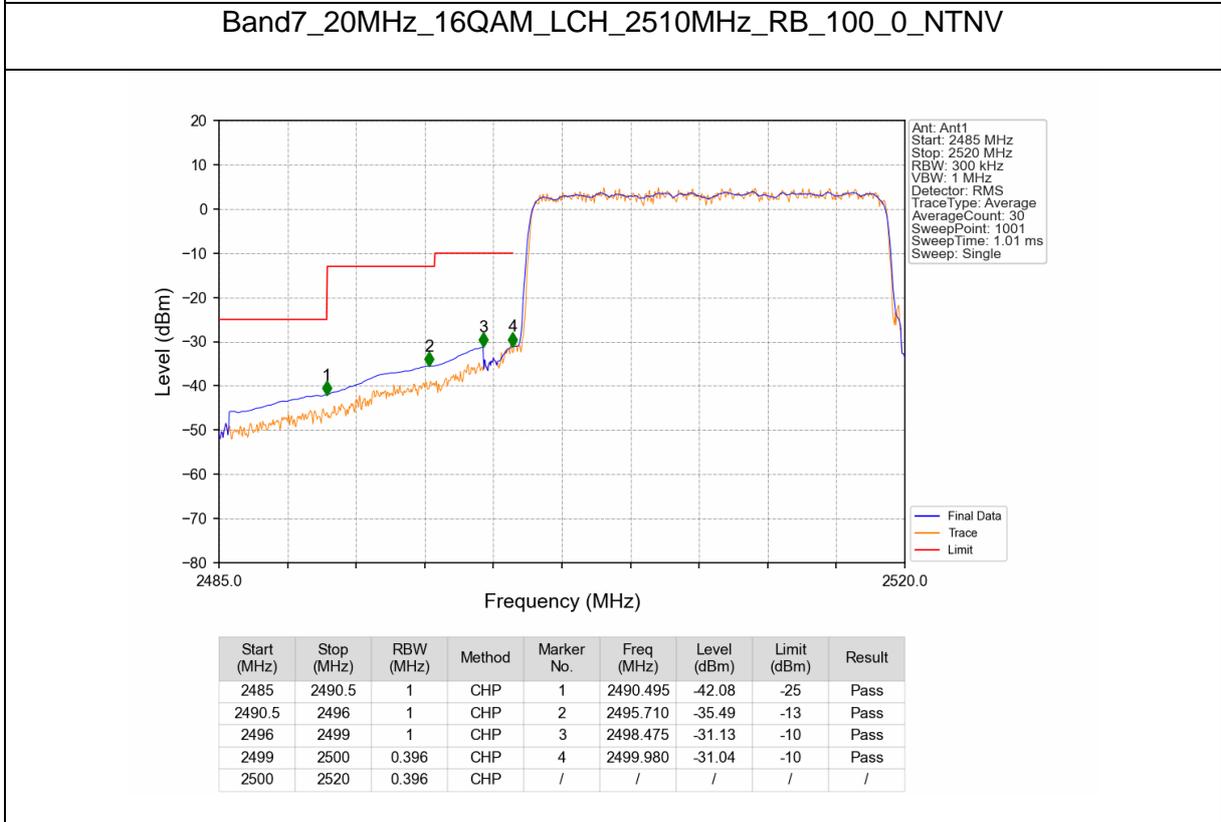
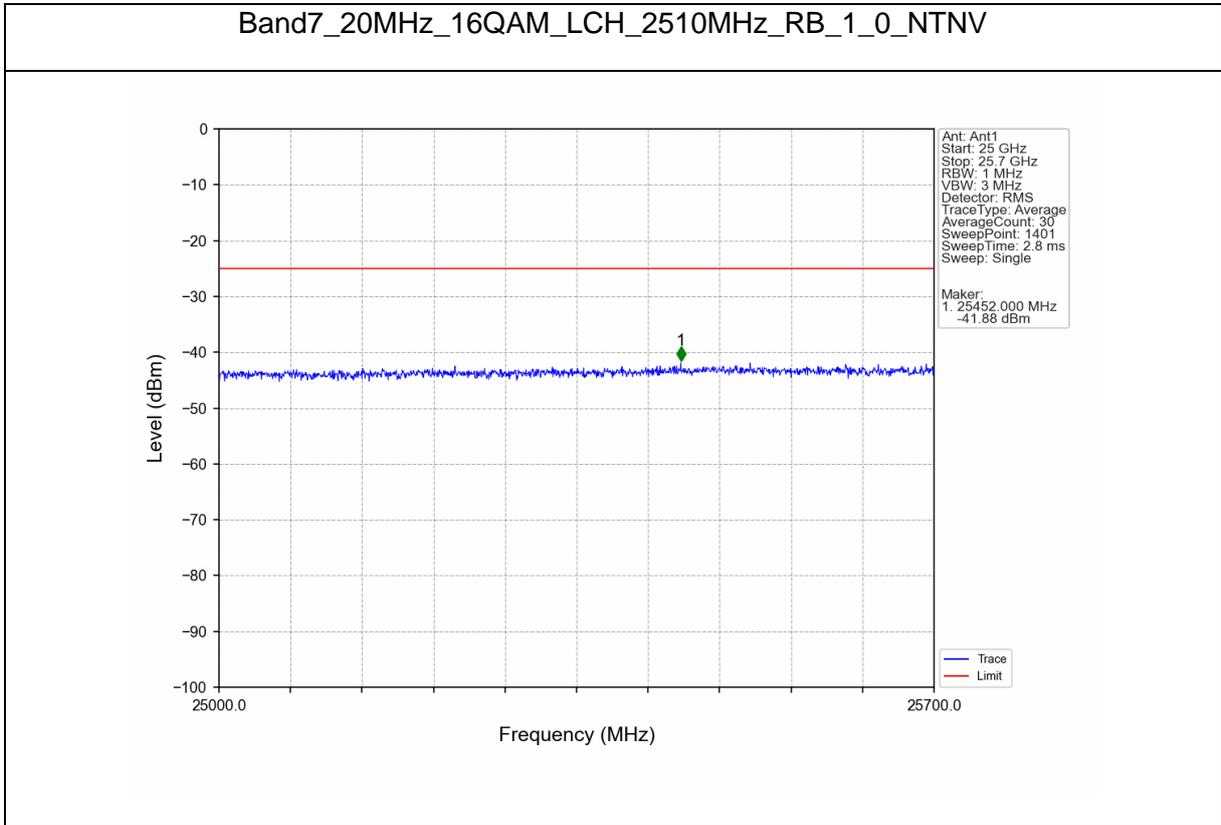


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.380	-47.29	-25	Pass
2490.5	2496	1	CHP	2	2494.455	-44.05	-13	Pass
2496	2499	1	CHP	3	2498.500	-42.18	-10	Pass
2499	2500	0.02	CHP	4	2499.995	-40.26	-10	Pass
2500	2520	0.02	CHP	/	/	/	/	/

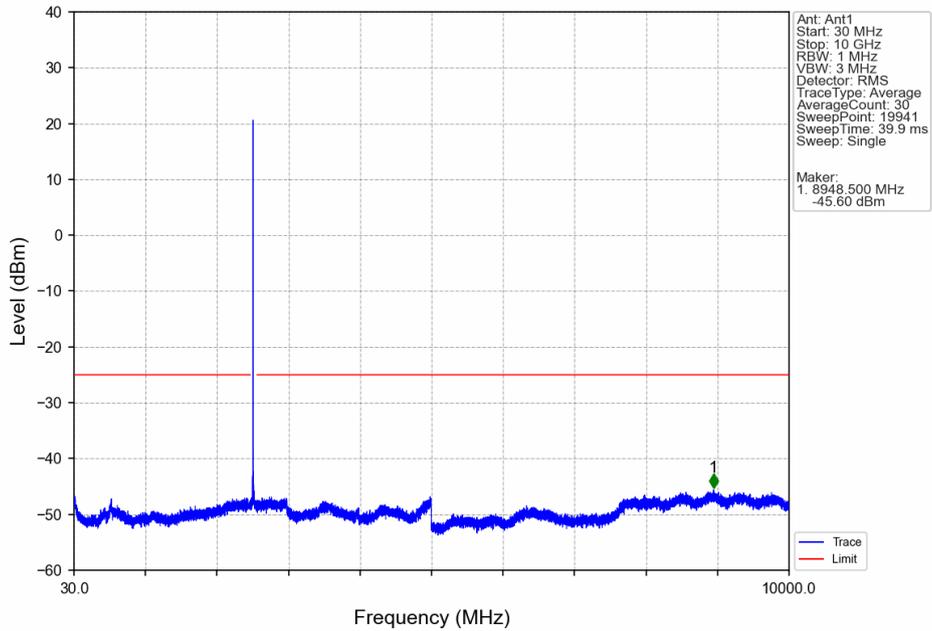


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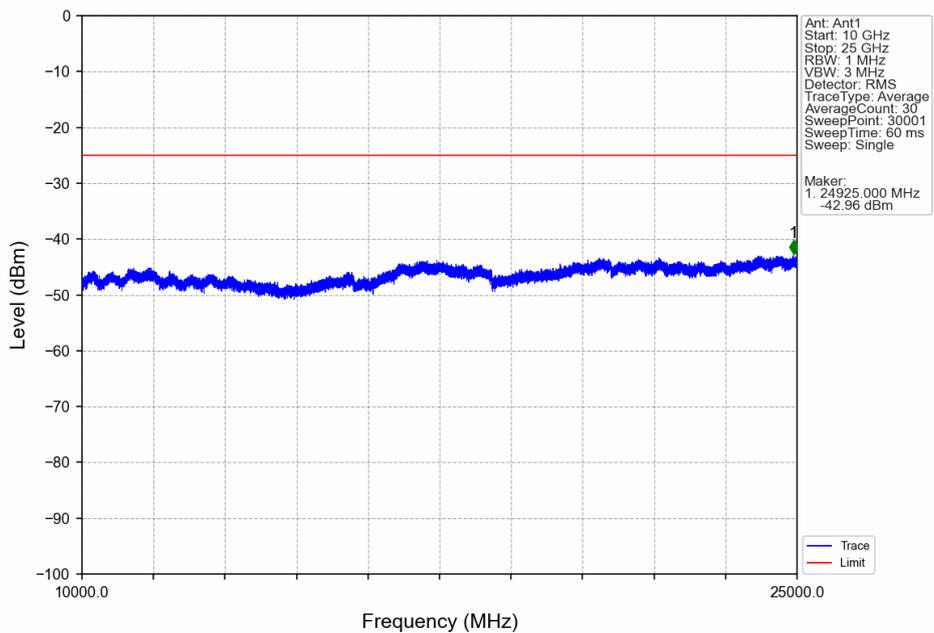


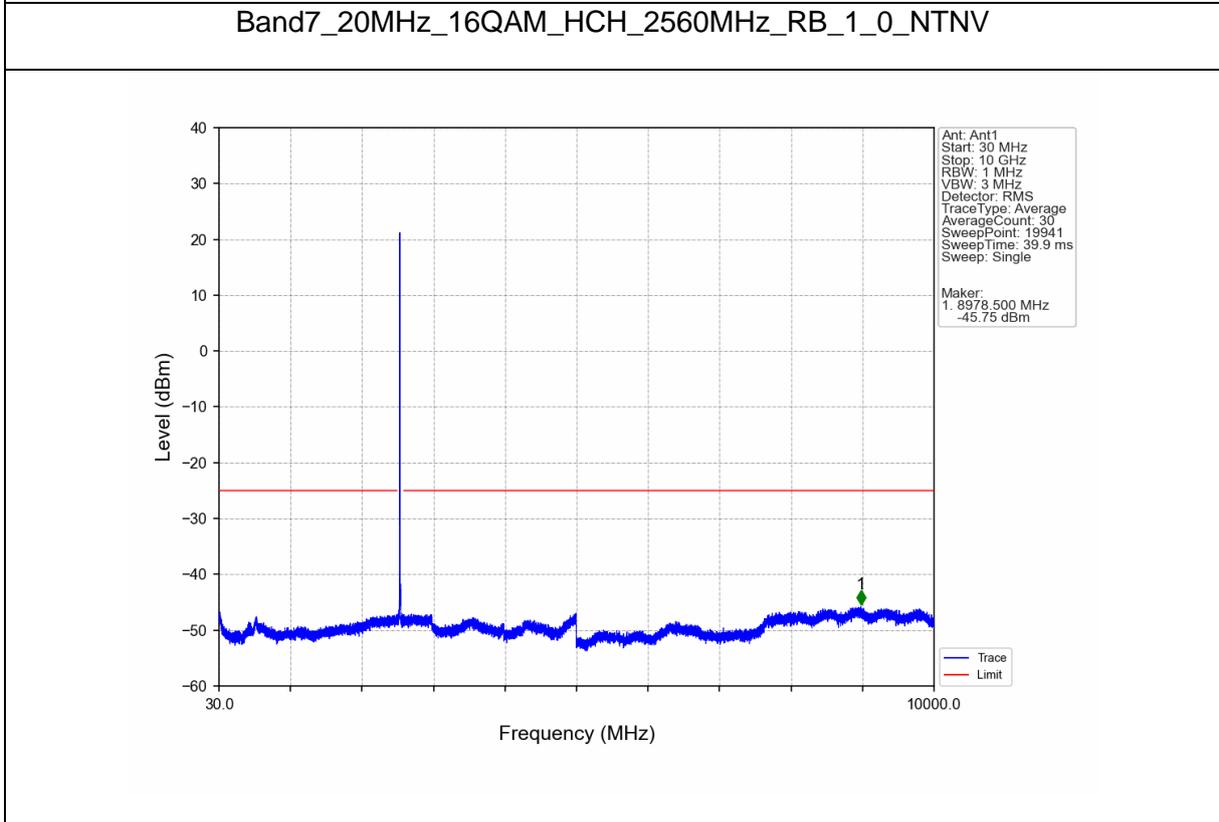
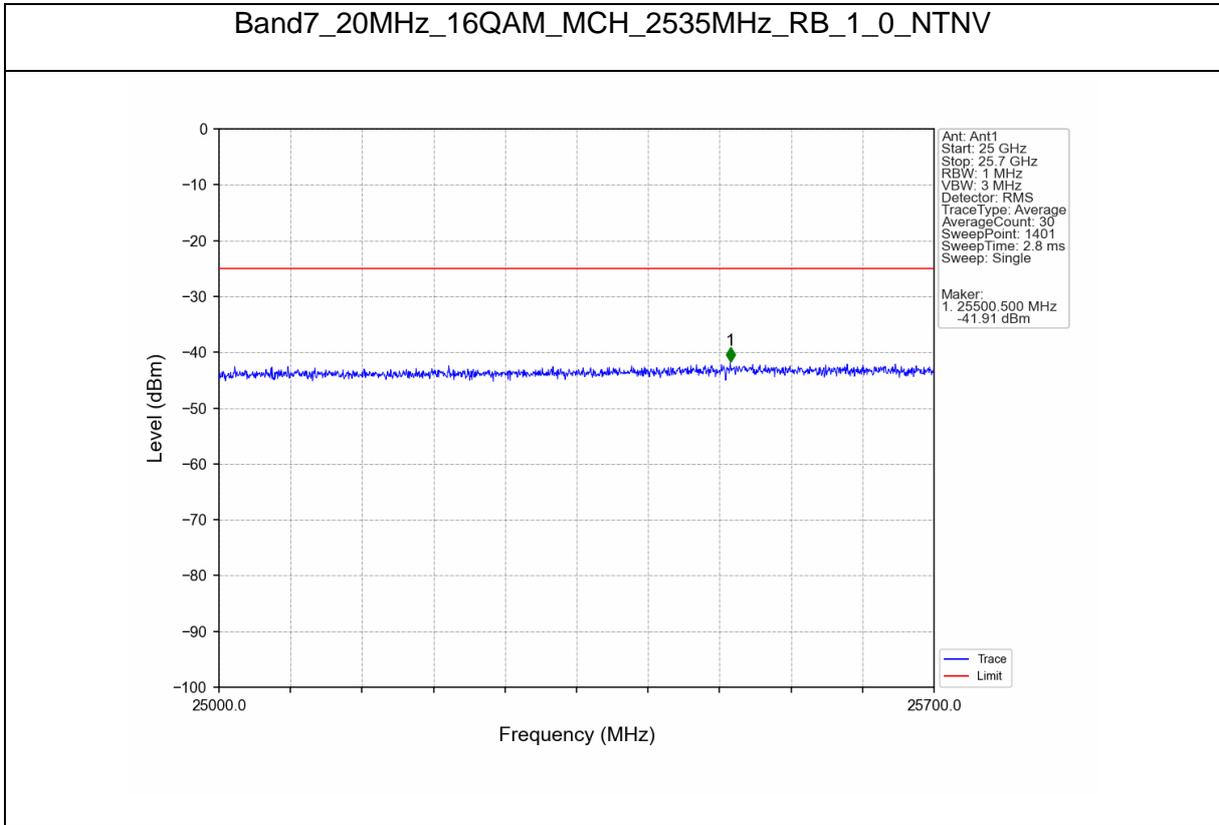


Band7_20MHz_16QAM_MCH_2535MHz_RB_1_0_NTNV

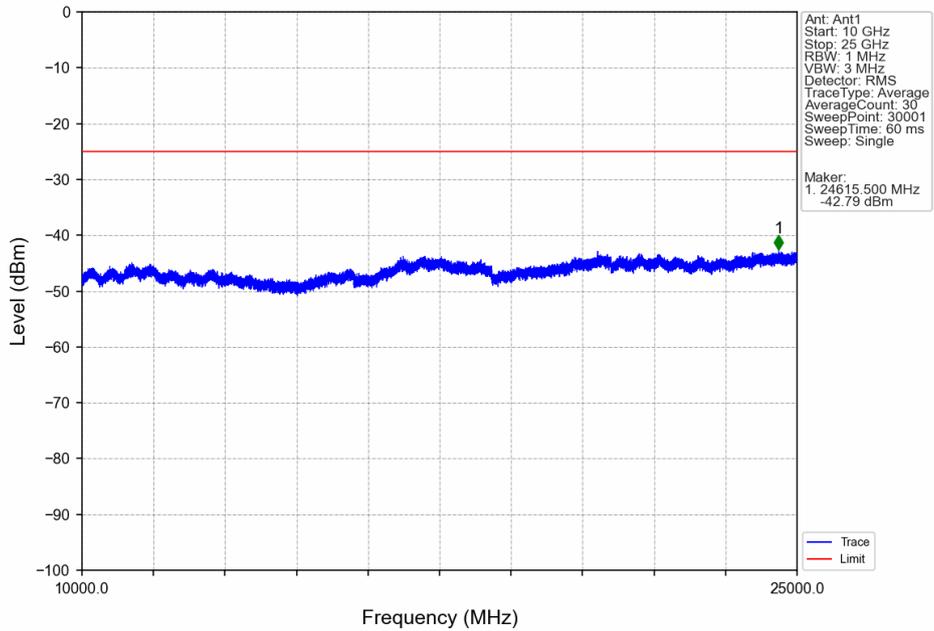


Band7_20MHz_16QAM_MCH_2535MHz_RB_1_0_NTNV

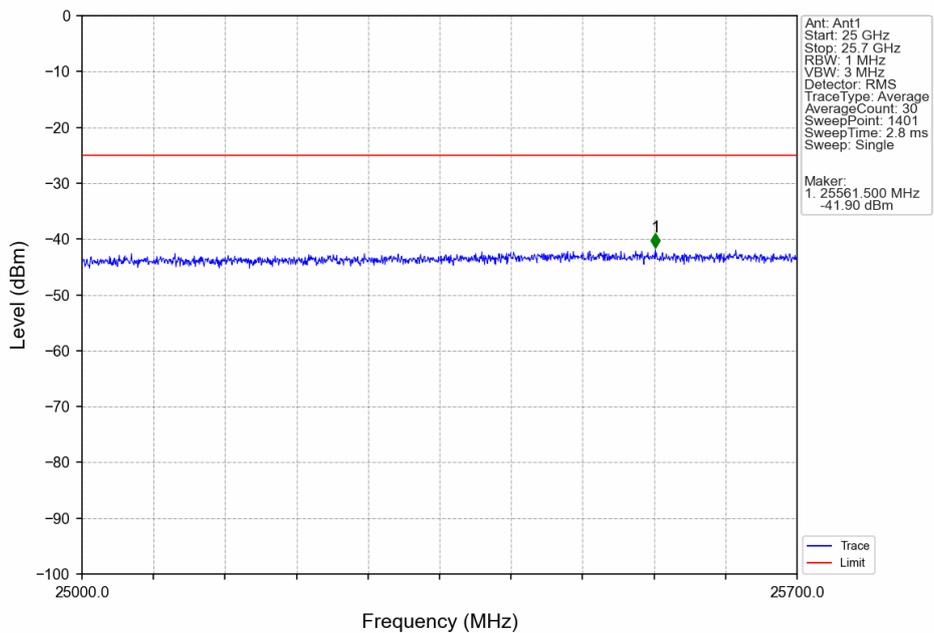




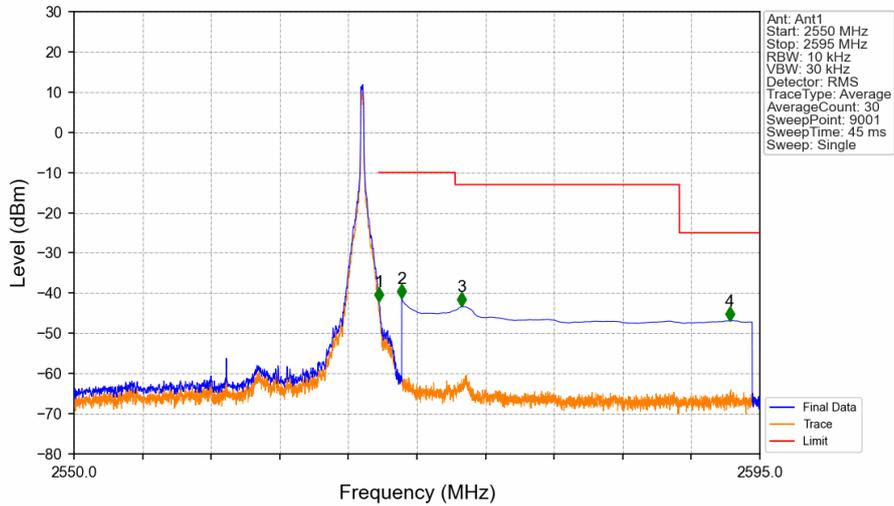
Band7_20MHz_16QAM_HCH_2560MHz_RB_1_0_NTNV



Band7_20MHz_16QAM_HCH_2560MHz_RB_1_0_NTNV

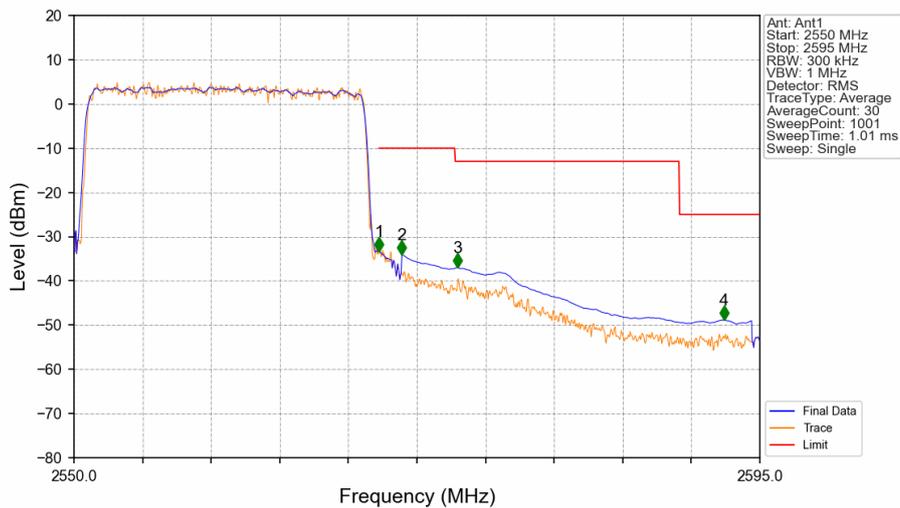


Band7_20MHz_16QAM_HCH_2560MHz_RB_1_99_NTNV



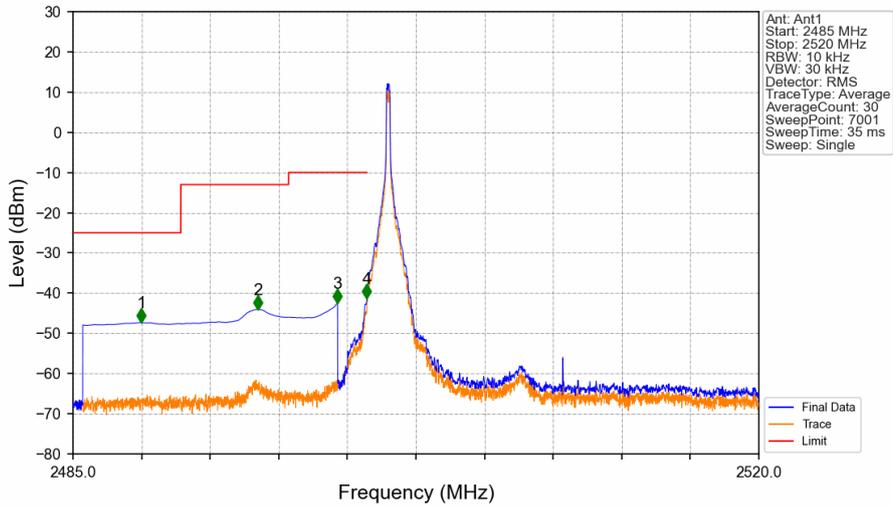
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2550	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-42.04	-10	Pass
2571	2575	1	CHP	2	2571.500	-41.33	-10	Pass
2575	2589.715	1	CHP	3	2575.445	-43.34	-13	Pass
2589.715	2595	1	CHP	4	2593.025	-46.84	-25	Pass

Band7_20MHz_16QAM_HCH_2560MHz_RB_100_0_NTNV



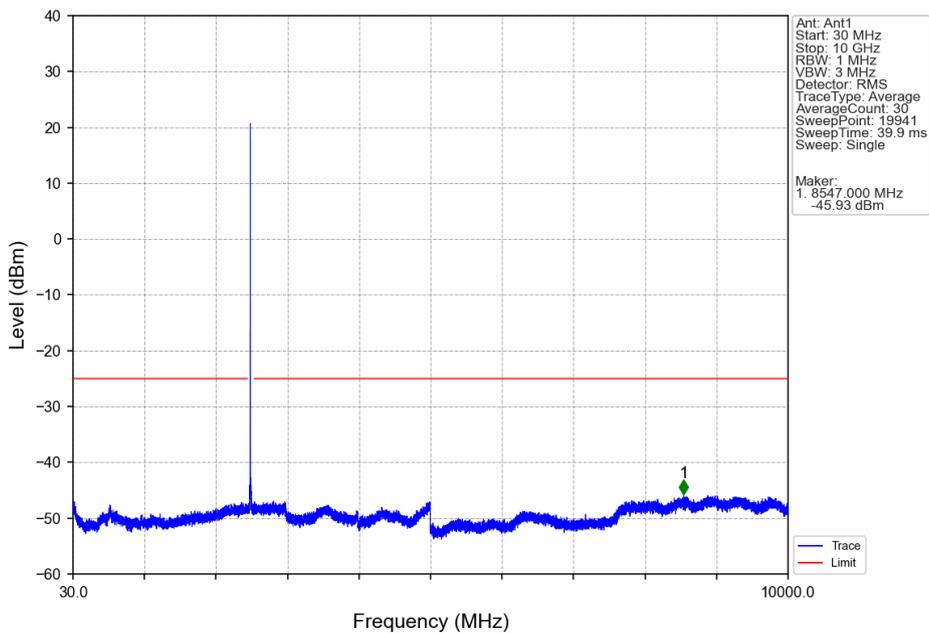
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2550	2570	0.394	CHP	/	/	/	/	/
2570	2571	0.394	CHP	1	2570.025	-33.37	-10	Pass
2571	2575	1	CHP	2	2571.510	-34.04	-10	Pass
2575	2589.715	1	CHP	3	2575.155	-36.99	-13	Pass
2589.715	2595	1	CHP	4	2592.660	-48.86	-25	Pass

Band7_20MHz_64QAM_LCH_2510MHz_RB_1_0_NTNV



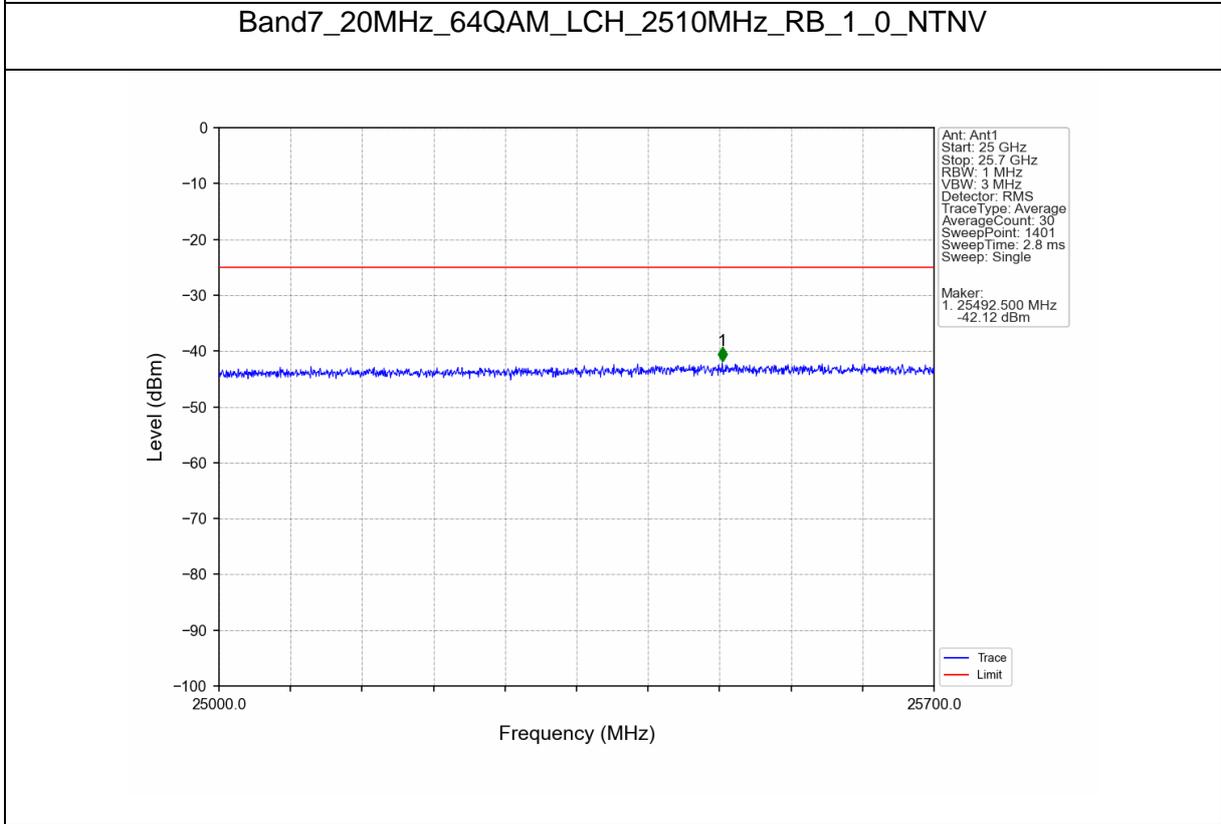
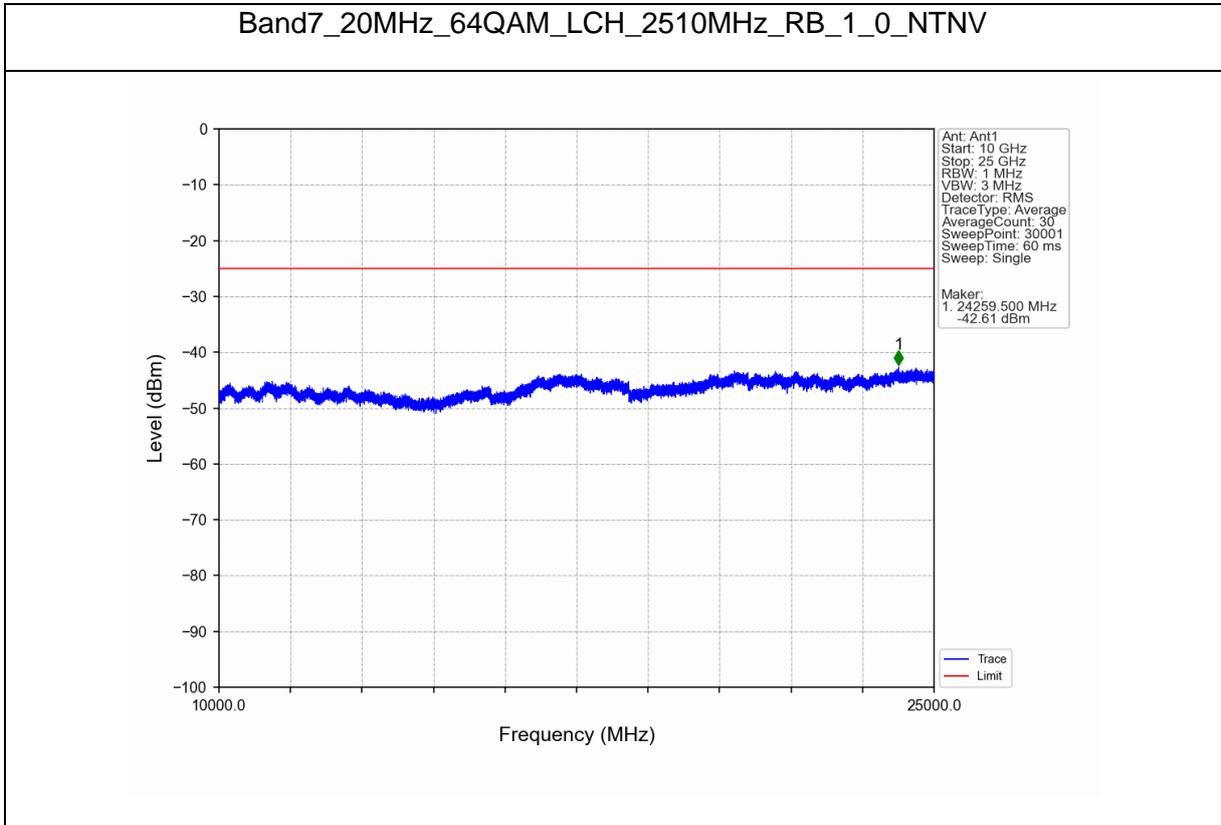
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.490	-47.33	-25	Pass
2490.5	2496	1	CHP	2	2494.440	-44.01	-13	Pass
2496	2499	1	CHP	3	2498.500	-42.41	-10	Pass
2499	2500	0.02	CHP	4	2499.995	-41.30	-10	Pass
2500	2520	0.02	CHP	/	/	/	/	/

Band7_20MHz_64QAM_LCH_2510MHz_RB_1_0_NTNV

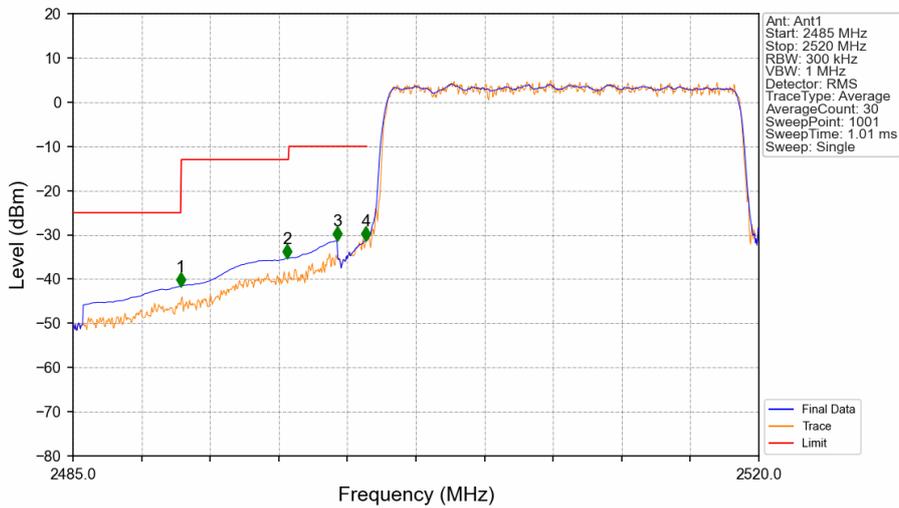




Test Report No.: PSU-NQN2504150110RF04

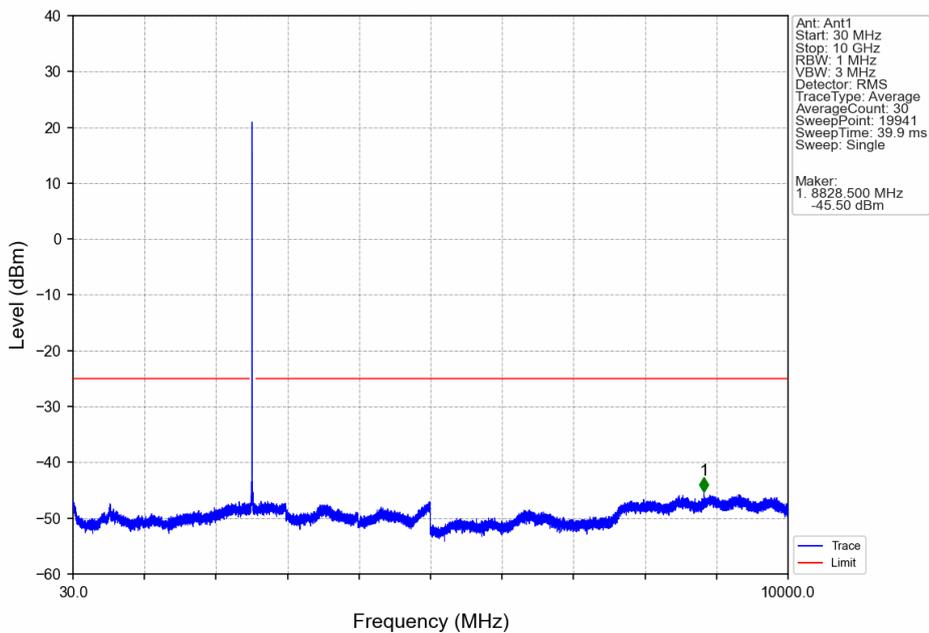


Band7_20MHz_64QAM_LCH_2510MHz_RB_100_0_NTNV



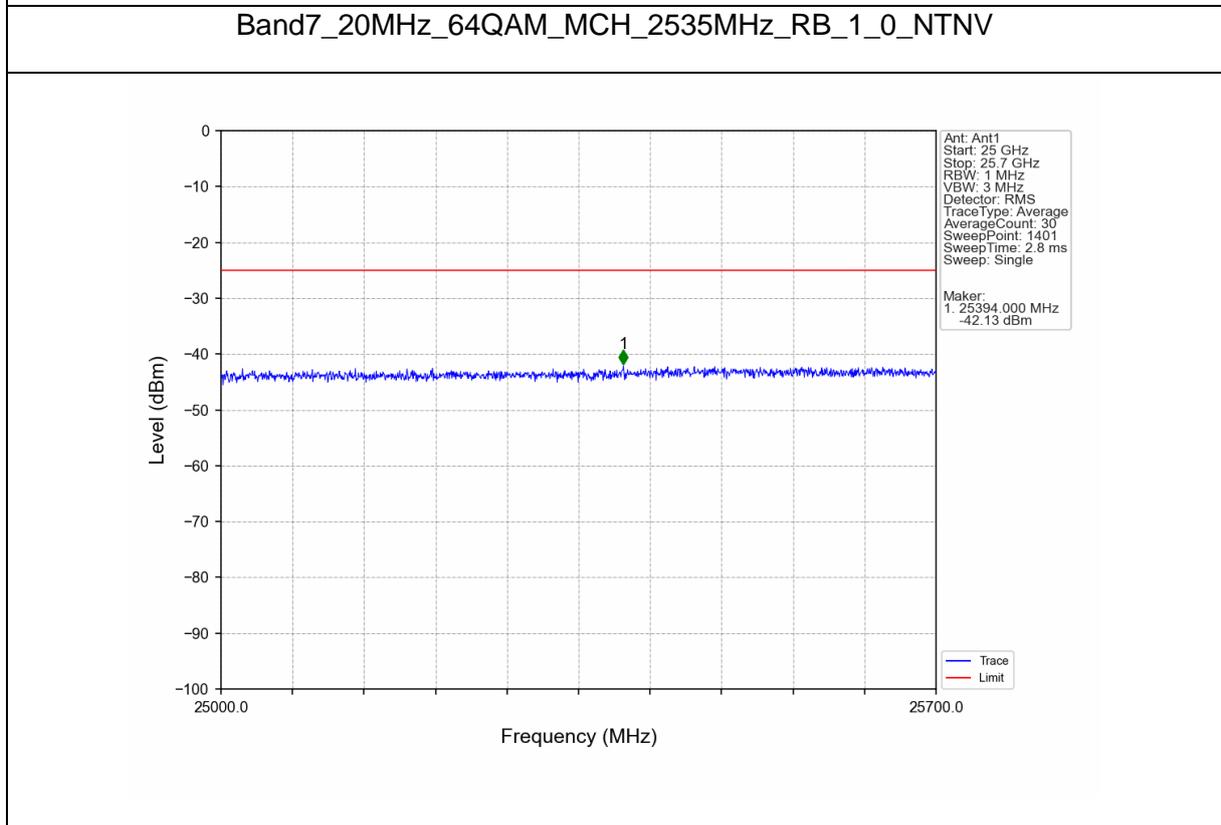
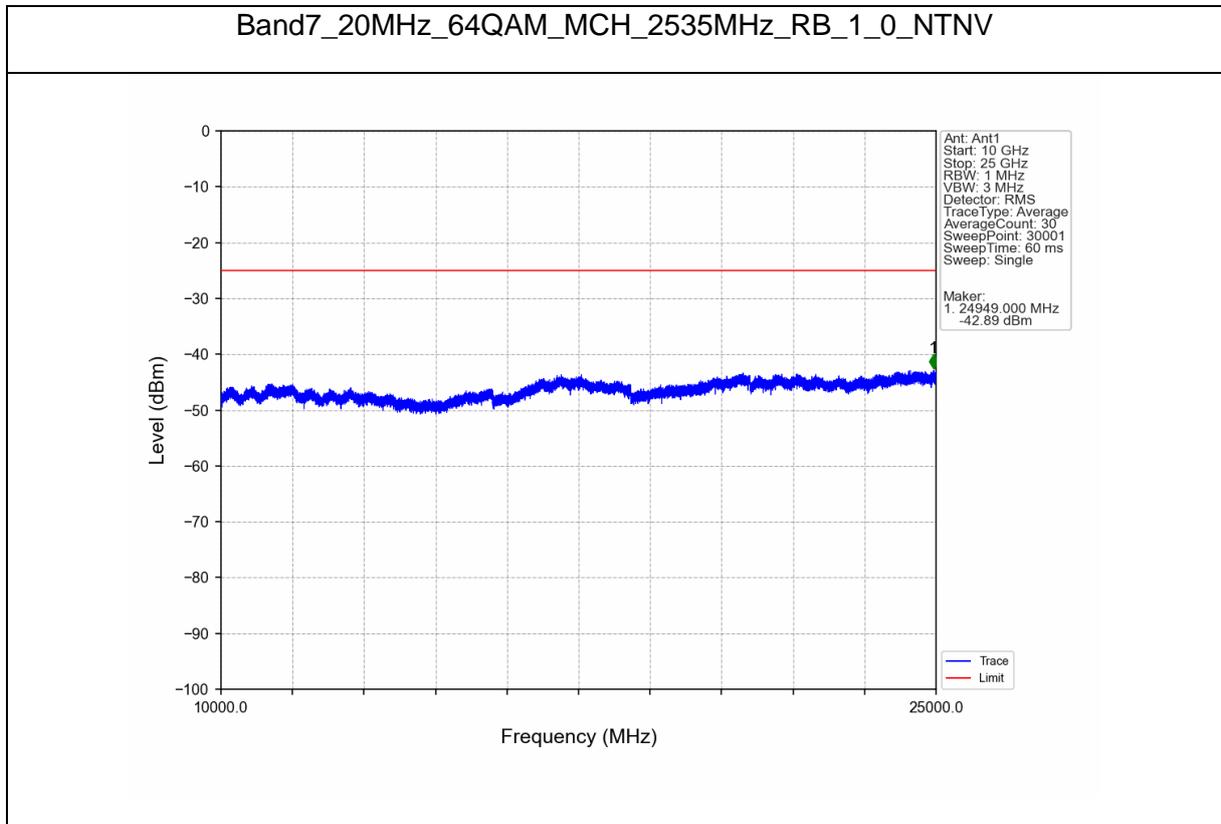
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.495	-41.63	-25	Pass
2490.5	2496	1	CHP	2	2495.920	-35.26	-13	Pass
2496	2499	1	CHP	3	2498.475	-31.33	-10	Pass
2499	2500	0.396	CHP	4	2499.945	-31.23	-10	Pass
2500	2520	0.396	CHP	/	/	/	/	/

Band7_20MHz_64QAM_MCH_2535MHz_RB_1_0_NTNV

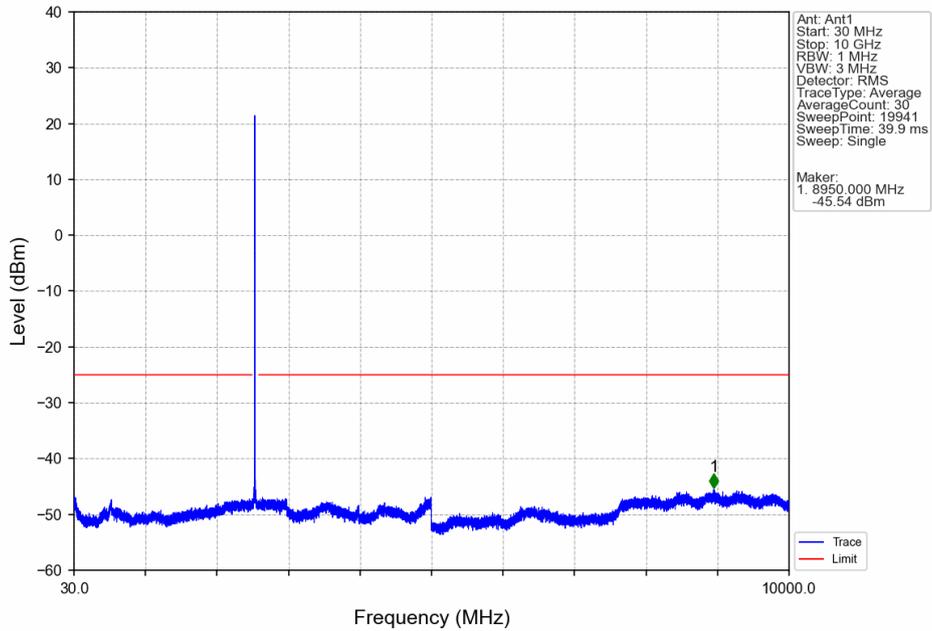




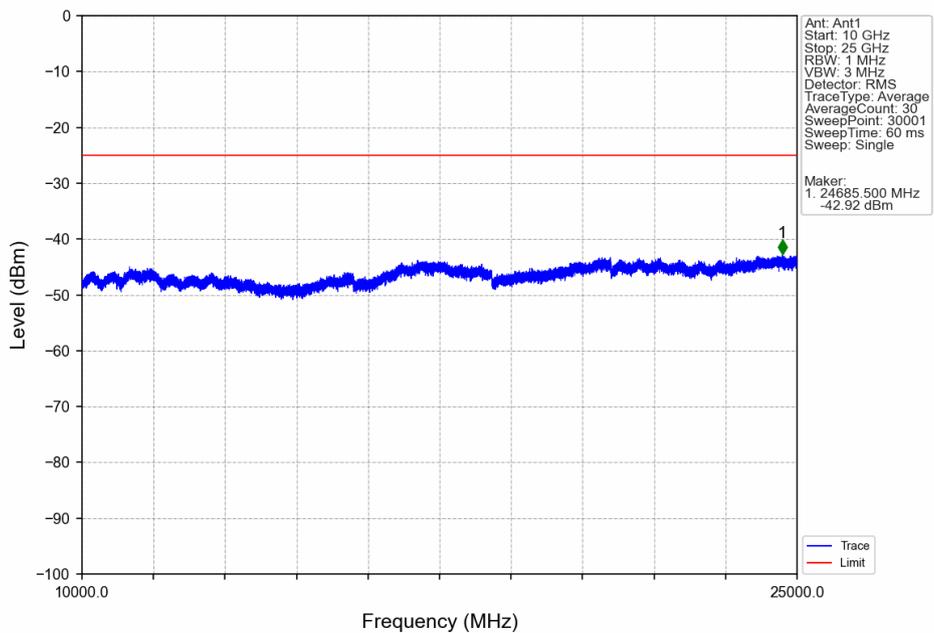
Test Report No.: PSU-NQN2504150110RF04

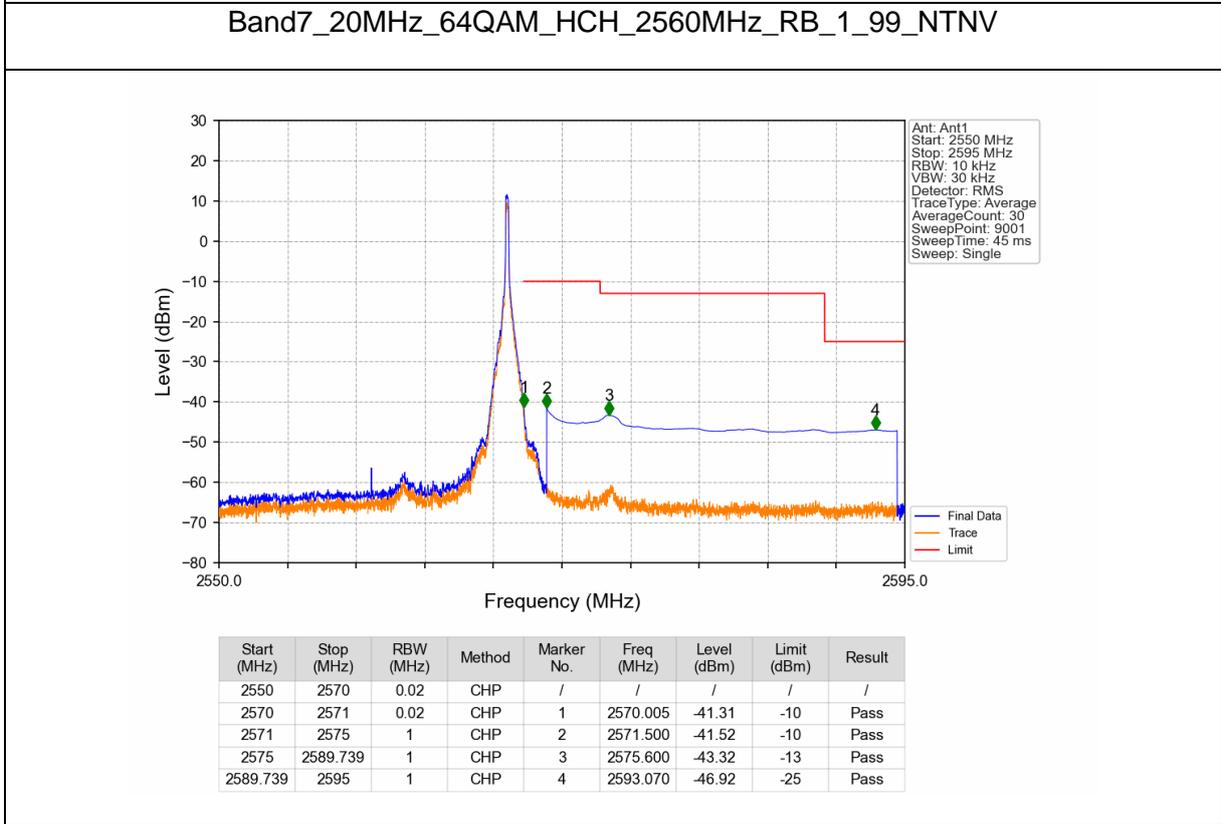
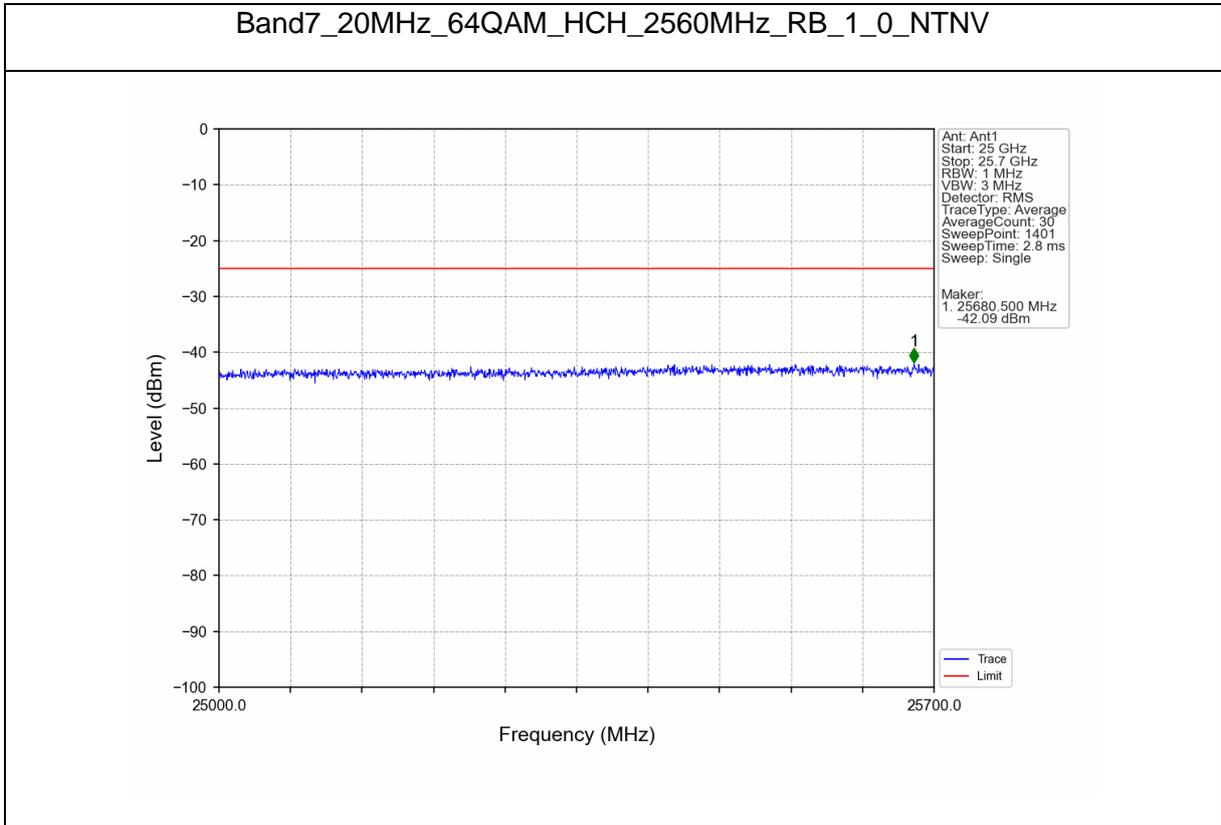


Band7_20MHz_64QAM_HCH_2560MHz_RB_1_0_NTNV



Band7_20MHz_64QAM_HCH_2560MHz_RB_1_0_NTNV

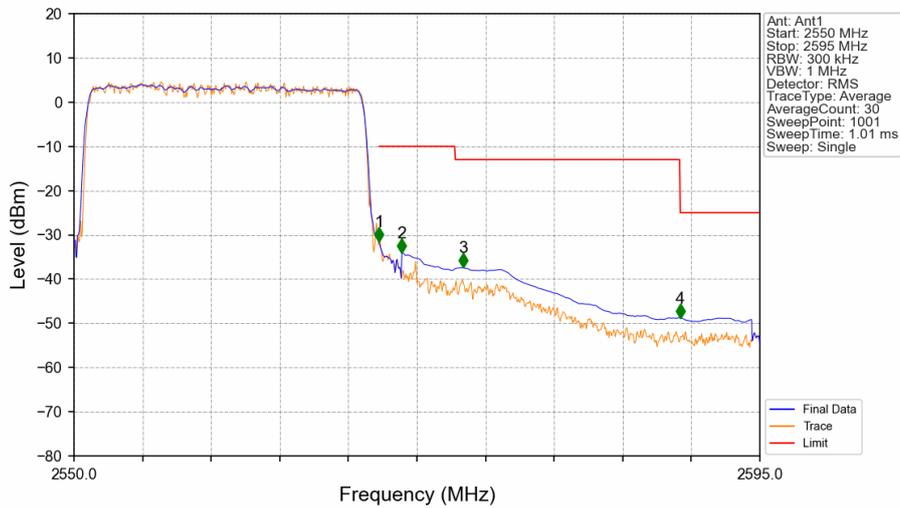






Test Report No.: PSU-NQN2504150110RF04

Band7_20MHz_64QAM_HCH_2560MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2550	2570	0.395	CHP	/	/	/	/	/
2570	2571	0.395	CHP	1	2570.025	-31.50	-10	Pass
2571	2575	1	CHP	2	2571.510	-33.97	-10	Pass
2575	2589.739	1	CHP	3	2575.515	-37.39	-13	Pass
2589.739	2595	1	CHP	4	2589.780	-48.79	-25	Pass



FREQUENCY STABILITY

Test Result

B7_5MHz

Band: 7 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2502.5	25	0	20	3.4	1.500	0.0006	-2.5 to 2.5	Pass	
					4	-3.000	-0.0012	-2.5 to 2.5	Pass	
					4.6	-1.100	-0.0004	-2.5 to 2.5	Pass	
				5	4	-1.900	-0.0008	-2.5 to 2.5	Pass	
					15	4	-9.600	-0.0038	-2.5 to 2.5	Pass
						4	-2.400	-0.0010	-2.5 to 2.5	Pass
	35	4	-0.700	-0.0003	-2.5 to 2.5	Pass				
		20	25	0	3.4	-1.100	-0.0004	-2.5 to 2.5	Pass	
					4	-0.500	-0.0002	-2.5 to 2.5	Pass	
	4.6				-0.300	-0.0001	-2.5 to 2.5	Pass		
	5	4	-0.900	-0.0004	-2.5 to 2.5	Pass				
		15	4	0.300	0.0001	-2.5 to 2.5	Pass			
			4	0.200	0.0001	-2.5 to 2.5	Pass			
	35	4	-0.200	-0.0001	-2.5 to 2.5	Pass				
		20	25	0	3.4	-1.600	-0.0006	-2.5 to 2.5	Pass	
					4	1.300	0.0005	-2.5 to 2.5	Pass	
	4.6				-0.800	-0.0003	-2.5 to 2.5	Pass		
	5	4	-3.400	-0.0013	-2.5 to 2.5	Pass				
		15	4	-1.400	-0.0005	-2.5 to 2.5	Pass			
			4	-0.400	-0.0002	-2.5 to 2.5	Pass			
	35	4	0.300	0.0001	-2.5 to 2.5	Pass				
		20	25	0	3.4	-2.900	-0.0012	-2.5 to 2.5	Pass	
					4	-2.300	-0.0009	-2.5 to 2.5	Pass	
	4.6				-0.300	-0.0001	-2.5 to 2.5	Pass		
5	4	1.100	0.0004	-2.5 to 2.5	Pass					
	15	4	-1.000	-0.0004	-2.5 to 2.5	Pass				
		4	-1.000	-0.0004	-2.5 to 2.5	Pass				
35	4	-0.400	-0.0002	-2.5 to 2.5	Pass					
	20	25	0	3.4	-0.200	-0.0001	-2.5 to 2.5	Pass		
				4	-3.100	-0.0012	-2.5 to 2.5	Pass		
4.6				-3.100	-0.0012	-2.5 to 2.5	Pass			
5	4	-0.800	-0.0003	-2.5 to 2.5	Pass					
	15	4	-1.100	-0.0004	-2.5 to 2.5	Pass				
		4	-1.700	-0.0007	-2.5 to 2.5	Pass				
35	4	-2.500	-0.0010	-2.5 to 2.5	Pass					
	20	25	0	3.4	-1.700	-0.0007	-2.5 to 2.5	Pass		
				4	-2.600	-0.0010	-2.5 to 2.5	Pass		
4.6				-0.200	-0.0001	-2.5 to 2.5	Pass			
5	4	-3.600	-0.0014	-2.5 to 2.5	Pass					
	15	4	-0.100	0.0000	-2.5 to 2.5	Pass				
		4	0.000	0.0000	-2.5 to 2.5	Pass				
35	4	-0.400	-0.0002	-2.5 to 2.5	Pass					
	20	25	0	3.4	-7.800	-0.0031	-2.5 to 2.5	Pass		
				4	11.800	0.0047	-2.5 to 2.5	Pass		
4.6				-19.600	-0.0078	-2.5 to 2.5	Pass			
5	4	-2.200	-0.0009	-2.5 to 2.5	Pass					
	15	4	-7.800	-0.0031	-2.5 to 2.5	Pass				
		4	-10.800	-0.0043	-2.5 to 2.5	Pass				
35	4	-22.700	-0.0091	-2.5 to 2.5	Pass					
	20	25	0	3.4	13.500	0.0053	-2.5 to 2.5	Pass		
				4	14.800	0.0058	-2.5 to 2.5	Pass		



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				4.6	-65.200	-0.0257	-2.5 to 2.5	Pass	
				5	4	-31.800	-0.0125	-2.5 to 2.5	Pass
				15	4	37.200	0.0147	-2.5 to 2.5	Pass
				25	4	-5.800	-0.0023	-2.5 to 2.5	Pass
				35	4	-15.600	-0.0062	-2.5 to 2.5	Pass
	2567.5	25	0	20	3.4	-3.500	-0.0014	-2.5 to 2.5	Pass
					4	15.600	0.0061	-2.5 to 2.5	Pass
					4.6	-23.300	-0.0091	-2.5 to 2.5	Pass
				5	4	27.900	0.0109	-2.5 to 2.5	Pass
				15	4	-20.000	-0.0078	-2.5 to 2.5	Pass
				25	4	40.600	0.0158	-2.5 to 2.5	Pass
				35	4	-30.400	-0.0118	-2.5 to 2.5	Pass

B7_10MHz

Band: 7 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2505	50	0	20	3.4	2.800	0.0011	-2.5 to 2.5	Pass
					4	-3.000	-0.0012	-2.5 to 2.5	Pass
					4.6	-2.400	-0.0010	-2.5 to 2.5	Pass
				5	4	-1.400	-0.0006	-2.5 to 2.5	Pass
				15	4	-1.600	-0.0006	-2.5 to 2.5	Pass
				25	4	-0.500	-0.0002	-2.5 to 2.5	Pass
	2535	50	0	20	3.4	0.400	0.0002	-2.5 to 2.5	Pass
					4	-1.000	-0.0004	-2.5 to 2.5	Pass
					4.6	-1.800	-0.0007	-2.5 to 2.5	Pass
				5	4	-0.500	-0.0002	-2.5 to 2.5	Pass
				15	4	-0.400	-0.0002	-2.5 to 2.5	Pass
				25	4	-1.800	-0.0007	-2.5 to 2.5	Pass
	2565	50	0	20	3.4	-2.100	-0.0008	-2.5 to 2.5	Pass
					4	-0.100	0.0000	-2.5 to 2.5	Pass
					4.6	-0.700	-0.0003	-2.5 to 2.5	Pass
				5	4	-3.600	-0.0014	-2.5 to 2.5	Pass
				15	4	-2.700	-0.0011	-2.5 to 2.5	Pass
				25	4	-3.900	-0.0015	-2.5 to 2.5	Pass
16QAM	2505	50	0	20	3.4	-1.000	-0.0004	-2.5 to 2.5	Pass
					4	-1.200	-0.0005	-2.5 to 2.5	Pass
					4.6	-1.900	-0.0008	-2.5 to 2.5	Pass
				5	4	-1.000	-0.0004	-2.5 to 2.5	Pass
				15	4	-1.100	-0.0004	-2.5 to 2.5	Pass
				25	4	-0.400	-0.0002	-2.5 to 2.5	Pass
	2535	50	0	20	3.4	-7.400	-0.0029	-2.5 to 2.5	Pass
					4	-0.700	-0.0003	-2.5 to 2.5	Pass
					4.6	-1.200	-0.0005	-2.5 to 2.5	Pass
				5	4	-2.100	-0.0008	-2.5 to 2.5	Pass
				15	4	-1.200	-0.0005	-2.5 to 2.5	Pass
				25	4	-1.500	-0.0006	-2.5 to 2.5	Pass
	2565	50	0	20	3.4	-1.900	-0.0007	-2.5 to 2.5	Pass
					4	-1.600	-0.0006	-2.5 to 2.5	Pass
					4.6	-2.200	-0.0009	-2.5 to 2.5	Pass
				5	4	-1.100	-0.0004	-2.5 to 2.5	Pass
				15	4	-0.300	-0.0001	-2.5 to 2.5	Pass
				25	4	-3.000	-0.0012	-2.5 to 2.5	Pass
64QAM	2505	50	0	20	3.4	-5.700	-0.0023	-2.5 to 2.5	Pass



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				4	0.000	0.0000	-2.5 to 2.5	Pass		
				4.6	9.200	0.0037	-2.5 to 2.5	Pass		
				5	4	-3.700	-0.0015	-2.5 to 2.5	Pass	
				15	4	-0.200	-0.0001	-2.5 to 2.5	Pass	
				25	4	25.400	0.0101	-2.5 to 2.5	Pass	
				35	4	1.400	0.0006	-2.5 to 2.5	Pass	
	2535	50	0	20	3.4	-22.800	-0.0090	-2.5 to 2.5	Pass	
					4	-32.500	-0.0128	-2.5 to 2.5	Pass	
					4.6	4.200	0.0017	-2.5 to 2.5	Pass	
					5	4	13.800	0.0054	-2.5 to 2.5	Pass
					15	4	-18.000	-0.0071	-2.5 to 2.5	Pass
					25	4	-10.800	-0.0043	-2.5 to 2.5	Pass
	2565	50	0	35	4	-20.900	-0.0082	-2.5 to 2.5	Pass	
					20	3.4	20.200	0.0079	-2.5 to 2.5	Pass
						4	-34.900	-0.0136	-2.5 to 2.5	Pass
						4.6	-15.500	-0.0060	-2.5 to 2.5	Pass
					5	4	24.700	0.0096	-2.5 to 2.5	Pass
					15	4	2.200	0.0009	-2.5 to 2.5	Pass
	25	4	19.100	0.0074	-2.5 to 2.5	Pass				
35	4	14.900	0.0058	-2.5 to 2.5	Pass					

B7_15MHz

Band: 7 / Bandwidth: 15MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2507.5	75	0	20	3.4	-4.800	-0.0019	-2.5 to 2.5	Pass	
					4	1.500	0.0006	-2.5 to 2.5	Pass	
					4.6	2.000	0.0008	-2.5 to 2.5	Pass	
				5	4	1.200	0.0005	-2.5 to 2.5	Pass	
				15	4	0.500	0.0002	-2.5 to 2.5	Pass	
				25	4	0.200	0.0001	-2.5 to 2.5	Pass	
	2535	75	0	20	3.4	-1.100	-0.0004	-2.5 to 2.5	Pass	
					4	-1.400	-0.0006	-2.5 to 2.5	Pass	
					4.6	1.300	0.0005	-2.5 to 2.5	Pass	
				5	4	-1.900	-0.0007	-2.5 to 2.5	Pass	
				15	4	-3.200	-0.0013	-2.5 to 2.5	Pass	
				25	4	-2.000	-0.0008	-2.5 to 2.5	Pass	
	2562.5	75	0	20	3.4	-0.500	-0.0002	-2.5 to 2.5	Pass	
					4	-2.500	-0.0010	-2.5 to 2.5	Pass	
					4.6	-5.500	-0.0021	-2.5 to 2.5	Pass	
				5	4	-8.500	-0.0033	-2.5 to 2.5	Pass	
				15	4	-4.700	-0.0018	-2.5 to 2.5	Pass	
				25	4	-4.200	-0.0016	-2.5 to 2.5	Pass	
	16QAM	2507.5	75	0	20	3.4	0.000	0.0000	-2.5 to 2.5	Pass
						4	1.000	0.0004	-2.5 to 2.5	Pass
						4.6	-1.000	-0.0004	-2.5 to 2.5	Pass
					5	4	0.600	0.0002	-2.5 to 2.5	Pass
					15	4	4.200	0.0017	-2.5 to 2.5	Pass
					25	4	2.900	0.0012	-2.5 to 2.5	Pass
2535		75	0	20	3.4	0.100	0.0000	-2.5 to 2.5	Pass	
					4	-1.500	-0.0006	-2.5 to 2.5	Pass	
					4.6	0.500	0.0002	-2.5 to 2.5	Pass	
				5	4	1.400	0.0006	-2.5 to 2.5	Pass	
				15	4	1.300	0.0005	-2.5 to 2.5	Pass	
				25	4	-0.700	-0.0003	-2.5 to 2.5	Pass	
		35	4	-0.800	-0.0003	-2.5 to 2.5	Pass			



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64QAM	2562.5	75	0	20	3.4	-0.900	-0.0004	-2.5 to 2.5	Pass	
					4	-1.100	-0.0004	-2.5 to 2.5	Pass	
					4.6	-2.900	-0.0011	-2.5 to 2.5	Pass	
				5	4	-2.000	-0.0008	-2.5 to 2.5	Pass	
					15	4	-3.300	-0.0013	-2.5 to 2.5	Pass
					25	4	-3.200	-0.0012	-2.5 to 2.5	Pass
	2507.5	75	0	20	3.4	-3.500	-0.0014	-2.5 to 2.5	Pass	
					4	-2.900	-0.0012	-2.5 to 2.5	Pass	
					4.6	-20.100	-0.0080	-2.5 to 2.5	Pass	
				5	4	-5.200	-0.0021	-2.5 to 2.5	Pass	
					15	4	-19.900	-0.0079	-2.5 to 2.5	Pass
					25	4	-8.100	-0.0032	-2.5 to 2.5	Pass
		2535	75	0	20	3.4	-17.000	-0.0067	-2.5 to 2.5	Pass
						4	6.800	0.0027	-2.5 to 2.5	Pass
						4.6	2.700	0.0011	-2.5 to 2.5	Pass
5	4	13.200			0.0052	-2.5 to 2.5	Pass			
	15	4			-17.100	-0.0067	-2.5 to 2.5	Pass		
	25	4			-6.300	-0.0025	-2.5 to 2.5	Pass		
2562.5	75	0	20	3.4	-21.700	-0.0085	-2.5 to 2.5	Pass		
				4	16.200	0.0063	-2.5 to 2.5	Pass		
				4.6	-7.200	-0.0028	-2.5 to 2.5	Pass		
			5	4	-7.000	-0.0027	-2.5 to 2.5	Pass		
				15	4	13.400	0.0052	-2.5 to 2.5	Pass	
				25	4	15.000	0.0059	-2.5 to 2.5	Pass	
			35	4	0.600	0.0002	-2.5 to 2.5	Pass		

B7_20MHz

Band: 7 / Bandwidth: 20MHz											
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict		
		Size	Offset				Result	Limit			
QPSK	2510	100	0	20	3.4	-1.700	-0.0007	-2.5 to 2.5	Pass		
					4	-2.900	-0.0012	-2.5 to 2.5	Pass		
					4.6	-7.800	-0.0031	-2.5 to 2.5	Pass		
				5	4	-1.900	-0.0008	-2.5 to 2.5	Pass		
					15	4	-3.600	-0.0014	-2.5 to 2.5	Pass	
					25	4	-1.900	-0.0008	-2.5 to 2.5	Pass	
	2535	100	0	20	3.4	-4.800	-0.0019	-2.5 to 2.5	Pass		
					4	-0.700	-0.0003	-2.5 to 2.5	Pass		
					4.6	-0.700	-0.0003	-2.5 to 2.5	Pass		
				5	4	0.000	0.0000	-2.5 to 2.5	Pass		
					15	4	0.500	0.0002	-2.5 to 2.5	Pass	
					25	4	-0.200	-0.0001	-2.5 to 2.5	Pass	
	2560	100	0	20	3.4	1.200	0.0005	-2.5 to 2.5	Pass		
					4	3.500	0.0014	-2.5 to 2.5	Pass		
					4.6	-0.400	-0.0002	-2.5 to 2.5	Pass		
				5	4	-0.700	-0.0003	-2.5 to 2.5	Pass		
					15	4	0.000	0.0000	-2.5 to 2.5	Pass	
					25	4	1.000	0.0004	-2.5 to 2.5	Pass	
	16QAM	2510	100	0	20	3.4	-4.600	-0.0018	-2.5 to 2.5	Pass	
						4	-2.300	-0.0009	-2.5 to 2.5	Pass	
						4.6	-3.700	-0.0015	-2.5 to 2.5	Pass	
					5	4	-3.100	-0.0012	-2.5 to 2.5	Pass	
						15	4	0.700	0.0003	-2.5 to 2.5	Pass
						25	4	-1.900	-0.0008	-2.5 to 2.5	Pass



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	2535	100	0	35	4	-2.900	-0.0012	-2.5 to 2.5	Pass
				20	3.4	-4.900	-0.0019	-2.5 to 2.5	Pass
					4	1.000	0.0004	-2.5 to 2.5	Pass
					4.6	-2.400	-0.0009	-2.5 to 2.5	Pass
				5	4	2.000	0.0008	-2.5 to 2.5	Pass
				15	4	-0.300	-0.0001	-2.5 to 2.5	Pass
				25	4	-1.100	-0.0004	-2.5 to 2.5	Pass
	35	4	0.200	0.0001	-2.5 to 2.5	Pass			
	2560	100	0	20	3.4	-0.200	-0.0001	-2.5 to 2.5	Pass
					4	1.200	0.0005	-2.5 to 2.5	Pass
					4.6	0.400	0.0002	-2.5 to 2.5	Pass
				5	4	1.600	0.0006	-2.5 to 2.5	Pass
				15	4	2.700	0.0011	-2.5 to 2.5	Pass
				25	4	0.800	0.0003	-2.5 to 2.5	Pass
35				4	-0.800	-0.0003	-2.5 to 2.5	Pass	
64QAM	2510	100	0	20	3.4	-22.800	-0.0091	-2.5 to 2.5	Pass
					4	7.000	0.0028	-2.5 to 2.5	Pass
					4.6	5.500	0.0022	-2.5 to 2.5	Pass
				5	4	2.400	0.0010	-2.5 to 2.5	Pass
				15	4	-2.500	-0.0010	-2.5 to 2.5	Pass
				25	4	5.000	0.0020	-2.5 to 2.5	Pass
				35	4	-16.100	-0.0064	-2.5 to 2.5	Pass
	2535	100	0	20	3.4	-1.600	-0.0006	-2.5 to 2.5	Pass
					4	13.000	0.0051	-2.5 to 2.5	Pass
					4.6	-5.500	-0.0022	-2.5 to 2.5	Pass
				5	4	9.400	0.0037	-2.5 to 2.5	Pass
				15	4	-6.300	-0.0025	-2.5 to 2.5	Pass
				25	4	-1.000	-0.0004	-2.5 to 2.5	Pass
				35	4	10.100	0.0040	-2.5 to 2.5	Pass
	2560	100	0	20	3.4	20.600	0.0080	-2.5 to 2.5	Pass
					4	9.900	0.0039	-2.5 to 2.5	Pass
					4.6	2.000	0.0008	-2.5 to 2.5	Pass
				5	4	20.500	0.0080	-2.5 to 2.5	Pass
				15	4	6.100	0.0024	-2.5 to 2.5	Pass
				25	4	-15.600	-0.0061	-2.5 to 2.5	Pass
				35	4	8.100	0.0032	-2.5 to 2.5	Pass

LTE BAND12

PEAK-TO-AVERAGE RATIO (CCDF)

Test Result

B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.78	<=13	Pass
	707.5	6	0	4.80	<=13	Pass
	715.3	6	0	4.48	<=13	Pass
16QAM	699.7	6	0	6.16	<=13	Pass
	707.5	6	0	6.12	<=13	Pass
	715.3	6	0	5.74	<=13	Pass
64QAM	699.7	6	0	6.12	<=13	Pass
	707.5	6	0	6.12	<=13	Pass
	715.3	6	0	5.76	<=13	Pass

B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	4.74	<=13	Pass
	707.5	15	0	4.76	<=13	Pass
	714.5	15	0	4.64	<=13	Pass
16QAM	700.5	15	0	6.12	<=13	Pass
	707.5	15	0	6.12	<=13	Pass
	714.5	15	0	5.98	<=13	Pass
64QAM	700.5	15	0	6.10	<=13	Pass
	707.5	15	0	6.12	<=13	Pass
	714.5	15	0	5.96	<=13	Pass

B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	4.86	<=13	Pass
	707.5	25	0	4.92	<=13	Pass
	713.5	25	0	4.98	<=13	Pass
16QAM	701.5	25	0	5.90	<=13	Pass
	707.5	25	0	5.96	<=13	Pass
	713.5	25	0	6.02	<=13	Pass
64QAM	701.5	25	0	5.92	<=13	Pass
	707.5	25	0	5.98	<=13	Pass
	713.5	25	0	5.98	<=13	Pass



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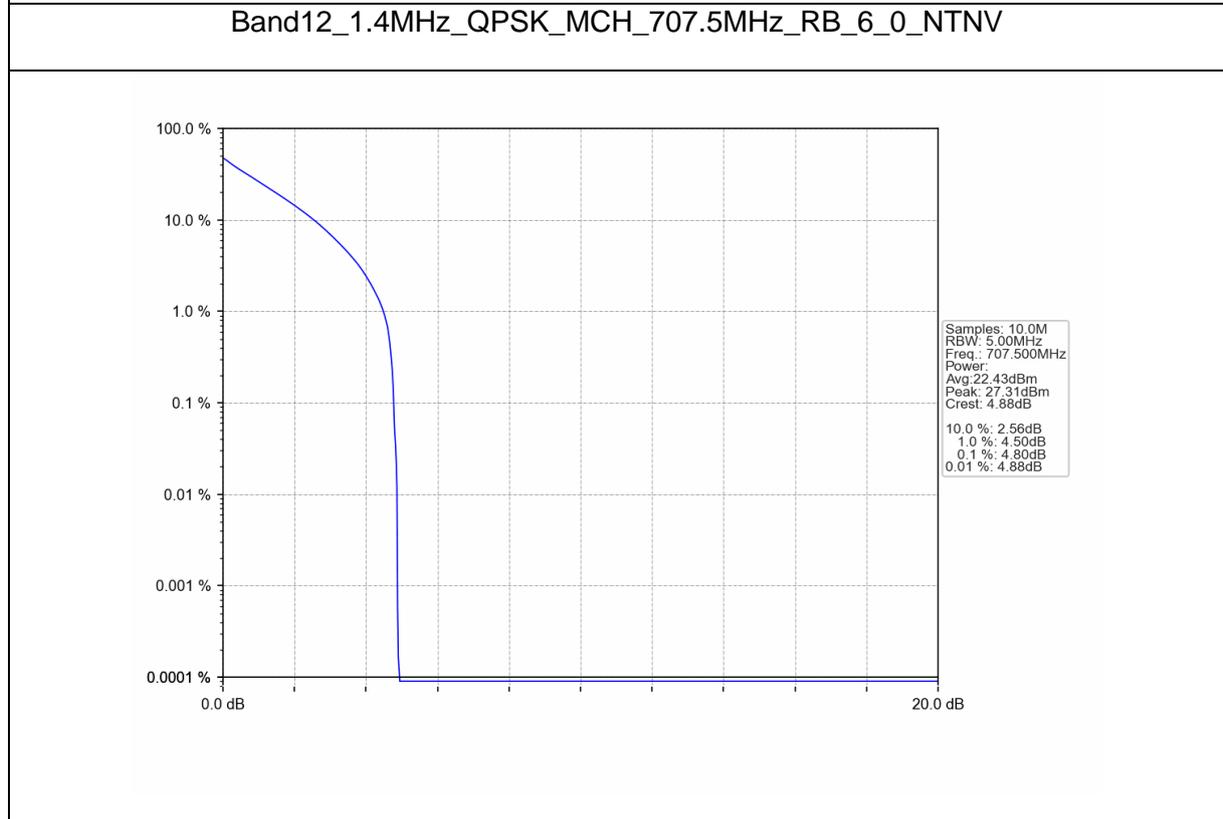
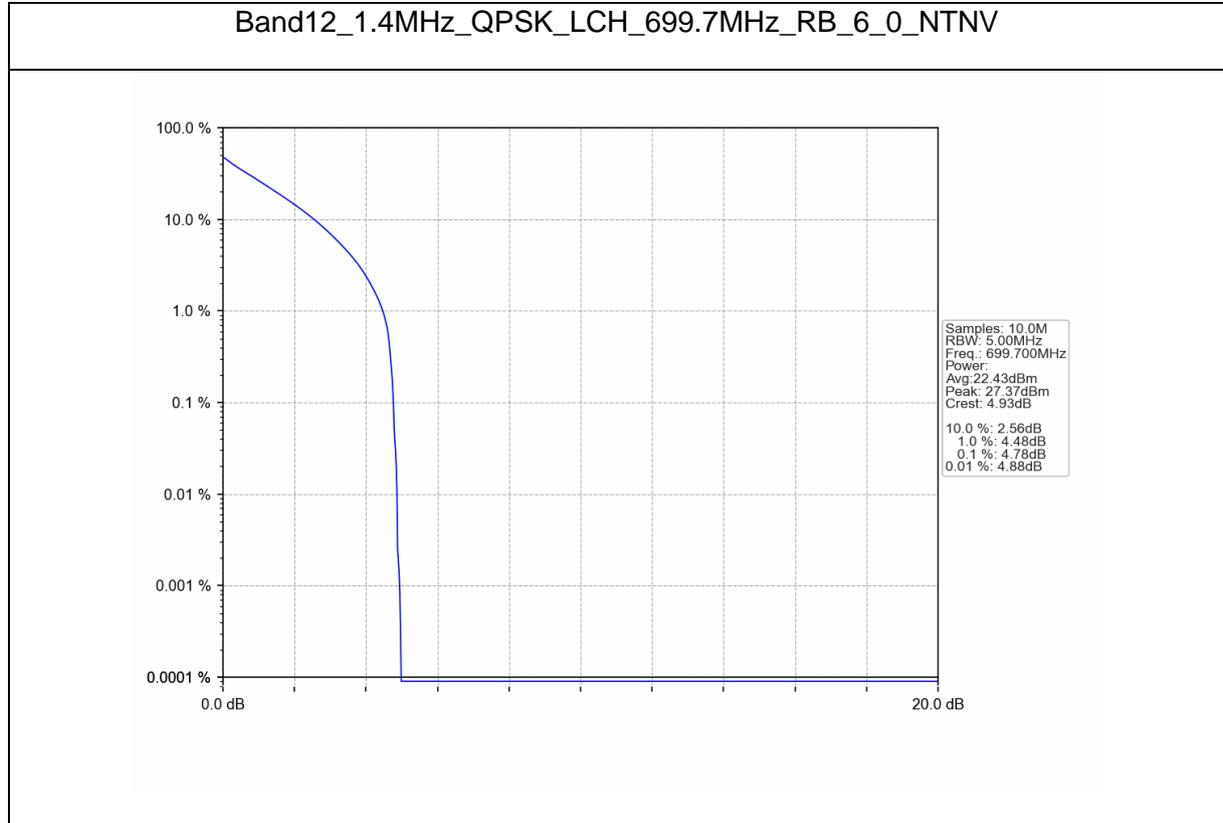
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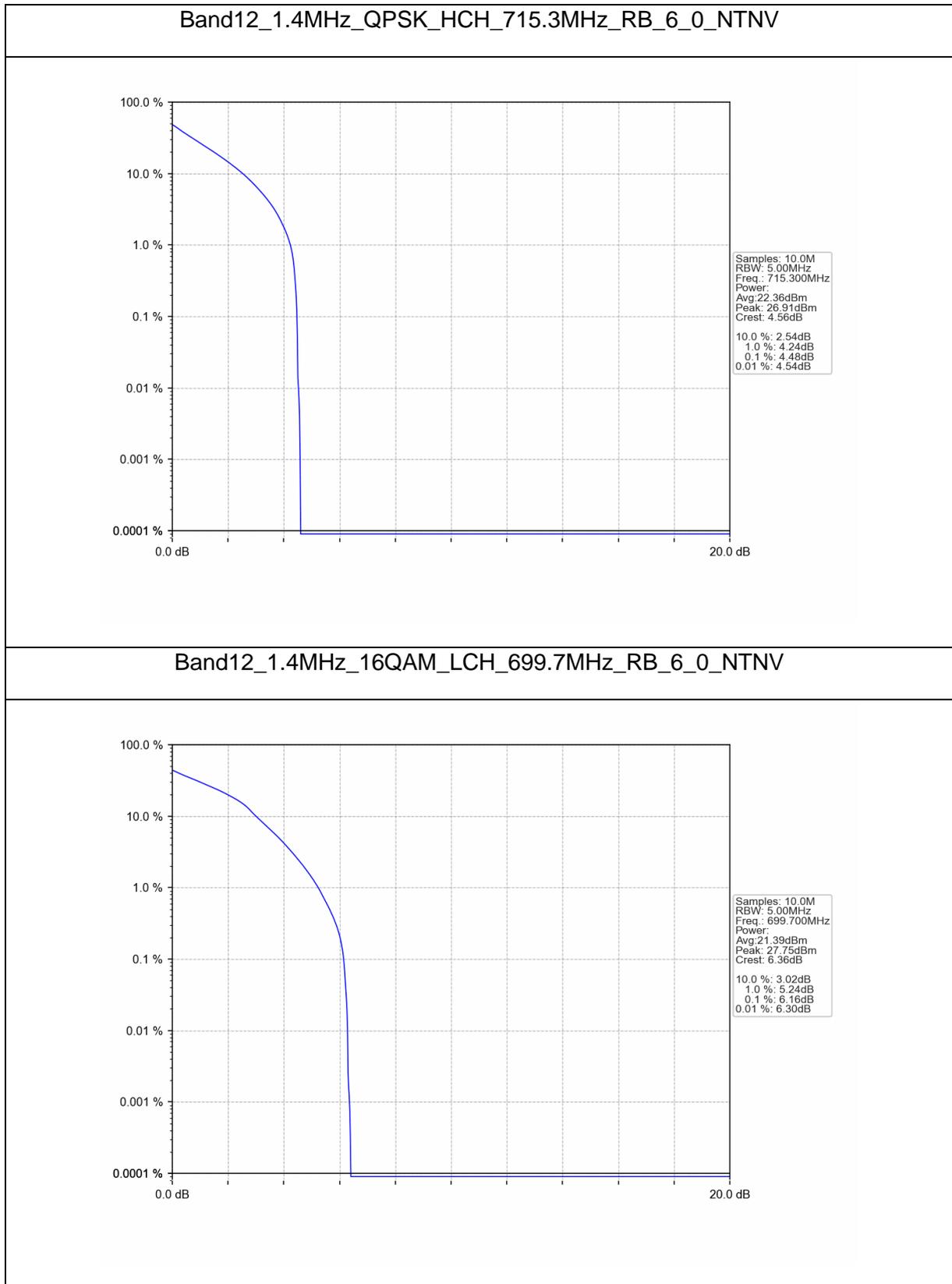
B12_10MHz

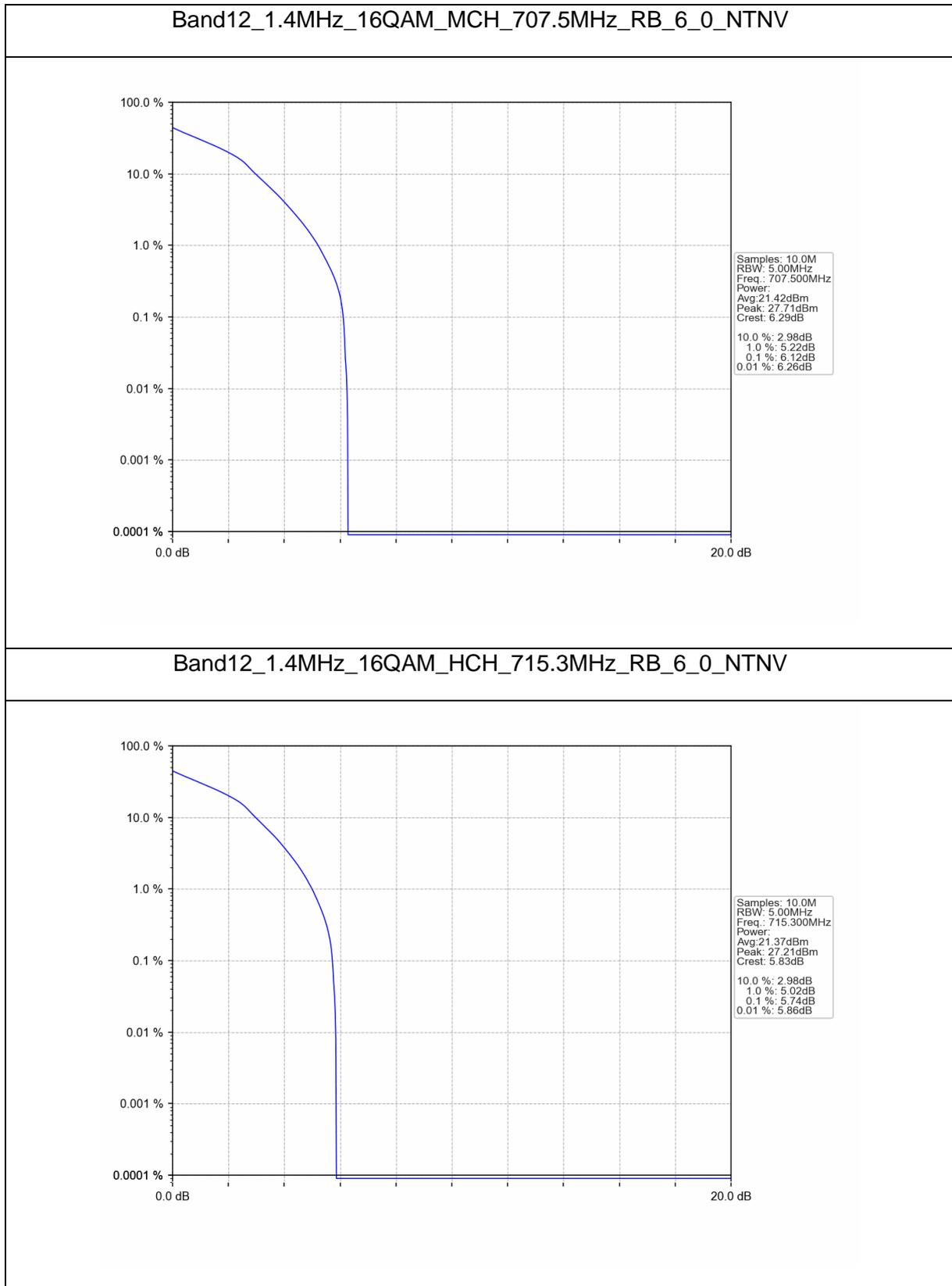
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	4.78	<=13	Pass
	707.5	50	0	4.88	<=13	Pass
	711	50	0	5.12	<=13	Pass
16QAM	704	50	0	5.86	<=13	Pass
	707.5	50	0	5.94	<=13	Pass
	711	50	0	6.12	<=13	Pass
64QAM	704	50	0	5.86	<=13	Pass
	707.5	50	0	5.94	<=13	Pass
	711	50	0	6.14	<=13	Pass

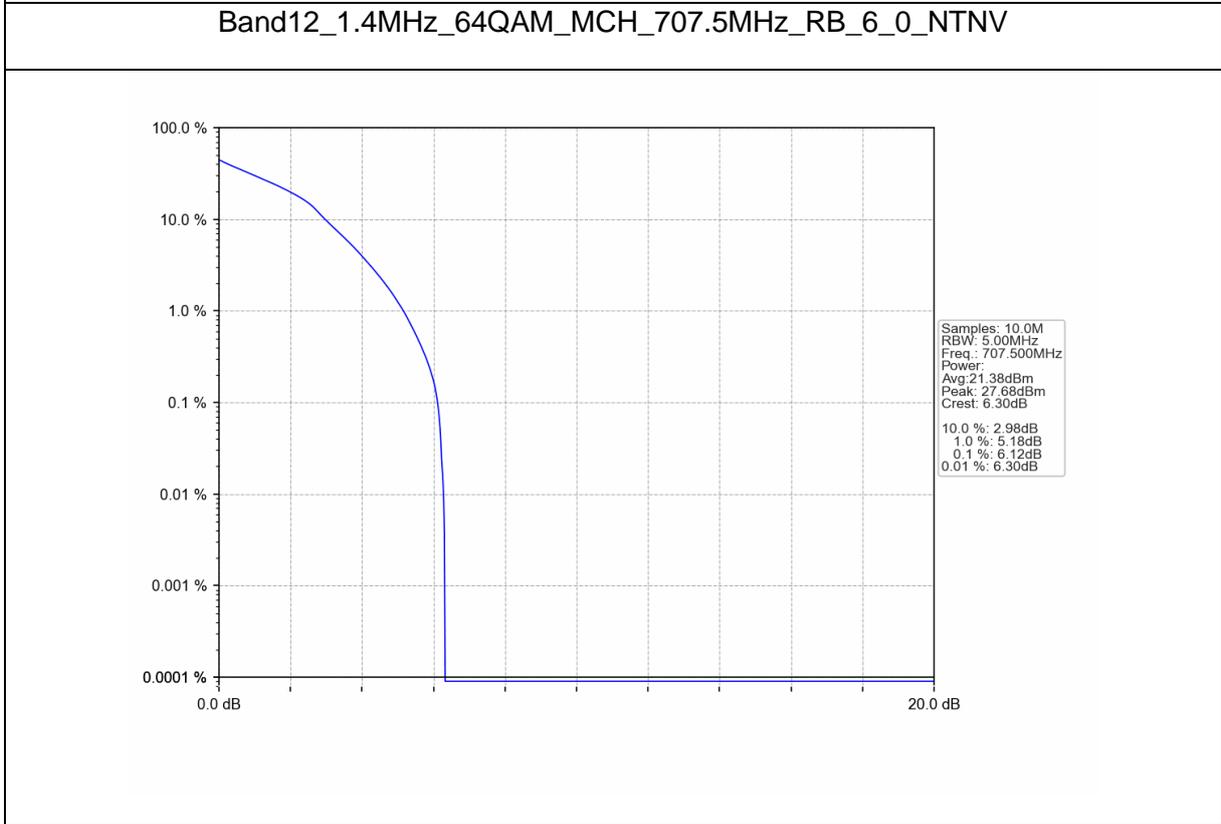
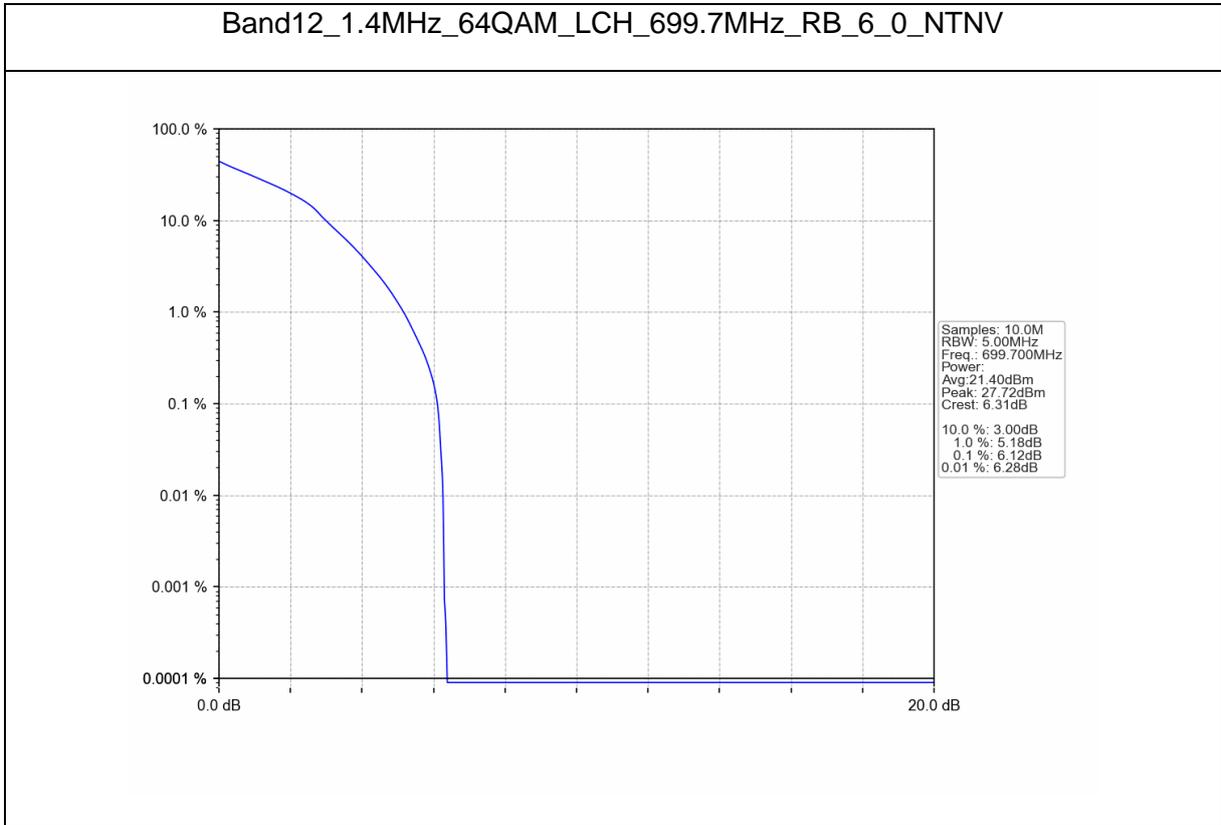
Test Graphs

B12_1.4MHz



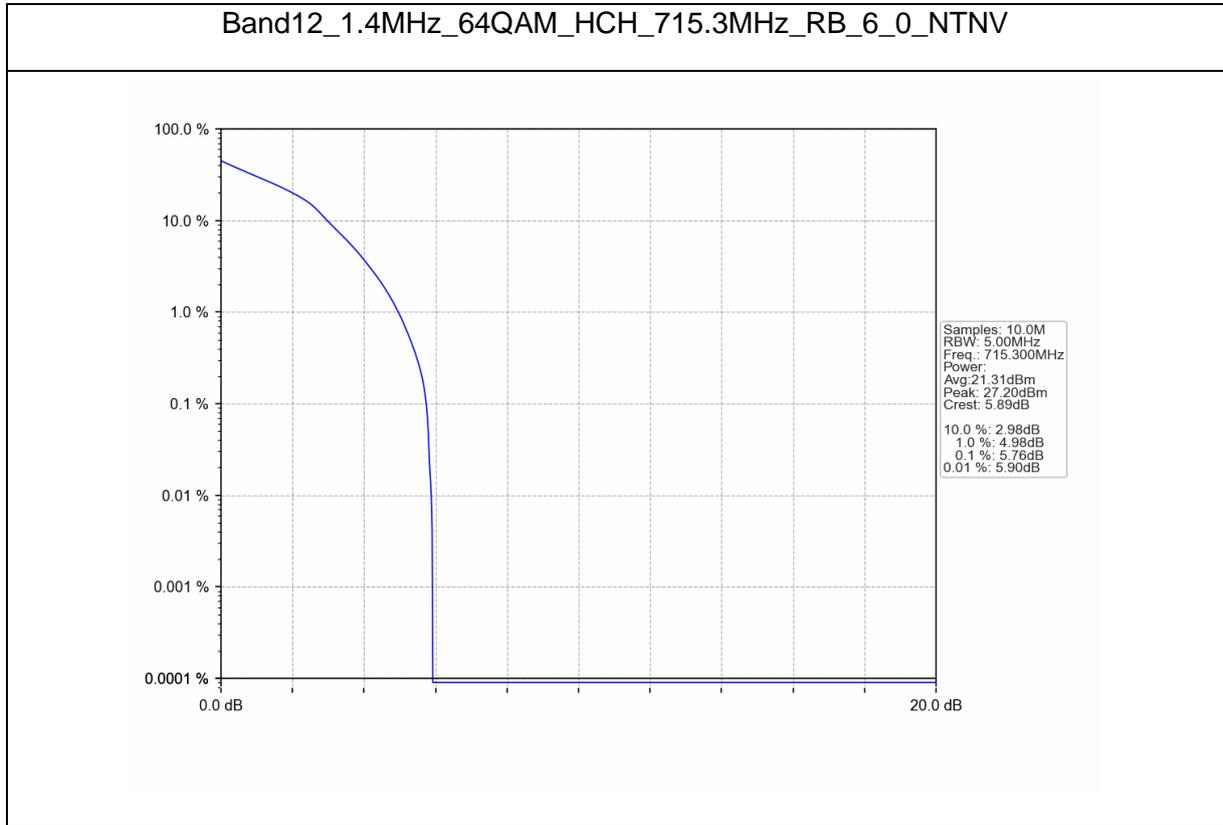








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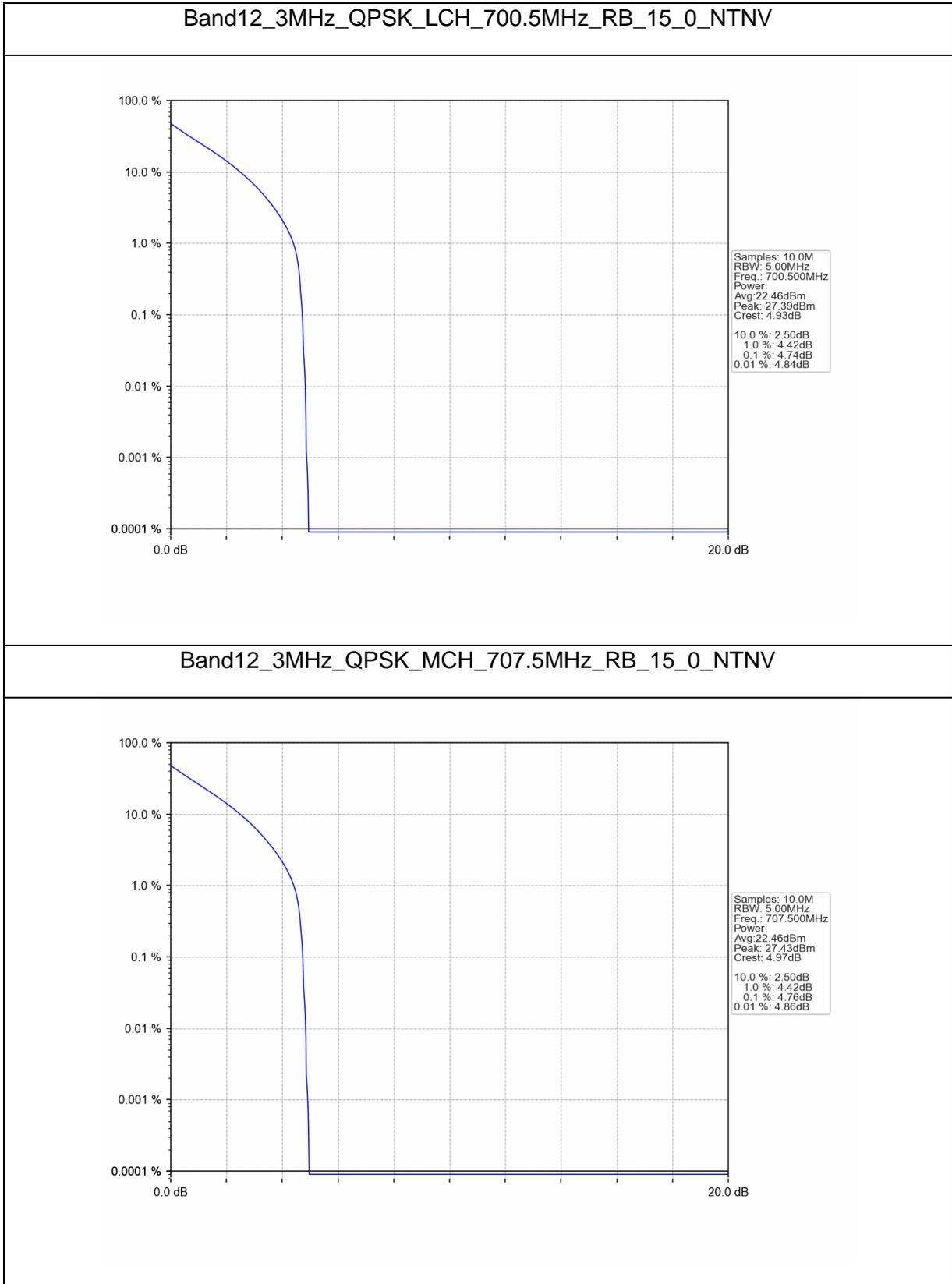




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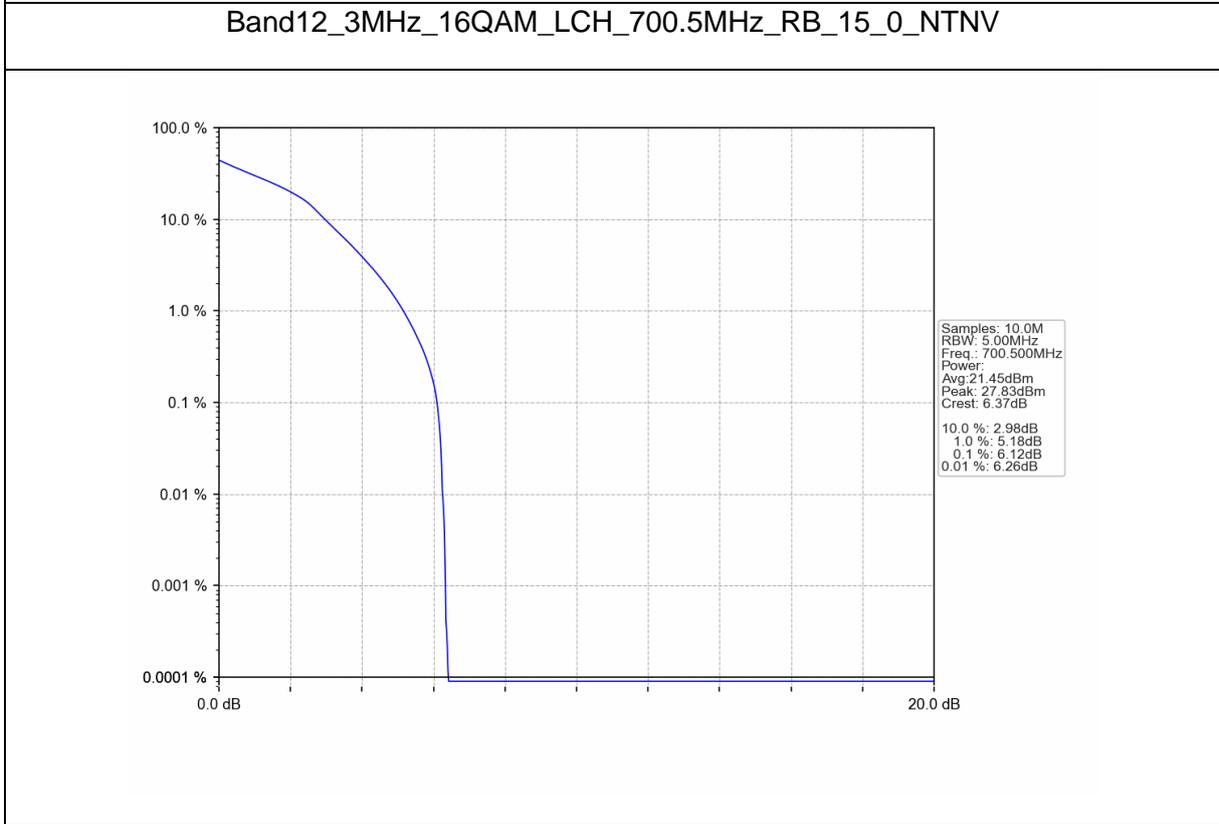
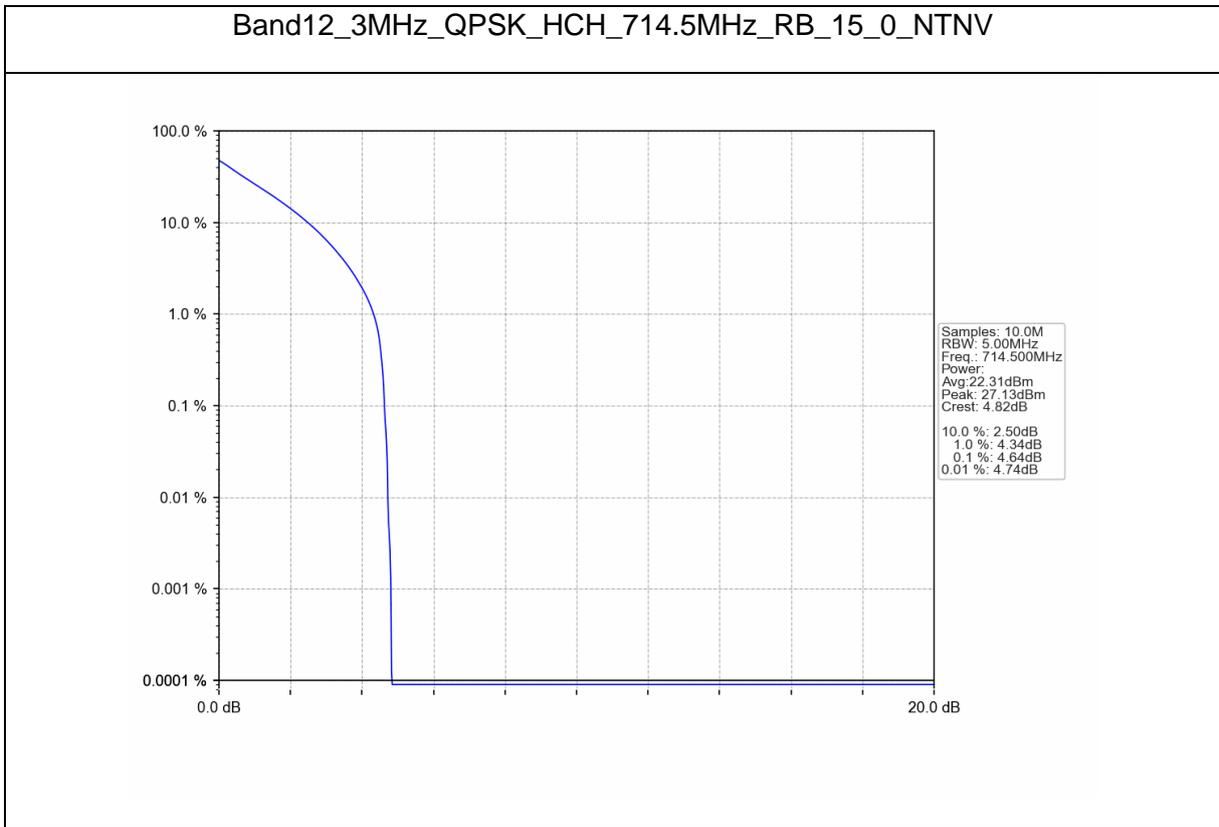
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B12_3MHz



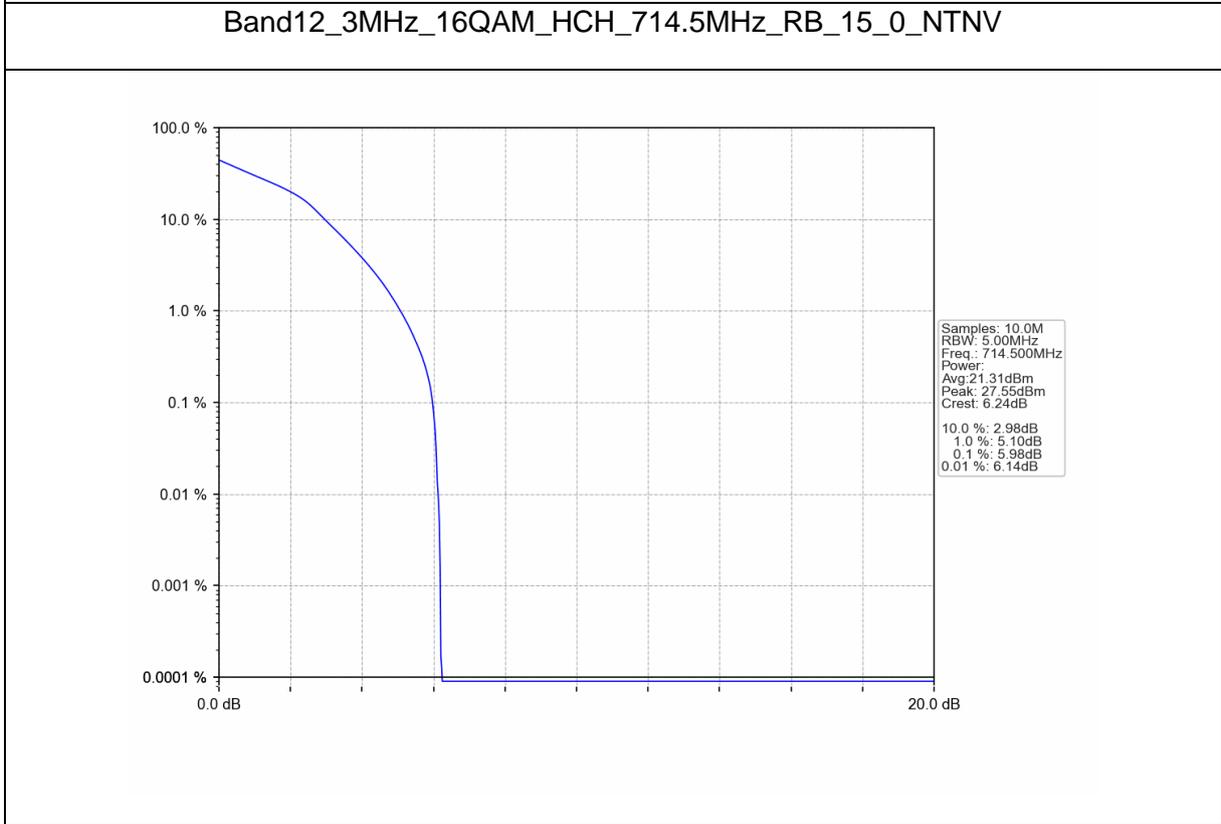
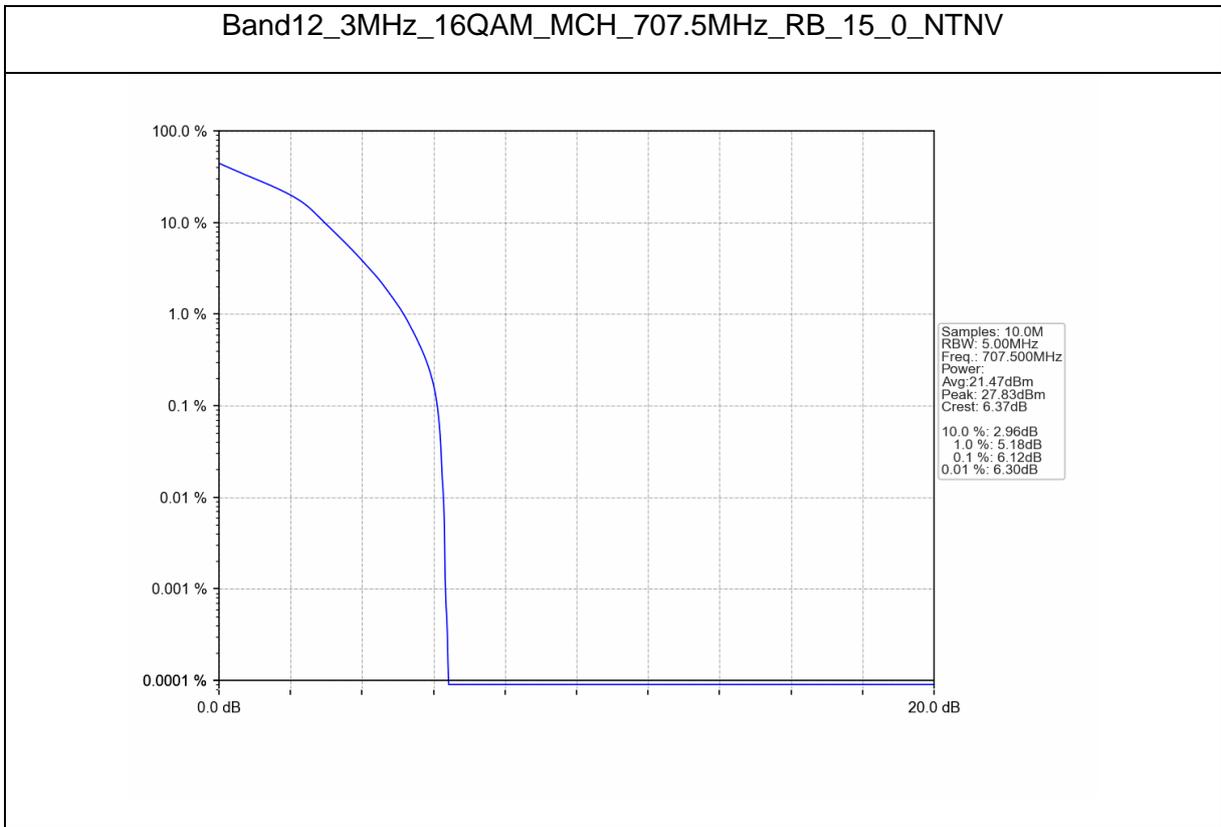


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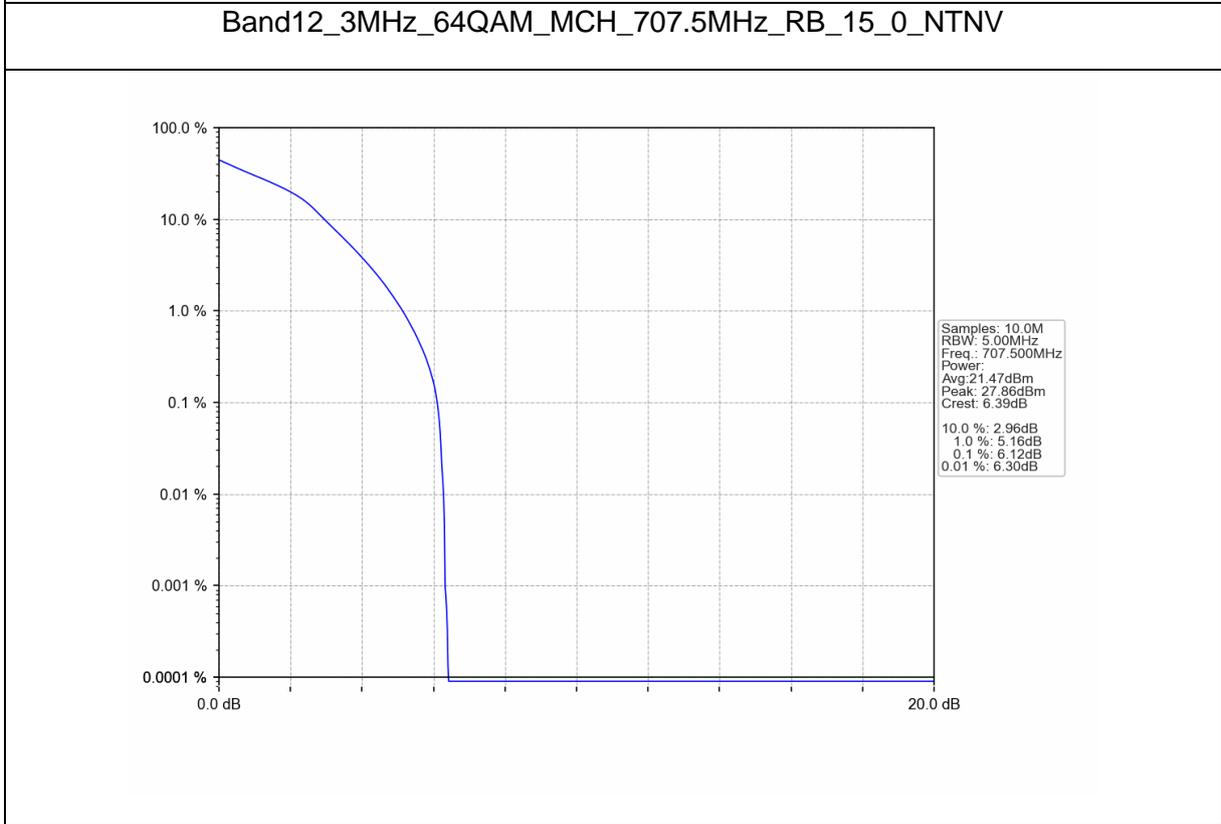
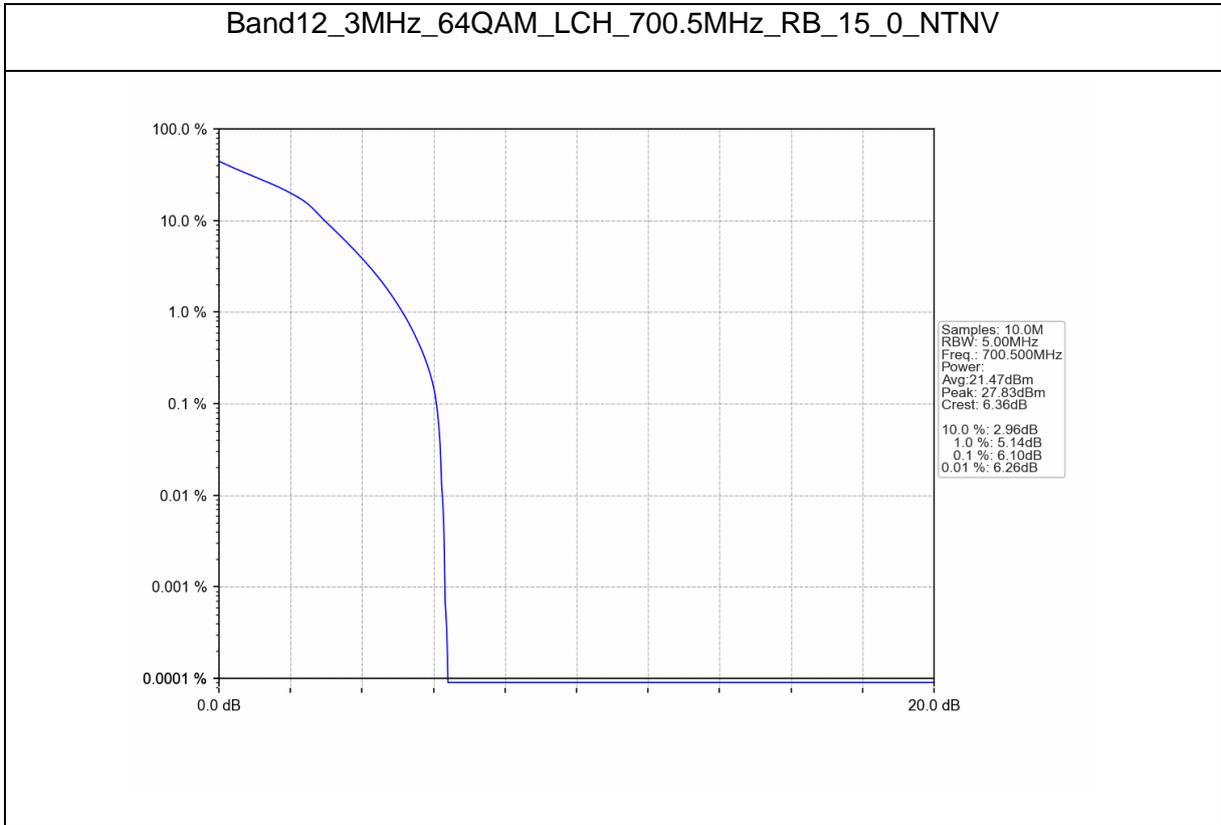


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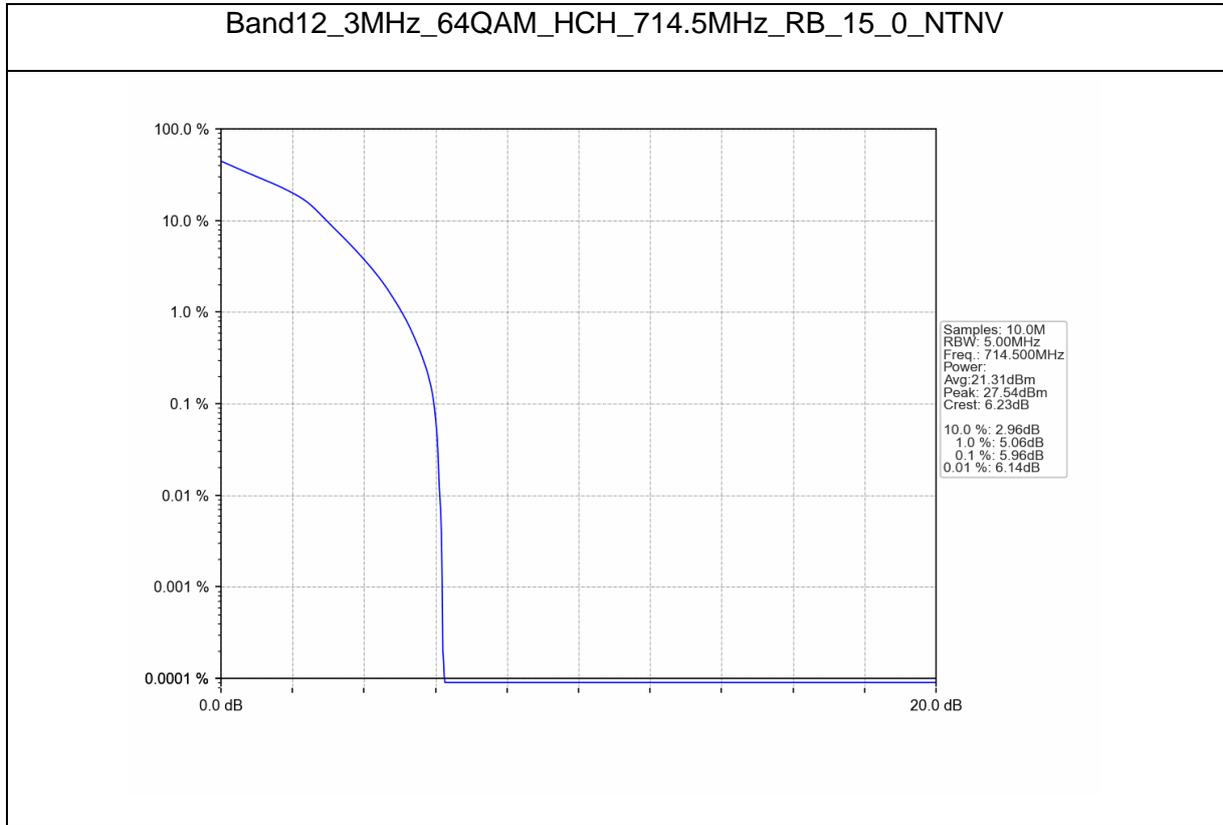


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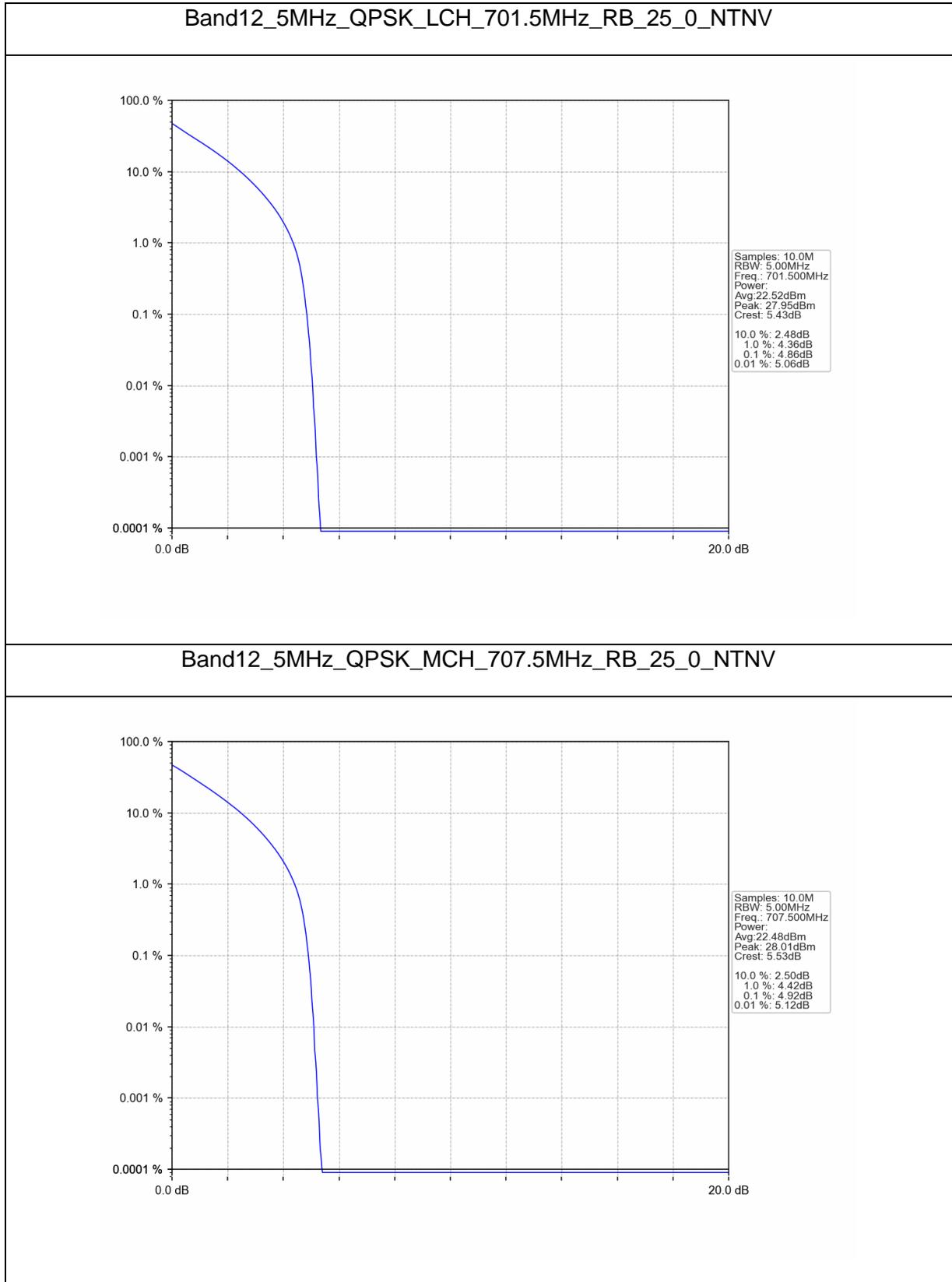


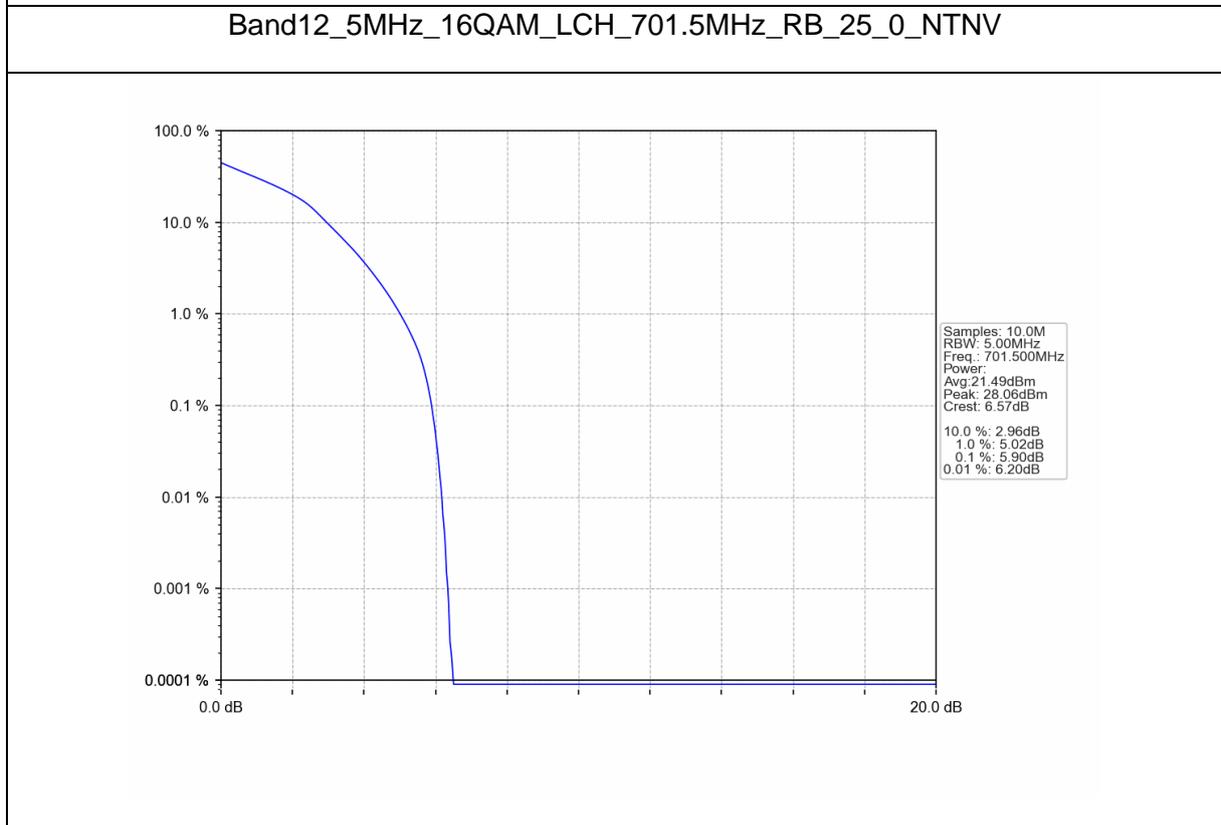
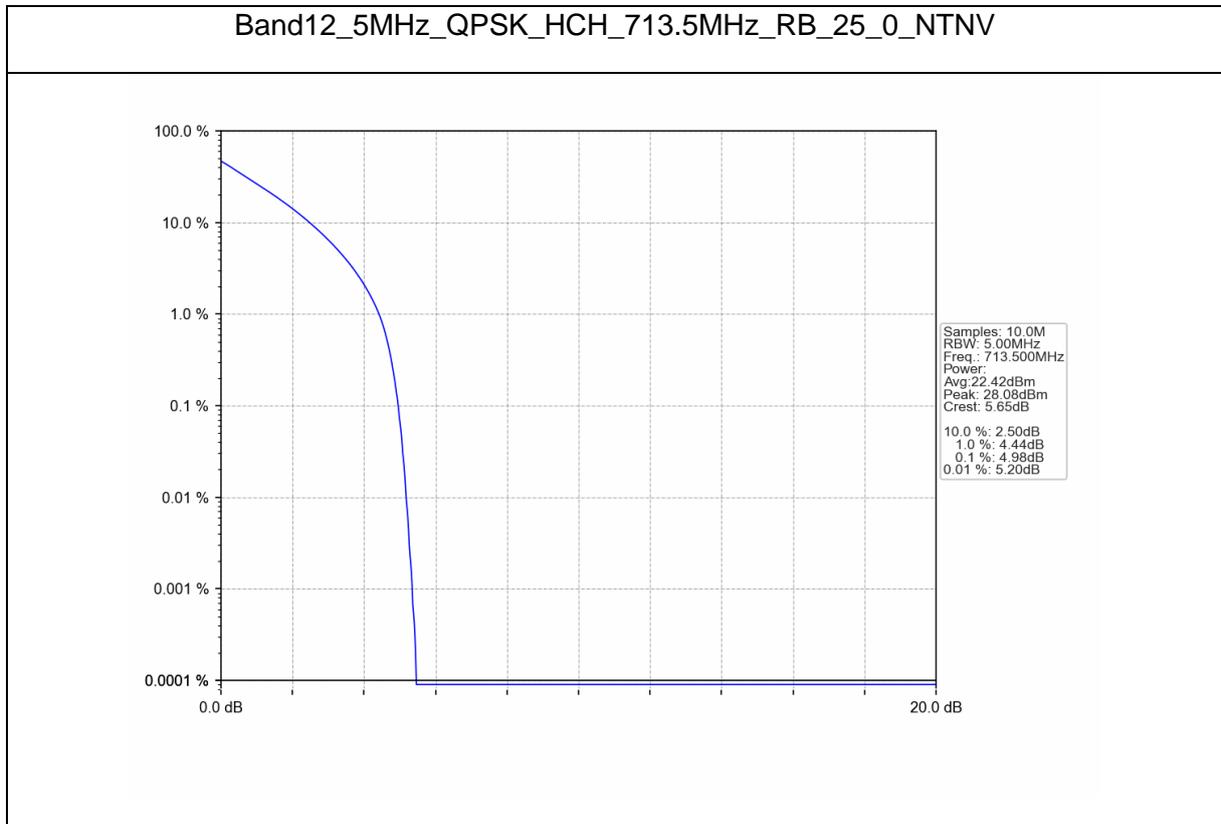


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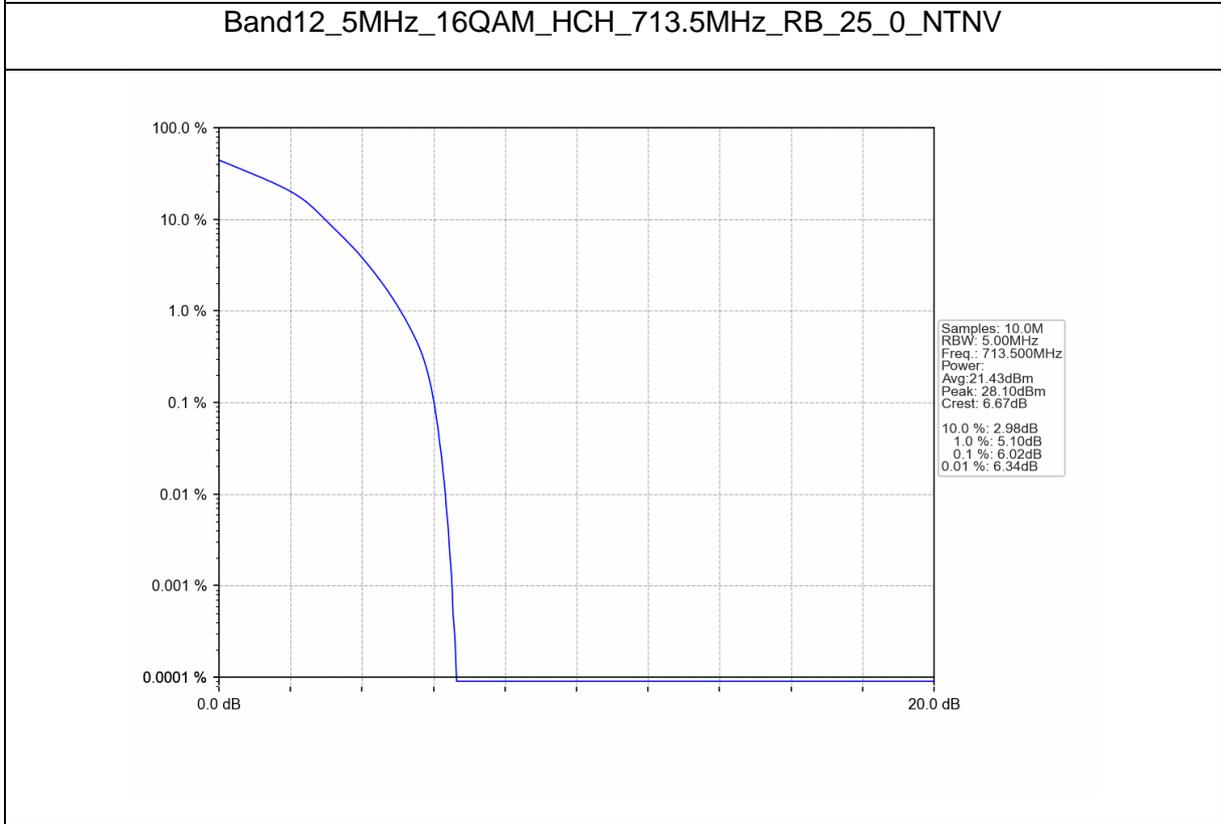
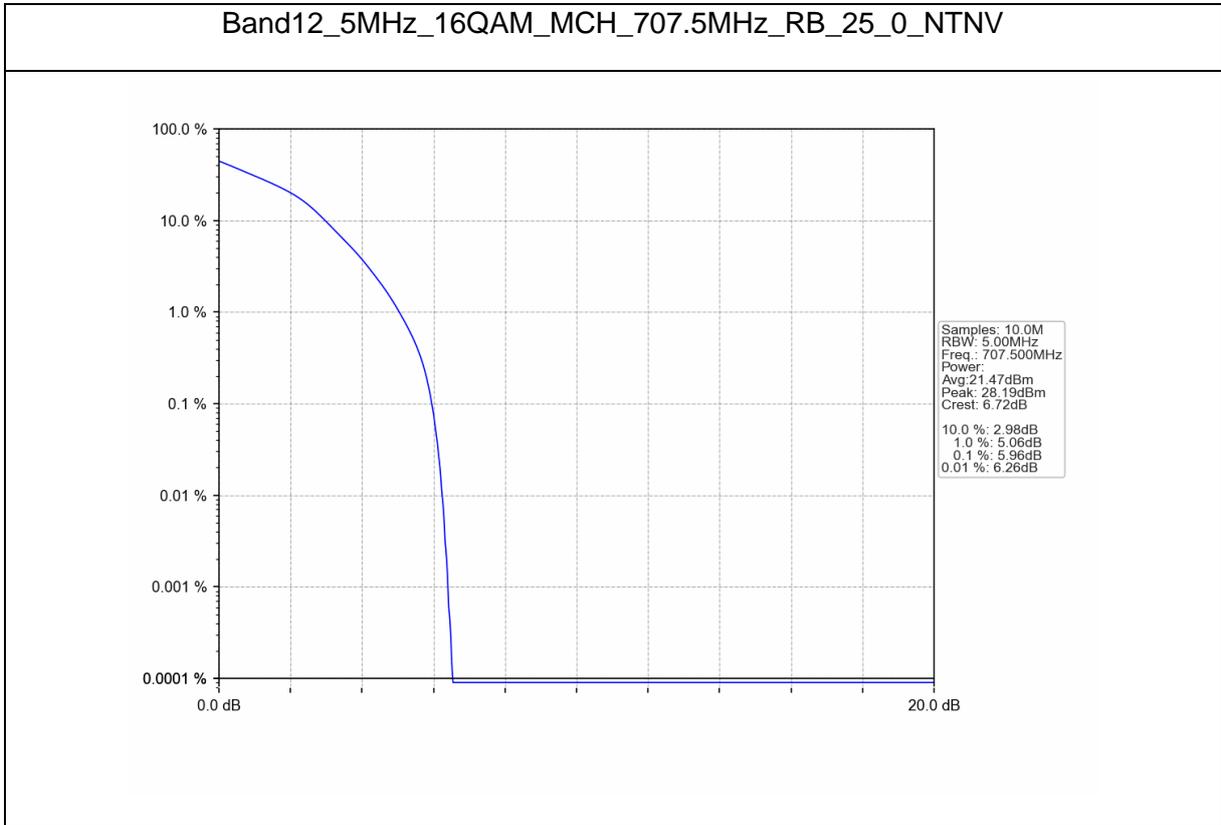
B12_5MHz





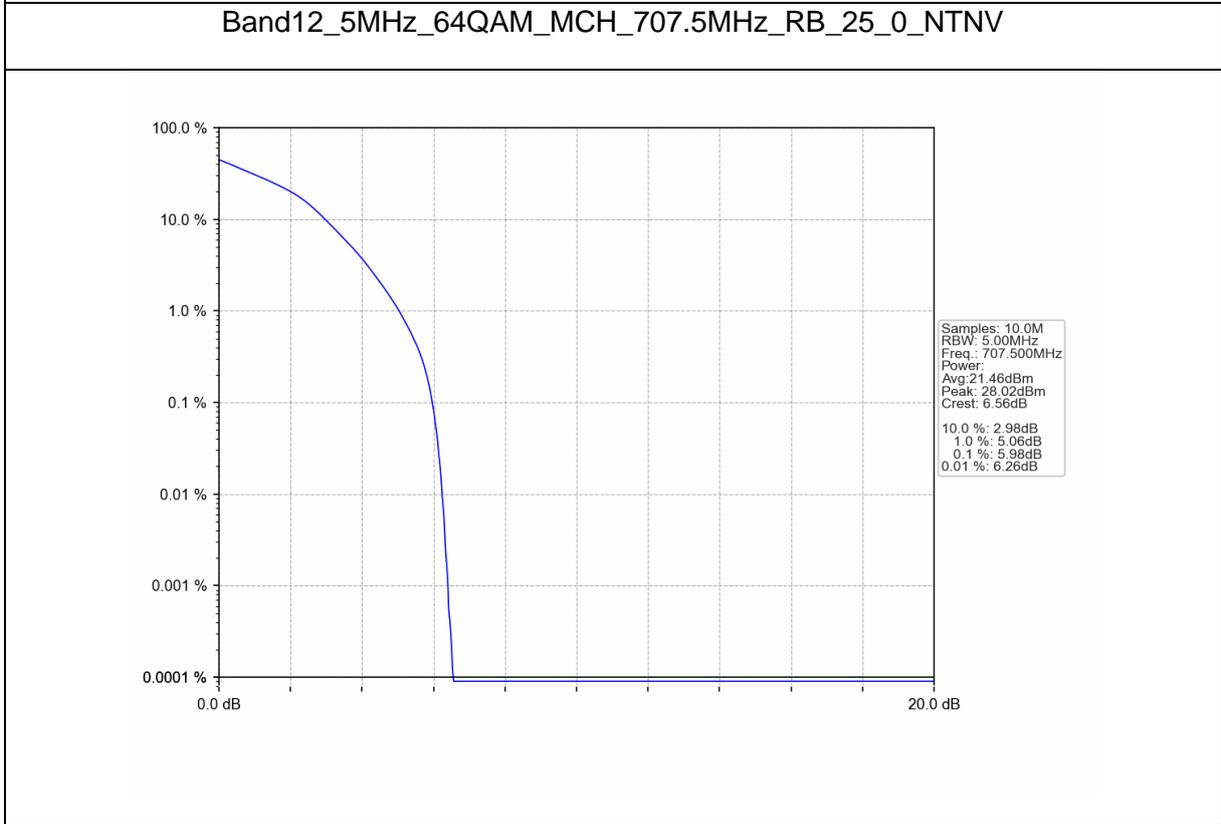
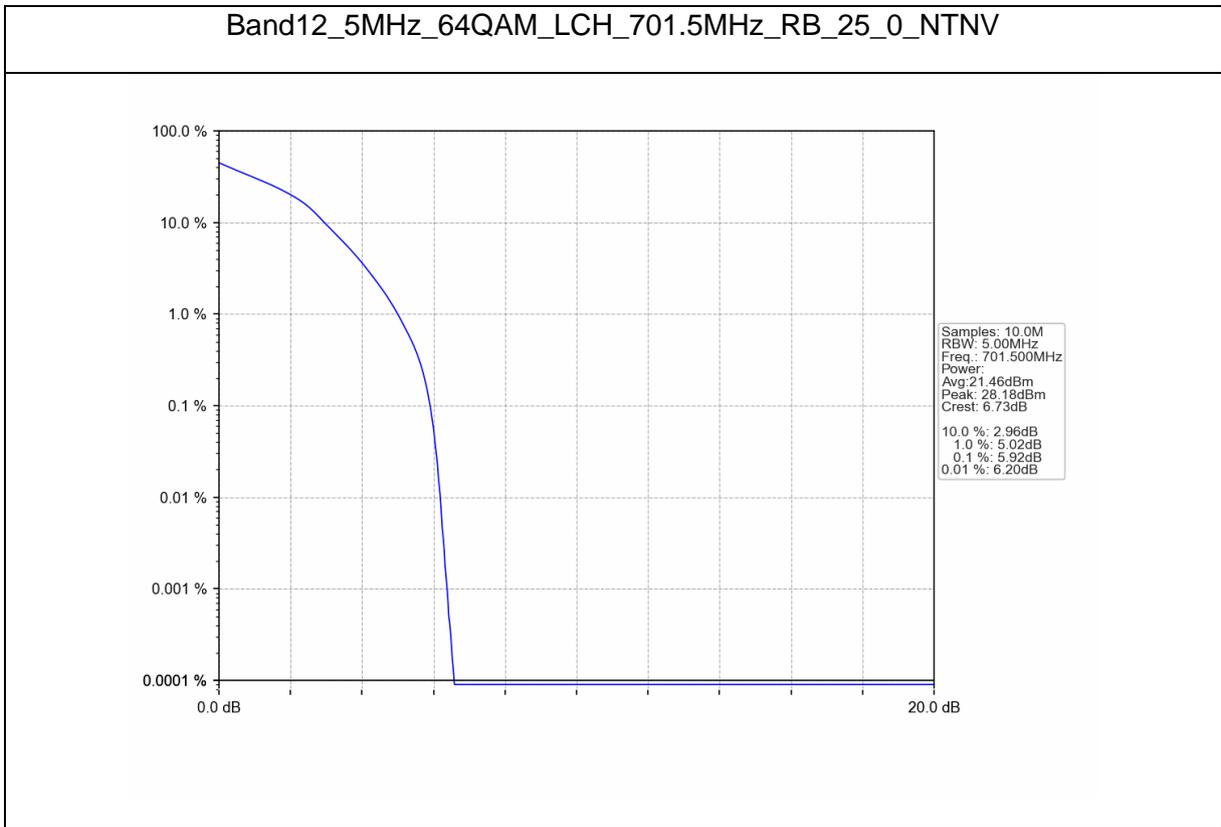


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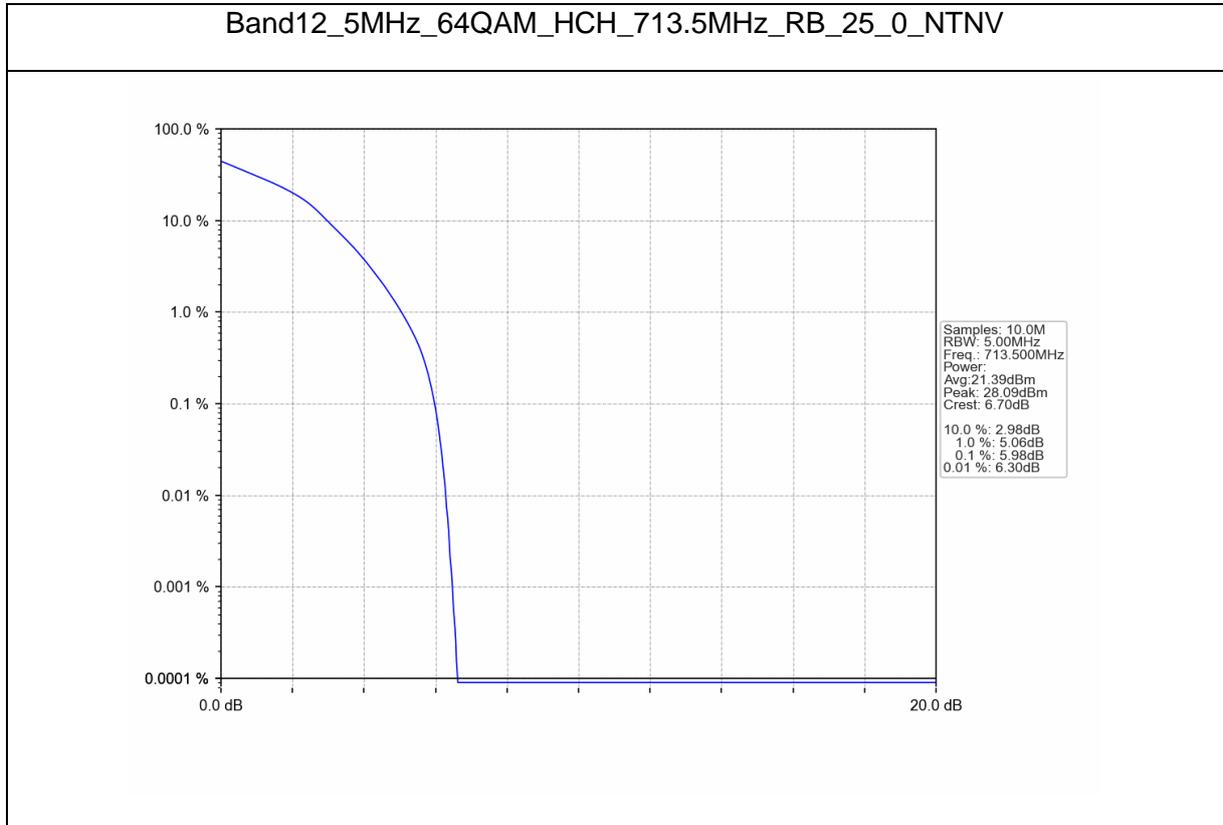


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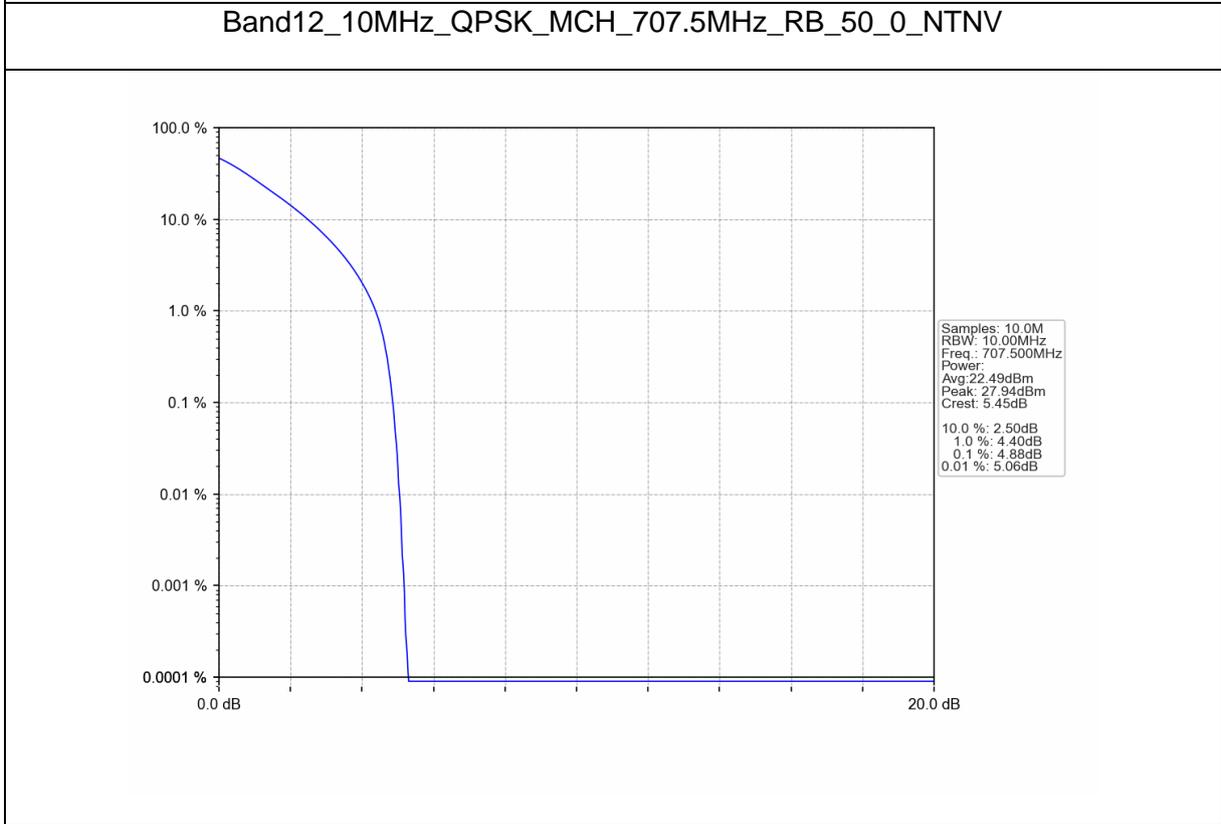
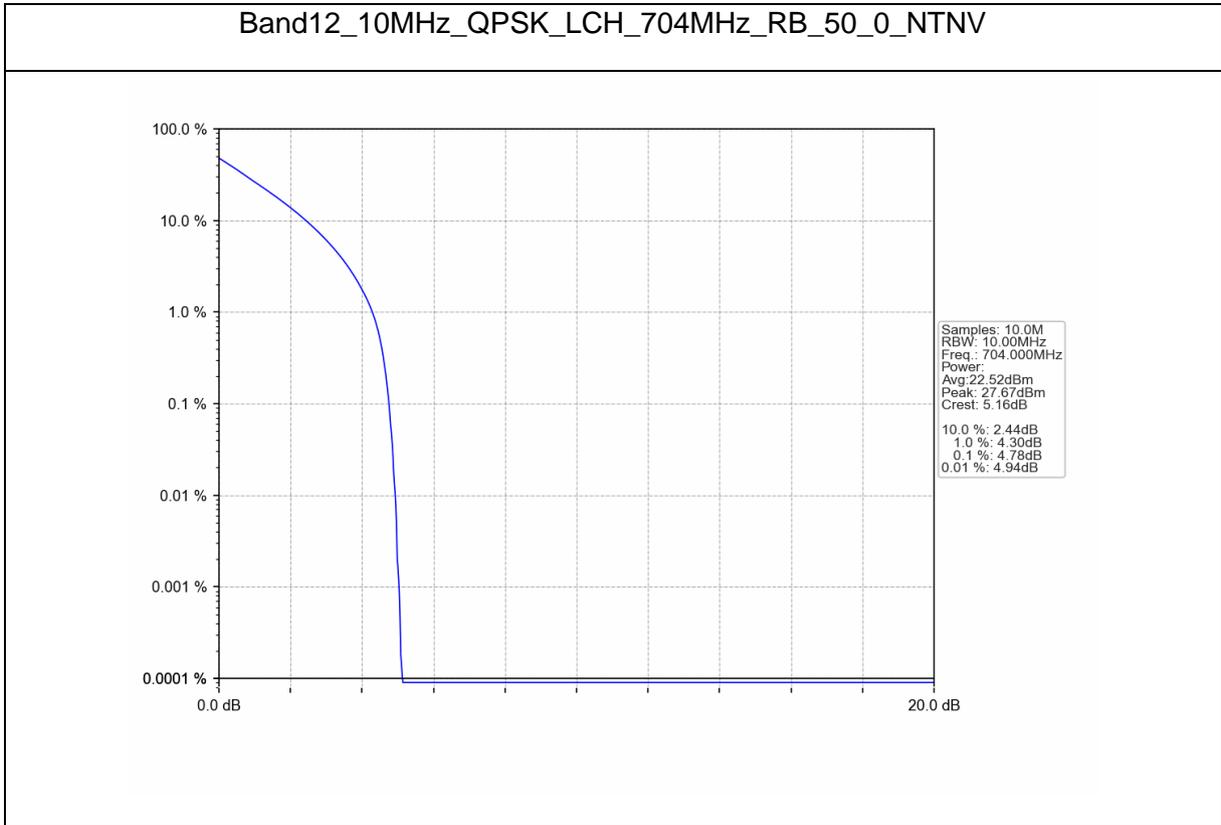


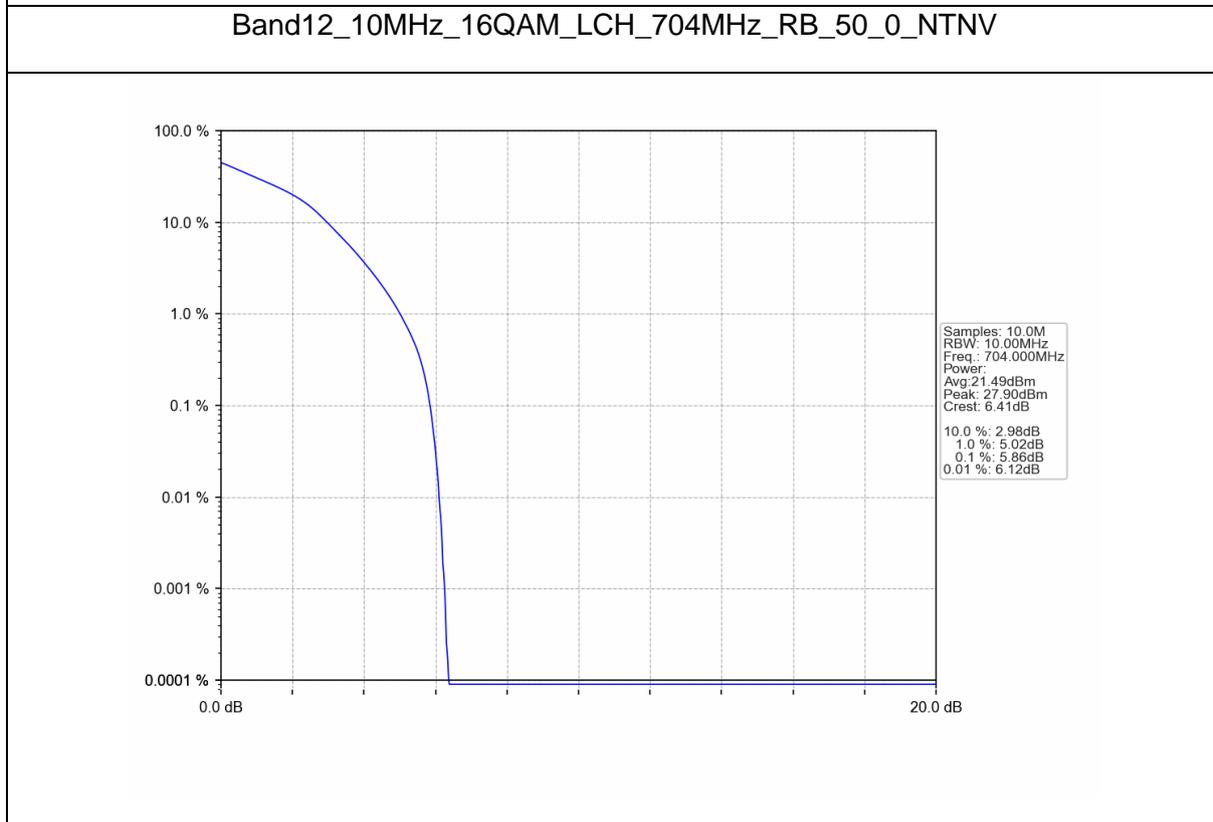
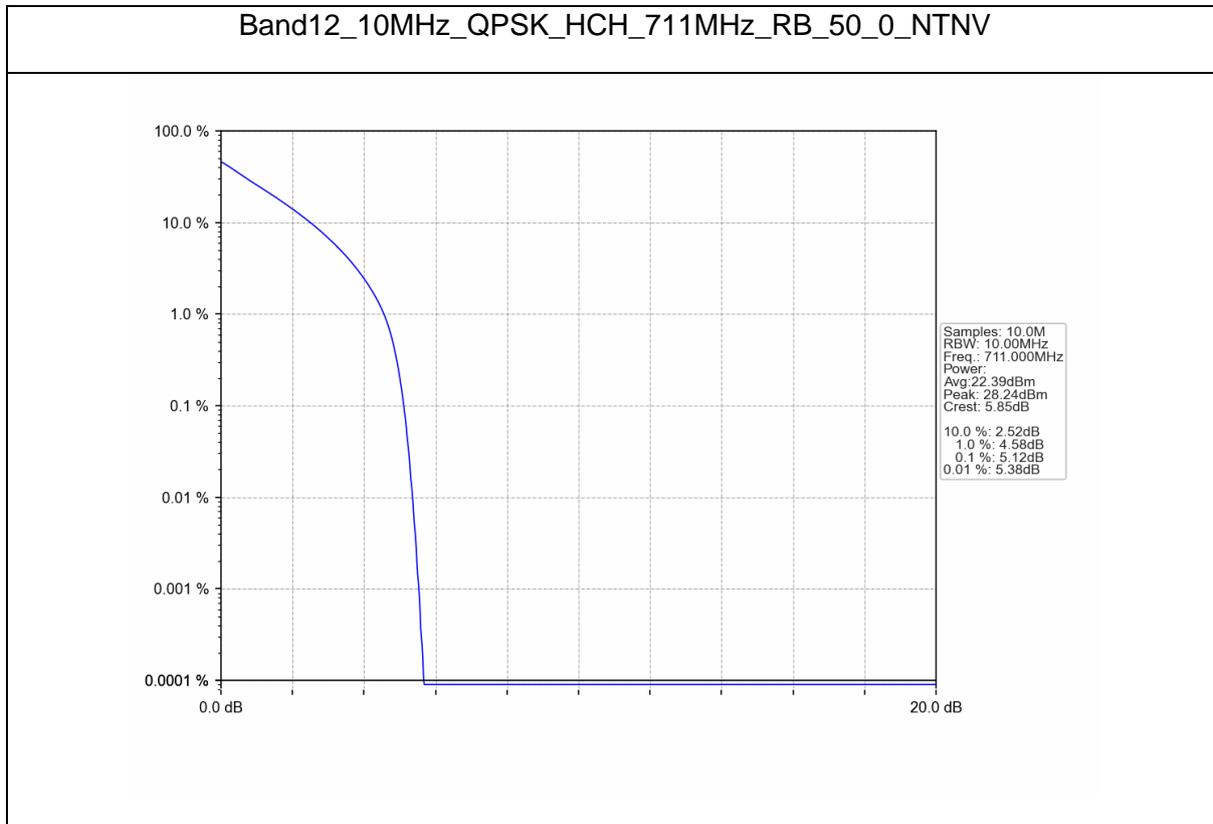


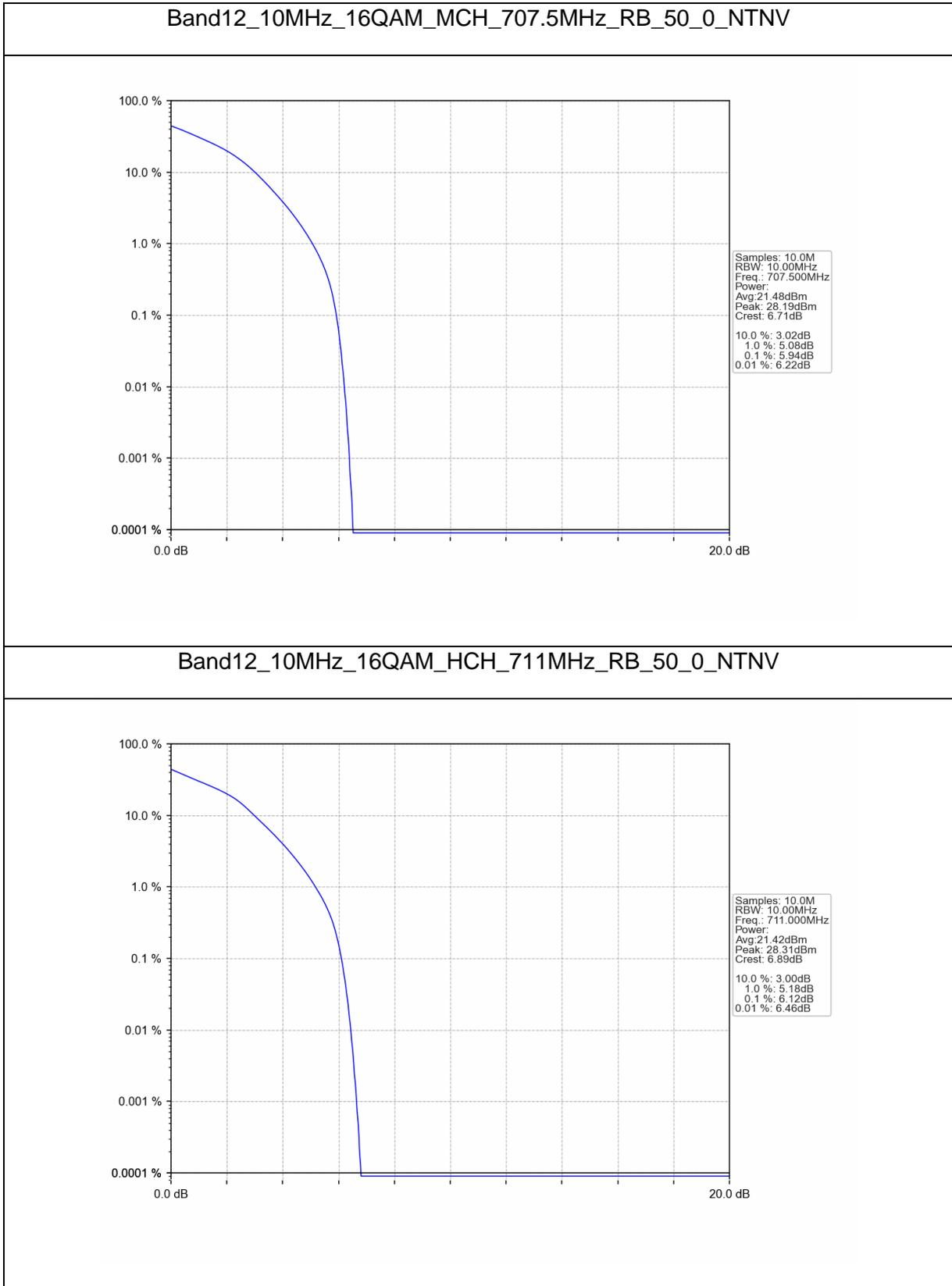
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Test Report No.: PSU-NQN2504150110RF04

B12_10MHz

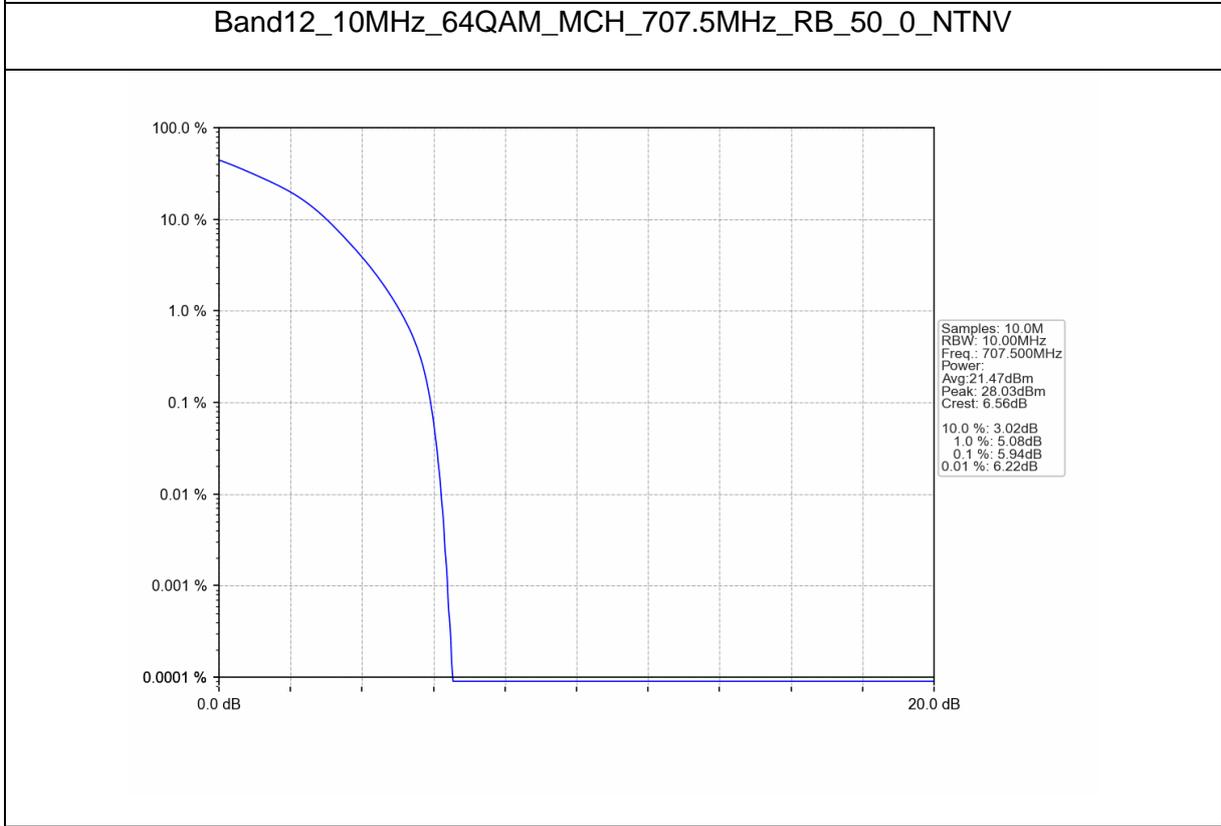
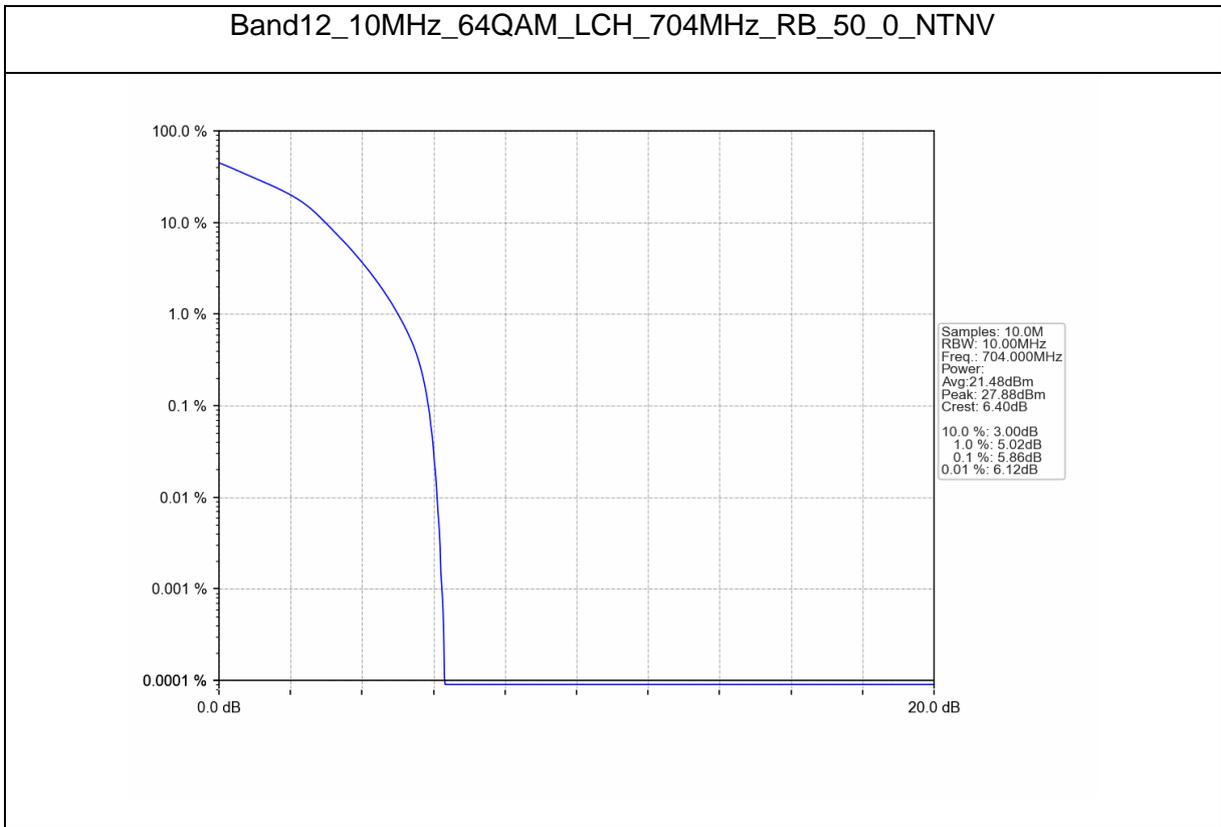






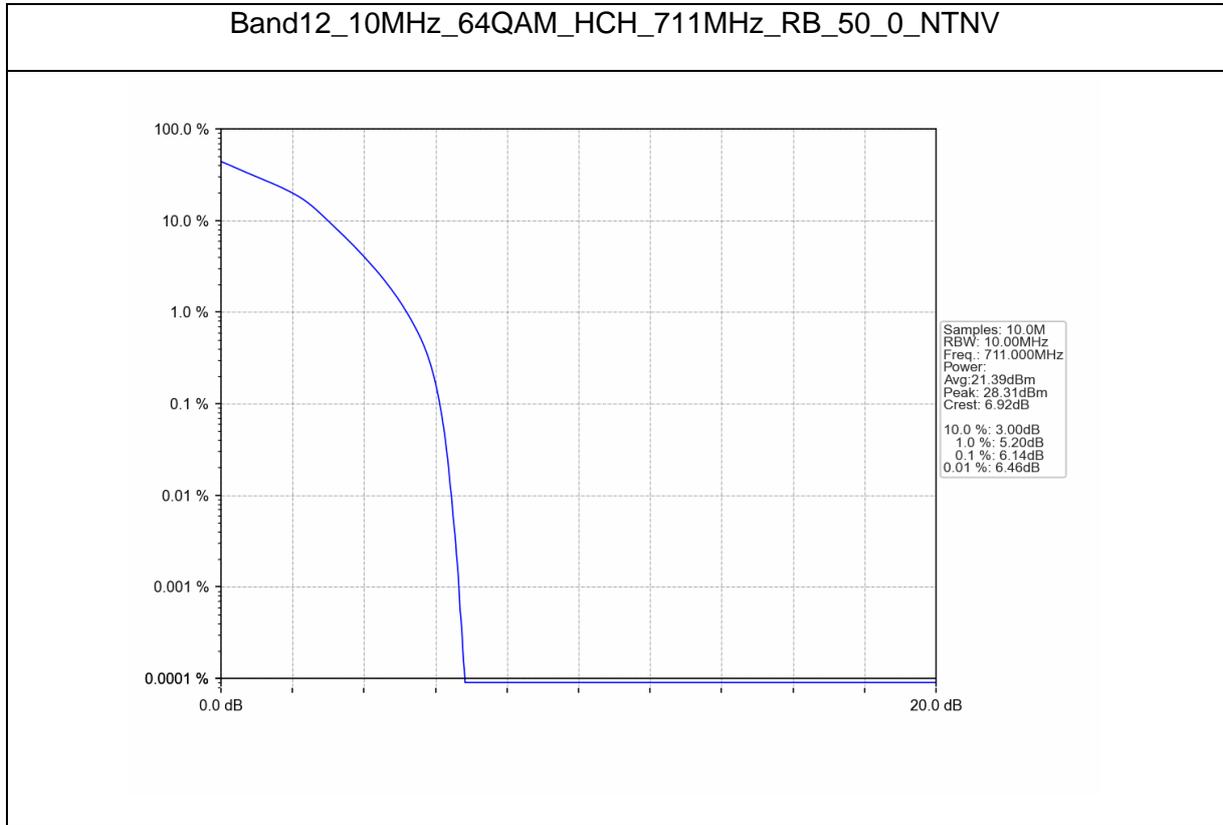


Test Report No.: PSU-NQN2504150110RF04





Test Report No.: PSU-NQN2504150110RF04





26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band: 12 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.101	/	Pass
		707.5	6	0	1.102	/	Pass
		715.3	6	0	1.103	/	Pass
	16QAM	699.7	6	0	1.109	/	Pass
		707.5	6	0	1.109	/	Pass
		715.3	6	0	1.110	/	Pass
	64QAM	699.7	6	0	1.103	/	Pass
		707.5	6	0	1.103	/	Pass
		715.3	6	0	1.101	/	Pass
3	QPSK	700.5	15	0	2.747	/	Pass
		707.5	15	0	2.751	/	Pass
		714.5	15	0	2.746	/	Pass
	16QAM	700.5	15	0	2.741	/	Pass
		707.5	15	0	2.746	/	Pass
		714.5	15	0	2.753	/	Pass
	64QAM	700.5	15	0	2.741	/	Pass
		707.5	15	0	2.743	/	Pass
		714.5	15	0	2.754	/	Pass
5	QPSK	701.5	25	0	4.510	/	Pass
		707.5	25	0	4.533	/	Pass
		713.5	25	0	4.525	/	Pass
	16QAM	701.5	25	0	4.516	/	Pass
		707.5	25	0	4.504	/	Pass
		713.5	25	0	4.526	/	Pass
	64QAM	701.5	25	0	4.525	/	Pass
		707.5	25	0	4.504	/	Pass
		713.5	25	0	4.521	/	Pass
10	QPSK	704	50	0	8.949	/	Pass
		707.5	50	0	8.993	/	Pass
		711	50	0	9.033	/	Pass
	16QAM	704	50	0	8.974	/	Pass
		707.5	50	0	8.974	/	Pass
		711	50	0	9.045	/	Pass
	64QAM	704	50	0	8.967	/	Pass
		707.5	50	0	8.992	/	Pass
		711	50	0	9.052	/	Pass



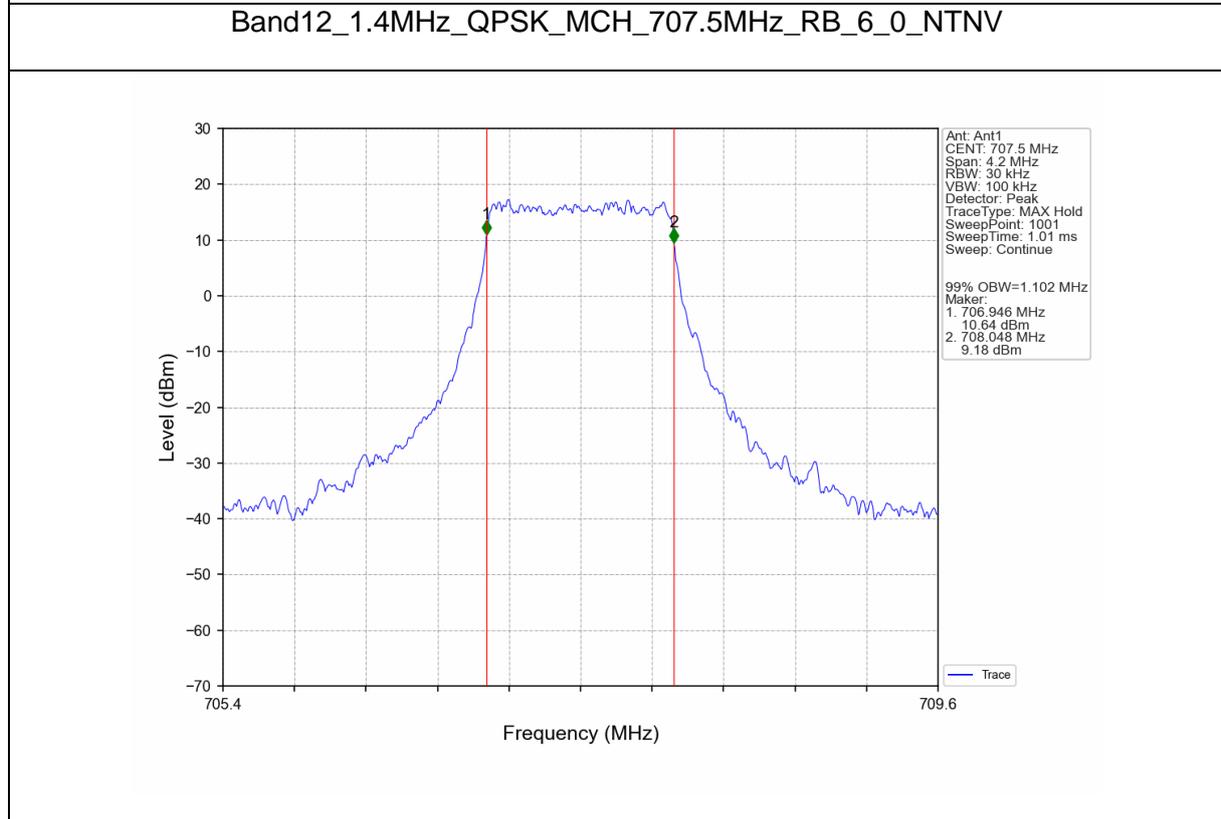
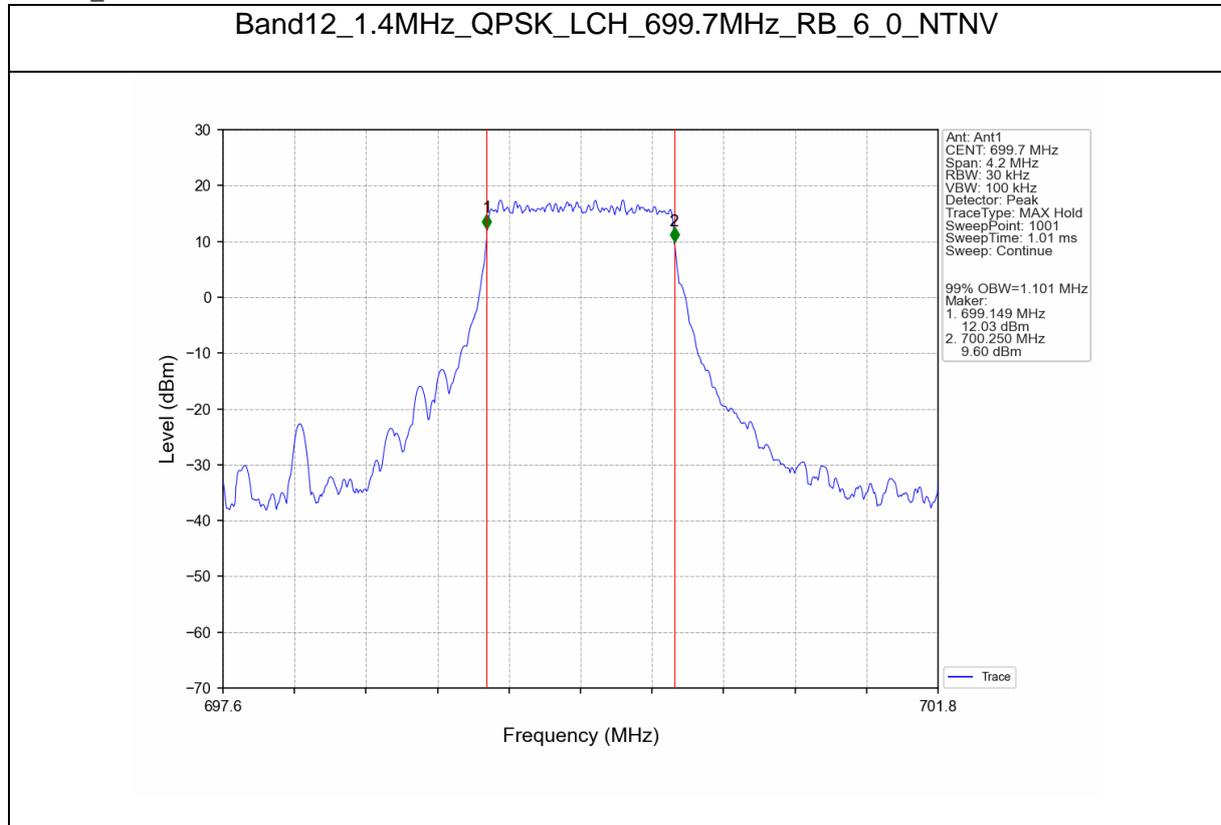
Test Report No.: PSU-NQN2504150110RF04

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.345	/	Pass
		707.5	6	0	1.393	/	Pass
		715.3	6	0	1.385	/	Pass
	16QAM	699.7	6	0	1.369	/	Pass
		707.5	6	0	1.386	/	Pass
		715.3	6	0	1.392	/	Pass
	64QAM	699.7	6	0	1.363	/	Pass
		707.5	6	0	1.363	/	Pass
		715.3	6	0	1.358	/	Pass
3	QPSK	700.5	15	0	3.140	/	Pass
		707.5	15	0	3.173	/	Pass
		714.5	15	0	3.116	/	Pass
	16QAM	700.5	15	0	3.142	/	Pass
		707.5	15	0	3.146	/	Pass
		714.5	15	0	3.129	/	Pass
	64QAM	700.5	15	0	3.129	/	Pass
		707.5	15	0	3.119	/	Pass
		714.5	15	0	3.097	/	Pass
5	QPSK	701.5	25	0	5.225	/	Pass
		707.5	25	0	5.171	/	Pass
		713.5	25	0	5.157	/	Pass
	16QAM	701.5	25	0	5.184	/	Pass
		707.5	25	0	5.137	/	Pass
		713.5	25	0	5.218	/	Pass
	64QAM	701.5	25	0	5.164	/	Pass
		707.5	25	0	5.169	/	Pass
		713.5	25	0	5.165	/	Pass
10	QPSK	704	50	0	9.872	/	Pass
		707.5	50	0	9.993	/	Pass
		711	50	0	10.047	/	Pass
	16QAM	704	50	0	9.893	/	Pass
		707.5	50	0	9.931	/	Pass
		711	50	0	9.983	/	Pass
	64QAM	704	50	0	9.926	/	Pass
		707.5	50	0	9.893	/	Pass
		711	50	0	10.068	/	Pass

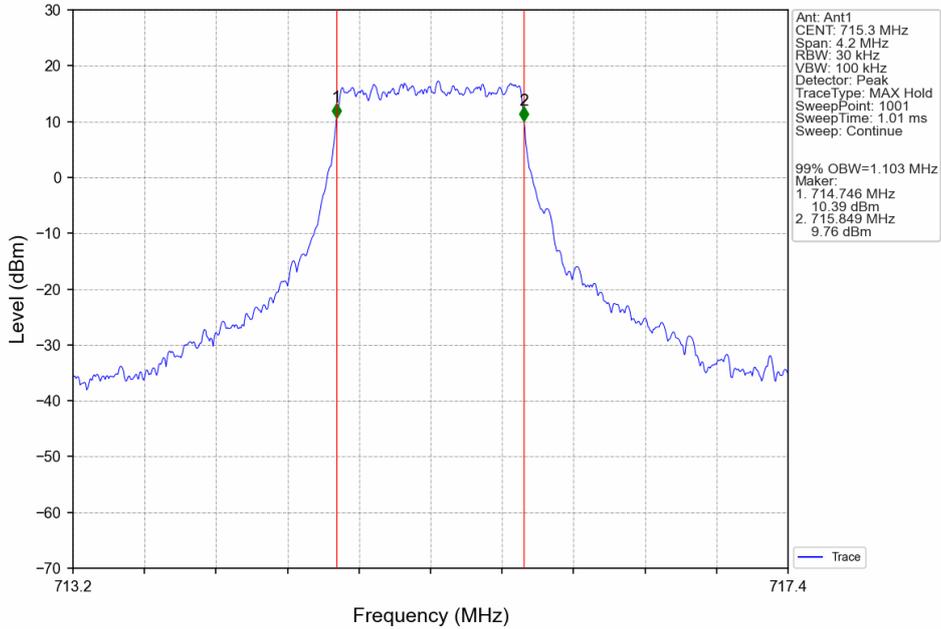


Test Graphs

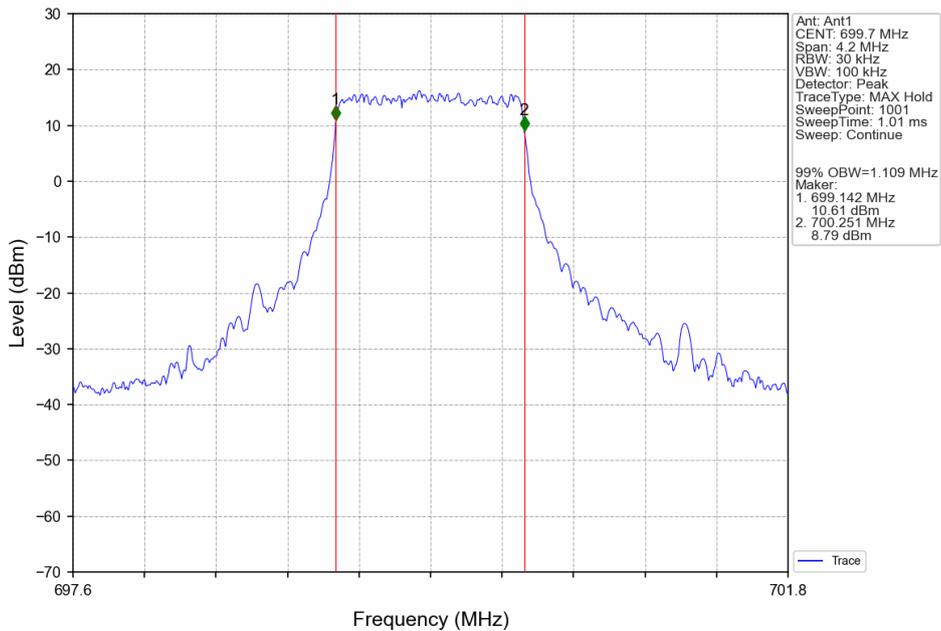
Band12_OBW



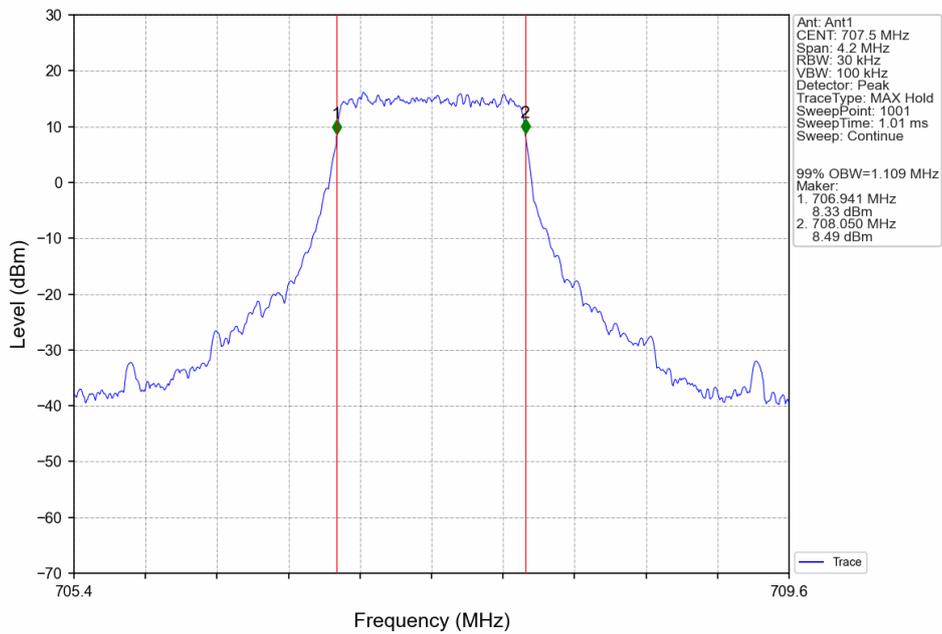
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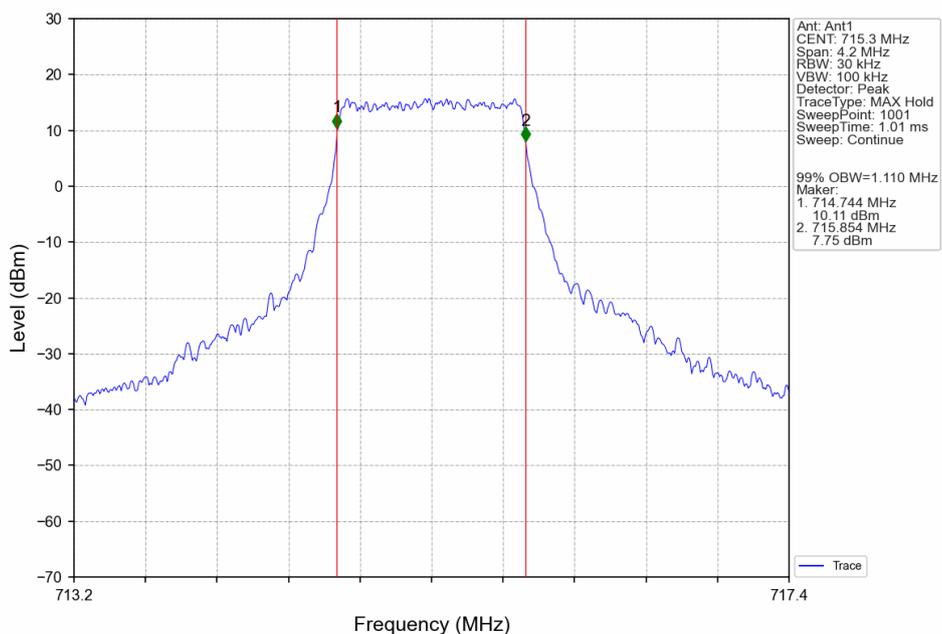
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



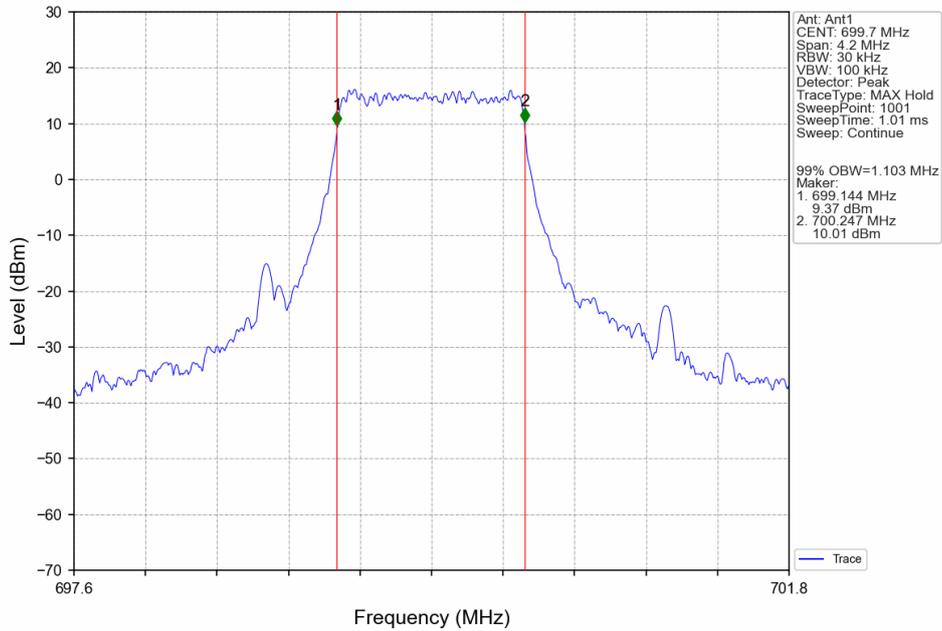
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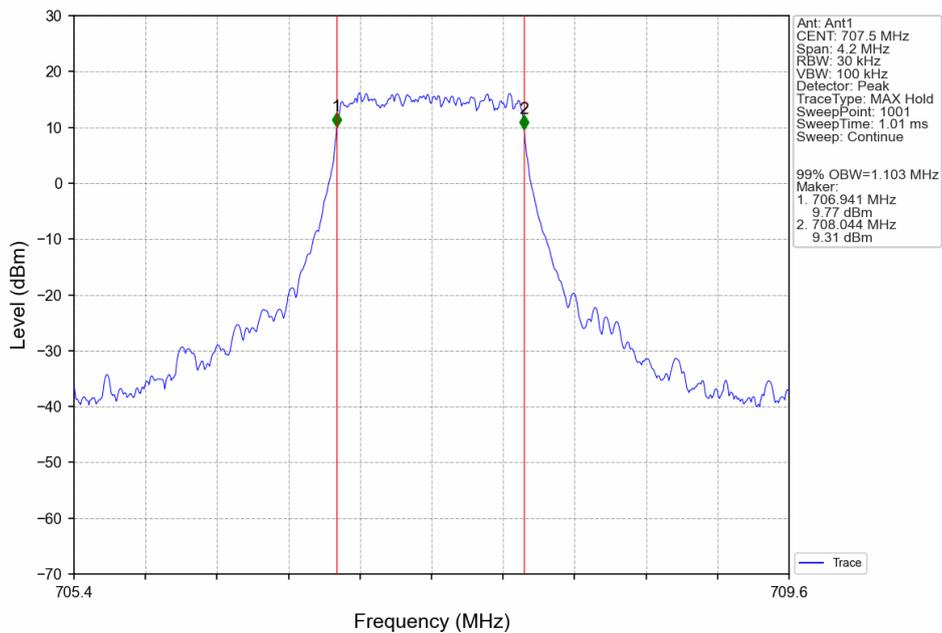


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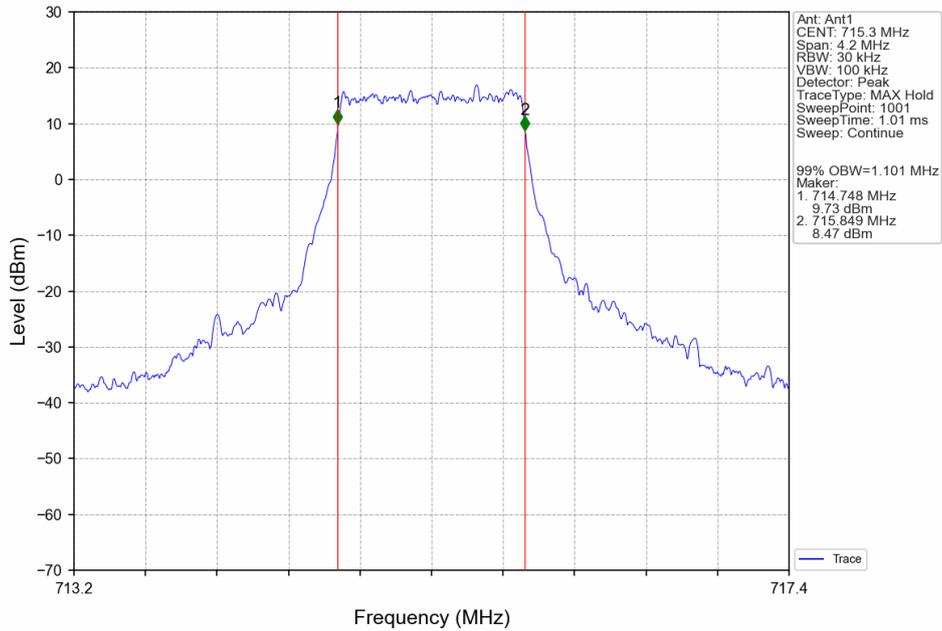
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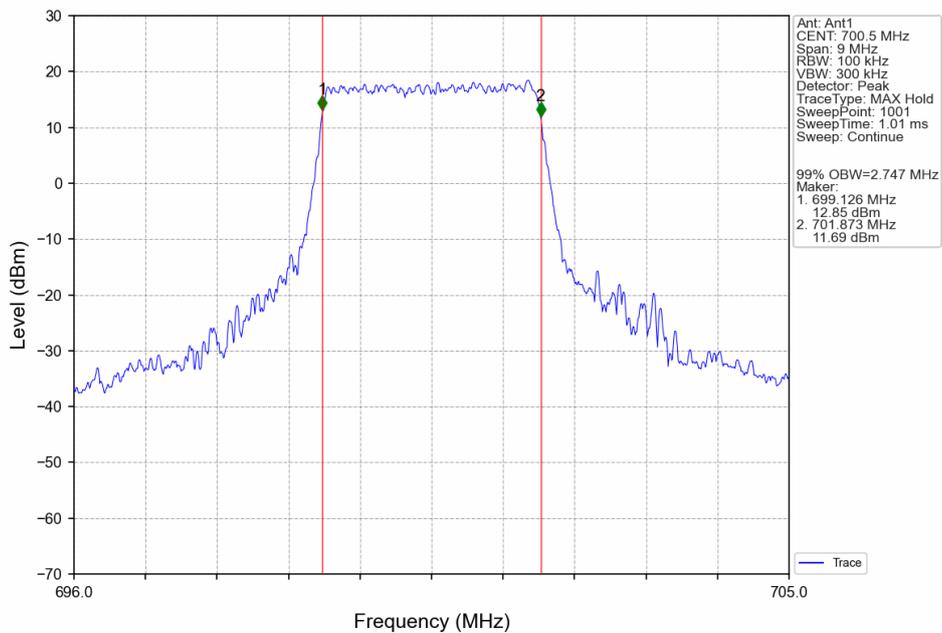
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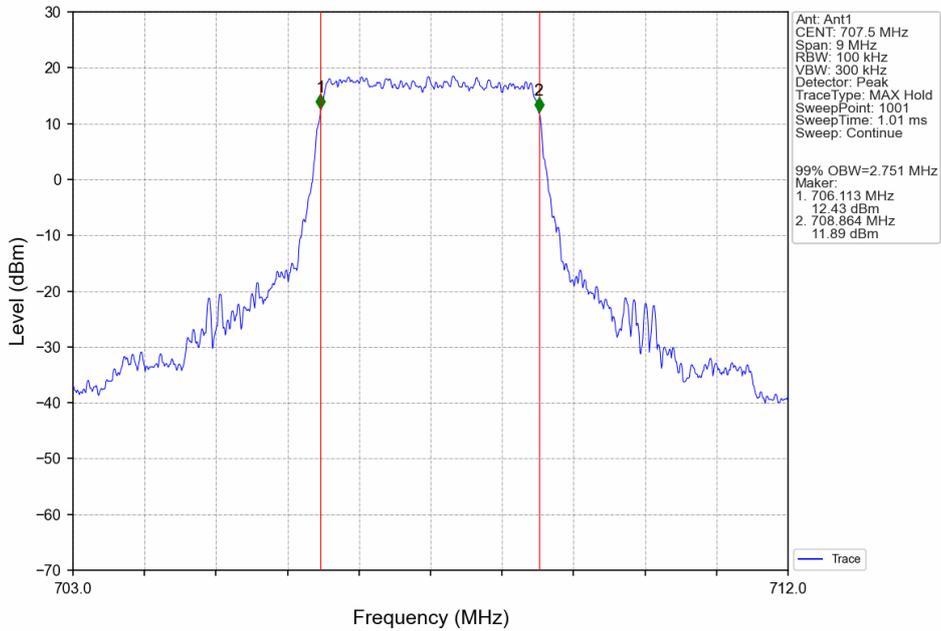
Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV



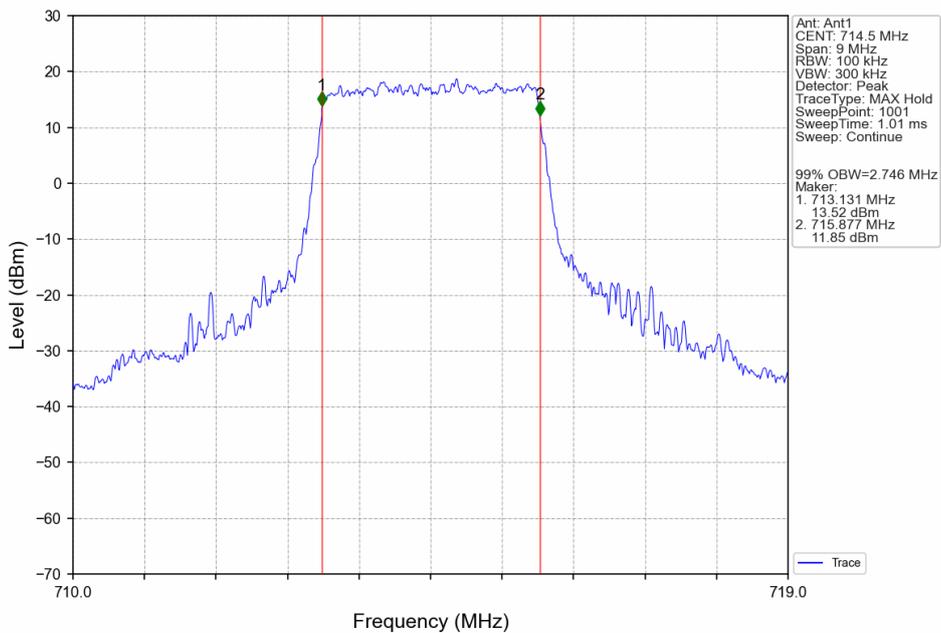
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

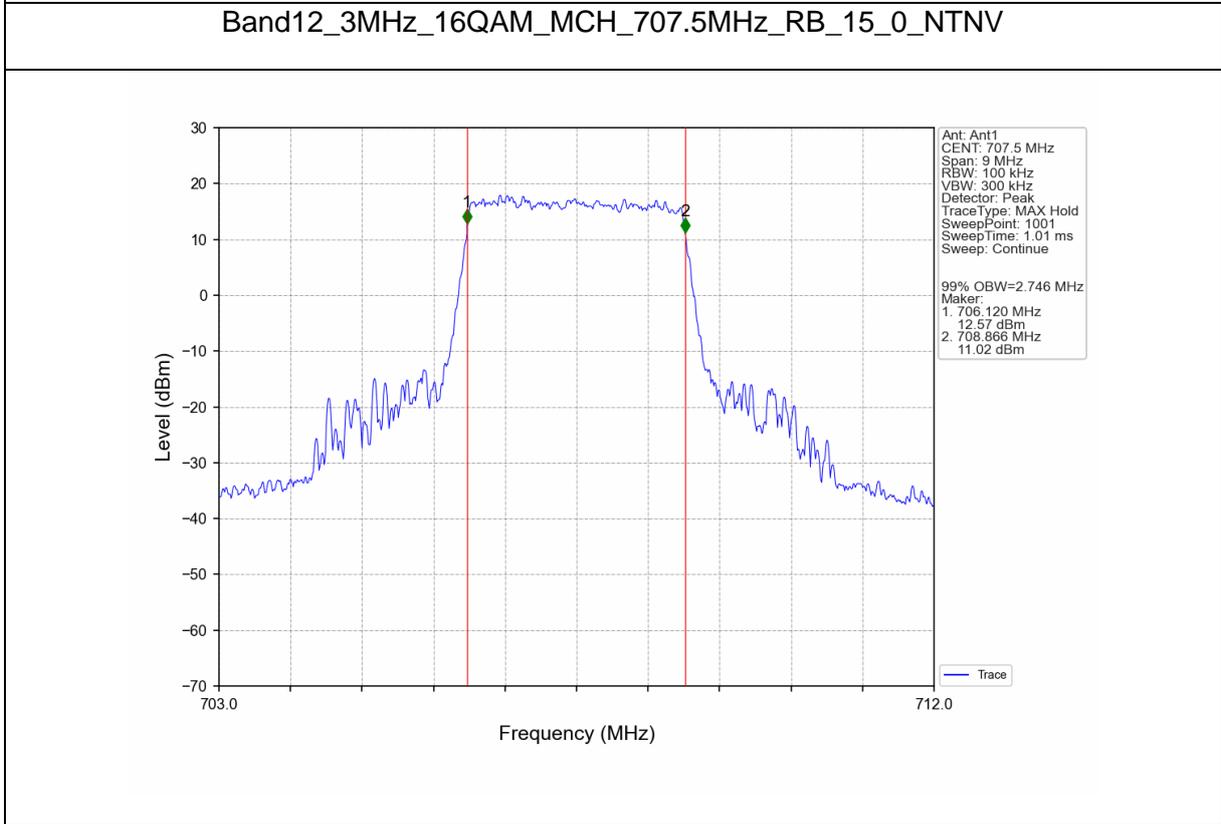
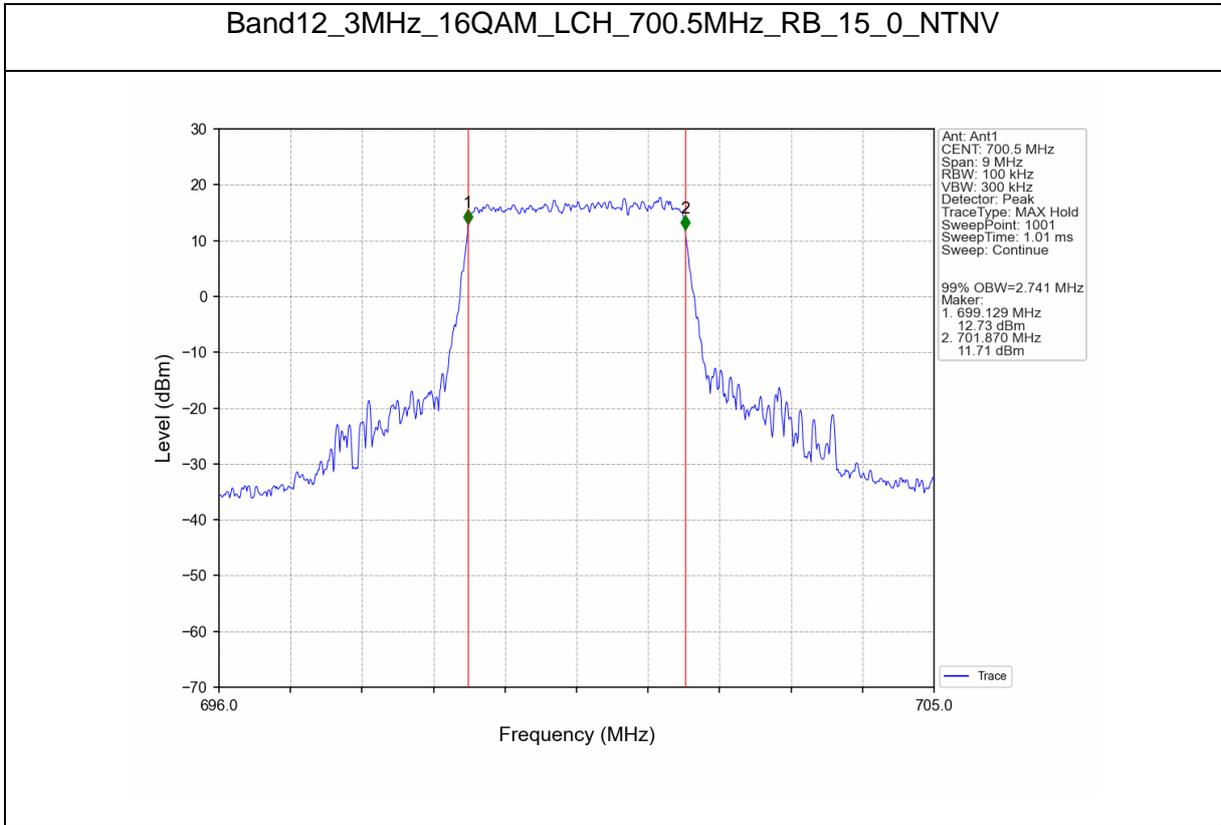


Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV

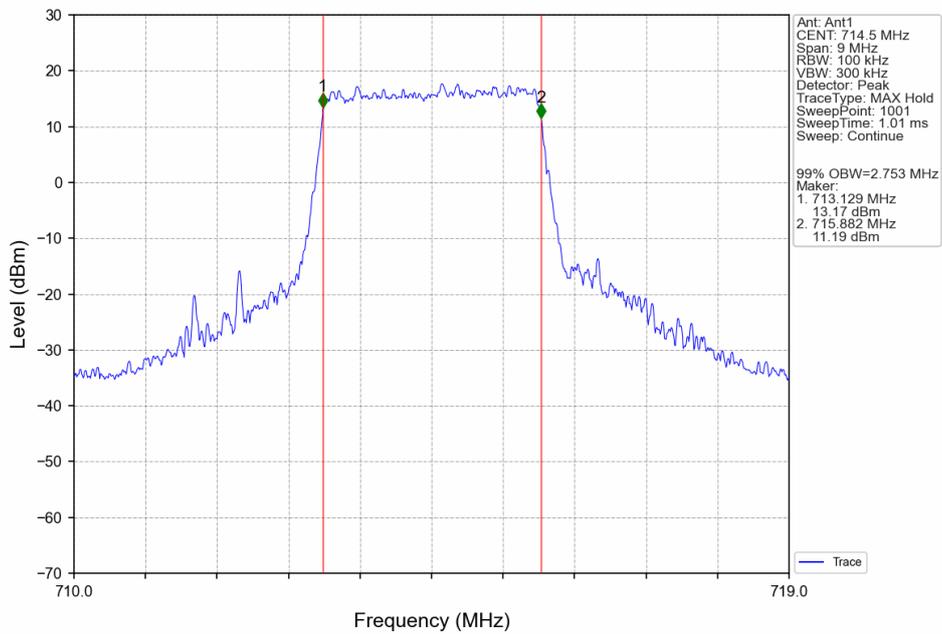




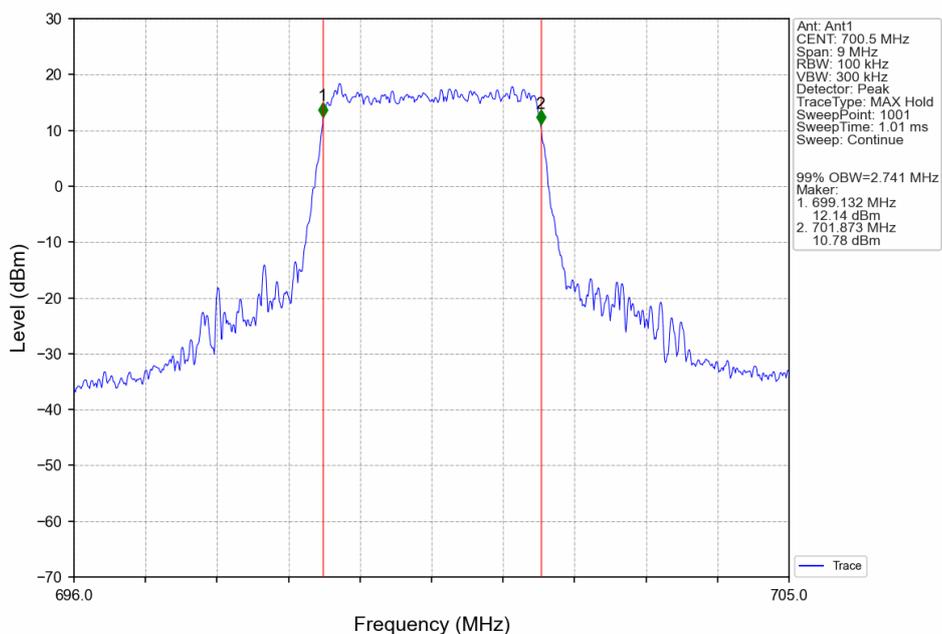
Test Report No.: PSU-NQN2504150110RF04



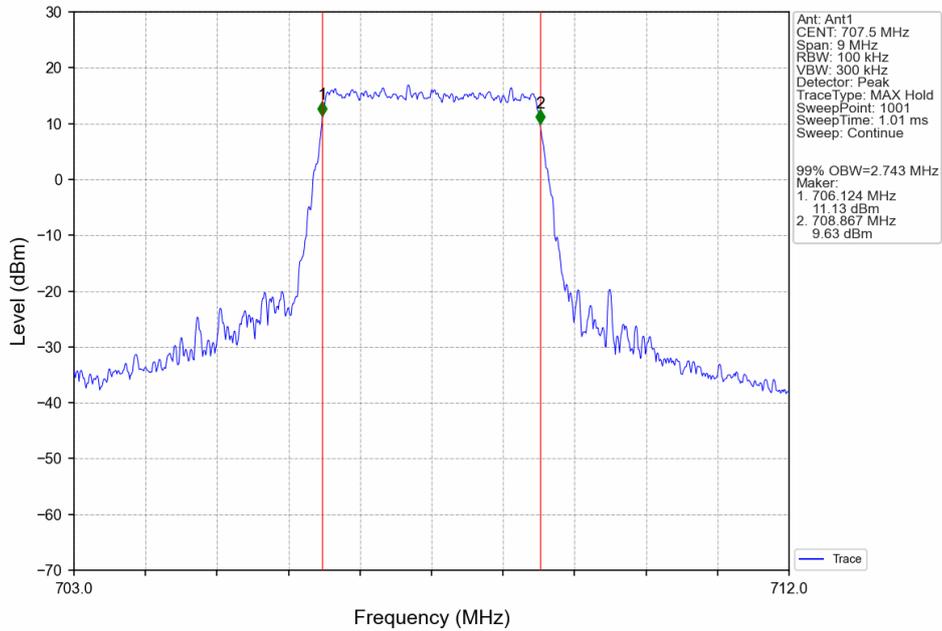
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV

