

1. Effective (Isotropic) Radiated Power Output Data

1.1 B7_5MHz_EIRP

1.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2502.5	1	0	20.96	1.12	22.08	<=33.01	Pass		
			13	21.03	1.12	22.15	<=33.01	Pass		
			24	20.94	1.12	22.06	<=33.01	Pass		
		12	0	19.95	1.12	21.07	<=33.01	Pass		
			6	19.98	1.12	21.10	<=33.01	Pass		
			13	19.98	1.12	21.10	<=33.01	Pass		
		25	0	19.90	1.12	21.02	<=33.01	Pass		
		2535	1	0	19.93	1.12	21.05	<=33.01	Pass	
				13	19.99	1.12	21.11	<=33.01	Pass	
	24			19.84	1.12	20.96	<=33.01	Pass		
	12		0	18.94	1.12	20.06	<=33.01	Pass		
			6	18.95	1.12	20.07	<=33.01	Pass		
			13	18.91	1.12	20.03	<=33.01	Pass		
	25		0	18.92	1.12	20.04	<=33.01	Pass		
	2567.5		1	0	19.51	1.12	20.63	<=33.01	Pass	
				13	19.61	1.12	20.73	<=33.01	Pass	
		24		19.49	1.12	20.61	<=33.01	Pass		
		12	0	18.59	1.12	19.71	<=33.01	Pass		
			6	18.58	1.12	19.70	<=33.01	Pass		
			13	18.47	1.12	19.59	<=33.01	Pass		
		25	0	18.51	1.12	19.63	<=33.01	Pass		
		16QAM	2502.5	1	0	19.49	1.12	20.61	<=33.01	Pass
					13	19.55	1.12	20.67	<=33.01	Pass
	24				19.45	1.12	20.57	<=33.01	Pass	
12	0			18.43	1.12	19.55	<=33.01	Pass		
	6			18.51	1.12	19.63	<=33.01	Pass		
	13			18.50	1.12	19.62	<=33.01	Pass		
25	0			18.47	1.12	19.59	<=33.01	Pass		
2535	1			0	19.11	1.12	20.23	<=33.01	Pass	
				13	19.19	1.12	20.31	<=33.01	Pass	
			24	19.06	1.12	20.18	<=33.01	Pass		
	12		0	18.00	1.12	19.12	<=33.01	Pass		
			6	18.03	1.12	19.15	<=33.01	Pass		
			13	17.95	1.12	19.07	<=33.01	Pass		
	25		0	17.92	1.12	19.04	<=33.01	Pass		
	2567.5		1	0	18.30	1.12	19.42	<=33.01	Pass	
				13	18.41	1.12	19.53	<=33.01	Pass	
24				18.30	1.12	19.42	<=33.01	Pass		
12			0	17.54	1.12	18.66	<=33.01	Pass		
			6	17.54	1.12	18.66	<=33.01	Pass		
			13	17.40	1.12	18.52	<=33.01	Pass		
25			0	17.50	1.12	18.62	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B7_10MHz_EIRP

1.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2505	1	0	20.53	1.12	21.65	<=33.01	Pass
			25	20.66	1.12	21.78	<=33.01	Pass
			49	20.44	1.12	21.56	<=33.01	Pass
		25	0	19.44	1.12	20.56	<=33.01	Pass
			13	19.45	1.12	20.57	<=33.01	Pass
			25	19.52	1.12	20.64	<=33.01	Pass
	50	0	19.46	1.12	20.58	<=33.01	Pass	
	2535	1	0	20.00	1.12	21.12	<=33.01	Pass
			25	20.11	1.12	21.23	<=33.01	Pass
			49	19.90	1.12	21.02	<=33.01	Pass
		25	0	19.03	1.12	20.15	<=33.01	Pass
			13	18.99	1.12	20.11	<=33.01	Pass
			25	18.93	1.12	20.05	<=33.01	Pass
	50	0	18.98	1.12	20.10	<=33.01	Pass	
	2565	1	0	19.67	1.12	20.79	<=33.01	Pass
			25	19.77	1.12	20.89	<=33.01	Pass
			49	19.55	1.12	20.67	<=33.01	Pass
		25	0	18.72	1.12	19.84	<=33.01	Pass
13			18.61	1.12	19.73	<=33.01	Pass	
25			18.52	1.12	19.64	<=33.01	Pass	
50	0	18.64	1.12	19.76	<=33.01	Pass		
16QAM	2505	1	0	19.44	1.12	20.56	<=33.01	Pass
			25	19.58	1.12	20.70	<=33.01	Pass
			49	19.32	1.12	20.44	<=33.01	Pass
		25	0	18.54	1.12	19.66	<=33.01	Pass
			13	18.57	1.12	19.69	<=33.01	Pass
			25	18.59	1.12	19.71	<=33.01	Pass
	50	0	18.51	1.12	19.63	<=33.01	Pass	
	2535	1	0	19.12	1.12	20.24	<=33.01	Pass
			25	19.22	1.12	20.34	<=33.01	Pass
			49	19.01	1.12	20.13	<=33.01	Pass
		25	0	18.08	1.12	19.20	<=33.01	Pass
			13	18.02	1.12	19.14	<=33.01	Pass
			25	17.98	1.12	19.10	<=33.01	Pass
	50	0	17.99	1.12	19.11	<=33.01	Pass	
	2565	1	0	19.01	1.12	20.13	<=33.01	Pass
			25	19.21	1.12	20.33	<=33.01	Pass
			49	19.00	1.12	20.12	<=33.01	Pass
		25	0	17.70	1.12	18.82	<=33.01	Pass
13			17.60	1.12	18.72	<=33.01	Pass	
25			17.50	1.12	18.62	<=33.01	Pass	
50	0	17.58	1.12	18.70	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.3 B7_15MHz_EIRP

1.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2507.5	1	0	20.44	1.12	21.56	<=33.01	Pass		
			38	20.45	1.12	21.57	<=33.01	Pass		
			74	20.25	1.12	21.37	<=33.01	Pass		
		36	0	19.44	1.12	20.56	<=33.01	Pass		
			18	19.49	1.12	20.61	<=33.01	Pass		
			39	19.51	1.12	20.63	<=33.01	Pass		
		75	0	19.49	1.12	20.61	<=33.01	Pass		
		2535	1	0	20.03	1.12	21.15	<=33.01	Pass	
				38	20.00	1.12	21.12	<=33.01	Pass	
	74			19.77	1.12	20.89	<=33.01	Pass		
	36		0	19.11	1.12	20.23	<=33.01	Pass		
			18	19.04	1.12	20.16	<=33.01	Pass		
			39	19.03	1.12	20.15	<=33.01	Pass		
	75		0	19.02	1.12	20.14	<=33.01	Pass		
	2562.5		1	0	19.66	1.12	20.78	<=33.01	Pass	
				38	19.68	1.12	20.80	<=33.01	Pass	
		74		19.50	1.12	20.62	<=33.01	Pass		
		36	0	18.80	1.12	19.92	<=33.01	Pass		
			18	18.75	1.12	19.87	<=33.01	Pass		
			39	18.62	1.12	19.74	<=33.01	Pass		
		75	0	18.69	1.12	19.81	<=33.01	Pass		
		16QAM	2507.5	1	0	19.71	1.12	20.83	<=33.01	Pass
					38	19.67	1.12	20.79	<=33.01	Pass
	74				19.46	1.12	20.58	<=33.01	Pass	
36	0			18.46	1.12	19.58	<=33.01	Pass		
	18			18.47	1.12	19.59	<=33.01	Pass		
	39			18.49	1.12	19.61	<=33.01	Pass		
75	0			18.45	1.12	19.57	<=33.01	Pass		
2535	1			0	19.11	1.12	20.23	<=33.01	Pass	
				38	19.12	1.12	20.24	<=33.01	Pass	
			74	18.88	1.12	20.00	<=33.01	Pass		
	36		0	18.10	1.12	19.22	<=33.01	Pass		
			18	18.08	1.12	19.20	<=33.01	Pass		
			39	18.00	1.12	19.12	<=33.01	Pass		
	75		0	18.05	1.12	19.17	<=33.01	Pass		
	2562.5		1	0	18.98	1.12	20.10	<=33.01	Pass	
				38	19.07	1.12	20.19	<=33.01	Pass	
74				18.91	1.12	20.03	<=33.01	Pass		
36			0	17.70	1.12	18.82	<=33.01	Pass		
			18	17.69	1.12	18.81	<=33.01	Pass		
			39	17.56	1.12	18.68	<=33.01	Pass		
75			0	17.62	1.12	18.74	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B7_20MHz_EIRP

1.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2510	1	0	20.23	1.12	21.35	<=33.01	Pass		
			50	20.51	1.12	21.63	<=33.01	Pass		
			99	19.99	1.12	21.11	<=33.01	Pass		
		50	0	19.22	1.12	20.34	<=33.01	Pass		
			25	19.33	1.12	20.45	<=33.01	Pass		
			50	19.34	1.12	20.46	<=33.01	Pass		
		100	0	19.30	1.12	20.42	<=33.01	Pass		
		2535	1	0	19.89	1.12	21.01	<=33.01	Pass	
				50	20.16	1.12	21.28	<=33.01	Pass	
	99			19.63	1.12	20.75	<=33.01	Pass		
	50		0	19.06	1.12	20.18	<=33.01	Pass		
			25	18.99	1.12	20.11	<=33.01	Pass		
			50	18.87	1.12	19.99	<=33.01	Pass		
	100		0	18.99	1.12	20.11	<=33.01	Pass		
	2560		1	0	19.52	1.12	20.64	<=33.01	Pass	
				50	19.81	1.12	20.93	<=33.01	Pass	
		99		19.34	1.12	20.46	<=33.01	Pass		
		50	0	18.62	1.12	19.74	<=33.01	Pass		
			25	18.64	1.12	19.76	<=33.01	Pass		
			50	18.41	1.12	19.53	<=33.01	Pass		
		100	0	18.53	1.12	19.65	<=33.01	Pass		
		16QAM	2510	1	0	19.68	1.12	20.80	<=33.01	Pass
					50	19.92	1.12	21.04	<=33.01	Pass
	99				19.44	1.12	20.56	<=33.01	Pass	
50	0			18.22	1.12	19.34	<=33.01	Pass		
	25			18.33	1.12	19.45	<=33.01	Pass		
	50			18.32	1.12	19.44	<=33.01	Pass		
100	0			18.32	1.12	19.44	<=33.01	Pass		
2535	1			0	18.96	1.12	20.08	<=33.01	Pass	
				50	19.28	1.12	20.40	<=33.01	Pass	
			99	18.73	1.12	19.85	<=33.01	Pass		
	50		0	18.07	1.12	19.19	<=33.01	Pass		
			25	17.98	1.12	19.10	<=33.01	Pass		
			50	17.86	1.12	18.98	<=33.01	Pass		
	100		0	17.99	1.12	19.11	<=33.01	Pass		
	2560		1	0	18.68	1.12	19.80	<=33.01	Pass	
				50	18.91	1.12	20.03	<=33.01	Pass	
99				18.52	1.12	19.64	<=33.01	Pass		
50			0	17.56	1.12	18.68	<=33.01	Pass		
			25	17.56	1.12	18.68	<=33.01	Pass		
			50	17.33	1.12	18.45	<=33.01	Pass		
100			0	17.47	1.12	18.59	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 B7_5MHz

2.1.1 Test Result

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	3.27	13.676	0.0055	-2.5 to 2.5	Pass
					3.85	-2.918	-0.0012	-2.5 to 2.5	Pass
					4.43	-7.281	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	-4.535	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-5.293	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-6.380	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-5.479	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-5.236	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-0.572	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-1.574	-0.0006	-2.5 to 2.5	Pass
	50	3.85	-5.565	-0.0022	-2.5 to 2.5	Pass			
	2535	25	0	20	3.27	-4.964	-0.0020	-2.5 to 2.5	Pass
					3.85	-0.958	-0.0004	-2.5 to 2.5	Pass
					4.43	0.544	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.544	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	2.017	0.0008	-2.5 to 2.5	Pass
				-10	3.85	2.704	0.0011	-2.5 to 2.5	Pass
				0	3.85	0.730	0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.229	-0.0001	-2.5 to 2.5	Pass
				30	3.85	1.087	0.0004	-2.5 to 2.5	Pass
				40	3.85	6.723	0.0027	-2.5 to 2.5	Pass
	50	3.85	-2.933	-0.0012	-2.5 to 2.5	Pass			
	2567.5	25	0	20	3.27	-3.977	-0.0015	-2.5 to 2.5	Pass
					3.85	2.332	0.0009	-2.5 to 2.5	Pass
					4.43	-2.046	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-9.685	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-2.618	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-7.238	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-6.895	-0.0027	-2.5 to 2.5	Pass
				10	3.85	0.615	0.0002	-2.5 to 2.5	Pass
30				3.85	-7.753	-0.0030	-2.5 to 2.5	Pass	
40				3.85	-12.488	-0.0049	-2.5 to 2.5	Pass	
50	3.85	0.730	0.0003	-2.5 to 2.5	Pass				
16QAM	2502.5	25	0	20	3.27	-6.738	-0.0027	-2.5 to 2.5	Pass
					3.85	-3.490	-0.0014	-2.5 to 2.5	Pass
					4.43	0.715	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-5.207	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-1.688	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-6.752	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-1.073	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-4.764	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-4.034	-0.0016	-2.5 to 2.5	Pass
	40	3.85	-1.373	-0.0005	-2.5 to 2.5	Pass			
	50	3.85	-3.004	-0.0012	-2.5 to 2.5	Pass			
	2535	25	0	20	3.27	-2.418	-0.0010	-2.5 to 2.5	Pass
					3.85	-4.320	-0.0017	-2.5 to 2.5	Pass
					4.43	-4.692	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	1.817	0.0007	-2.5 to 2.5	Pass
				-20	3.85	0.944	0.0004	-2.5 to 2.5	Pass
				-10	3.85	-1.731	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-0.672	-0.0003	-2.5 to 2.5	Pass
10				3.85	1.287	0.0005	-2.5 to 2.5	Pass	

	2567.5	25	0	30	3.85	1.402	0.0006	-2.5 to 2.5	Pass
				40	3.85	-3.276	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-0.100	0.0000	-2.5 to 2.5	Pass
				20	3.27	-12.746	-0.0050	-2.5 to 2.5	Pass
					3.85	-9.184	-0.0036	-2.5 to 2.5	Pass
					4.43	-2.489	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-2.947	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-12.703	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-4.435	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-5.307	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-3.505	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-6.266	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-5.608	-0.0022	-2.5 to 2.5	Pass
				50	3.85	-2.317	-0.0009	-2.5 to 2.5	Pass

2.2 B7_10MHz

2.2.1 Test Result

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	3.27	-9.871	-0.0039	-2.5 to 2.5	Pass
					3.85	1.874	0.0007	-2.5 to 2.5	Pass
					4.43	3.476	0.0014	-2.5 to 2.5	Pass
				-30	3.85	0.300	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-2.890	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-1.159	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-1.330	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-5.722	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-1.616	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-4.735	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-1.860	-0.0007	-2.5 to 2.5	Pass
				2535	50	0	20	3.27	-2.689
	3.85	-1.645	-0.0006					-2.5 to 2.5	Pass
	4.43	-3.176	-0.0013					-2.5 to 2.5	Pass
	-30	3.85	-0.973				-0.0004	-2.5 to 2.5	Pass
	-20	3.85	-7.024				-0.0028	-2.5 to 2.5	Pass
	-10	3.85	-2.317				-0.0009	-2.5 to 2.5	Pass
	0	3.85	1.516				0.0006	-2.5 to 2.5	Pass
	10	3.85	-14.734				-0.0058	-2.5 to 2.5	Pass
	30	3.85	-7.267				-0.0029	-2.5 to 2.5	Pass
	40	3.85	-0.458				-0.0002	-2.5 to 2.5	Pass
	50	3.85	-4.148				-0.0016	-2.5 to 2.5	Pass
	2565	50	0				20	3.27	0.629
				3.85	-1.802	-0.0007		-2.5 to 2.5	Pass
				4.43	-5.050	-0.0020		-2.5 to 2.5	Pass
				-30	3.85	-4.191	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-9.470	-0.0037	-2.5 to 2.5	Pass
-10				3.85	-1.044	-0.0004	-2.5 to 2.5	Pass	
0				3.85	-2.632	-0.0010	-2.5 to 2.5	Pass	
10	3.85	-8.140	-0.0032	-2.5 to 2.5	Pass				

				30	3.85	-0.930	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-5.407	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-4.878	-0.0019	-2.5 to 2.5	Pass
16QAM	2505	50	0	20	3.27	-7.653	-0.0031	-2.5 to 2.5	Pass
					3.85	-4.749	-0.0019	-2.5 to 2.5	Pass
					4.43	-1.001	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-3.576	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-6.652	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-10.057	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-5.050	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-4.520	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-6.094	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-6.480	-0.0026	-2.5 to 2.5	Pass
	50	3.85	-5.007	-0.0020	-2.5 to 2.5	Pass			
	2535	50	0	20	3.27	-9.284	-0.0037	-2.5 to 2.5	Pass
					3.85	-7.911	-0.0031	-2.5 to 2.5	Pass
					4.43	-3.476	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-1.416	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.758	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-2.861	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-2.875	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-3.519	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-0.057	0.0000	-2.5 to 2.5	Pass
				40	3.85	-7.296	-0.0029	-2.5 to 2.5	Pass
	50	3.85	-4.177	-0.0016	-2.5 to 2.5	Pass			
	2565	50	0	20	3.27	1.631	0.0006	-2.5 to 2.5	Pass
					3.85	-1.416	-0.0006	-2.5 to 2.5	Pass
					4.43	-8.025	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-6.309	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-2.704	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-3.462	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-2.117	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.544	-0.0002	-2.5 to 2.5	Pass
30				3.85	0.129	0.0001	-2.5 to 2.5	Pass	
40				3.85	-2.217	-0.0009	-2.5 to 2.5	Pass	
50	3.85	-8.354	-0.0033	-2.5 to 2.5	Pass				

2.3 B7_15MHz

2.3.1 Test Result

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	3.27	1.817	0.0007	-2.5 to 2.5	Pass
					3.85	-14.319	-0.0057	-2.5 to 2.5	Pass
					4.43	-5.050	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-2.847	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-3.791	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-6.752	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-4.148	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-4.992	-0.0020	-2.5 to 2.5	Pass

	2535	75	0	30	3.85	-7.896	-0.0031	-2.5 to 2.5	Pass				
				40	3.85	-5.794	-0.0023	-2.5 to 2.5	Pass				
				50	3.85	-7.696	-0.0031	-2.5 to 2.5	Pass				
				20	3.27	0.772	0.0003	-2.5 to 2.5	Pass				
					3.85	-3.176	-0.0013	-2.5 to 2.5	Pass				
					4.43	-3.004	-0.0012	-2.5 to 2.5	Pass				
				-30	3.85	-2.089	-0.0008	-2.5 to 2.5	Pass				
				-20	3.85	-4.749	-0.0019	-2.5 to 2.5	Pass				
				-10	3.85	-5.565	-0.0022	-2.5 to 2.5	Pass				
				0	3.85	-4.249	-0.0017	-2.5 to 2.5	Pass				
				10	3.85	-7.153	-0.0028	-2.5 to 2.5	Pass				
				30	3.85	-2.918	-0.0012	-2.5 to 2.5	Pass				
				40	3.85	-2.017	-0.0008	-2.5 to 2.5	Pass				
				50	3.85	-6.208	-0.0024	-2.5 to 2.5	Pass				
				2562.5	75	0	20	3.27	-4.177	-0.0016	-2.5 to 2.5	Pass	
	3.85	-4.549	-0.0018					-2.5 to 2.5	Pass				
	4.43	-5.565	-0.0022					-2.5 to 2.5	Pass				
	-30	3.85	-3.233				-0.0013	-2.5 to 2.5	Pass				
	-20	3.85	-7.482				-0.0029	-2.5 to 2.5	Pass				
	-10	3.85	-5.636				-0.0022	-2.5 to 2.5	Pass				
	0	3.85	0.672				0.0003	-2.5 to 2.5	Pass				
	10	3.85	-4.621				-0.0018	-2.5 to 2.5	Pass				
	30	3.85	-7.253				-0.0028	-2.5 to 2.5	Pass				
	40	3.85	-6.094				-0.0024	-2.5 to 2.5	Pass				
	50	3.85	-1.359				-0.0005	-2.5 to 2.5	Pass				
	16QAM	2507.5	75				0	20	3.27	-9.427	-0.0038	-2.5 to 2.5	Pass
									3.85	-5.379	-0.0021	-2.5 to 2.5	Pass
									4.43	-3.519	-0.0014	-2.5 to 2.5	Pass
								-30	3.85	-5.164	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-5.865		-0.0023	-2.5 to 2.5	Pass			
-10				3.85	-4.292	-0.0017		-2.5 to 2.5	Pass				
0				3.85	-4.163	-0.0017		-2.5 to 2.5	Pass				
10				3.85	-10.014	-0.0040		-2.5 to 2.5	Pass				
30				3.85	-4.463	-0.0018		-2.5 to 2.5	Pass				
40				3.85	-8.483	-0.0034		-2.5 to 2.5	Pass				
50				3.85	-3.963	-0.0016		-2.5 to 2.5	Pass				
2535				75	0	20		3.27	-2.174	-0.0009	-2.5 to 2.5	Pass	
								3.85	-5.236	-0.0021	-2.5 to 2.5	Pass	
								4.43	-0.157	-0.0001	-2.5 to 2.5	Pass	
						-30		3.85	-3.047	-0.0012	-2.5 to 2.5	Pass	
		-20	3.85			-4.191	-0.0017	-2.5 to 2.5	Pass				
		-10	3.85			-4.320	-0.0017	-2.5 to 2.5	Pass				
		0	3.85			-2.718	-0.0011	-2.5 to 2.5	Pass				
		10	3.85			-3.104	-0.0012	-2.5 to 2.5	Pass				
		30	3.85			-5.078	-0.0020	-2.5 to 2.5	Pass				
		40	3.85			2.375	0.0009	-2.5 to 2.5	Pass				
		50	3.85			-8.740	-0.0034	-2.5 to 2.5	Pass				
		2562.5	75			0	20	3.27	-6.094	-0.0024	-2.5 to 2.5	Pass	
								3.85	-0.014	0.0000	-2.5 to 2.5	Pass	
								4.43	18.082	0.0071	-2.5 to 2.5	Pass	
							-30	3.85	-0.973	-0.0004	-2.5 to 2.5	Pass	
-20				3.85	0.014		0.0000	-2.5 to 2.5	Pass				
-10				3.85	-2.332		-0.0009	-2.5 to 2.5	Pass				
0				3.85	-7.954		-0.0031	-2.5 to 2.5	Pass				
10				3.85	-9.298		-0.0036	-2.5 to 2.5	Pass				

				30	3.85	-0.887	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-8.540	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-11.501	-0.0045	-2.5 to 2.5	Pass

2.4 B7_20MHz

2.4.1 Test Result

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	3.27	-7.968	-0.0032	-2.5 to 2.5	Pass	
					3.85	-5.121	-0.0020	-2.5 to 2.5	Pass	
					4.43	-2.146	-0.0009	-2.5 to 2.5	Pass	
				-30	3.85	-5.994	-0.0024	-2.5 to 2.5	Pass	
					-20	3.85	-4.935	-0.0020	-2.5 to 2.5	Pass
						3.85	-7.467	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-3.676	-0.0015	-2.5 to 2.5	Pass	
					10	3.85	-2.689	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-1.187	-0.0005	-2.5 to 2.5	Pass	
	40	3.85	-4.120	-0.0016	-2.5 to 2.5	Pass				
	50	3.85	-7.696	-0.0031	-2.5 to 2.5	Pass				
	2535	100	0	20	3.27	-9.098	-0.0036	-2.5 to 2.5	Pass	
					3.85	-7.224	-0.0028	-2.5 to 2.5	Pass	
					4.43	-6.137	-0.0024	-2.5 to 2.5	Pass	
				-30	3.85	-6.380	-0.0025	-2.5 to 2.5	Pass	
					-20	3.85	-9.341	-0.0037	-2.5 to 2.5	Pass
						3.85	-0.372	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-7.710	-0.0030	-2.5 to 2.5	Pass	
					10	3.85	-7.439	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-3.133	-0.0012	-2.5 to 2.5	Pass	
	40	3.85	-6.609	-0.0026	-2.5 to 2.5	Pass				
	50	3.85	-13.433	-0.0053	-2.5 to 2.5	Pass				
	2560	100	0	20	3.27	-3.905	-0.0015	-2.5 to 2.5	Pass	
					3.85	-6.051	-0.0024	-2.5 to 2.5	Pass	
					4.43	-8.440	-0.0033	-2.5 to 2.5	Pass	
				-30	3.85	-9.398	-0.0037	-2.5 to 2.5	Pass	
					-20	3.85	-6.924	-0.0027	-2.5 to 2.5	Pass
3.85						-9.198	-0.0036	-2.5 to 2.5	Pass	
0				3.85	-7.067	-0.0028	-2.5 to 2.5	Pass		
				10	3.85	-3.347	-0.0013	-2.5 to 2.5	Pass	
30				3.85	-4.005	-0.0016	-2.5 to 2.5	Pass		
40	3.85	-7.811	-0.0031	-2.5 to 2.5	Pass					
50	3.85	-6.552	-0.0026	-2.5 to 2.5	Pass					
16QAM	2510	100	0	20	3.27	-0.057	0.0000	-2.5 to 2.5	Pass	
					3.85	-2.818	-0.0011	-2.5 to 2.5	Pass	
					4.43	-1.116	-0.0004	-2.5 to 2.5	Pass	
				-30	3.85	-1.016	-0.0004	-2.5 to 2.5	Pass	
					3.85	-3.076	-0.0012	-2.5 to 2.5	Pass	
				-10	3.85	-2.832	-0.0011	-2.5 to 2.5	Pass	
0	3.85	-6.537	-0.0026	-2.5 to 2.5	Pass					
10	3.85	-5.865	-0.0023	-2.5 to 2.5	Pass					

	2535	100	0	30	3.85	-2.389	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-5.765	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-1.173	-0.0005	-2.5 to 2.5	Pass
				20	3.27	-5.064	-0.0020	-2.5 to 2.5	Pass
					3.85	-3.562	-0.0014	-2.5 to 2.5	Pass
					4.43	-7.954	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-6.266	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-4.091	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-5.136	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-3.548	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-4.992	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-5.250	-0.0021	-2.5 to 2.5	Pass
	40	3.85	-4.706	-0.0019	-2.5 to 2.5	Pass			
	50	3.85	-2.875	-0.0011	-2.5 to 2.5	Pass			
	2560	100	0	20	3.27	-4.907	-0.0019	-2.5 to 2.5	Pass
					3.85	-5.493	-0.0021	-2.5 to 2.5	Pass
					4.43	-7.811	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-5.565	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-3.419	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-3.891	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-6.781	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-4.492	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-3.147	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-1.445	-0.0006	-2.5 to 2.5	Pass
50				3.85	-2.332	-0.0009	-2.5 to 2.5	Pass	

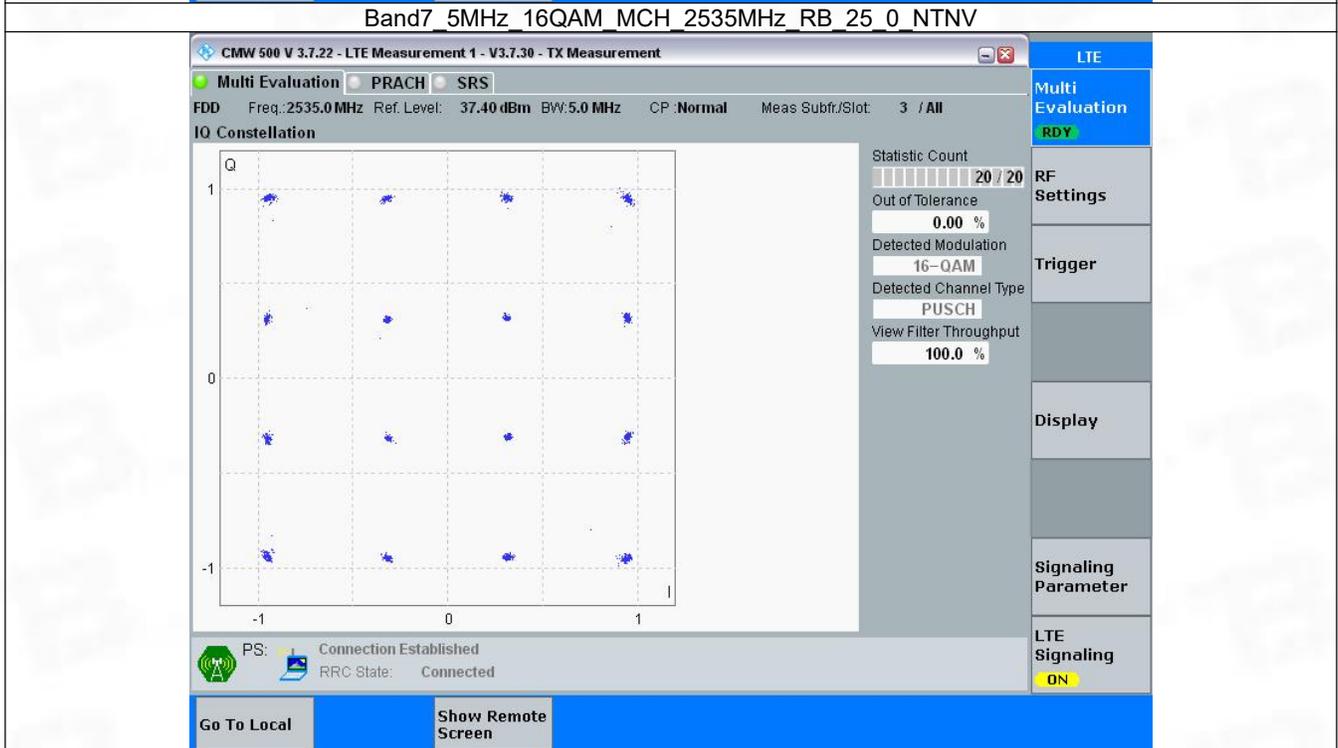
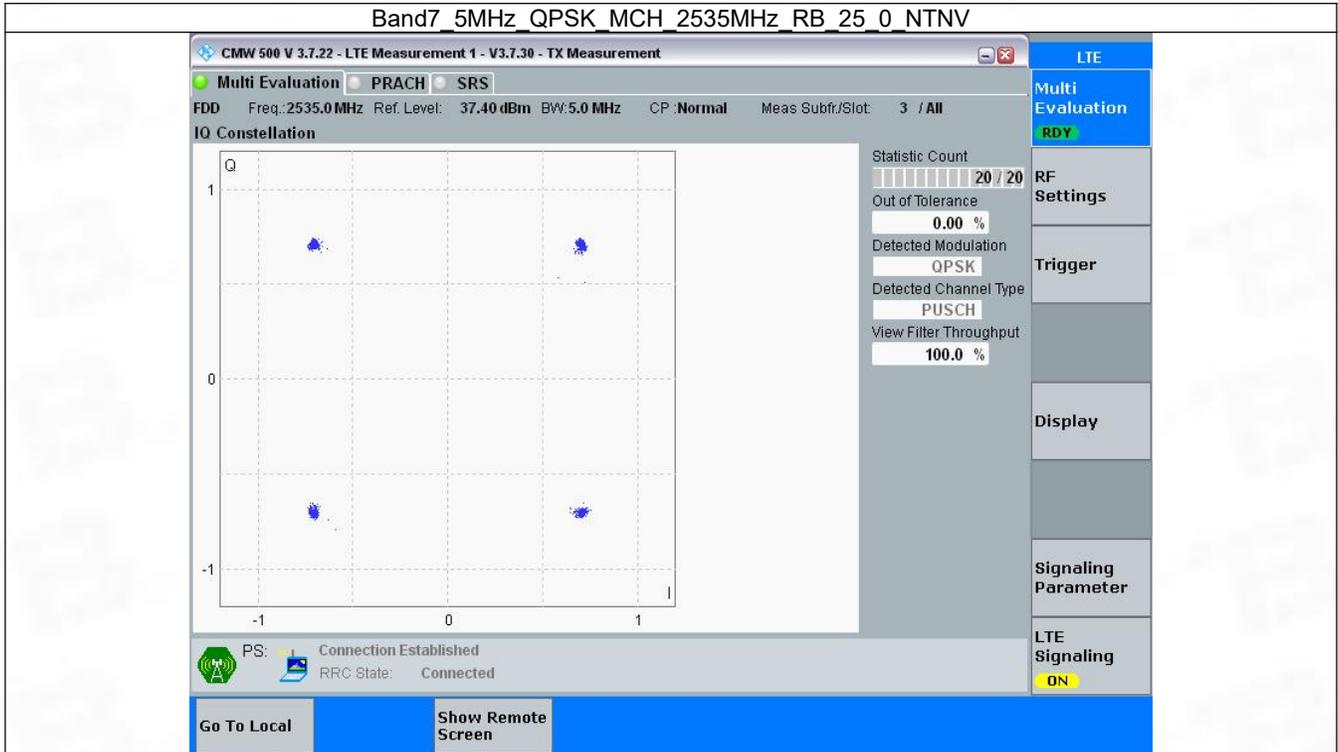
3. Modulation Characteristics

3.1 B7_5MHz

3.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	25	0	Refer To Test Graph		Pass
16QAM	2535	25	0	Refer To Test Graph		Pass

3.1.2 Test Graph

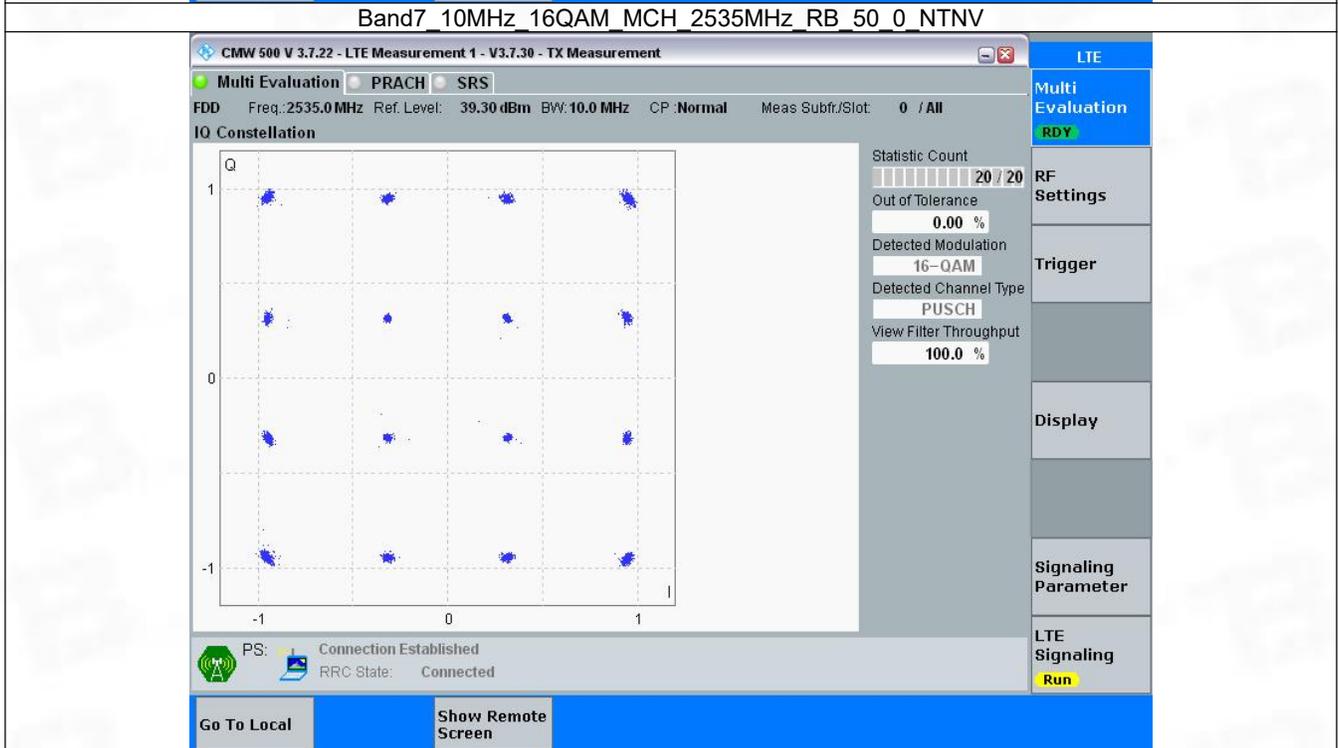
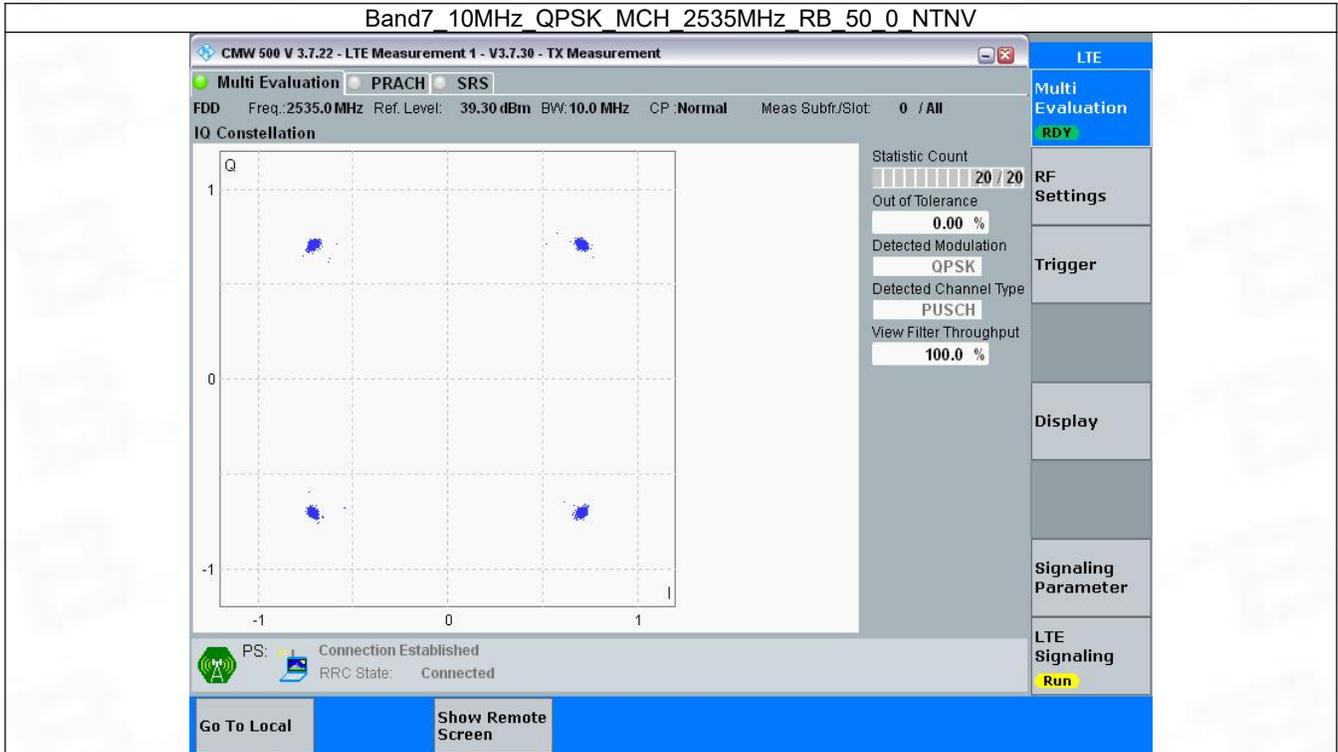


3.2 B7_10MHz

3.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	50	0	Refer To Test Graph		Pass
16QAM	2535	50	0	Refer To Test Graph		Pass

3.2.2 Test Graph

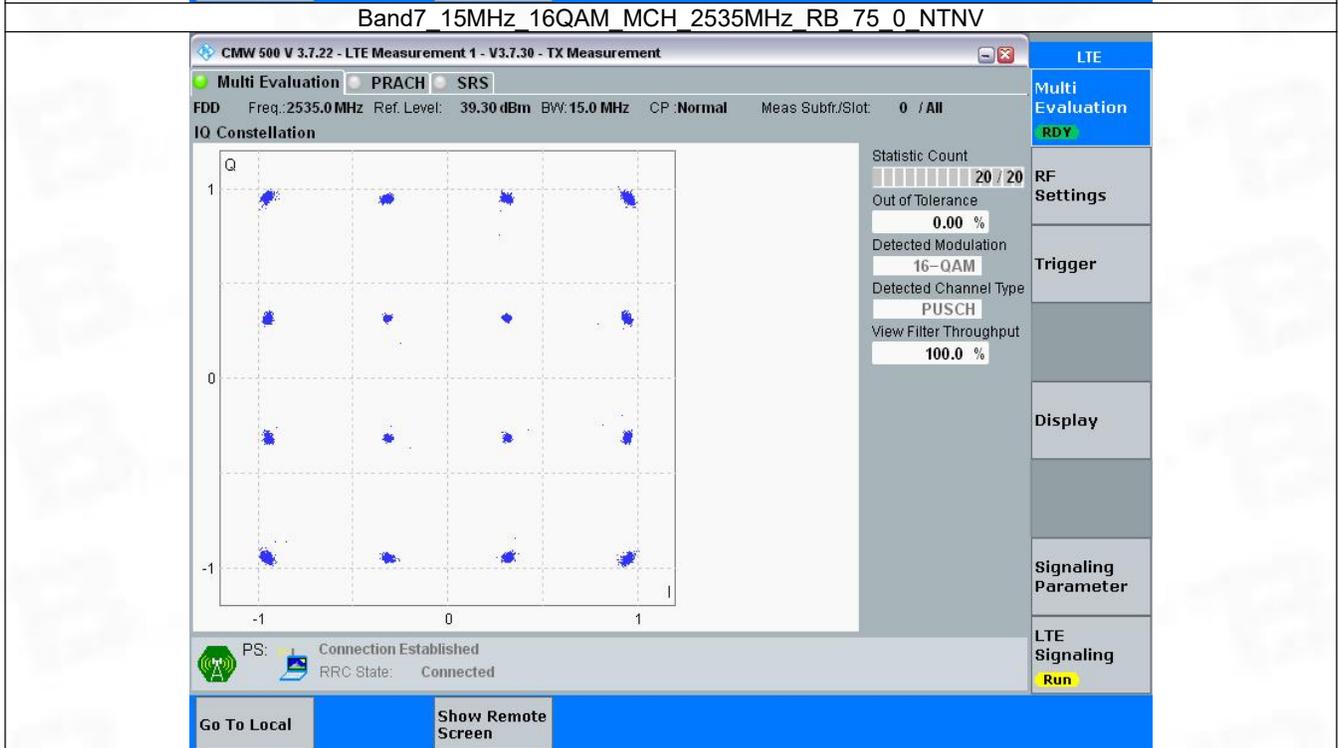
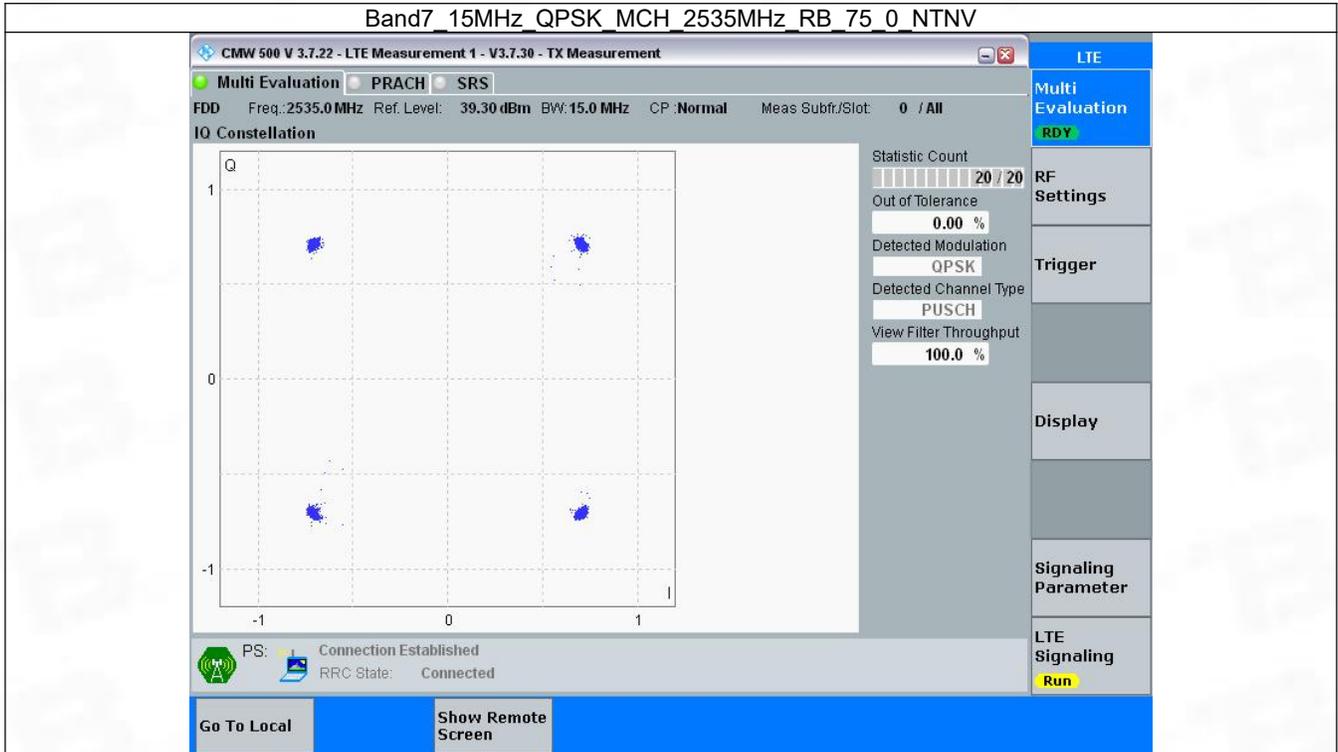


3.3 B7_15MHz

3.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	75	0	Refer To Test Graph		Pass
16QAM	2535	75	0	Refer To Test Graph		Pass

3.3.2 Test Graph

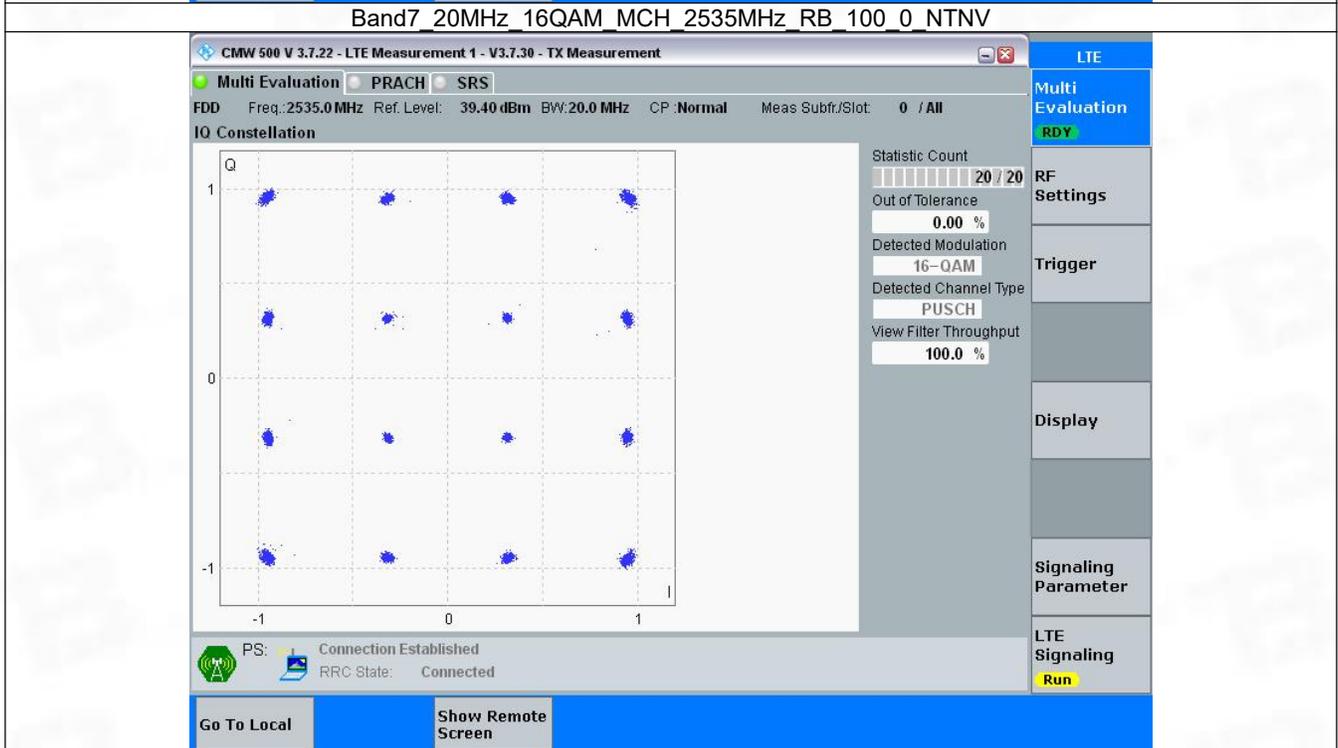
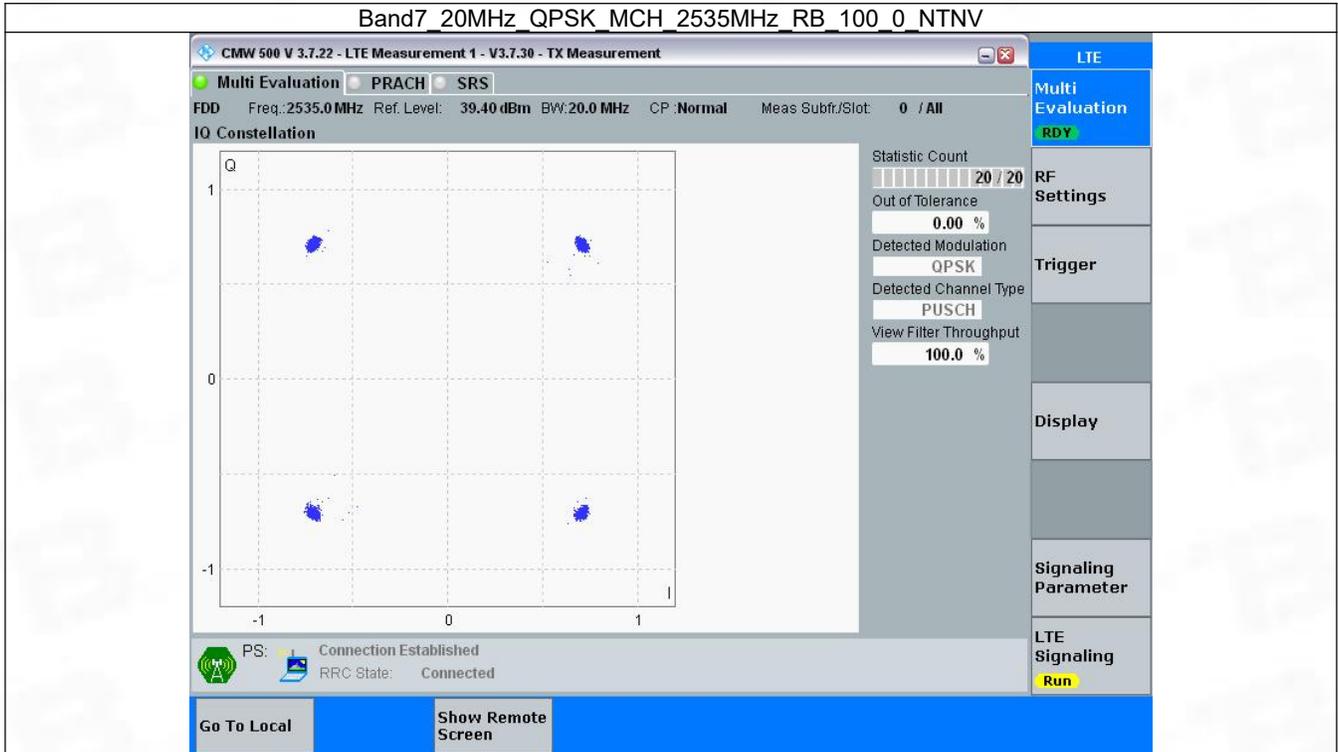


3.4 B7_20MHz

3.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	Refer To Test Graph		Pass
16QAM	2535	100	0	Refer To Test Graph		Pass

3.4.2 Test Graph



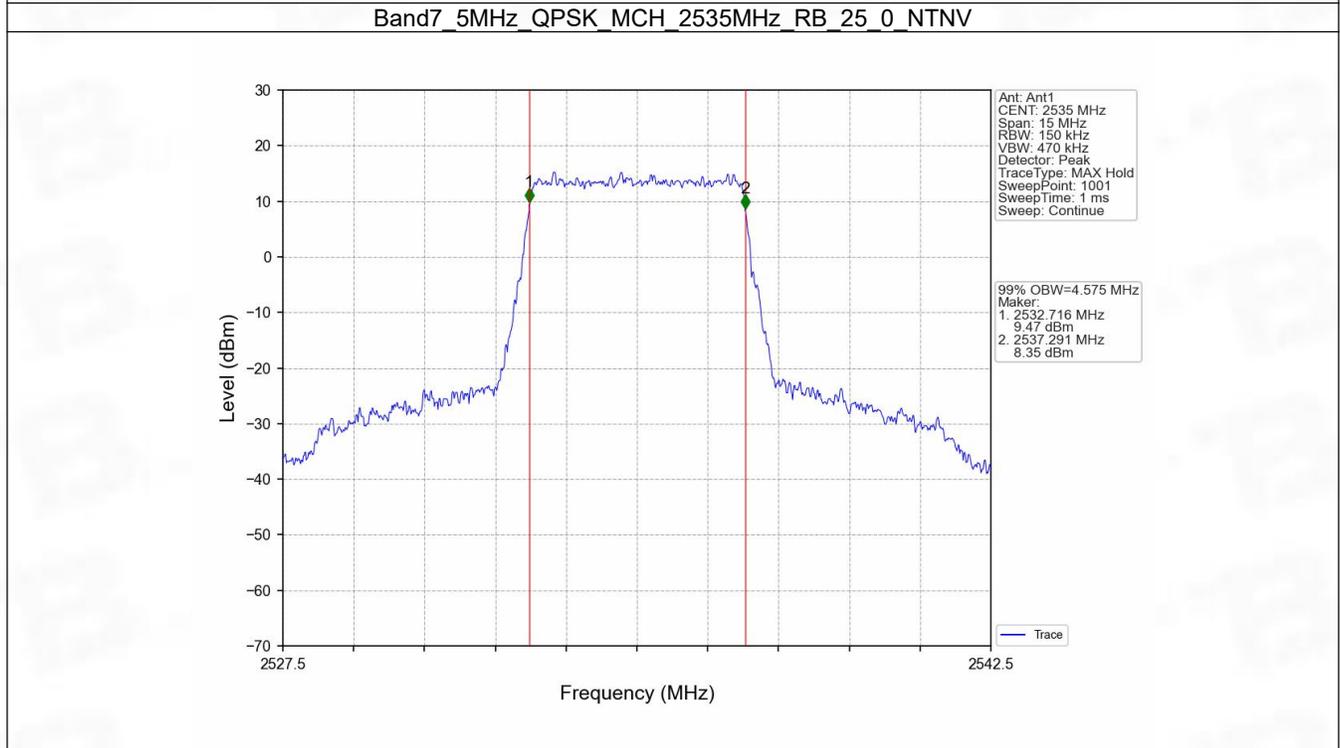
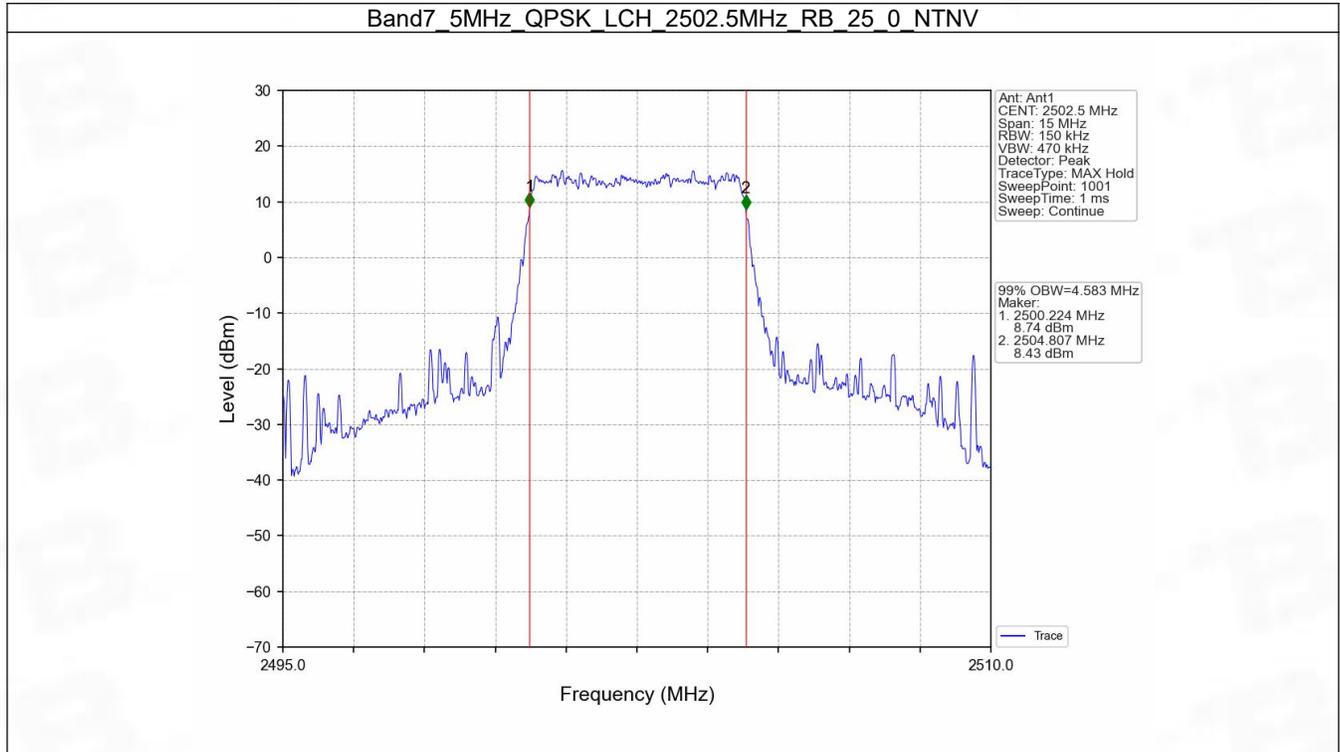
4. 99% & 26dB Bandwidth

4.1 Band7_OBW

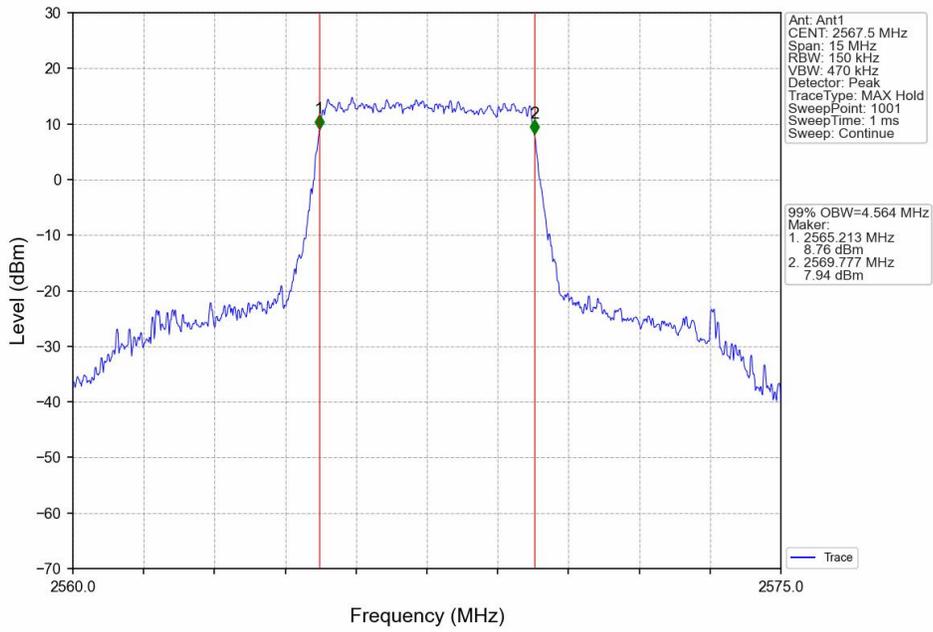
4.1.1 Test Result

Band: 7 / NTN						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2502.5	25	0	4.583	Pass
		2535	25	0	4.575	Pass
		2567.5	25	0	4.564	Pass
	16QAM	2502.5	25	0	4.558	Pass
		2535	25	0	4.580	Pass
		2567.5	25	0	4.580	Pass
10	QPSK	2505	50	0	9.084	Pass
		2535	50	0	9.074	Pass
		2565	50	0	9.104	Pass
	16QAM	2505	50	0	9.119	Pass
		2535	50	0	9.123	Pass
		2565	50	0	9.074	Pass
15	QPSK	2507.5	75	0	13.648	Pass
		2535	75	0	13.627	Pass
		2562.5	75	0	13.620	Pass
	16QAM	2507.5	75	0	13.682	Pass
		2535	75	0	13.676	Pass
		2562.5	75	0	13.551	Pass
20	QPSK	2510	100	0	18.136	Pass
		2535	100	0	18.202	Pass
		2560	100	0	18.129	Pass
	16QAM	2510	100	0	18.180	Pass
		2535	100	0	18.109	Pass
		2560	100	0	18.061	Pass

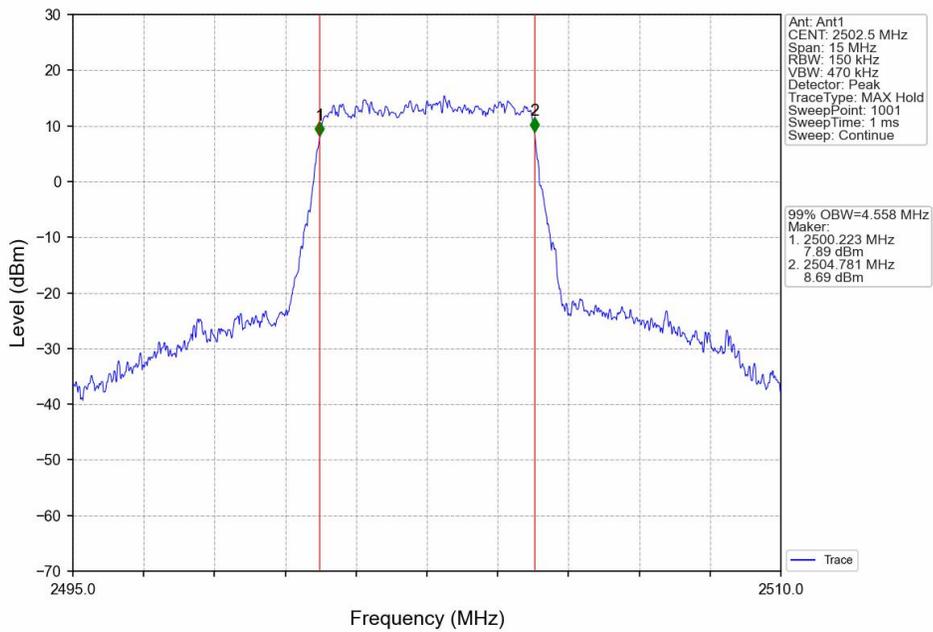
4.1.2 Test Graph



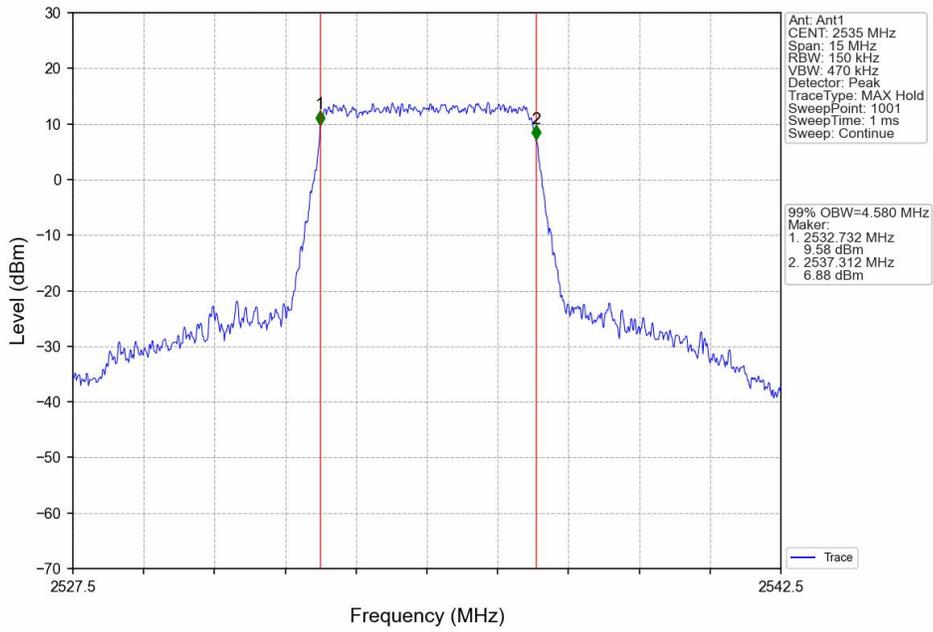
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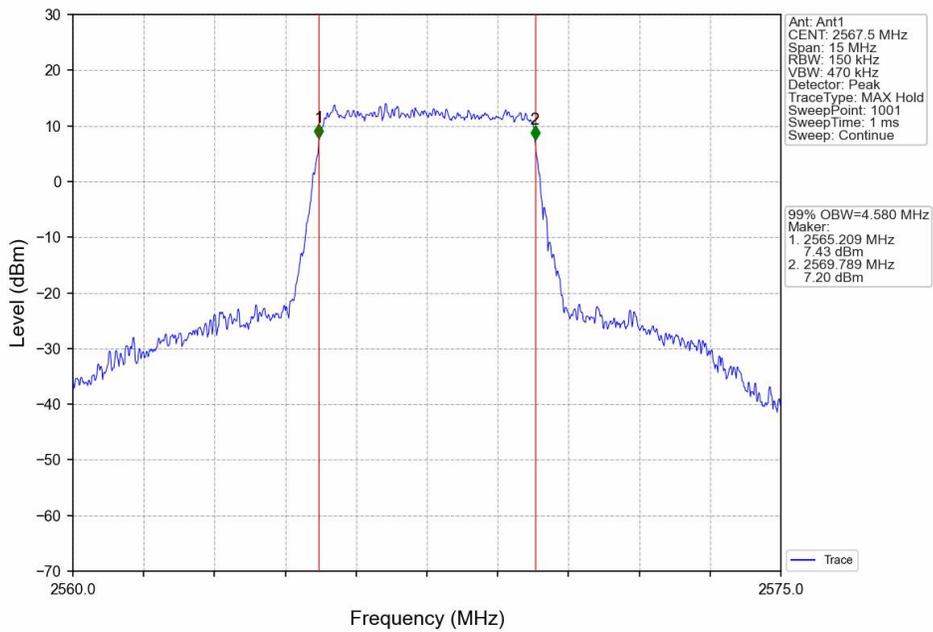
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



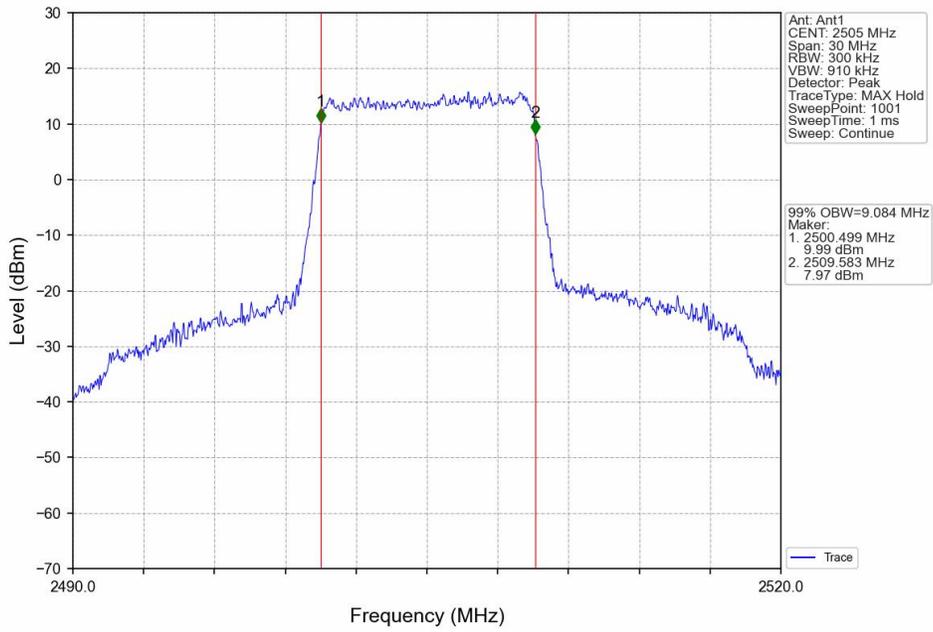
Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV



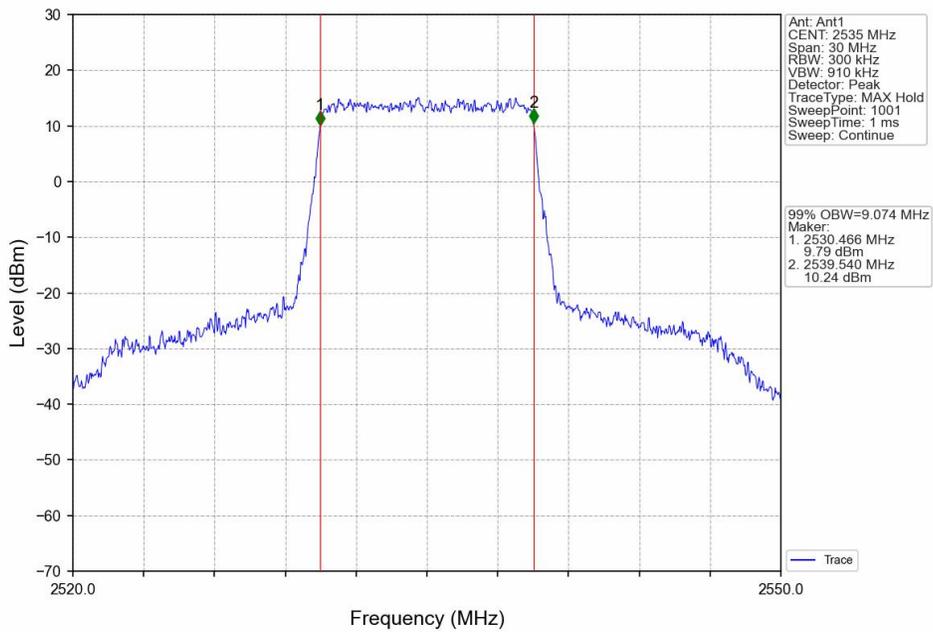
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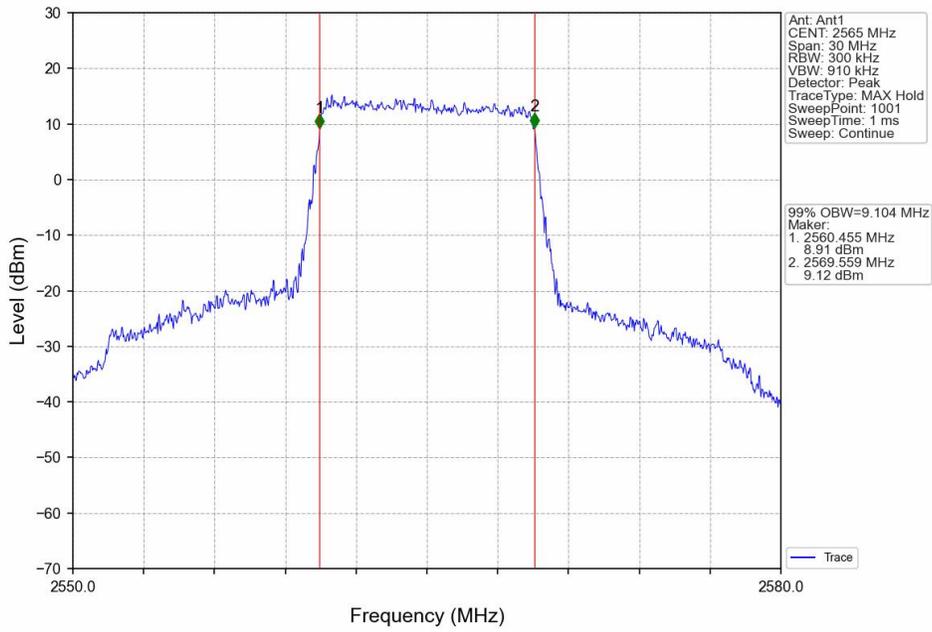
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



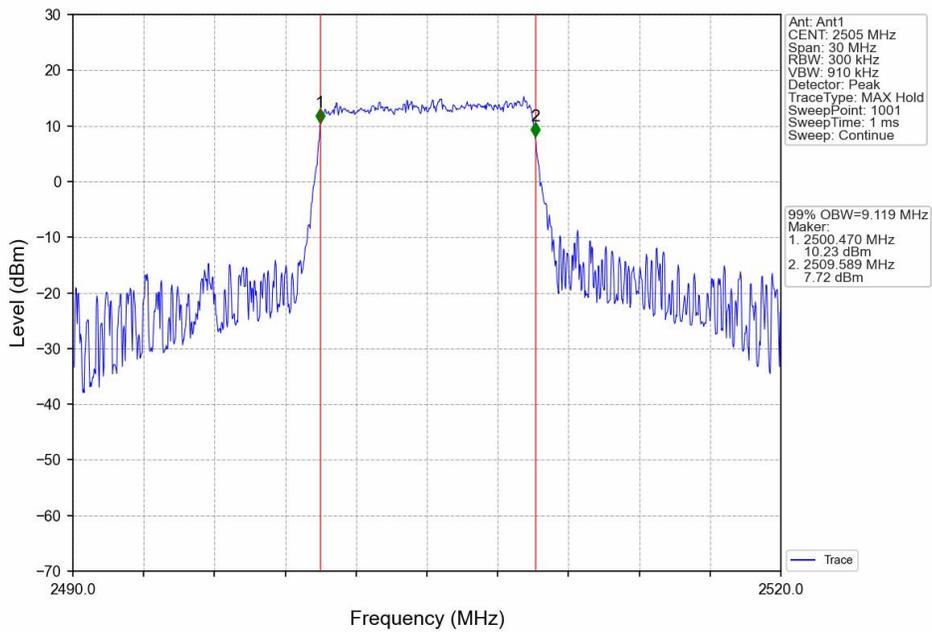
Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



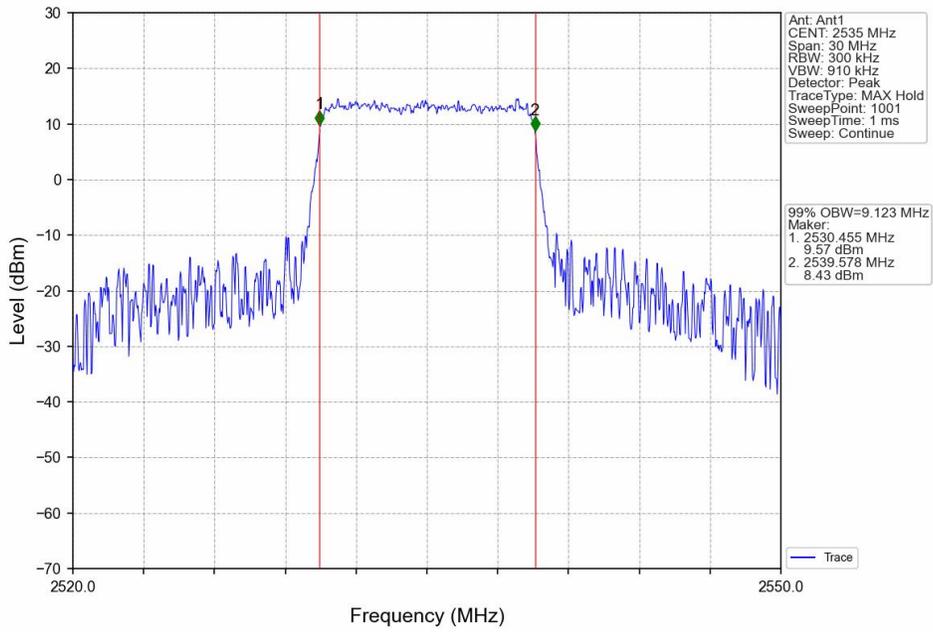
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



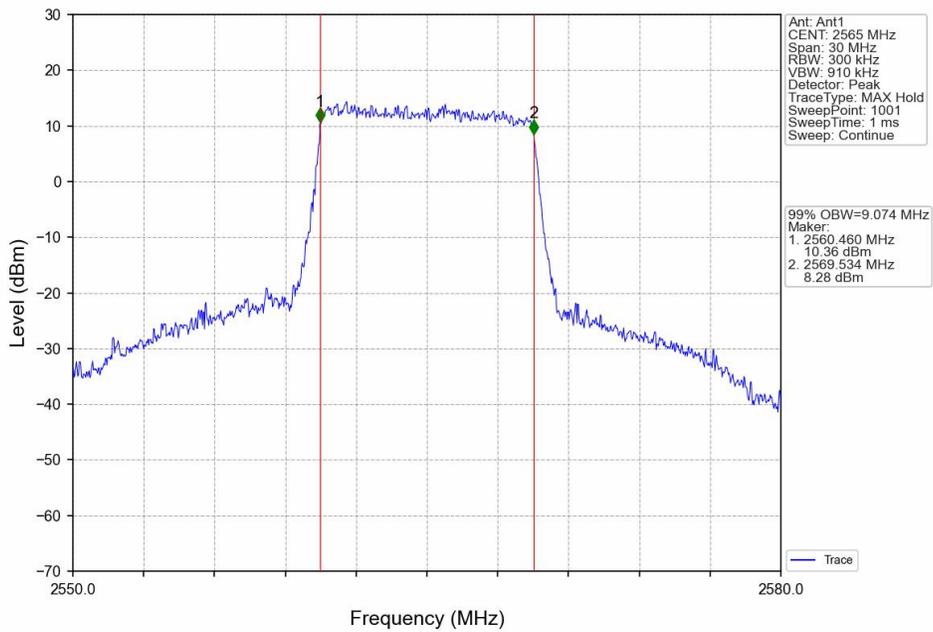
Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



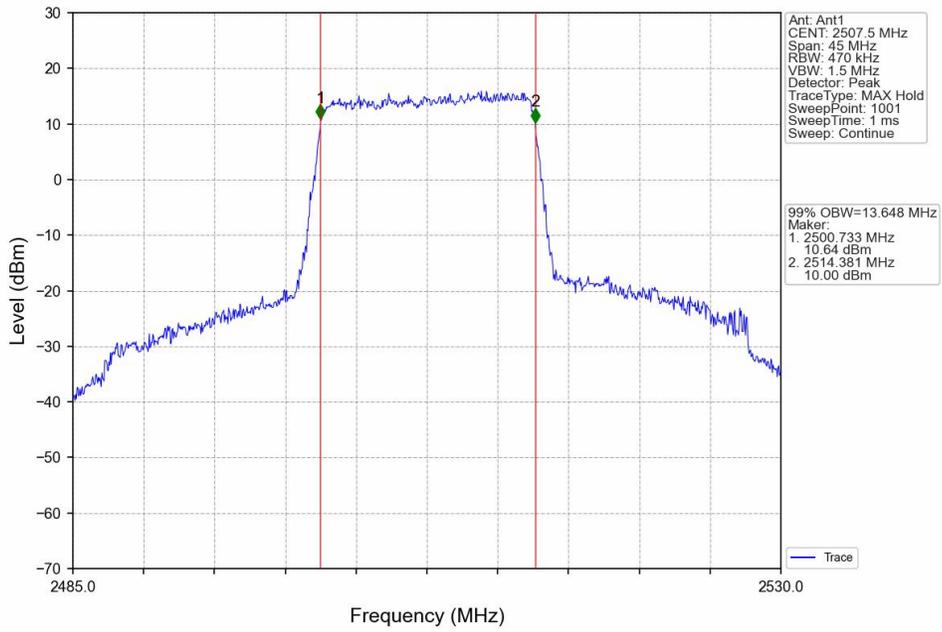
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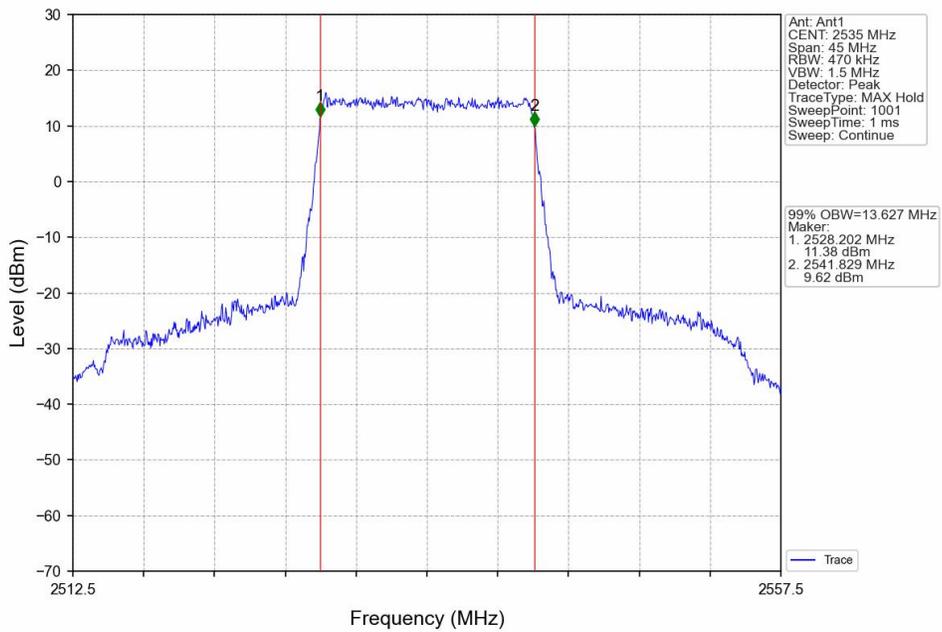
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



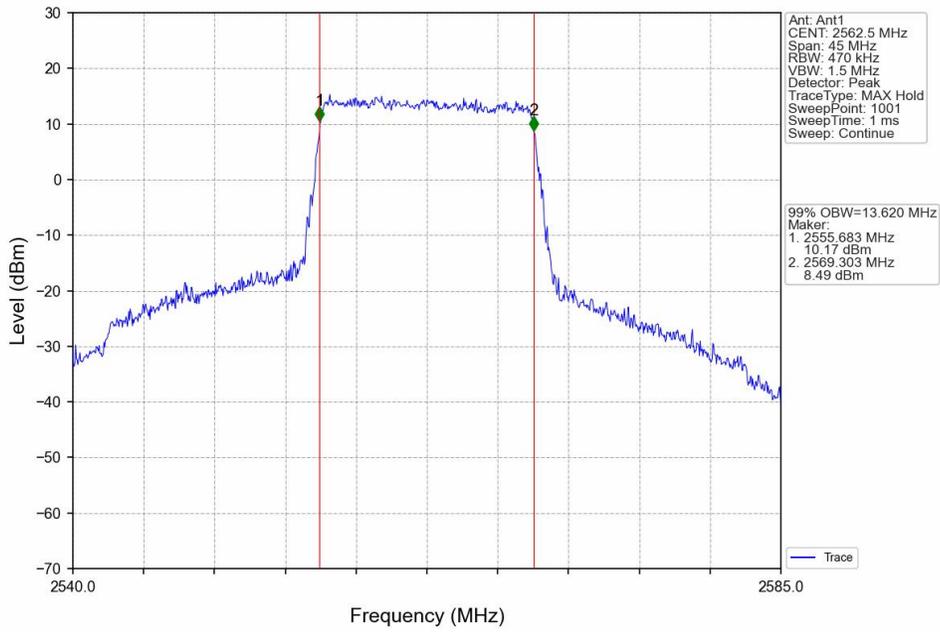
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



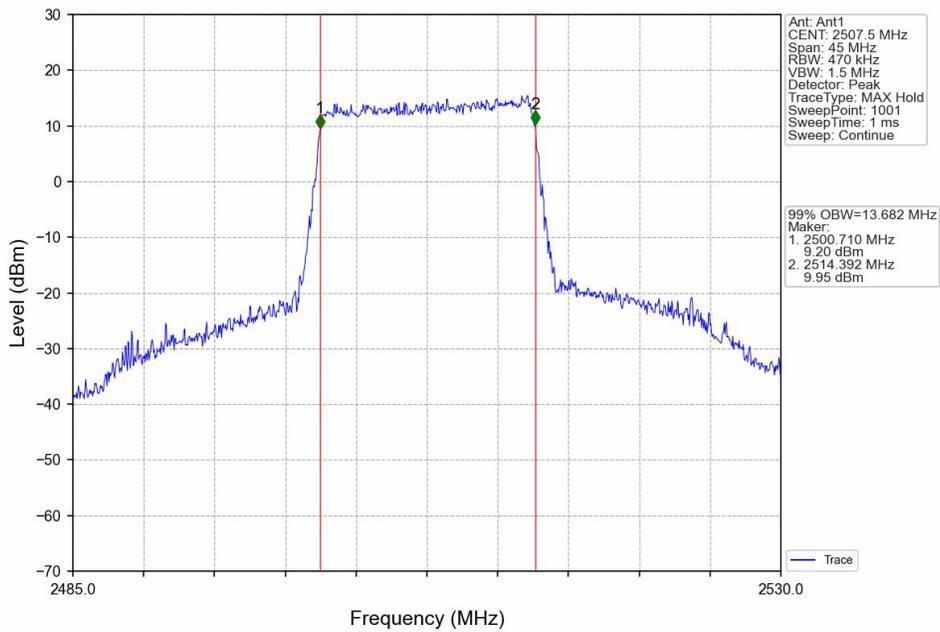
Band7_15MHz_QPSK_MCH_2535MHz_RB_75_0_NTNV



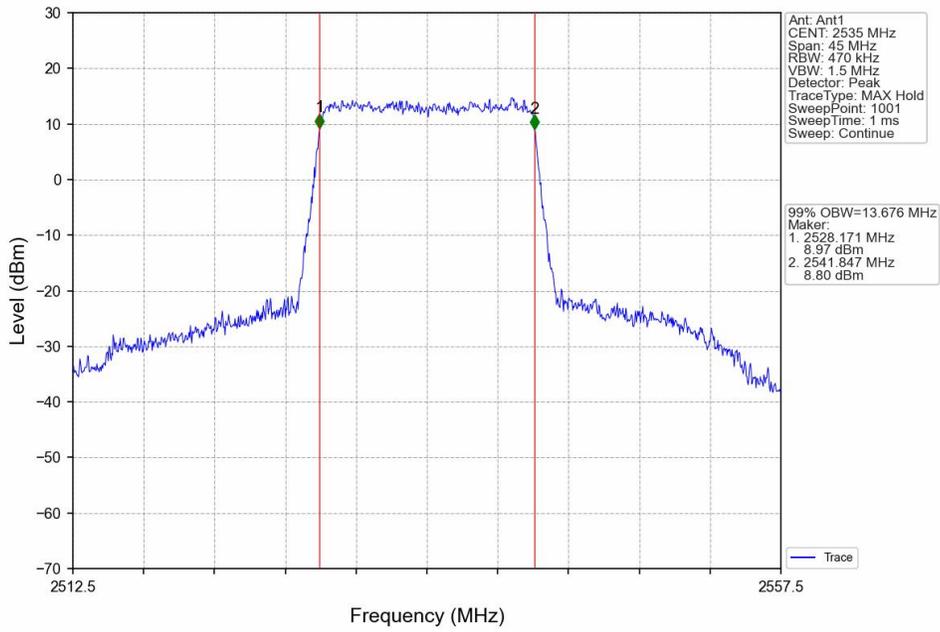
Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTNV



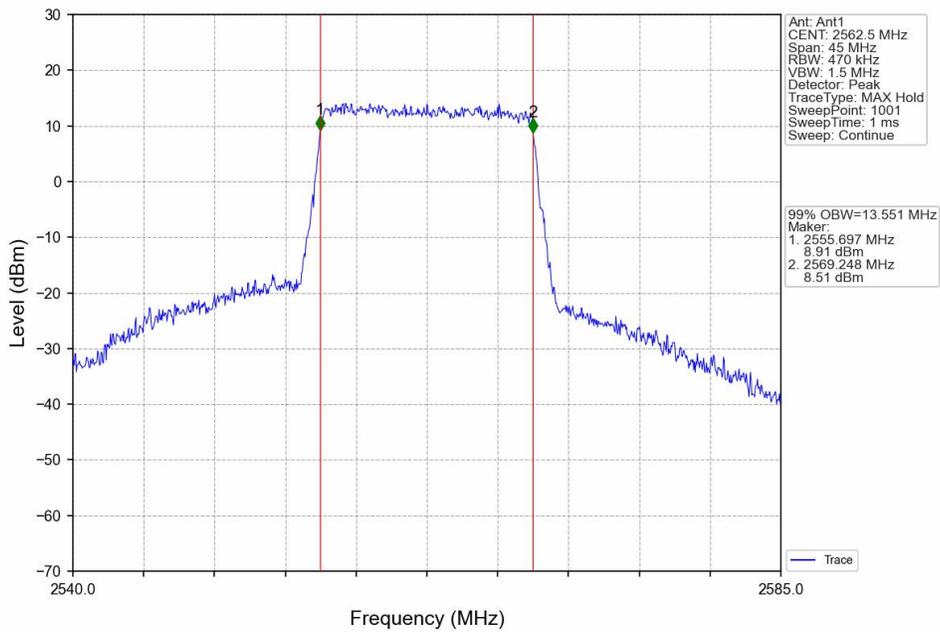
Band7 15MHz 16QAM LCH 2507.5MHz RB 75 0 NTNV



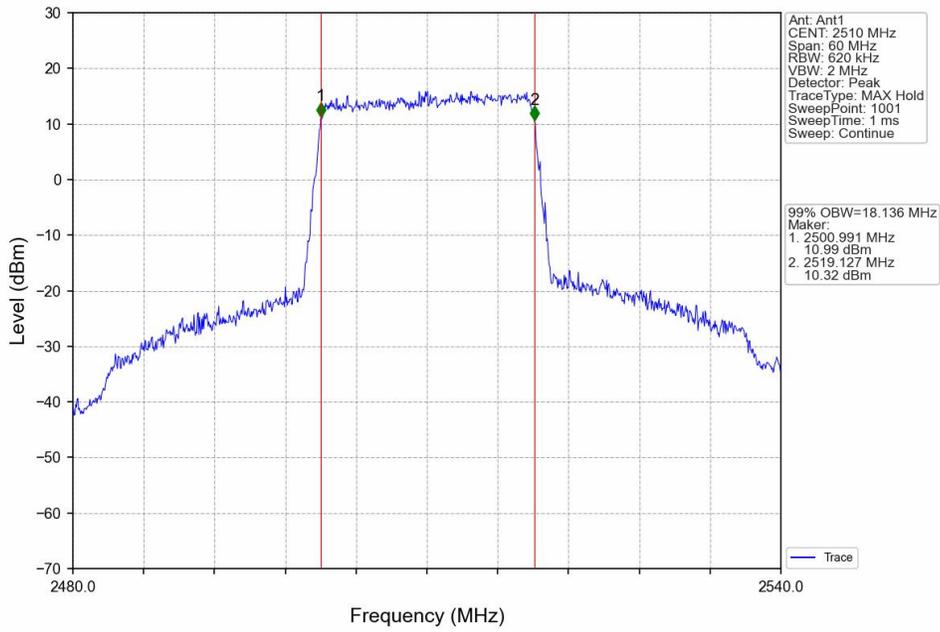
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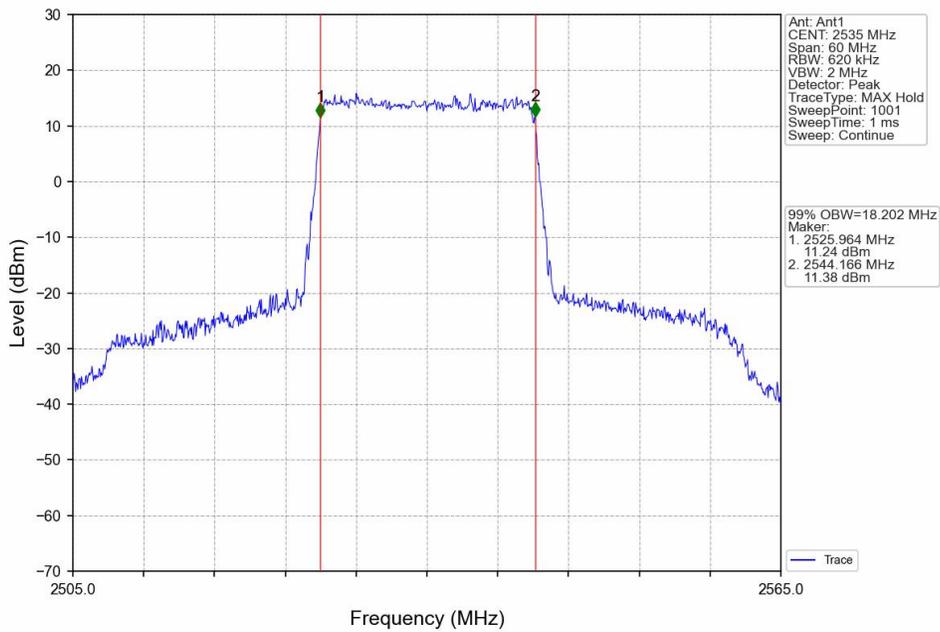
Band7_15MHz_16QAM_HCH_2562.5MHz_RB_75_0_NTNV



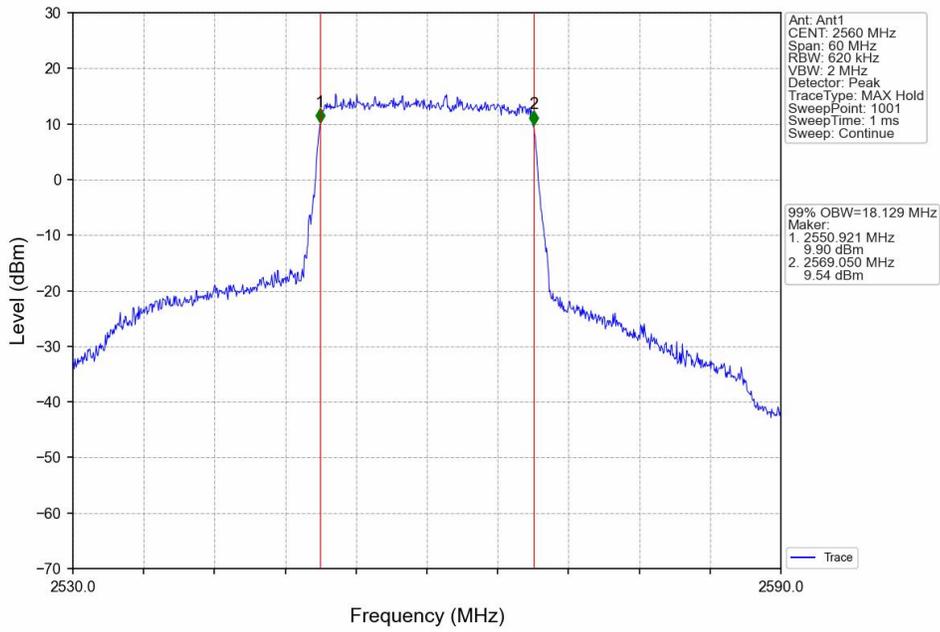
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



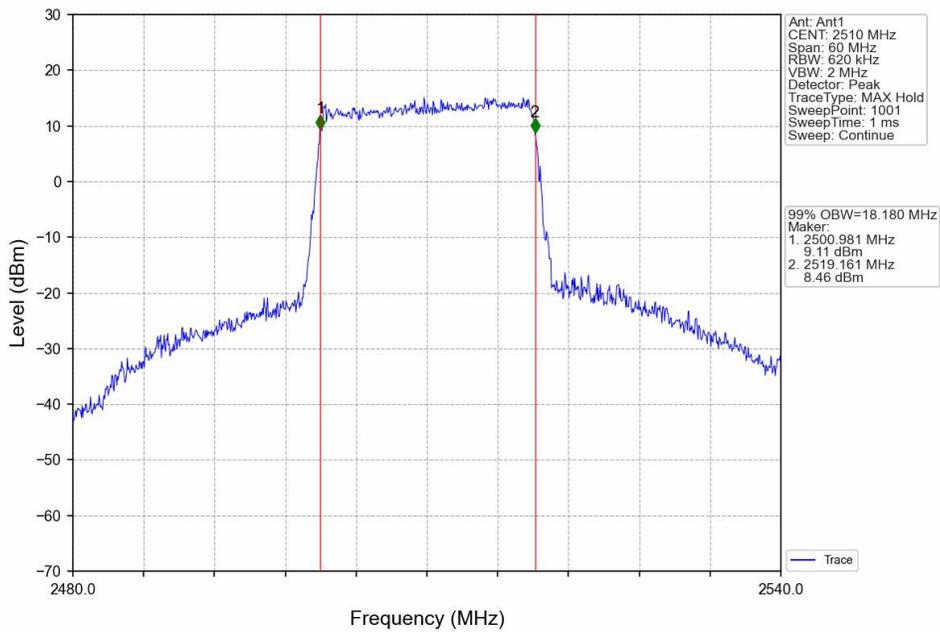
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



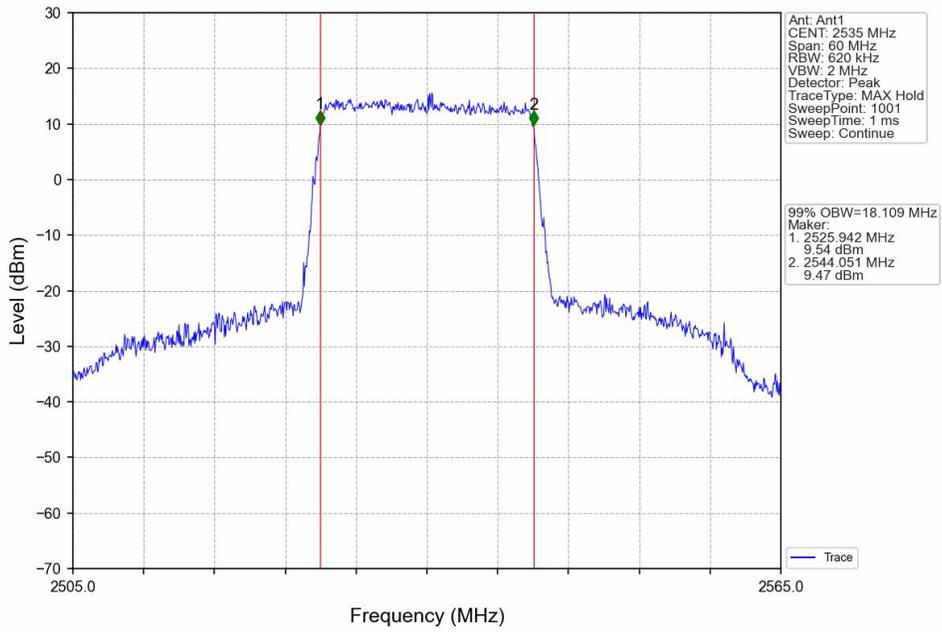
Band7 20MHz QPSK HCH 2560MHz RB 100 0 NTNV



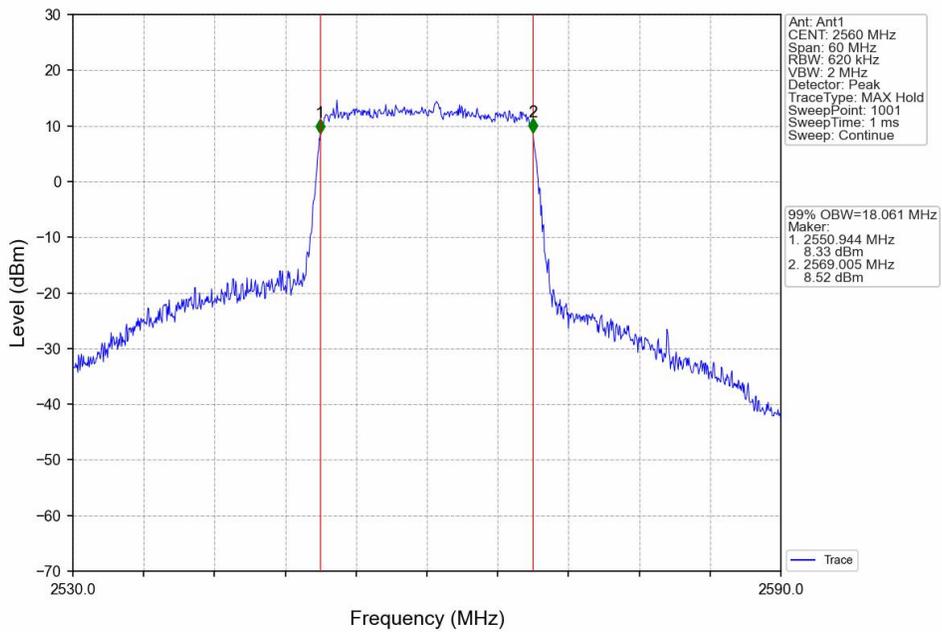
Band7 20MHz 16QAM LCH 2510MHz RB 100 0 NTNV



Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTN



Band7 20MHz 16QAM HCH 2560MHz RB 100 0 NTN

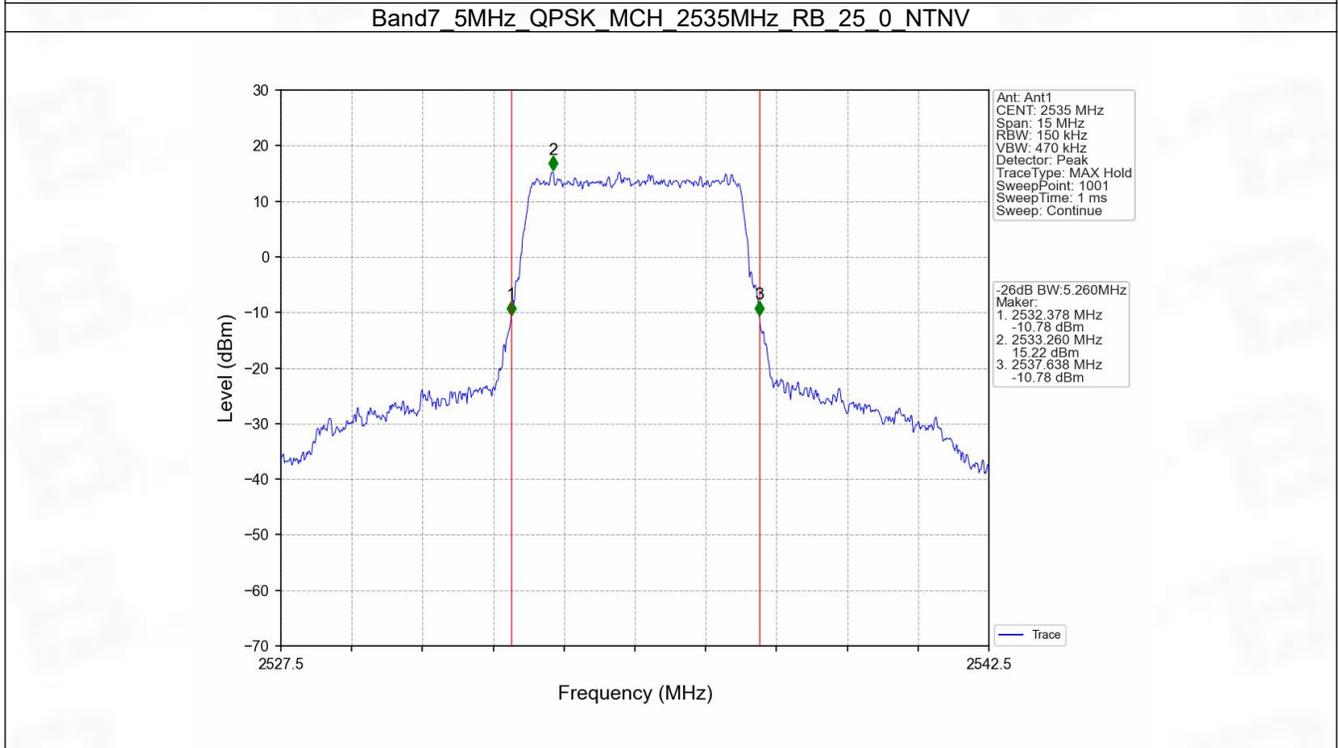
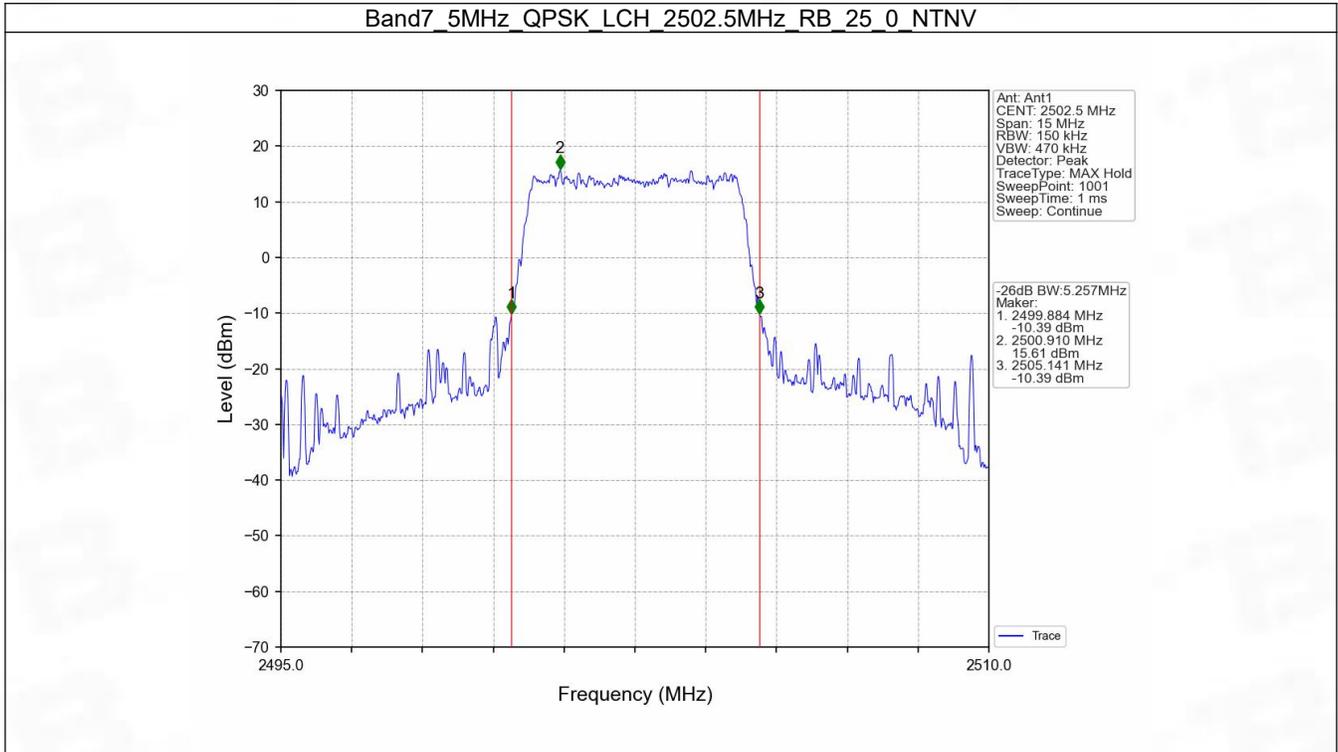


4.2 Band7_XDB

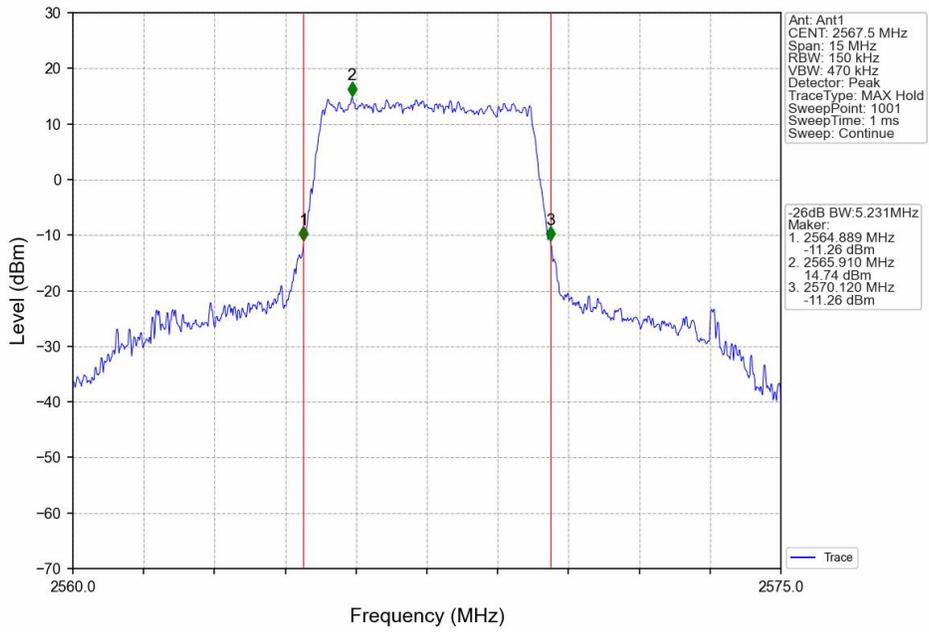
4.2.1 Test Result

Band: 7 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2502.5	25	0	5.257	Pass
		2535	25	0	5.260	Pass
		2567.5	25	0	5.231	Pass
	16QAM	2502.5	25	0	5.240	Pass
		2535	25	0	5.331	Pass
		2567.5	25	0	5.228	Pass
10	QPSK	2505	50	0	10.214	Pass
		2535	50	0	10.211	Pass
		2565	50	0	10.319	Pass
	16QAM	2505	50	0	12.012	Pass
		2535	50	0	12.127	Pass
		2565	50	0	10.183	Pass
15	QPSK	2507.5	75	0	15.259	Pass
		2535	75	0	15.319	Pass
		2562.5	75	0	15.377	Pass
	16QAM	2507.5	75	0	15.259	Pass
		2535	75	0	15.371	Pass
		2562.5	75	0	15.351	Pass
20	QPSK	2510	100	0	20.051	Pass
		2535	100	0	20.029	Pass
		2560	100	0	20.067	Pass
	16QAM	2510	100	0	20.162	Pass
		2535	100	0	20.037	Pass
		2560	100	0	19.883	Pass

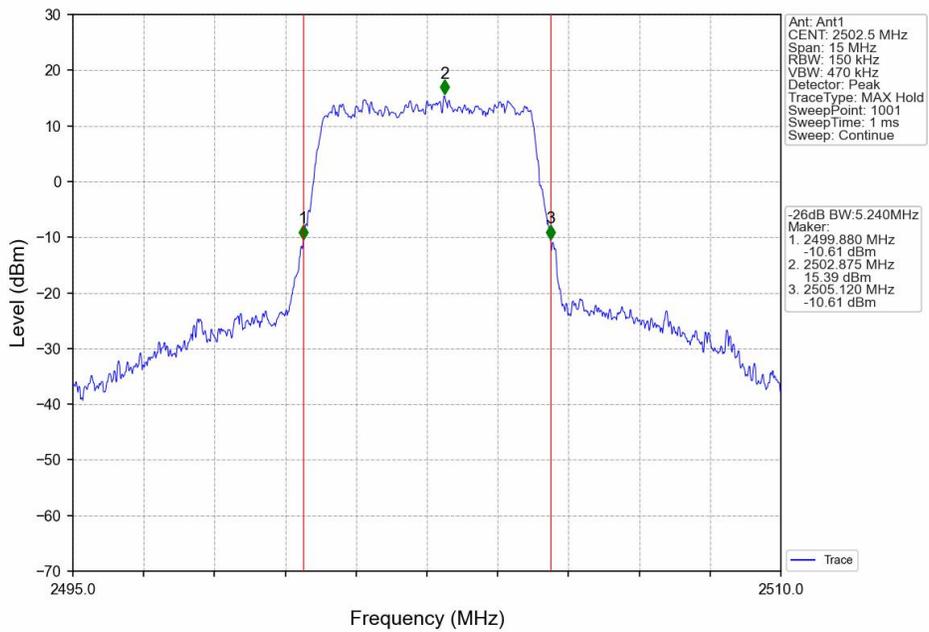
4.2.2 Test Graph



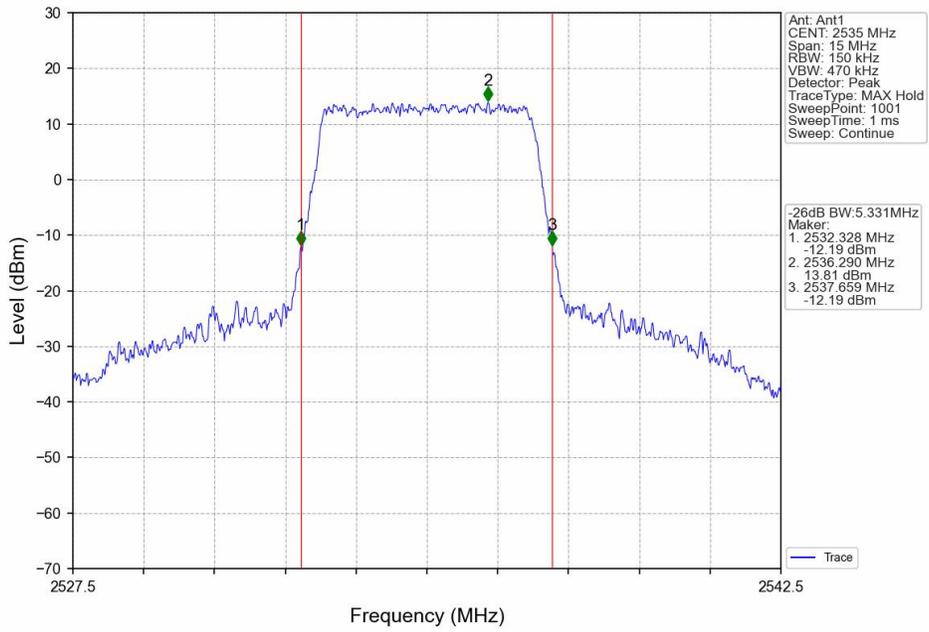
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



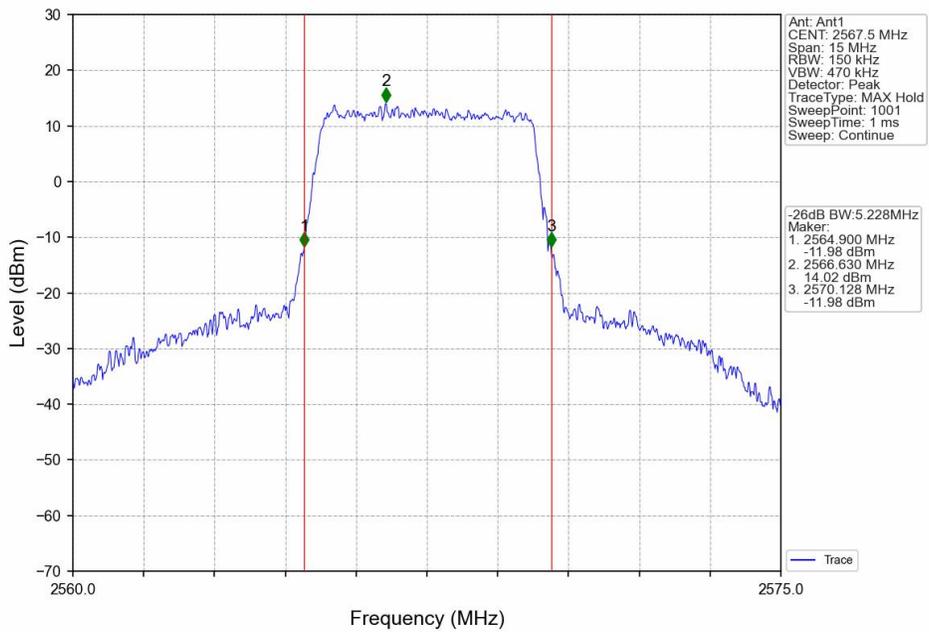
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV



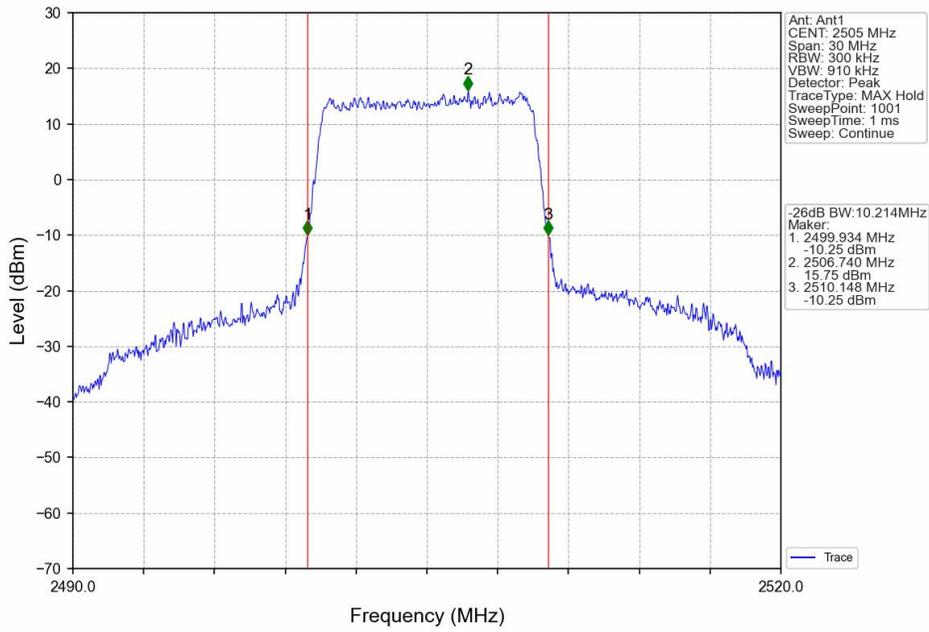
Band7_5MHz_16QAM_MCH_2535MHz_RB_25_0_NTNV



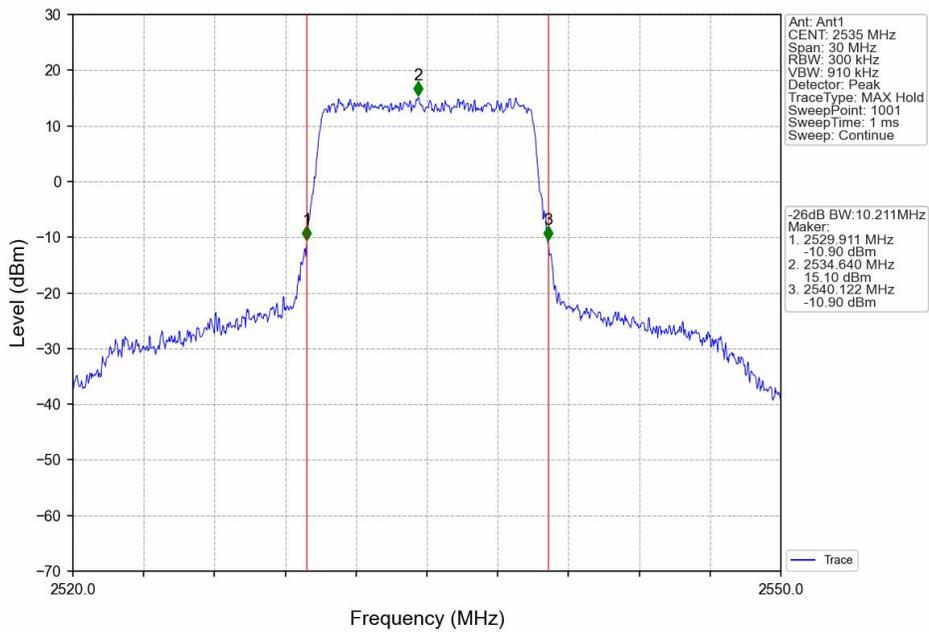
Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV



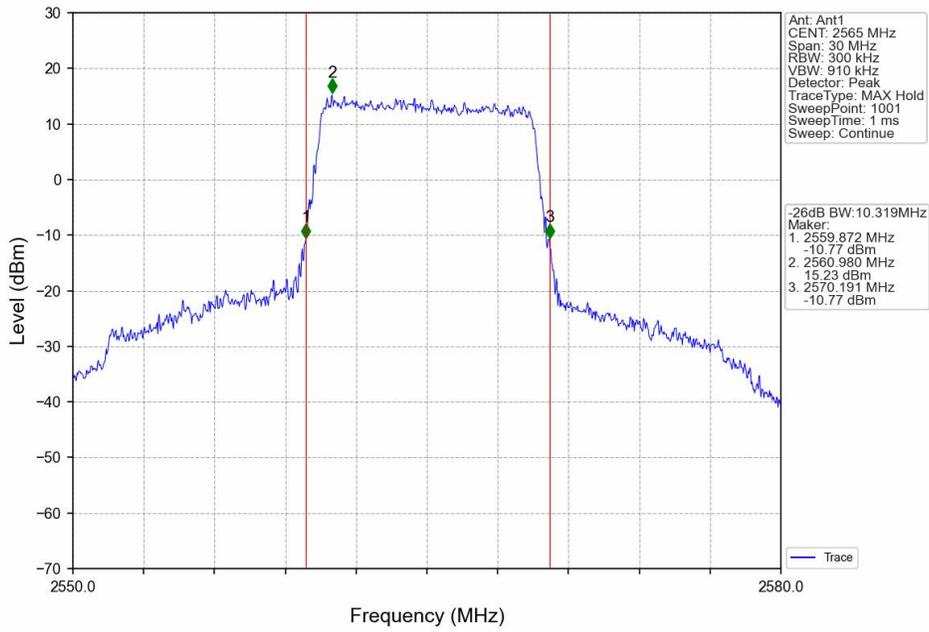
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



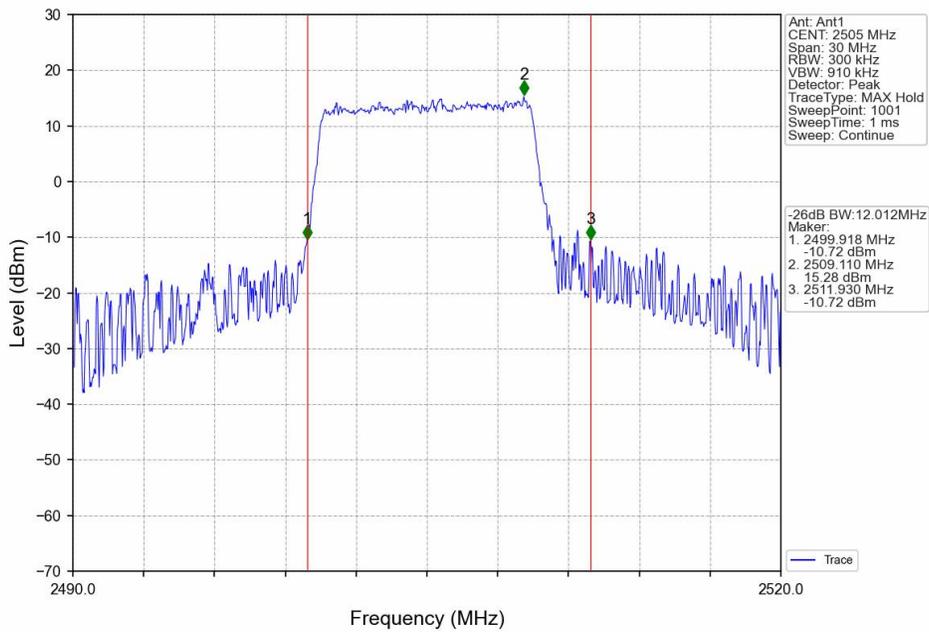
Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV



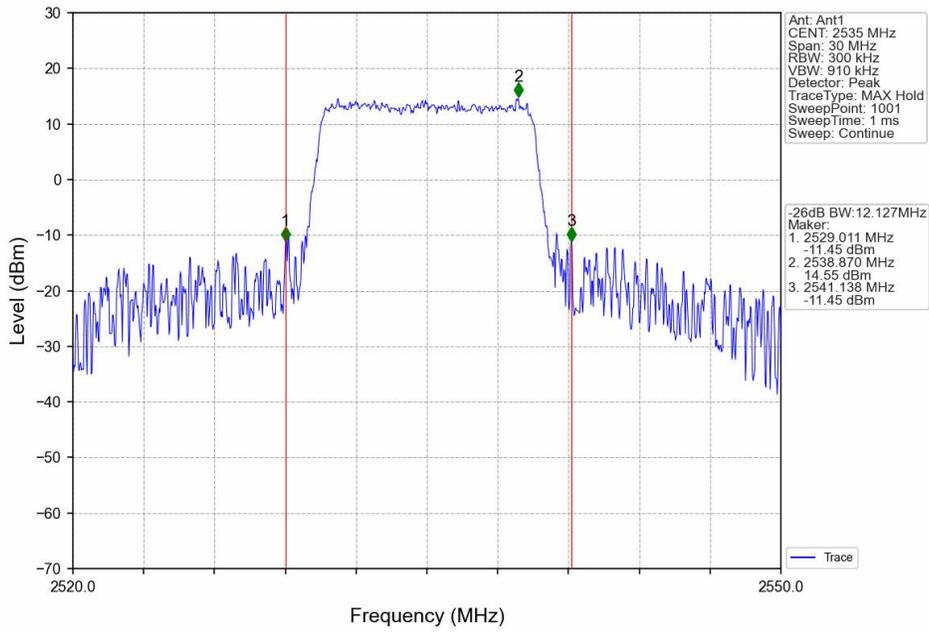
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



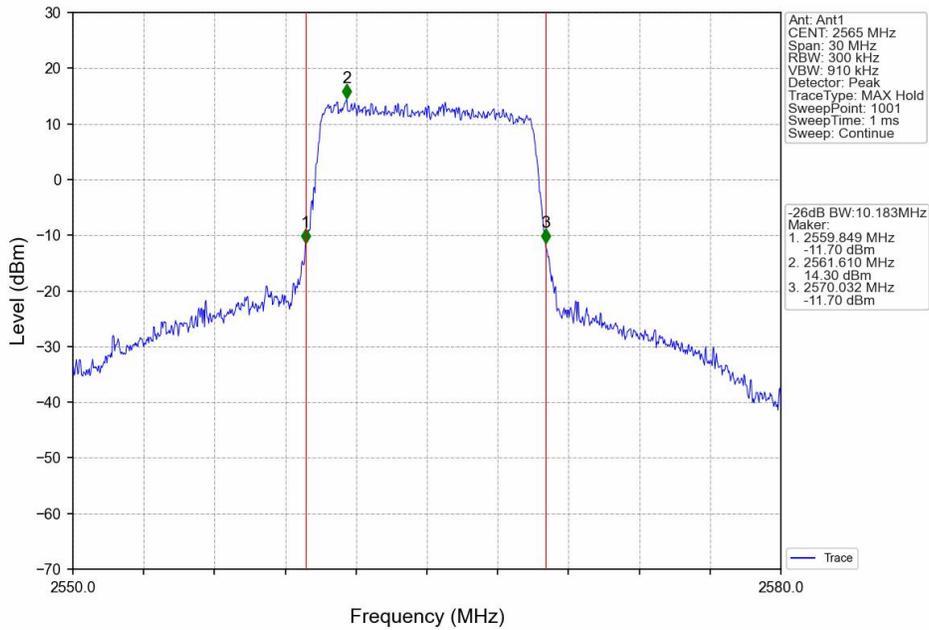
Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



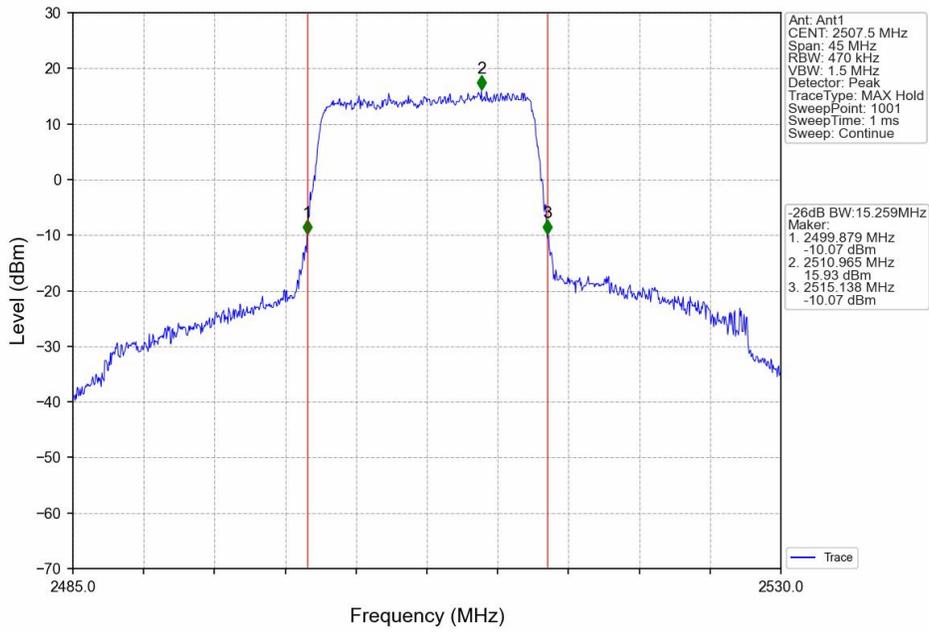
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



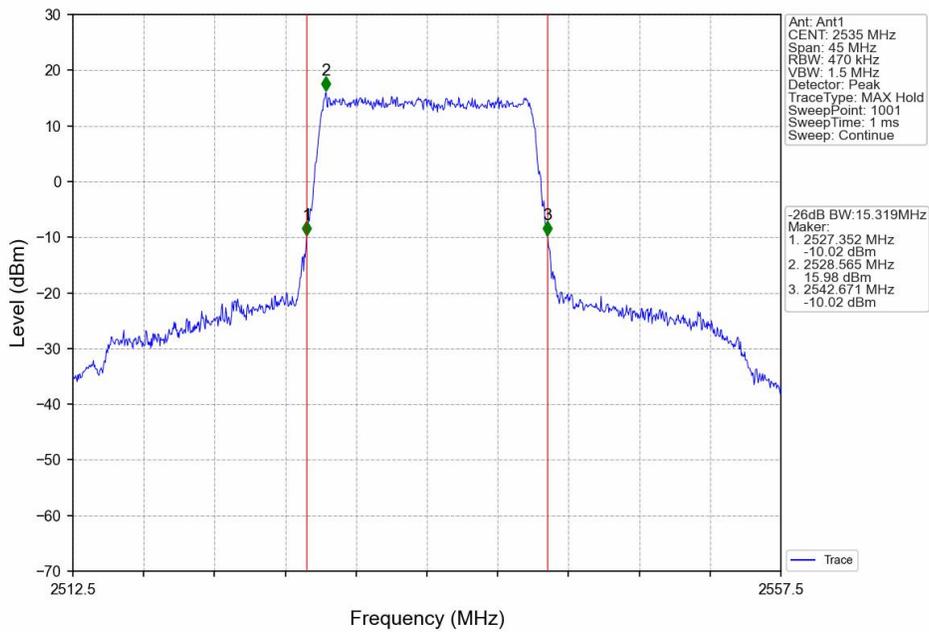
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



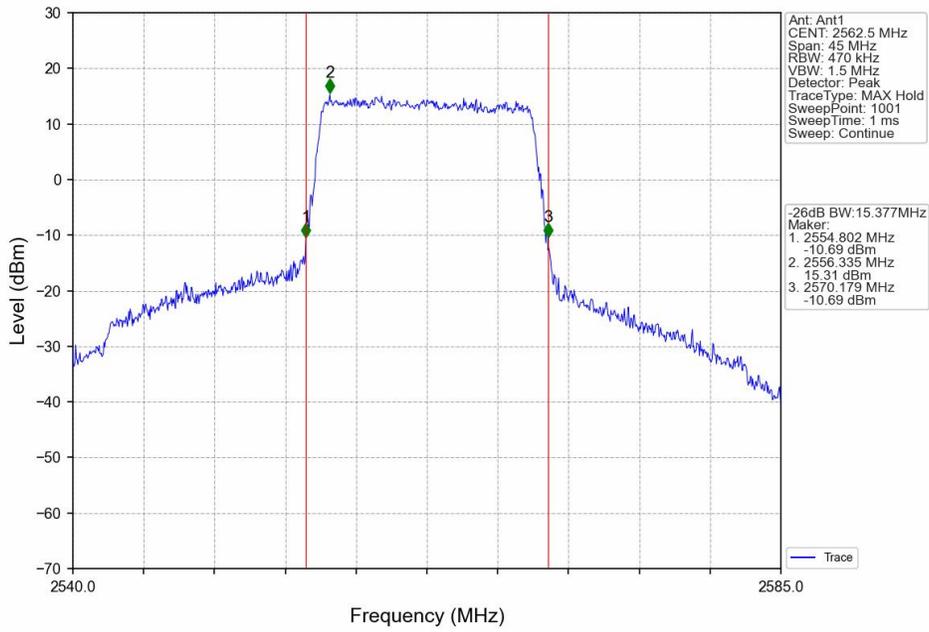
Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



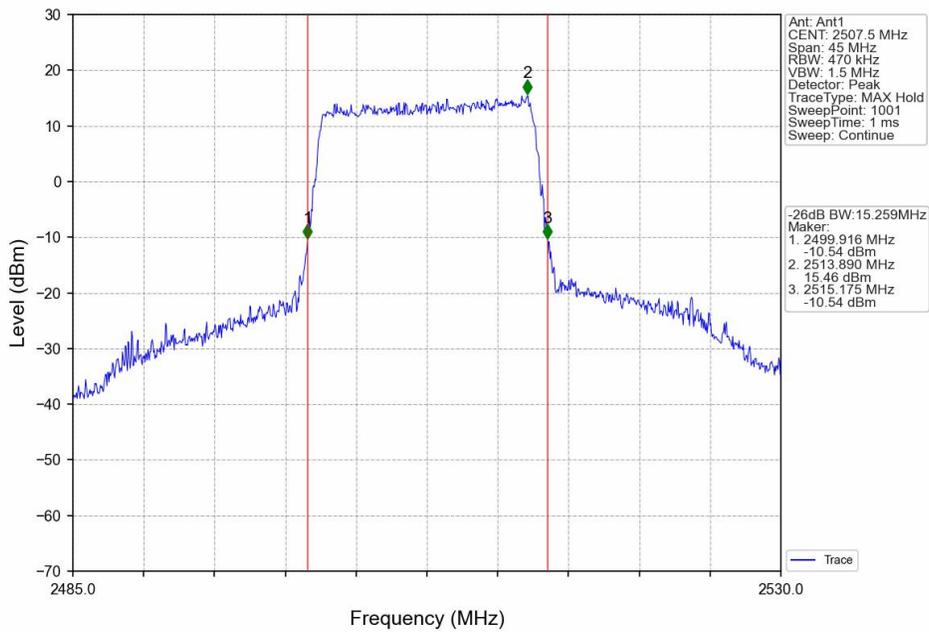
Band7_15MHz_QPSK_MCH_2535MHz_RB_75_0_NTNV



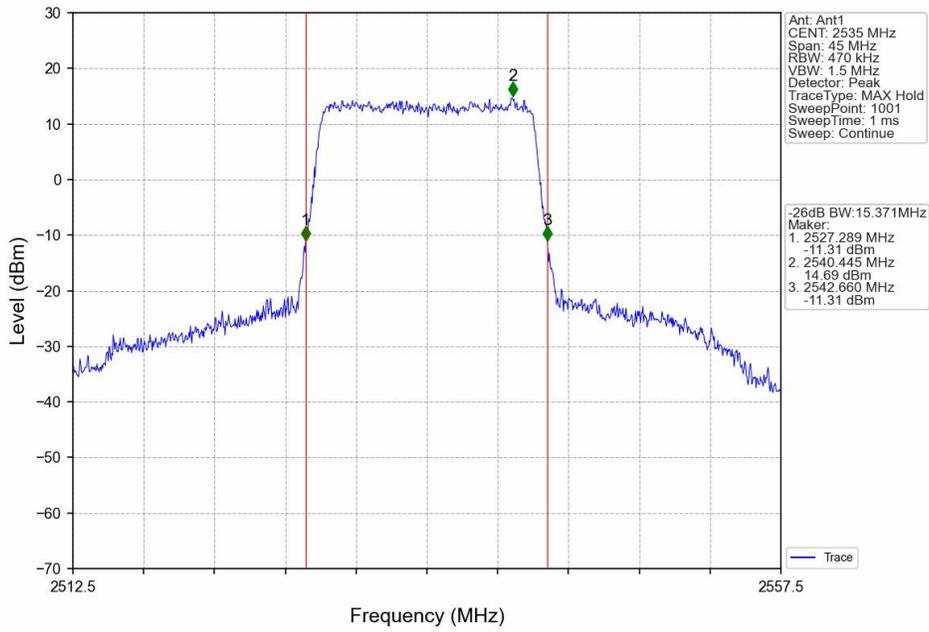
Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTNV



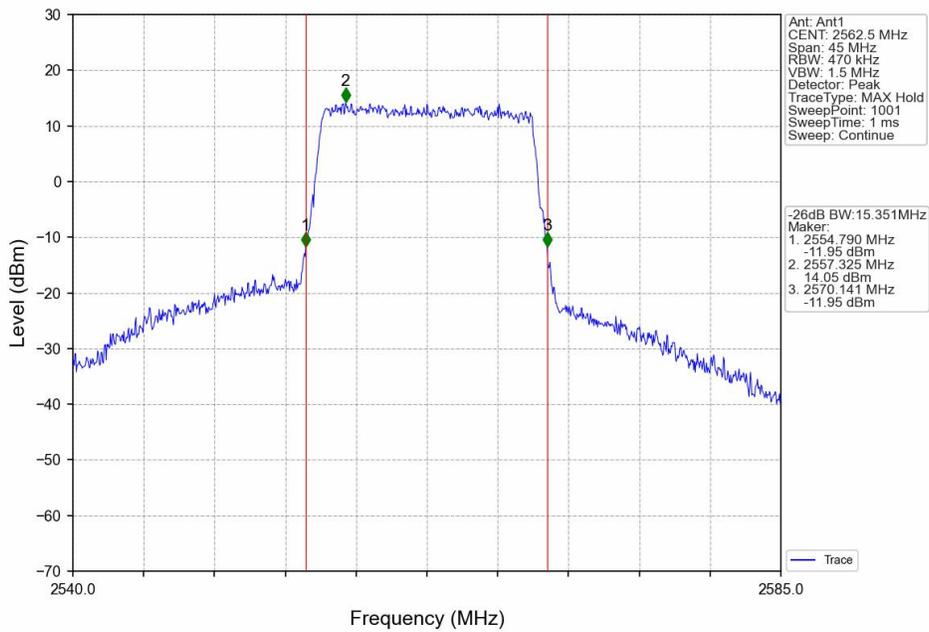
Band7 15MHz 16QAM LCH 2507.5MHz RB 75 0 NTNV



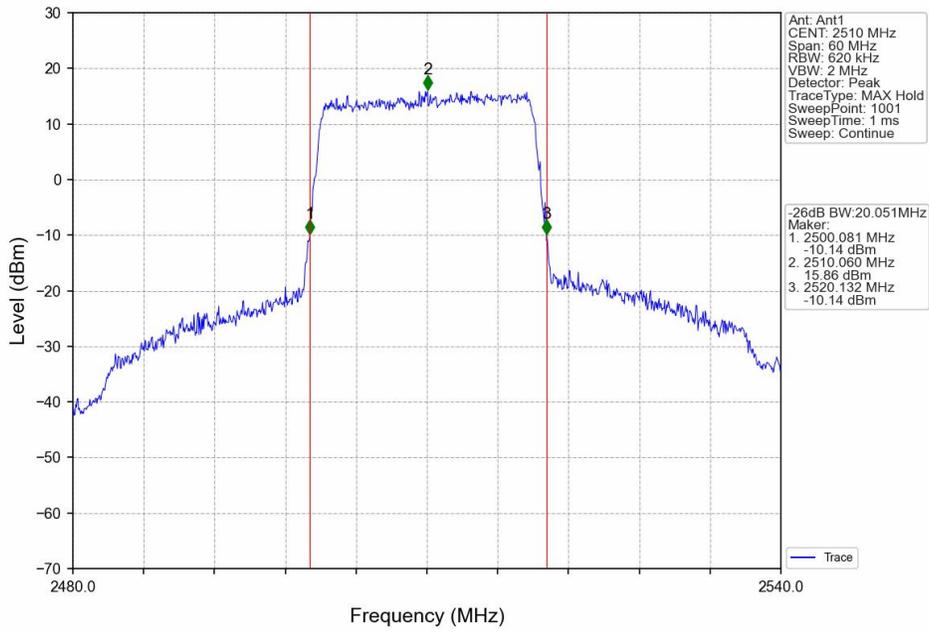
Band7_15MHz_16QAM_MCH_2535MHz_RB_75_0_NTNV



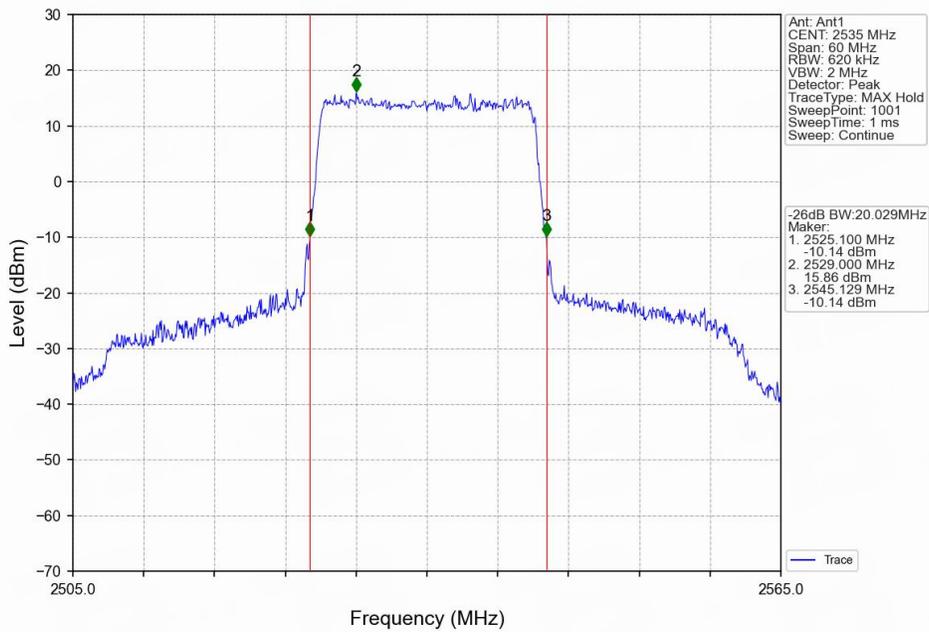
Band7_15MHz_16QAM_HCH_2562.5MHz_RB_75_0_NTNV



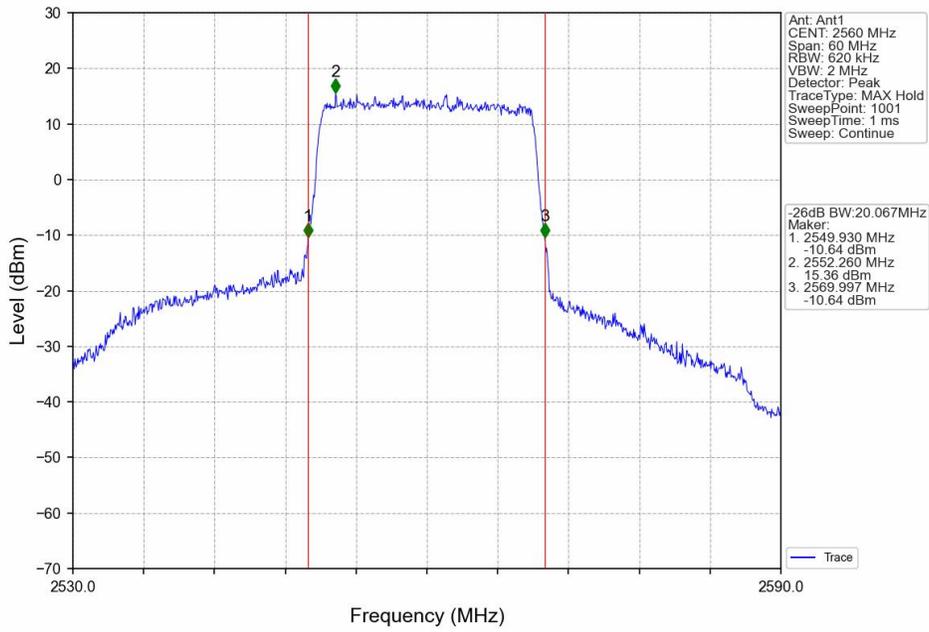
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



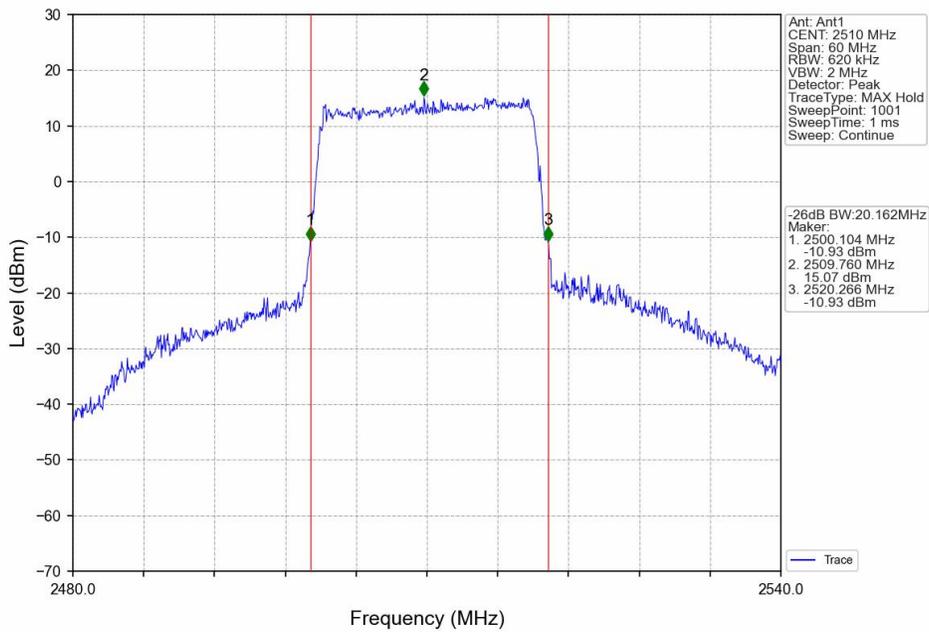
Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV



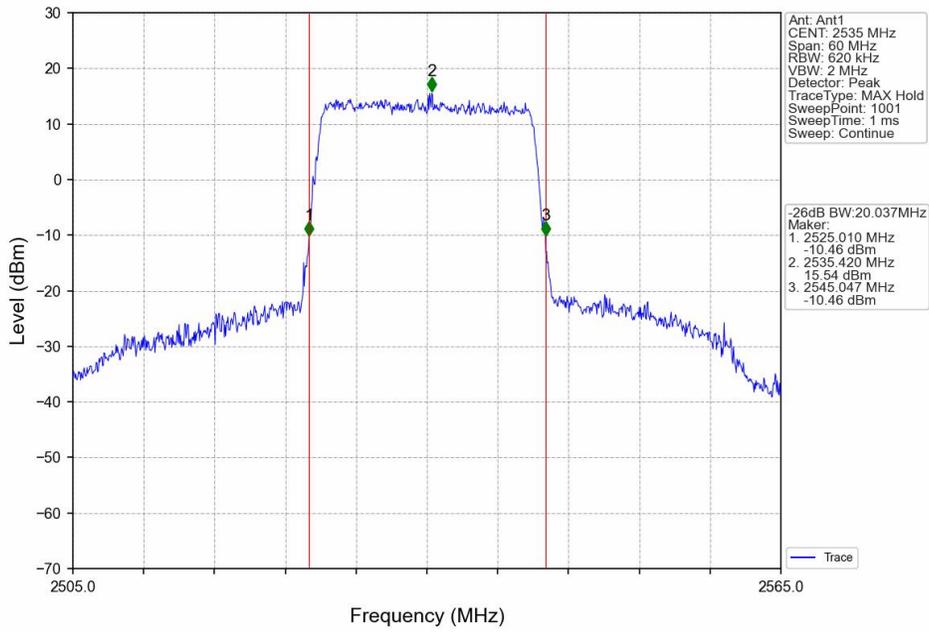
Band7 20MHz QPSK HCH 2560MHz RB 100 0 NTNV



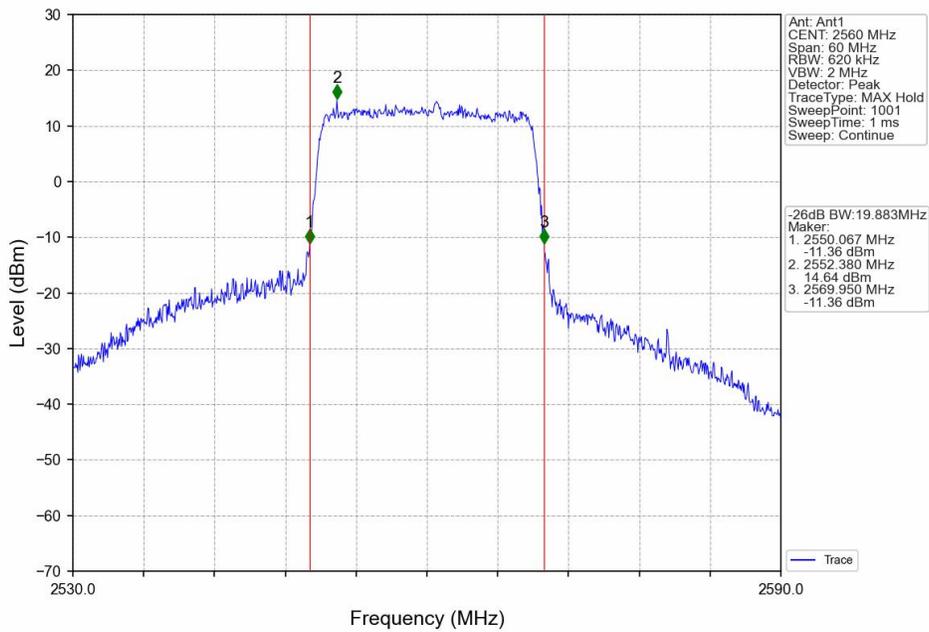
Band7 20MHz 16QAM LCH 2510MHz RB 100 0 NTNV



Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTN



Band7 20MHz 16QAM HCH 2560MHz RB 100 0 NTN



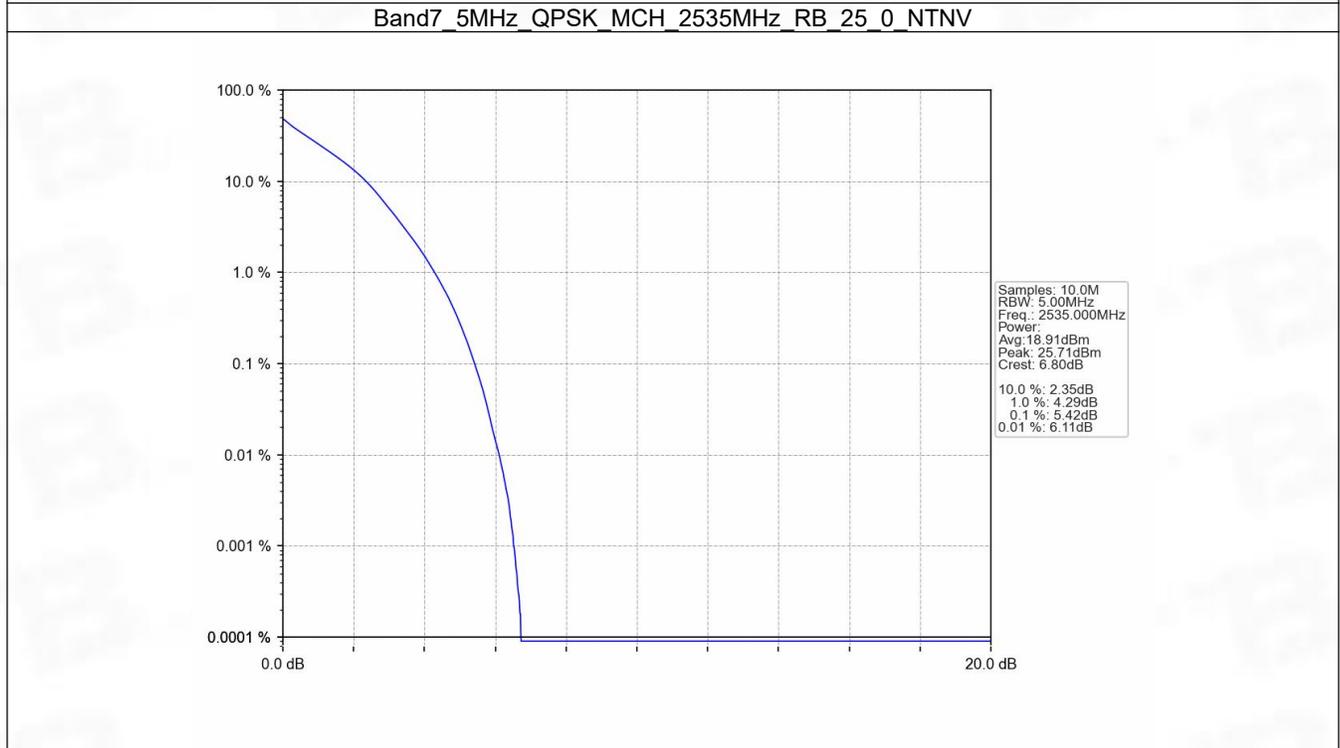
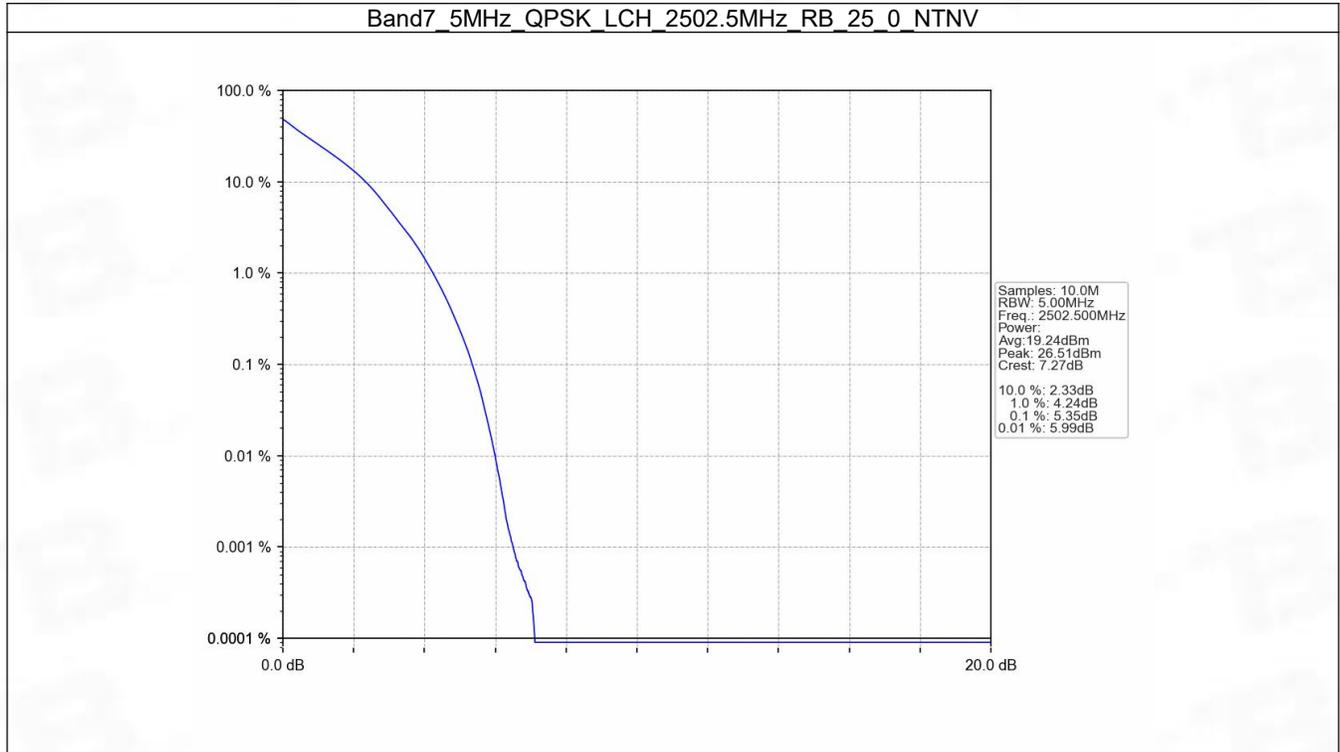
5. Peak-Average Ratio

5.1 B7_5MHz

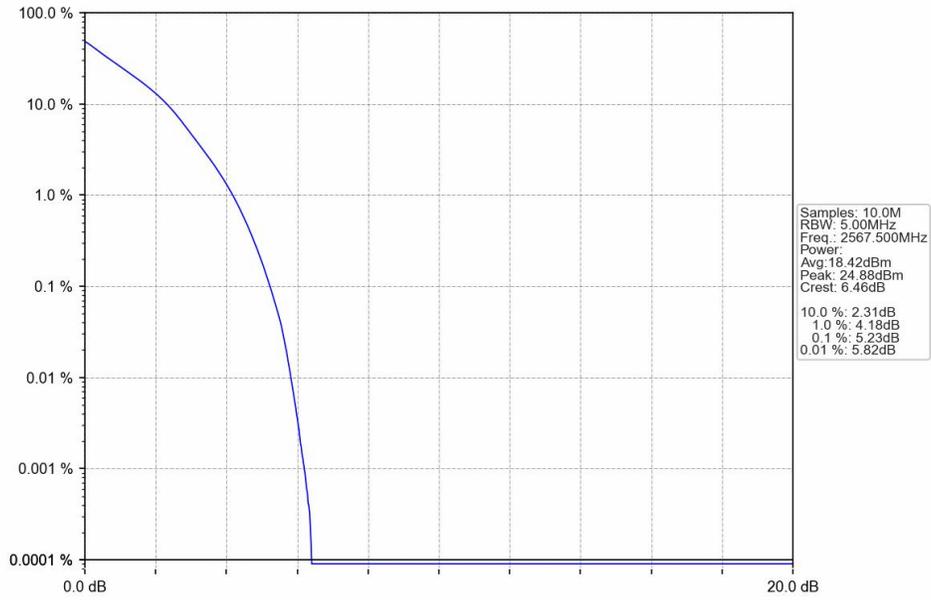
5.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	25	0	5.35	<=13	Pass
	2535	25	0	5.42	<=13	Pass
	2567.5	25	0	5.23	<=13	Pass
16QAM	2502.5	25	0	6.03	<=13	Pass
	2535	25	0	6.10	<=13	Pass
	2567.5	25	0	5.98	<=13	Pass

5.1.2 Test Graph



Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV

