

1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1710.7	1	0	21.70	-1.40	20.30	<=30	Pass		
			2	21.77	-1.40	20.37	<=30	Pass		
			5	21.70	-1.40	20.30	<=30	Pass		
		3	0	21.71	-1.40	20.31	<=30	Pass		
			2	21.73	-1.40	20.33	<=30	Pass		
			3	21.72	-1.40	20.32	<=30	Pass		
		6	0	20.82	-1.40	19.42	<=30	Pass		
		1732.5	1	0	21.36	-1.40	19.96	<=30	Pass	
				2	21.39	-1.40	19.99	<=30	Pass	
	5			21.35	-1.40	19.95	<=30	Pass		
	3		0	21.47	-1.40	20.07	<=30	Pass		
			2	21.51	-1.40	20.11	<=30	Pass		
			3	21.52	-1.40	20.12	<=30	Pass		
	6	0	20.56	-1.40	19.16	<=30	Pass			
	1754.3	1	0	21.62	-1.40	20.22	<=30	Pass		
			2	21.66	-1.40	20.26	<=30	Pass		
			5	21.61	-1.40	20.21	<=30	Pass		
		3	0	21.71	-1.40	20.31	<=30	Pass		
			2	21.71	-1.40	20.31	<=30	Pass		
			3	21.71	-1.40	20.31	<=30	Pass		
		6	0	20.80	-1.40	19.40	<=30	Pass		
		16QAM	1710.7	1	0	20.60	-1.40	19.20	<=30	Pass
					2	20.66	-1.40	19.26	<=30	Pass
	5				20.64	-1.40	19.24	<=30	Pass	
3	0			20.71	-1.40	19.31	<=30	Pass		
	2			20.74	-1.40	19.34	<=30	Pass		
	3			20.73	-1.40	19.33	<=30	Pass		
6	0			19.73	-1.40	18.33	<=30	Pass		
1732.5	1			0	20.48	-1.40	19.08	<=30	Pass	
				2	20.58	-1.40	19.18	<=30	Pass	
			5	20.50	-1.40	19.10	<=30	Pass		
	3		0	20.48	-1.40	19.08	<=30	Pass		
			2	20.49	-1.40	19.09	<=30	Pass		
			3	20.50	-1.40	19.10	<=30	Pass		
6	0		19.58	-1.40	18.18	<=30	Pass			
1754.3	1		0	20.54	-1.40	19.14	<=30	Pass		
			2	20.58	-1.40	19.18	<=30	Pass		
			5	20.53	-1.40	19.13	<=30	Pass		
	3		0	20.82	-1.40	19.42	<=30	Pass		
			2	20.85	-1.40	19.45	<=30	Pass		
			3	20.84	-1.40	19.44	<=30	Pass		
	6		0	19.79	-1.40	18.39	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B4_3MHz_EIRP

1.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1711.5	1	0	21.59	-1.40	20.19	<=30	Pass		
			7	21.70	-1.40	20.30	<=30	Pass		
			14	21.56	-1.40	20.16	<=30	Pass		
		8	0	20.74	-1.40	19.34	<=30	Pass		
			4	20.78	-1.40	19.38	<=30	Pass		
			7	20.72	-1.40	19.32	<=30	Pass		
		15	0	20.65	-1.40	19.25	<=30	Pass		
		1732.5	1	0	21.26	-1.40	19.86	<=30	Pass	
				7	21.37	-1.40	19.97	<=30	Pass	
	14			21.29	-1.40	19.89	<=30	Pass		
	8		0	20.53	-1.40	19.13	<=30	Pass		
			4	20.54	-1.40	19.14	<=30	Pass		
			7	20.46	-1.40	19.06	<=30	Pass		
	15		0	20.44	-1.40	19.04	<=30	Pass		
	1753.5		1	0	21.54	-1.40	20.14	<=30	Pass	
				7	21.65	-1.40	20.25	<=30	Pass	
		14		21.55	-1.40	20.15	<=30	Pass		
		8	0	20.72	-1.40	19.32	<=30	Pass		
			4	20.78	-1.40	19.38	<=30	Pass		
			7	20.72	-1.40	19.32	<=30	Pass		
		15	0	20.67	-1.40	19.27	<=30	Pass		
		16QAM	1711.5	1	0	20.51	-1.40	19.11	<=30	Pass
					7	20.63	-1.40	19.23	<=30	Pass
	14				20.50	-1.40	19.10	<=30	Pass	
8	0			19.76	-1.40	18.36	<=30	Pass		
	4			19.80	-1.40	18.40	<=30	Pass		
	7			19.74	-1.40	18.34	<=30	Pass		
15	0			19.69	-1.40	18.29	<=30	Pass		
1732.5	1			0	20.40	-1.40	19.00	<=30	Pass	
				7	20.59	-1.40	19.19	<=30	Pass	
			14	20.47	-1.40	19.07	<=30	Pass		
	8		0	19.46	-1.40	18.06	<=30	Pass		
			4	19.55	-1.40	18.15	<=30	Pass		
			7	19.45	-1.40	18.05	<=30	Pass		
	15		0	19.45	-1.40	18.05	<=30	Pass		
	1753.5		1	0	21.00	-1.40	19.60	<=30	Pass	
				7	21.08	-1.40	19.68	<=30	Pass	
14				20.92	-1.40	19.52	<=30	Pass		
8			0	19.78	-1.40	18.38	<=30	Pass		
			4	19.86	-1.40	18.46	<=30	Pass		
			7	19.83	-1.40	18.43	<=30	Pass		
15			0	19.70	-1.40	18.30	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.3 B4_5MHz_EIRP

1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	21.83	-1.40	20.43	<=30	Pass
			13	21.87	-1.40	20.47	<=30	Pass
			24	21.74	-1.40	20.34	<=30	Pass

16QAM	1732.5	12	0	20.72	-1.40	19.32	<=30	Pass	
			6	20.81	-1.40	19.41	<=30	Pass	
			13	20.76	-1.40	19.36	<=30	Pass	
		25	0	20.72	-1.40	19.32	<=30	Pass	
			1	0	21.50	-1.40	20.10	<=30	Pass
				13	21.68	-1.40	20.28	<=30	Pass
		24		21.63	-1.40	20.23	<=30	Pass	
		12	0	20.56	-1.40	19.16	<=30	Pass	
			6	20.60	-1.40	19.20	<=30	Pass	
	13		20.59	-1.40	19.19	<=30	Pass		
	25	0	20.59	-1.40	19.19	<=30	Pass		
		1752.5	1	0	21.81	-1.40	20.41	<=30	Pass
				13	21.92	-1.40	20.52	<=30	Pass
	24			21.81	-1.40	20.41	<=30	Pass	
	12	0	20.80	-1.40	19.40	<=30	Pass		
		6	20.84	-1.40	19.44	<=30	Pass		
		13	20.82	-1.40	19.42	<=30	Pass		
	25	0	20.79	-1.40	19.39	<=30	Pass		
		1712.5	1	0	20.86	-1.40	19.46	<=30	Pass
				13	20.92	-1.40	19.52	<=30	Pass
	24			20.77	-1.40	19.37	<=30	Pass	
	12	0	19.67	-1.40	18.27	<=30	Pass		
		6	19.76	-1.40	18.36	<=30	Pass		
		13	19.73	-1.40	18.33	<=30	Pass		
25	0	19.76	-1.40	18.36	<=30	Pass			
	1732.5	1	0	20.79	-1.40	19.39	<=30	Pass	
			13	20.94	-1.40	19.54	<=30	Pass	
24			20.88	-1.40	19.48	<=30	Pass		
12	0	19.58	-1.40	18.18	<=30	Pass			
	6	19.65	-1.40	18.25	<=30	Pass			
	13	19.64	-1.40	18.24	<=30	Pass			
25	0	19.61	-1.40	18.21	<=30	Pass			
	1752.5	1	0	20.62	-1.40	19.22	<=30	Pass	
			13	20.70	-1.40	19.30	<=30	Pass	
24			20.61	-1.40	19.21	<=30	Pass		
12	0	19.71	-1.40	18.31	<=30	Pass			
	6	19.84	-1.40	18.44	<=30	Pass			
	13	19.78	-1.40	18.38	<=30	Pass			
25	0	19.85	-1.40	18.45	<=30	Pass			

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B4_10MHz_EIRP

1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	21.96	-1.40	20.56	<=30	Pass
			25	21.86	-1.40	20.46	<=30	Pass
			49	21.69	-1.40	20.29	<=30	Pass
		25	0	20.67	-1.40	19.27	<=30	Pass
			13	20.78	-1.40	19.38	<=30	Pass
			25	20.71	-1.40	19.31	<=30	Pass
	50	0	20.68	-1.40	19.28	<=30	Pass	
	1732.5	1	0	21.51	-1.40	20.11	<=30	Pass
			25	21.69	-1.40	20.29	<=30	Pass

16QAM	1750	25	49	21.77	-1.40	20.37	<=30	Pass	
			0	20.54	-1.40	19.14	<=30	Pass	
			13	20.63	-1.40	19.23	<=30	Pass	
		50	25	20.67	-1.40	19.27	<=30	Pass	
			0	20.64	-1.40	19.24	<=30	Pass	
			1	0	21.90	-1.40	20.50	<=30	Pass
	1715	1	25	21.94	-1.40	20.54	<=30	Pass	
			49	21.92	-1.40	20.52	<=30	Pass	
			0	20.81	-1.40	19.41	<=30	Pass	
		25	13	20.91	-1.40	19.51	<=30	Pass	
			25	20.90	-1.40	19.50	<=30	Pass	
			0	20.86	-1.40	19.46	<=30	Pass	
	1732.5	1	0	20.90	-1.40	19.50	<=30	Pass	
			25	20.81	-1.40	19.41	<=30	Pass	
			49	20.66	-1.40	19.26	<=30	Pass	
			25	0	19.75	-1.40	18.35	<=30	Pass
				13	19.88	-1.40	18.48	<=30	Pass
				25	19.78	-1.40	18.38	<=30	Pass
		50	0	19.72	-1.40	18.32	<=30	Pass	
			1	0	20.75	-1.40	19.35	<=30	Pass
				25	20.85	-1.40	19.45	<=30	Pass
				49	20.95	-1.40	19.55	<=30	Pass
			25	0	19.62	-1.40	18.22	<=30	Pass
				13	19.72	-1.40	18.32	<=30	Pass
25	19.72	-1.40		18.32	<=30	Pass			
1750	1	0	19.63	-1.40	18.23	<=30	Pass		
		0	21.42	-1.40	20.02	<=30	Pass		
		25	21.42	-1.40	20.02	<=30	Pass		
	25	49	21.30	-1.40	19.90	<=30	Pass		
		0	19.86	-1.40	18.46	<=30	Pass		
		13	19.96	-1.40	18.56	<=30	Pass		
	50	25	19.90	-1.40	18.50	<=30	Pass		
		0	19.87	-1.40	18.47	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.5 B4_15MHz_EIRP

1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNv									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1717.5	1	0	21.89	-1.40	20.49	<=30	Pass	
			38	21.77	-1.40	20.37	<=30	Pass	
			74	21.50	-1.40	20.10	<=30	Pass	
		36	0	20.78	-1.40	19.38	<=30	Pass	
			18	20.77	-1.40	19.37	<=30	Pass	
			39	20.64	-1.40	19.24	<=30	Pass	
		75	0	20.74	-1.40	19.34	<=30	Pass	
			1	0	21.51	-1.40	20.11	<=30	Pass
				38	21.71	-1.40	20.31	<=30	Pass
	74	21.80		-1.40	20.40	<=30	Pass		
	1732.5	36	0	20.54	-1.40	19.14	<=30	Pass	
			18	20.67	-1.40	19.27	<=30	Pass	
			39	20.74	-1.40	19.34	<=30	Pass	
		75	0	20.68	-1.40	19.28	<=30	Pass	
			1	0	21.78	-1.40	20.38	<=30	Pass

16QAM	1717.5	36	38	21.96	-1.40	20.56	<=30	Pass	
			74	21.87	-1.40	20.47	<=30	Pass	
			0	20.84	-1.40	19.44	<=30	Pass	
		75	18	20.96	-1.40	19.56	<=30	Pass	
			39	20.98	-1.40	19.58	<=30	Pass	
			0	20.95	-1.40	19.55	<=30	Pass	
	1732.5	1	0	21.11	-1.40	19.71	<=30	Pass	
			38	21.06	-1.40	19.66	<=30	Pass	
			74	20.87	-1.40	19.47	<=30	Pass	
		36	0	19.71	-1.40	18.31	<=30	Pass	
			18	19.71	-1.40	18.31	<=30	Pass	
			39	19.58	-1.40	18.18	<=30	Pass	
		75	0	19.66	-1.40	18.26	<=30	Pass	
			1	0	20.69	-1.40	19.29	<=30	Pass
				38	20.87	-1.40	19.47	<=30	Pass
74		20.90		-1.40	19.50	<=30	Pass		
36		0	19.62	-1.40	18.22	<=30	Pass		
		18	19.72	-1.40	18.32	<=30	Pass		
	39	19.78	-1.40	18.38	<=30	Pass			
75	0	19.69	-1.40	18.29	<=30	Pass			
	1	0	21.36	-1.40	19.96	<=30	Pass		
		38	21.46	-1.40	20.06	<=30	Pass		
74		21.27	-1.40	19.87	<=30	Pass			
36	0	19.86	-1.40	18.46	<=30	Pass			
	18	19.96	-1.40	18.56	<=30	Pass			
	39	19.95	-1.40	18.55	<=30	Pass			
75	0	19.93	-1.40	18.53	<=30	Pass			

Note1: EIRP=Conducted Power+Antenna Gain

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1720	1	0	21.78	-1.40	20.38	<=30	Pass	
			50	21.64	-1.40	20.24	<=30	Pass	
			99	21.49	-1.40	20.09	<=30	Pass	
		50	0	20.62	-1.40	19.22	<=30	Pass	
			25	20.69	-1.40	19.29	<=30	Pass	
			50	20.52	-1.40	19.12	<=30	Pass	
		100	0	20.57	-1.40	19.17	<=30	Pass	
		1732.5	1	0	21.43	-1.40	20.03	<=30	Pass
				50	21.73	-1.40	20.33	<=30	Pass
	99			21.81	-1.40	20.41	<=30	Pass	
	50		0	20.65	-1.40	19.25	<=30	Pass	
			25	20.72	-1.40	19.32	<=30	Pass	
			50	20.79	-1.40	19.39	<=30	Pass	
	100		0	20.69	-1.40	19.29	<=30	Pass	
	1745		1	0	21.61	-1.40	20.21	<=30	Pass
				50	21.99	-1.40	20.59	<=30	Pass
		99		21.82	-1.40	20.42	<=30	Pass	
		50	0	20.74	-1.40	19.34	<=30	Pass	
			25	20.97	-1.40	19.57	<=30	Pass	
			50	20.96	-1.40	19.56	<=30	Pass	
	100	0	20.86	-1.40	19.46	<=30	Pass		

16QAM	1720	1	0	21.23	-1.40	19.83	<=30	Pass	
			50	21.19	-1.40	19.79	<=30	Pass	
			99	21.07	-1.40	19.67	<=30	Pass	
		50	0	19.61	-1.40	18.21	<=30	Pass	
			25	19.70	-1.40	18.30	<=30	Pass	
			50	19.52	-1.40	18.12	<=30	Pass	
		100	0	19.55	-1.40	18.15	<=30	Pass	
		1732.5	1	0	20.63	-1.40	19.23	<=30	Pass
				50	20.96	-1.40	19.56	<=30	Pass
	99			21.00	-1.40	19.60	<=30	Pass	
	50		0	19.62	-1.40	18.22	<=30	Pass	
			25	19.71	-1.40	18.31	<=30	Pass	
			50	19.80	-1.40	18.40	<=30	Pass	
	100		0	19.71	-1.40	18.31	<=30	Pass	
	1745		1	0	20.88	-1.40	19.48	<=30	Pass
				50	21.27	-1.40	19.87	<=30	Pass
		99		20.99	-1.40	19.59	<=30	Pass	
		50	0	19.76	-1.40	18.36	<=30	Pass	
			25	19.97	-1.40	18.57	<=30	Pass	
			50	19.97	-1.40	18.57	<=30	Pass	
		100	0	19.90	-1.40	18.50	<=30	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 B4_1.4MHz

2.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	1710.7	6	0	20	3.27	-1.416	-0.0008	-2.5 to 2.5	Pass	
					3.85	-4.148	-0.0024	-2.5 to 2.5	Pass	
					4.43	-1.616	-0.0009	-2.5 to 2.5	Pass	
				-30	3.85	-2.618	-0.0015	-2.5 to 2.5	Pass	
					-20	3.85	-4.692	-0.0027	-2.5 to 2.5	Pass
					-10	3.85	2.074	0.0012	-2.5 to 2.5	Pass
				0	3.85	-3.848	-0.0022	-2.5 to 2.5	Pass	
					10	3.85	-2.003	-0.0012	-2.5 to 2.5	Pass
					30	3.85	1.645	0.0010	-2.5 to 2.5	Pass
				40	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass	
					50	3.85	-1.745	-0.0010	-2.5 to 2.5	Pass
					20	3.27	-3.304	-0.0019	-2.5 to 2.5	Pass
	3.85	-5.050	-0.0029	-2.5 to 2.5		Pass				
	4.43	-5.679	-0.0033	-2.5 to 2.5		Pass				
	1732.5	6	0	-30	3.85	1.359	0.0008	-2.5 to 2.5	Pass	
					-20	3.85	1.802	0.0010	-2.5 to 2.5	Pass
					-10	3.85	0.601	0.0003	-2.5 to 2.5	Pass
				0	3.85	-4.506	-0.0026	-2.5 to 2.5	Pass	
					10	3.85	1.087	0.0006	-2.5 to 2.5	Pass
					30	3.85	2.246	0.0013	-2.5 to 2.5	Pass
				40	3.85	-2.518	-0.0015	-2.5 to 2.5	Pass	
					50	3.85	-4.048	-0.0023	-2.5 to 2.5	Pass
					20	3.27	-0.873	-0.0005	-2.5 to 2.5	Pass
	3.85	-3.190	-0.0018	-2.5 to 2.5		Pass				

					4.43	-6.208	-0.0035	-2.5 to 2.5	Pass					
				-30	3.85	-1.645	-0.0009	-2.5 to 2.5	Pass					
				-20	3.85	-4.578	-0.0026	-2.5 to 2.5	Pass					
				-10	3.85	-2.475	-0.0014	-2.5 to 2.5	Pass					
				0	3.85	-0.844	-0.0005	-2.5 to 2.5	Pass					
				10	3.85	-4.721	-0.0027	-2.5 to 2.5	Pass					
				30	3.85	2.131	0.0012	-2.5 to 2.5	Pass					
				40	3.85	-1.988	-0.0011	-2.5 to 2.5	Pass					
				50	3.85	0.629	0.0004	-2.5 to 2.5	Pass					
16QAM	1710.7	6	0	20	3.27	0.558	0.0003	-2.5 to 2.5	Pass					
					3.85	-0.129	-0.0001	-2.5 to 2.5	Pass					
					4.43	2.975	0.0017	-2.5 to 2.5	Pass					
				-30	3.85	-1.216	-0.0007	-2.5 to 2.5	Pass					
					-20	3.85	-1.717	-0.0010	-2.5 to 2.5	Pass				
						-10	3.85	-1.488	-0.0009	-2.5 to 2.5	Pass			
				1732.5	6	0	20	3.85	-2.847	-0.0017	-2.5 to 2.5	Pass		
								10	3.85	-1.960	-0.0011	-2.5 to 2.5	Pass	
								30	3.85	-3.419	-0.0020	-2.5 to 2.5	Pass	
	-30	40	3.85				-0.172	-0.0001	-2.5 to 2.5	Pass				
		-20	3.85				-1.574	-0.0009	-2.5 to 2.5	Pass				
			-10				3.85	-1.903	-0.0011	-2.5 to 2.5	Pass			
	1754.3	6	0				20	0	3.85	-1.173	-0.0007	-2.5 to 2.5	Pass	
								10	3.85	0.286	0.0002	-2.5 to 2.5	Pass	
								30	3.85	-0.930	-0.0005	-2.5 to 2.5	Pass	
				-30	40	3.85	3.333	0.0019	-2.5 to 2.5	Pass				
					-20	3.85	-1.044	-0.0006	-2.5 to 2.5	Pass				
						-10	3.85	0.229	0.0001	-2.5 to 2.5	Pass			
								20	3.85	2.847	0.0016	-2.5 to 2.5	Pass	
									10	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
									30	3.85	-3.319	-0.0019	-2.5 to 2.5	Pass
	-30	40	3.85					-1.287	-0.0007	-2.5 to 2.5	Pass			
		-20	3.85					-1.416	-0.0008	-2.5 to 2.5	Pass			
			-10					3.85	2.475	0.0014	-2.5 to 2.5	Pass		

2.2 B4_3MHz

2.2.1 Test Result

Band: 4 / Bandwidth: 3MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	1711.5	15	0	20	3.27	-6.351	-0.0037	-2.5 to 2.5	Pass	
					3.85	-1.431	-0.0008	-2.5 to 2.5	Pass	
					4.43	2.789	0.0016	-2.5 to 2.5	Pass	
				-30	3.85	1.073	0.0006	-2.5 to 2.5	Pass	
					-20	3.85	1.402	0.0008	-2.5 to 2.5	Pass
						-10	3.85	1.130	0.0007	-2.5 to 2.5
				0	3.85	2.475	0.0014	-2.5 to 2.5	Pass	

				10	3.85	-1.659	-0.0010	-2.5 to 2.5	Pass	
				30	3.85	-4.306	-0.0025	-2.5 to 2.5	Pass	
				40	3.85	-4.478	-0.0026	-2.5 to 2.5	Pass	
				50	3.85	0.601	0.0004	-2.5 to 2.5	Pass	
	1732.5	15	0	20	3.27	-4.177	-0.0024	-2.5 to 2.5	Pass	
					3.85	-1.845	-0.0011	-2.5 to 2.5	Pass	
					4.43	-0.472	-0.0003	-2.5 to 2.5	Pass	
				-30	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass	
				-20	3.85	-4.020	-0.0023	-2.5 to 2.5	Pass	
				-10	3.85	0.200	0.0001	-2.5 to 2.5	Pass	
				0	3.85	2.232	0.0013	-2.5 to 2.5	Pass	
				10	3.85	0.730	0.0004	-2.5 to 2.5	Pass	
				30	3.85	1.287	0.0007	-2.5 to 2.5	Pass	
				40	3.85	-1.345	-0.0008	-2.5 to 2.5	Pass	
				50	3.85	-6.824	-0.0039	-2.5 to 2.5	Pass	
				1753.5	15	0	20	3.27	-0.358	-0.0002
	3.85	-4.649	-0.0027					-2.5 to 2.5	Pass	
	4.43	-5.050	-0.0029					-2.5 to 2.5	Pass	
	-30	3.85	-1.574				-0.0009	-2.5 to 2.5	Pass	
	-20	3.85	-2.332				-0.0013	-2.5 to 2.5	Pass	
	-10	3.85	-0.558				-0.0003	-2.5 to 2.5	Pass	
	0	3.85	-3.648				-0.0021	-2.5 to 2.5	Pass	
	10	3.85	-2.661				-0.0015	-2.5 to 2.5	Pass	
	30	3.85	-6.294				-0.0036	-2.5 to 2.5	Pass	
	40	3.85	-1.316				-0.0008	-2.5 to 2.5	Pass	
	50	3.85	-1.602				-0.0009	-2.5 to 2.5	Pass	
	16QAM	1711.5	15				0	20	3.27	0.930
				3.85	1.216	0.0007			-2.5 to 2.5	Pass
				4.43	-1.187	-0.0007			-2.5 to 2.5	Pass
				-30	3.85	0.343		0.0002	-2.5 to 2.5	Pass
-20				3.85	-2.604	-0.0015		-2.5 to 2.5	Pass	
-10				3.85	-2.589	-0.0015		-2.5 to 2.5	Pass	
0				3.85	-2.174	-0.0013		-2.5 to 2.5	Pass	
10				3.85	-3.204	-0.0019		-2.5 to 2.5	Pass	
30				3.85	1.216	0.0007		-2.5 to 2.5	Pass	
40				3.85	-4.206	-0.0025		-2.5 to 2.5	Pass	
50				3.85	-4.306	-0.0025		-2.5 to 2.5	Pass	
1732.5				15	0	20		3.27	-2.604	-0.0015
		3.85	-0.873				-0.0005	-2.5 to 2.5	Pass	
		4.43	0.858				0.0005	-2.5 to 2.5	Pass	
		-30	3.85			0.443	0.0003	-2.5 to 2.5	Pass	
		-20	3.85			-4.749	-0.0027	-2.5 to 2.5	Pass	
		-10	3.85			1.202	0.0007	-2.5 to 2.5	Pass	
		0	3.85			-0.100	-0.0001	-2.5 to 2.5	Pass	
		10	3.85			2.275	0.0013	-2.5 to 2.5	Pass	
		30	3.85			-2.217	-0.0013	-2.5 to 2.5	Pass	
		40	3.85			-0.315	-0.0002	-2.5 to 2.5	Pass	
		50	3.85			0.000	0.0000	-2.5 to 2.5	Pass	
		1753.5	15			0	20	3.27	-4.363	-0.0025
3.85				-1.903	-0.0011			-2.5 to 2.5	Pass	
4.43				-5.107	-0.0029			-2.5 to 2.5	Pass	
-30				3.85	2.131		0.0012	-2.5 to 2.5	Pass	
-20				3.85	-2.761		-0.0016	-2.5 to 2.5	Pass	
-10				3.85	-3.390		-0.0019	-2.5 to 2.5	Pass	
0				3.85	-3.490		-0.0020	-2.5 to 2.5	Pass	
10				3.85	-7.038		-0.0040	-2.5 to 2.5	Pass	
30	3.85			-2.160	-0.0012		-2.5 to 2.5	Pass		
40	3.85			-5.393	-0.0031		-2.5 to 2.5	Pass		
50	3.85			-3.891	-0.0022		-2.5 to 2.5	Pass		

2.3 B4_5MHz

2.3.1 Test Result

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.27	-1.559	-0.0009	-2.5 to 2.5	Pass
					3.85	0.200	0.0001	-2.5 to 2.5	Pass
					4.43	-1.416	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-2.360	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-2.246	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	0.672	0.0004	-2.5 to 2.5	Pass
				0	3.85	-1.931	-0.0011	-2.5 to 2.5	Pass
				10	3.85	1.345	0.0008	-2.5 to 2.5	Pass
				30	3.85	2.561	0.0015	-2.5 to 2.5	Pass
				40	3.85	0.744	0.0004	-2.5 to 2.5	Pass
	50	3.85	2.389	0.0014	-2.5 to 2.5	Pass			
	1732.5	25	0	20	3.27	-5.836	-0.0034	-2.5 to 2.5	Pass
					3.85	-5.250	-0.0030	-2.5 to 2.5	Pass
					4.43	-5.865	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
				0	3.85	0.844	0.0005	-2.5 to 2.5	Pass
				10	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				30	3.85	-3.762	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
	50	3.85	-0.672	-0.0004	-2.5 to 2.5	Pass			
	1752.5	25	0	20	3.27	-0.458	-0.0003	-2.5 to 2.5	Pass
					3.85	-1.230	-0.0007	-2.5 to 2.5	Pass
					4.43	-0.701	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	1.416	0.0008	-2.5 to 2.5	Pass
				-20	3.85	1.674	0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.186	-0.0001	-2.5 to 2.5	Pass
				0	3.85	1.602	0.0009	-2.5 to 2.5	Pass
				10	3.85	1.302	0.0007	-2.5 to 2.5	Pass
30				3.85	0.172	0.0001	-2.5 to 2.5	Pass	
40				3.85	4.549	0.0026	-2.5 to 2.5	Pass	
50	3.85	1.502	0.0009	-2.5 to 2.5	Pass				
16QAM	1712.5	25	0	20	3.27	3.390	0.0020	-2.5 to 2.5	Pass
					3.85	2.432	0.0014	-2.5 to 2.5	Pass
					4.43	1.302	0.0008	-2.5 to 2.5	Pass
				-30	3.85	0.315	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-2.618	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-2.675	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-4.206	-0.0025	-2.5 to 2.5	Pass
				30	3.85	0.873	0.0005	-2.5 to 2.5	Pass
				40	3.85	-3.276	-0.0019	-2.5 to 2.5	Pass
	50	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass			
	1732.5	25	0	20	3.27	-0.429	-0.0002	-2.5 to 2.5	Pass
					3.85	4.263	0.0025	-2.5 to 2.5	Pass
					4.43	0.601	0.0003	-2.5 to 2.5	Pass
-30				3.85	-0.286	-0.0002	-2.5 to 2.5	Pass	
-20	3.85	-4.435	-0.0026	-2.5 to 2.5	Pass				

				-10	3.85	-2.203	-0.0013	-2.5 to 2.5	Pass
				0	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				10	3.85	-4.778	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-1.659	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-3.862	-0.0022	-2.5 to 2.5	Pass
	50	3.85	-1.259	-0.0007	-2.5 to 2.5	Pass			
	1752.5	25	0	20	3.27	-2.661	-0.0015	-2.5 to 2.5	Pass
					3.85	1.473	0.0008	-2.5 to 2.5	Pass
					4.43	-1.960	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	3.576	0.0020	-2.5 to 2.5	Pass
				-20	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				-10	3.85	1.245	0.0007	-2.5 to 2.5	Pass
				0	3.85	1.502	0.0009	-2.5 to 2.5	Pass
				10	3.85	1.974	0.0011	-2.5 to 2.5	Pass
				30	3.85	-0.472	-0.0003	-2.5 to 2.5	Pass
				40	3.85	1.044	0.0006	-2.5 to 2.5	Pass
				50	3.85	-1.659	-0.0009	-2.5 to 2.5	Pass

2.4 B4_10MHz

2.4.1 Test Result

Band: 4 / Bandwidth: 10MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	1715	50	0	20	3.27	0.114	0.0001	-2.5 to 2.5	Pass			
					3.85	-0.944	-0.0006	-2.5 to 2.5	Pass			
					4.43	2.089	0.0012	-2.5 to 2.5	Pass			
				-30	3.85	-1.273	-0.0007	-2.5 to 2.5	Pass			
				-20	3.85	0.615	0.0004	-2.5 to 2.5	Pass			
				-10	3.85	-1.001	-0.0006	-2.5 to 2.5	Pass			
				0	3.85	1.030	0.0006	-2.5 to 2.5	Pass			
				10	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass			
				30	3.85	0.057	0.0000	-2.5 to 2.5	Pass			
				40	3.85	0.758	0.0004	-2.5 to 2.5	Pass			
				50	3.85	-0.558	-0.0003	-2.5 to 2.5	Pass			
				1732.5	50	0	20	3.27	-3.004	-0.0017	-2.5 to 2.5	Pass
								3.85	-3.476	-0.0020	-2.5 to 2.5	Pass
								4.43	-3.033	-0.0018	-2.5 to 2.5	Pass
							-30	3.85	-1.044	-0.0006	-2.5 to 2.5	Pass
	-20	3.85	-0.272				-0.0002	-2.5 to 2.5	Pass			
	-10	3.85	-3.004				-0.0017	-2.5 to 2.5	Pass			
	0	3.85	-4.392				-0.0025	-2.5 to 2.5	Pass			
	10	3.85	-2.146				-0.0012	-2.5 to 2.5	Pass			
	30	3.85	-3.791				-0.0022	-2.5 to 2.5	Pass			
	40	3.85	-1.230				-0.0007	-2.5 to 2.5	Pass			
	50	3.85	-1.917				-0.0011	-2.5 to 2.5	Pass			
	1750	50	0				20	3.27	-1.173	-0.0007	-2.5 to 2.5	Pass
								3.85	-0.801	-0.0005	-2.5 to 2.5	Pass
								4.43	1.545	0.0009	-2.5 to 2.5	Pass
							-30	3.85	-1.087	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	0.143	0.0001	-2.5 to 2.5	Pass			
				-10	3.85	-1.559	-0.0009	-2.5 to 2.5	Pass			
				0	3.85	-2.446	-0.0014	-2.5 to 2.5	Pass			
				10	3.85	1.631	0.0009	-2.5 to 2.5	Pass			
30				3.85	-0.672	-0.0004	-2.5 to 2.5	Pass				
40				3.85	0.572	0.0003	-2.5 to 2.5	Pass				

				-20	3.85	-0.529	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	2.031	0.0012	-2.5 to 2.5	Pass
				0	3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-3.462	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-4.392	-0.0025	-2.5 to 2.5	Pass
	50	3.85	-3.748	-0.0022	-2.5 to 2.5	Pass			
	1747.5	75	0	20	3.27	3.147	0.0018	-2.5 to 2.5	Pass
					3.85	0.043	0.0000	-2.5 to 2.5	Pass
					4.43	-0.272	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.587	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	1.473	0.0008	-2.5 to 2.5	Pass
		0	3.85	-2.031	-0.0012	-2.5 to 2.5	Pass		
		10	3.85	-0.787	-0.0005	-2.5 to 2.5	Pass		
		30	3.85	-2.604	-0.0015	-2.5 to 2.5	Pass		
		40	3.85	-0.215	-0.0001	-2.5 to 2.5	Pass		
		50	3.85	-0.043	0.0000	-2.5 to 2.5	Pass		
16QAM		1717.5	75	0	20	3.27	-0.558	-0.0003	-2.5 to 2.5
	3.85					-0.043	0.0000	-2.5 to 2.5	Pass
	4.43					-2.718	-0.0016	-2.5 to 2.5	Pass
	-30				3.85	-0.787	-0.0005	-2.5 to 2.5	Pass
	-20				3.85	-1.845	-0.0011	-2.5 to 2.5	Pass
	-10				3.85	-1.774	-0.0010	-2.5 to 2.5	Pass
	0				3.85	-2.246	-0.0013	-2.5 to 2.5	Pass
	10				3.85	-1.101	-0.0006	-2.5 to 2.5	Pass
	30				3.85	-1.044	-0.0006	-2.5 to 2.5	Pass
	40	3.85	-1.302	-0.0008	-2.5 to 2.5	Pass			
	50	3.85	-2.389	-0.0014	-2.5 to 2.5	Pass			
	1732.5	75	0	20	3.27	-3.262	-0.0019	-2.5 to 2.5	Pass
					3.85	-2.074	-0.0012	-2.5 to 2.5	Pass
					4.43	-4.363	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-4.406	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-4.792	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-3.433	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-3.963	-0.0023	-2.5 to 2.5	Pass
10				3.85	-4.177	-0.0024	-2.5 to 2.5	Pass	
30				3.85	-5.035	-0.0029	-2.5 to 2.5	Pass	
40	3.85	-3.834	-0.0022	-2.5 to 2.5	Pass				
50	3.85	-4.964	-0.0029	-2.5 to 2.5	Pass				
1747.5	75	0	20	3.27	-2.646	-0.0015	-2.5 to 2.5	Pass	
				3.85	-1.259	-0.0007	-2.5 to 2.5	Pass	
				4.43	-0.272	-0.0002	-2.5 to 2.5	Pass	
			-30	3.85	-1.416	-0.0008	-2.5 to 2.5	Pass	
			-20	3.85	-1.330	-0.0008	-2.5 to 2.5	Pass	
			-10	3.85	-1.502	-0.0009	-2.5 to 2.5	Pass	
			0	3.85	-0.029	0.0000	-2.5 to 2.5	Pass	
			10	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass	
			30	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass	
40	3.85	-0.672	-0.0004	-2.5 to 2.5	Pass				
50	3.85	0.329	0.0002	-2.5 to 2.5	Pass				

2.6 B4_20MHz

2.6.1 Test Result

Band: 4 / Bandwidth: 20MHz

Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.27	-1.802	-0.0010	-2.5 to 2.5	Pass
					3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
					4.43	2.246	0.0013	-2.5 to 2.5	Pass
				-30	3.85	0.830	0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.358	0.0002	-2.5 to 2.5	Pass
				-10	3.85	1.059	0.0006	-2.5 to 2.5	Pass
				0	3.85	1.445	0.0008	-2.5 to 2.5	Pass
				10	3.85	0.458	0.0003	-2.5 to 2.5	Pass
				30	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-2.060	-0.0012	-2.5 to 2.5	Pass
	50	3.85	-1.817	-0.0011	-2.5 to 2.5	Pass			
	1732.5	100	0	20	3.27	-1.931	-0.0011	-2.5 to 2.5	Pass
					3.85	-3.219	-0.0019	-2.5 to 2.5	Pass
					4.43	-3.433	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	0.515	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-2.489	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.801	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-0.157	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-2.103	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass
	50	3.85	-2.918	-0.0017	-2.5 to 2.5	Pass			
	1745	100	0	20	3.27	1.888	0.0011	-2.5 to 2.5	Pass
					3.85	1.216	0.0007	-2.5 to 2.5	Pass
					4.43	-0.215	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.930	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.930	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.858	-0.0005	-2.5 to 2.5	Pass
				0	3.85	1.030	0.0006	-2.5 to 2.5	Pass
				10	3.85	2.346	0.0013	-2.5 to 2.5	Pass
30				3.85	0.758	0.0004	-2.5 to 2.5	Pass	
40				3.85	1.101	0.0006	-2.5 to 2.5	Pass	
50	3.85	-0.730	-0.0004	-2.5 to 2.5	Pass				
16QAM	1720	100	0	20	3.27	0.472	0.0003	-2.5 to 2.5	Pass
					3.85	-2.847	-0.0017	-2.5 to 2.5	Pass
					4.43	-2.360	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-1.473	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	0.715	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.758	0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.644	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-1.073	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-1.602	-0.0009	-2.5 to 2.5	Pass
				40	3.85	0.844	0.0005	-2.5 to 2.5	Pass
	50	3.85	-0.858	-0.0005	-2.5 to 2.5	Pass			
	1732.5	100	0	20	3.27	-2.089	-0.0012	-2.5 to 2.5	Pass
					3.85	-4.992	-0.0029	-2.5 to 2.5	Pass
					4.43	-5.622	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-4.978	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-3.963	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-3.533	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-5.078	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-1.001	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-2.389	-0.0014	-2.5 to 2.5	Pass
	50	3.85	-2.217	-0.0013	-2.5 to 2.5	Pass			
	1745	100	0	20	3.27	-1.302	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.315	-0.0002	-2.5 to 2.5	Pass

					4.43	-0.486	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.186	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-1.173	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-2.446	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.958	-0.0005	-2.5 to 2.5	Pass
				10	3.85	1.802	0.0010	-2.5 to 2.5	Pass
				30	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				40	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-1.516	-0.0009	-2.5 to 2.5	Pass

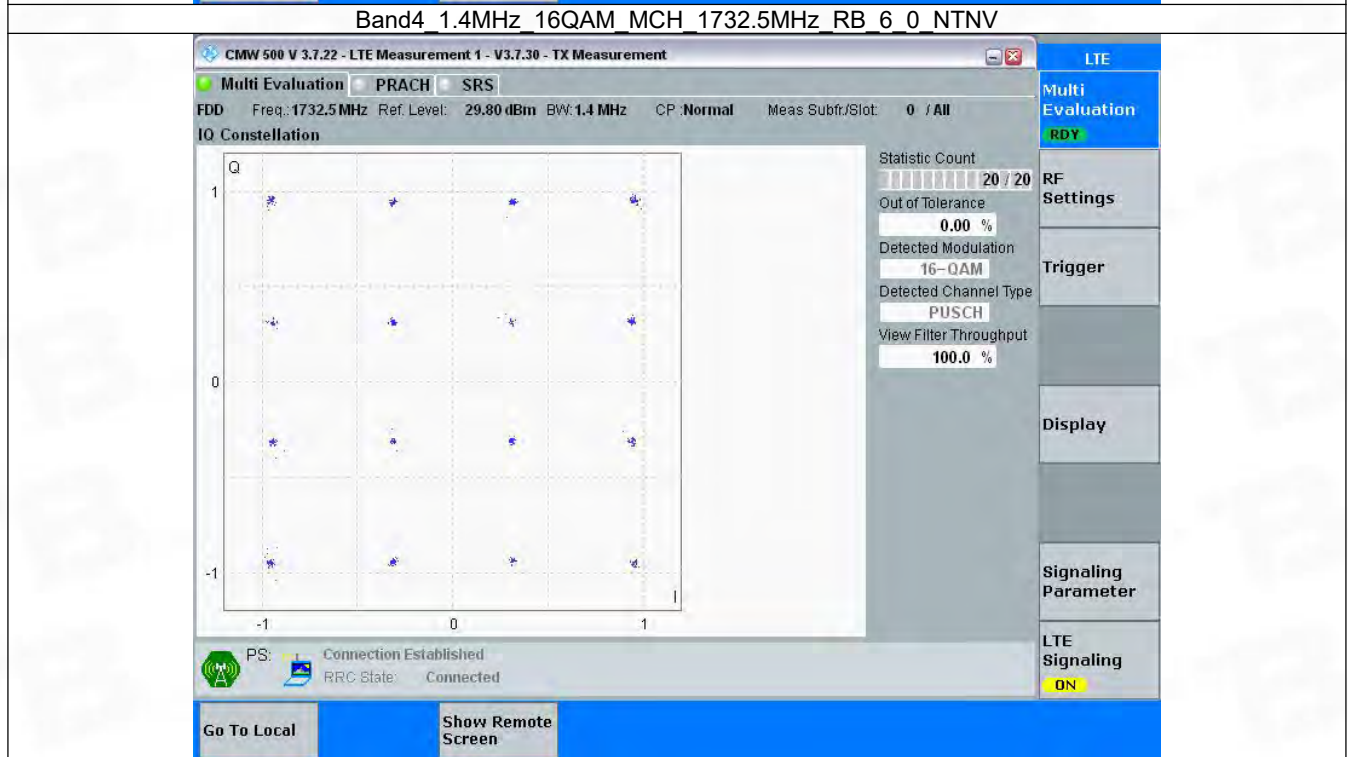
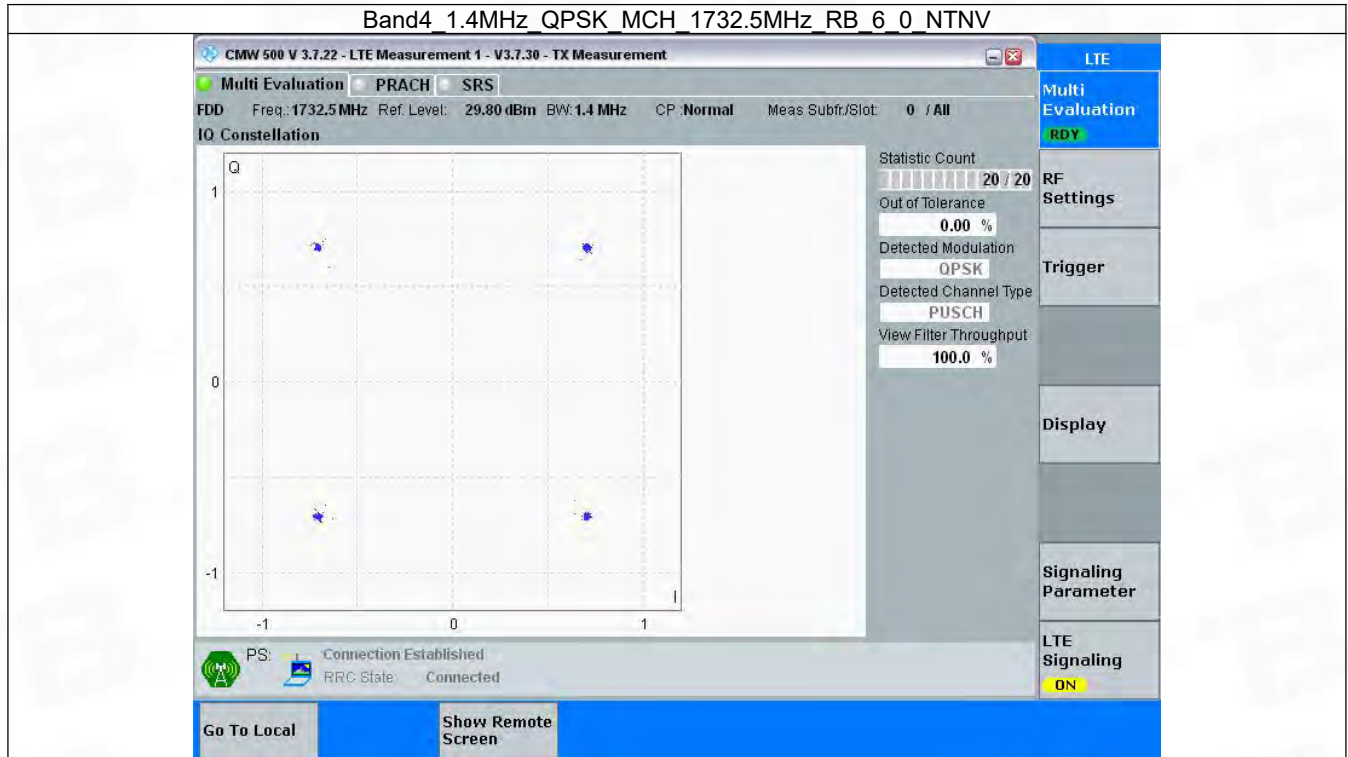
3. Modulation Characteristics

3.1 B4_1.4MHz

3.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

3.1.2 Test Graph

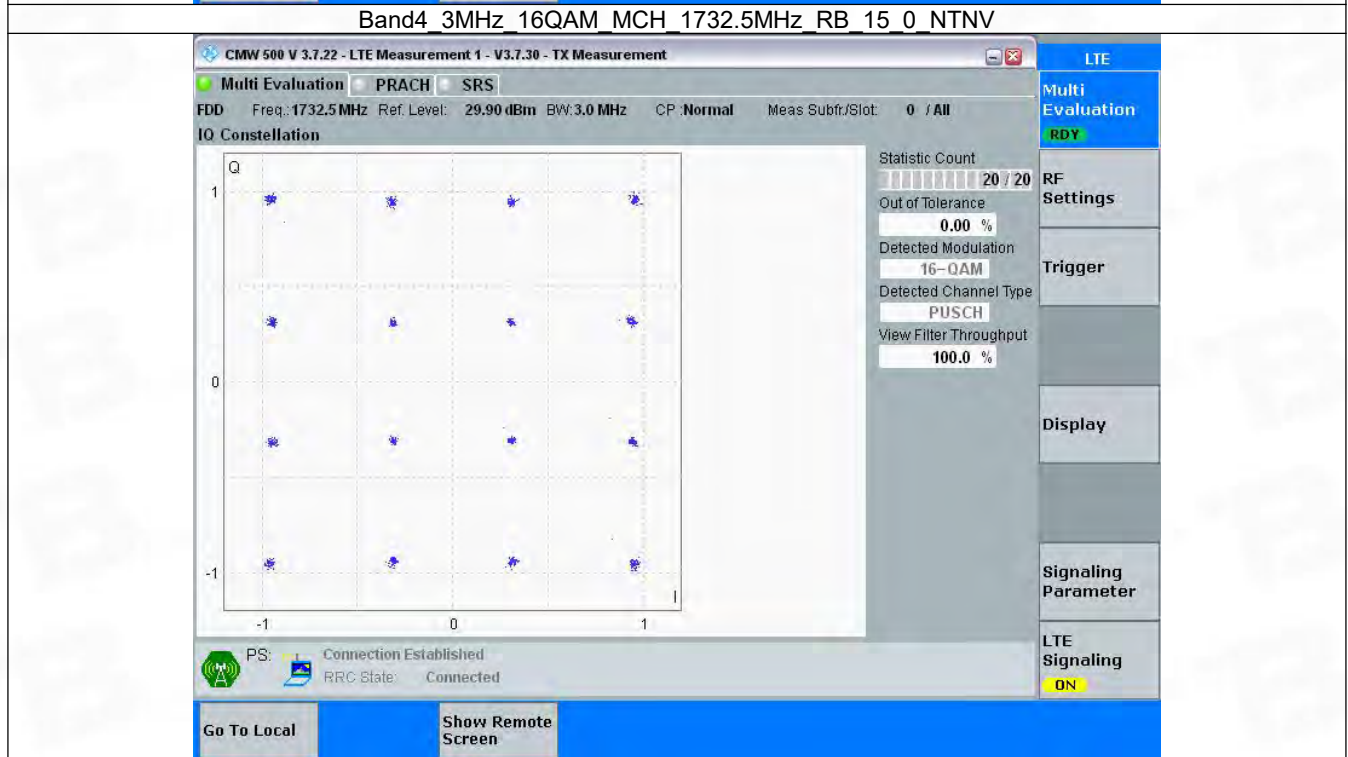
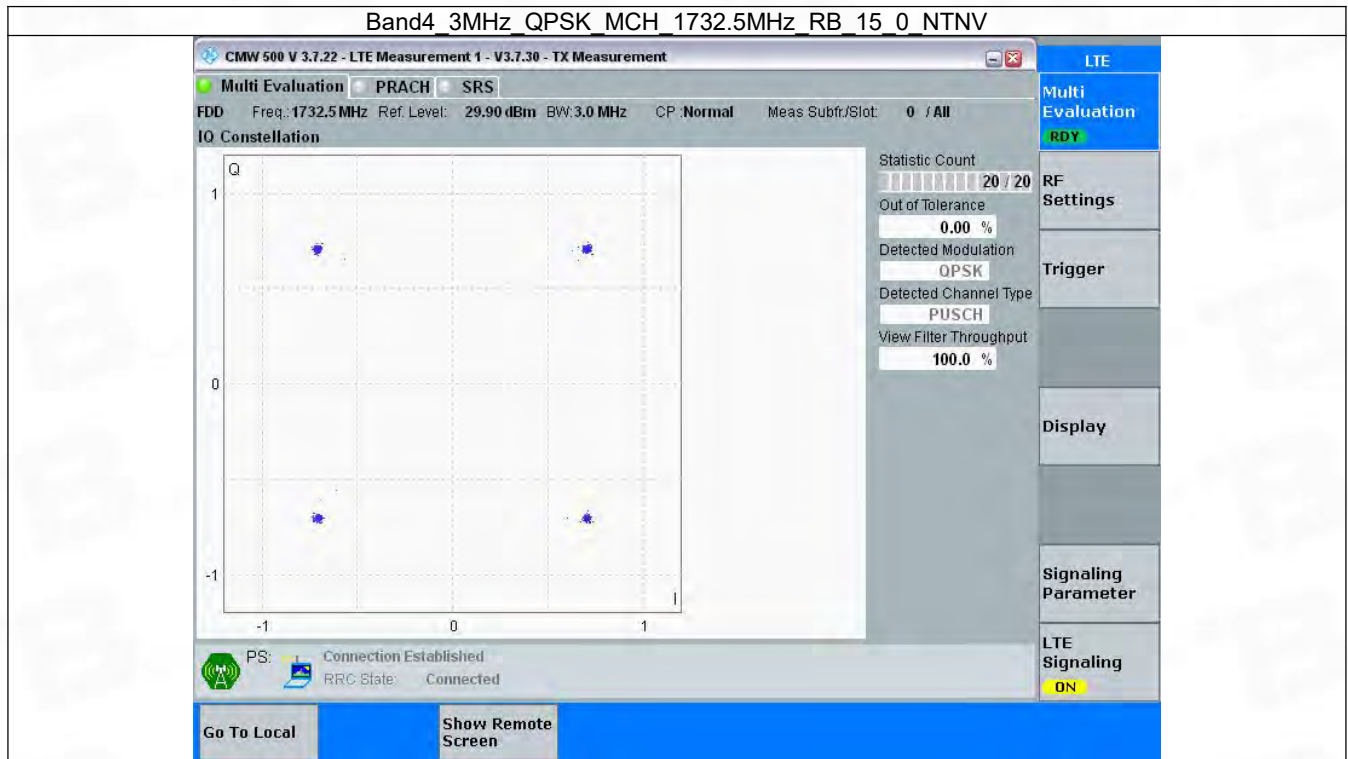


3.2 B4_3MHz

3.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph

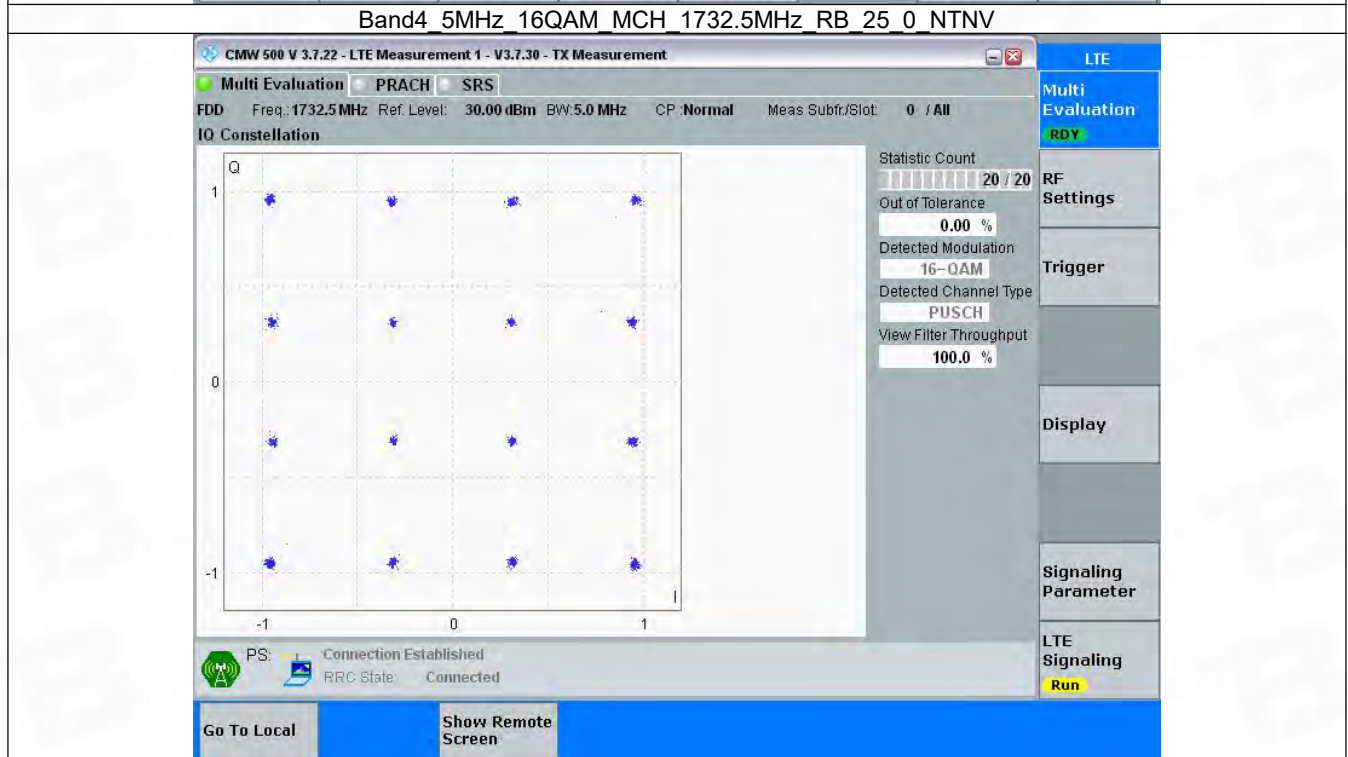
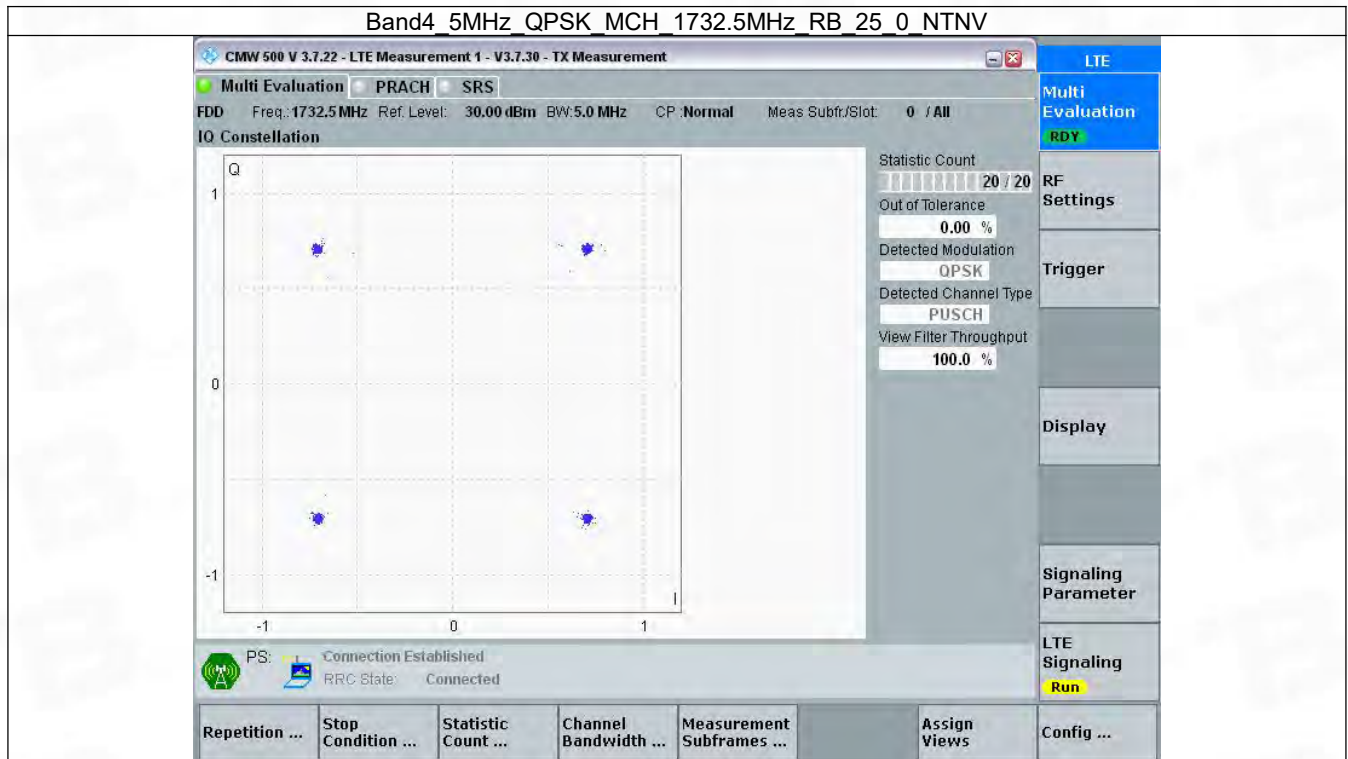


3.3 B4_5MHz

3.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

3.3.2 Test Graph

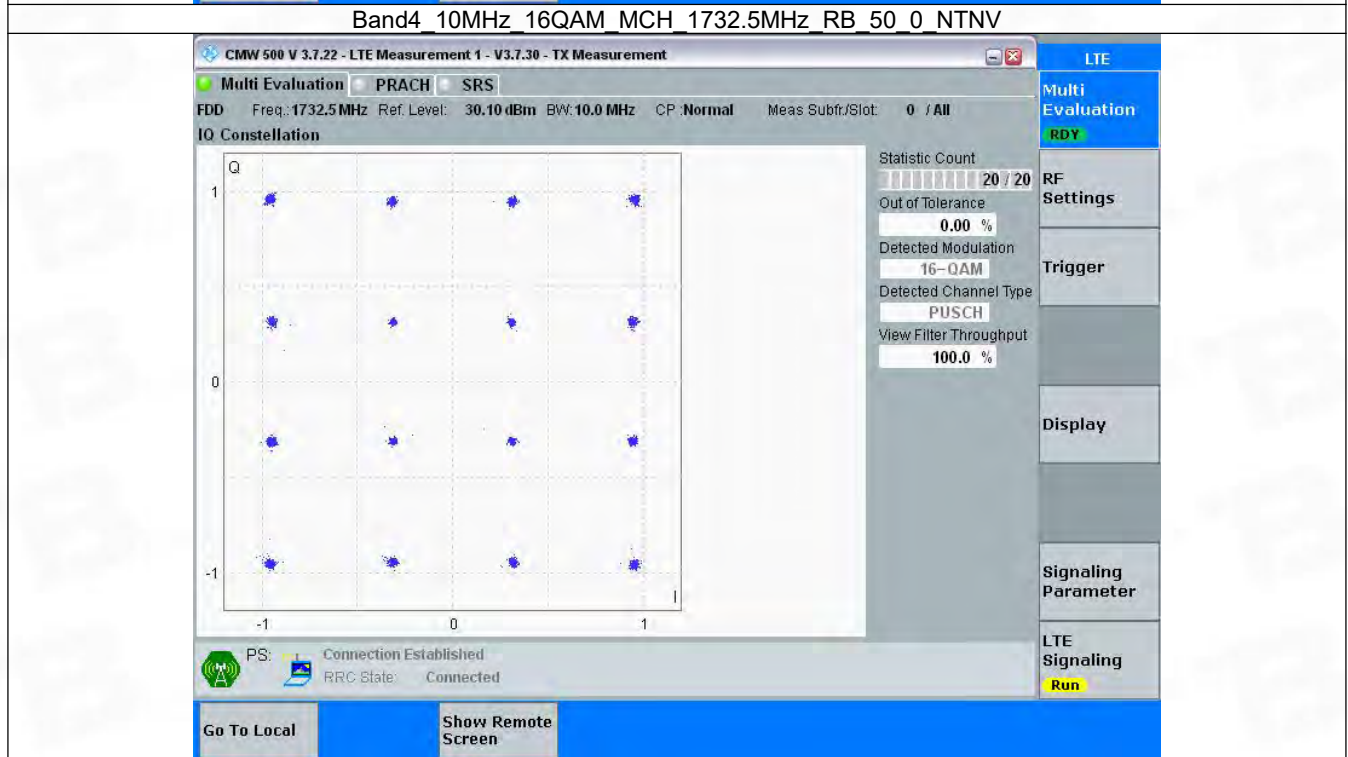
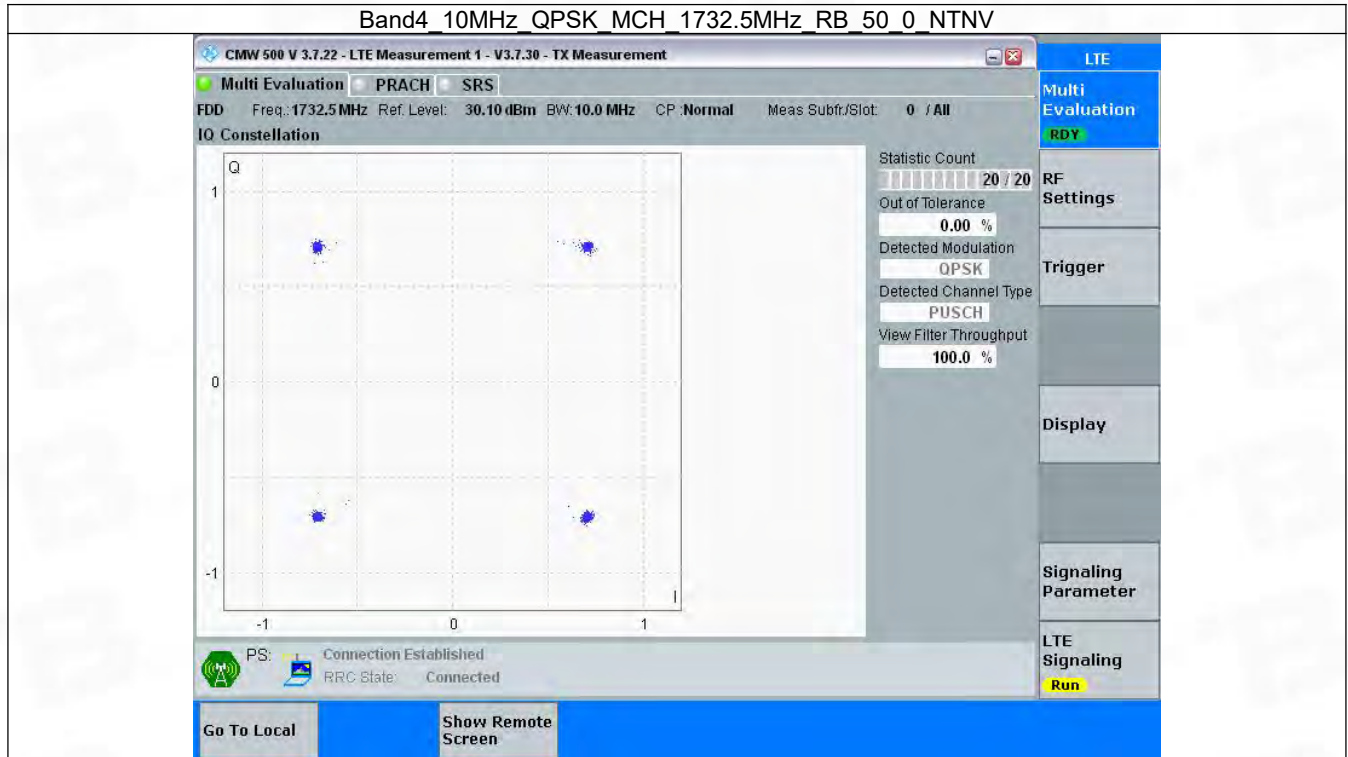


3.4 B4_10MHz

3.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

3.4.2 Test Graph

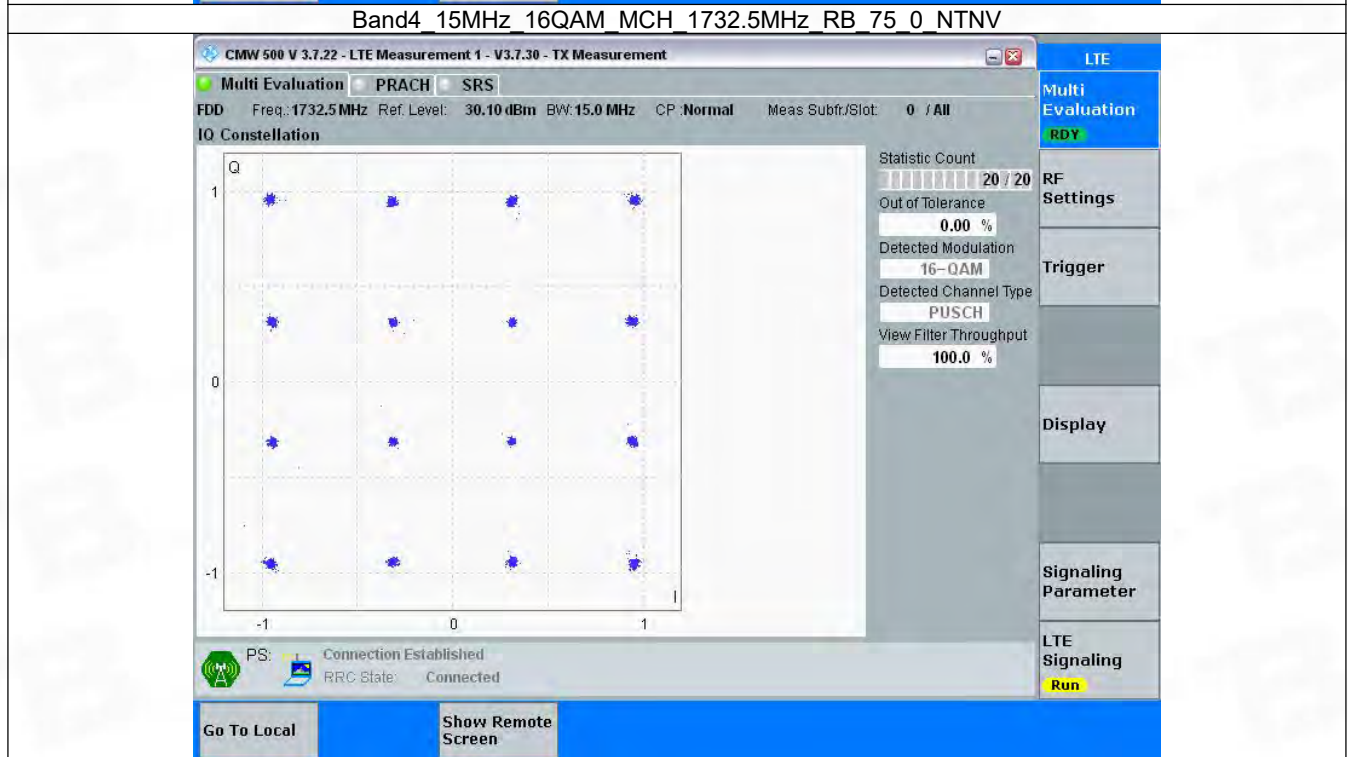
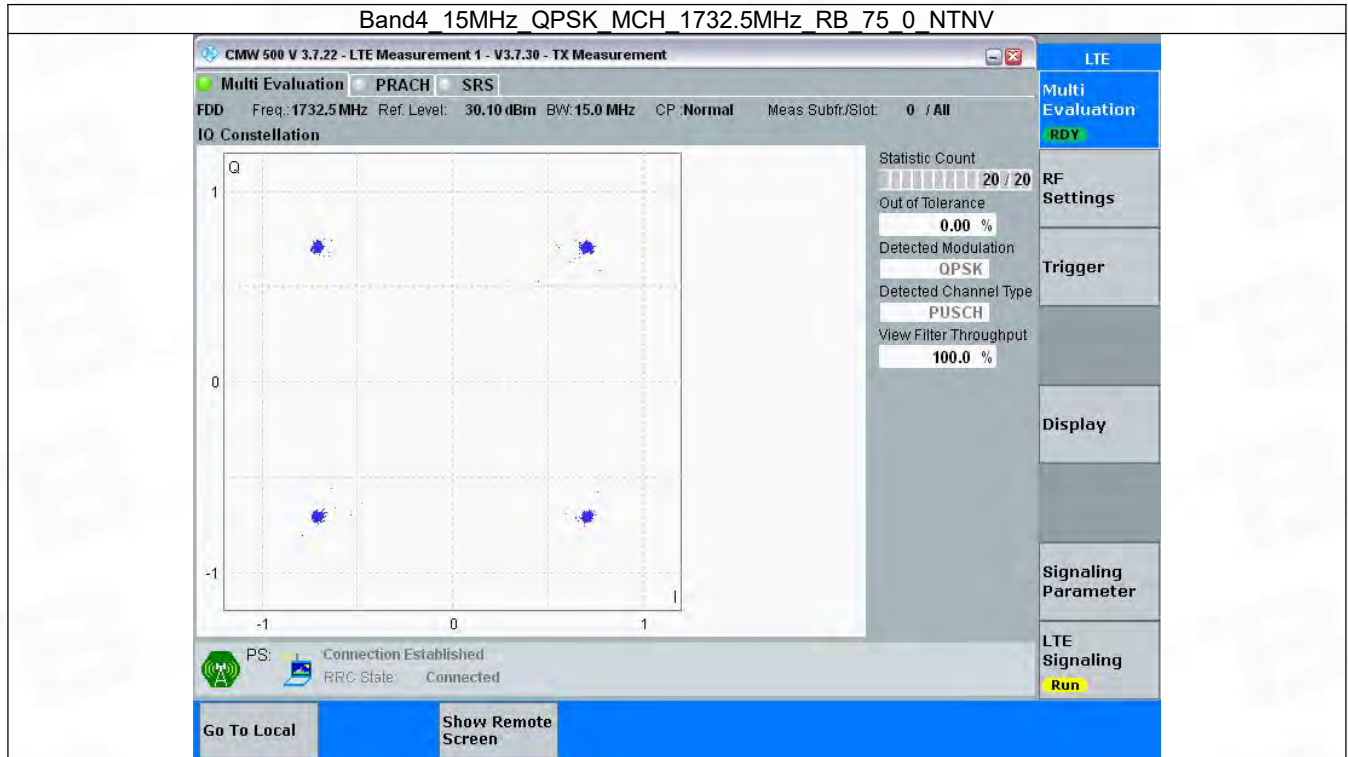


3.5 B4_15MHz

3.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.5.2 Test Graph

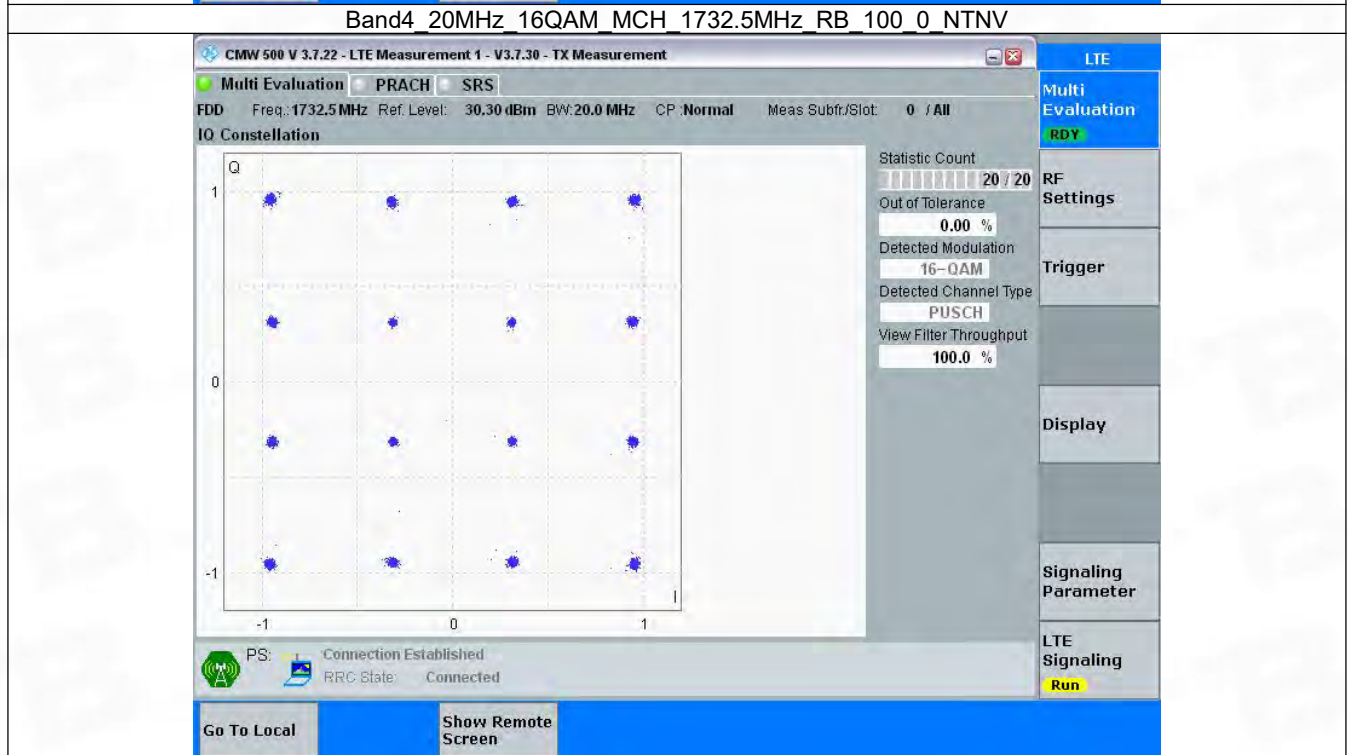
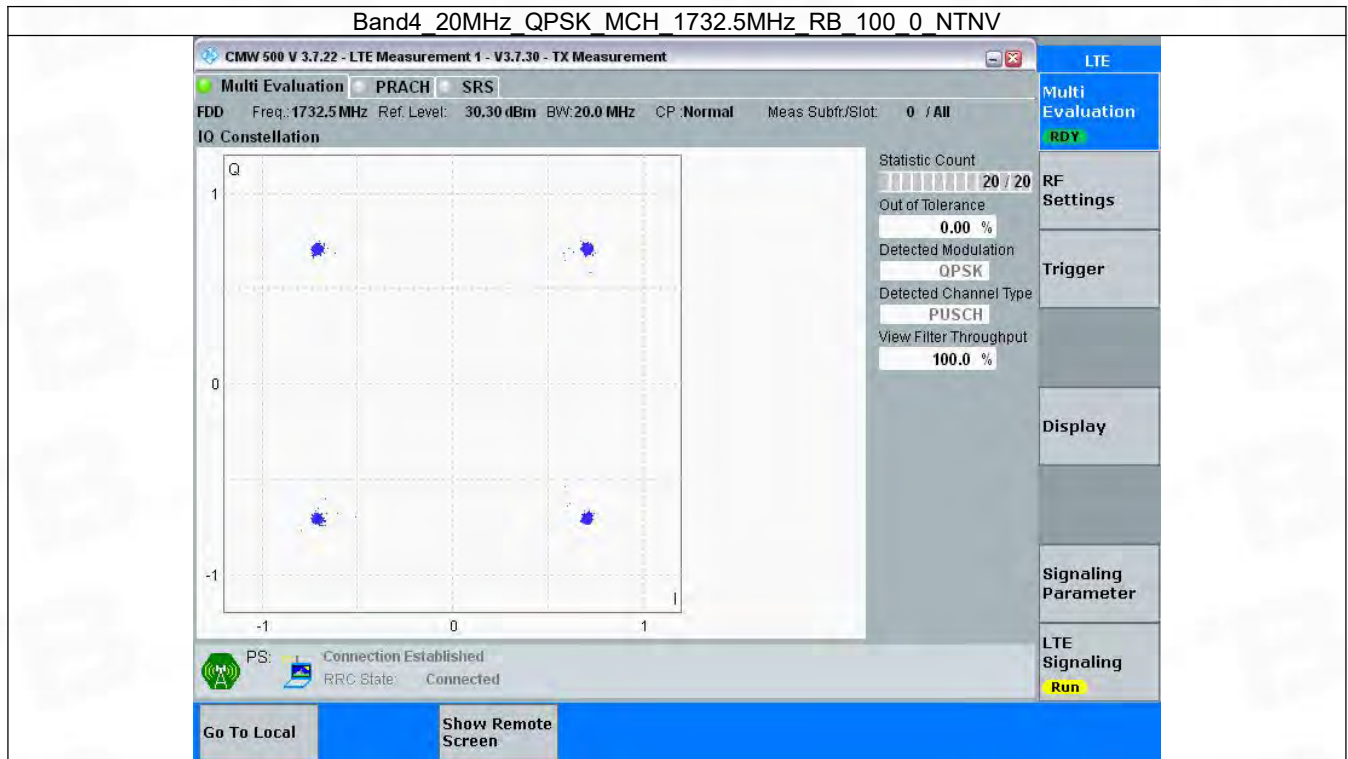


3.6 B4_20MHz

3.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.6.2 Test Graph



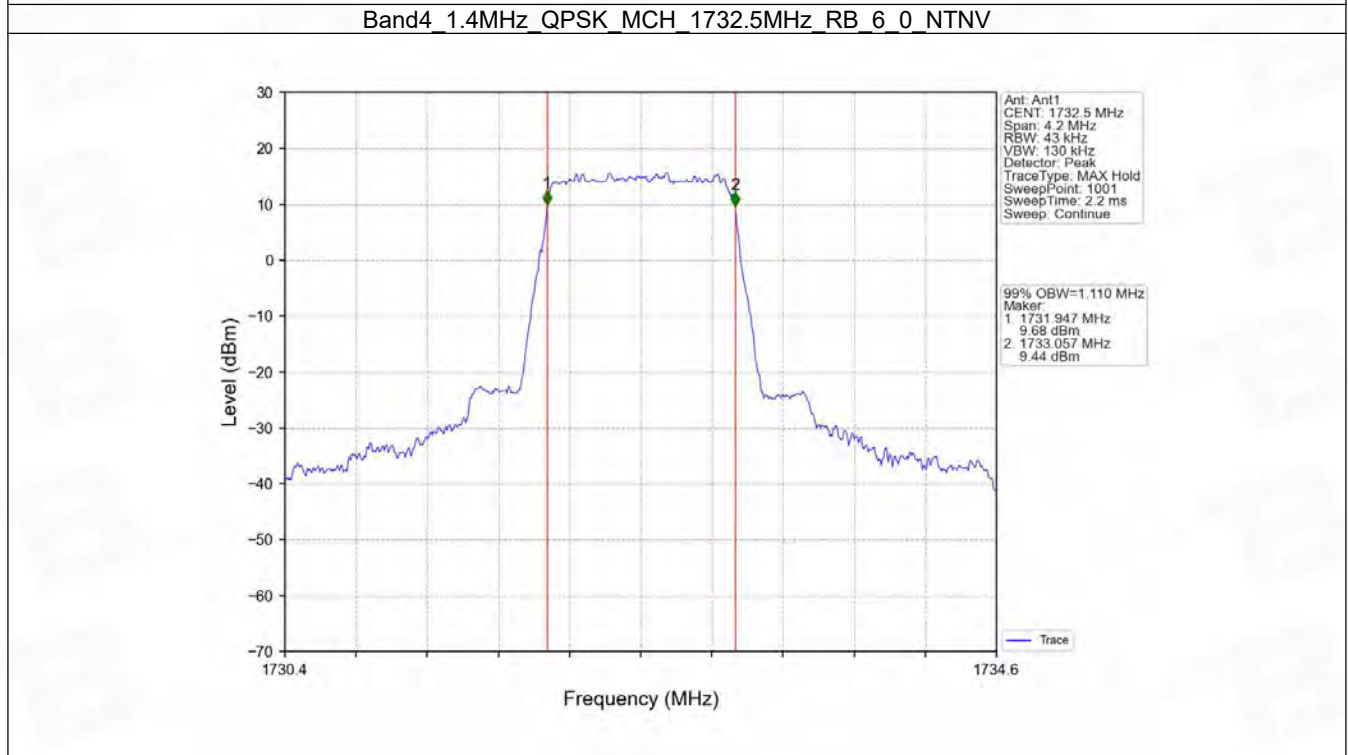
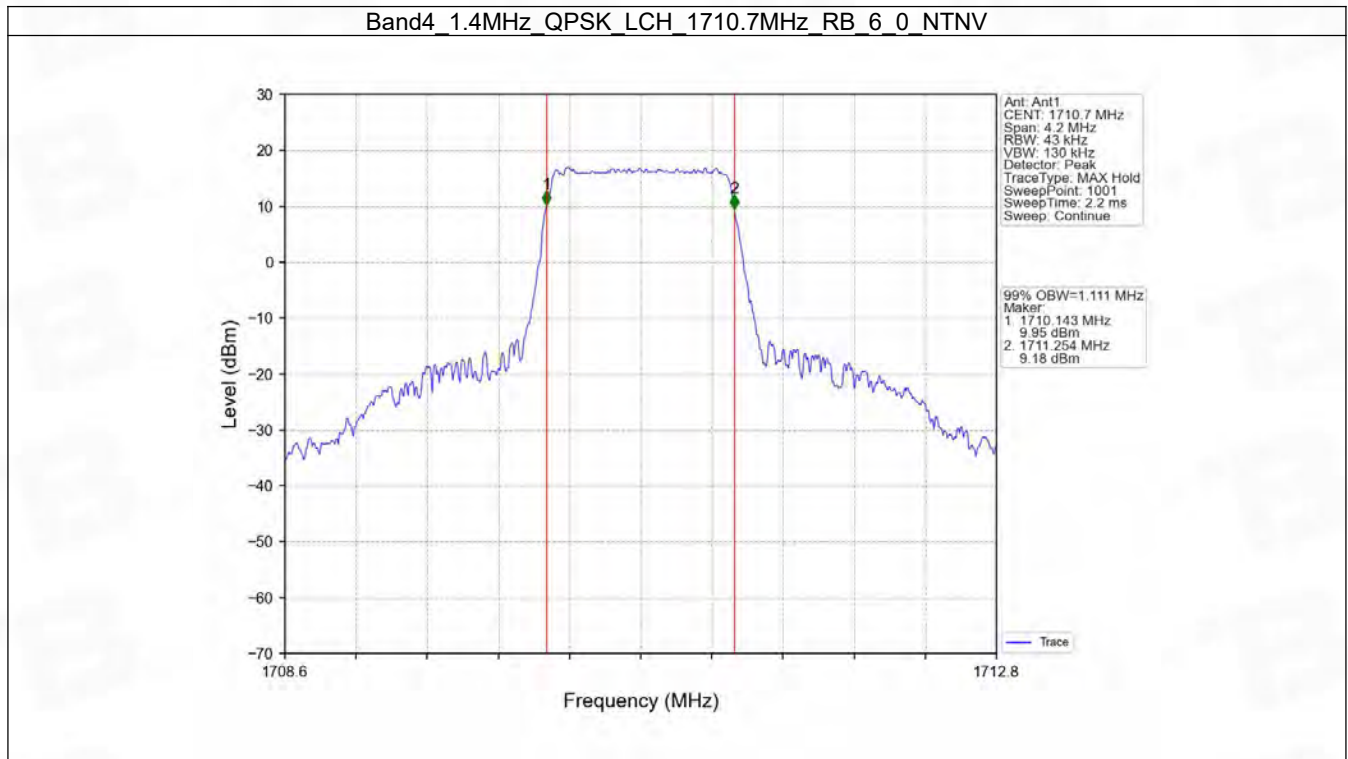
4. 99% & 26dB Bandwidth

4.1 Band4_OBW

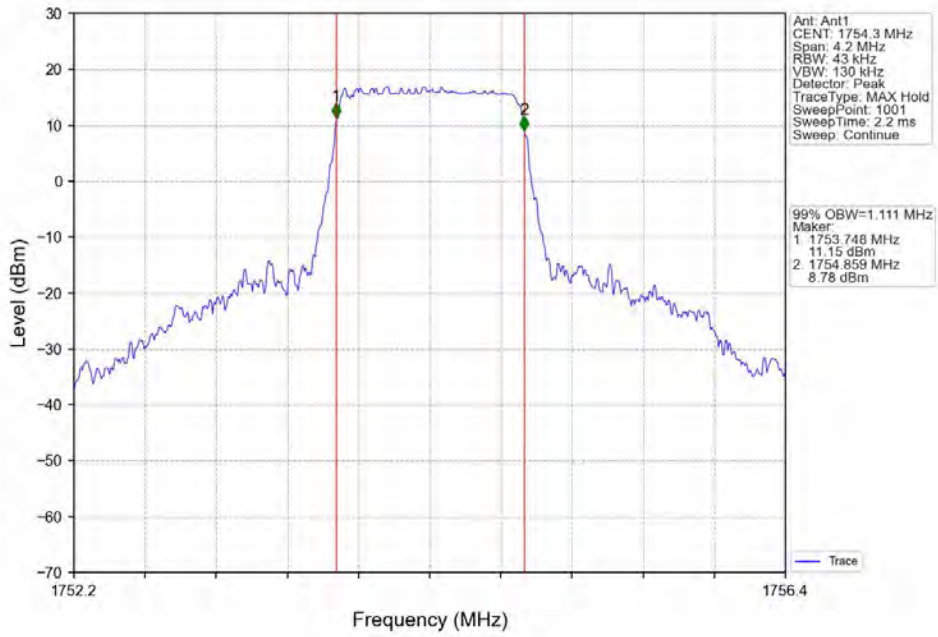
4.1.1 Test Result

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.111	/	Pass
		1732.5	6	0	1.110	/	Pass
		1754.3	6	0	1.111	/	Pass
	16QAM	1710.7	6	0	1.115	/	Pass
		1732.5	6	0	1.111	/	Pass
		1754.3	6	0	1.113	/	Pass
3	QPSK	1711.5	15	0	2.732	/	Pass
		1732.5	15	0	2.721	/	Pass
		1753.5	15	0	2.730	/	Pass
	16QAM	1711.5	15	0	2.718	/	Pass
		1732.5	15	0	2.727	/	Pass
		1753.5	15	0	2.730	/	Pass
5	QPSK	1712.5	25	0	4.537	/	Pass
		1732.5	25	0	4.542	/	Pass
		1752.5	25	0	4.553	/	Pass
	16QAM	1712.5	25	0	4.555	/	Pass
		1732.5	25	0	4.558	/	Pass
		1752.5	25	0	4.532	/	Pass
10	QPSK	1715	50	0	9.062	/	Pass
		1732.5	50	0	9.038	/	Pass
		1750	50	0	9.041	/	Pass
	16QAM	1715	50	0	9.026	/	Pass
		1732.5	50	0	9.031	/	Pass
		1750	50	0	9.030	/	Pass
15	QPSK	1717.5	75	0	13.544	/	Pass
		1732.5	75	0	13.562	/	Pass
		1747.5	75	0	13.595	/	Pass
	16QAM	1717.5	75	0	13.548	/	Pass
		1732.5	75	0	13.583	/	Pass
		1747.5	75	0	13.529	/	Pass
20	QPSK	1720	100	0	18.042	/	Pass
		1732.5	100	0	18.101	/	Pass
		1745	100	0	18.067	/	Pass
	16QAM	1720	100	0	18.060	/	Pass
		1732.5	100	0	18.127	/	Pass
		1745	100	0	18.117	/	Pass

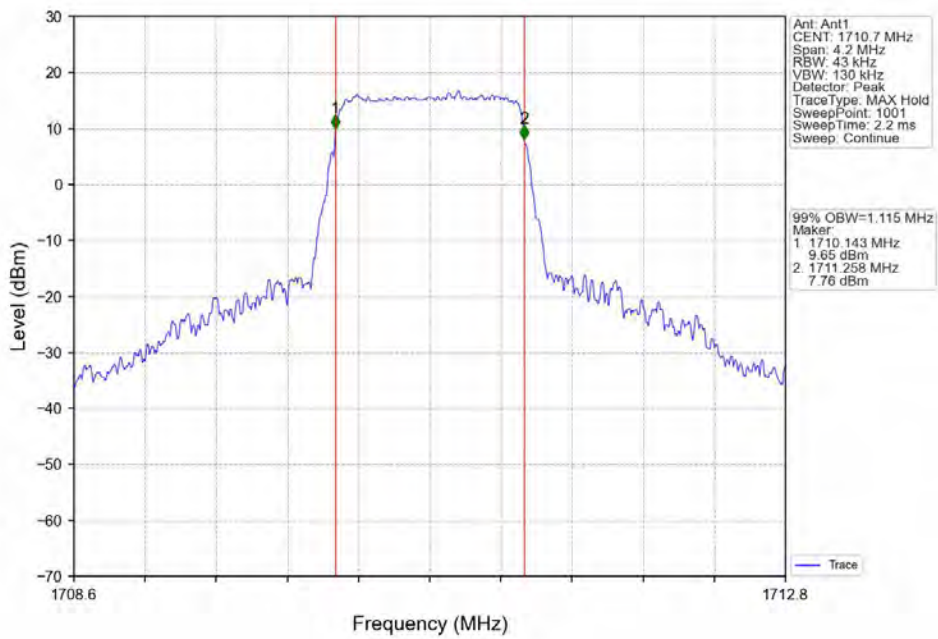
4.1.2 Test Graph



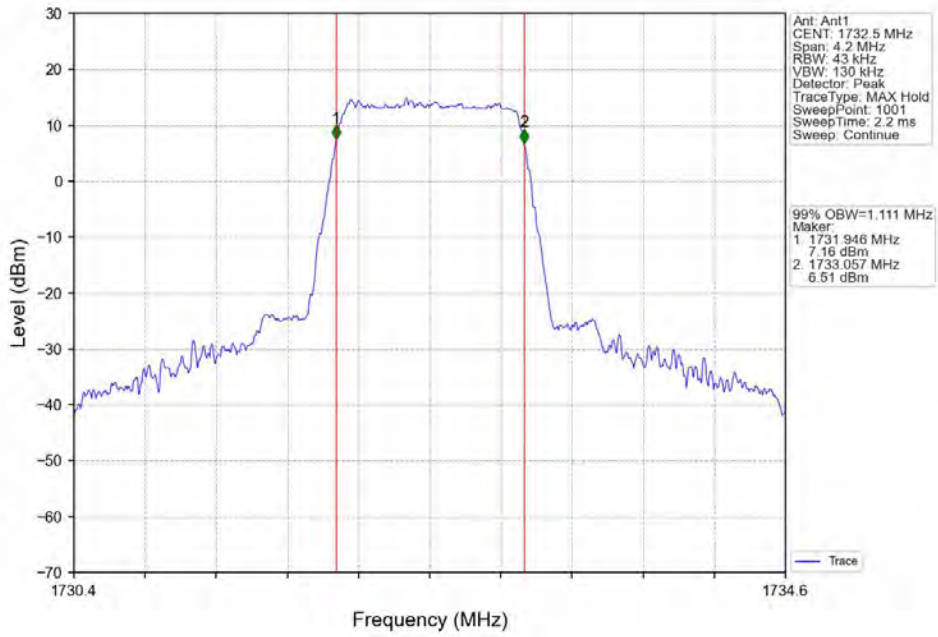
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



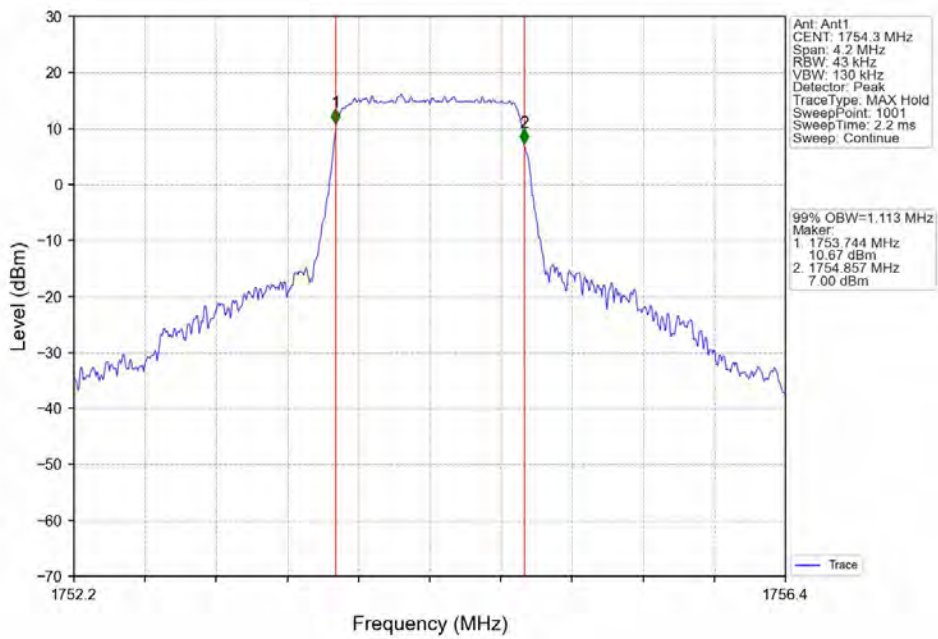
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



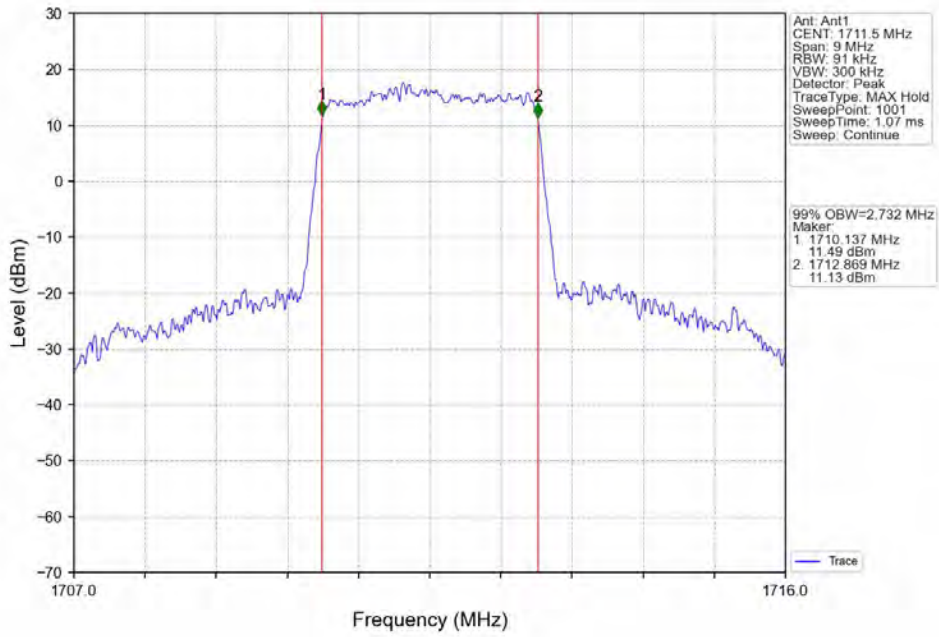
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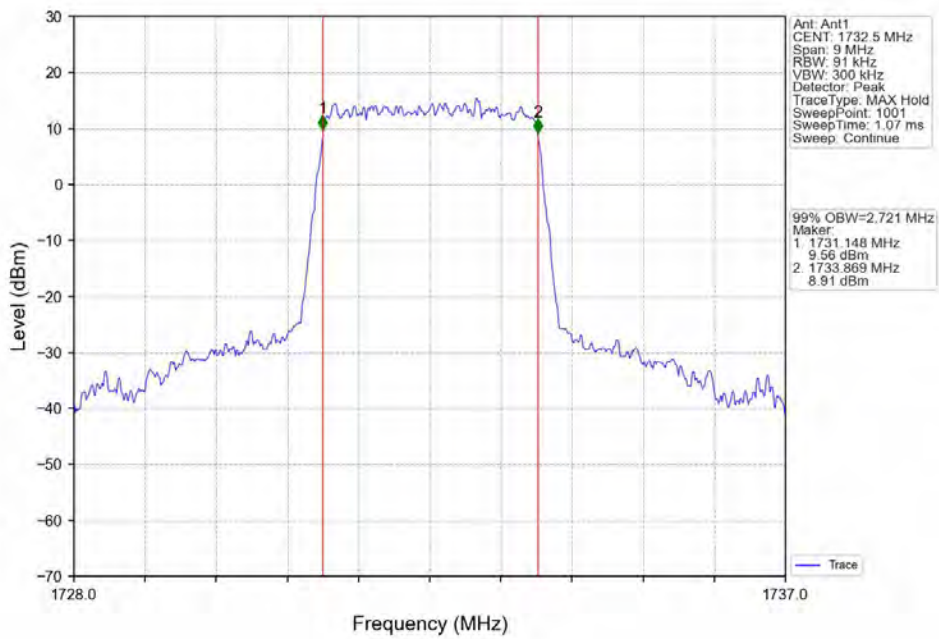
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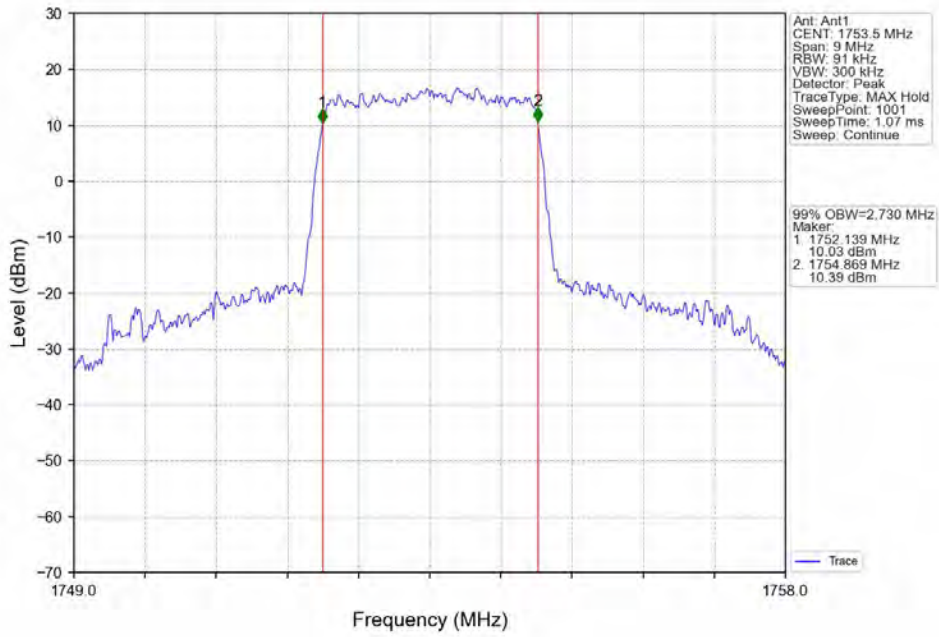
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



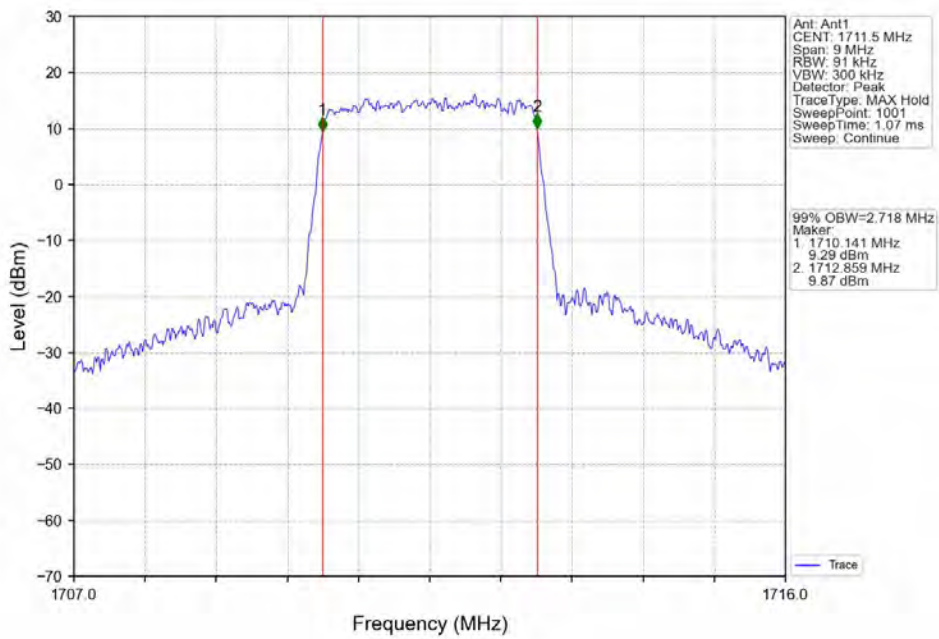
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



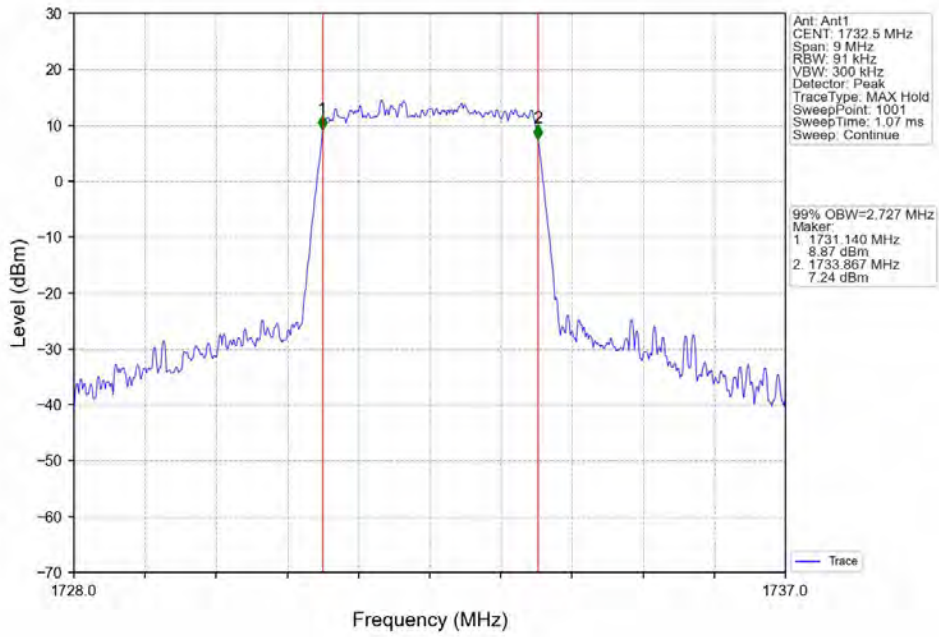
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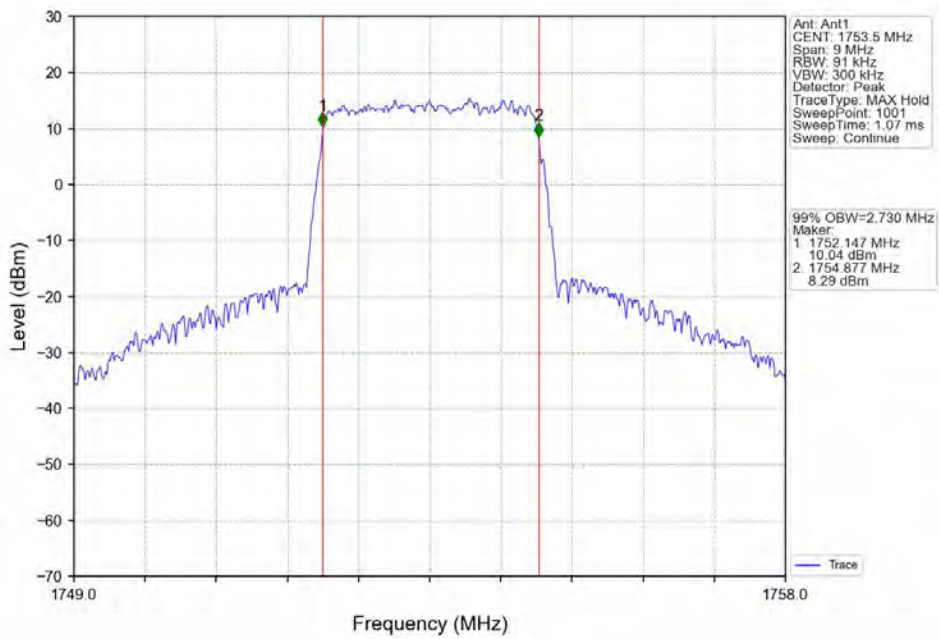
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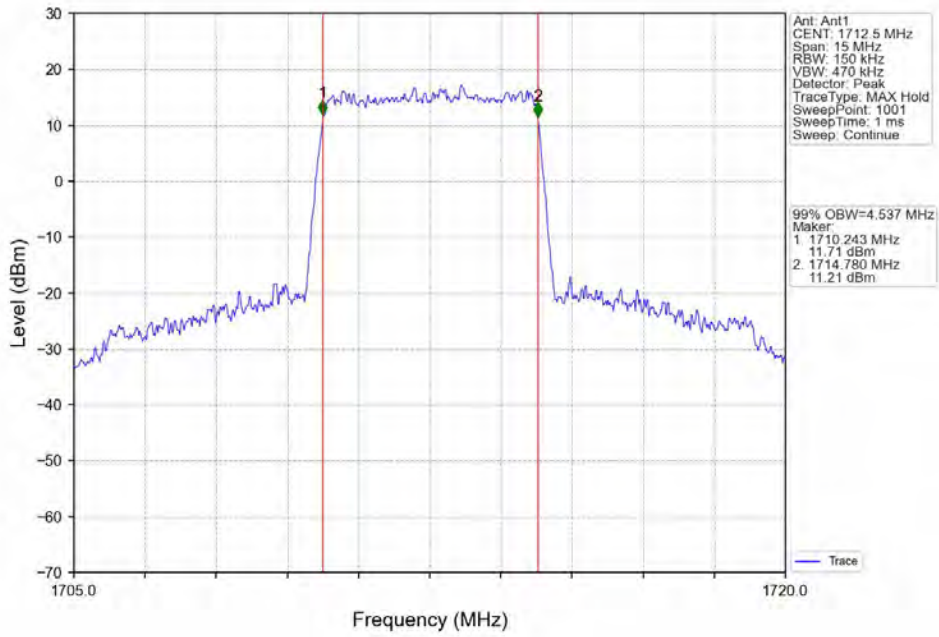
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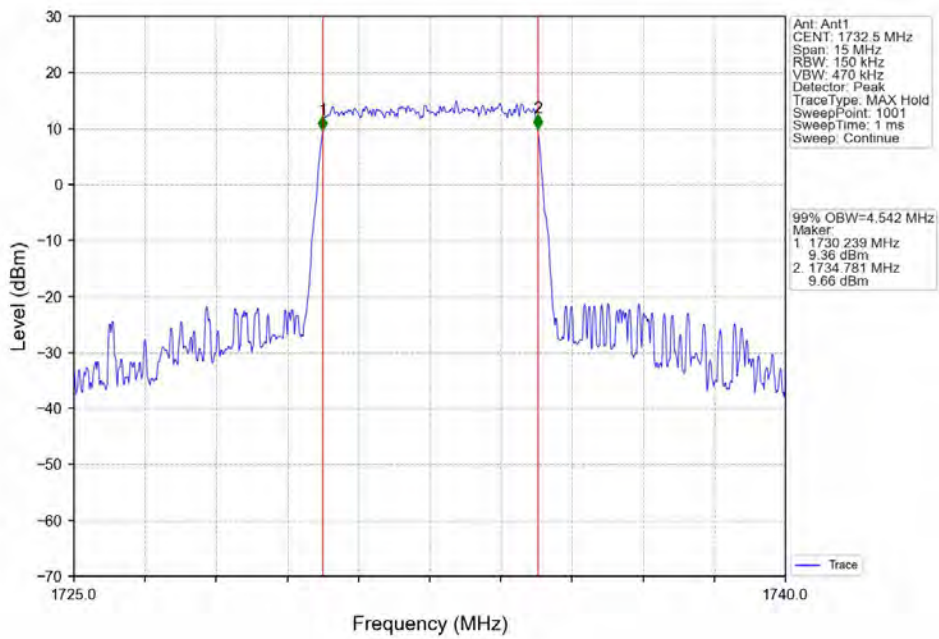
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



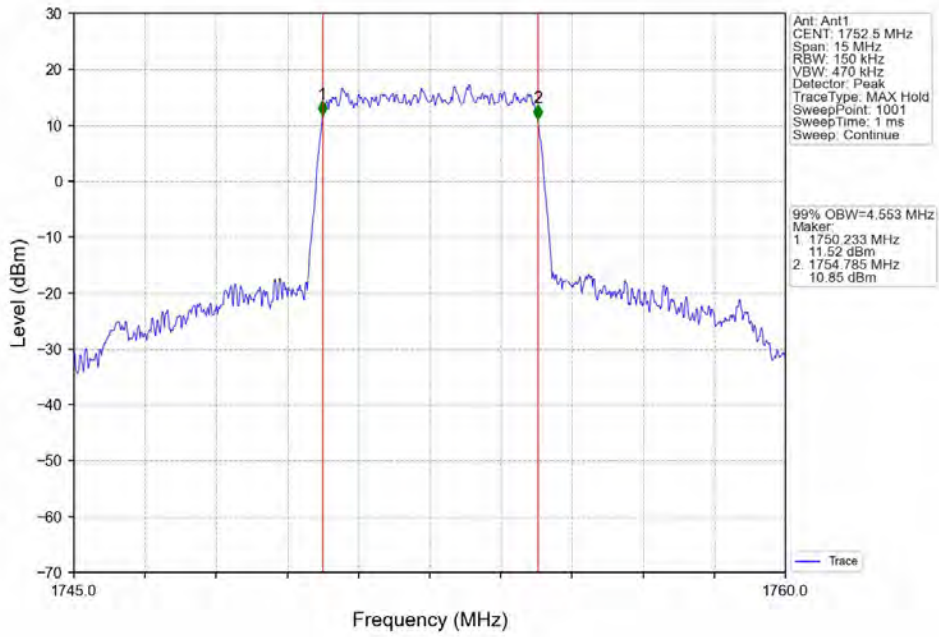
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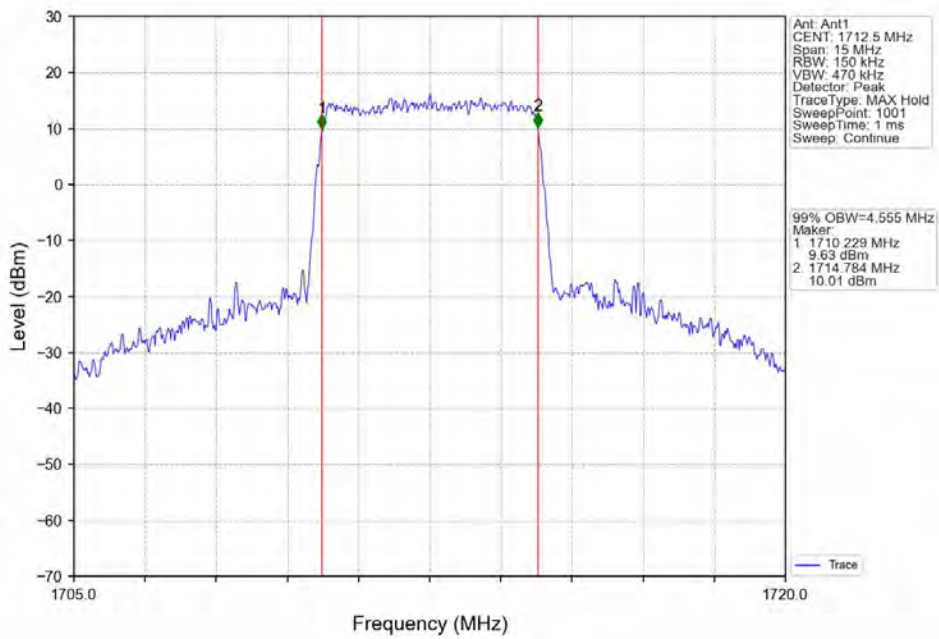
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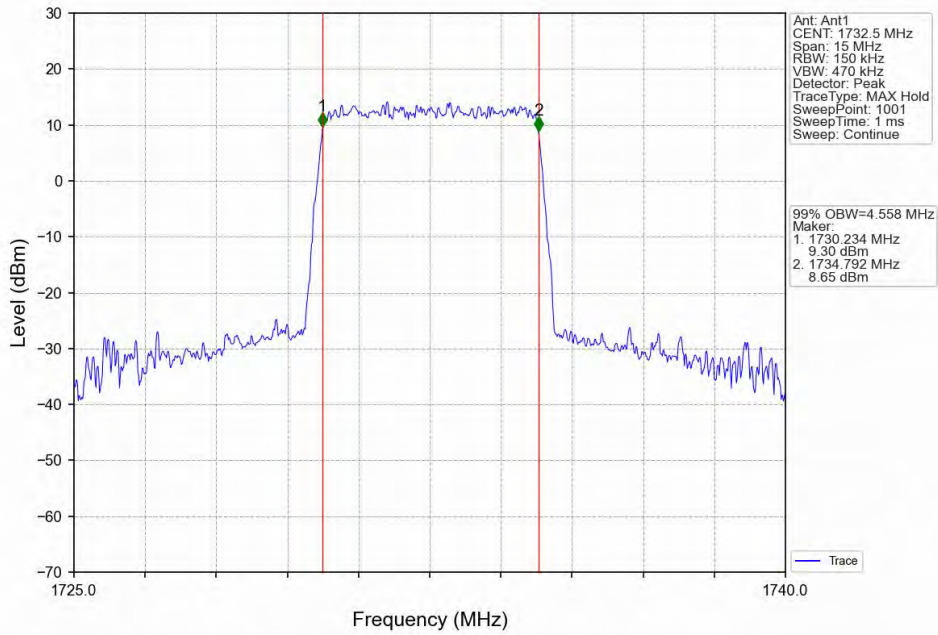
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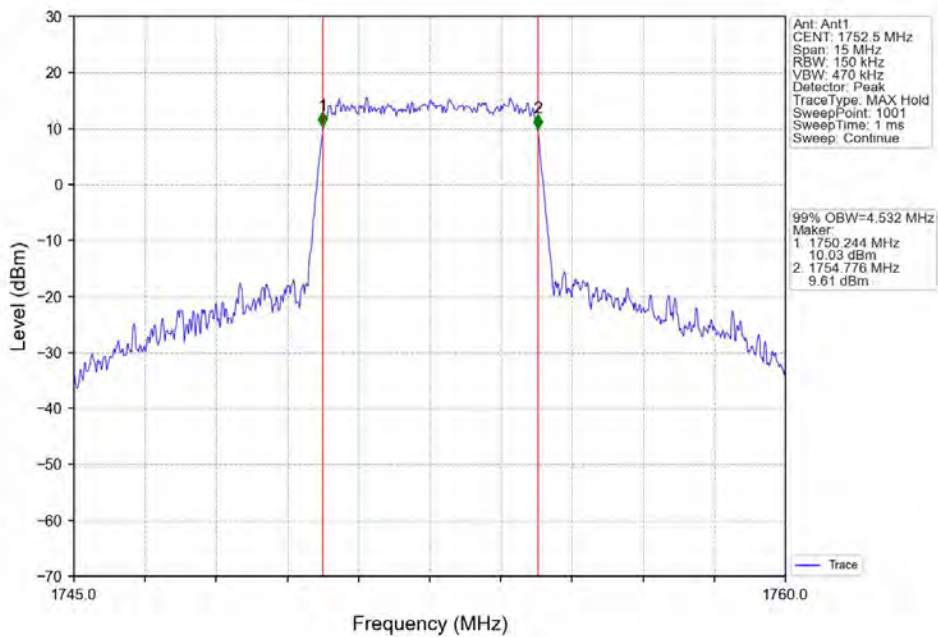
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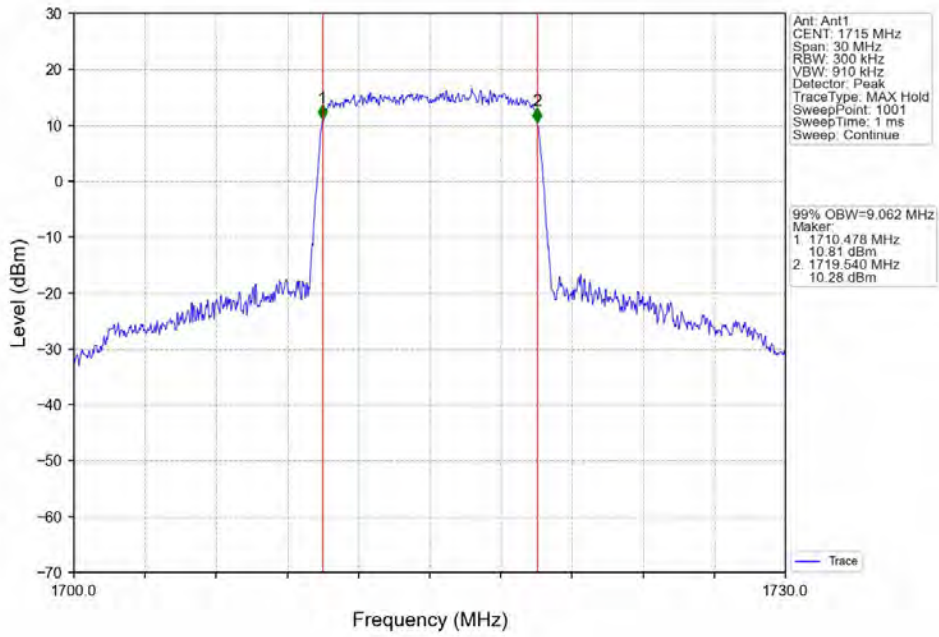
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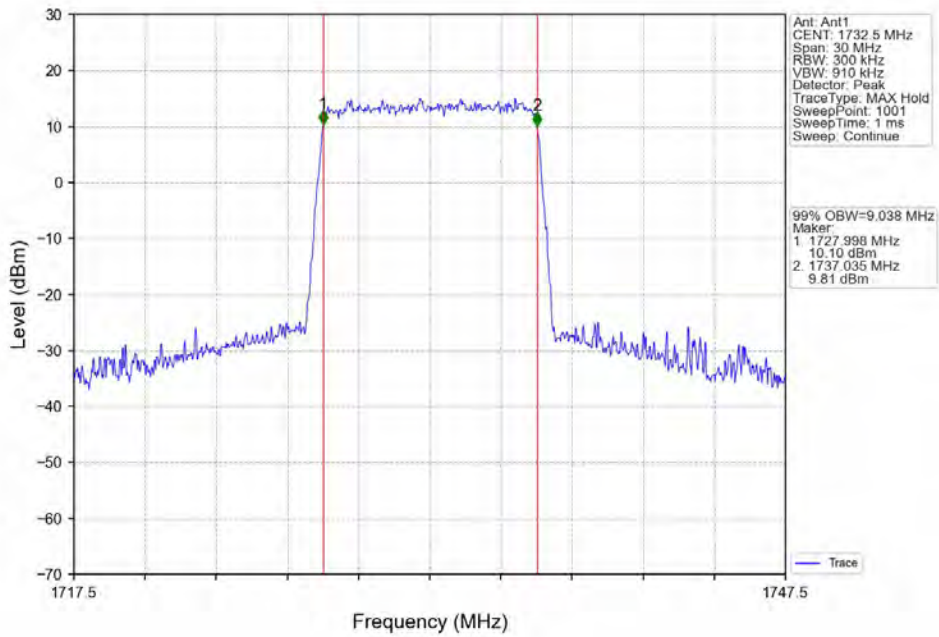
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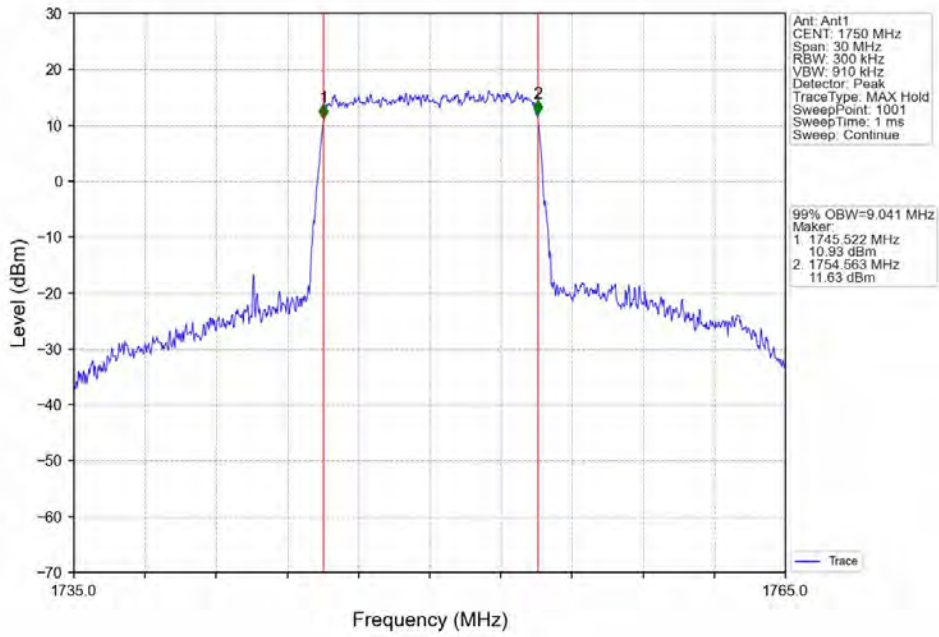
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



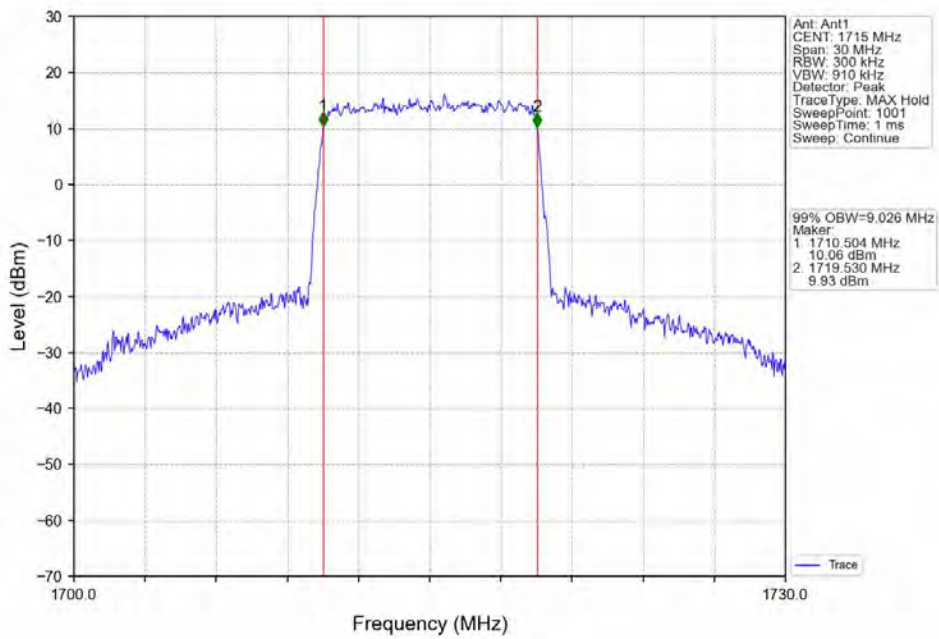
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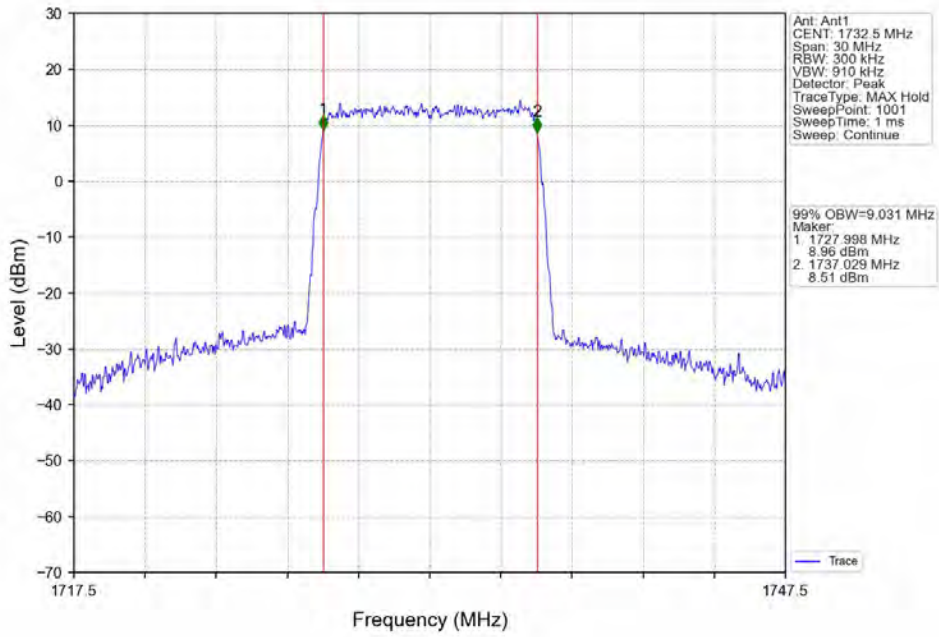
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



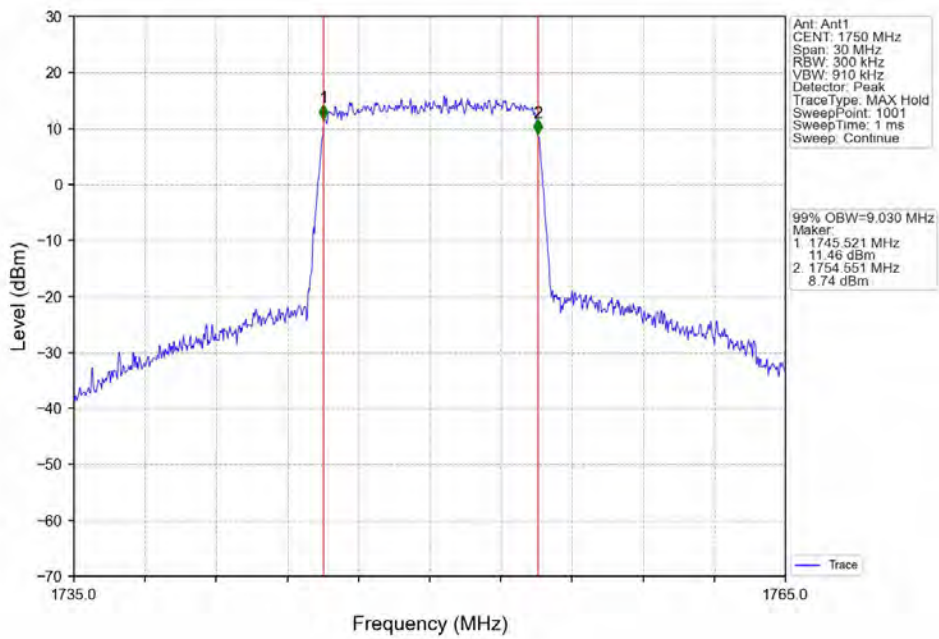
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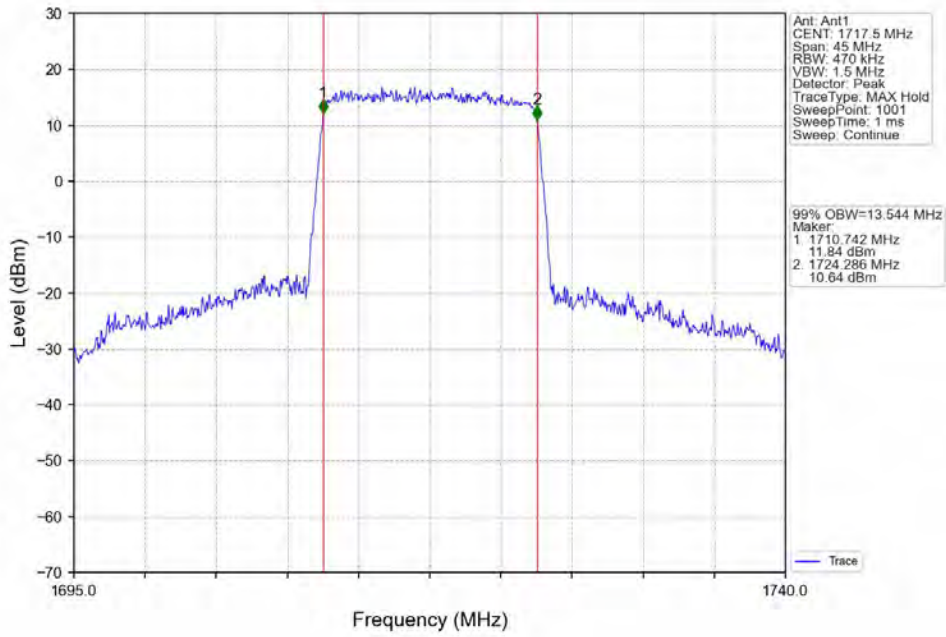
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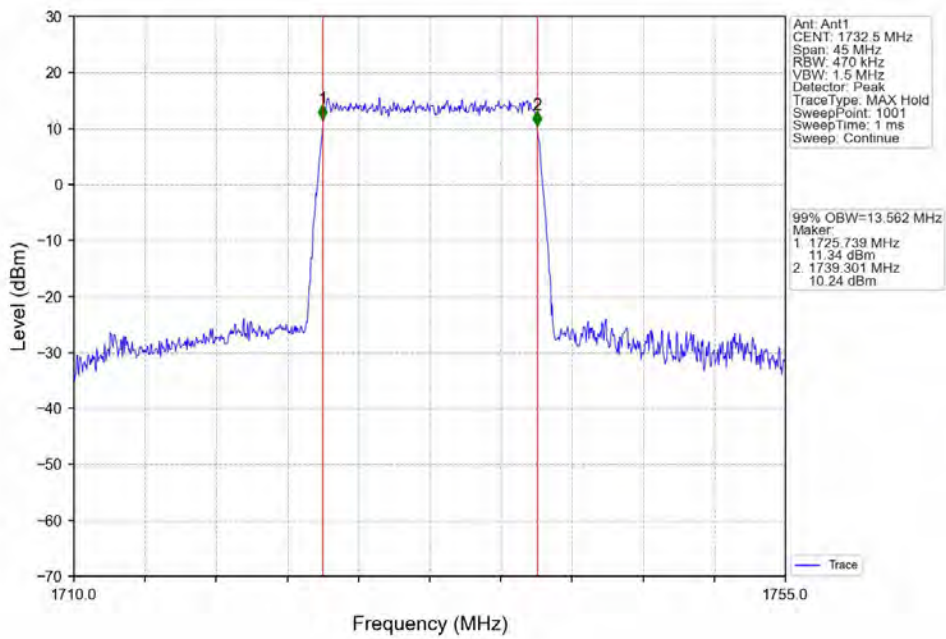
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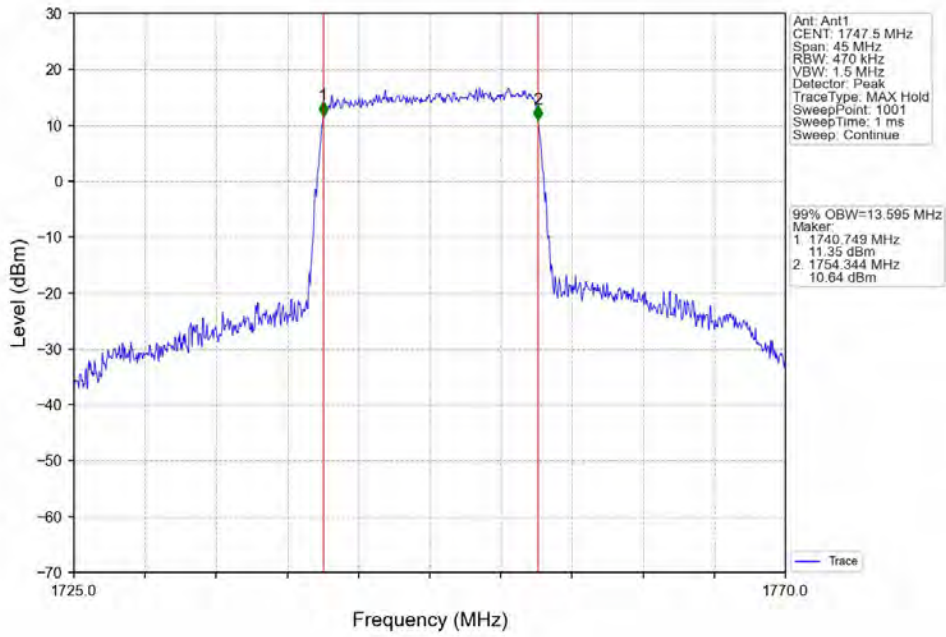
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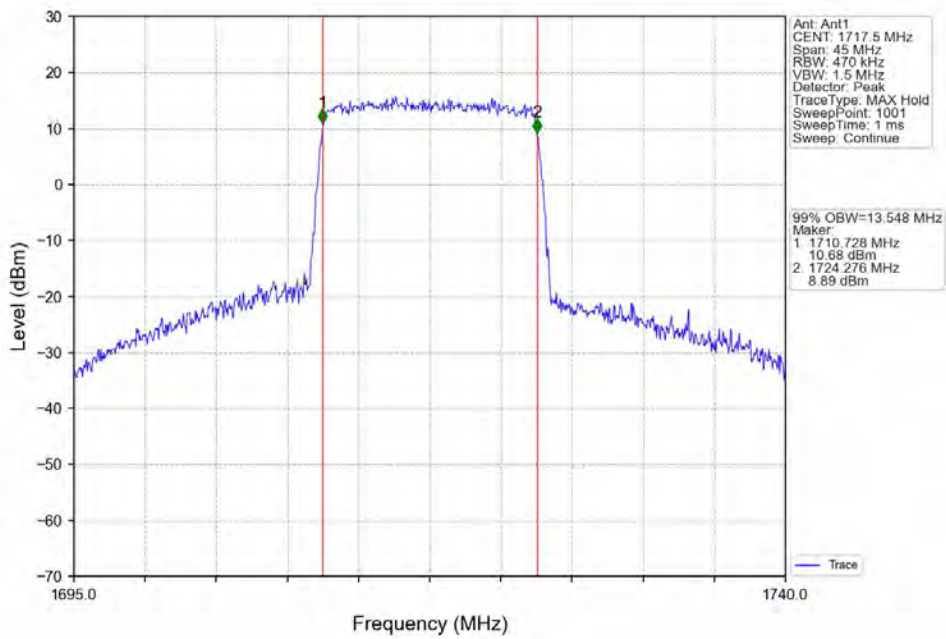
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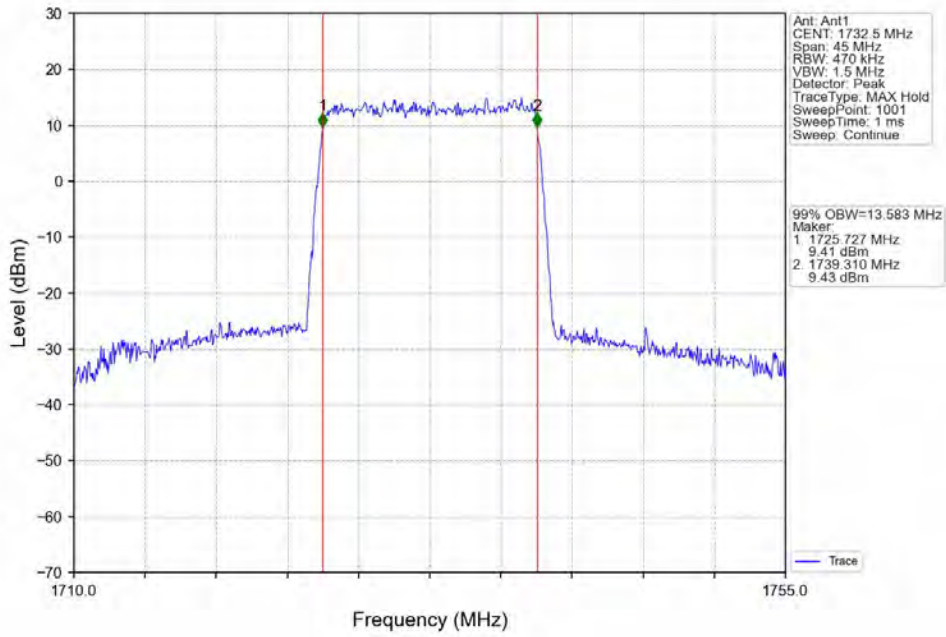
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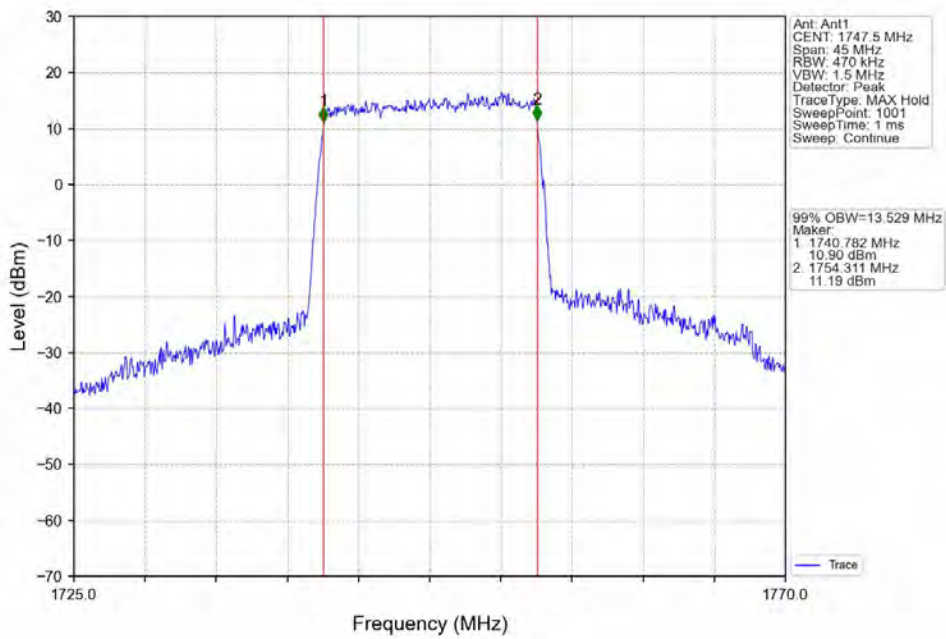
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



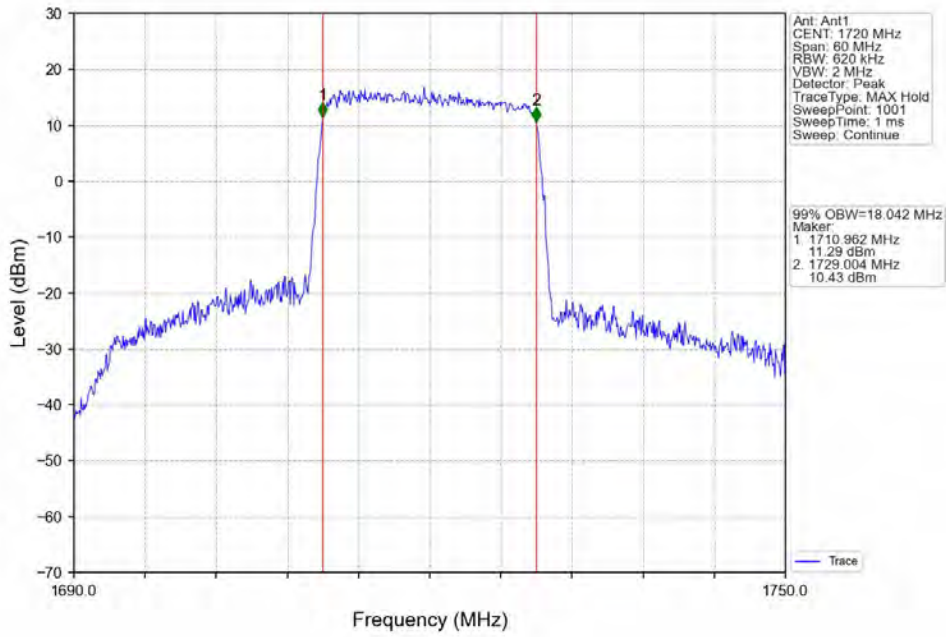
Band4 15MHz 16QAM MCH 1732.5MHz RB 75_0_NTNV



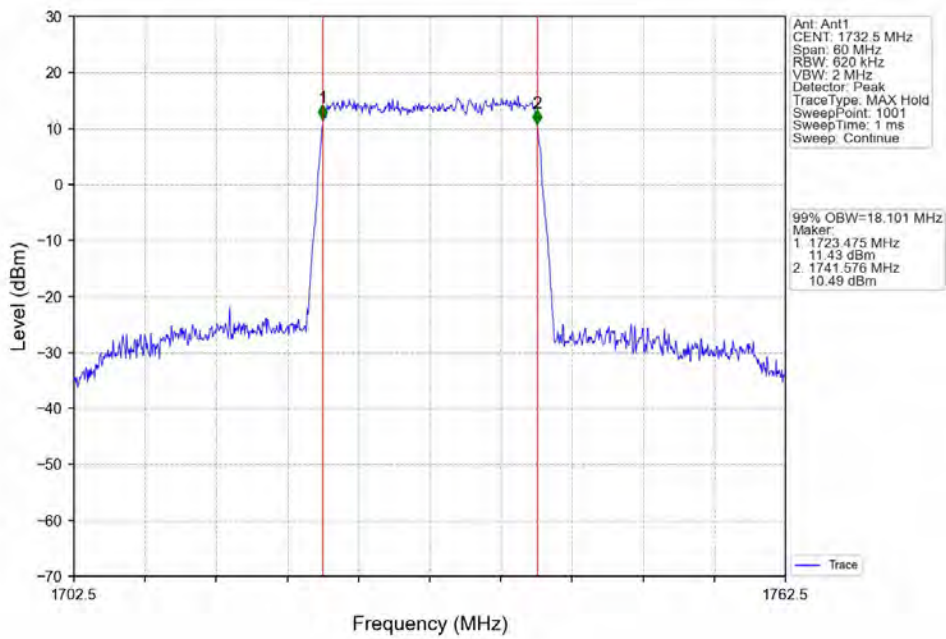
Band4 15MHz 16QAM HCH 1747.5MHz RB 75_0_NTNV



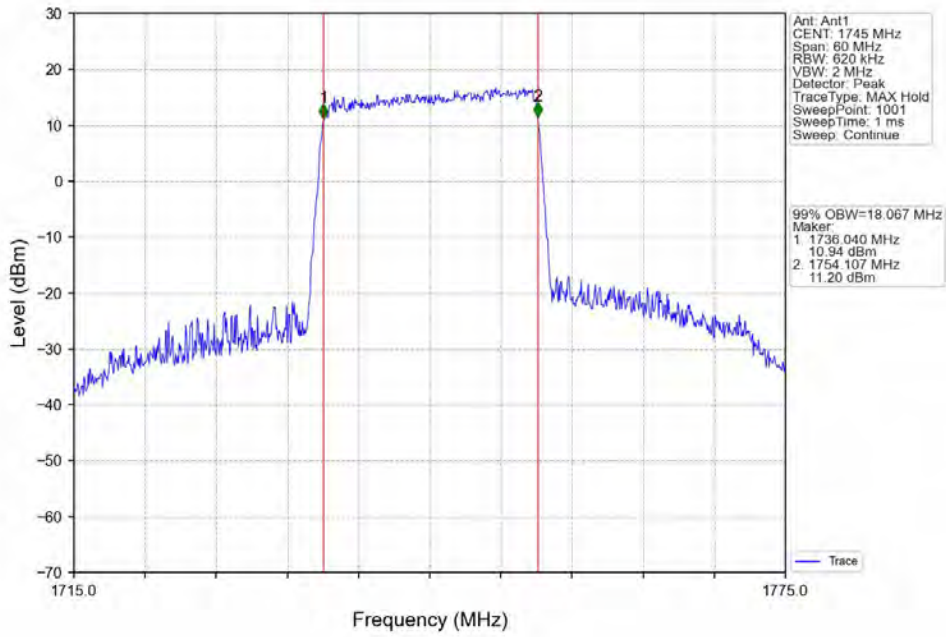
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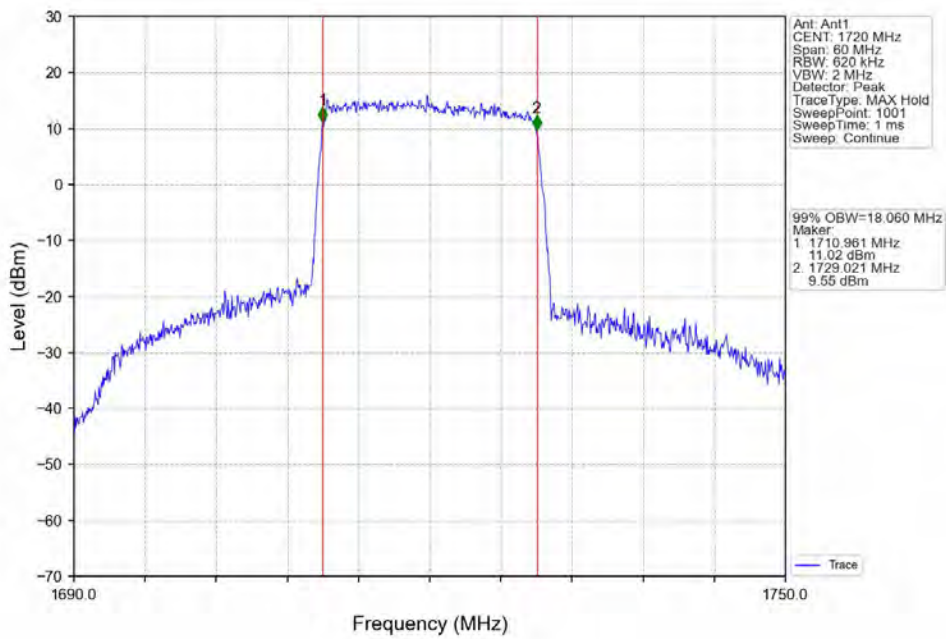
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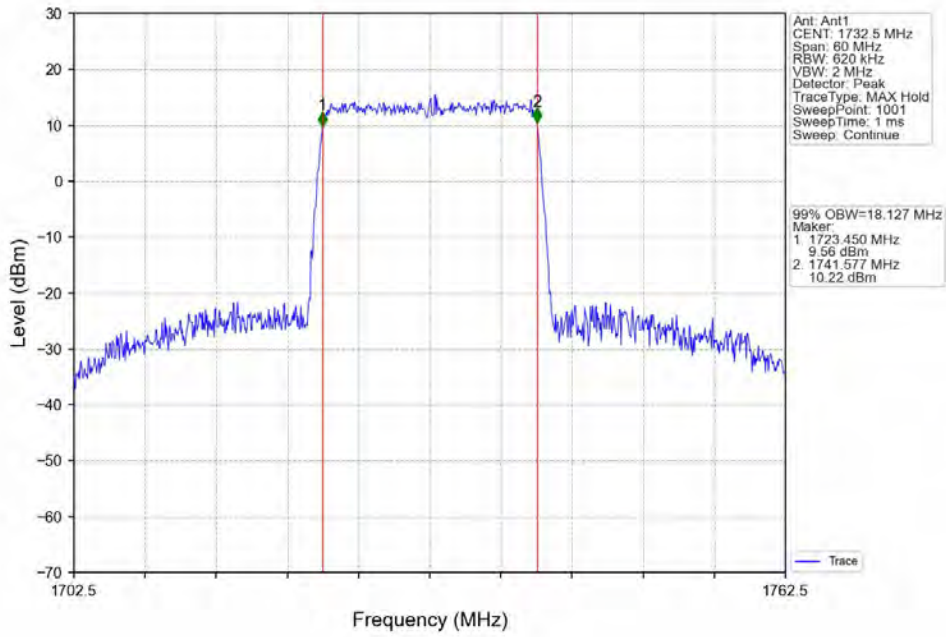
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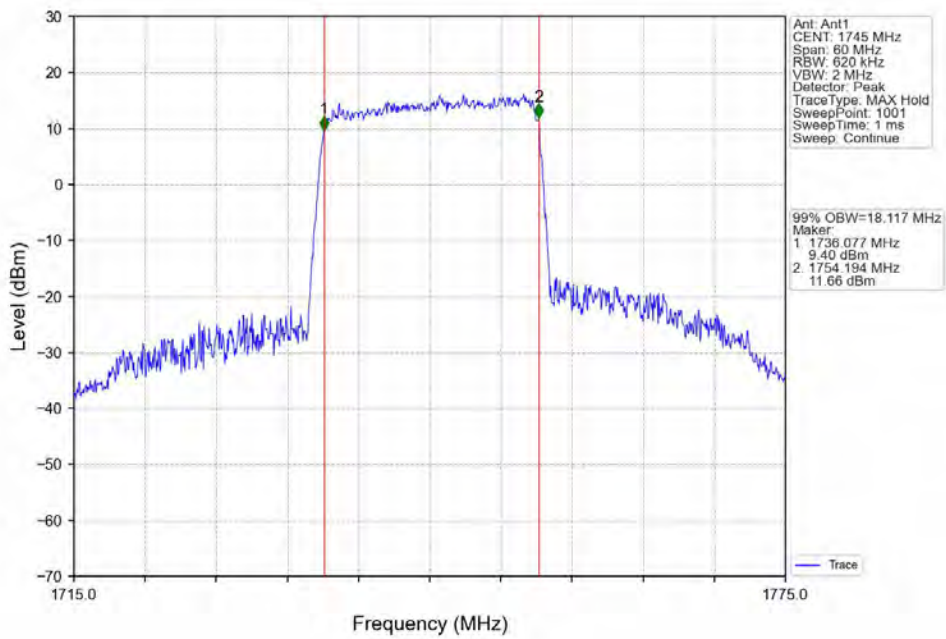
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

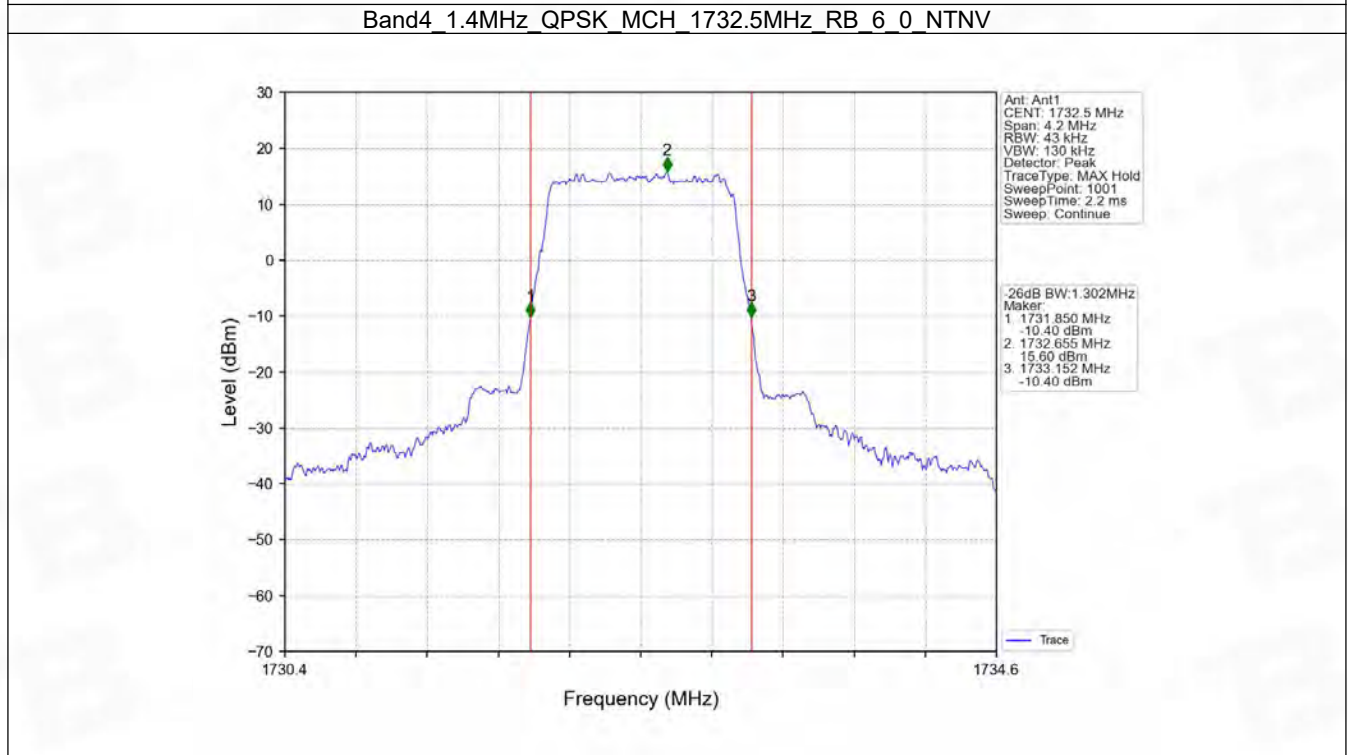
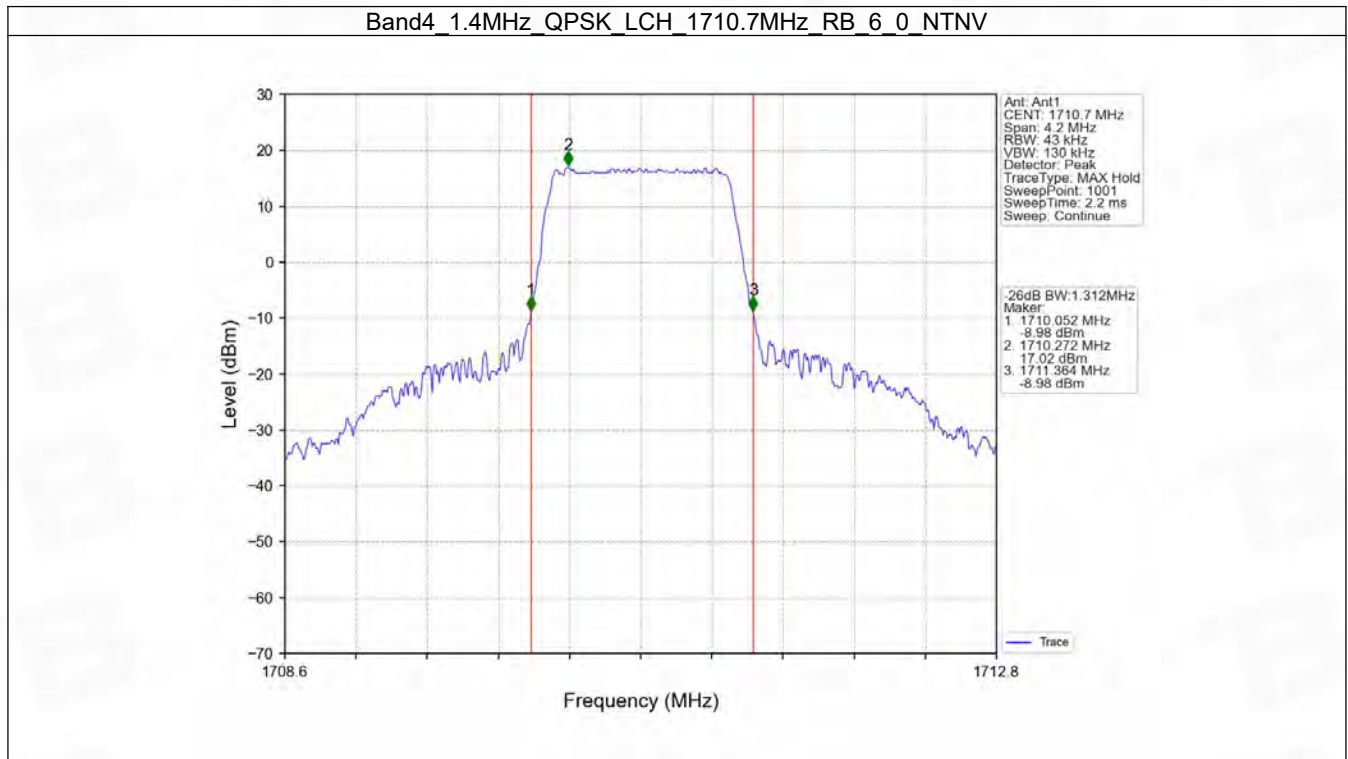


4.2 Band4_XDB

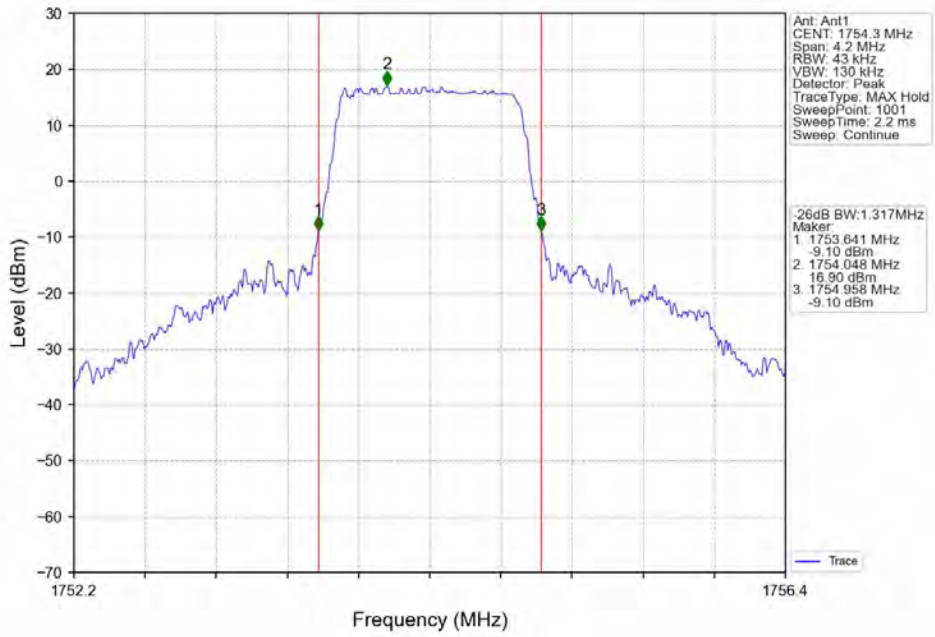
4.2.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.312	/	Pass
		1732.5	6	0	1.302	/	Pass
		1754.3	6	0	1.317	/	Pass
	16QAM	1710.7	6	0	1.326	/	Pass
		1732.5	6	0	1.316	/	Pass
		1754.3	6	0	1.302	/	Pass
3	QPSK	1711.5	15	0	3.044	/	Pass
		1732.5	15	0	3.045	/	Pass
		1753.5	15	0	3.034	/	Pass
	16QAM	1711.5	15	0	3.056	/	Pass
		1732.5	15	0	3.040	/	Pass
		1753.5	15	0	3.073	/	Pass
5	QPSK	1712.5	25	0	4.992	/	Pass
		1732.5	25	0	5.013	/	Pass
		1752.5	25	0	4.985	/	Pass
	16QAM	1712.5	25	0	5.004	/	Pass
		1732.5	25	0	5.007	/	Pass
		1752.5	25	0	4.998	/	Pass
10	QPSK	1715	50	0	9.866	/	Pass
		1732.5	50	0	9.892	/	Pass
		1750	50	0	9.944	/	Pass
	16QAM	1715	50	0	9.919	/	Pass
		1732.5	50	0	9.855	/	Pass
		1750	50	0	9.900	/	Pass
15	QPSK	1717.5	75	0	14.836	/	Pass
		1732.5	75	0	14.872	/	Pass
		1747.5	75	0	14.808	/	Pass
	16QAM	1717.5	75	0	14.781	/	Pass
		1732.5	75	0	14.829	/	Pass
		1747.5	75	0	14.738	/	Pass
20	QPSK	1720	100	0	19.635	/	Pass
		1732.5	100	0	19.806	/	Pass
		1745	100	0	19.612	/	Pass
	16QAM	1720	100	0	19.602	/	Pass
		1732.5	100	0	19.660	/	Pass
		1745	100	0	19.708	/	Pass

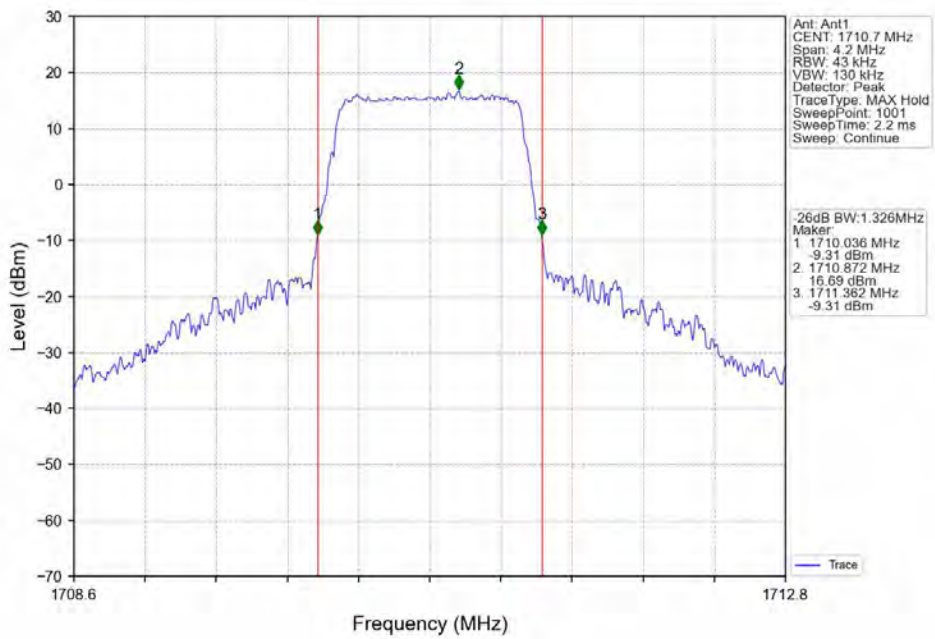
4.2.2 Test Graph



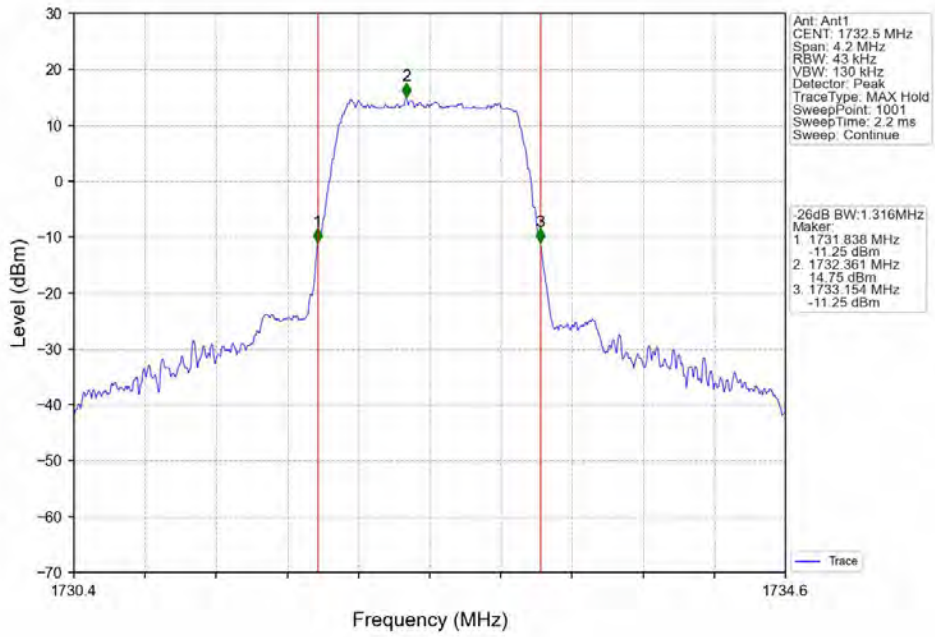
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



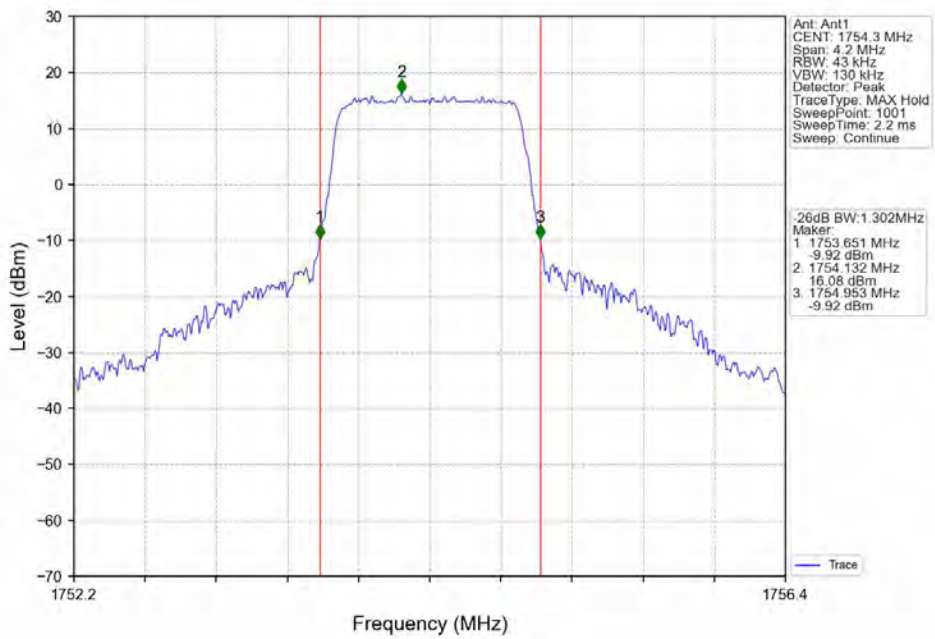
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



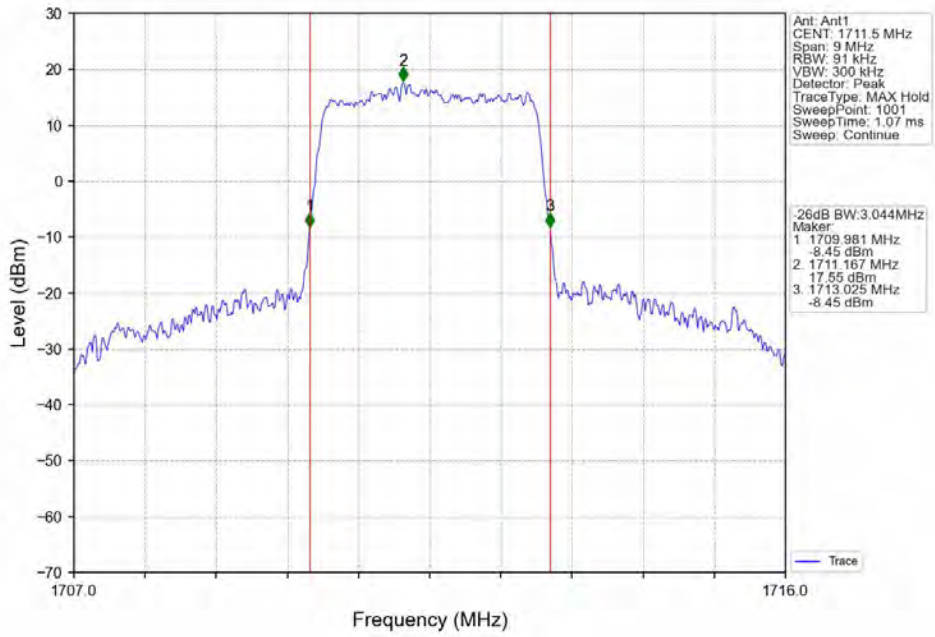
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTN



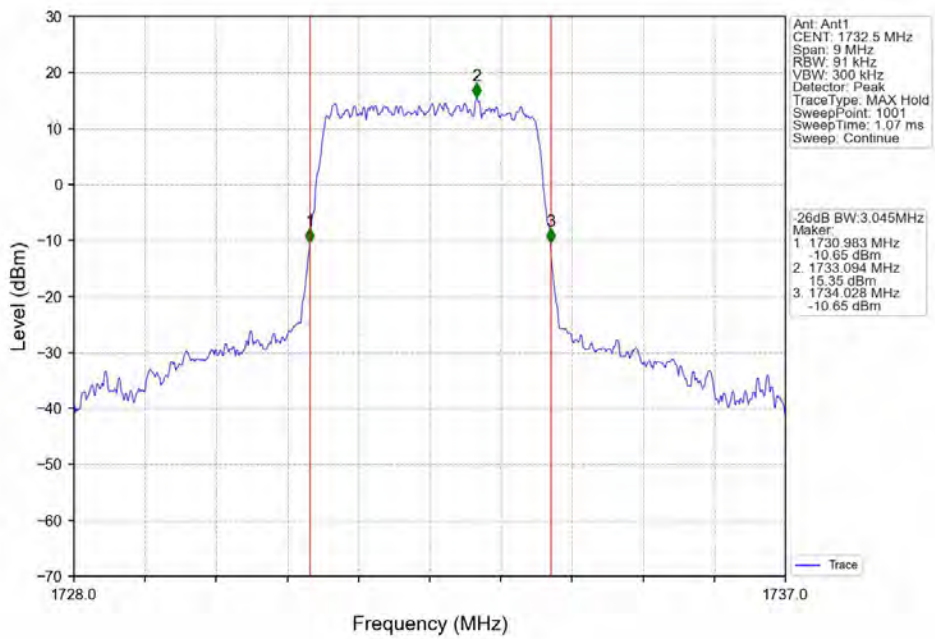
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTN



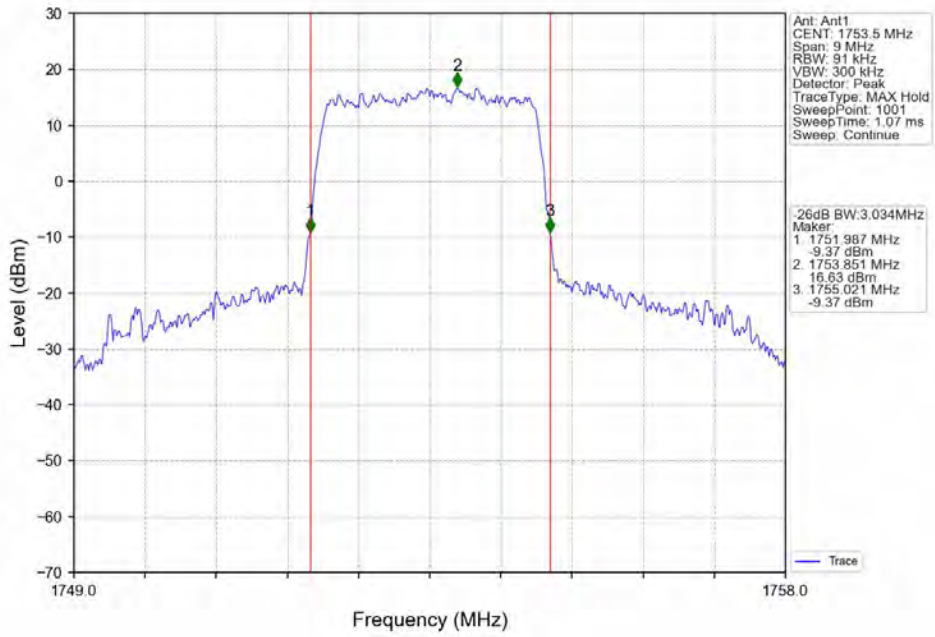
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



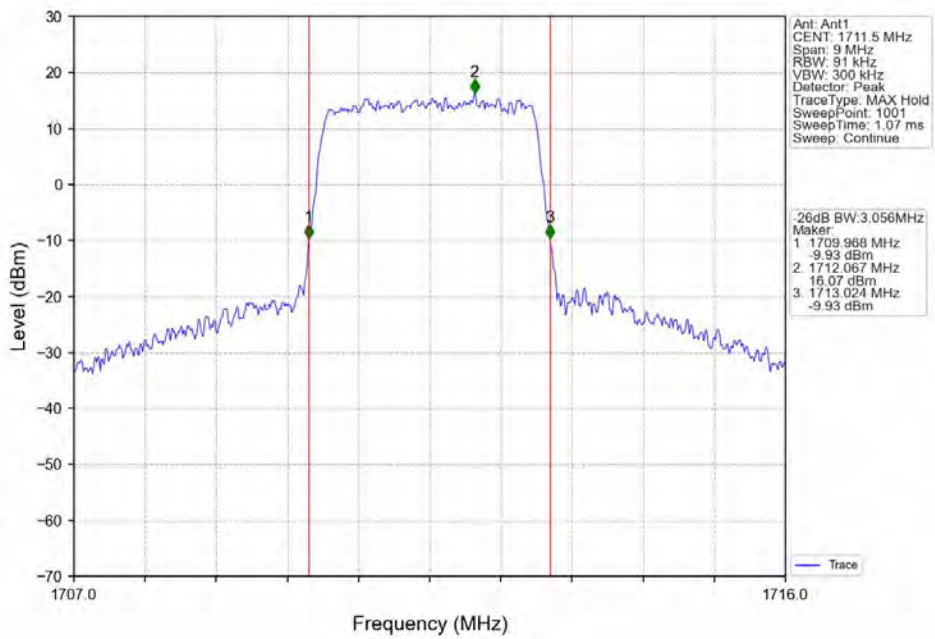
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



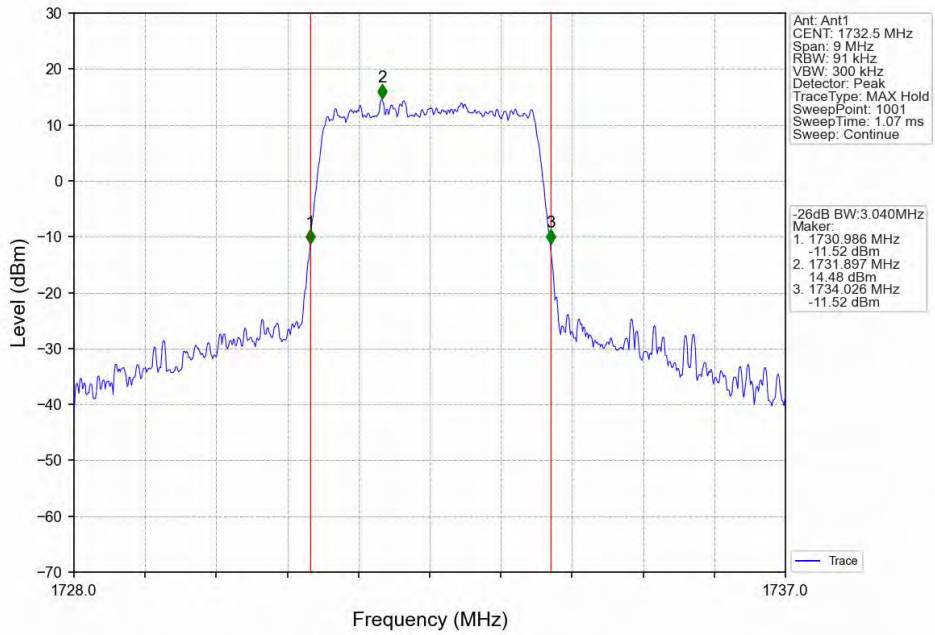
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



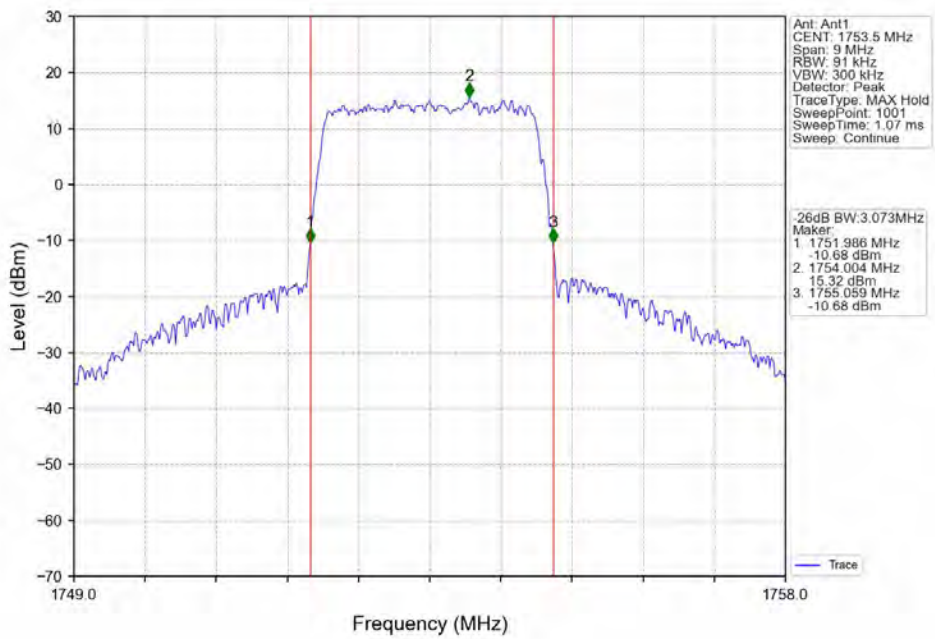
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



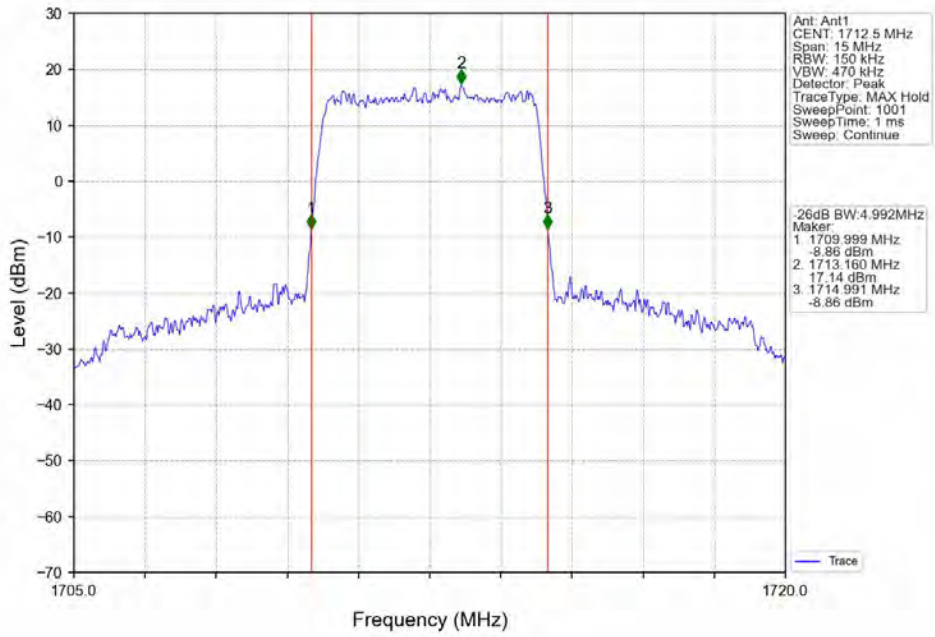
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



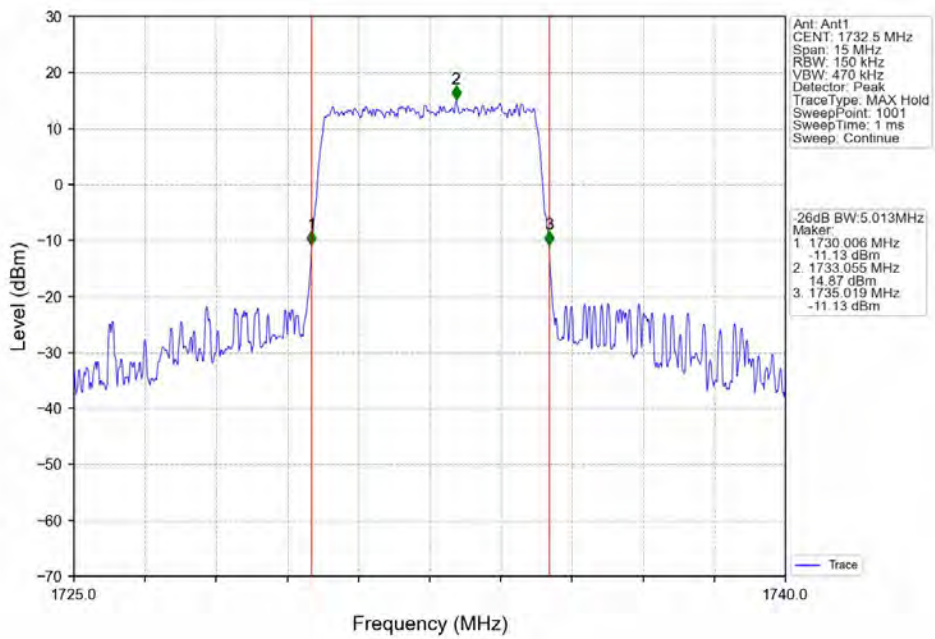
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



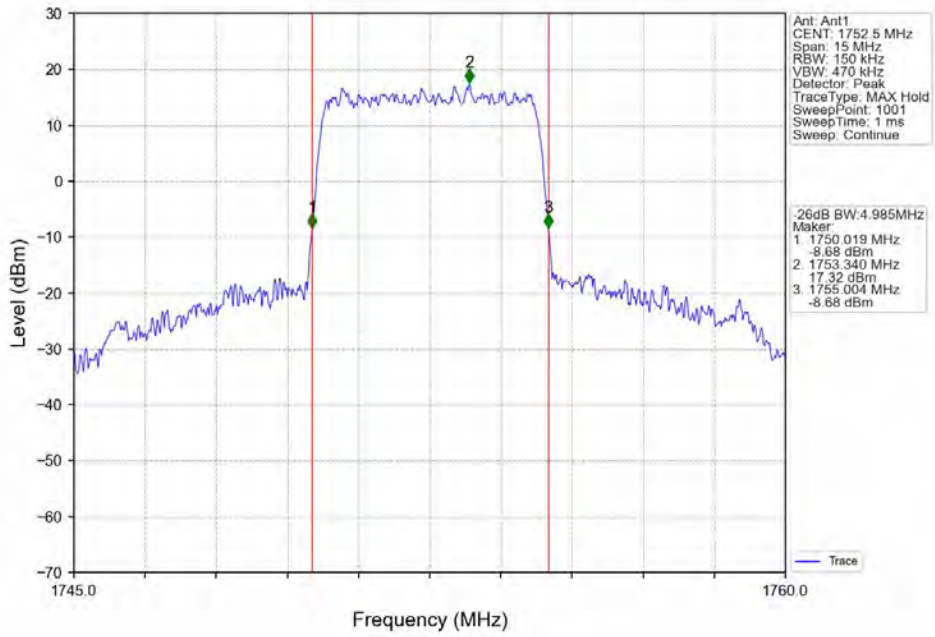
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



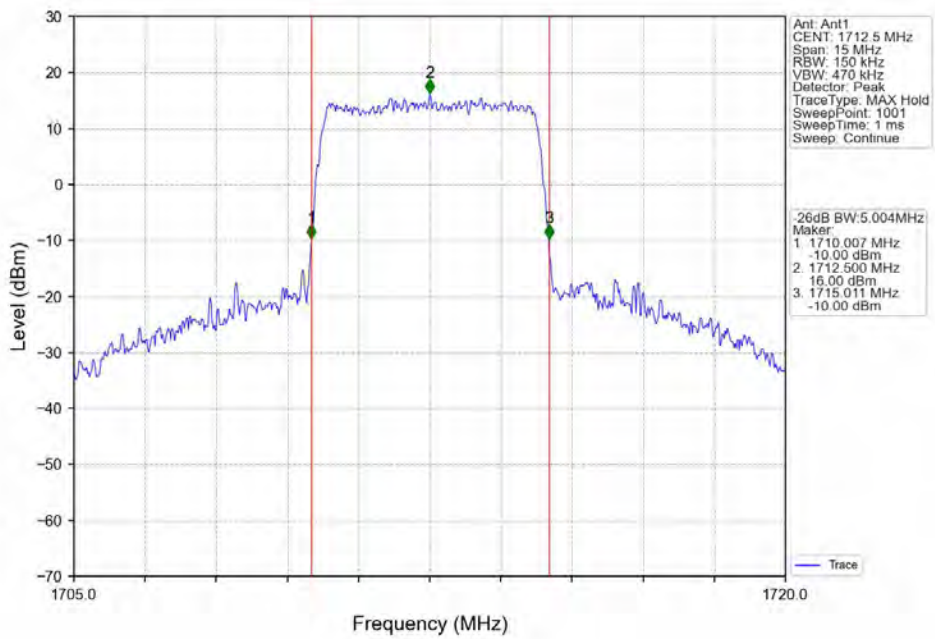
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



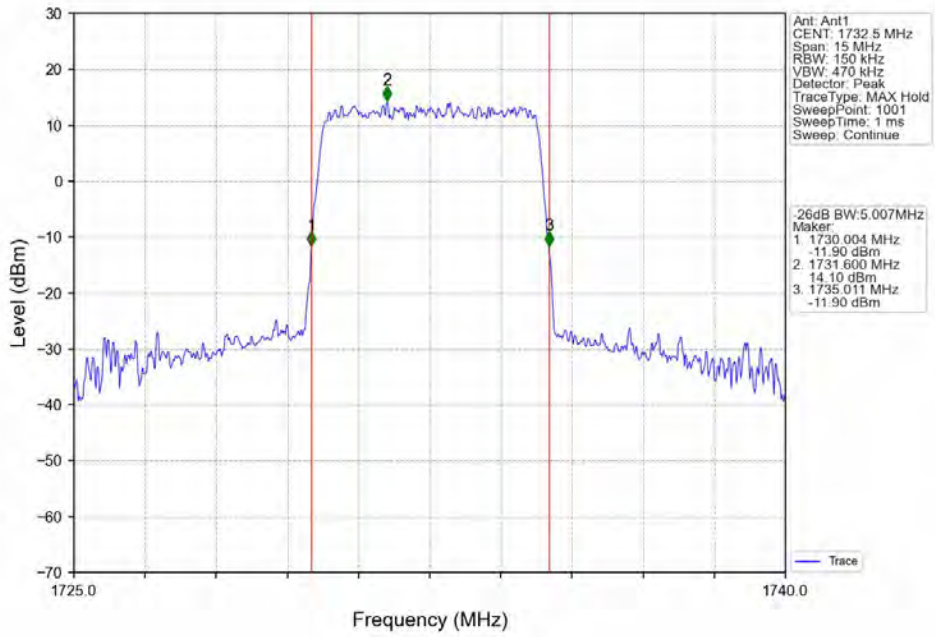
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



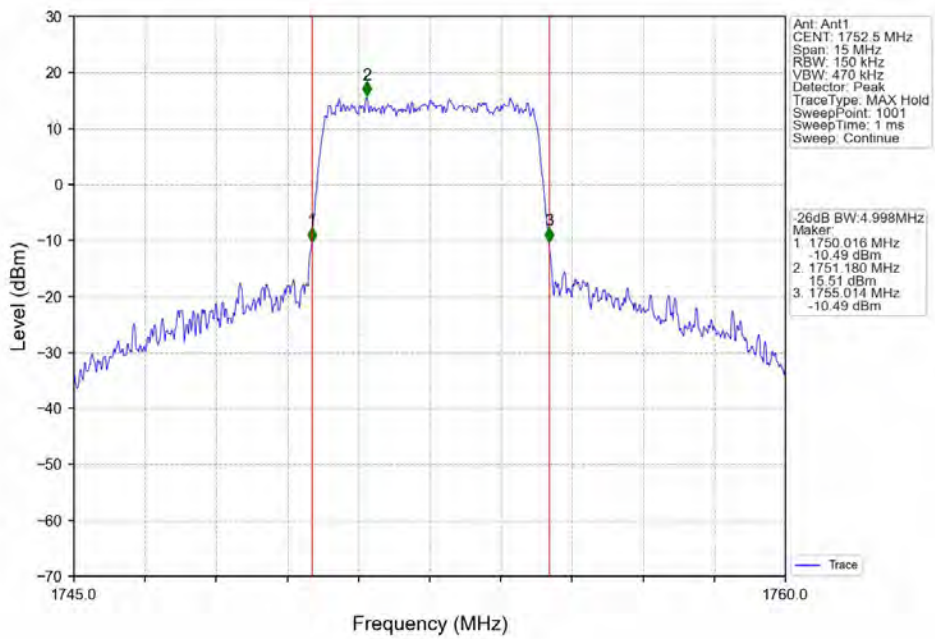
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



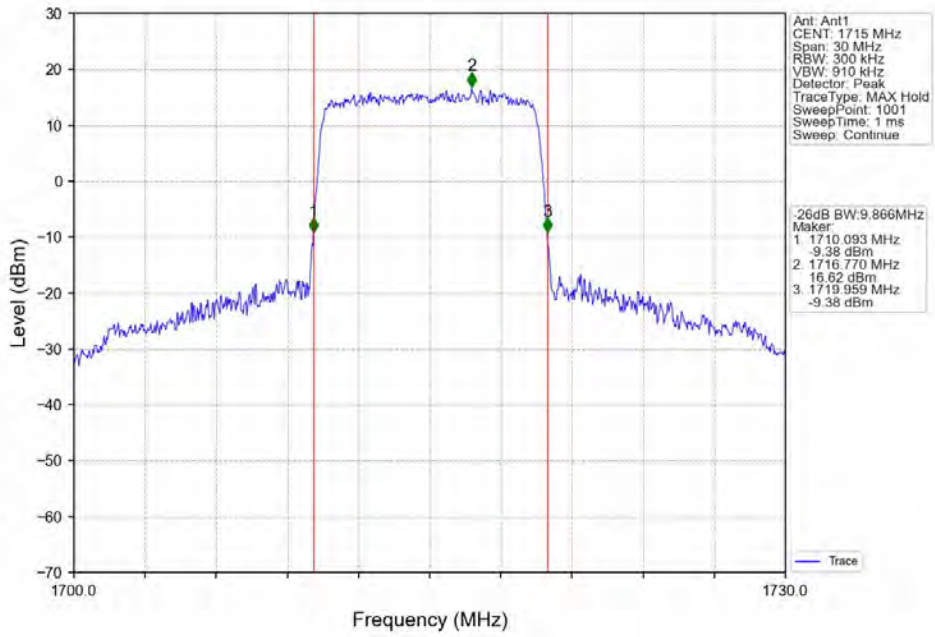
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



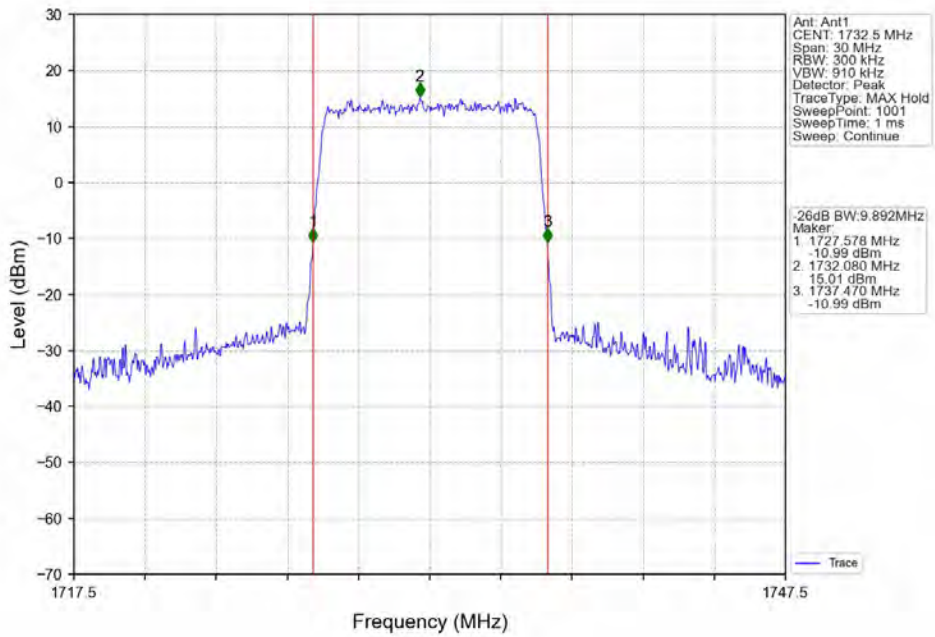
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



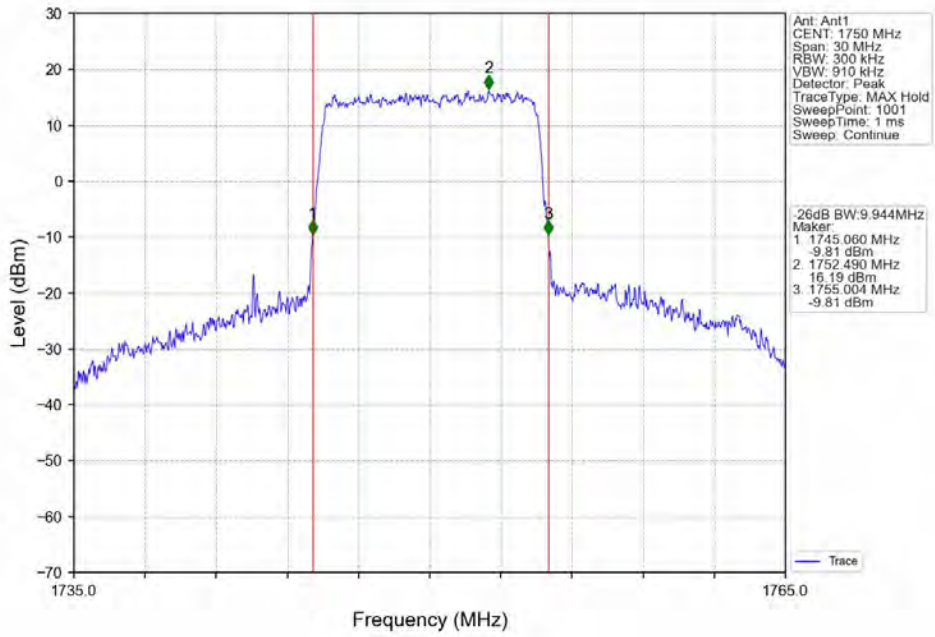
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



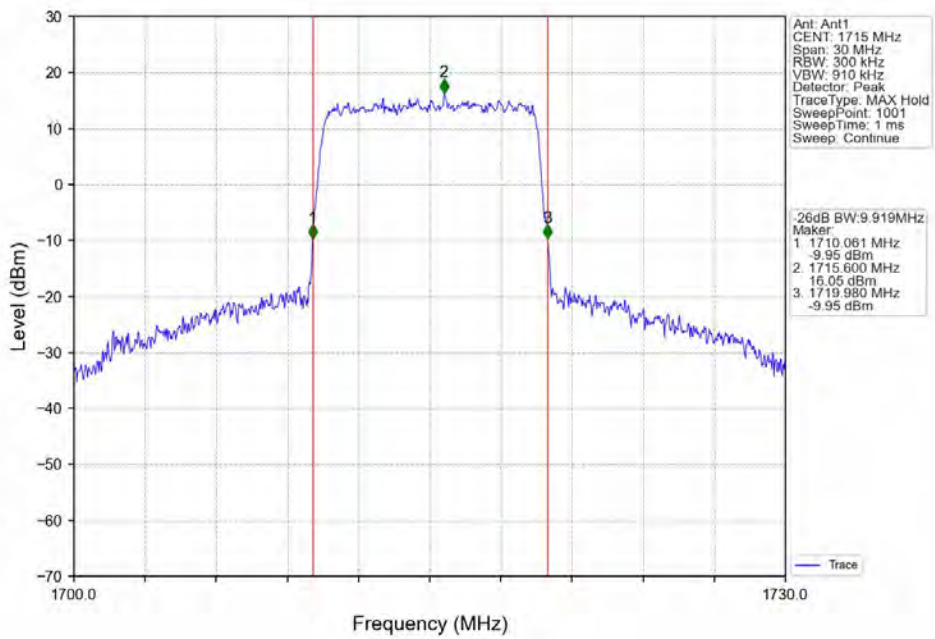
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



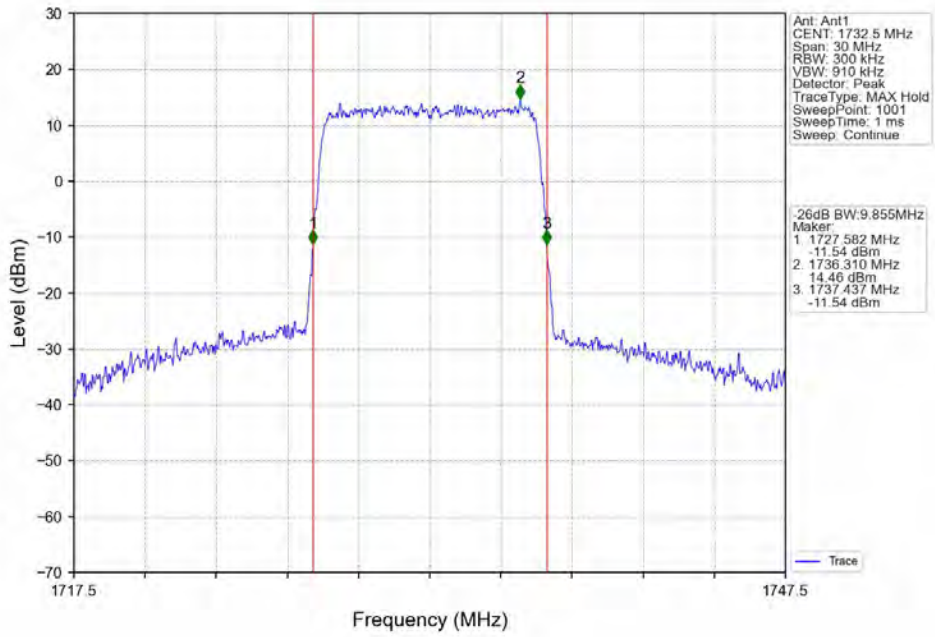
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



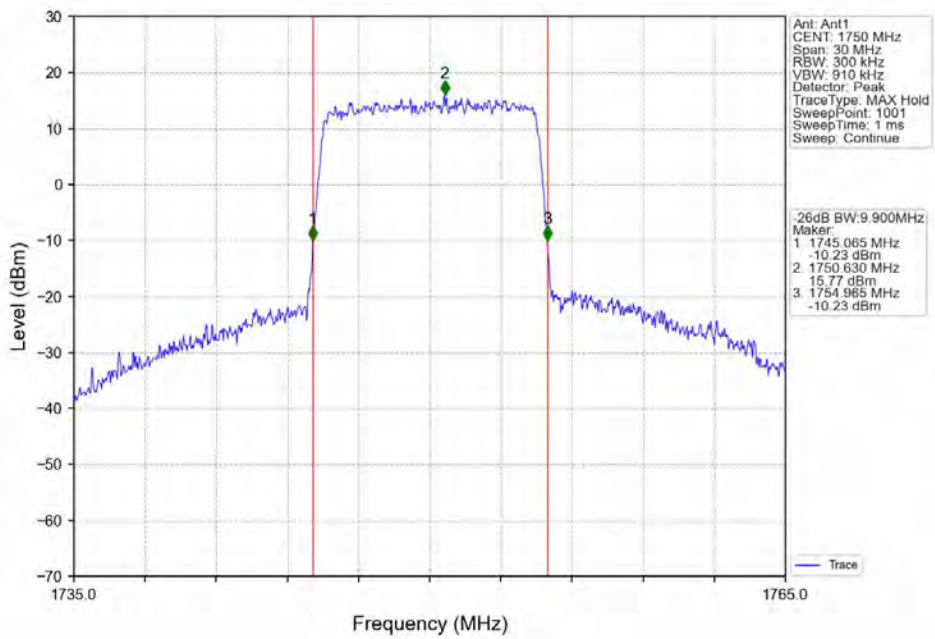
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



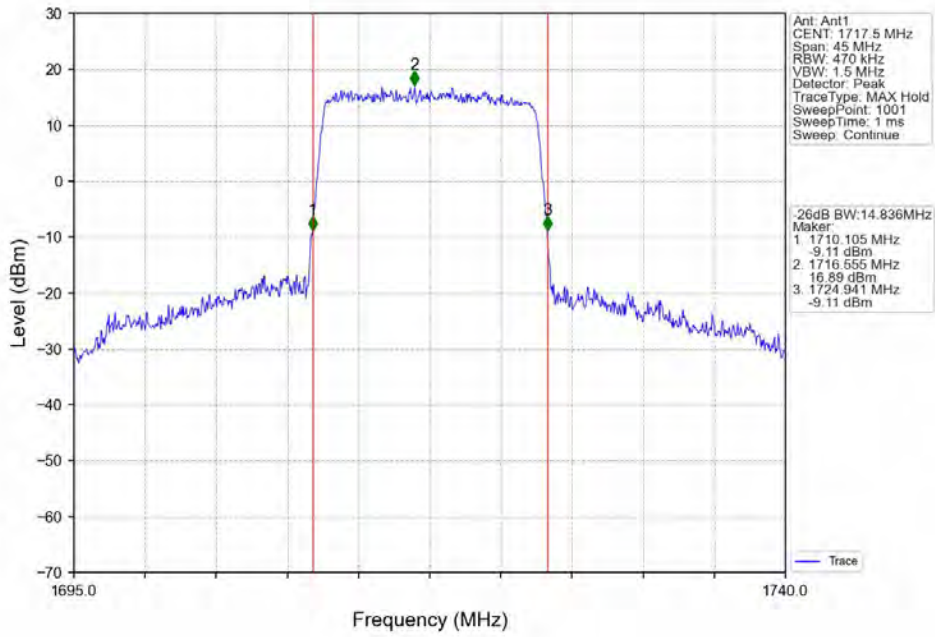
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



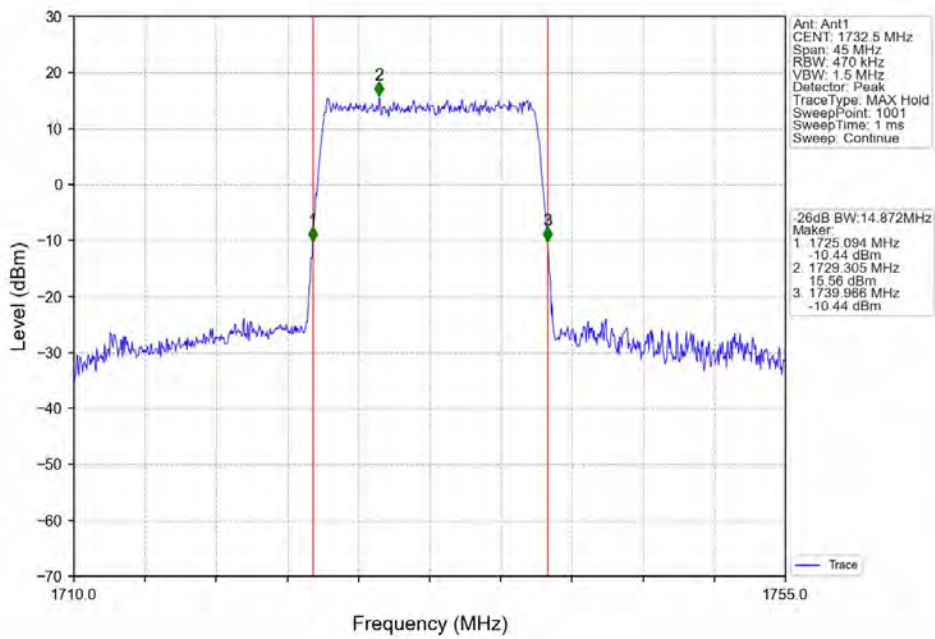
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



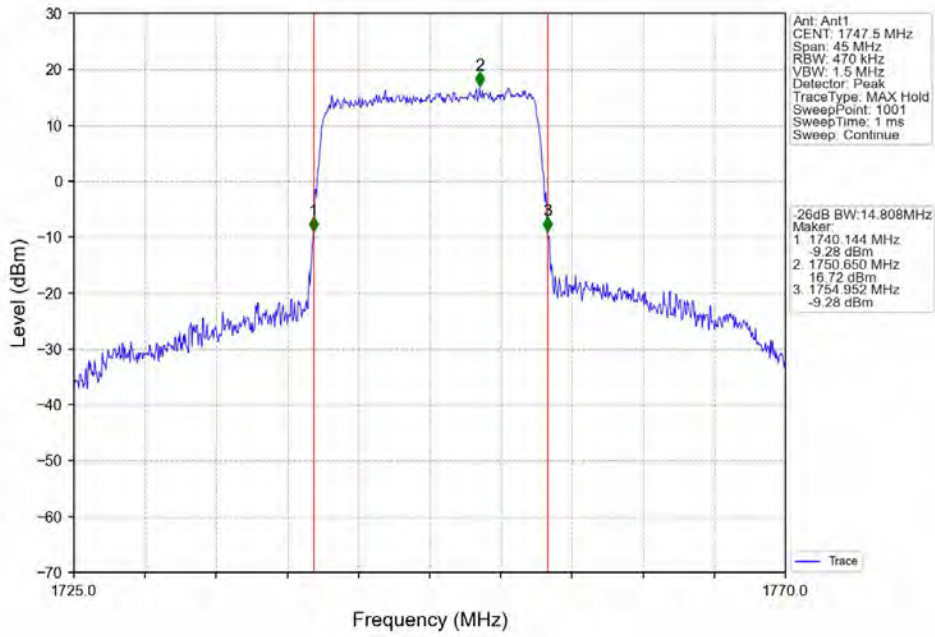
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



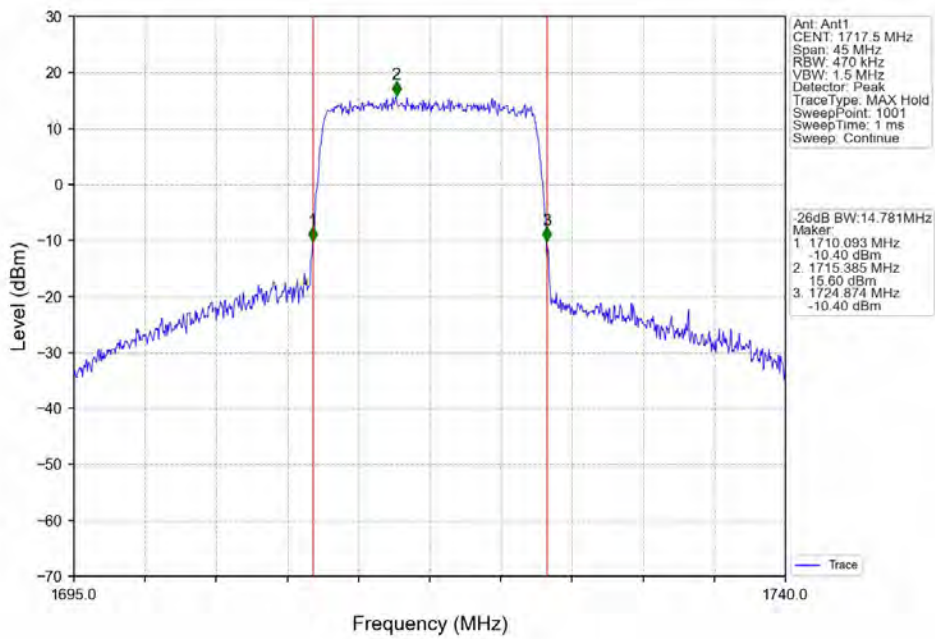
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



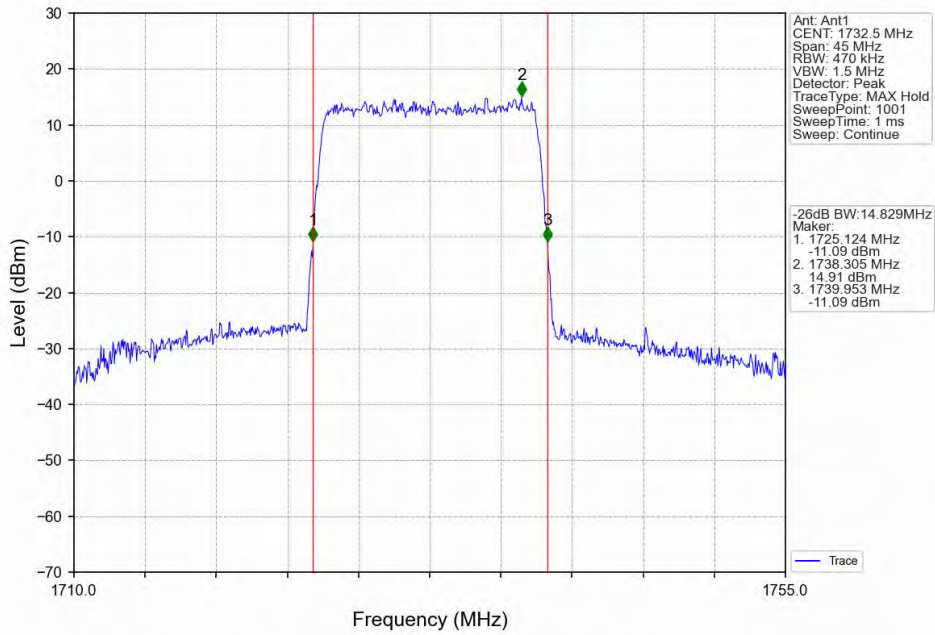
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



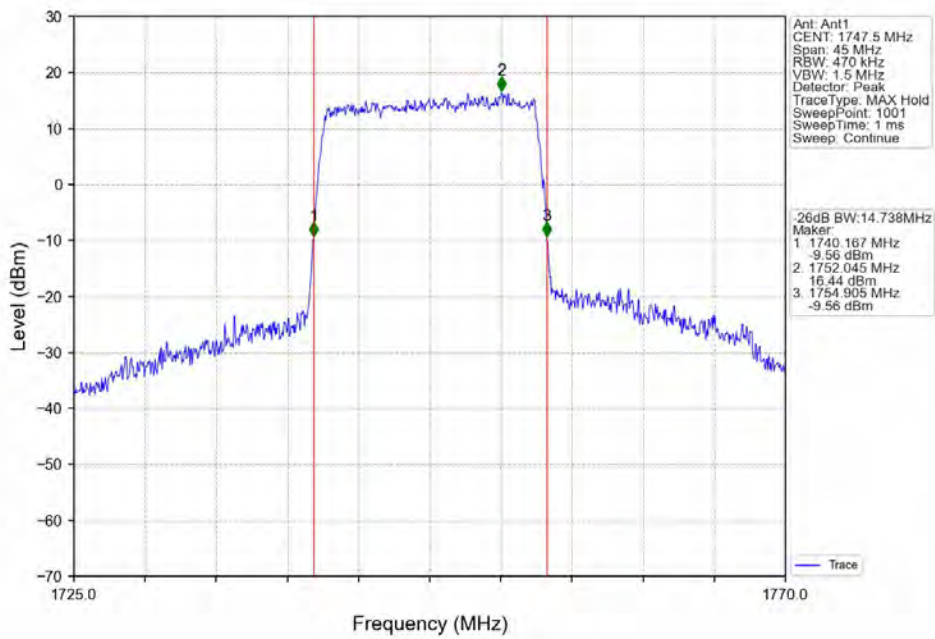
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



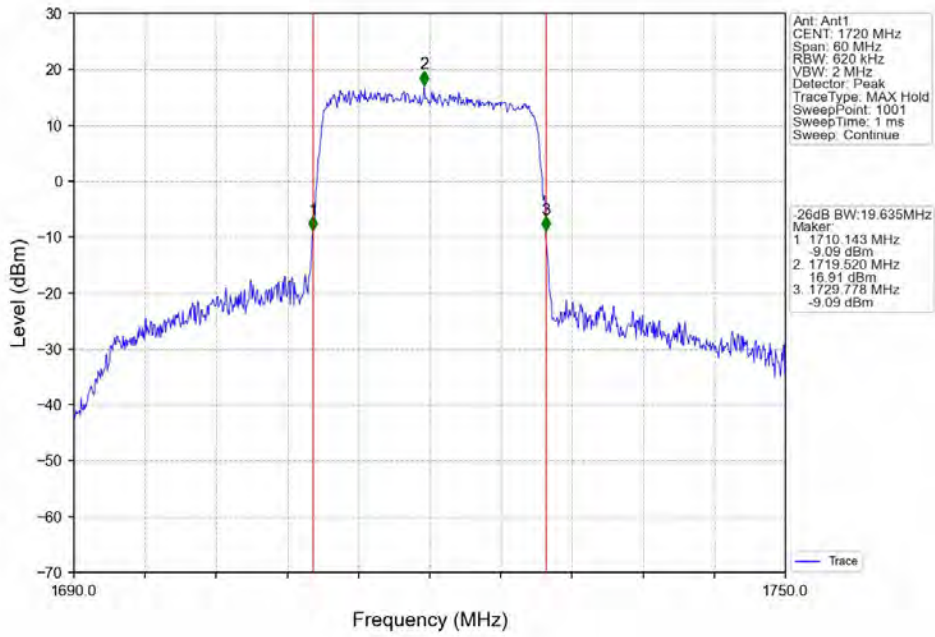
Band4 15MHz 16QAM MCH 1732.5MHz RB 75_0_NTNV



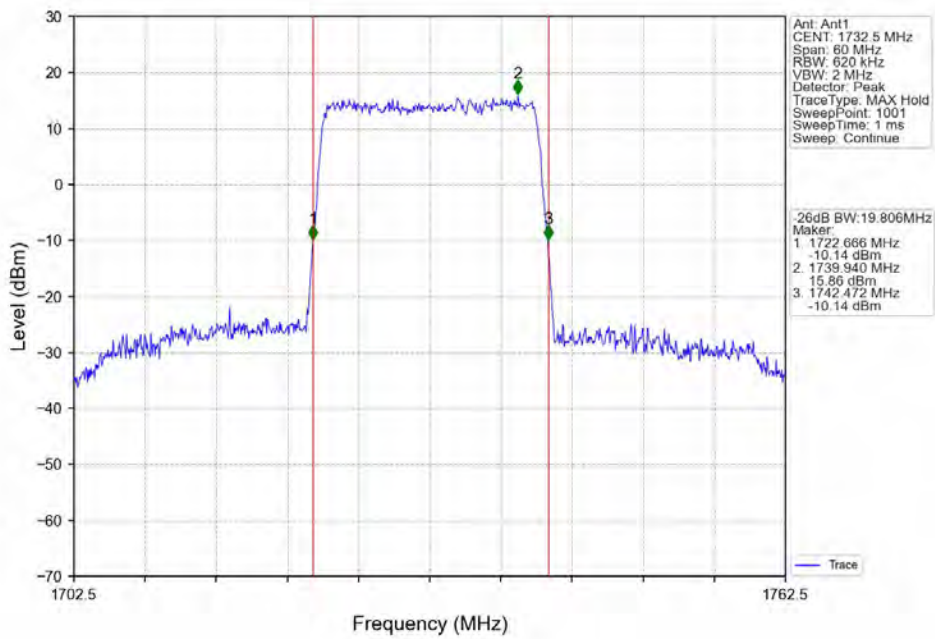
Band4 15MHz 16QAM HCH 1747.5MHz RB 75_0_NTNV



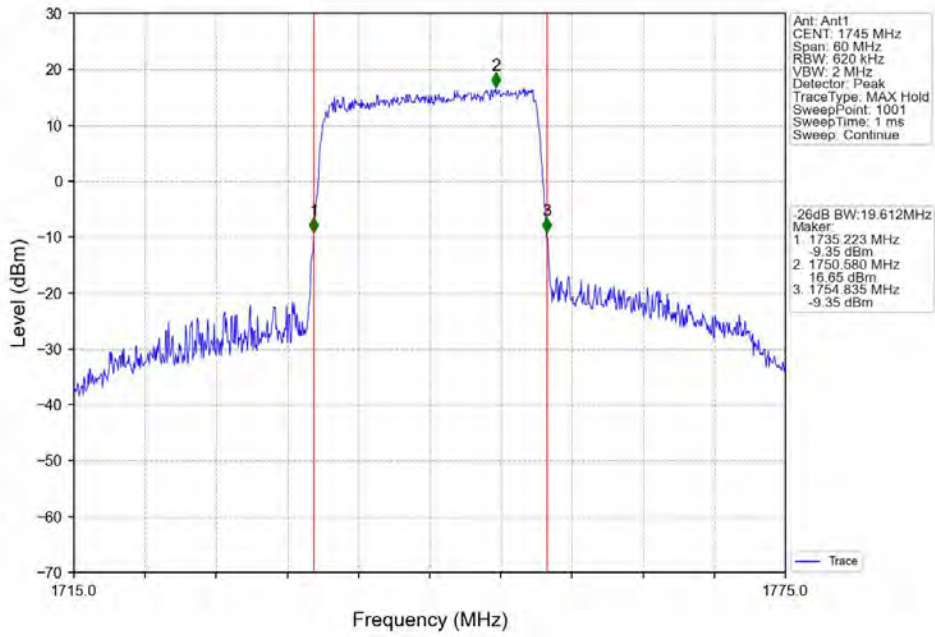
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



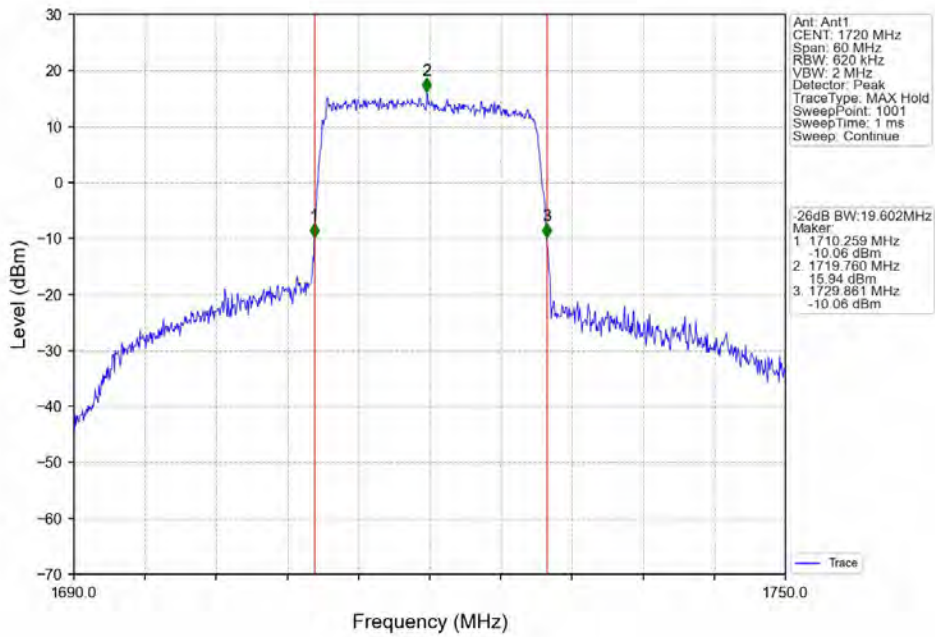
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



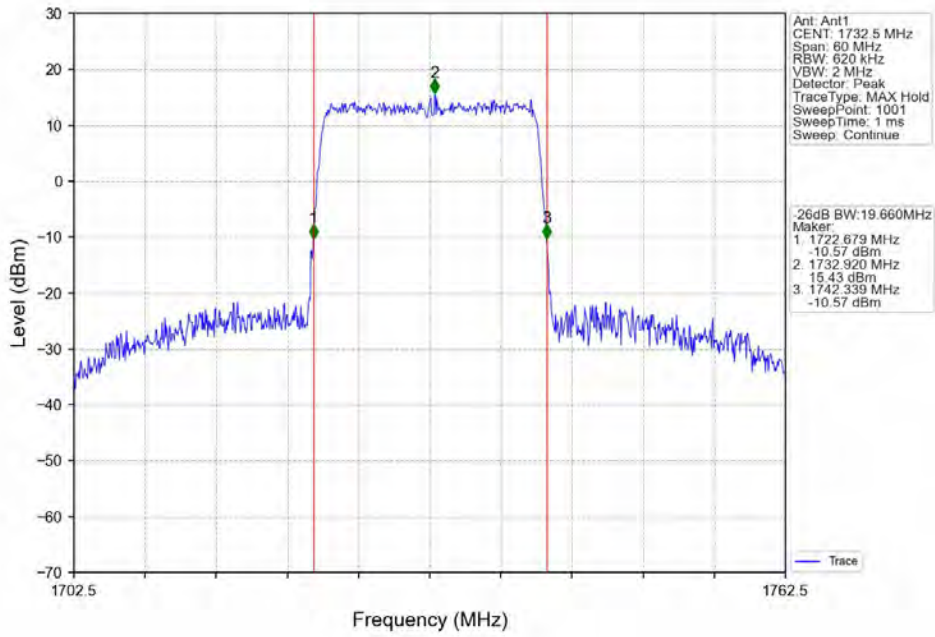
Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTV



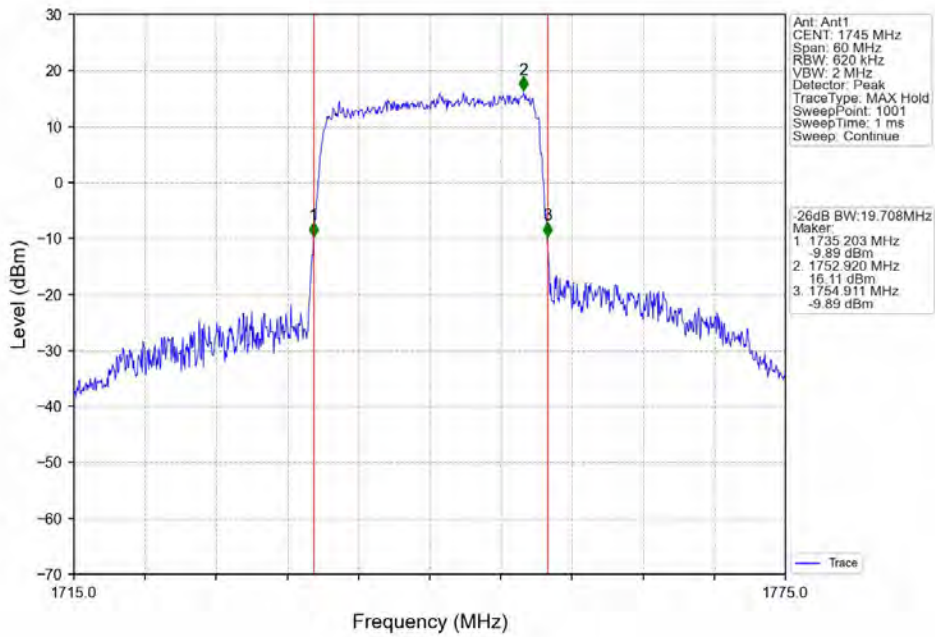
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



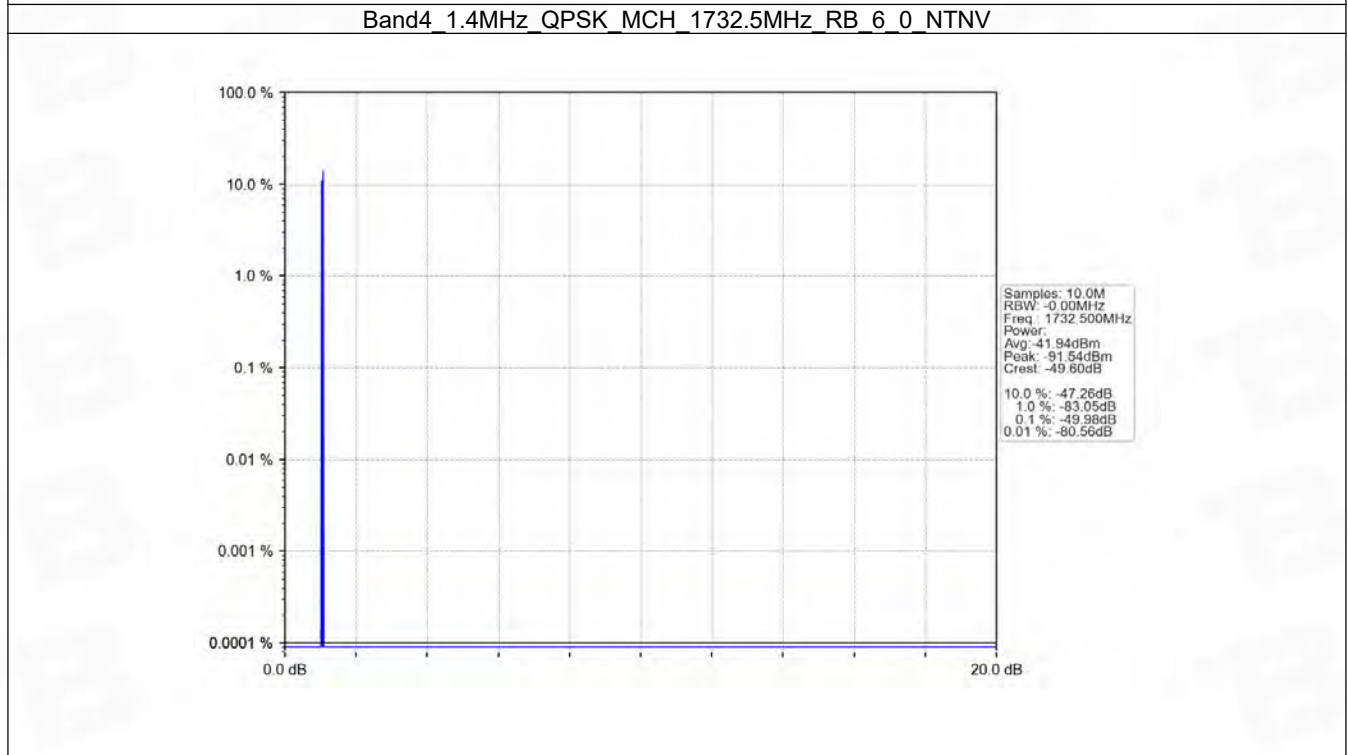
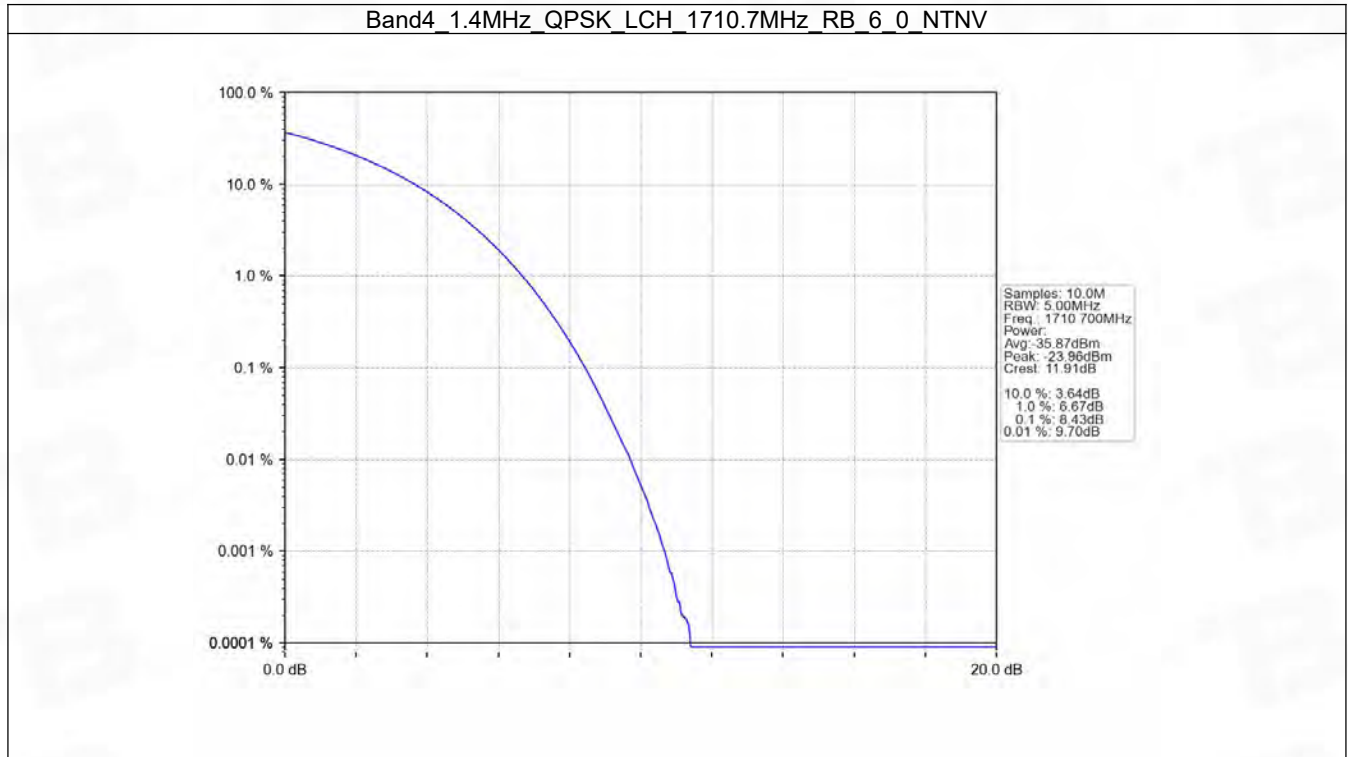
5. Peak-Average Ratio

5.1 B4_1.4MHz

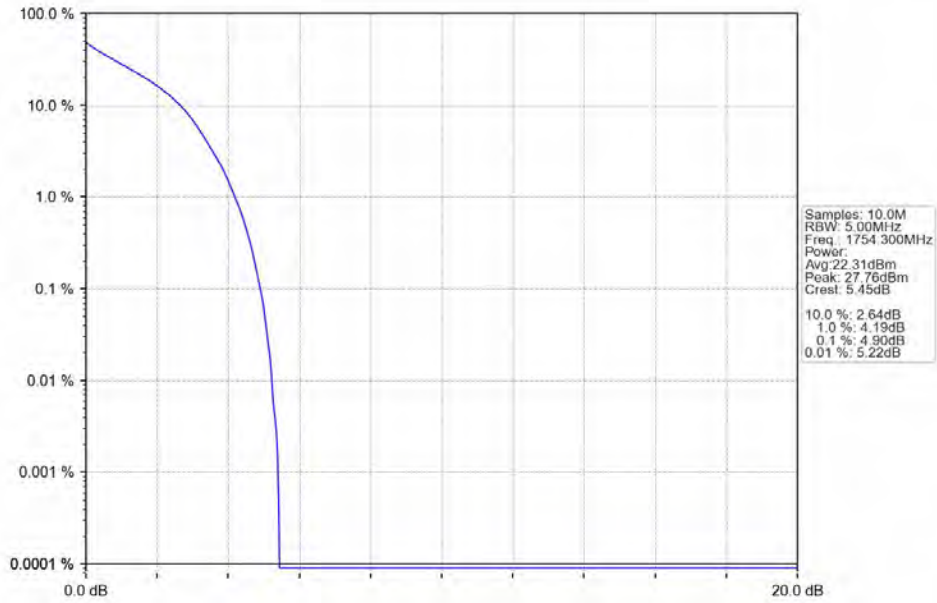
5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	8.43	<=13	Pass
	1732.5	6	0	-49.98	<=13	Pass
	1754.3	6	0	4.90	<=13	Pass
16QAM	1710.7	6	0	8.43	<=13	Pass
	1732.5	6	0	6.73	<=13	Pass
	1754.3	6	0	5.73	<=13	Pass

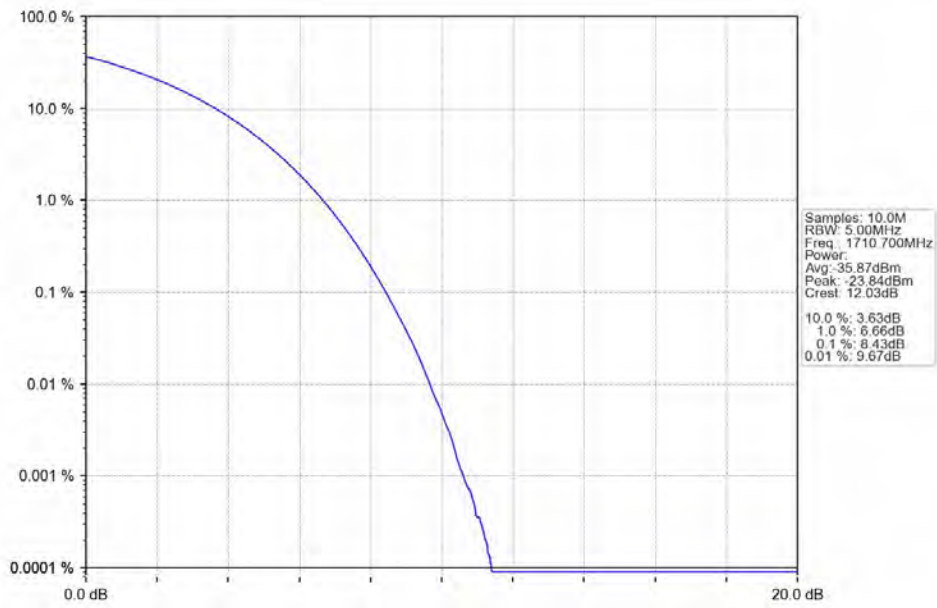
5.1.2 Test Graph



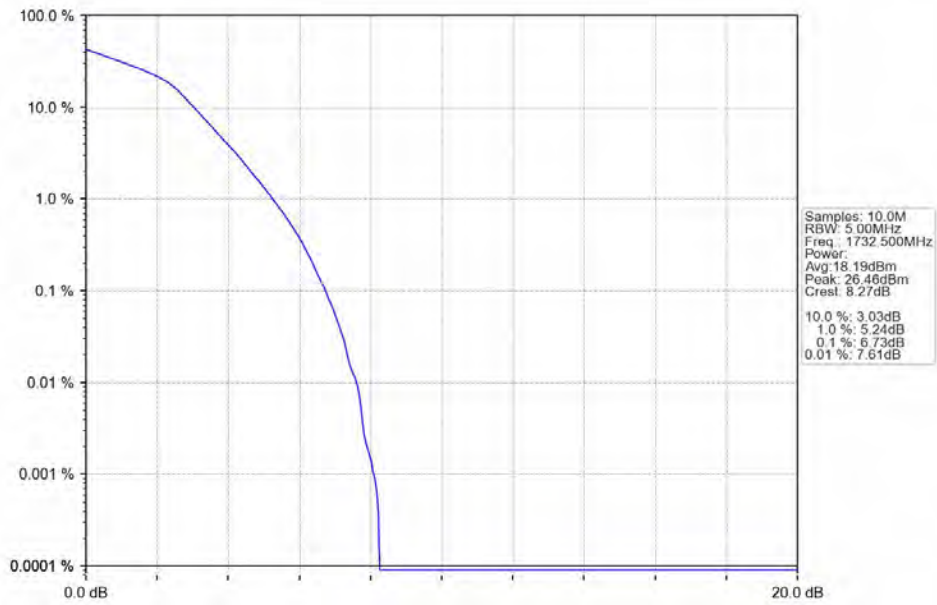
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



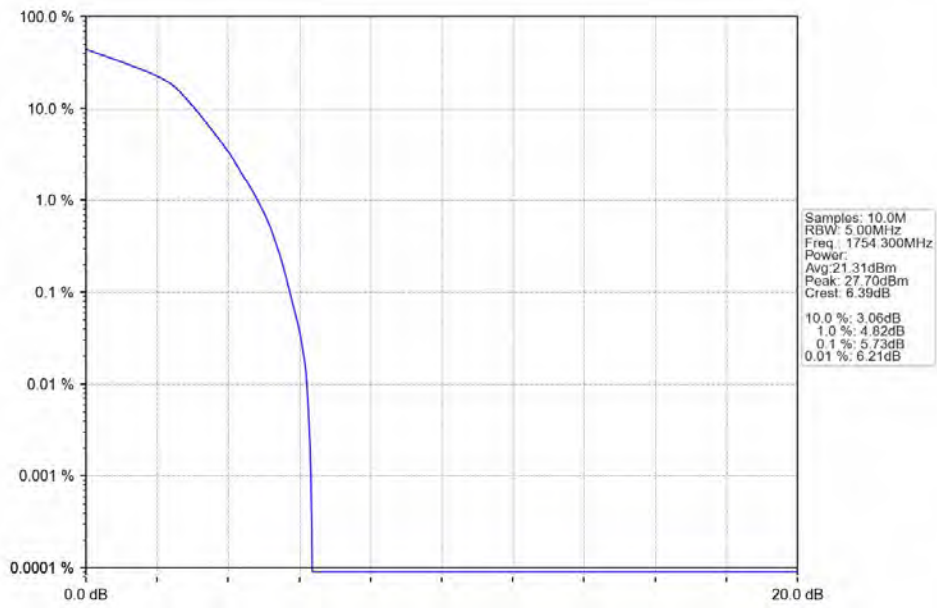
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV

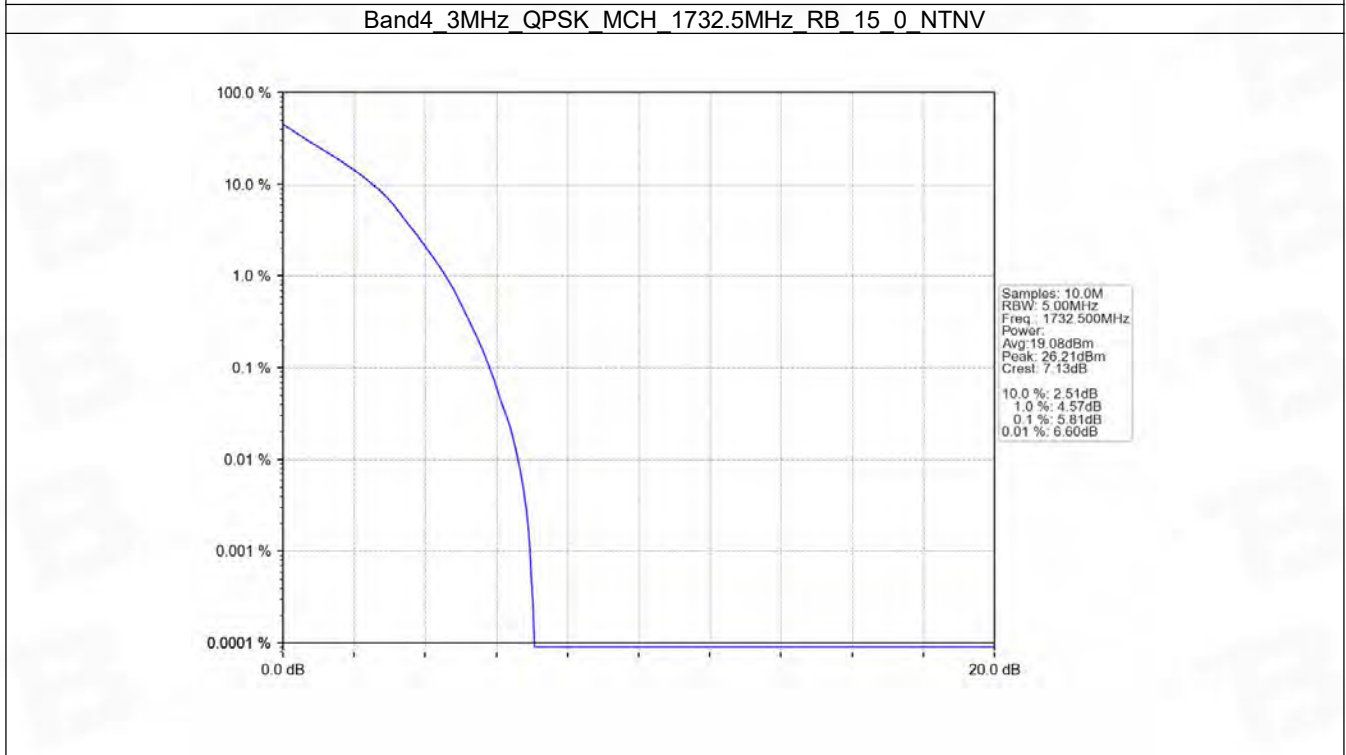
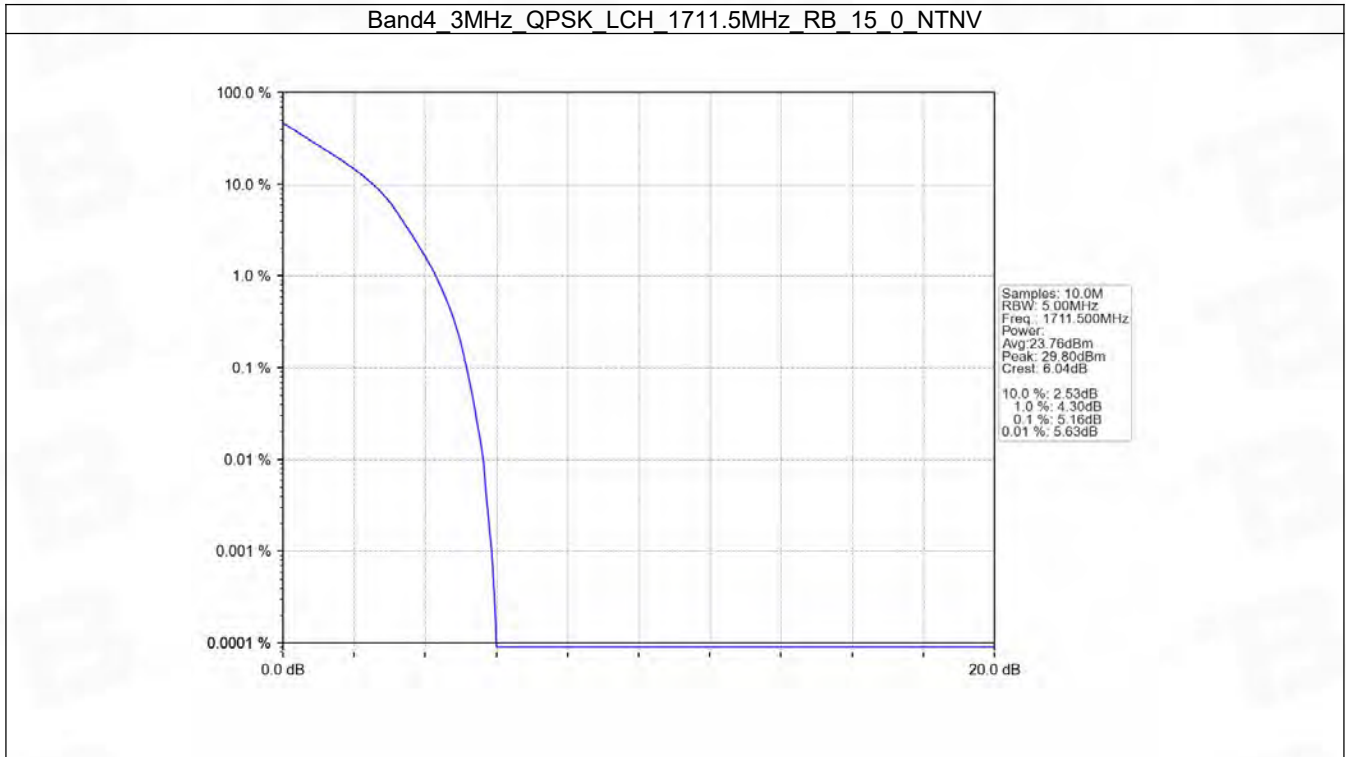


5.2 B4_3MHz

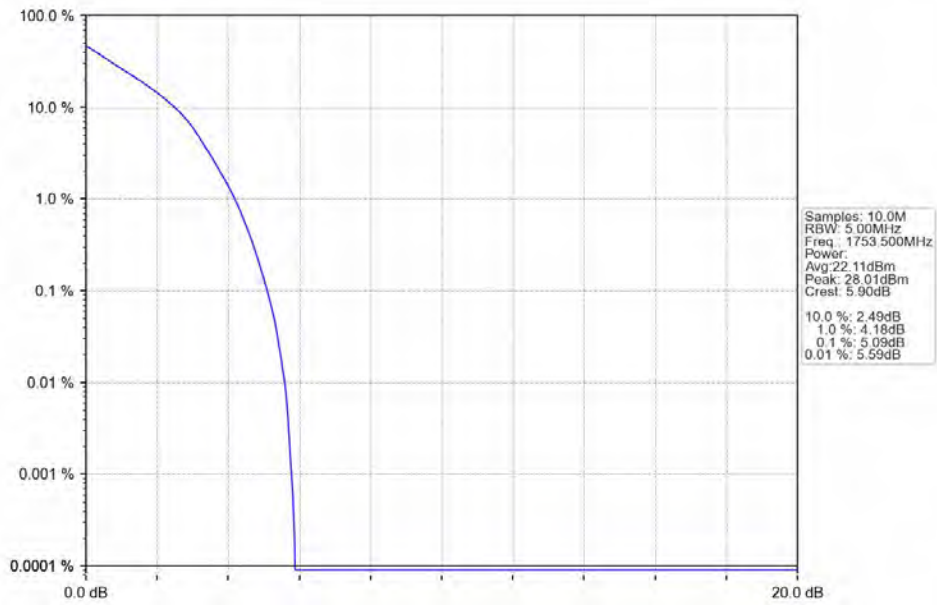
5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.16	<=13	Pass
	1732.5	15	0	5.81	<=13	Pass
	1753.5	15	0	5.09	<=13	Pass
16QAM	1711.5	15	0	6.01	<=13	Pass
	1732.5	15	0	6.68	<=13	Pass
	1753.5	15	0	5.95	<=13	Pass

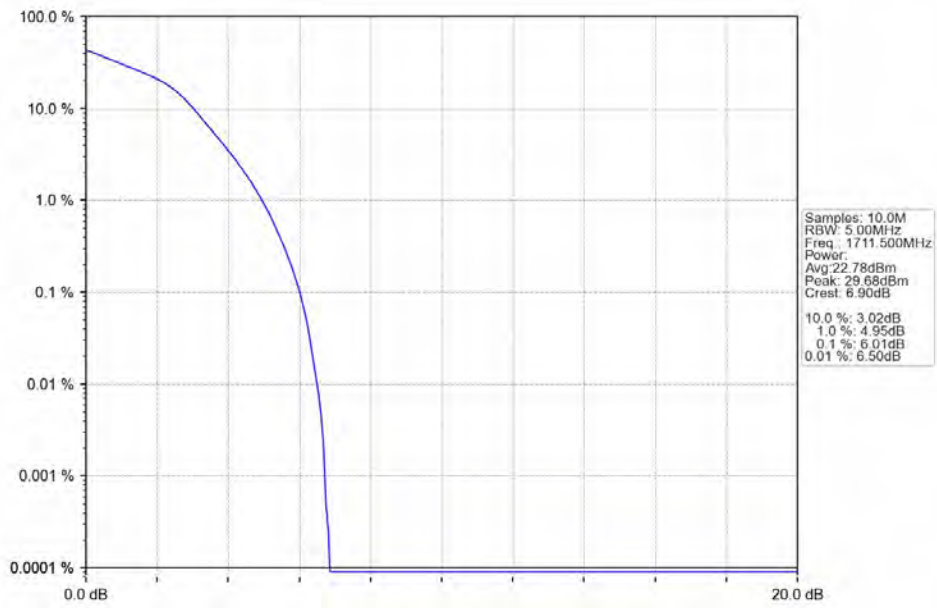
5.2.2 Test Graph



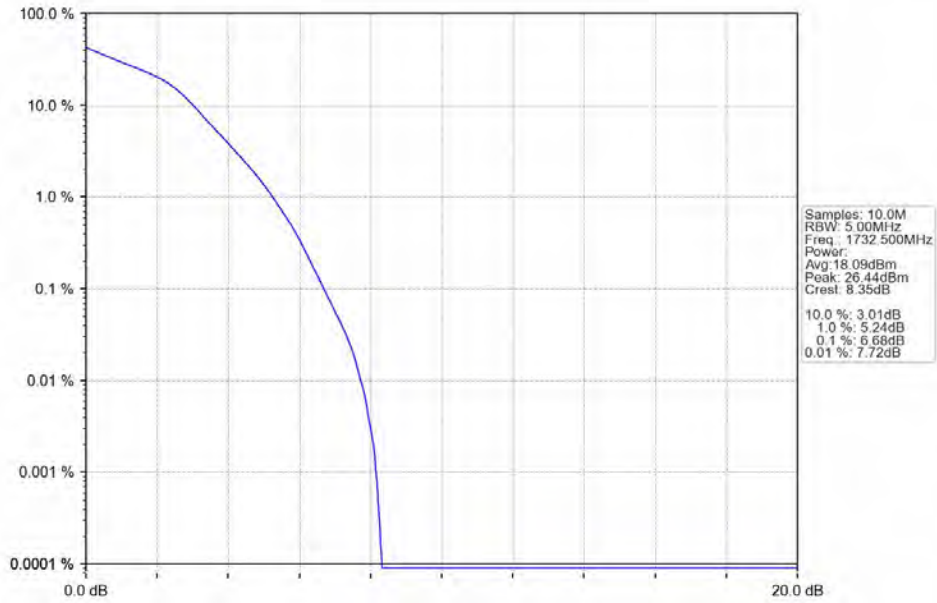
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



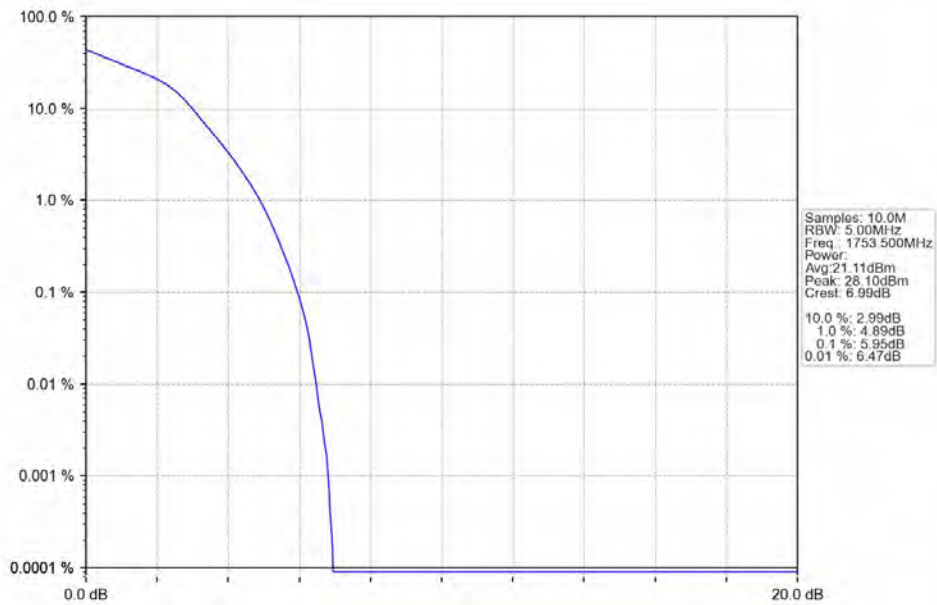
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV

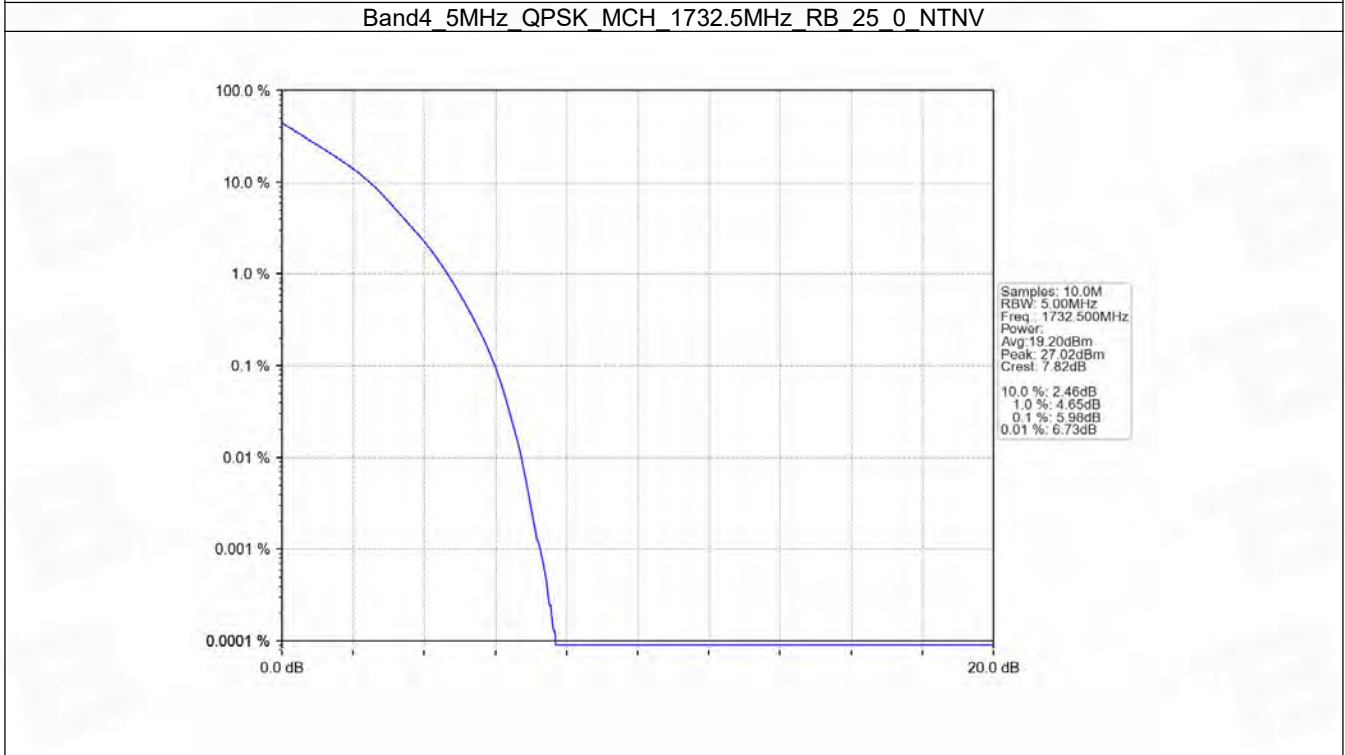
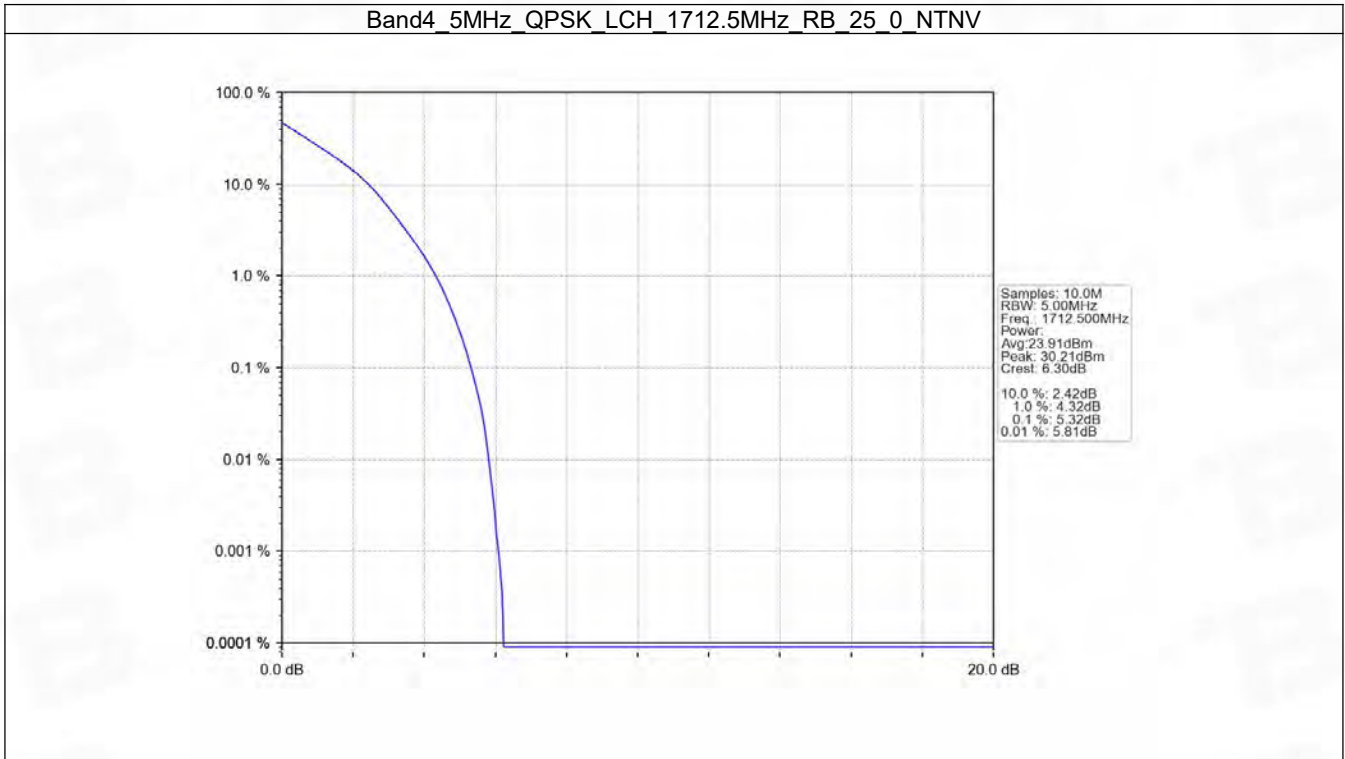


5.3 B4_5MHz

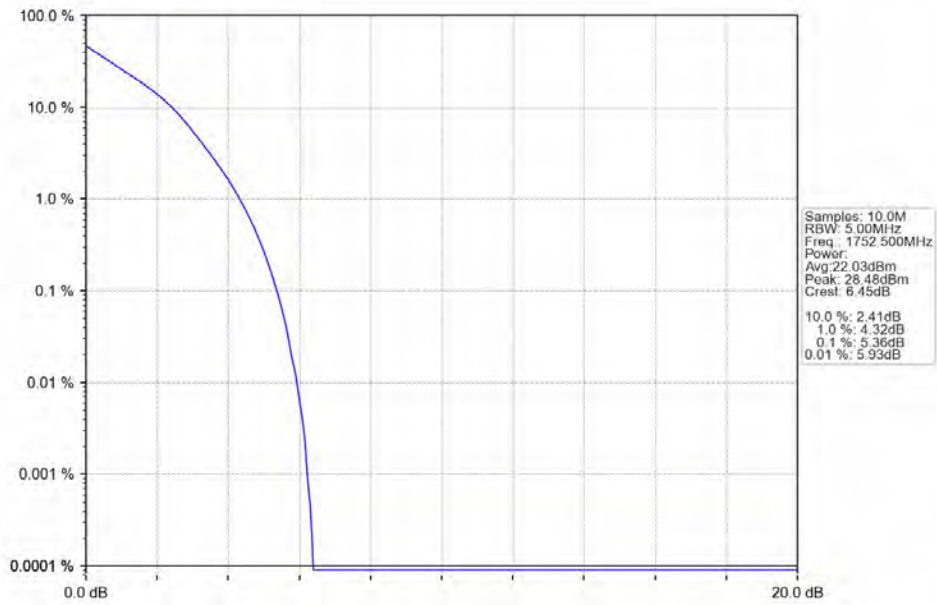
5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.32	<=13	Pass
	1732.5	25	0	5.98	<=13	Pass
	1752.5	25	0	5.36	<=13	Pass
16QAM	1712.5	25	0	6.04	<=13	Pass
	1732.5	25	0	6.69	<=13	Pass
	1752.5	25	0	6.08	<=13	Pass

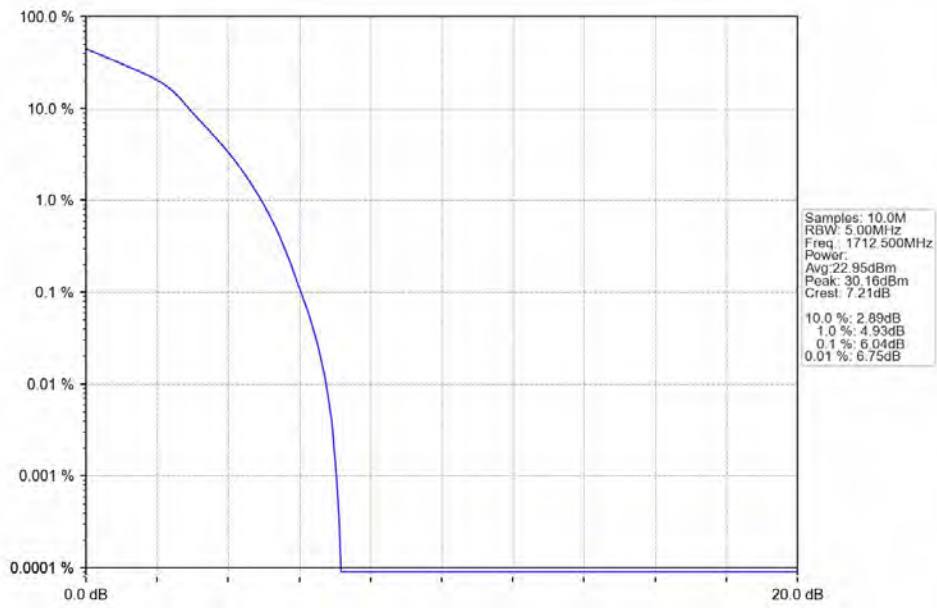
5.3.2 Test Graph



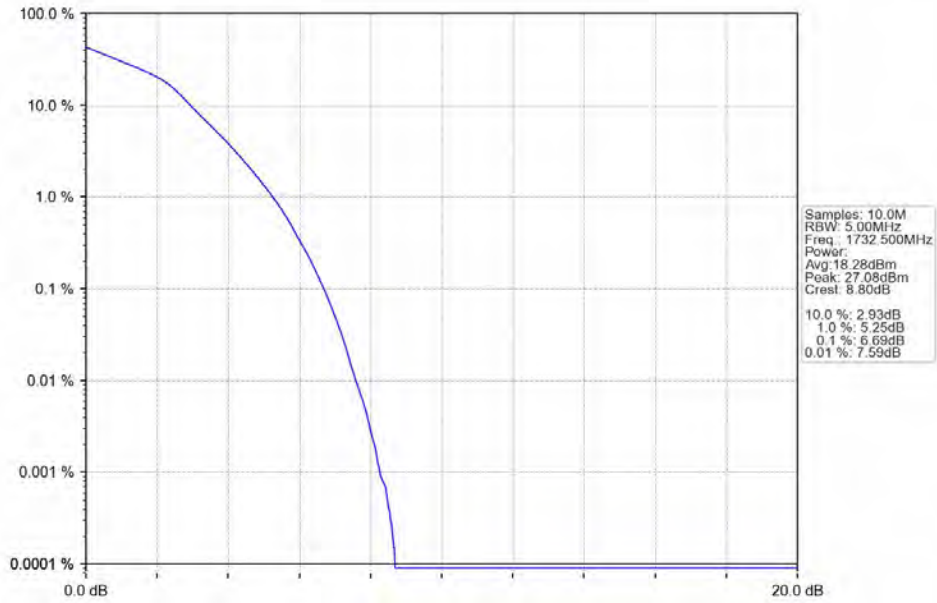
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



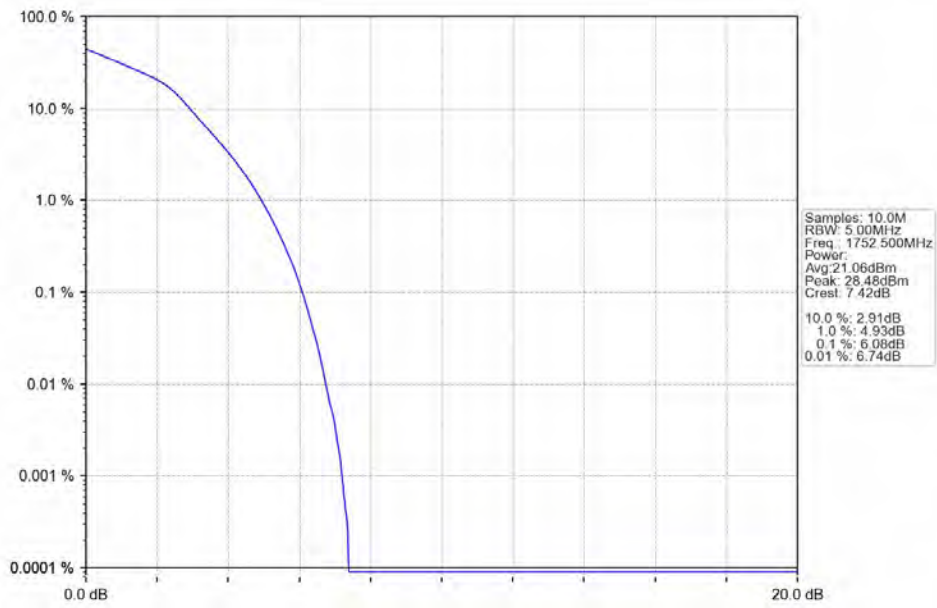
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

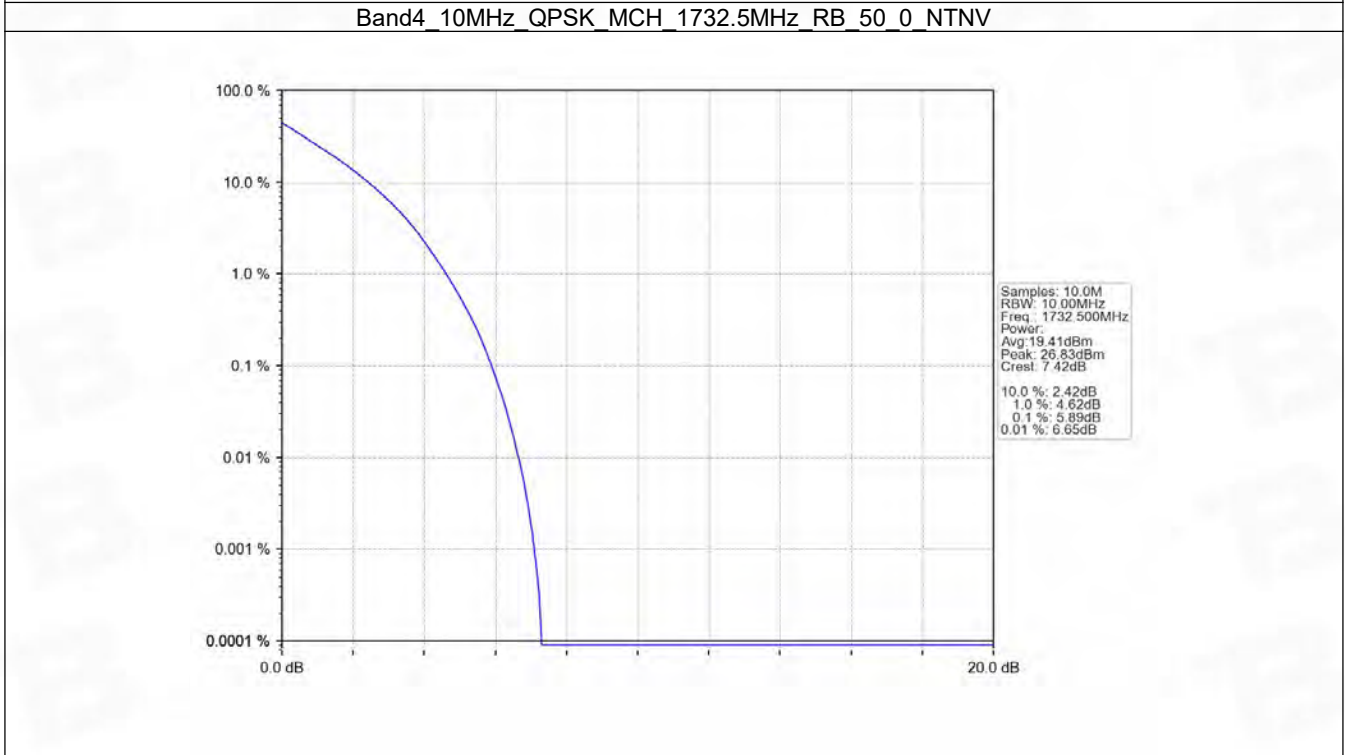
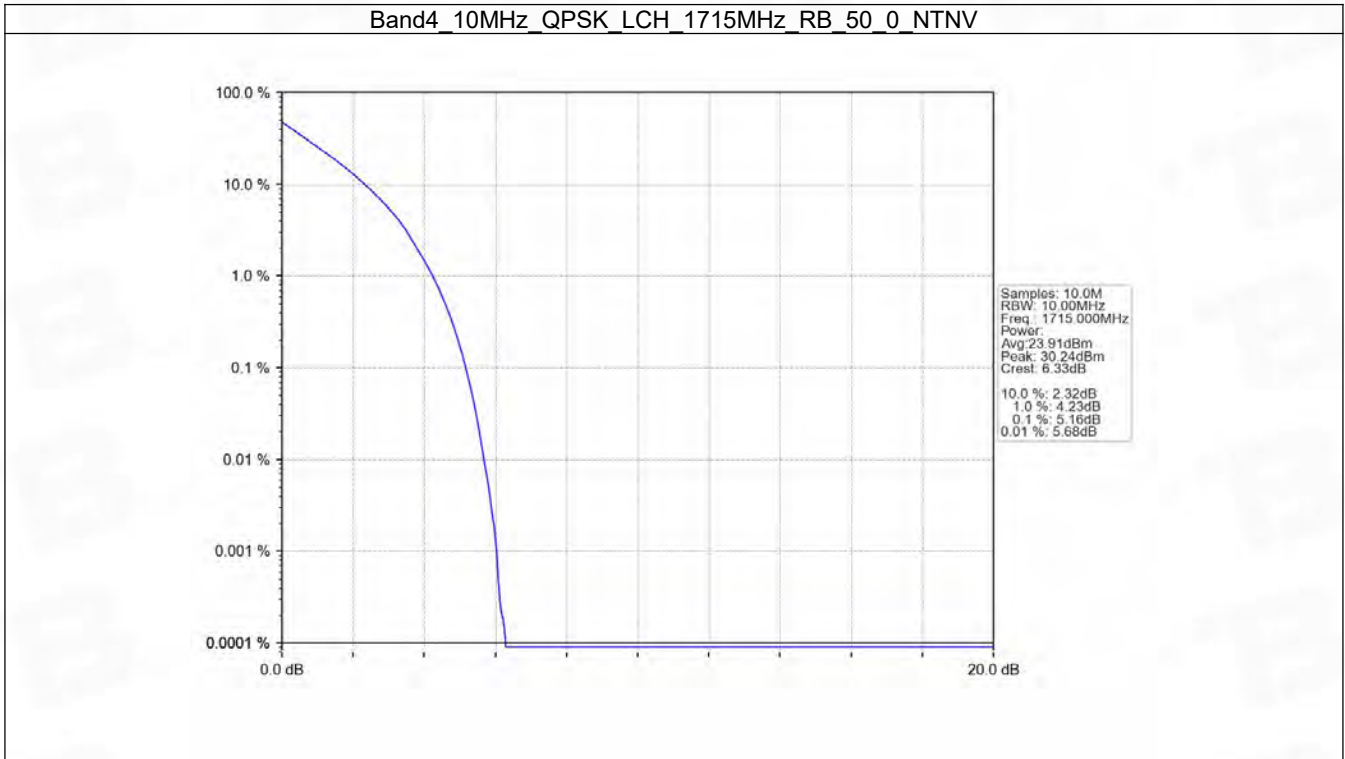


5.4 B4_10MHz

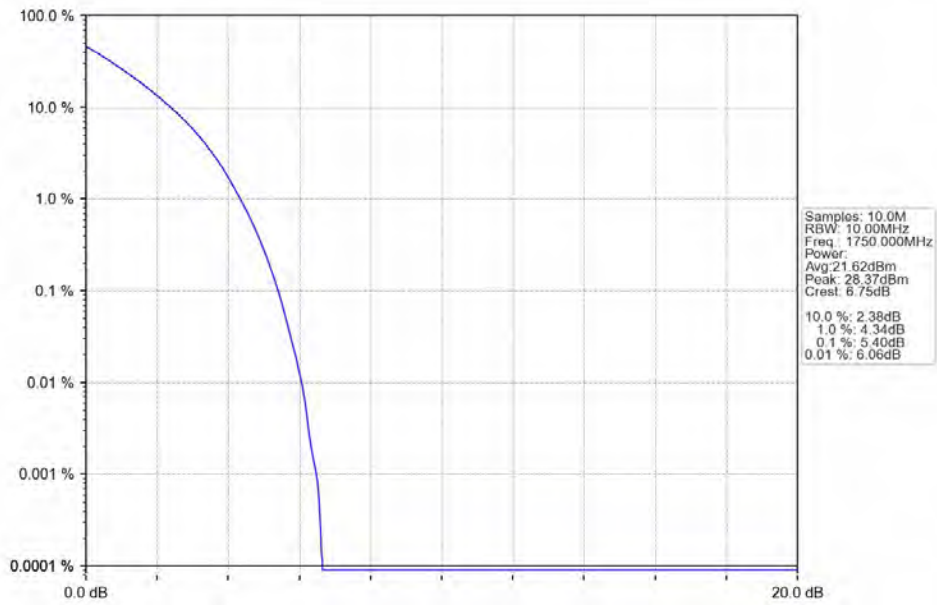
5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.16	<=13	Pass
	1732.5	50	0	5.89	<=13	Pass
	1750	50	0	5.40	<=13	Pass
16QAM	1715	50	0	6.00	<=13	Pass
	1732.5	50	0	6.67	<=13	Pass
	1750	50	0	6.18	<=13	Pass

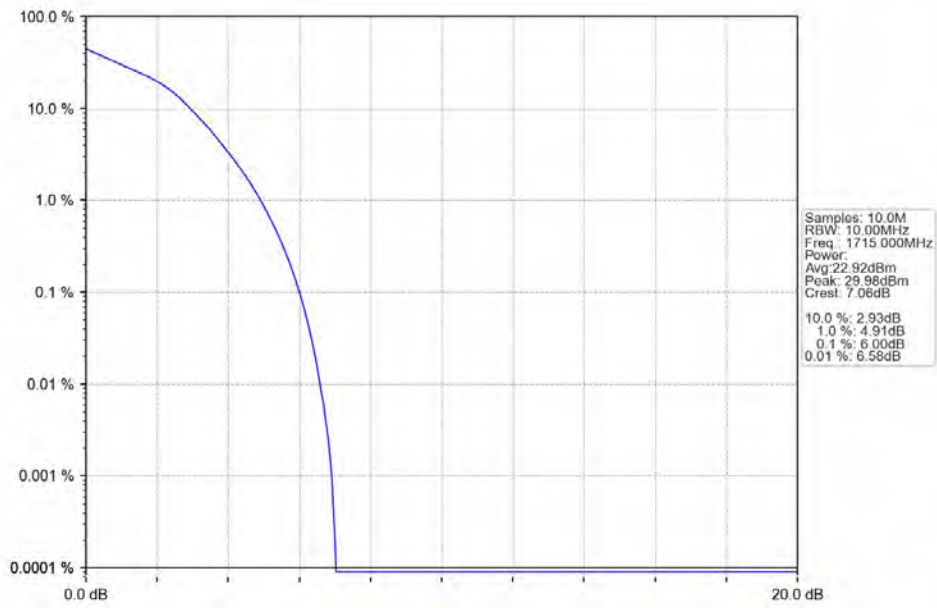
5.4.2 Test Graph



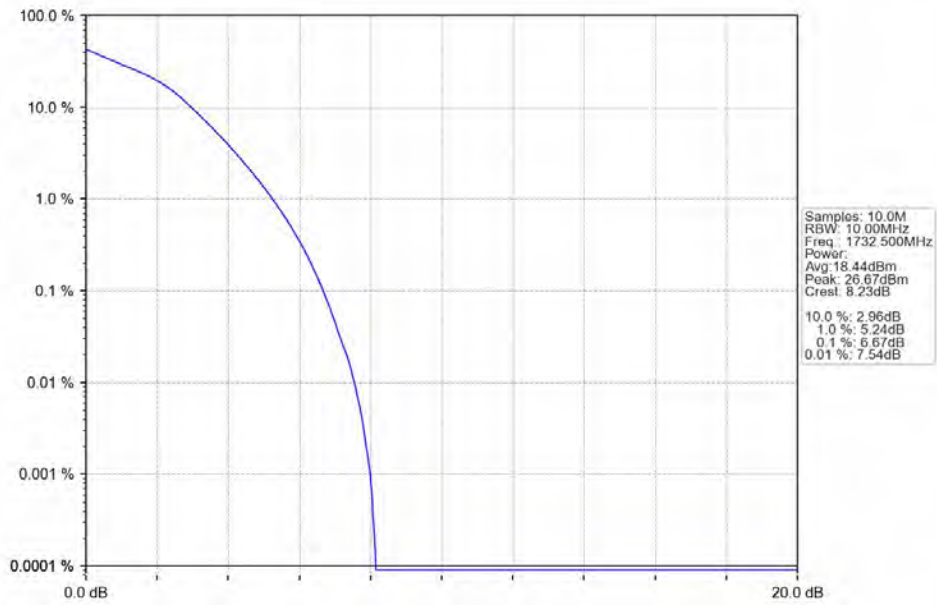
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



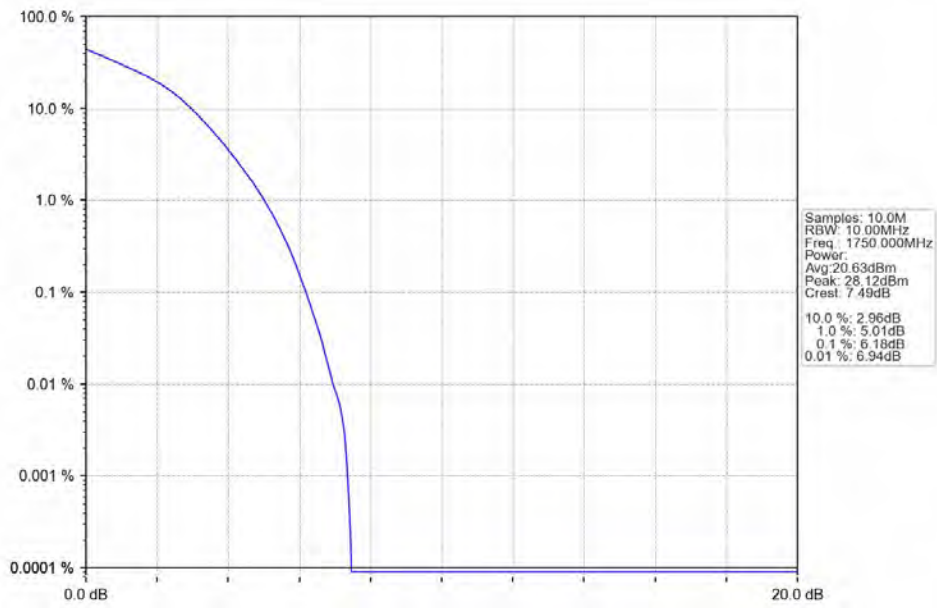
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

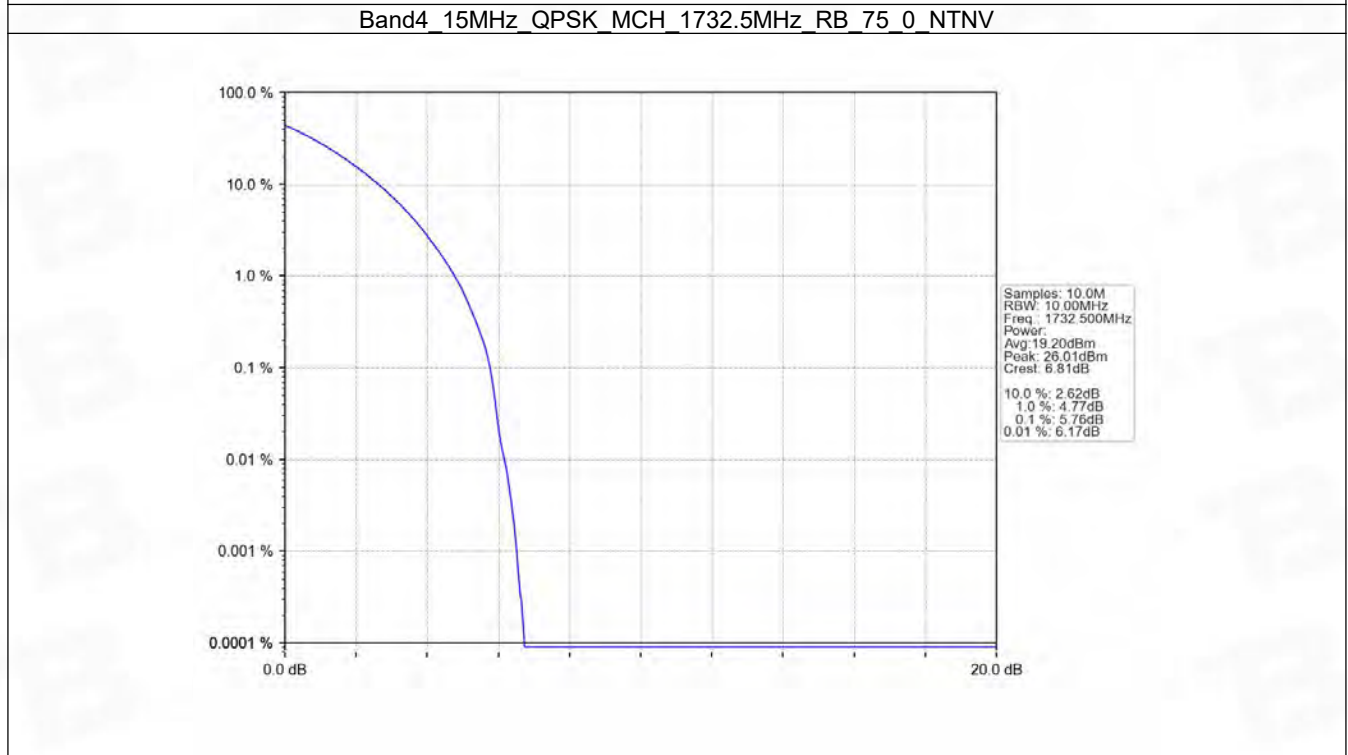
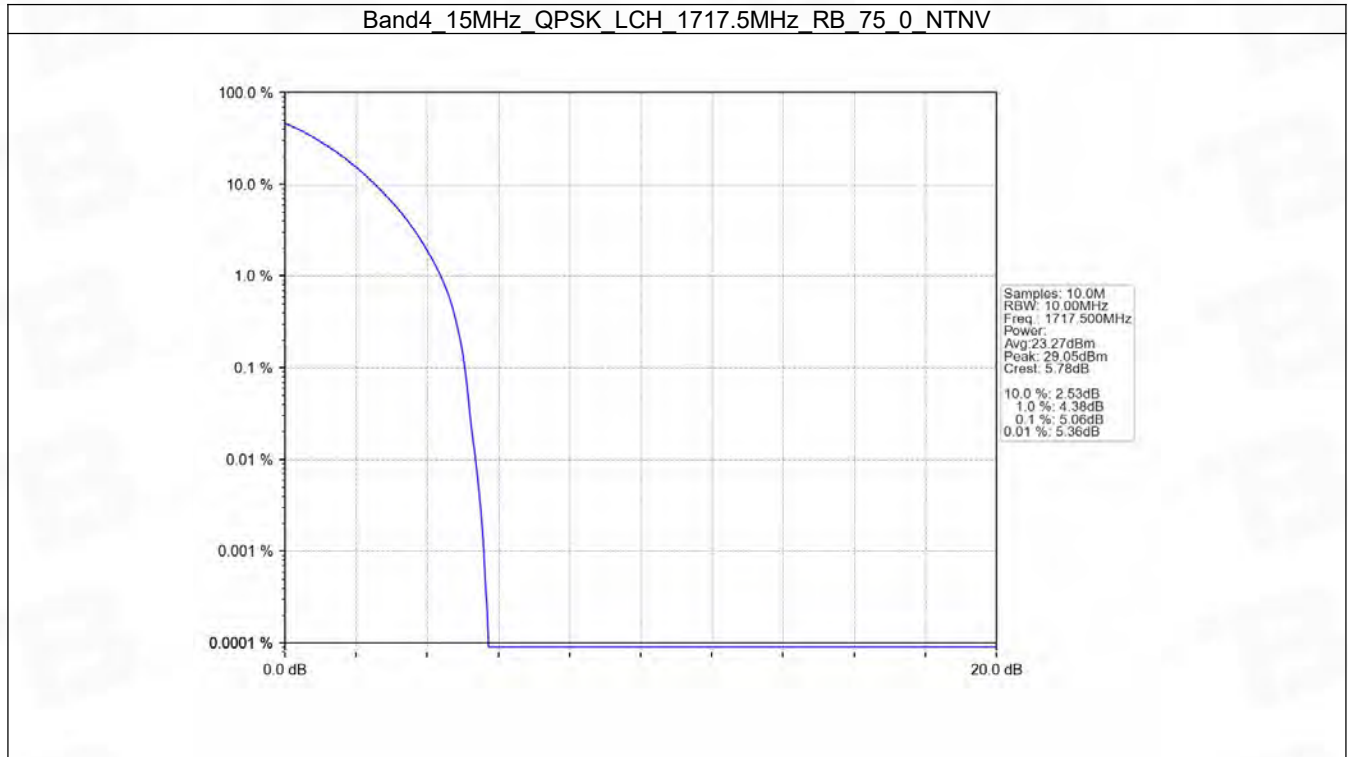


5.5 B4_15MHz

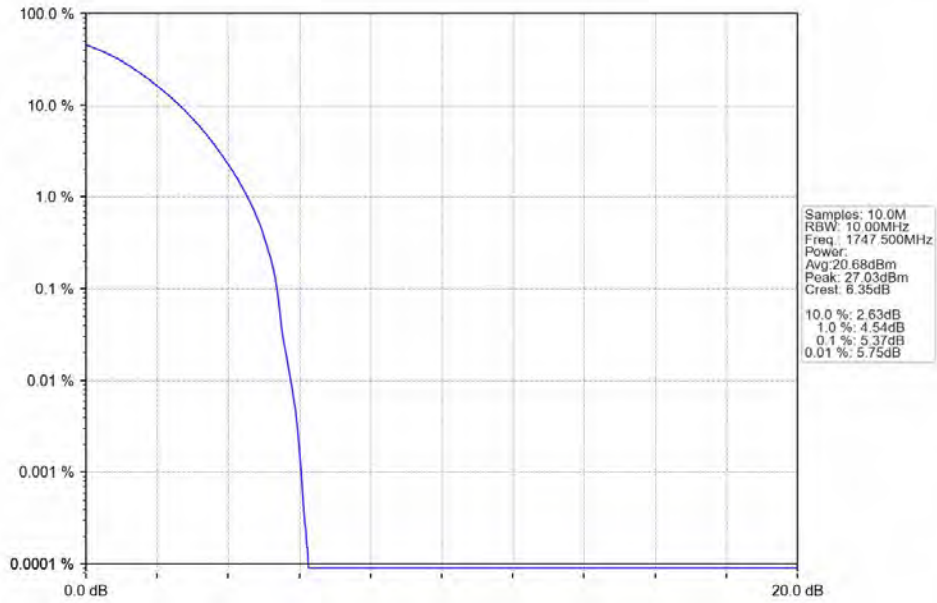
5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.06	<=13	Pass
	1732.5	75	0	5.76	<=13	Pass
	1747.5	75	0	5.37	<=13	Pass
16QAM	1717.5	75	0	5.96	<=13	Pass
	1732.5	75	0	6.43	<=13	Pass
	1747.5	75	0	6.18	<=13	Pass

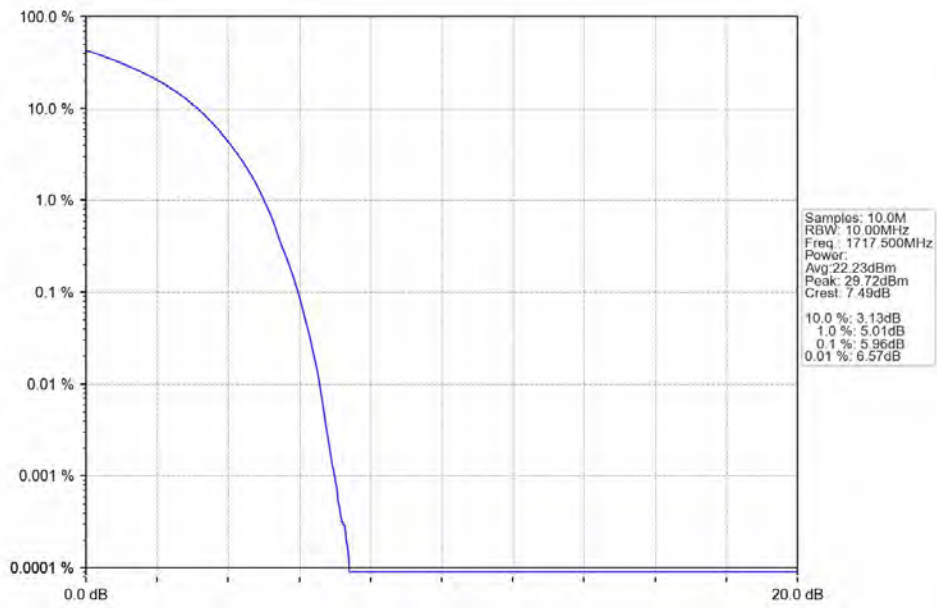
5.5.2 Test Graph



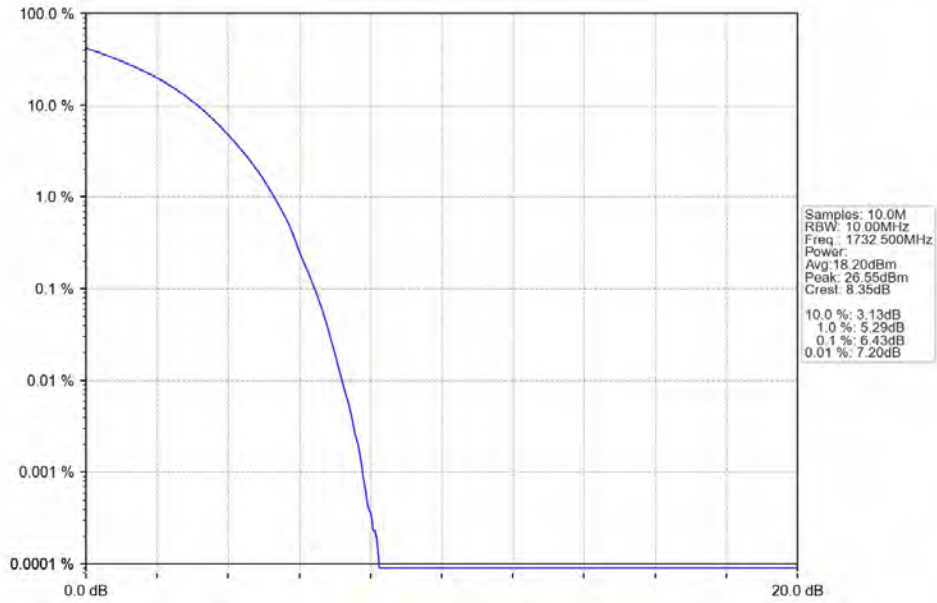
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



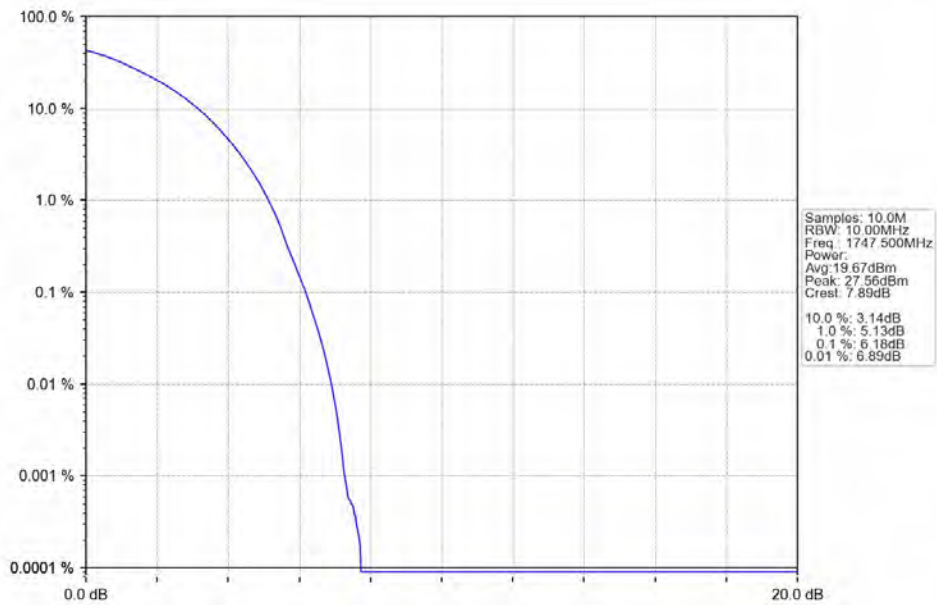
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



Band4 15MHz 16QAM MCH 1732.5MHz RB 75_0 NTN



Band4 15MHz 16QAM HCH 1747.5MHz RB 75_0 NTN

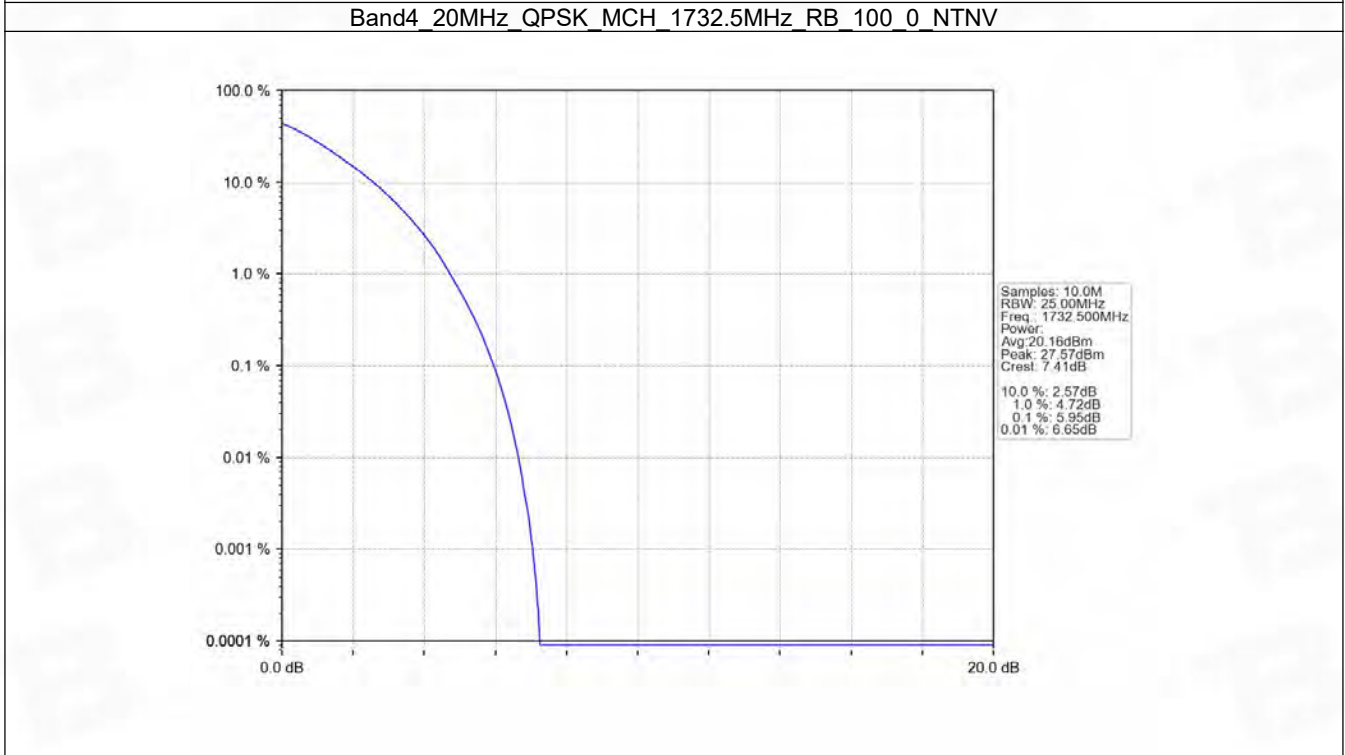
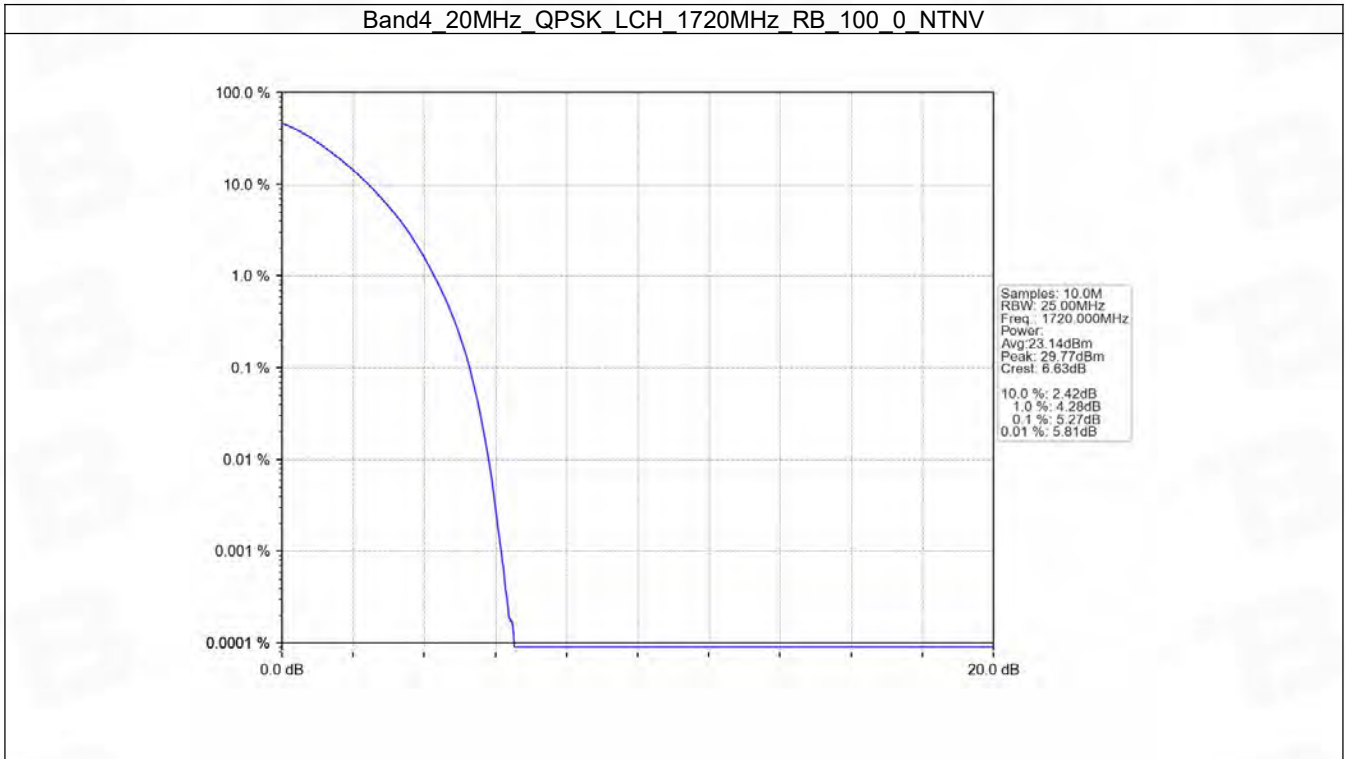


5.6 B4_20MHz

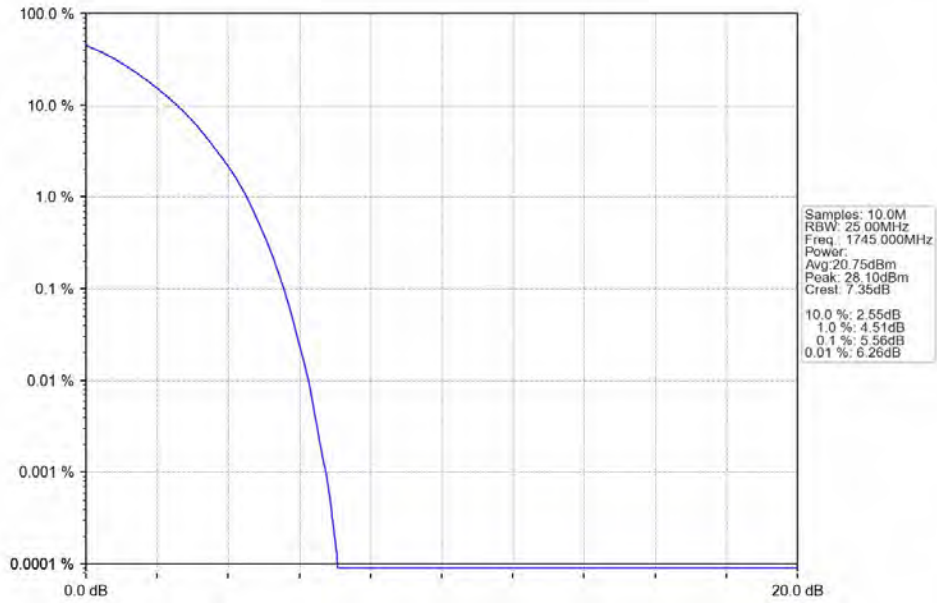
5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.27	<=13	Pass
	1732.5	100	0	5.95	<=13	Pass
	1745	100	0	5.56	<=13	Pass
16QAM	1720	100	0	6.10	<=13	Pass
	1732.5	100	0	6.69	<=13	Pass
	1745	100	0	6.38	<=13	Pass

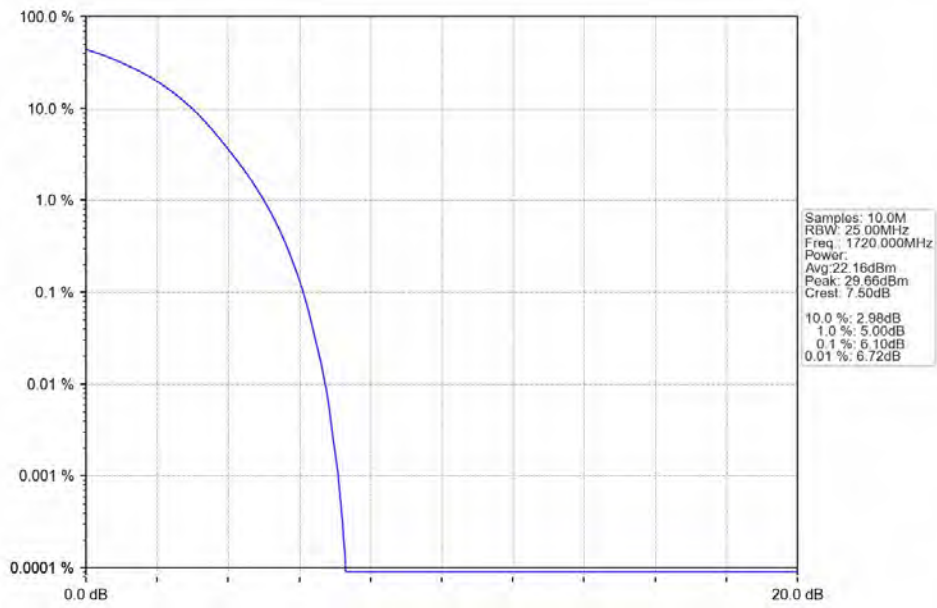
5.6.2 Test Graph



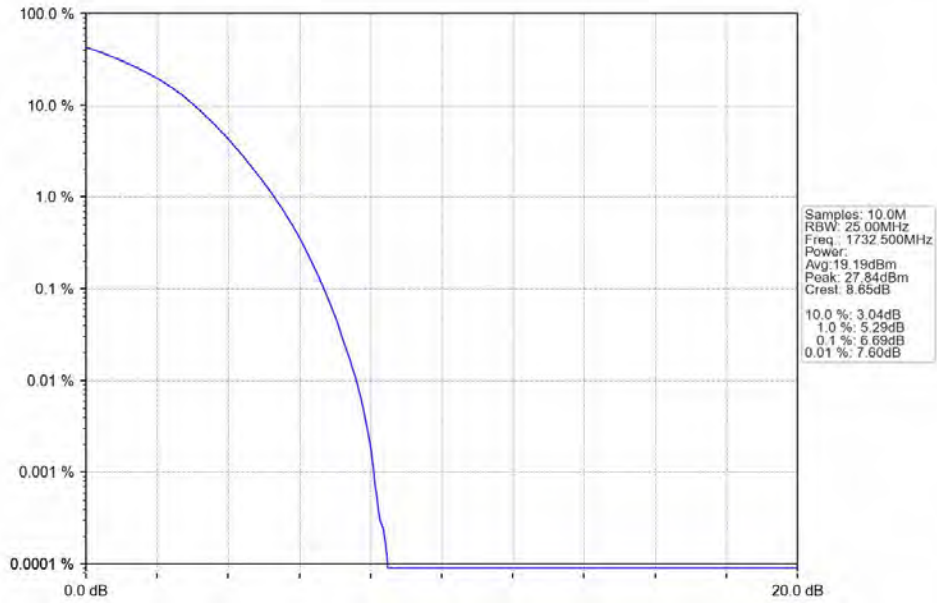
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



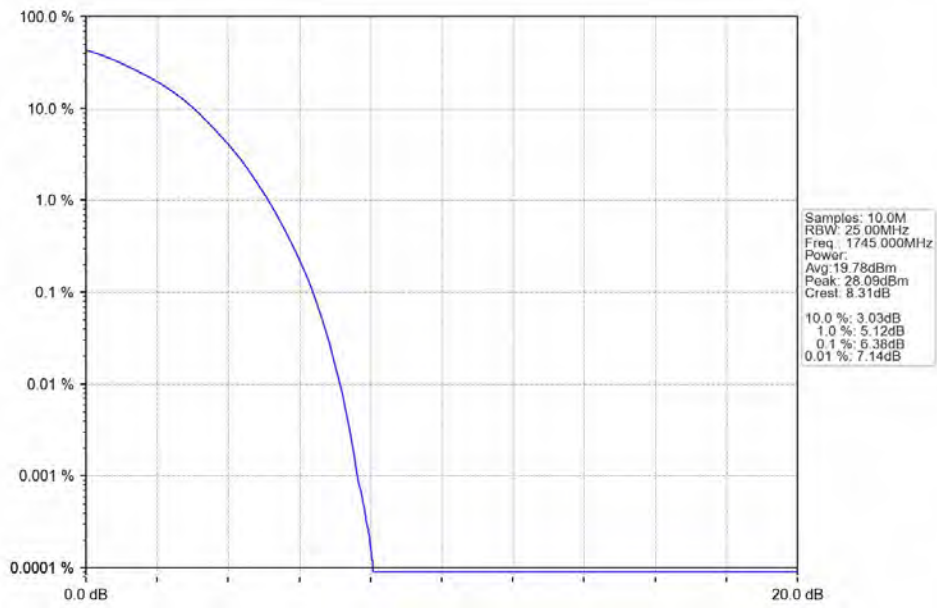
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



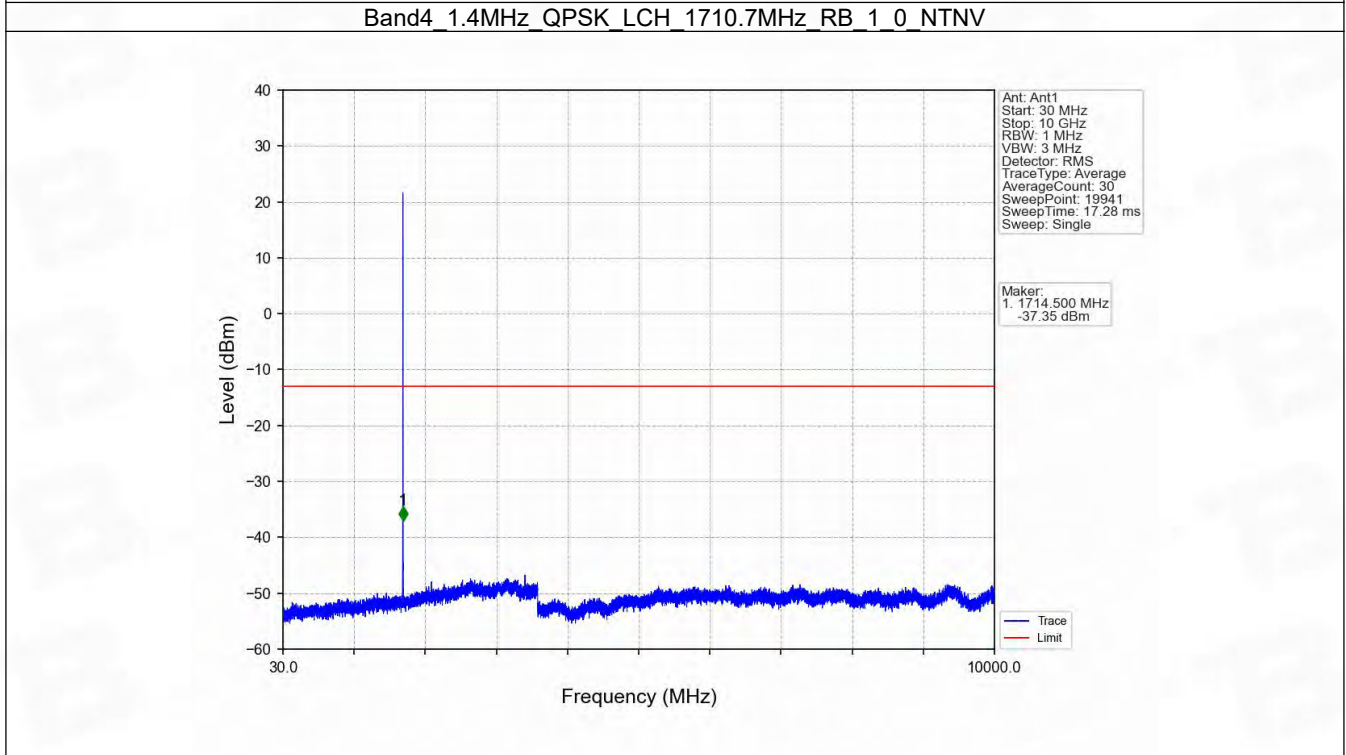
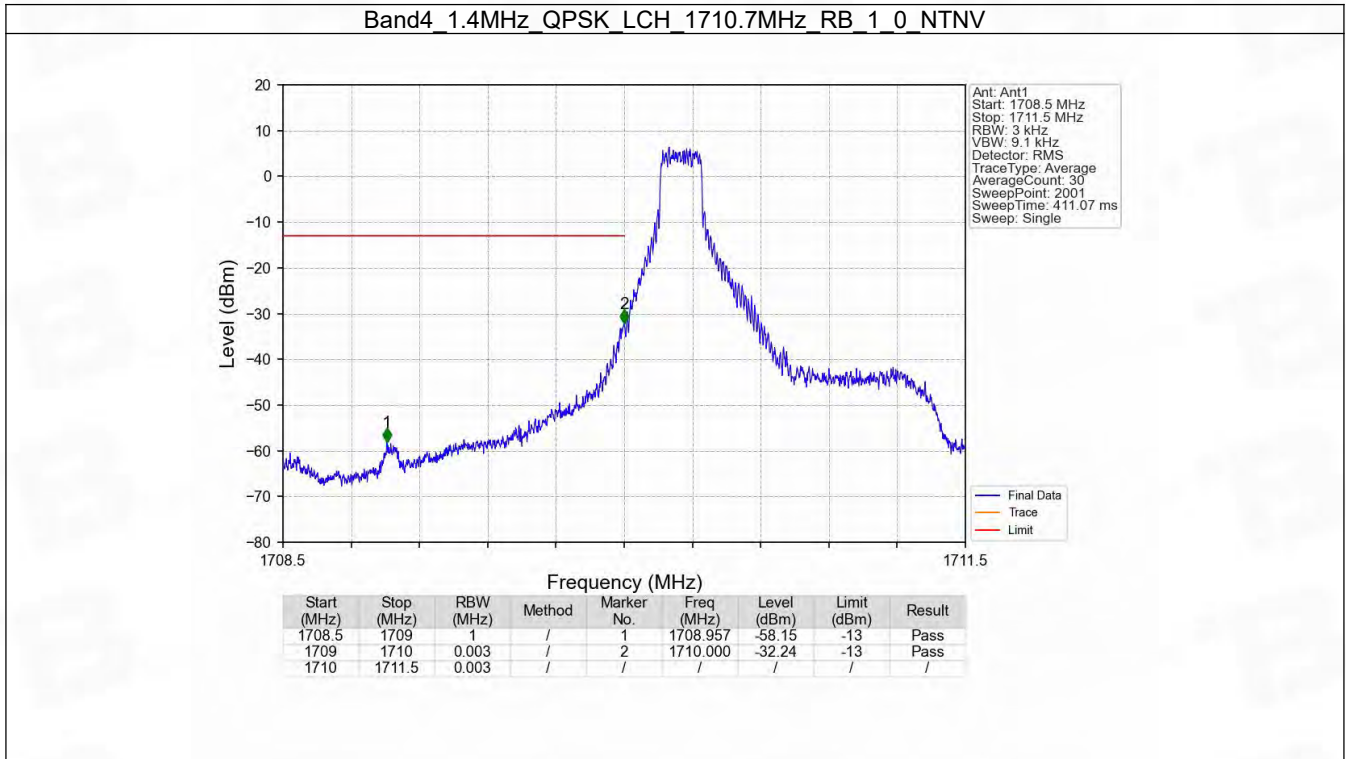
6. Spurious Emission

6.1 B4_1.4MHz

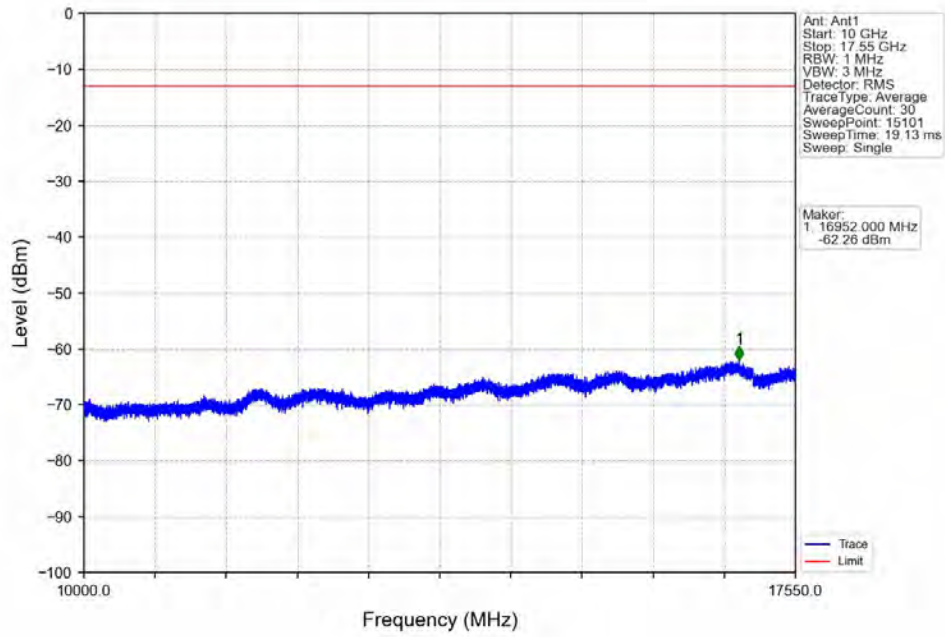
6.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

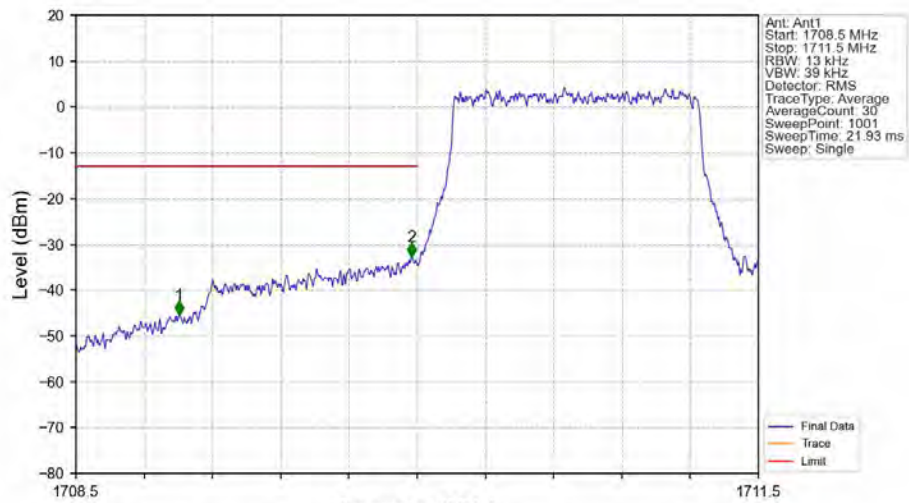
6.1.2 Test Graph



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

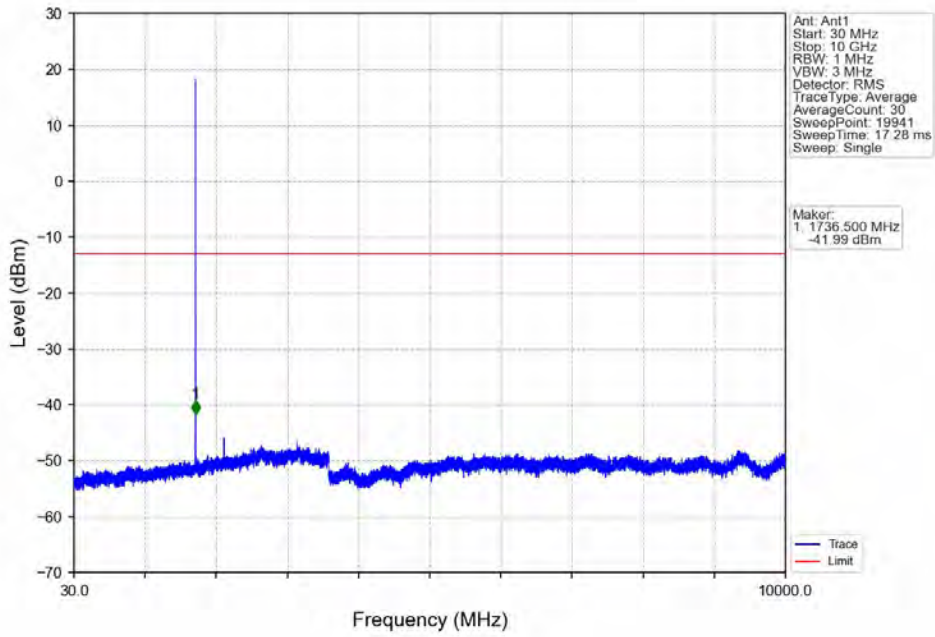


Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

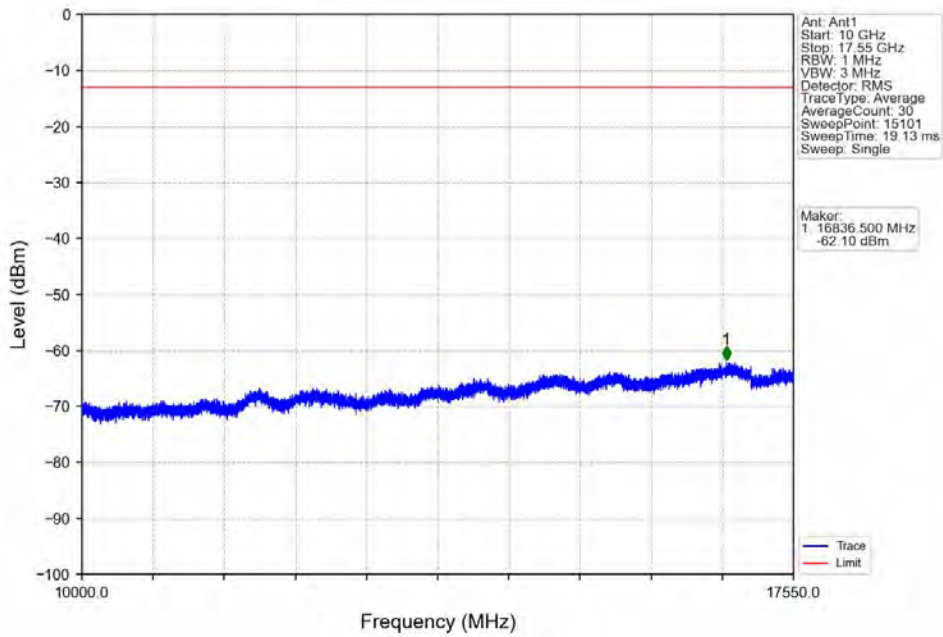


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.953	-45.51	-13	Pass
1709	1710	0.013	/	2	1709.976	-32.76	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/

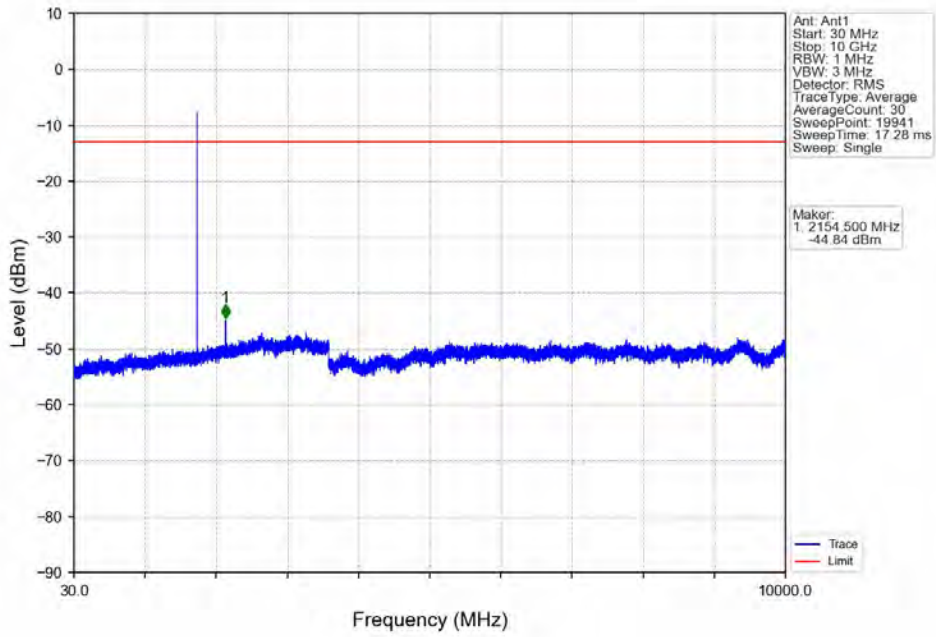
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



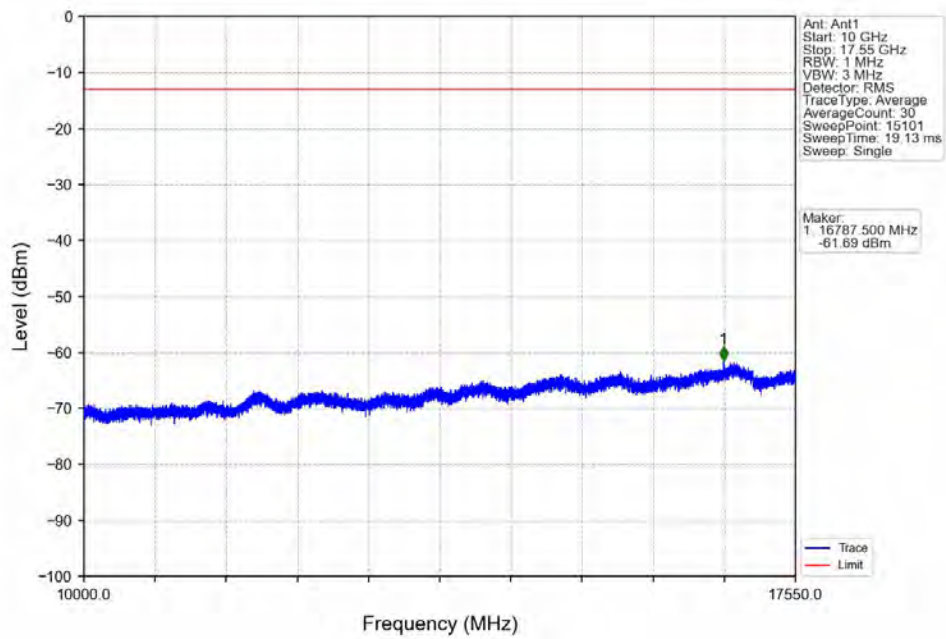
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



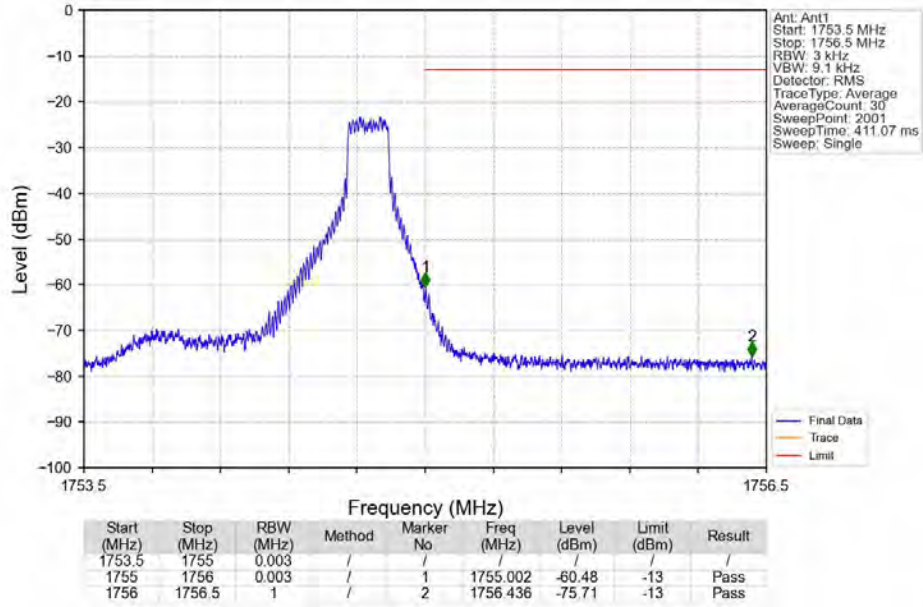
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTV



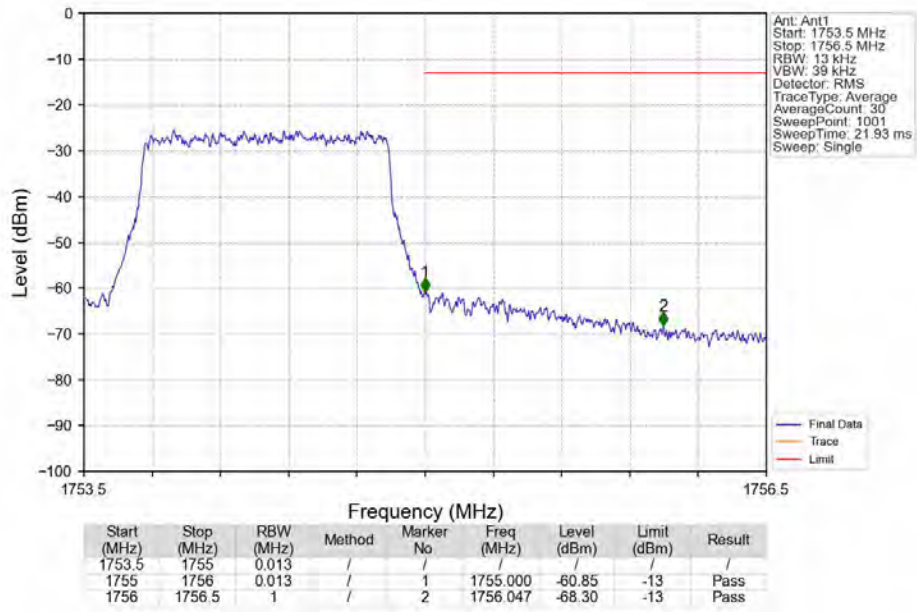
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTV



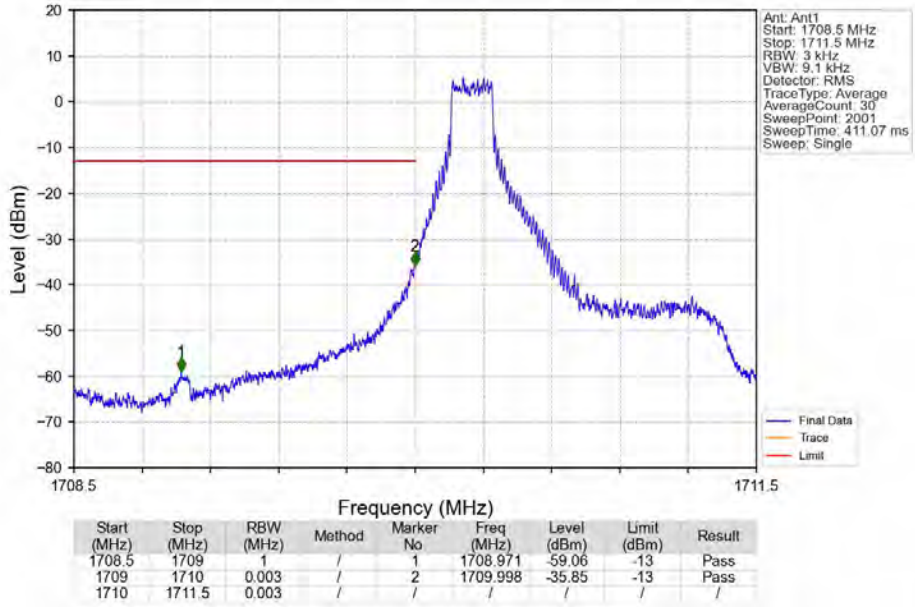
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTV



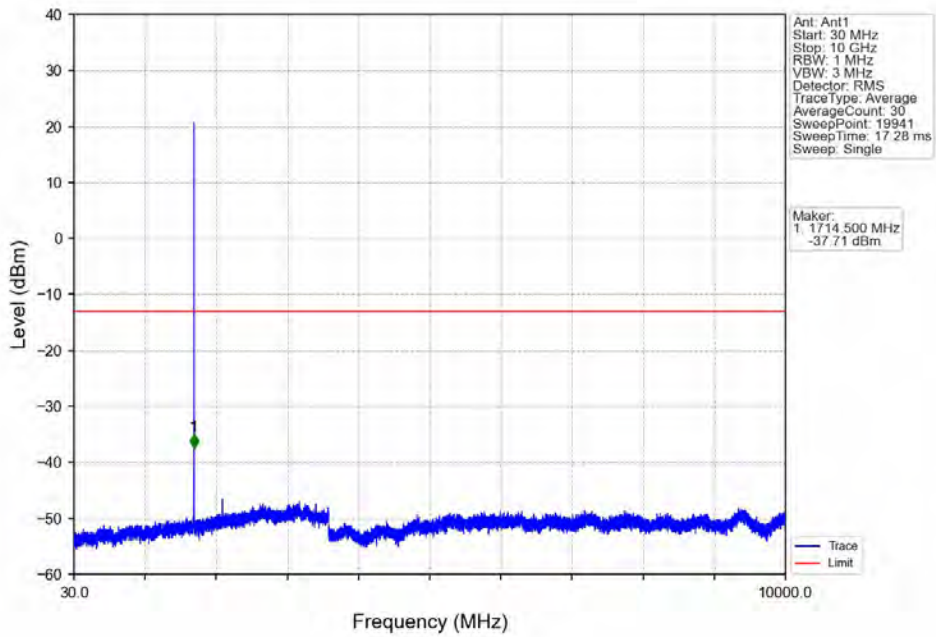
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTV



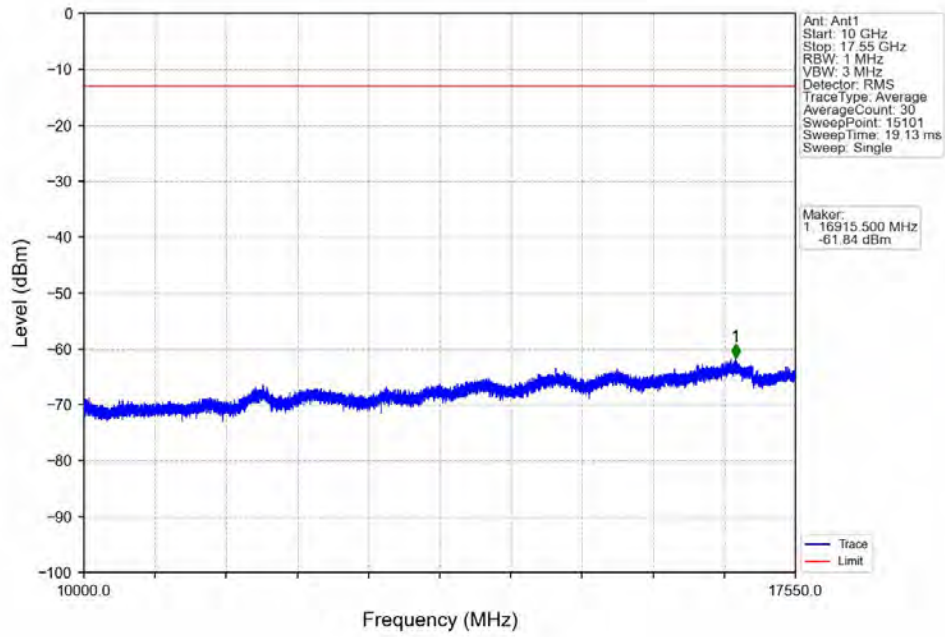
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



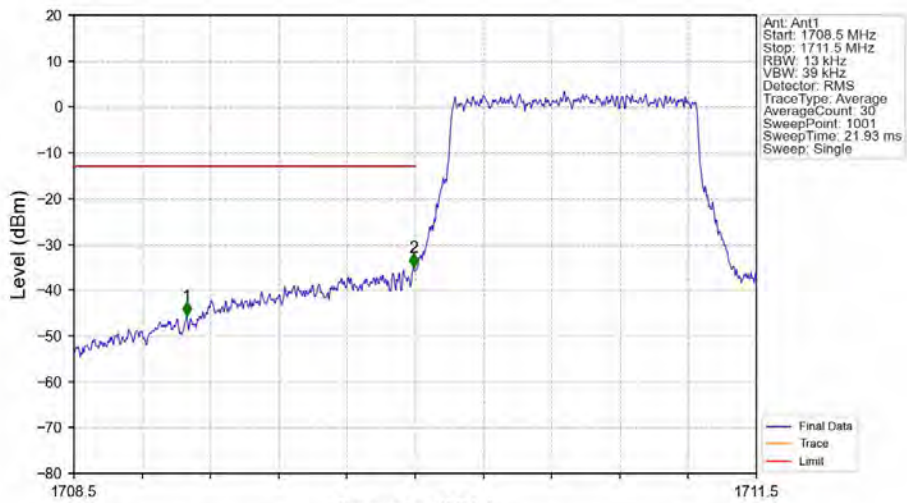
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTNV

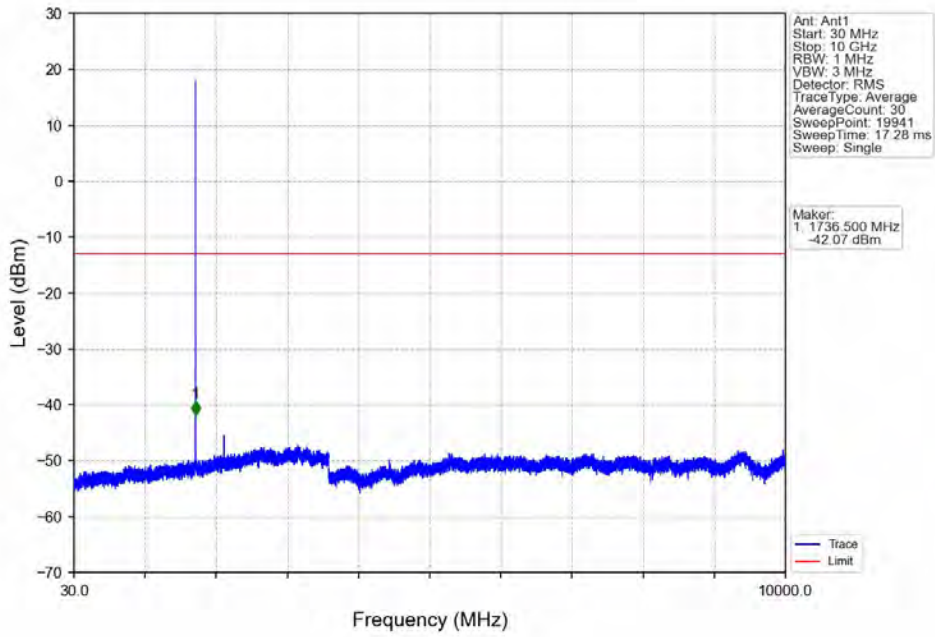


Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV

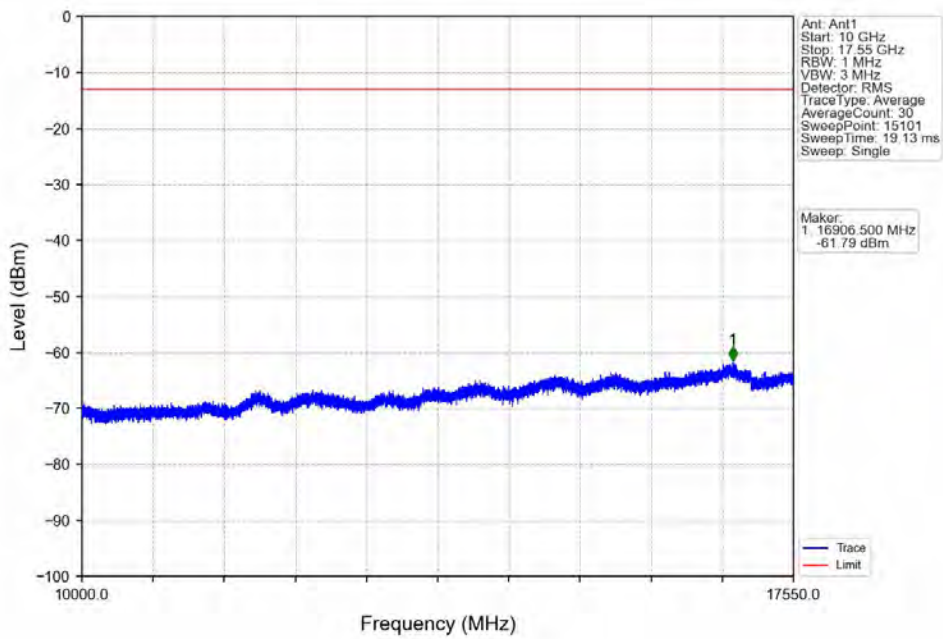


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.995	-45.69	-13	Pass
1709	1710	0.013	/	2	1709.994	-34.99	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/

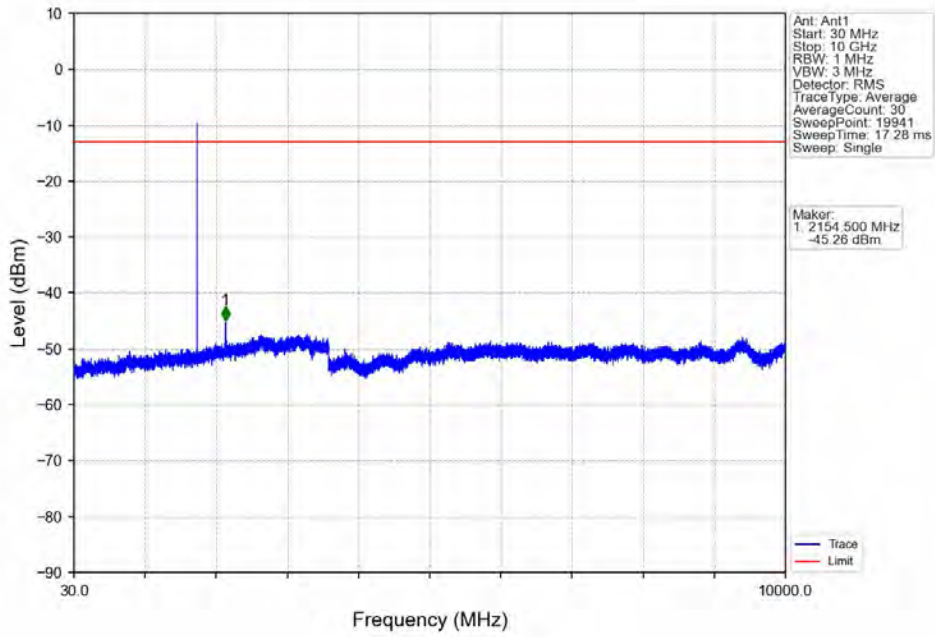
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTN



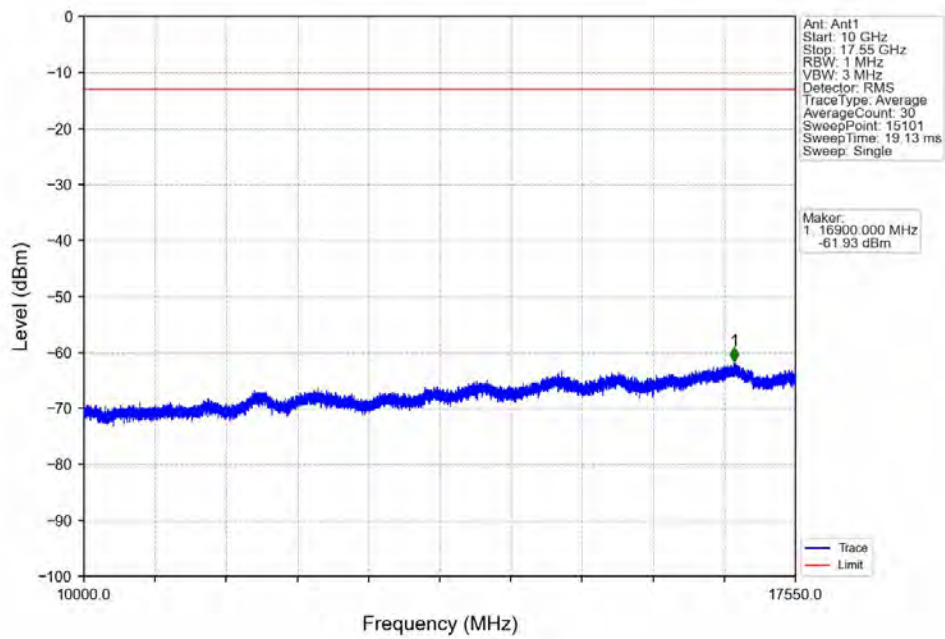
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTN



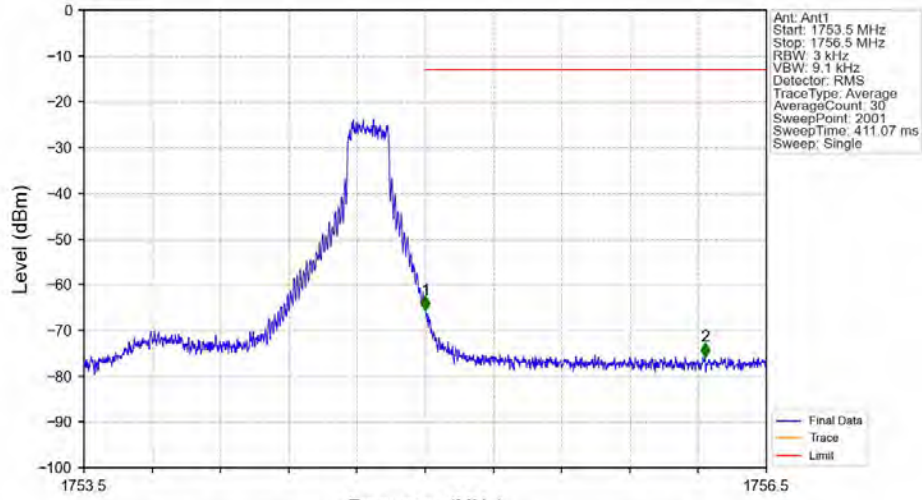
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV

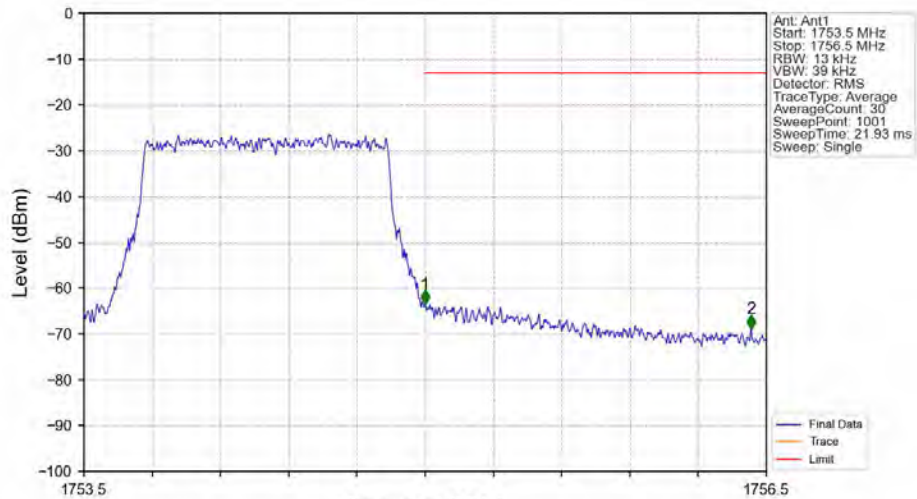


Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 5 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.003	/	1	1755.002	-65.68	-13	Pass
1755	1756	0.003	/	2	1756.230	-75.78	-13	Pass

Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



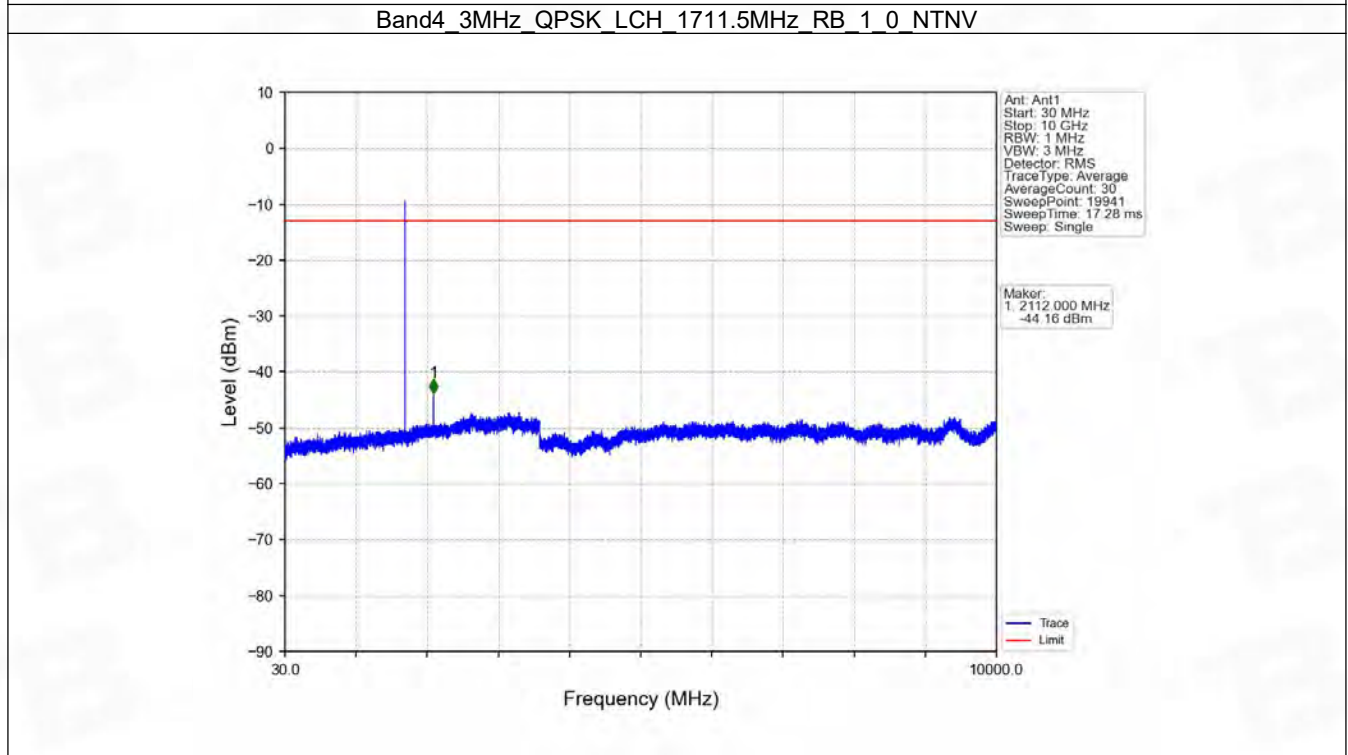
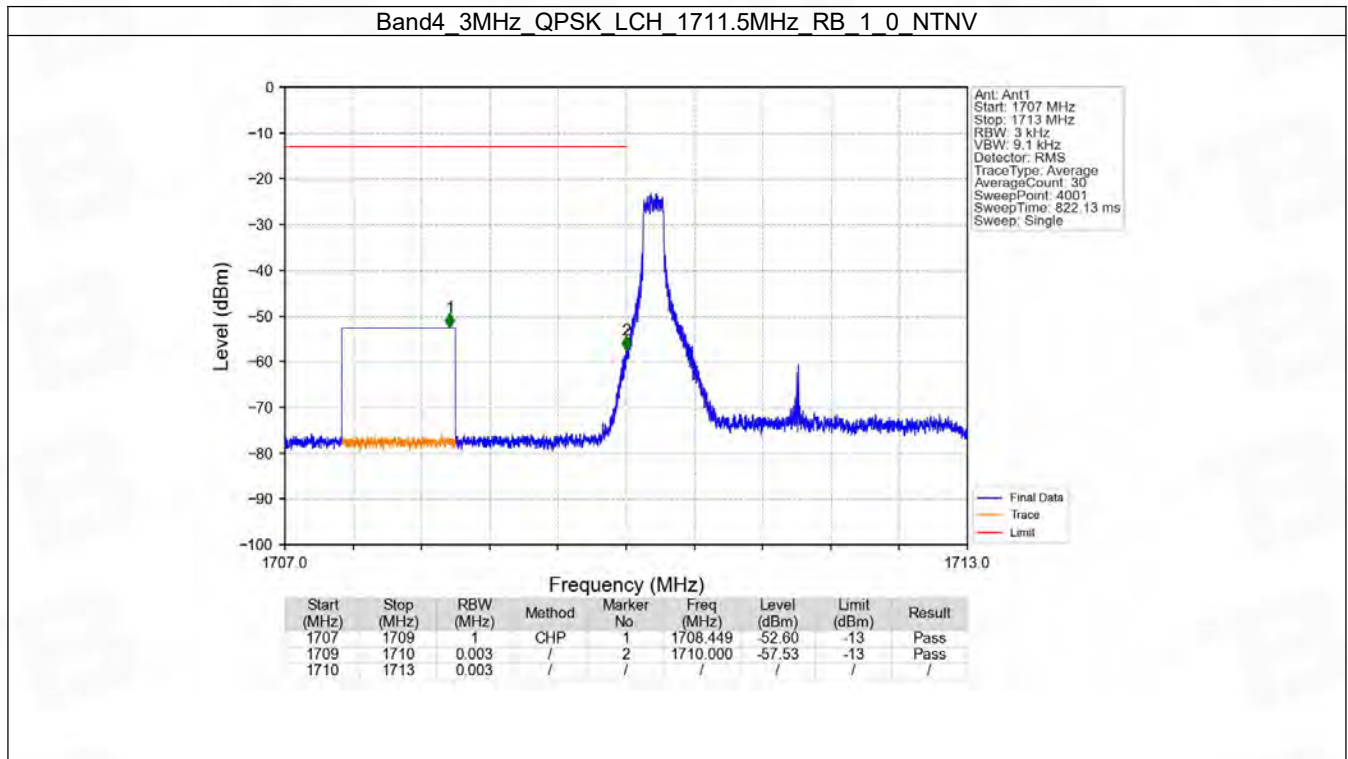
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.013	/	1	1755.000	-63.56	-13	Pass
1755	1756	0.013	/	2	1756.434	-68.89	-13	Pass

6.2 B4_3MHz

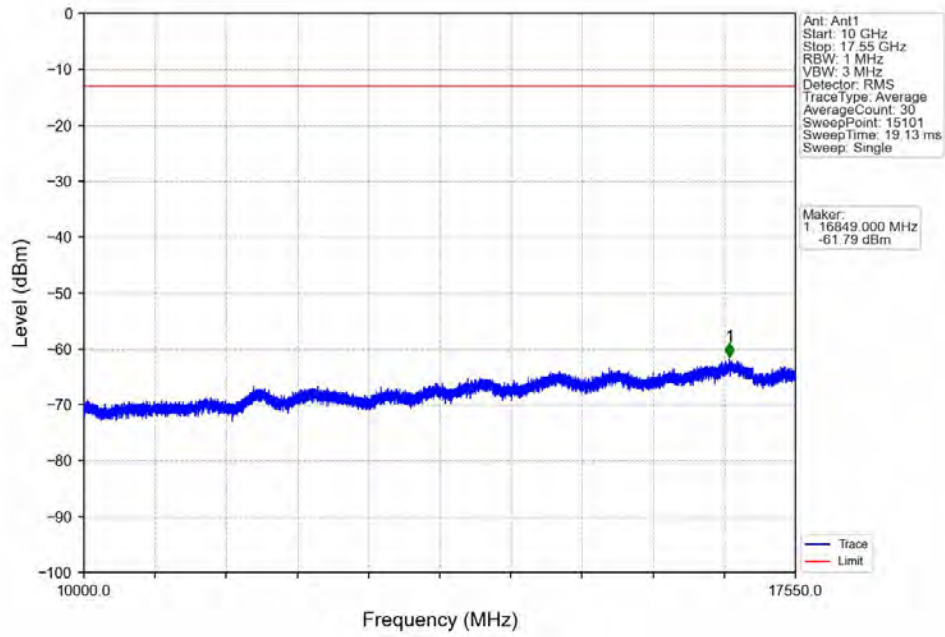
6.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

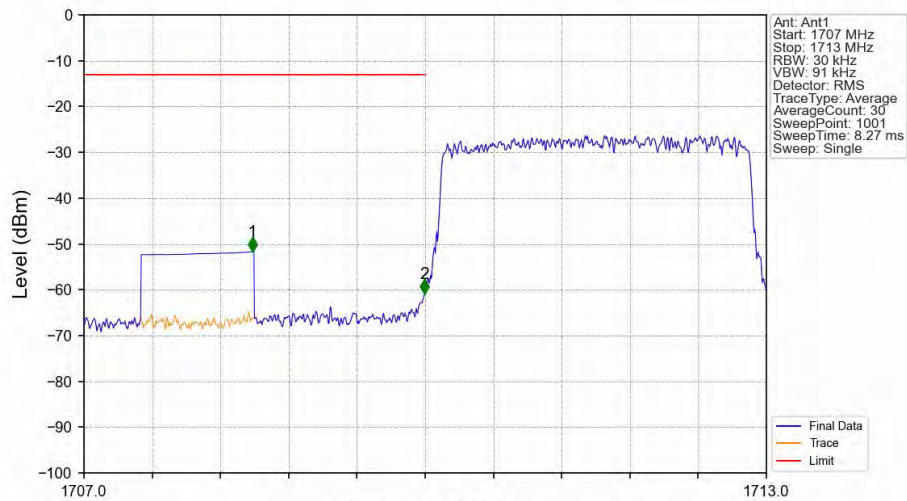
6.2.2 Test Graph



Band4 3MHz QPSK LCH 1711.5MHz RB 1 0 NTNV

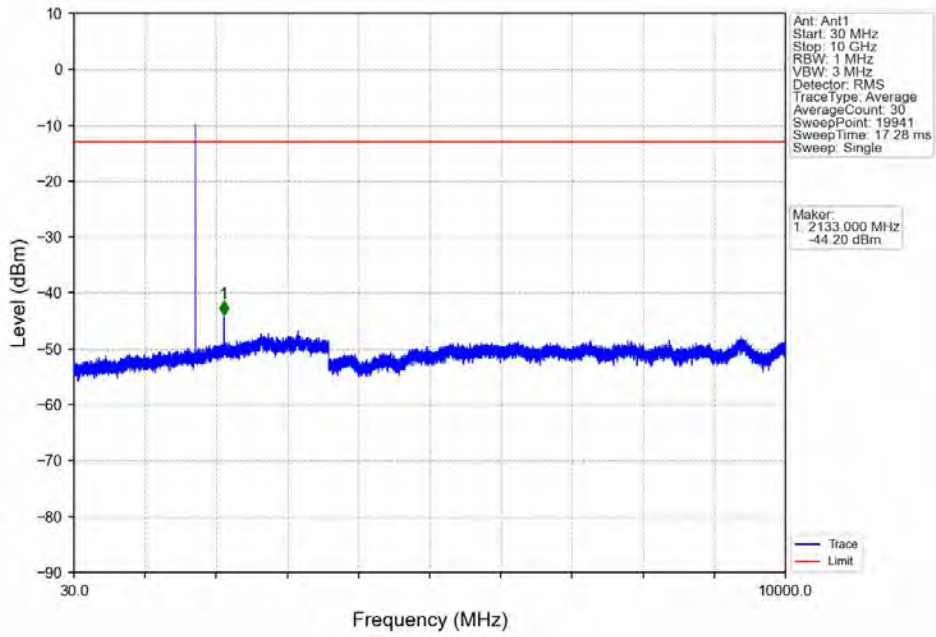


Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTNV

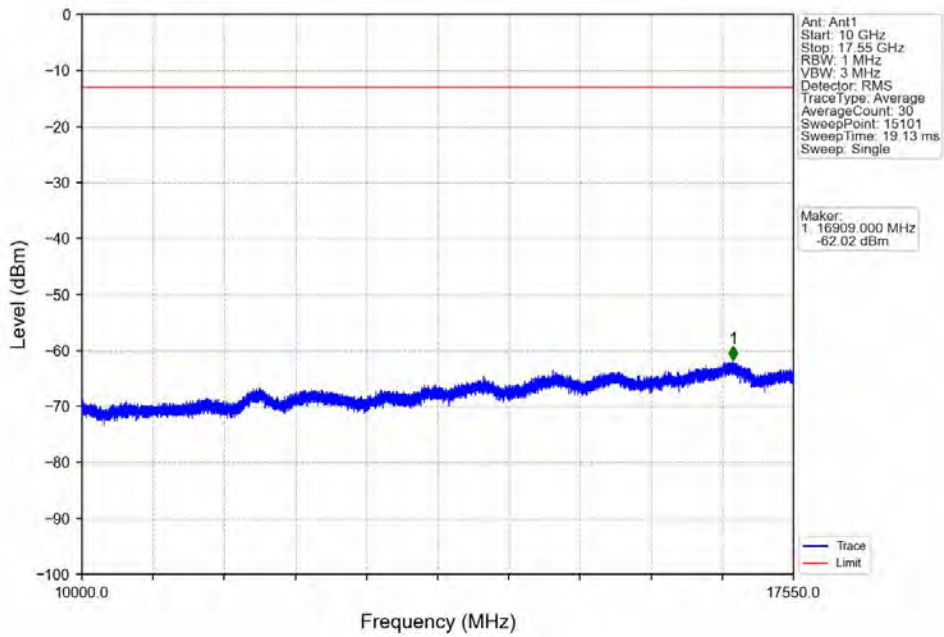


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.482	-51.74	-13	Pass
1709	1710	0.03	/	2	1709.994	-60.91	-13	Pass
1710	1713	0.03	/	/	/	/	/	/

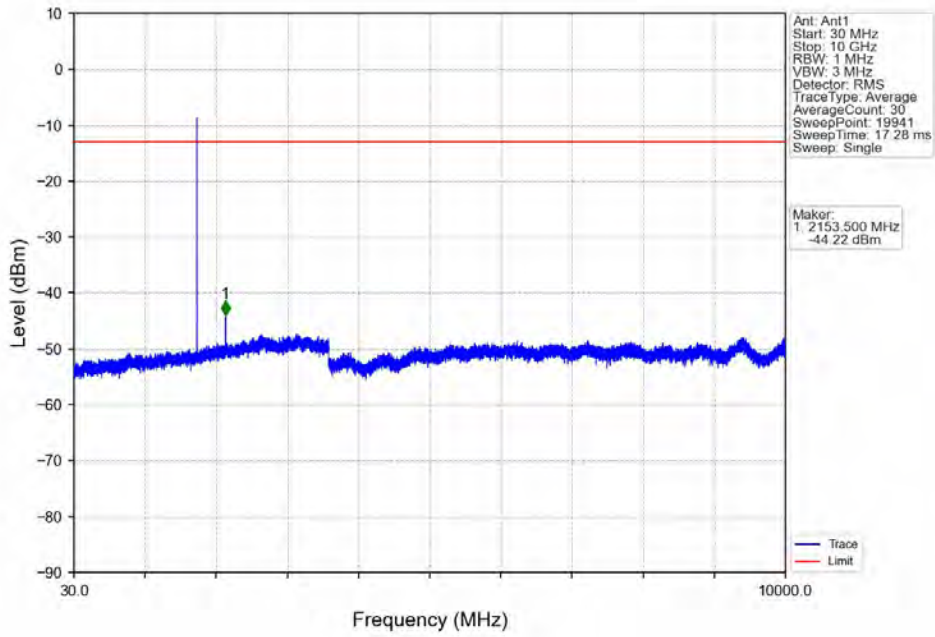
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



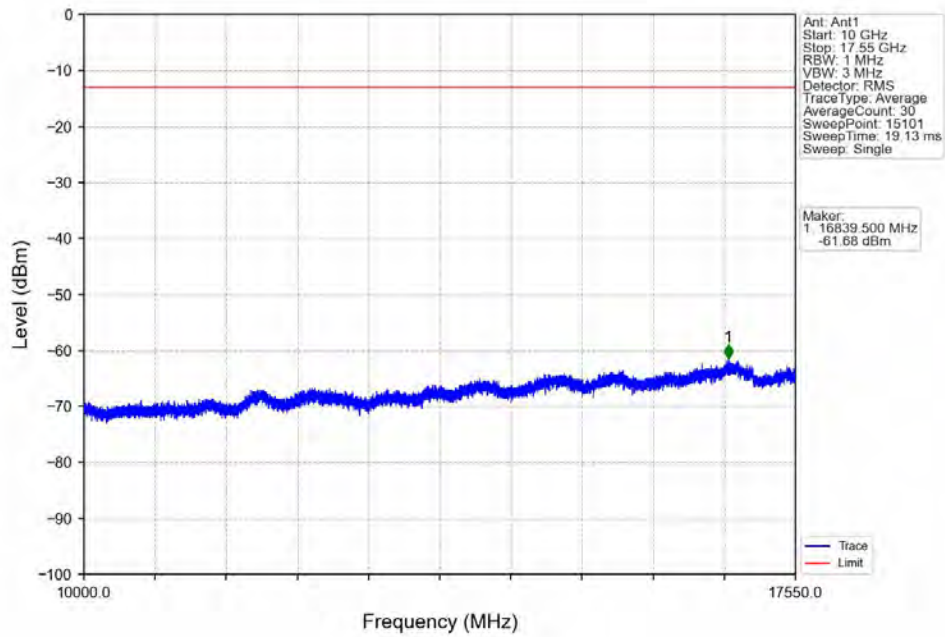
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



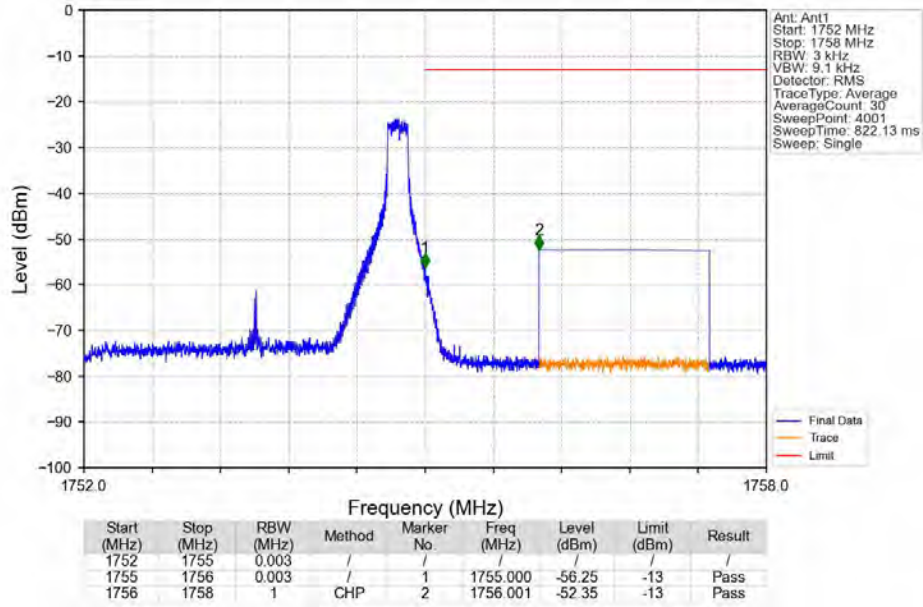
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



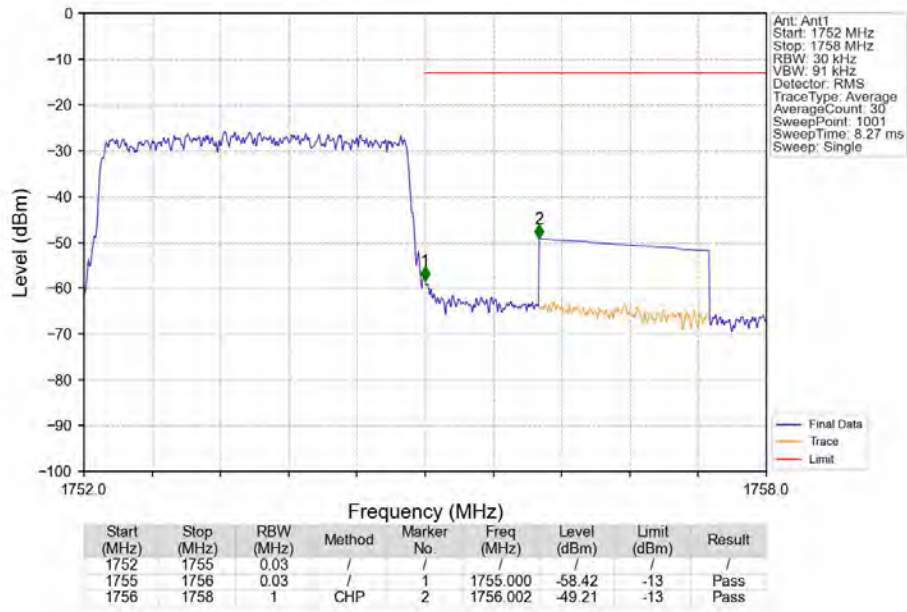
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



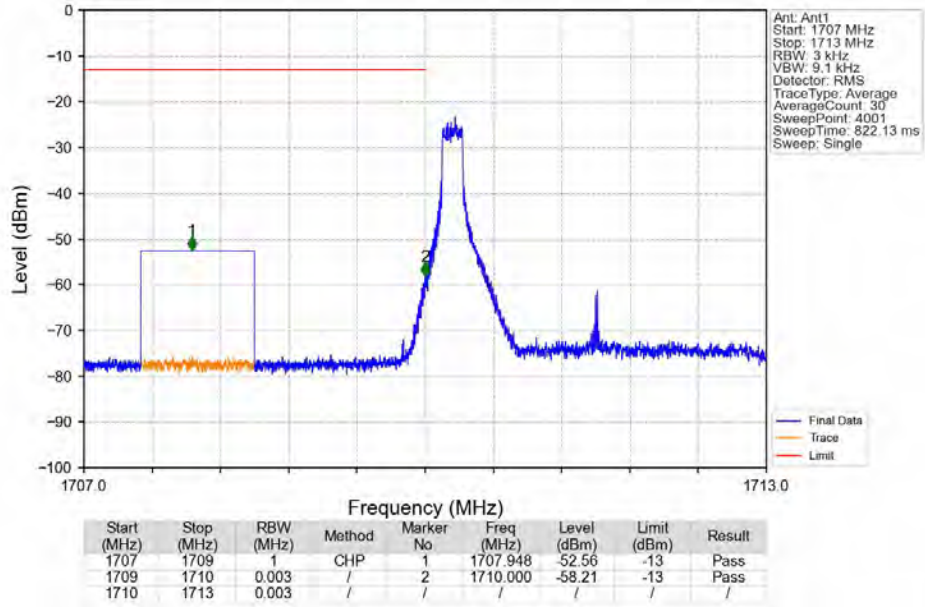
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



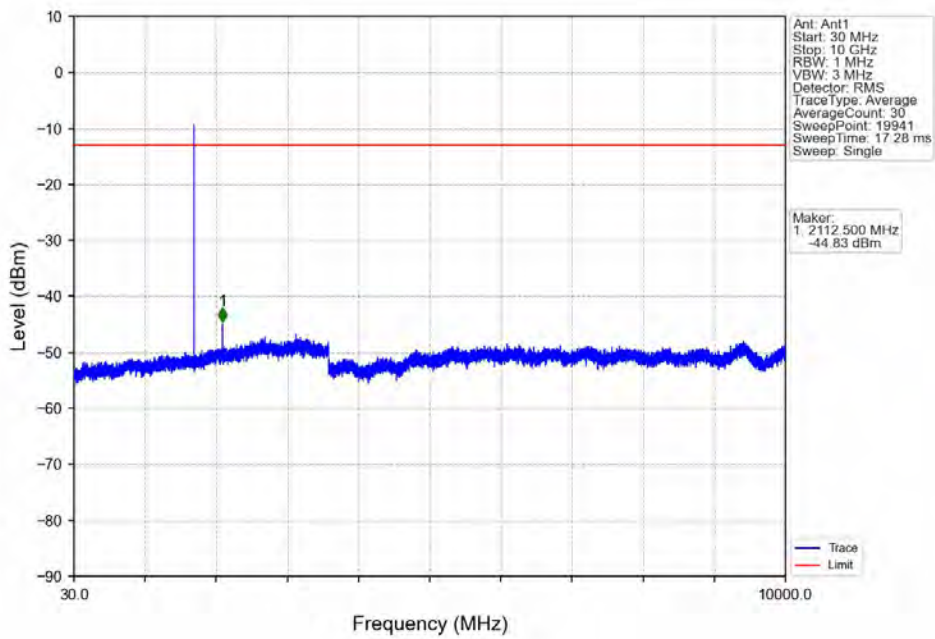
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



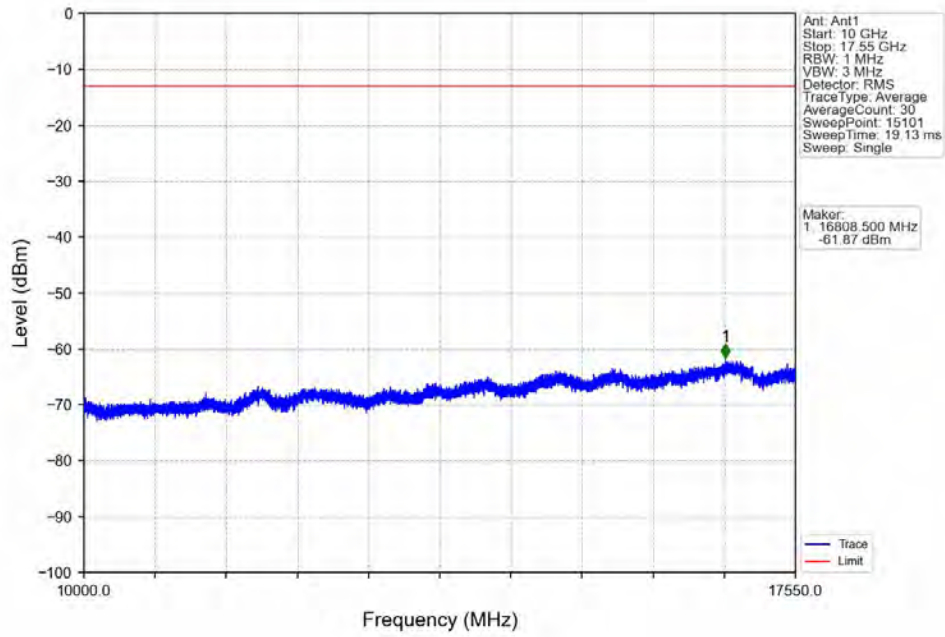
Band4 3MHz 16QAM LCH 1711.5MHz RB 1_0_NTNV



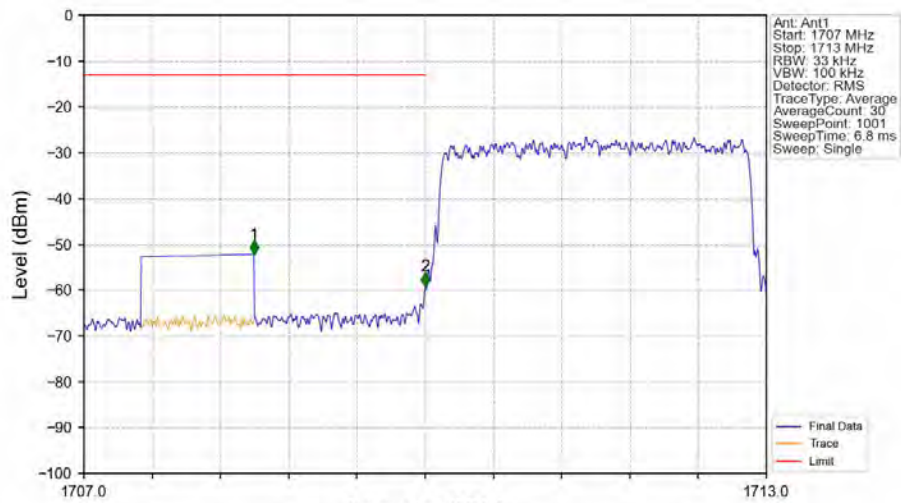
Band4 3MHz 16QAM LCH 1711.5MHz RB 1_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV

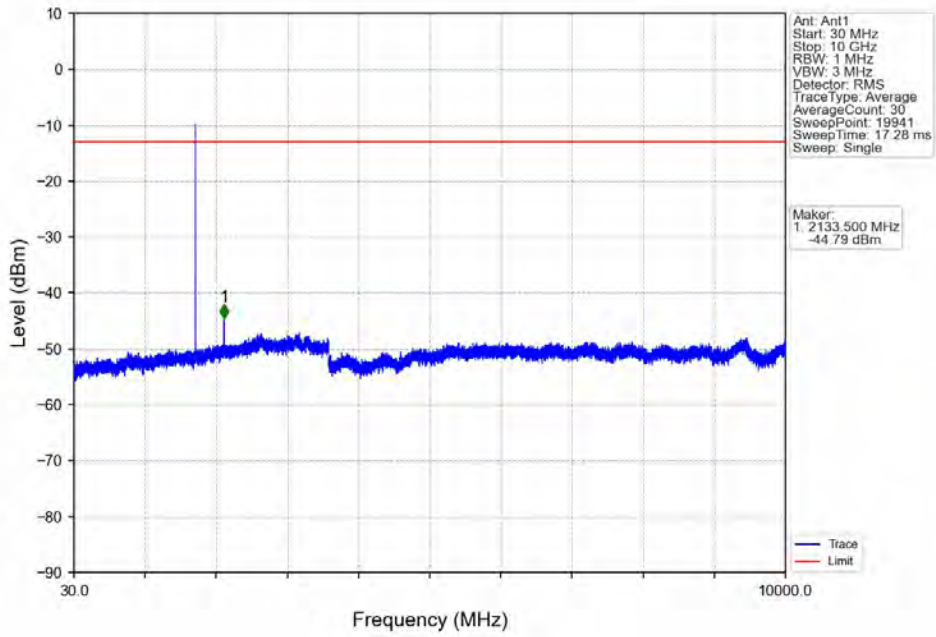


Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

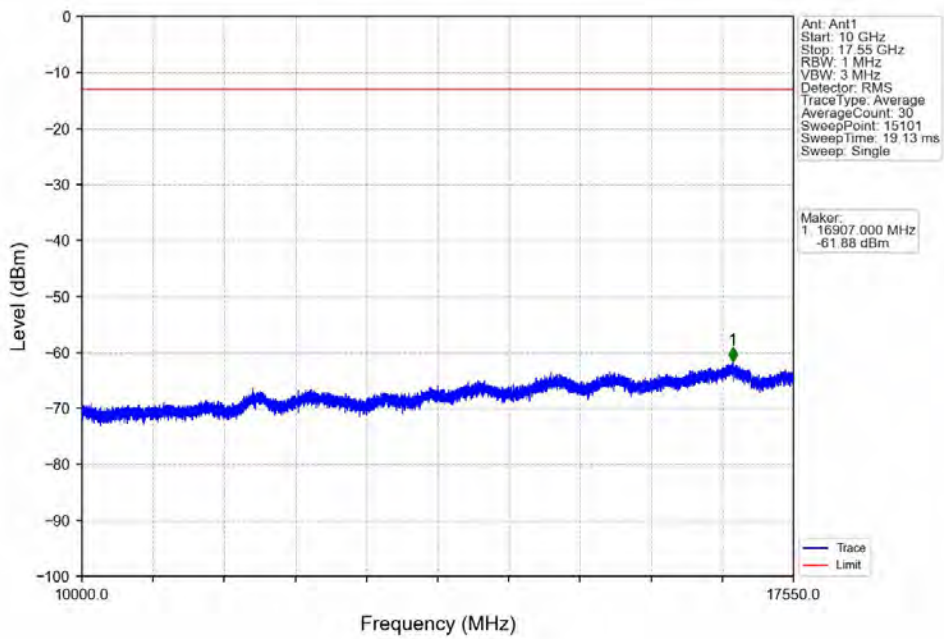


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-52.16	-13	Pass
1709	1710	0.033	/	2	1710.000	-59.20	-13	Pass
1710	1713	0.033	/	/	/	/	/	/

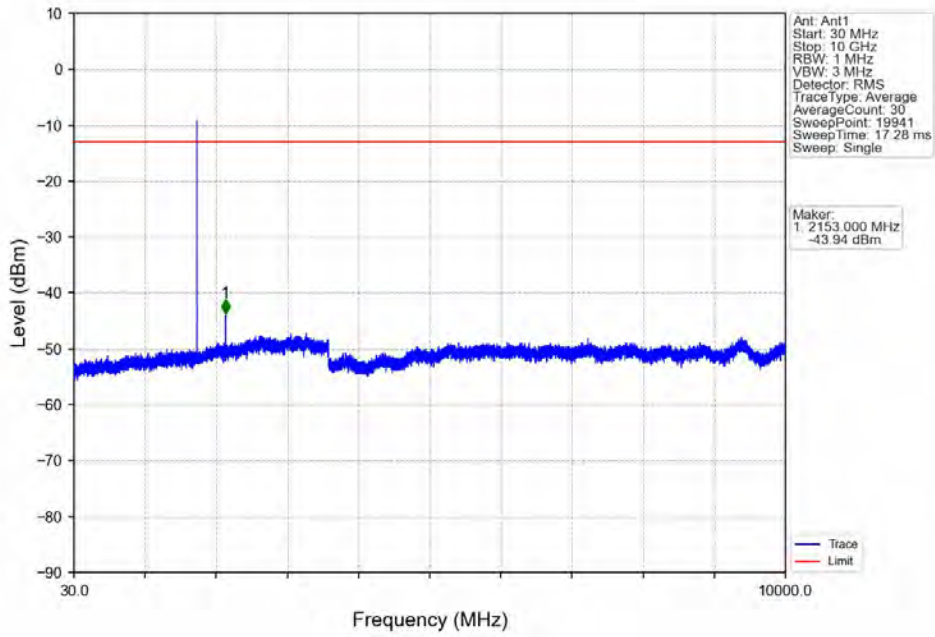
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



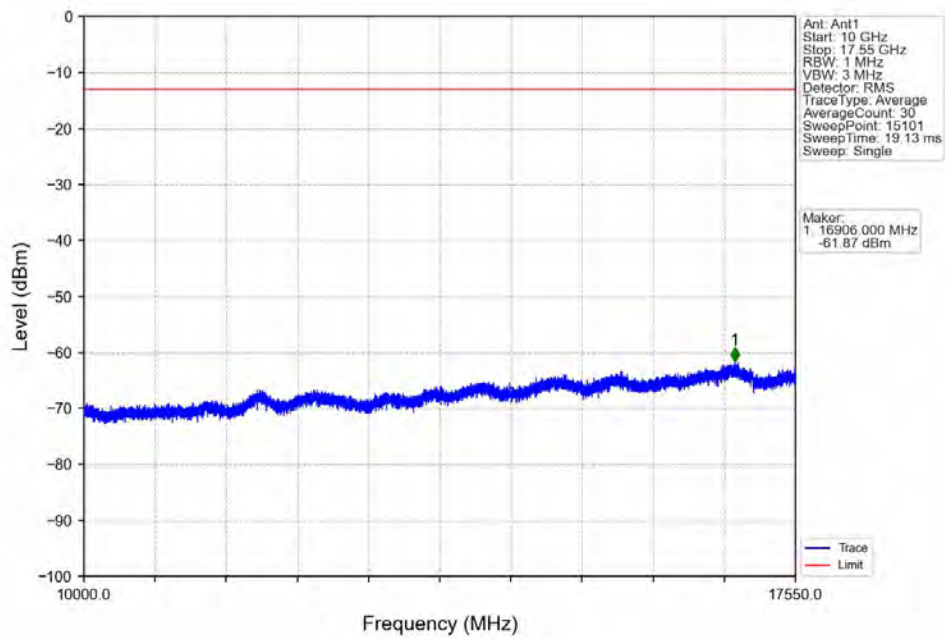
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



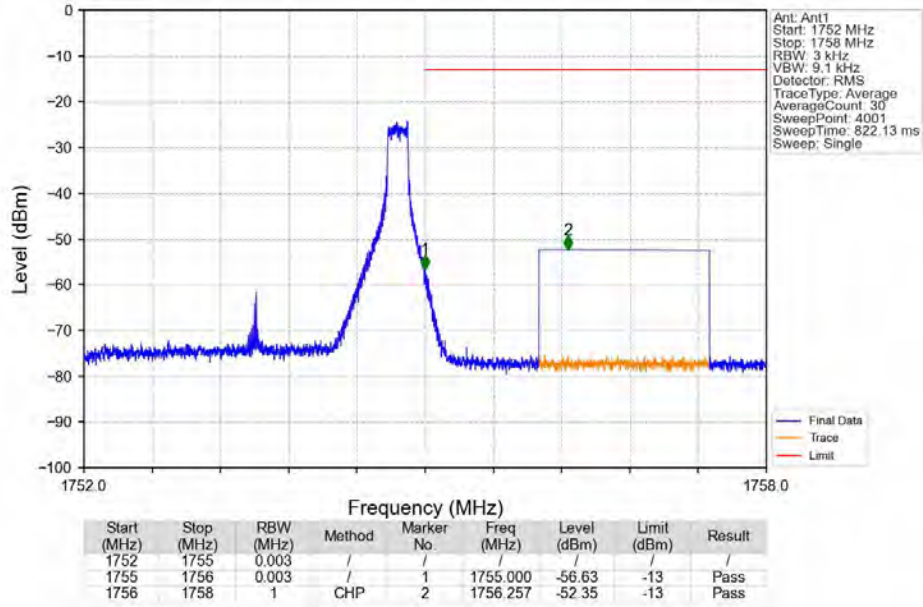
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV



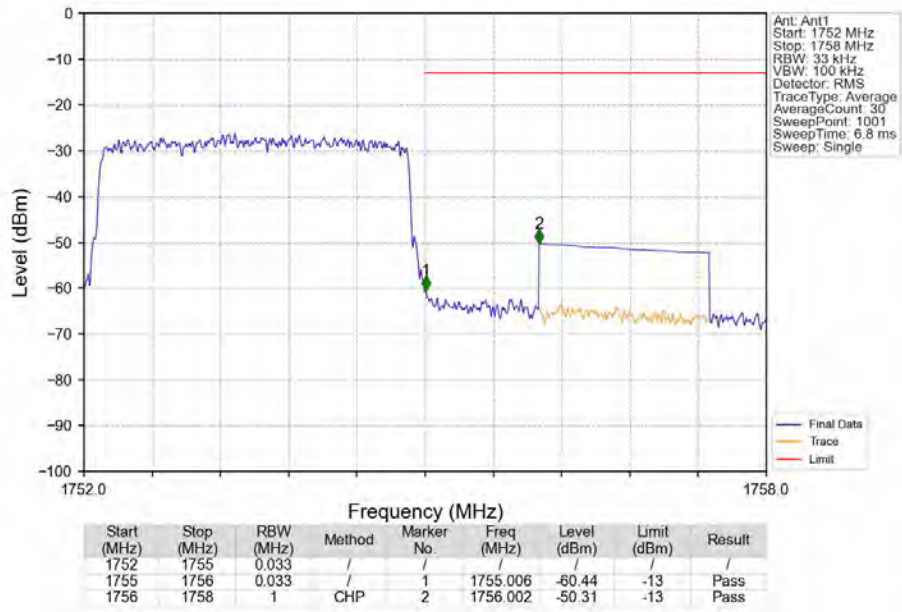
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_14_NTV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTV

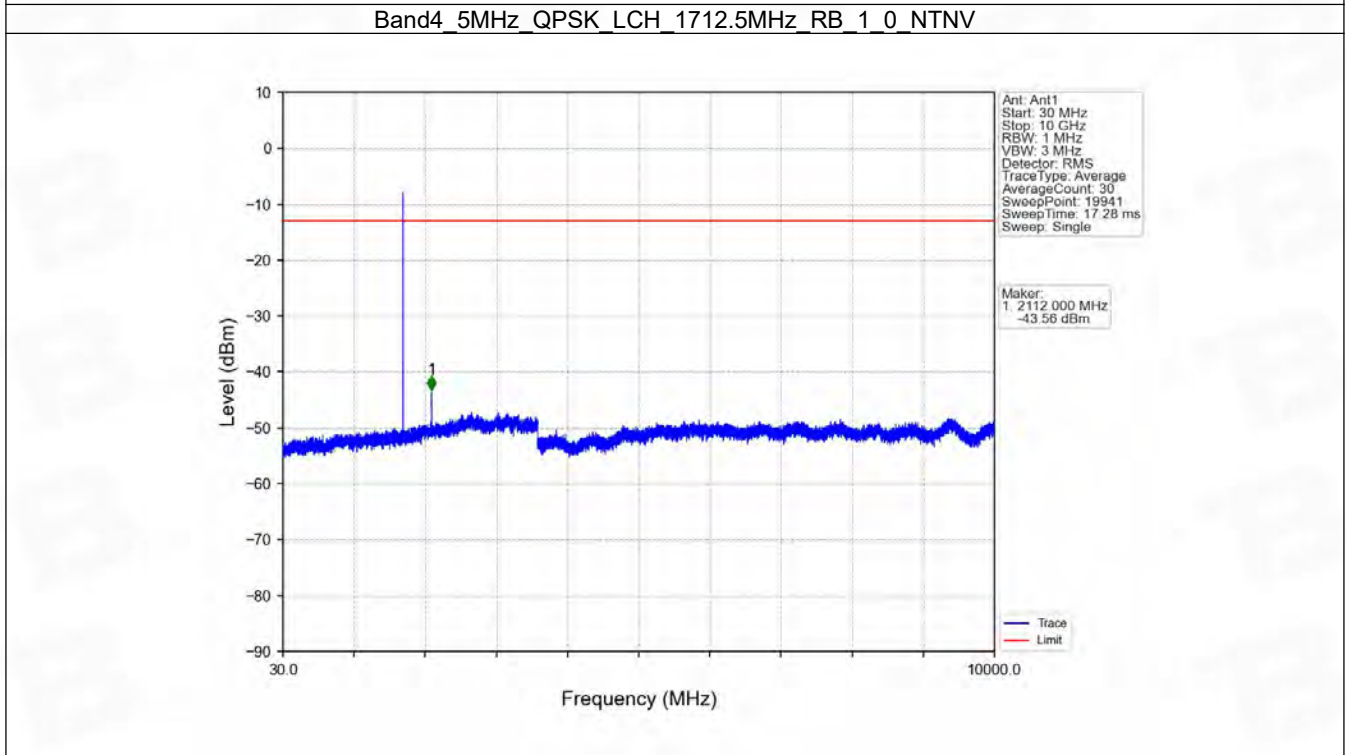
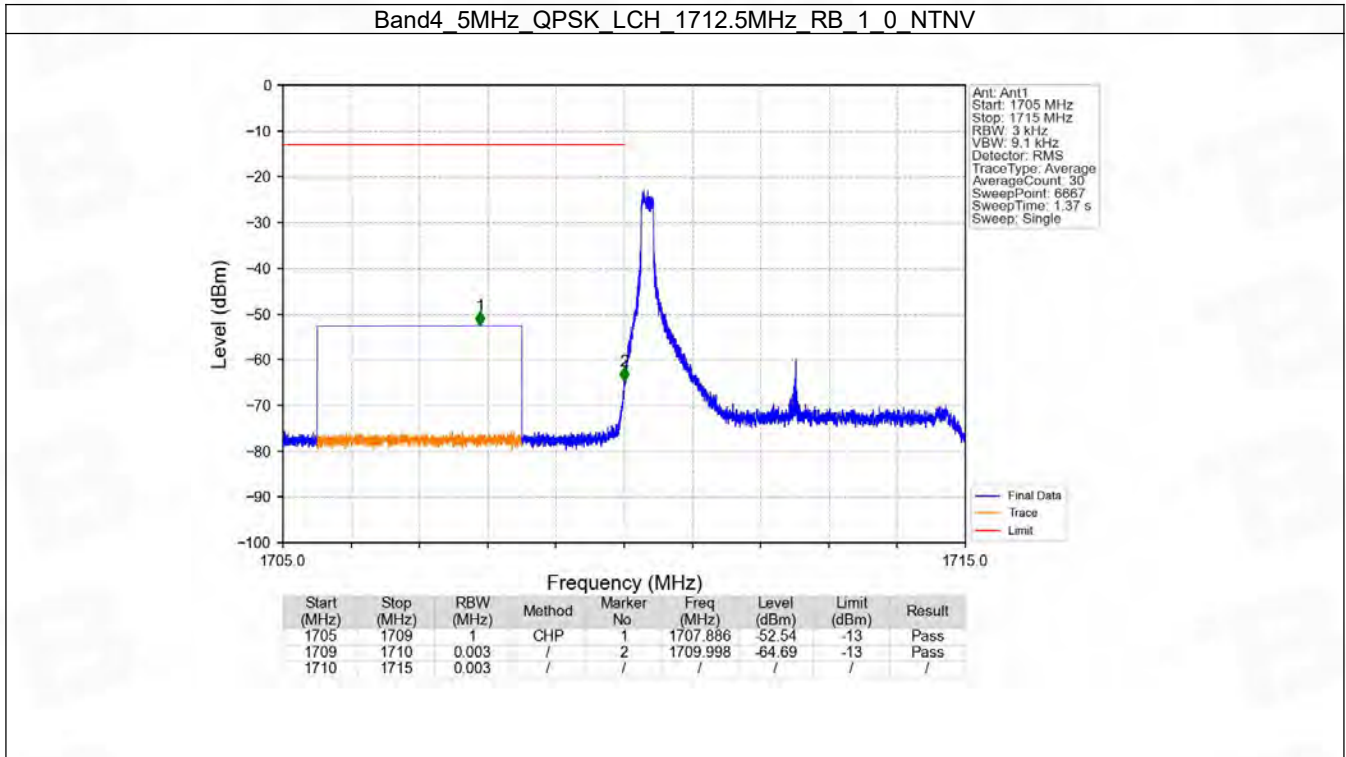


6.3 B4_5MHz

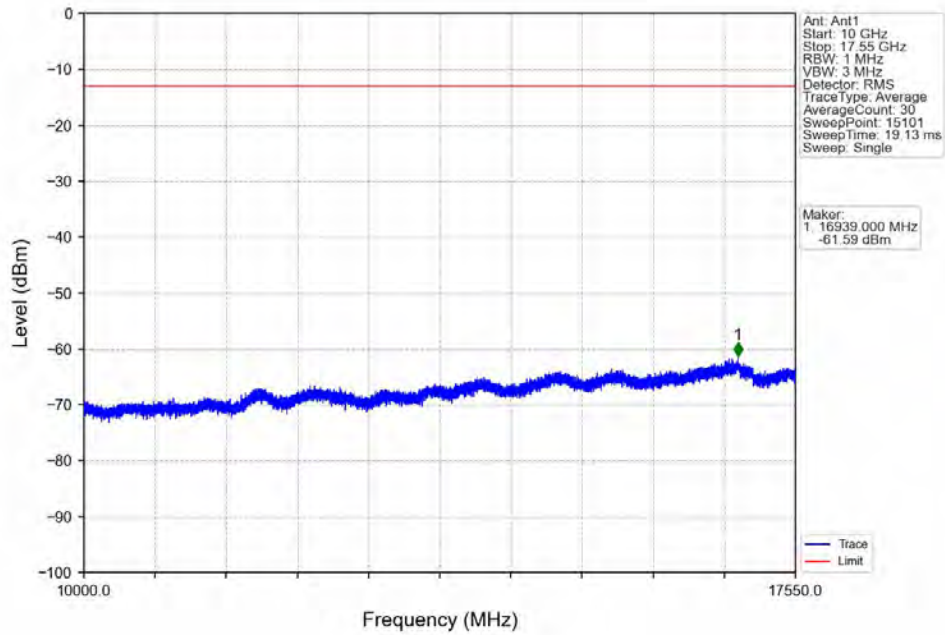
6.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

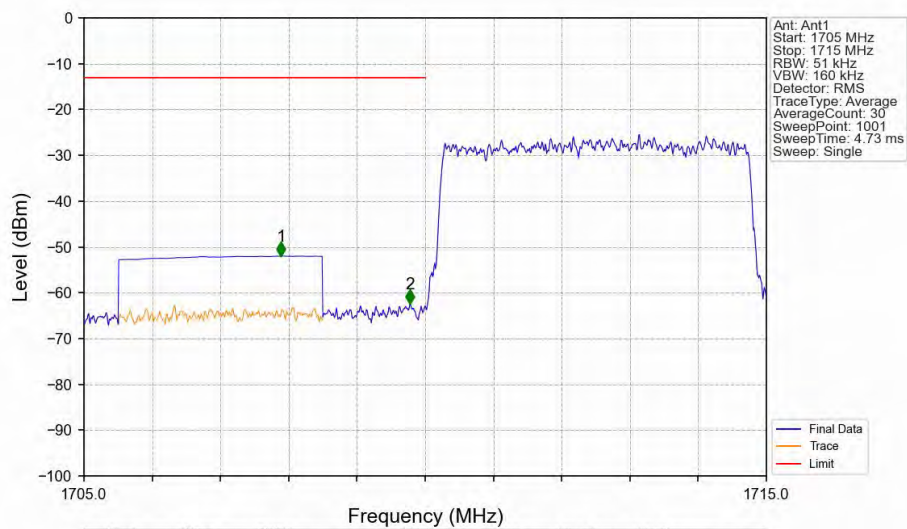
6.3.2 Test Graph



Band4 5MHz QPSK LCH 1712.5MHz RB 1 0 NTNV

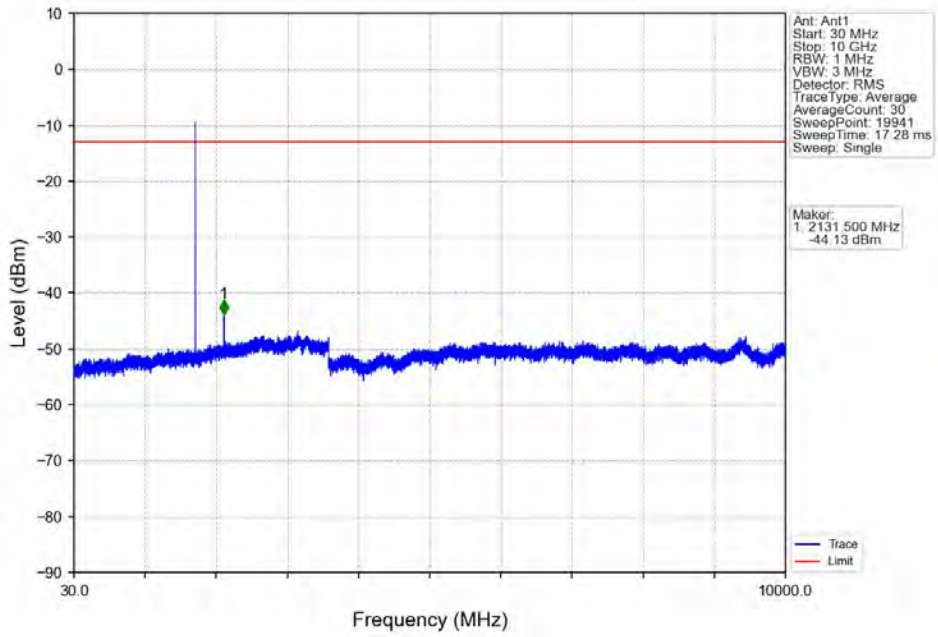


Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV

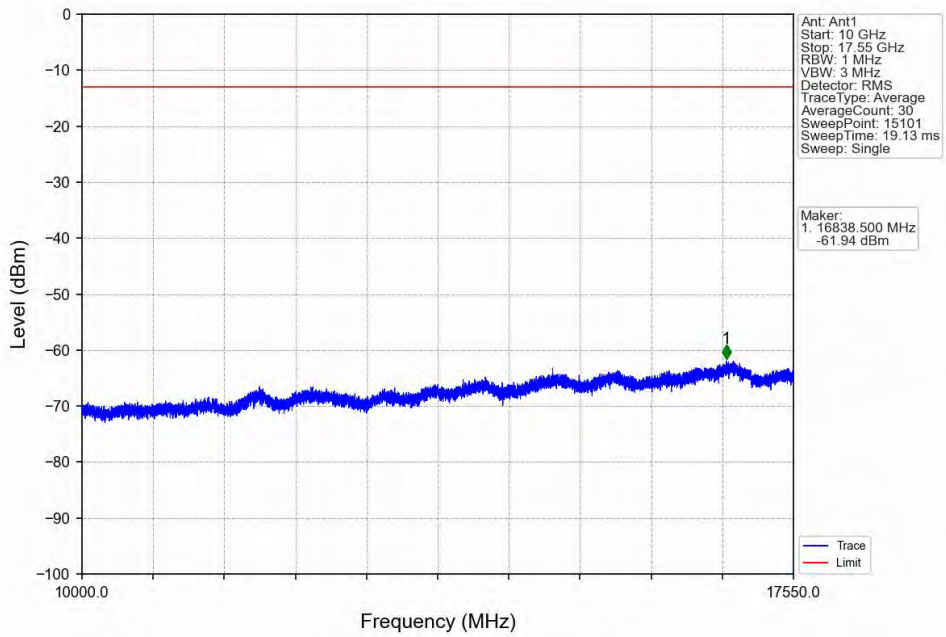


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1707.890	-52.00	-13	Pass
1709	1710	0.051	/	2	1709.780	-62.42	-13	Pass
1710	1715	0.051	/	/	/	/	/	/

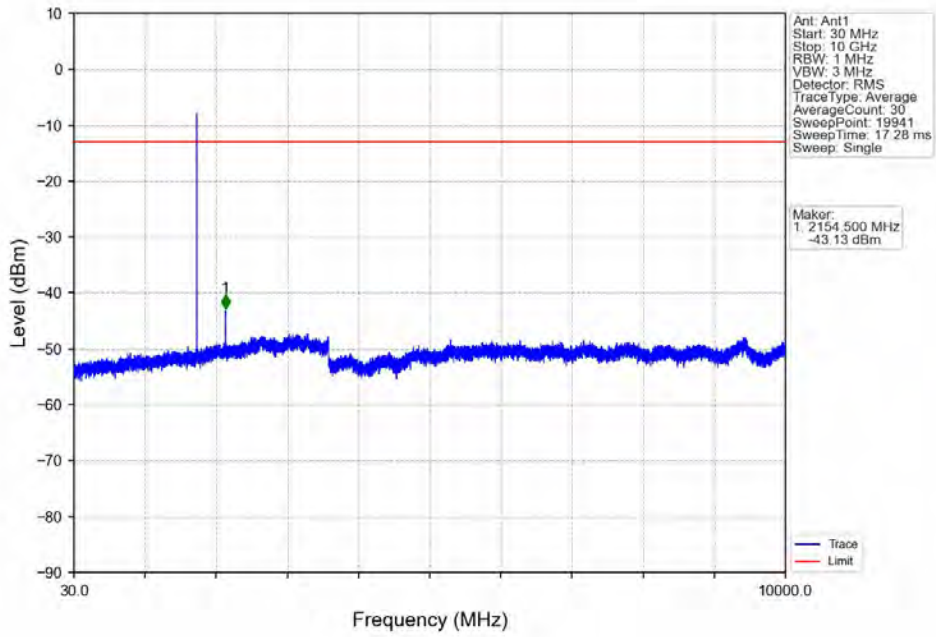
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



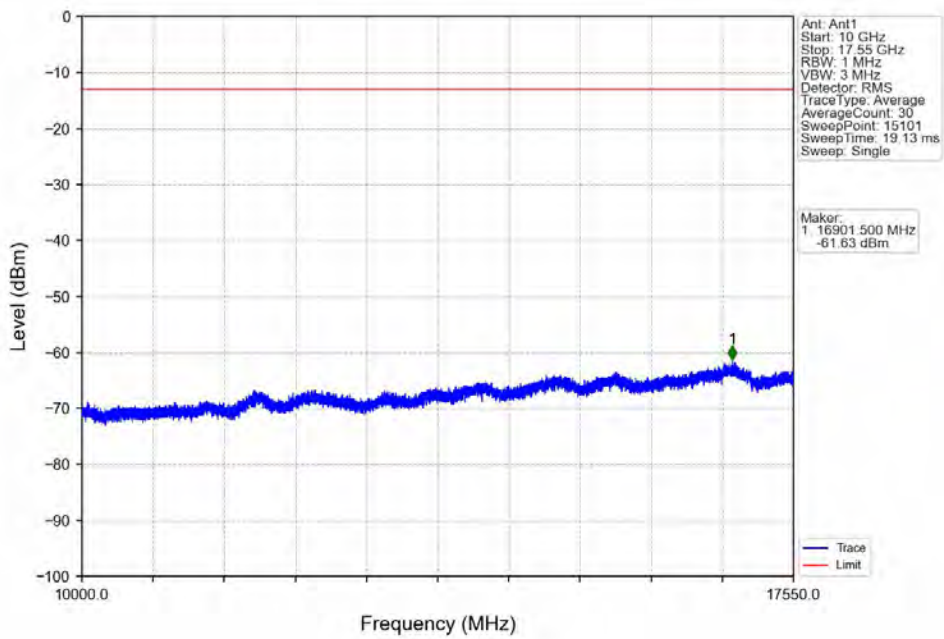
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



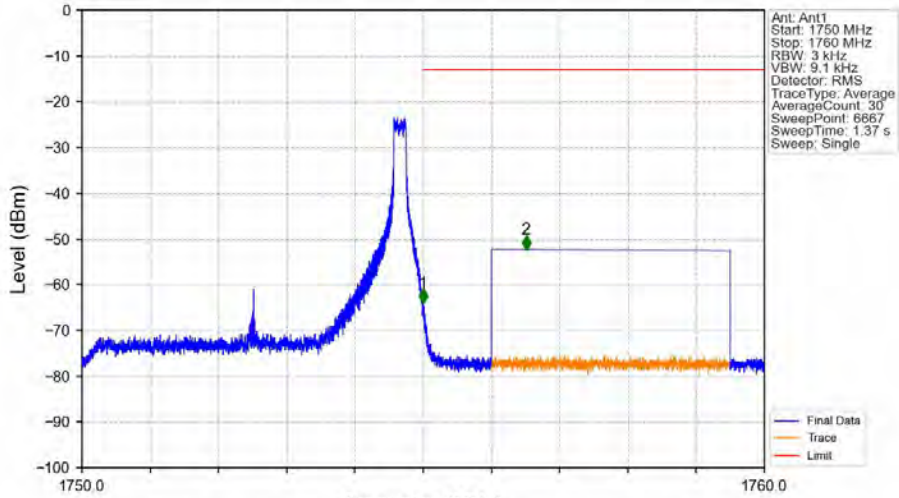
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV

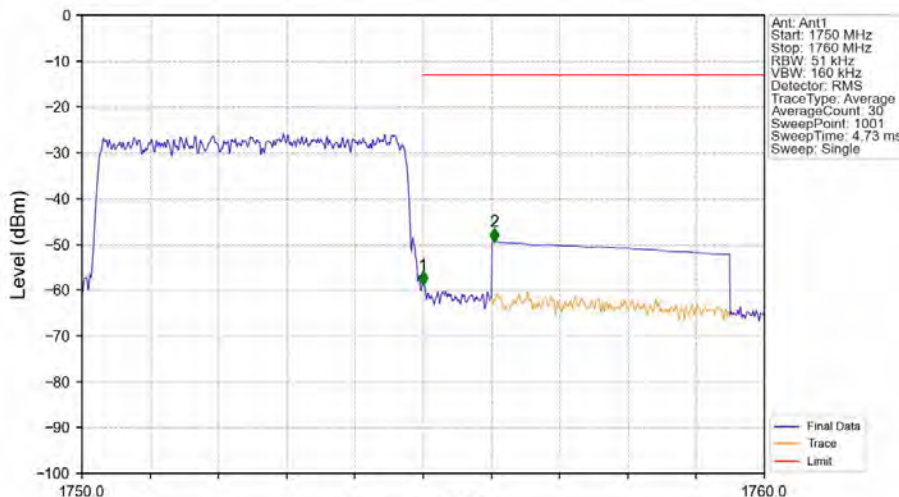


Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_24_NTNV



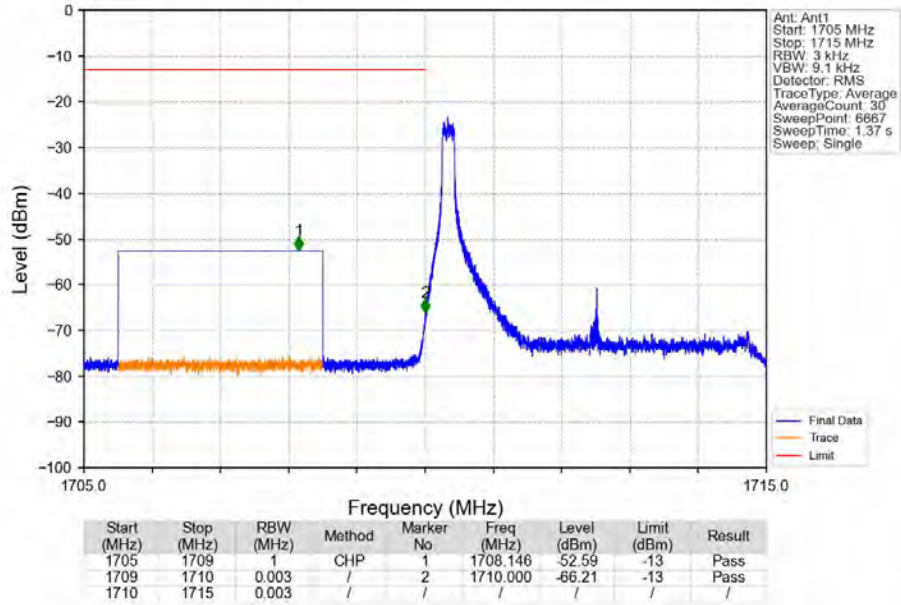
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	1	1755.000	-64.08	-13	Pass
1755	1756	0.003	CHP	2	1756.509	-52.30	-13	Pass

Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV

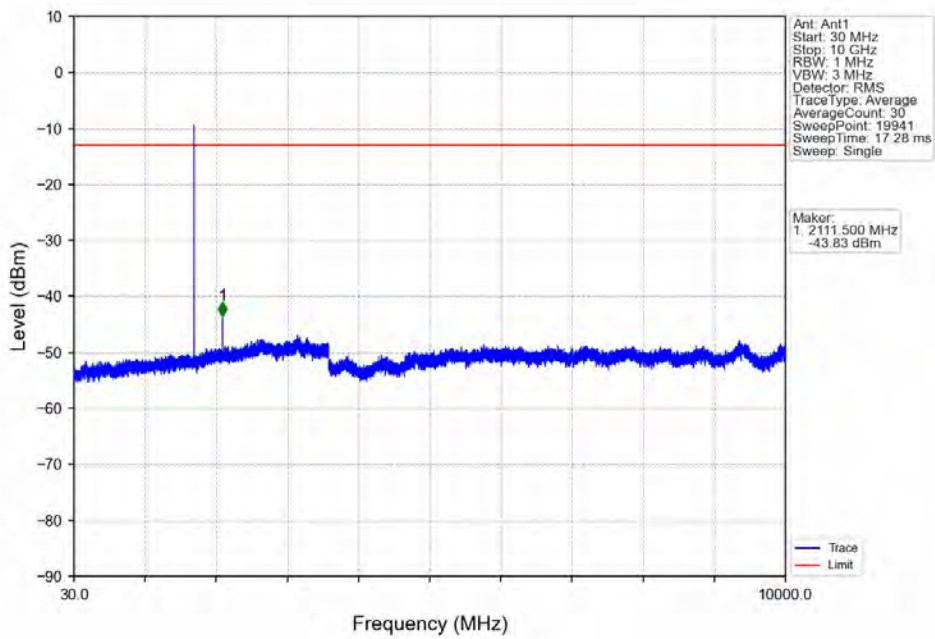


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.051	/	1	1755.000	-58.89	-13	Pass
1755	1760	1	CHP	2	1756.040	-49.49	-13	Pass

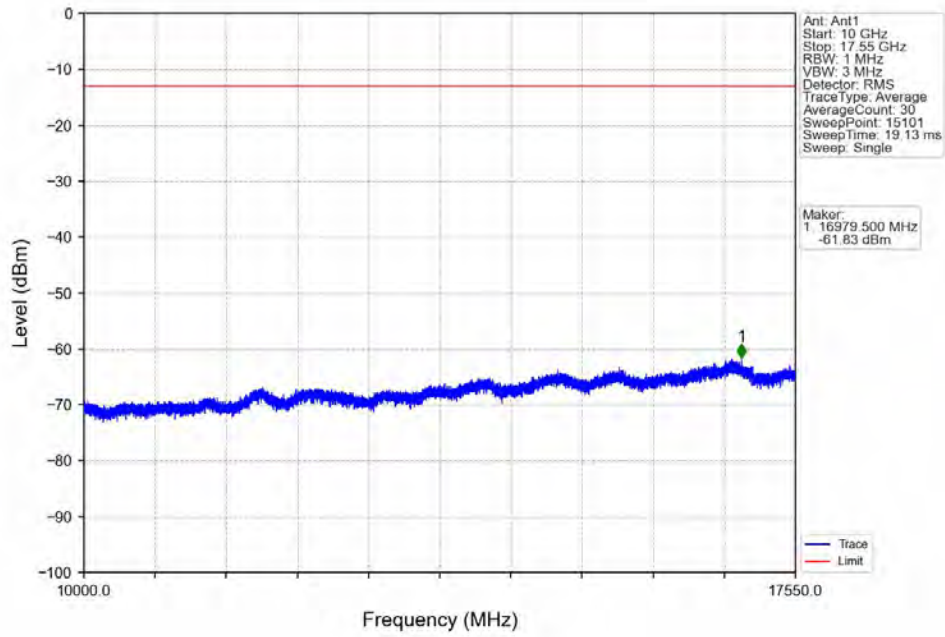
Band4 5MHz 16QAM LCH 1712.5MHz RB 1 0 NTNV



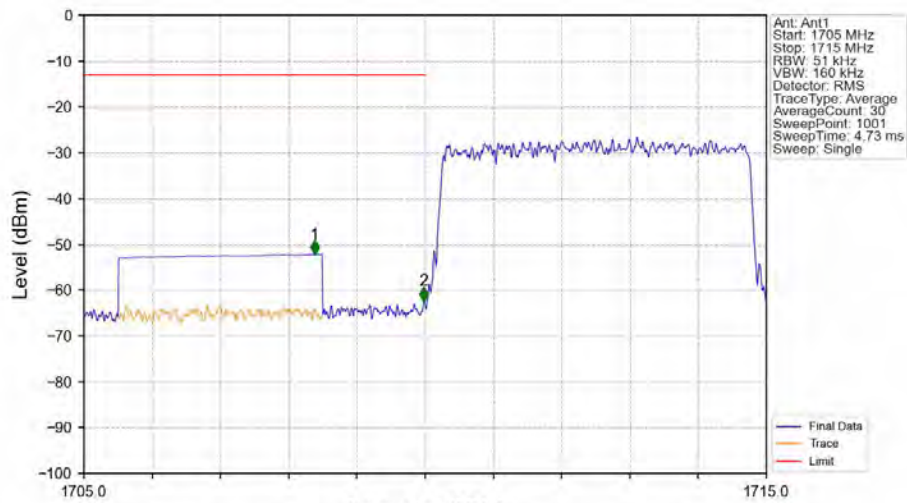
Band4 5MHz 16QAM LCH 1712.5MHz RB 1 0 NTNV



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV

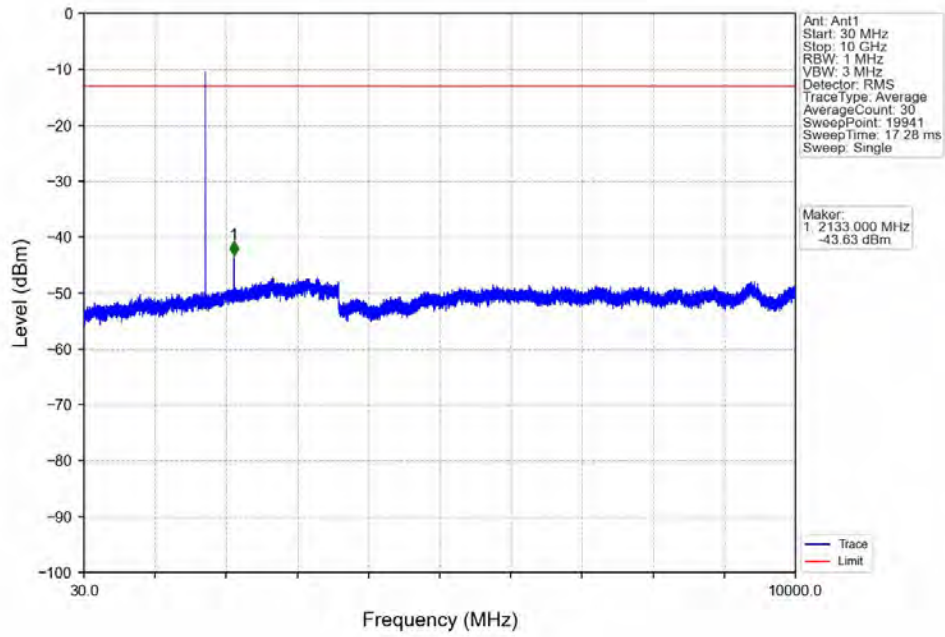


Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV

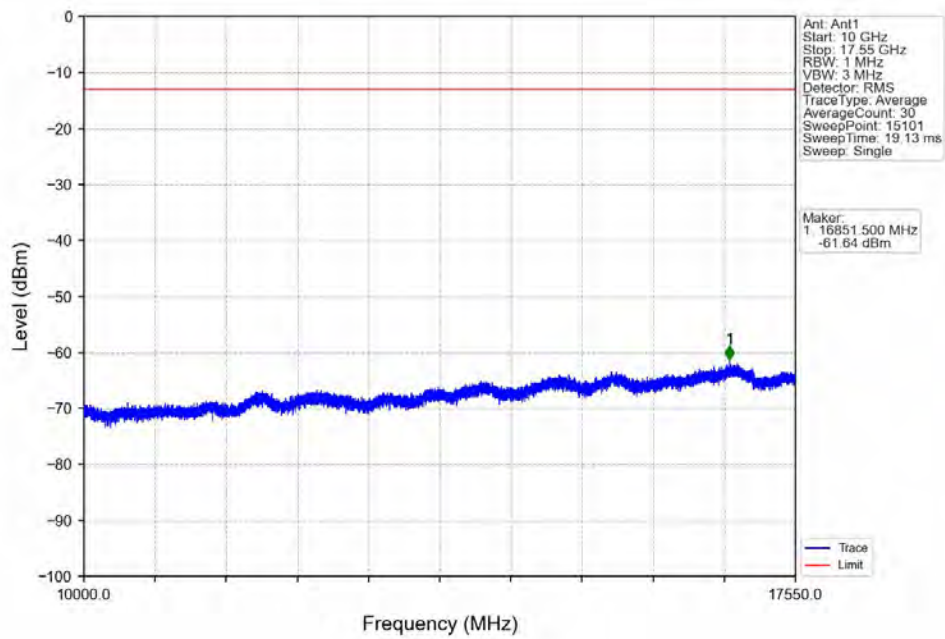


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.380	-52.19	-13	Pass
1709	1710	0.051	/	2	1709.980	-62.37	-13	Pass
1710	1715	0.051	/	/	/	/	/	/

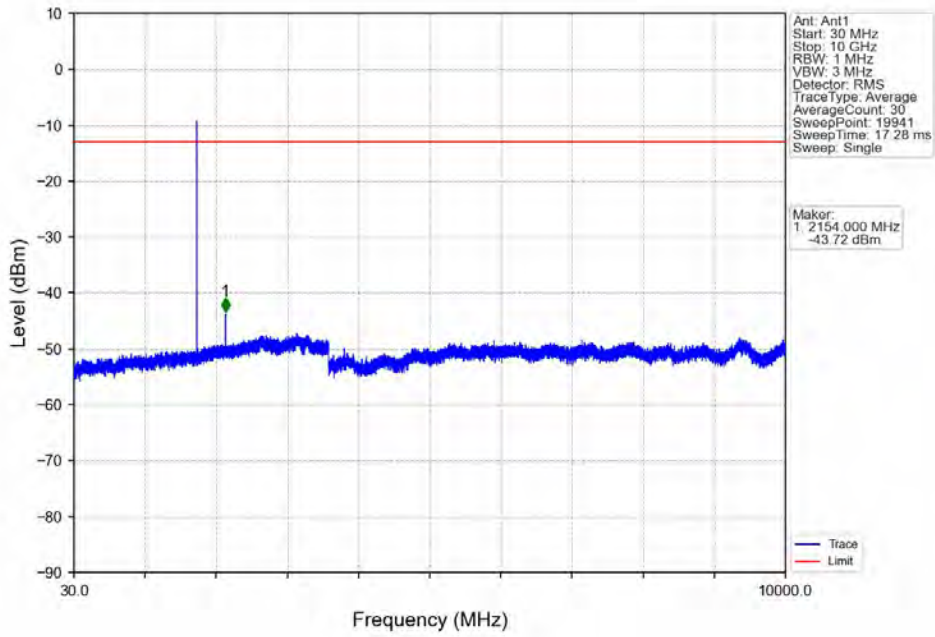
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



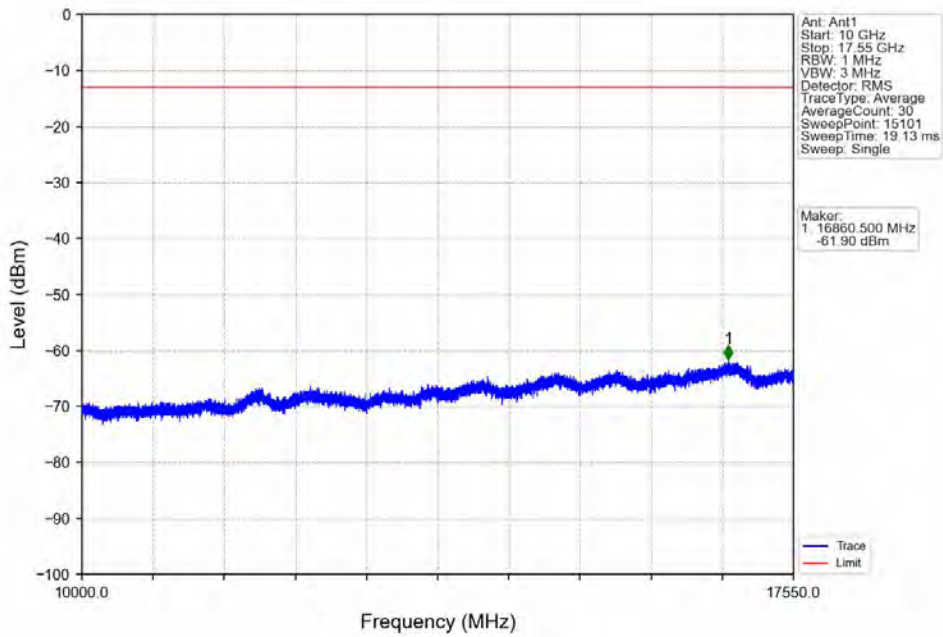
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



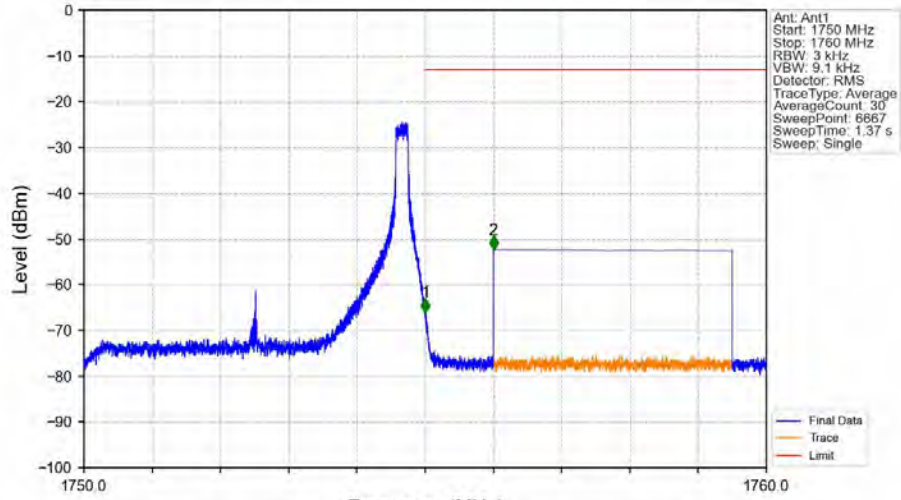
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_0_NTNV

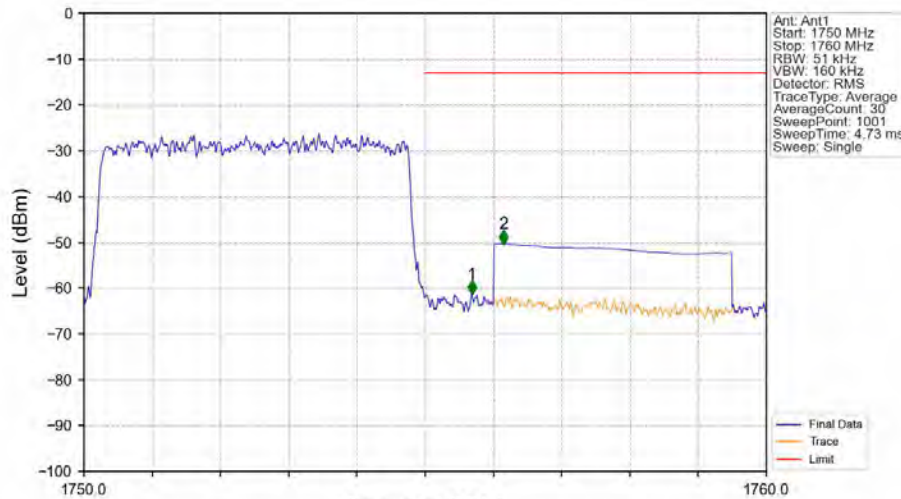


Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	1	1755.003	-66.08	-13	Pass
1755	1756	0.003	CHP	2	1756.001	-52.36	-13	Pass

Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



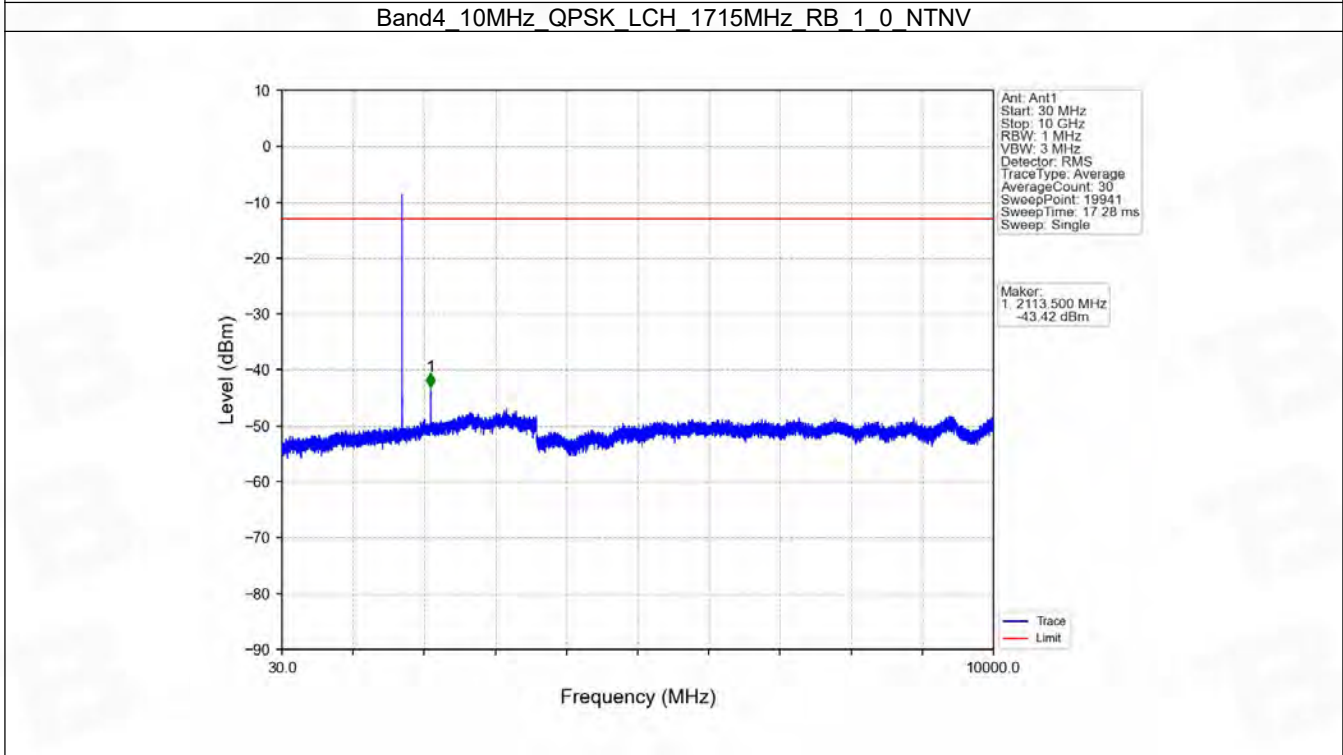
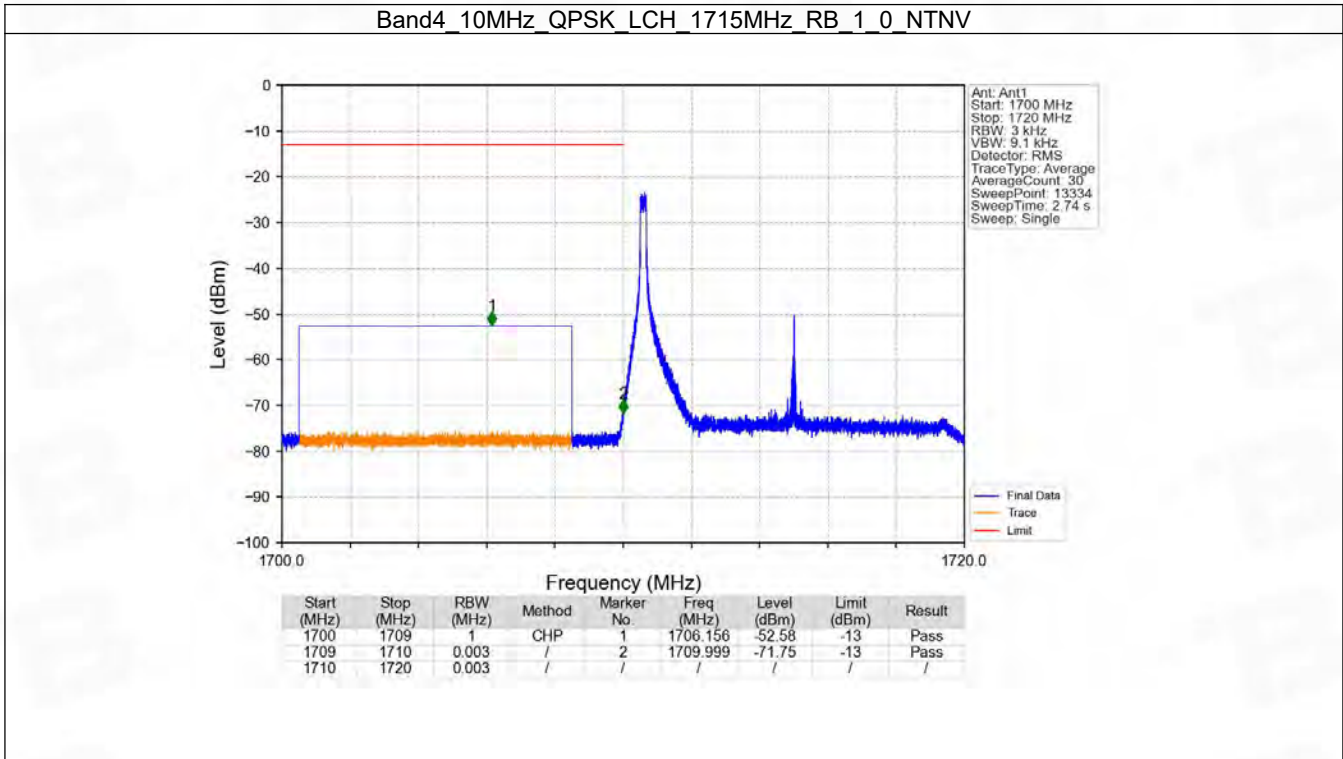
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.051	/	1	1755.680	-61.42	-13	Pass
1755	1760	1	CHP	2	1756.150	-50.38	-13	Pass

6.4 B4_10MHz

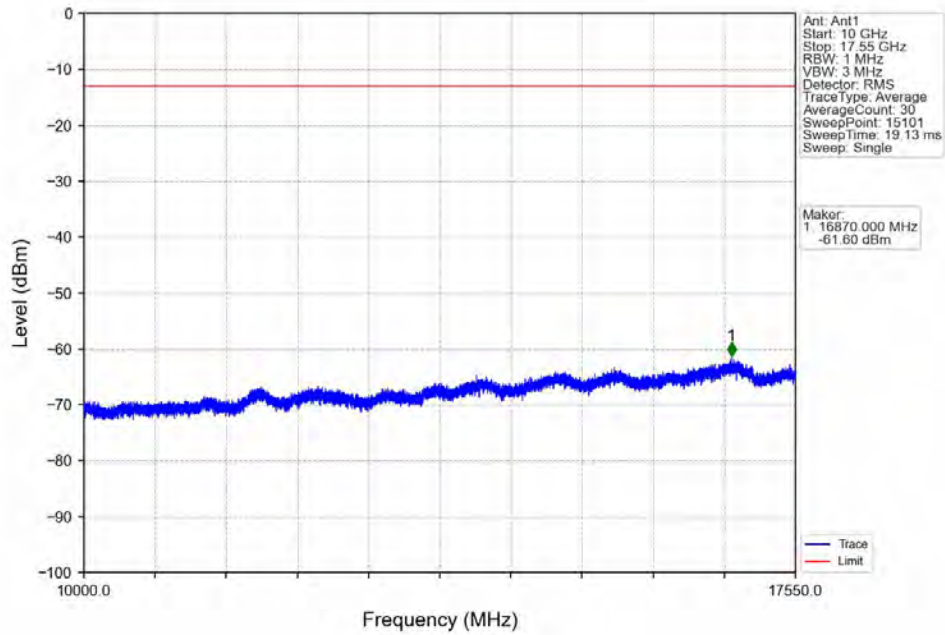
6.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

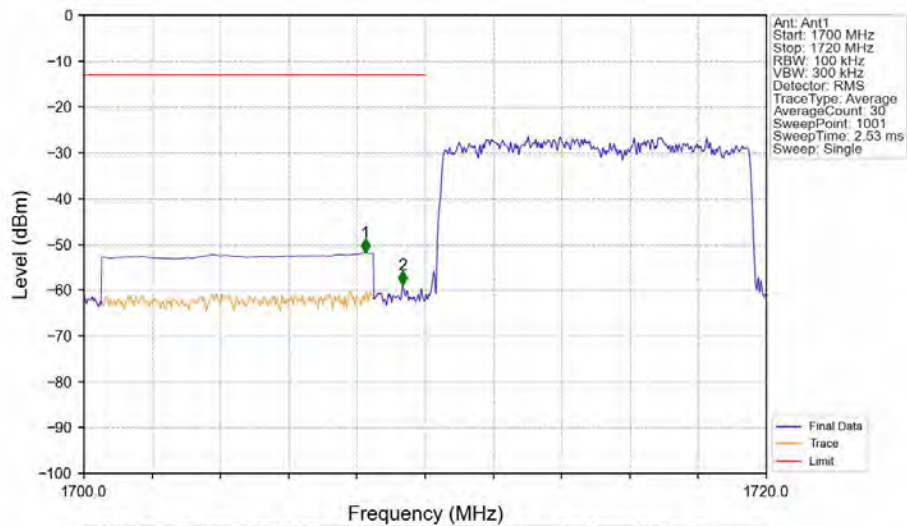
6.4.2 Test Graph



Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV

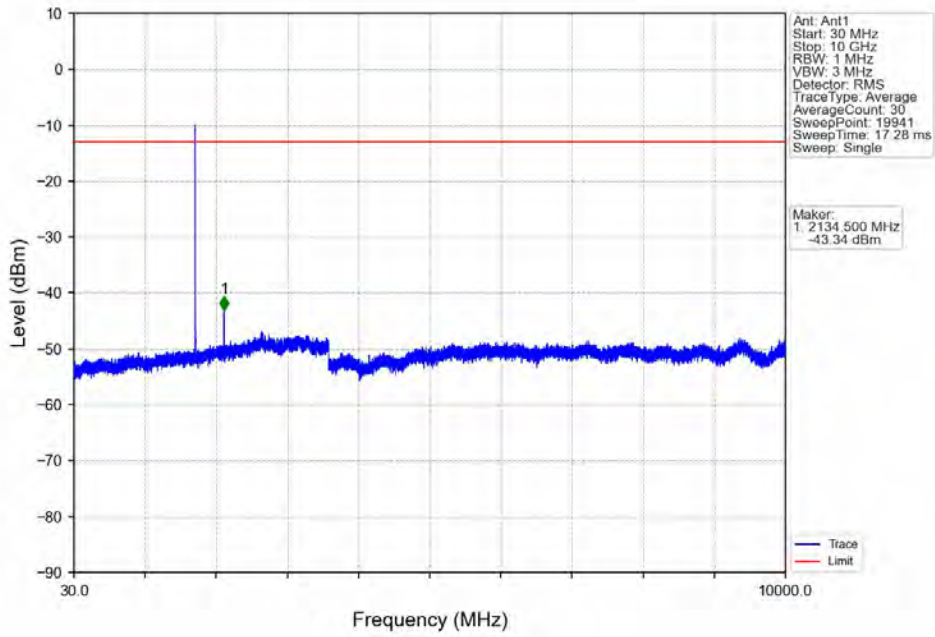


Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV

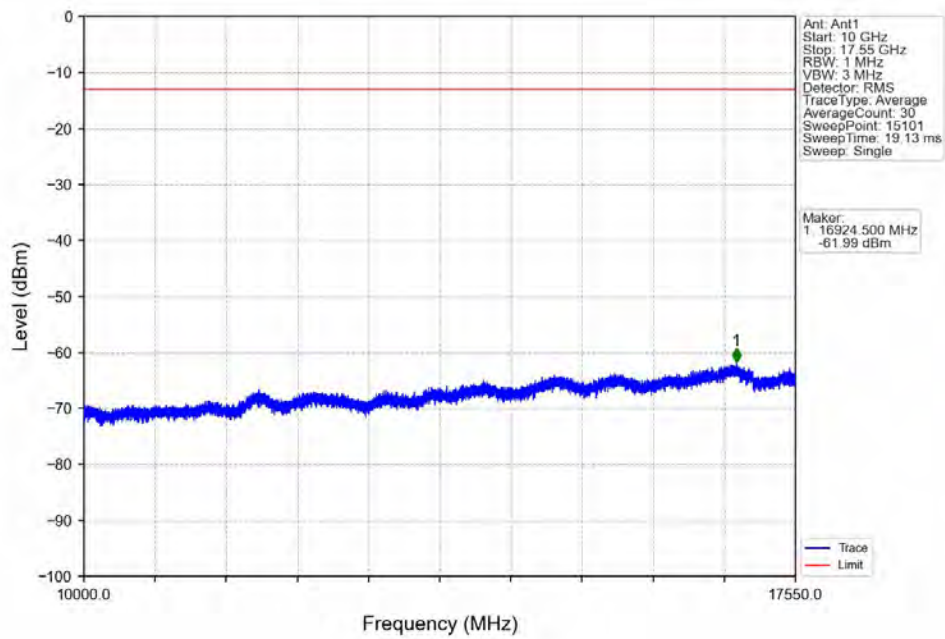


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.240	-51.80	-13	Pass
1709	1710	0.1	/	2	1709.340	-58.93	-13	Pass
1710	1720	0.1	/	/	/	/	/	/

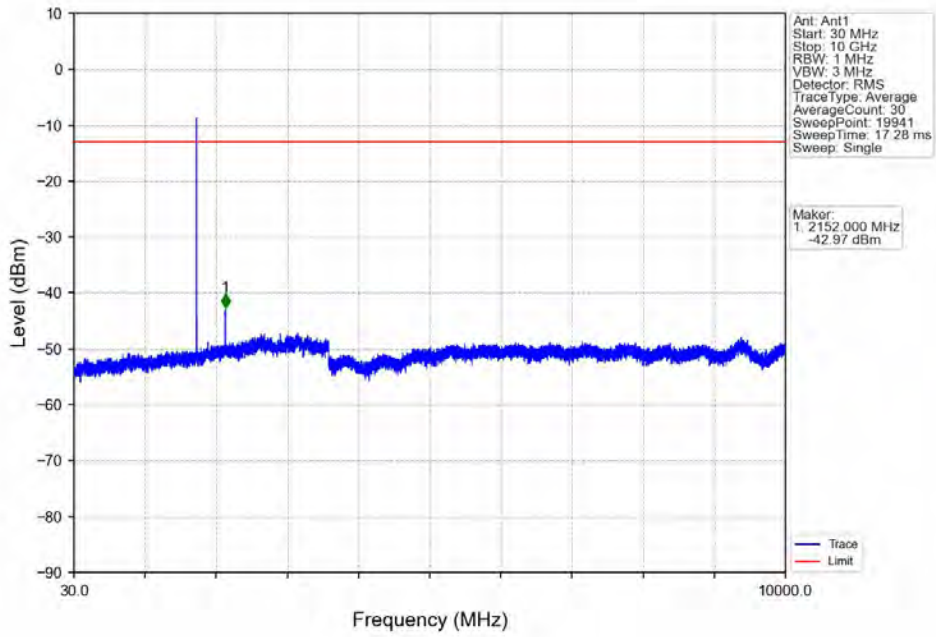
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



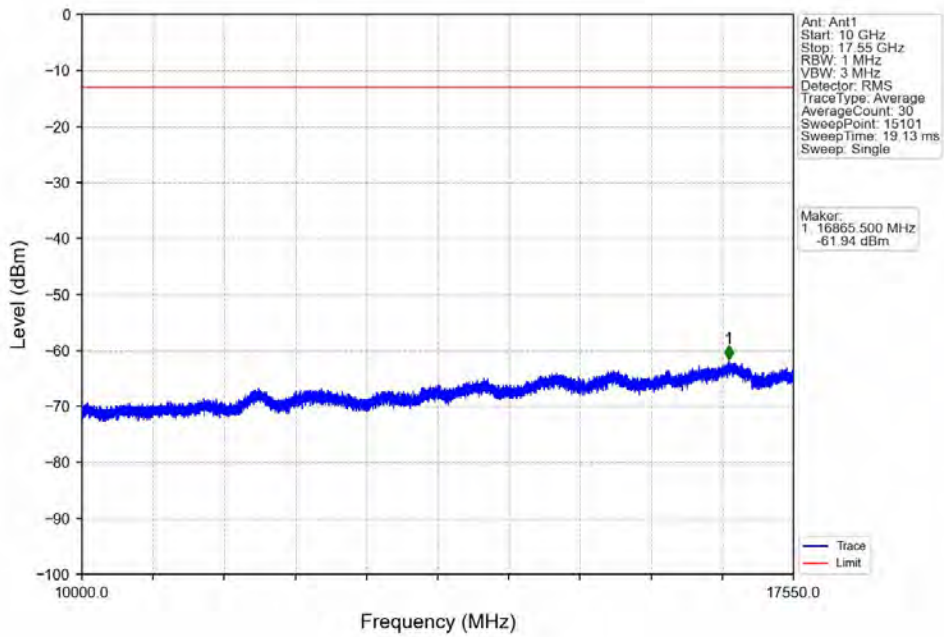
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



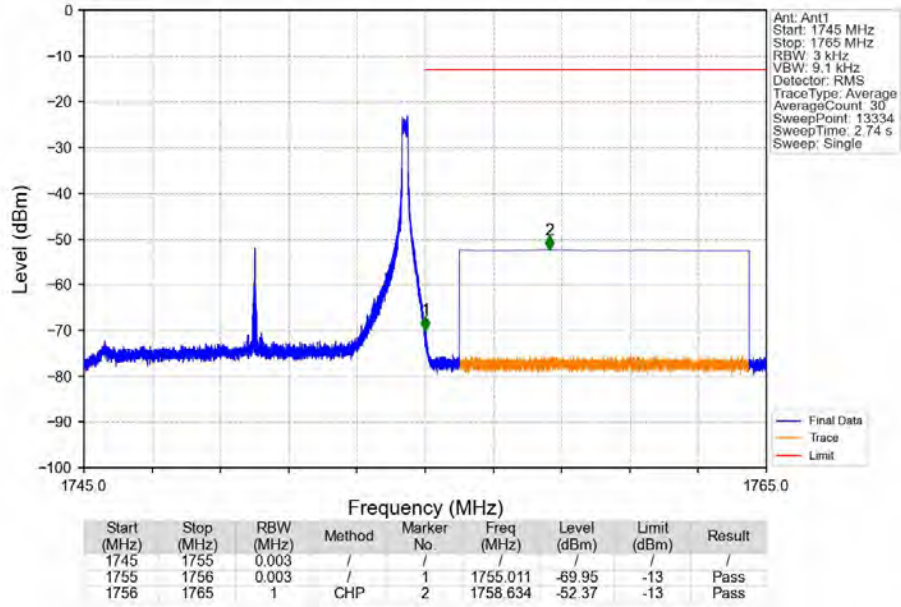
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



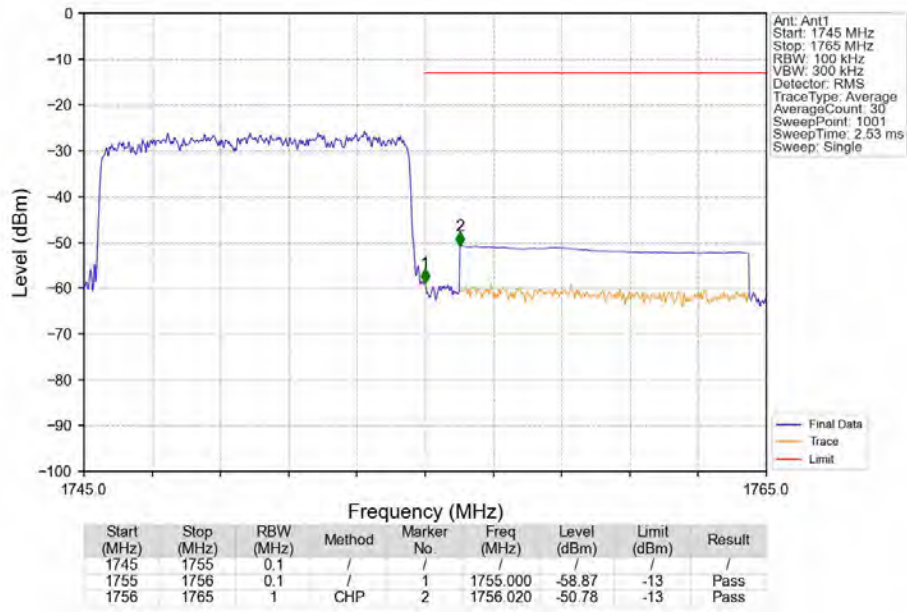
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



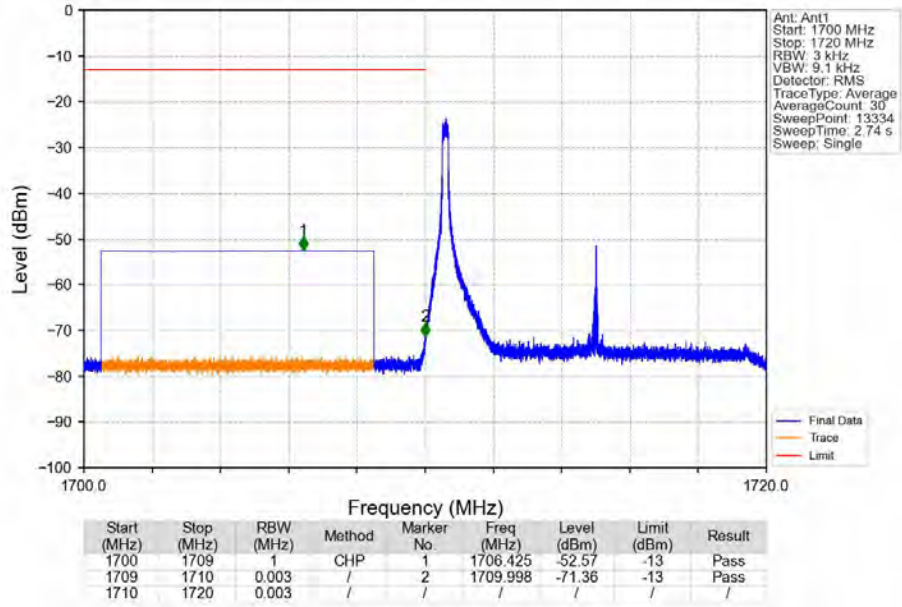
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_49_NTNV



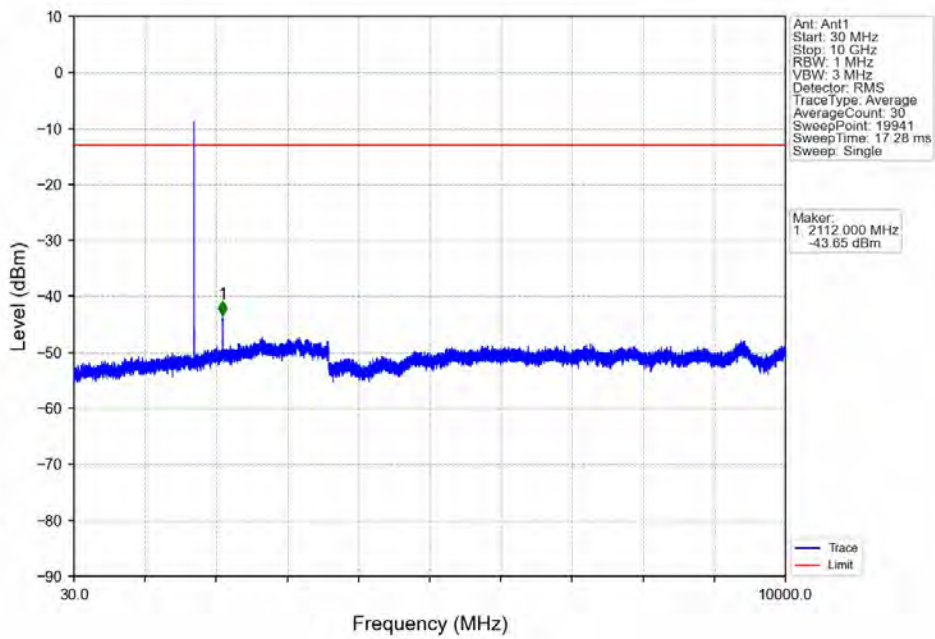
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



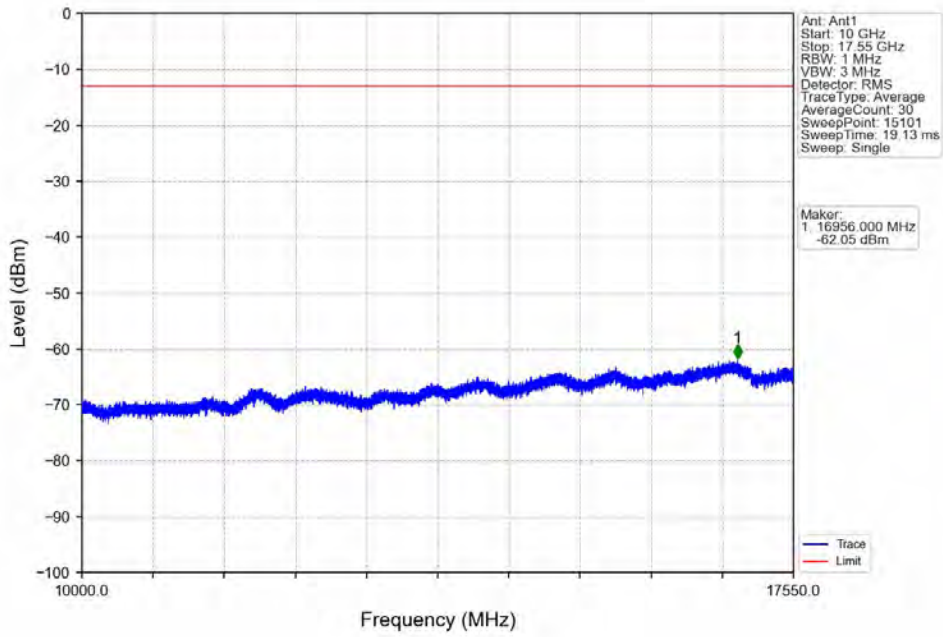
Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV



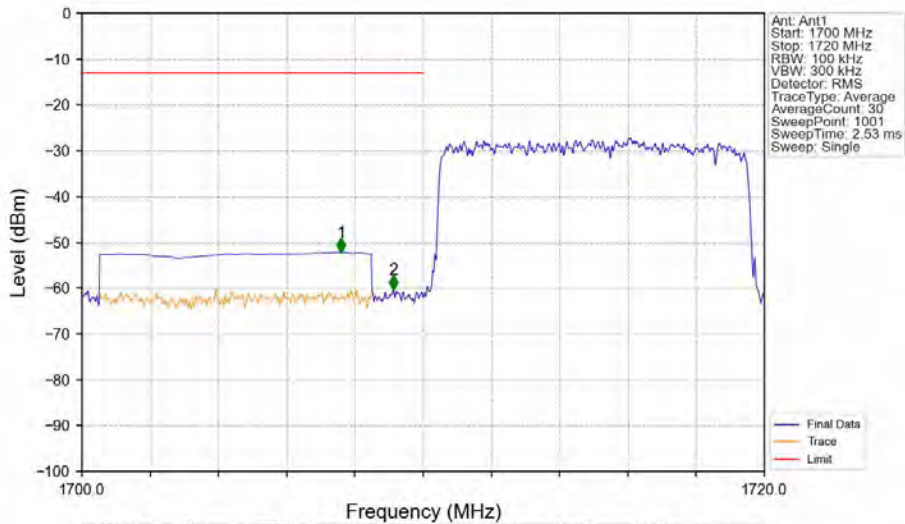
Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV



Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV

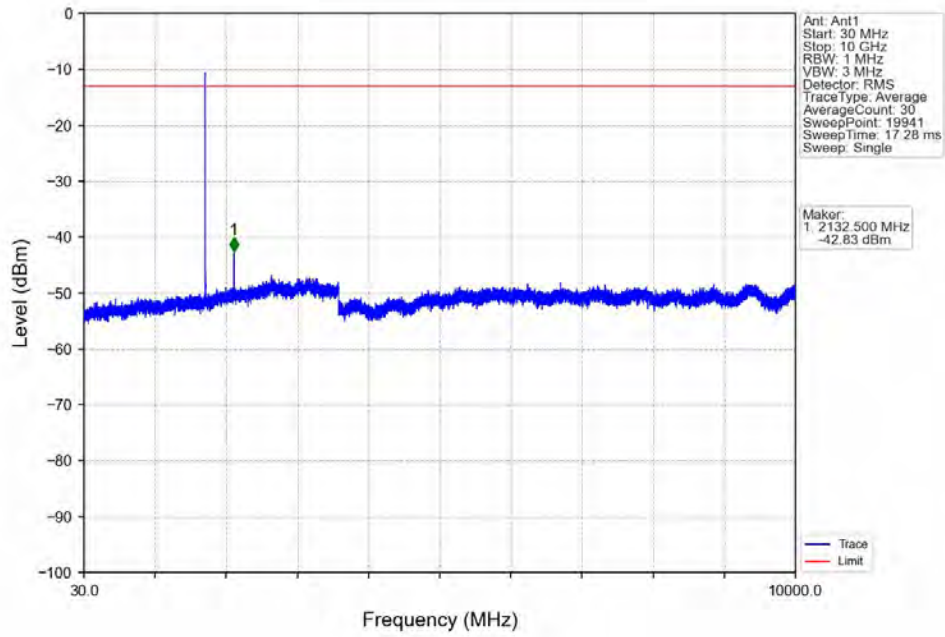


Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV

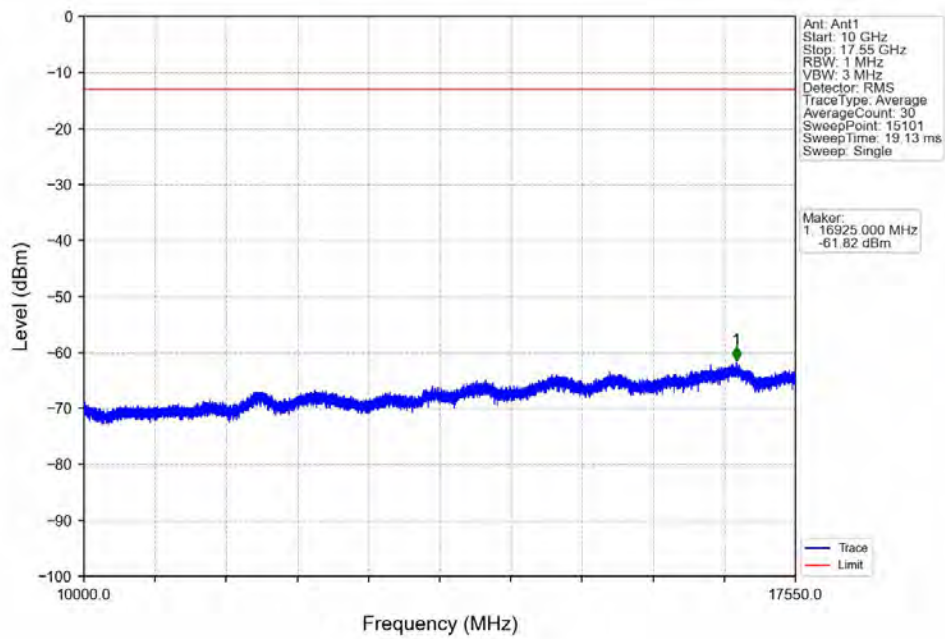


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1707.600	-52.18	-13	Pass
1709	1710	0.1	/	2	1709.120	-60.38	-13	Pass
1710	1720	0.1	/	/	/	/	/	/

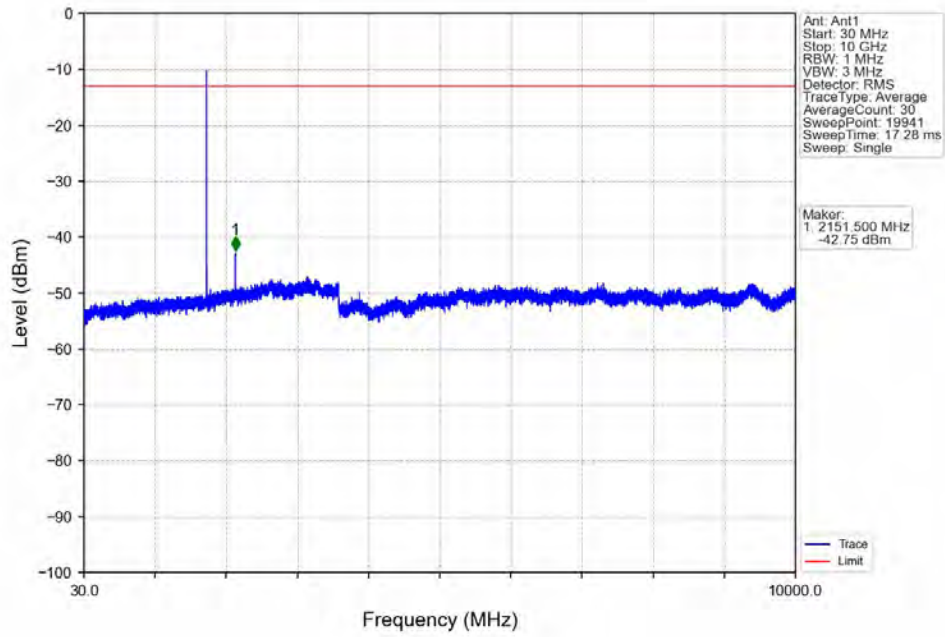
Band4 10MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



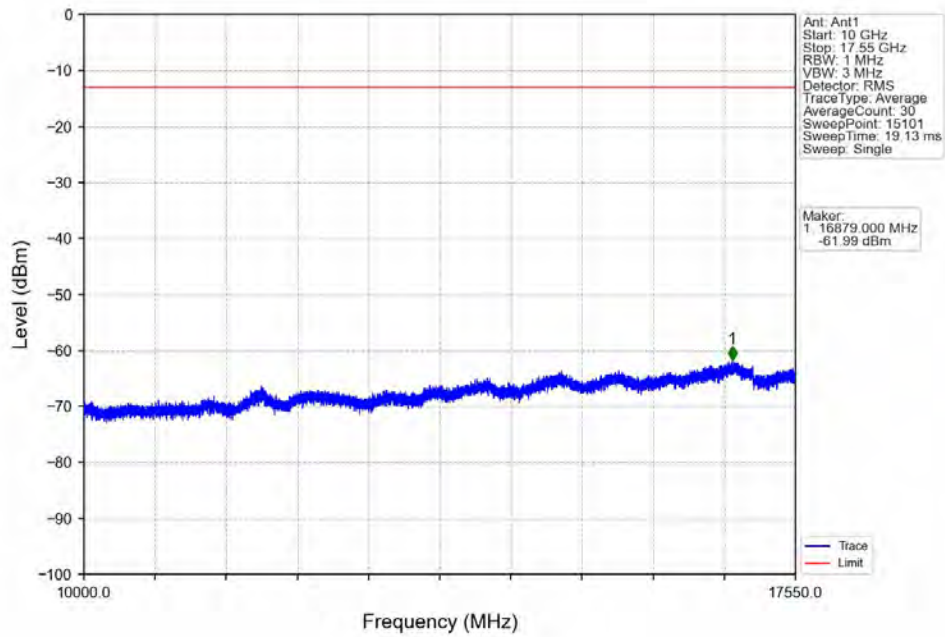
Band4 10MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



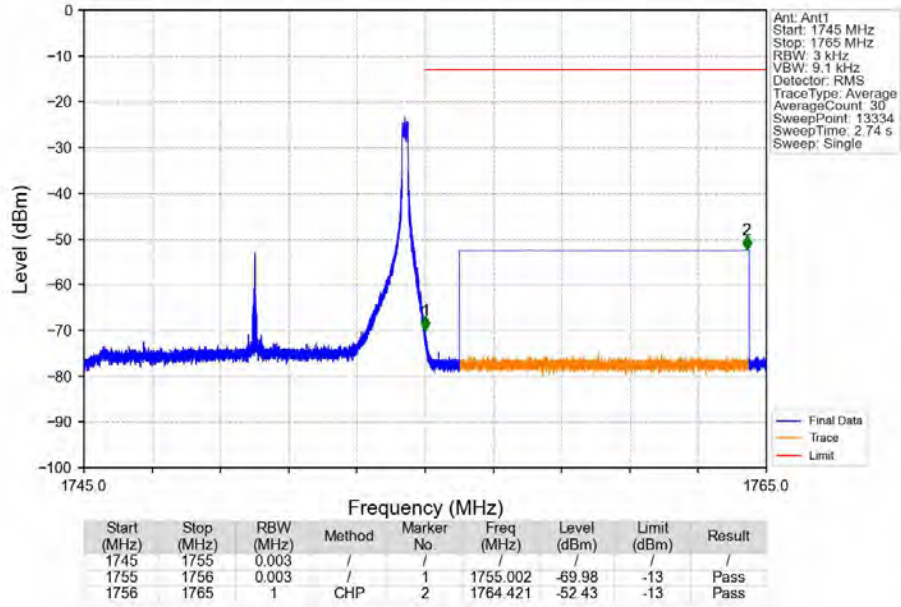
Band4_10MHz_16QAM_HCH_1750MHz_RB_1_0_NTNV



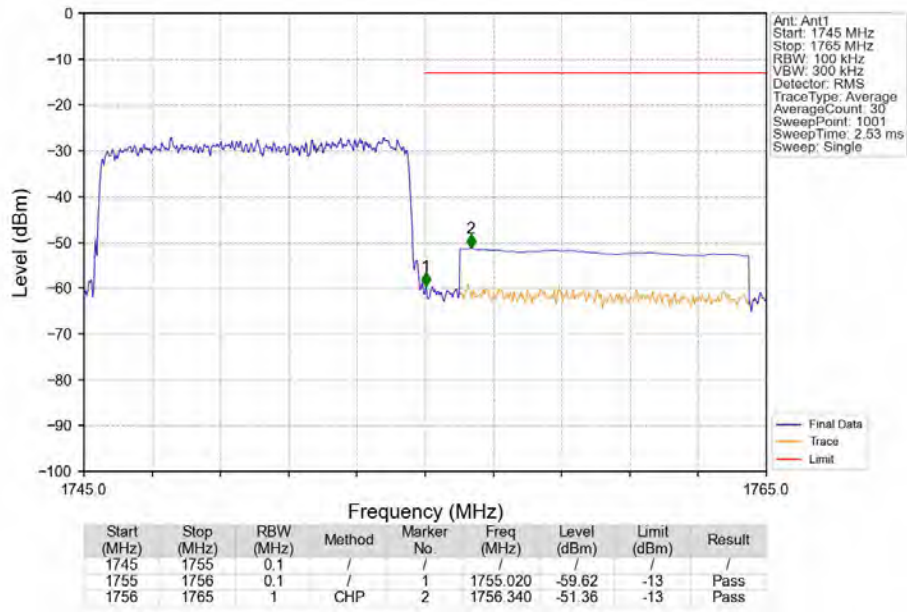
Band4_10MHz_16QAM_HCH_1750MHz_RB_1_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_1_49_NTV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTV

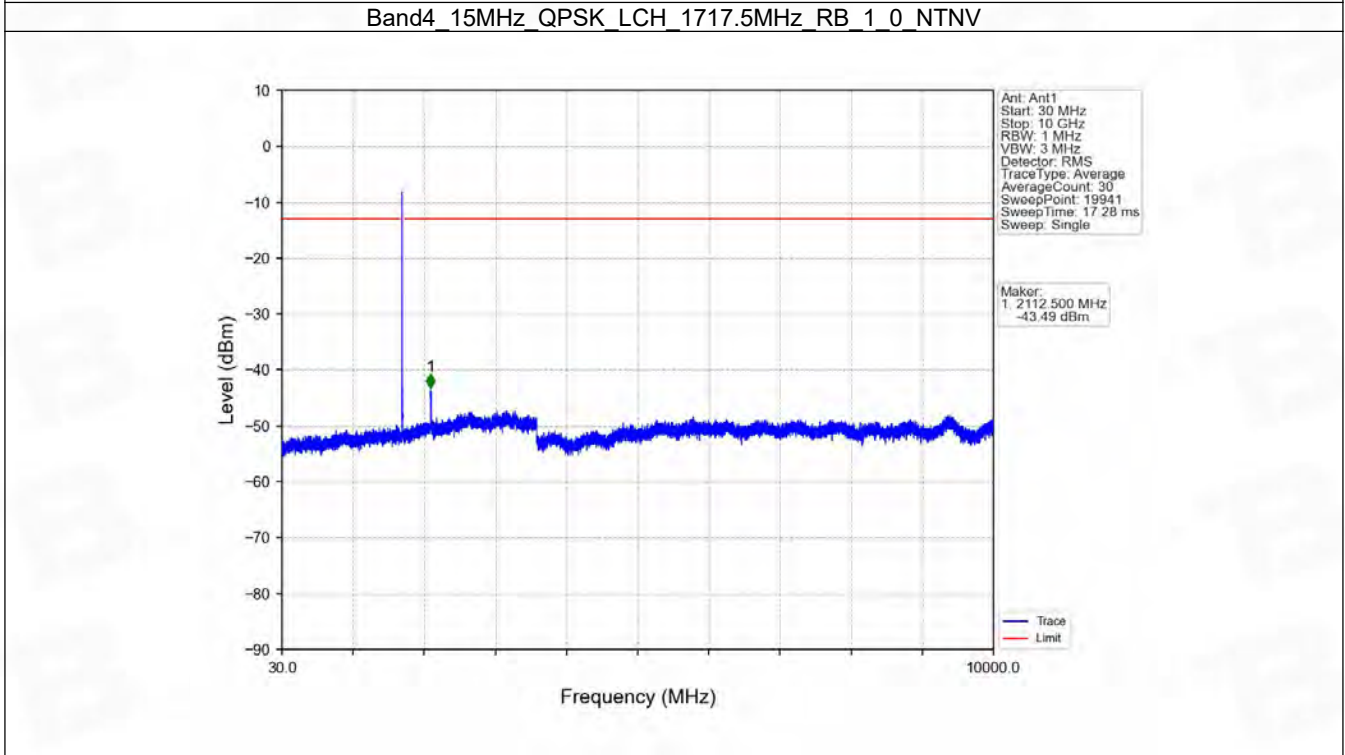
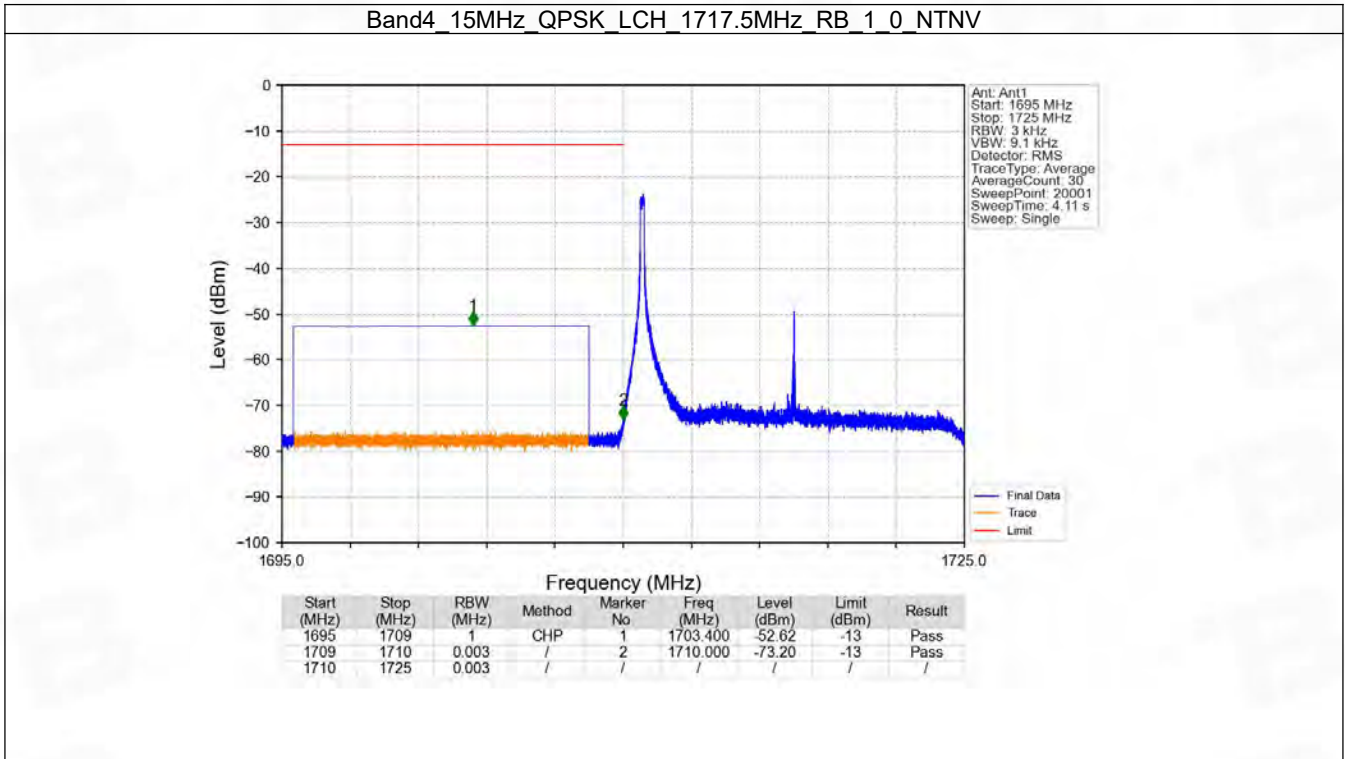


6.5 B4_15MHz

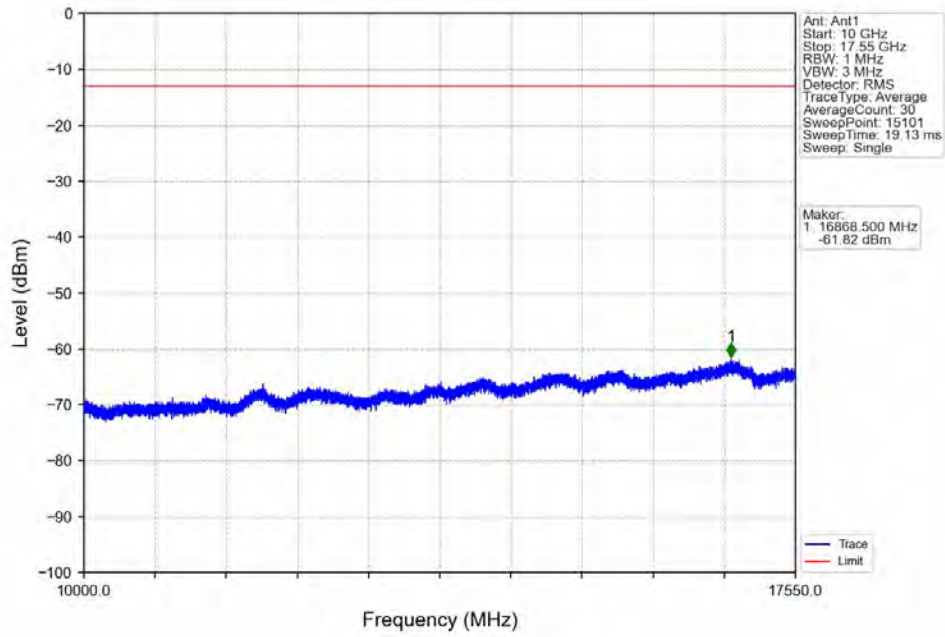
6.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
		1	74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
		1	74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

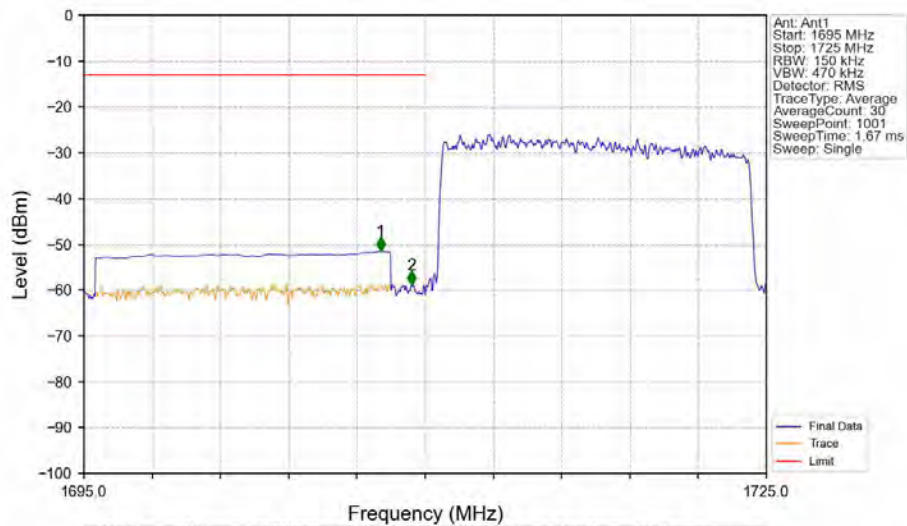
6.5.2 Test Graph



Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV

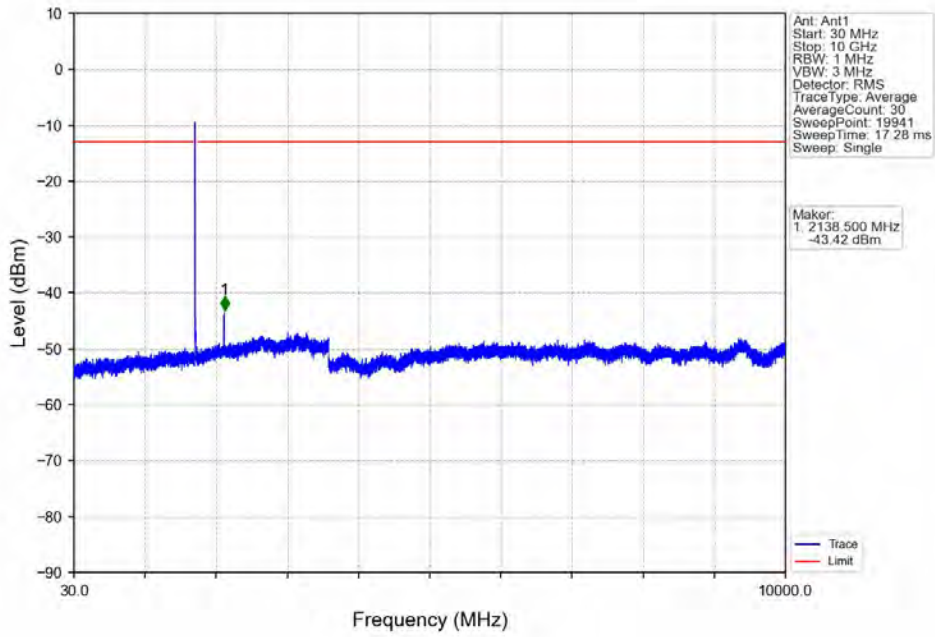


Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV

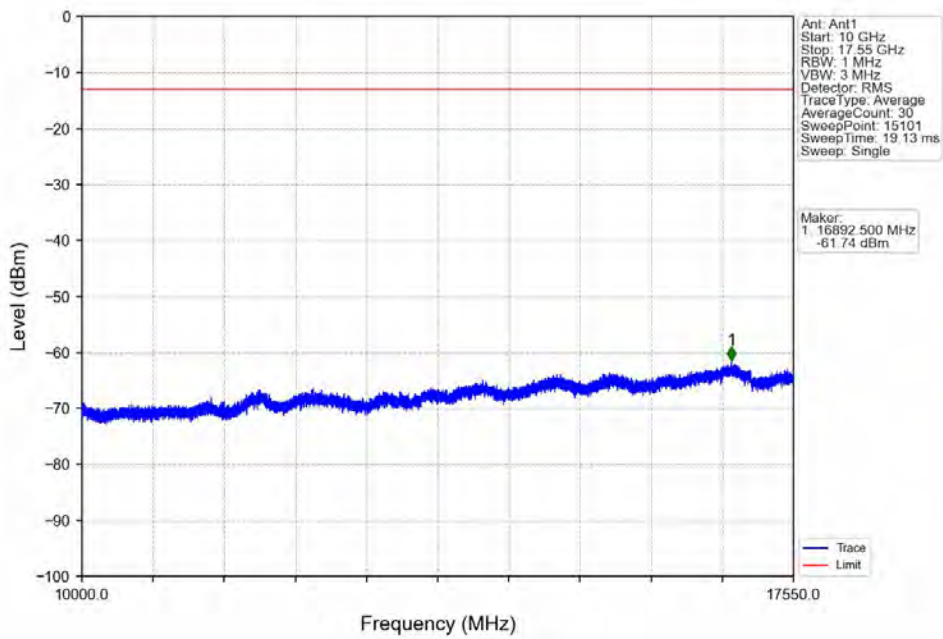


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.050	-51.57	-13	Pass
1709	1710	0.15	/	2	1709.400	-58.92	-13	Pass
1710	1725	0.15	/	/	/	/	/	/

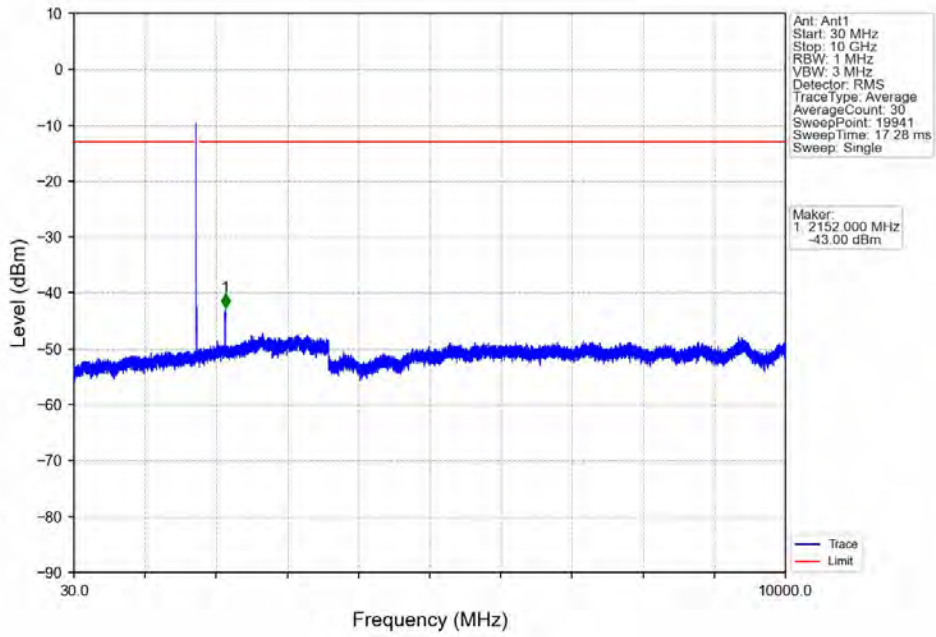
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



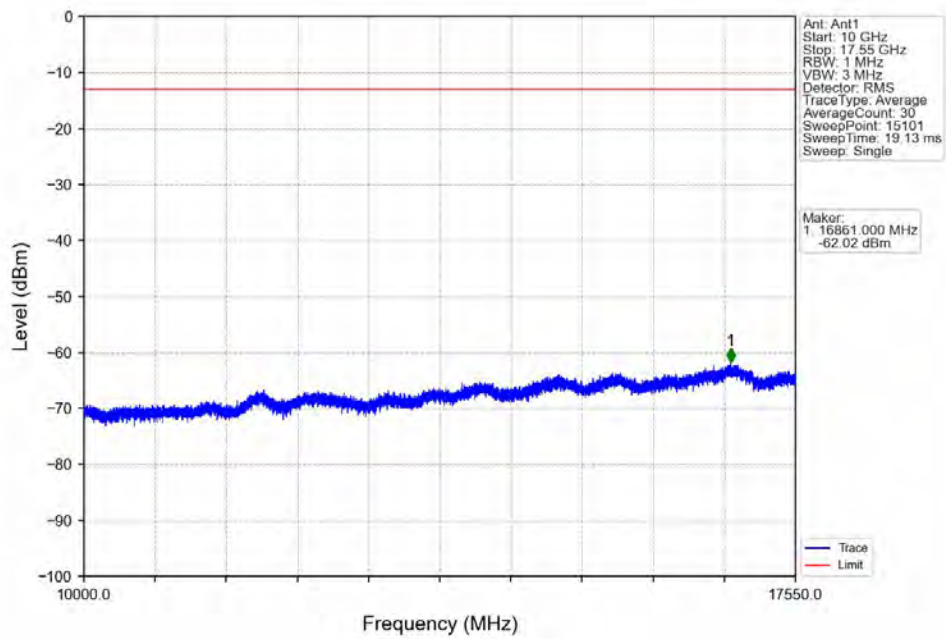
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



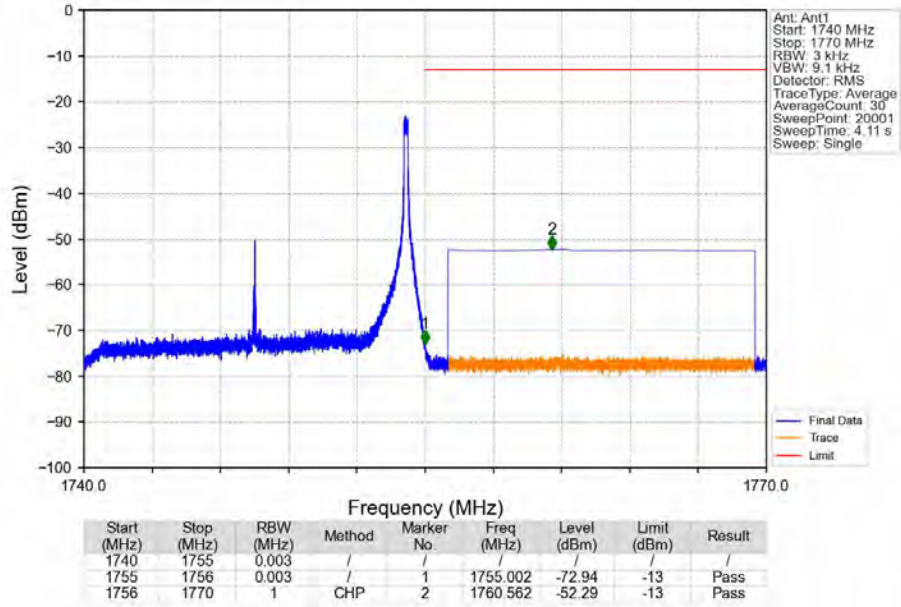
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV



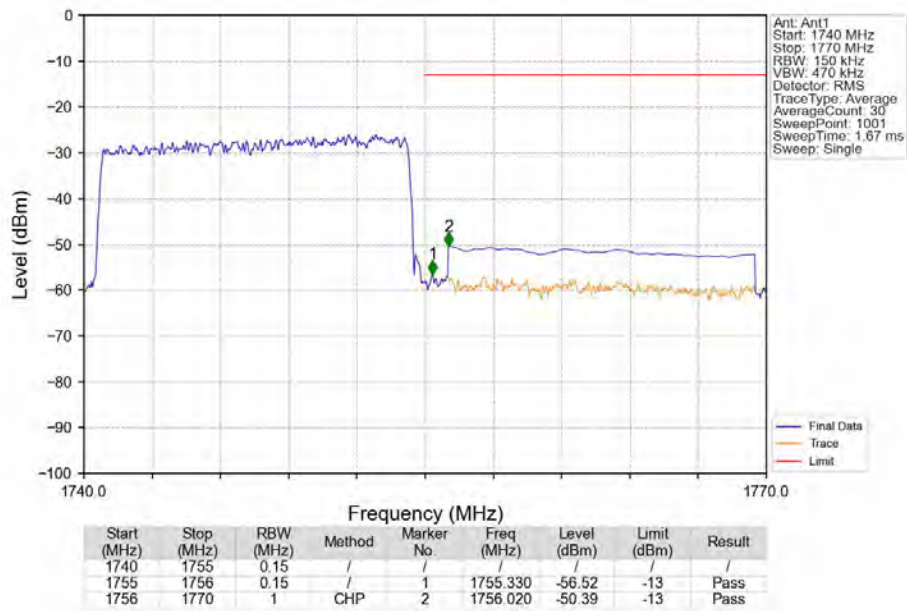
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV



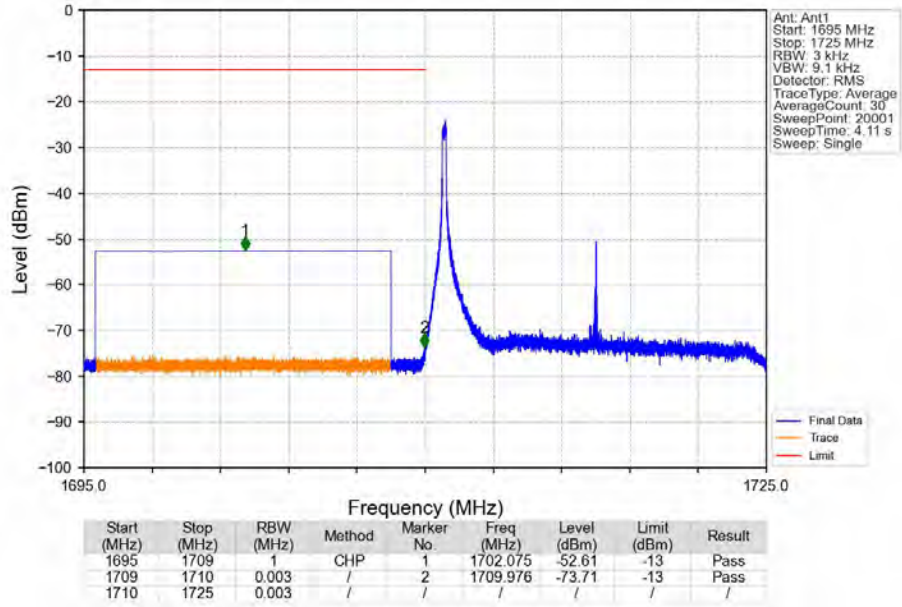
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_74_NTNV



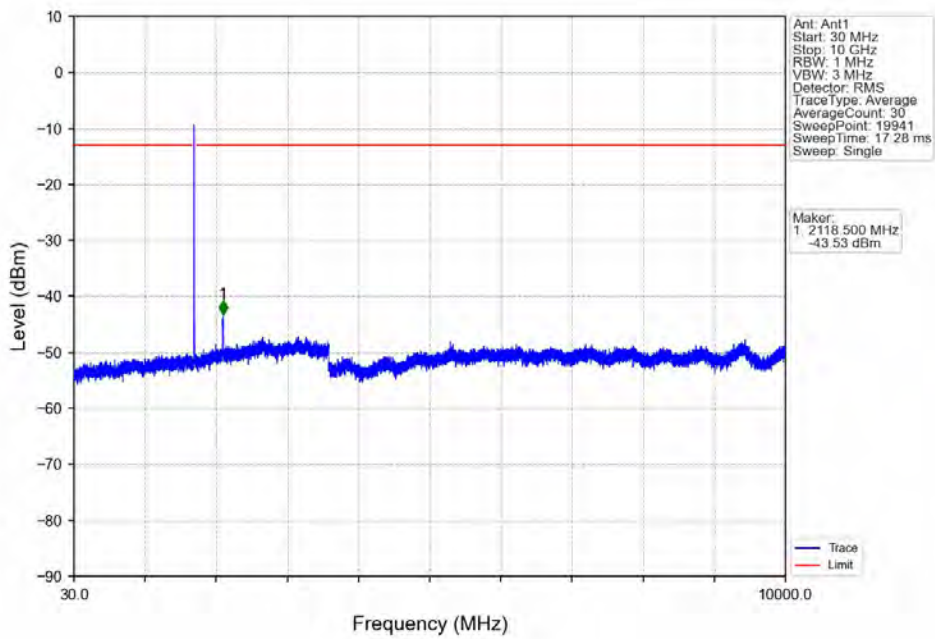
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



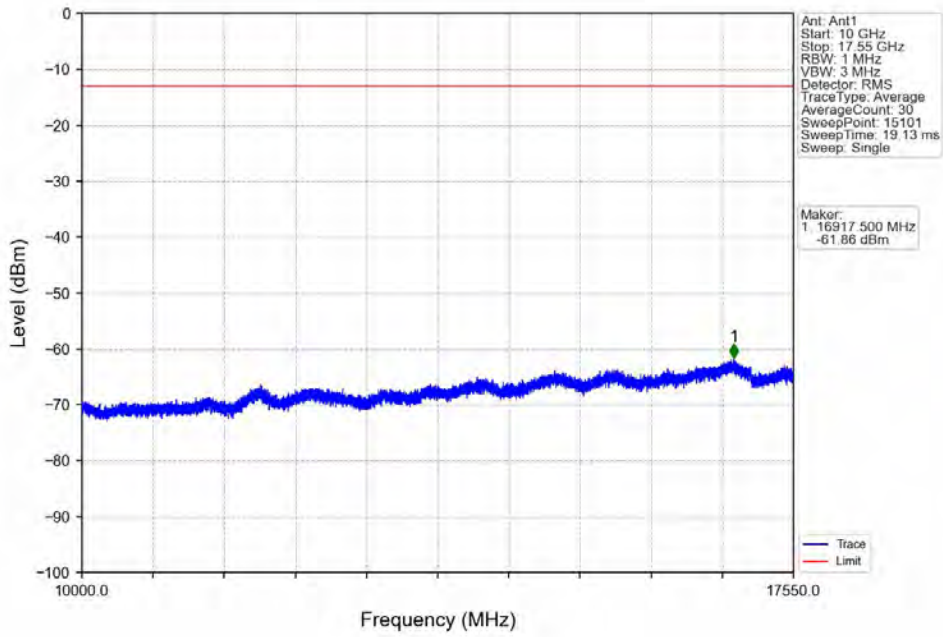
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



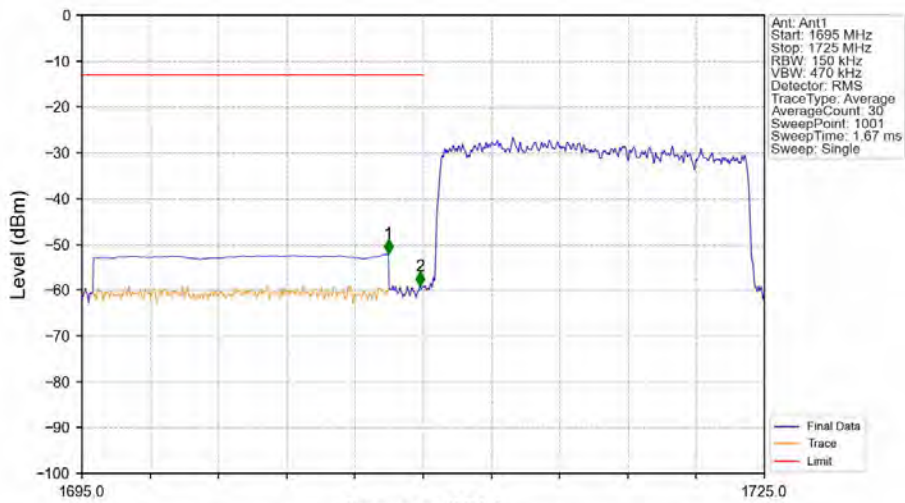
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV

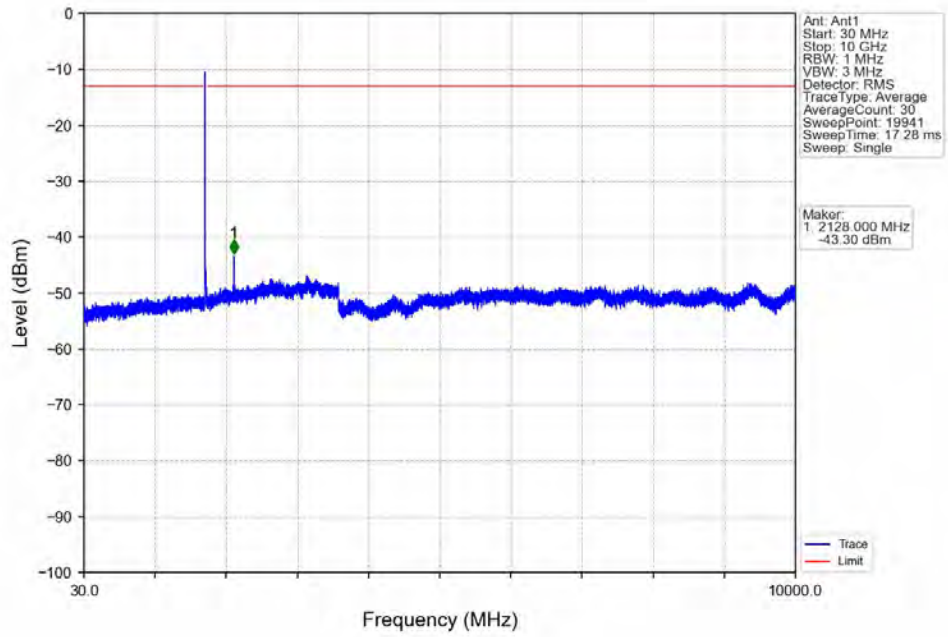


Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV

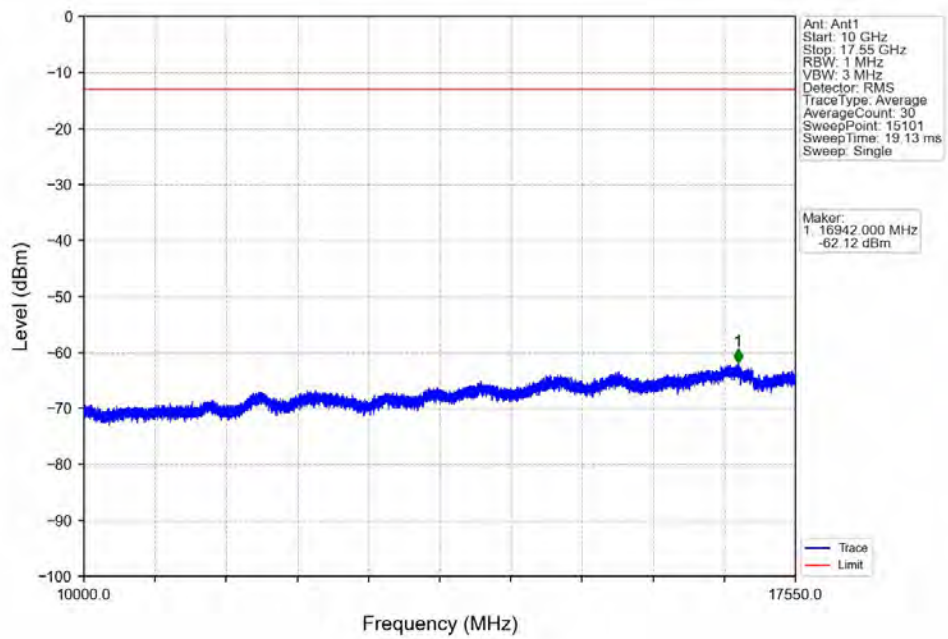


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.470	-52.10	-13	Pass
1709	1710	0.15	/	2	1709.850	-59.14	-13	Pass
1710	1725	0.15	/	/	/	/	/	/

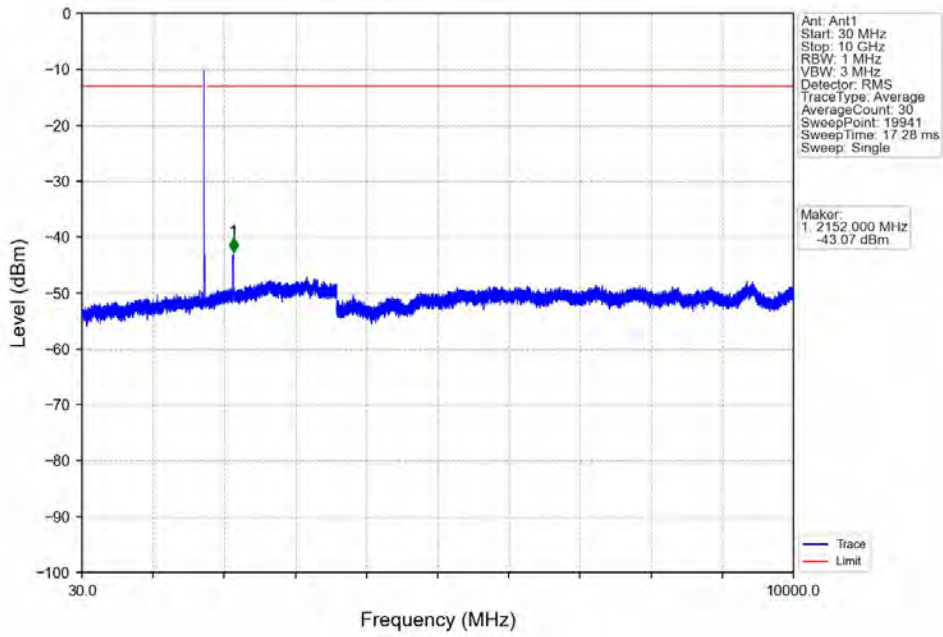
Band4 15MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



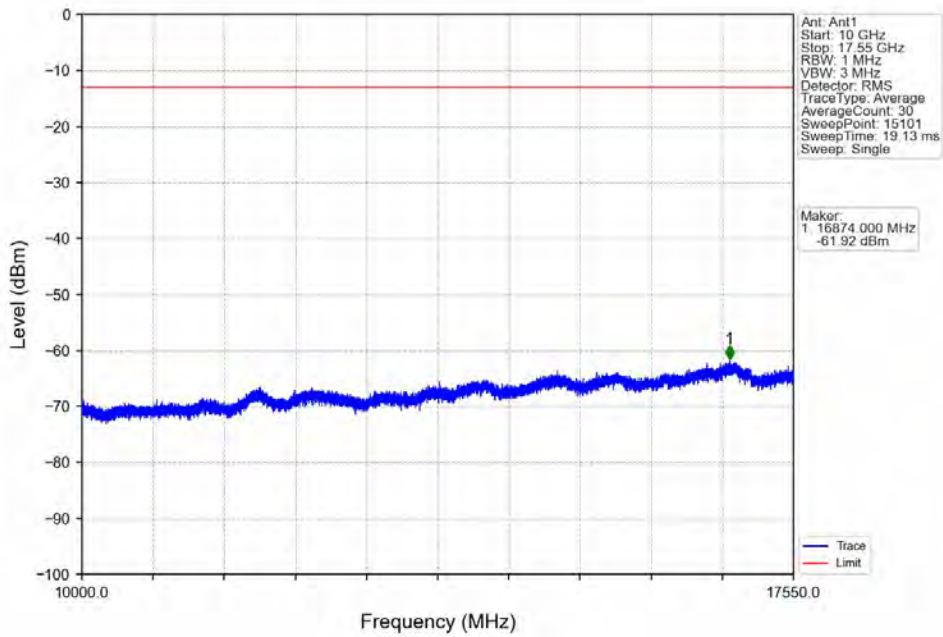
Band4 15MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



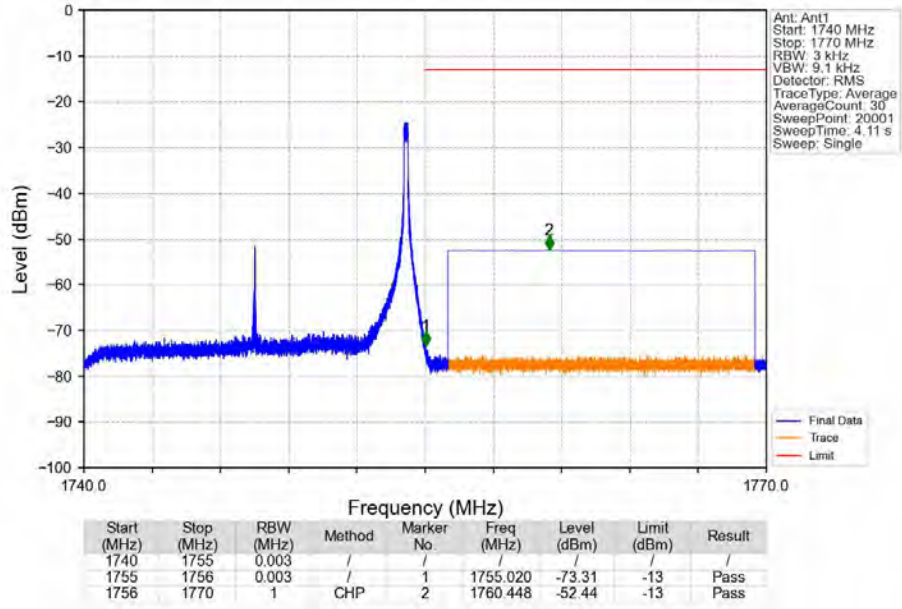
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_0_NTNV



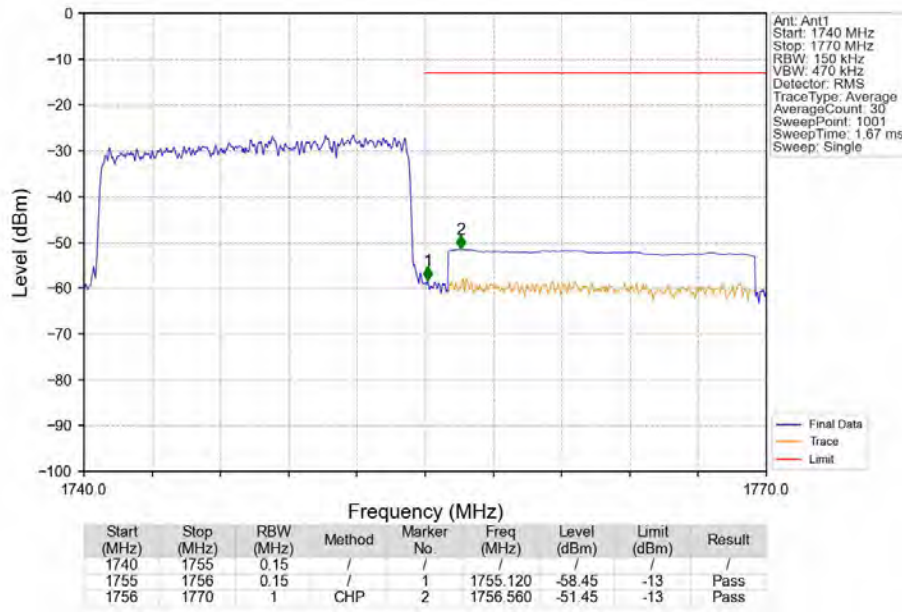
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_0_NTNV



Band4 15MHz 16QAM HCH 1747.5MHz RB 1 74 NTN



Band4 15MHz 16QAM HCH 1747.5MHz RB 75_0 NTN

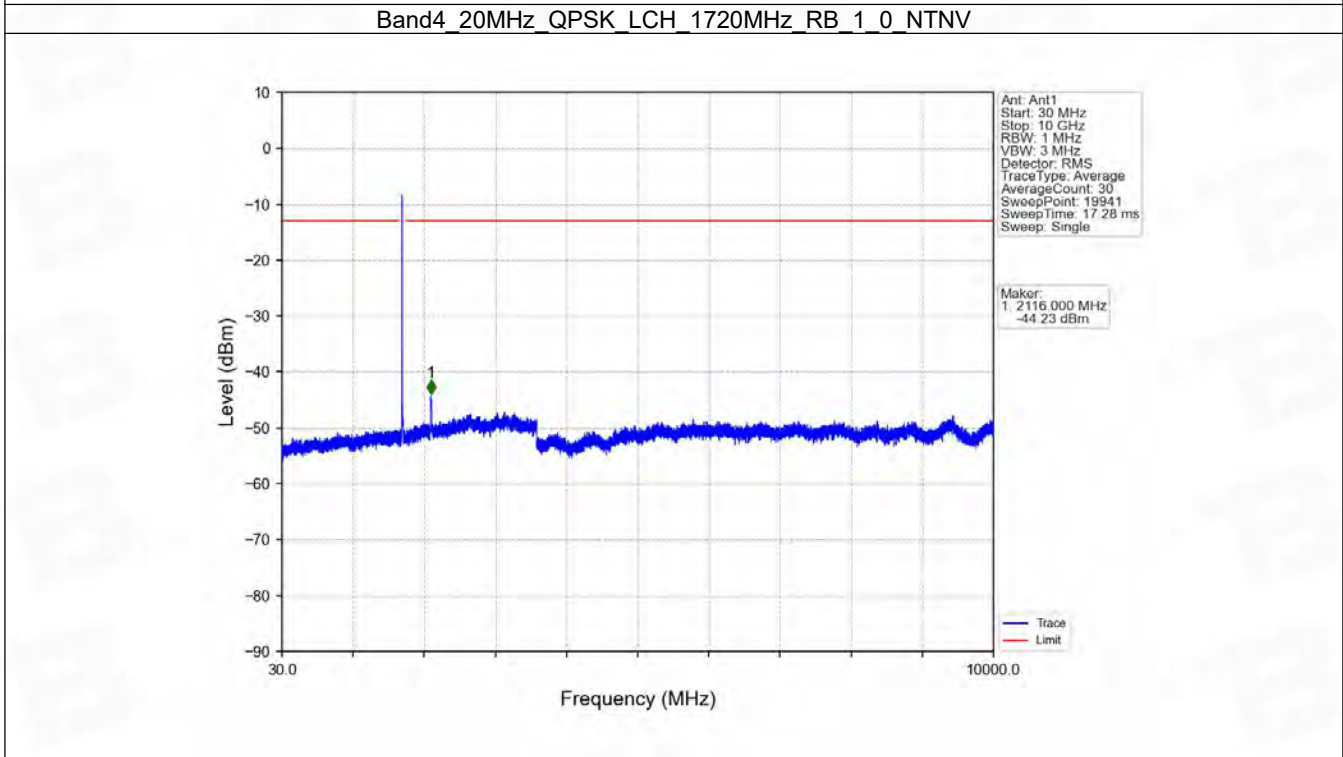
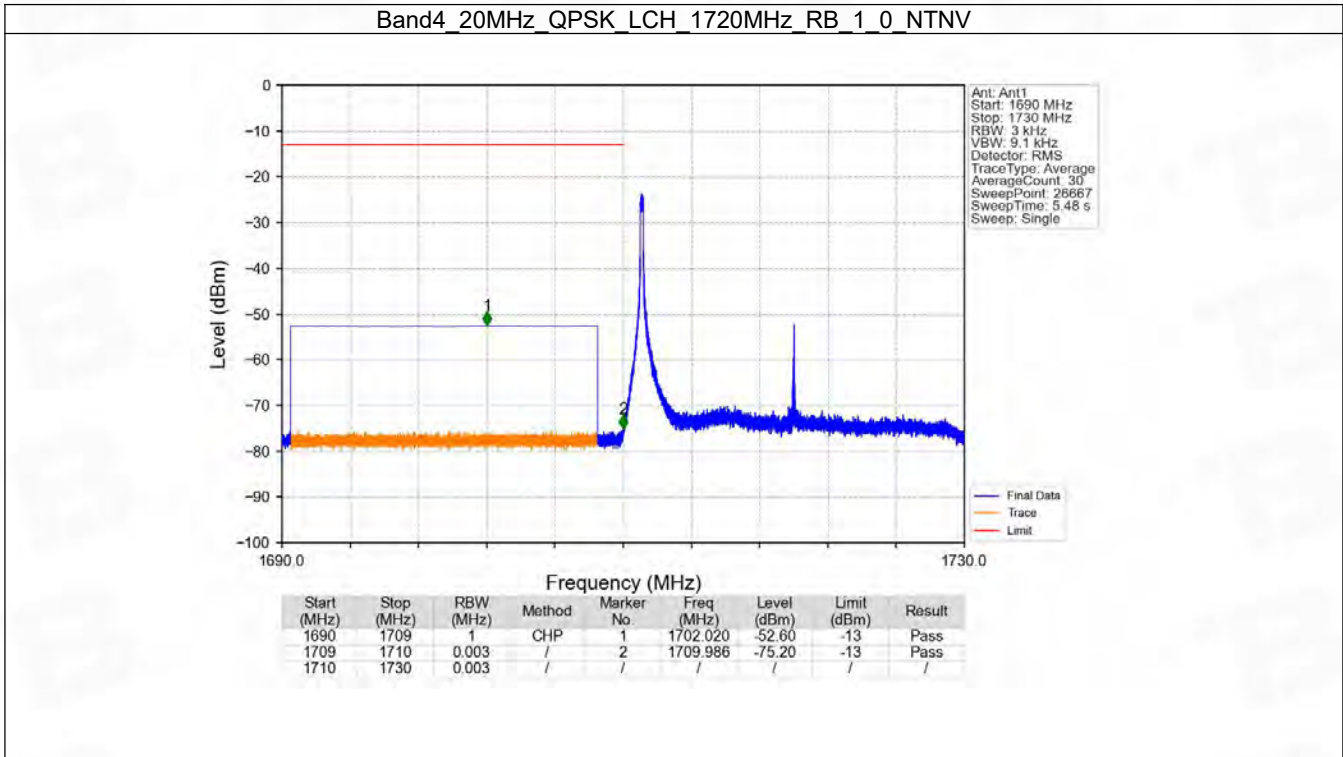


6.6 B4_20MHz

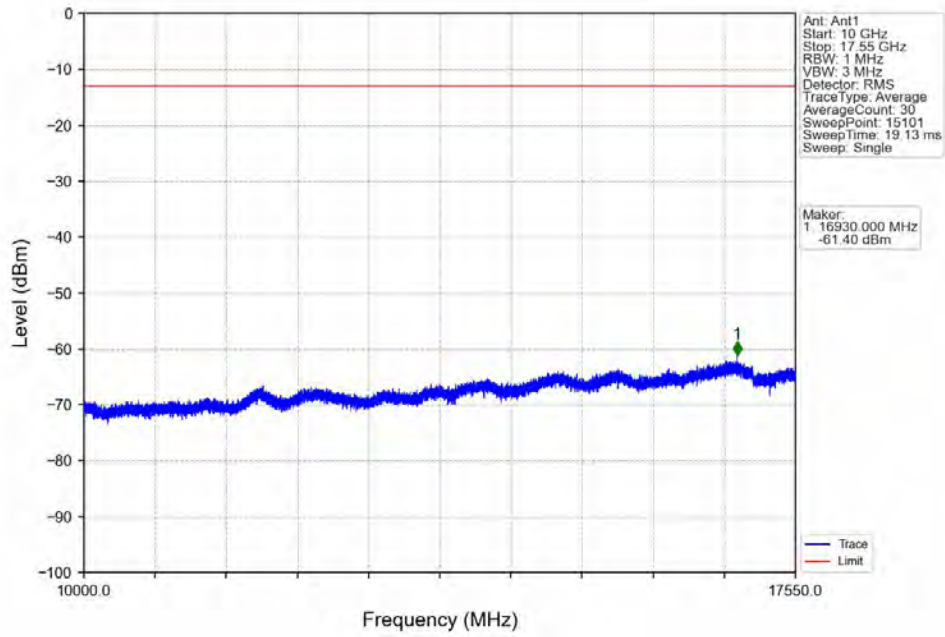
6.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

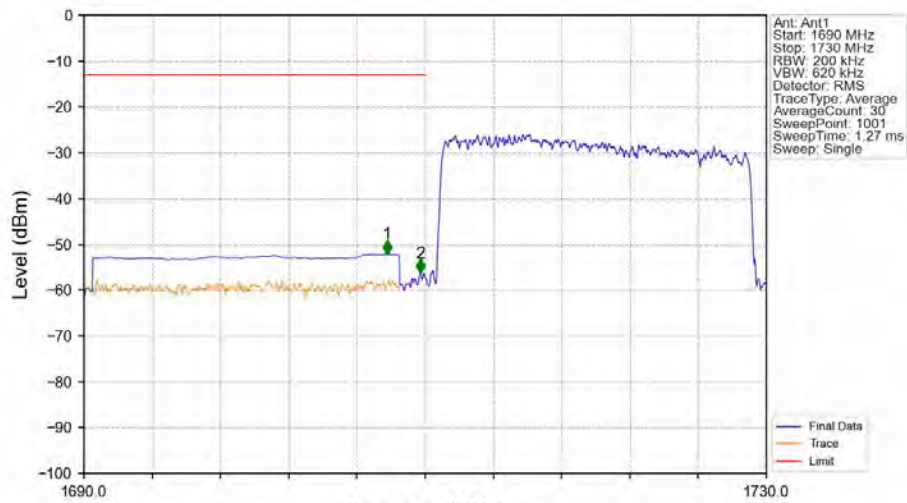
6.6.2 Test Graph



Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV

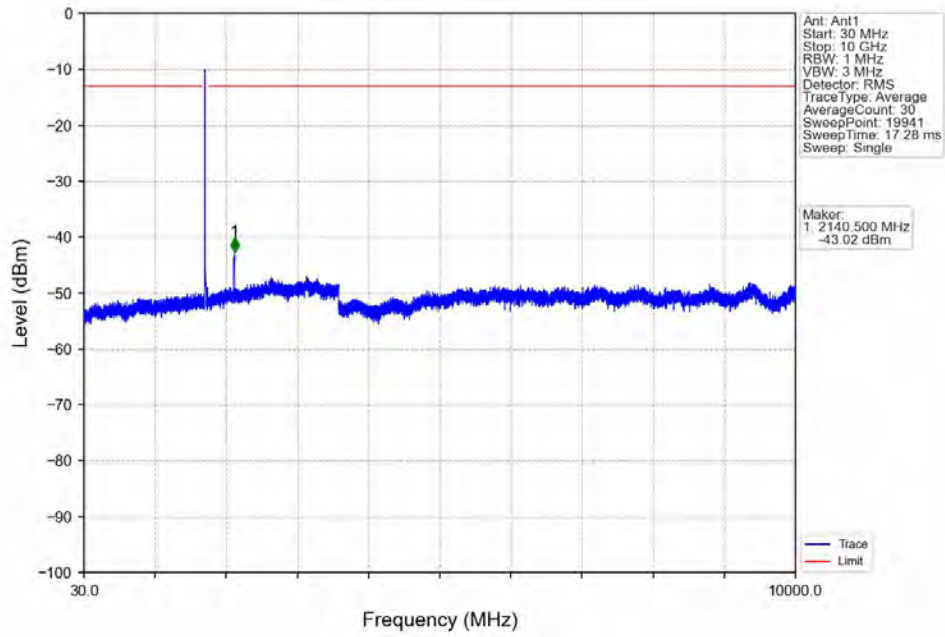


Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV

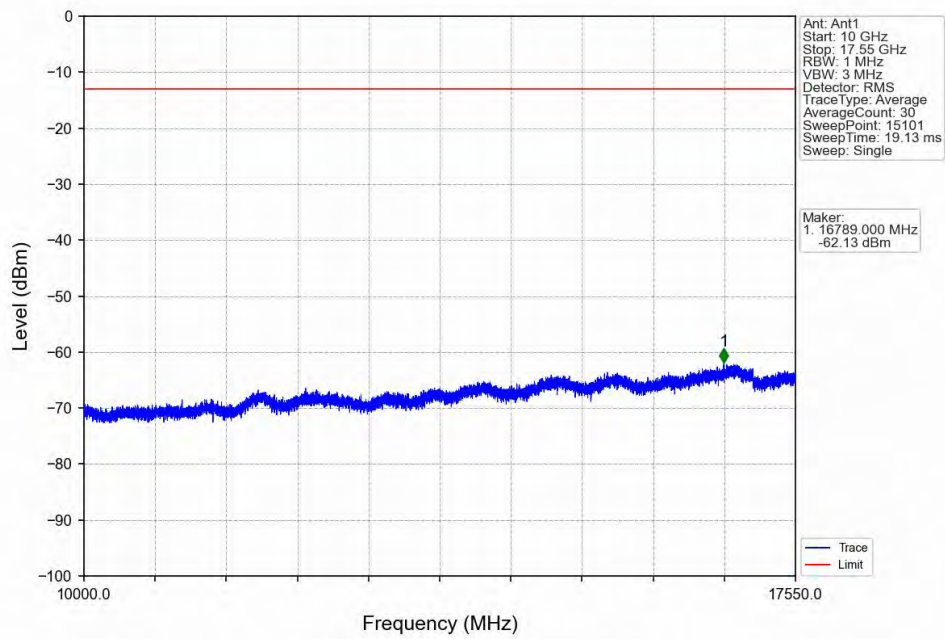


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1707.760	-52.13	-13	Pass
1709	1710	0.2	/	2	1709.720	-56.22	-13	Pass
1710	1730	0.2	/	/	/	/	/	/

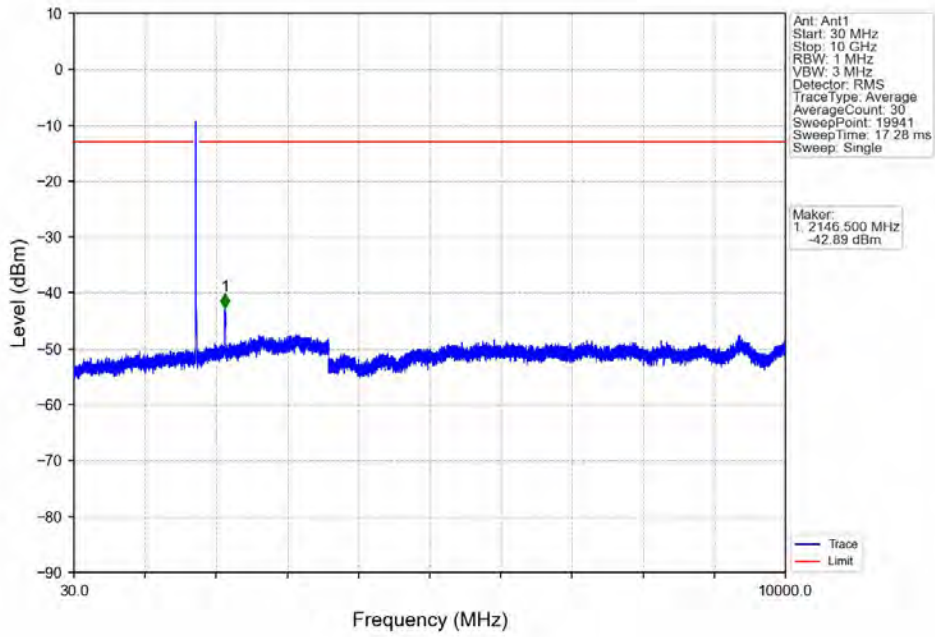
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



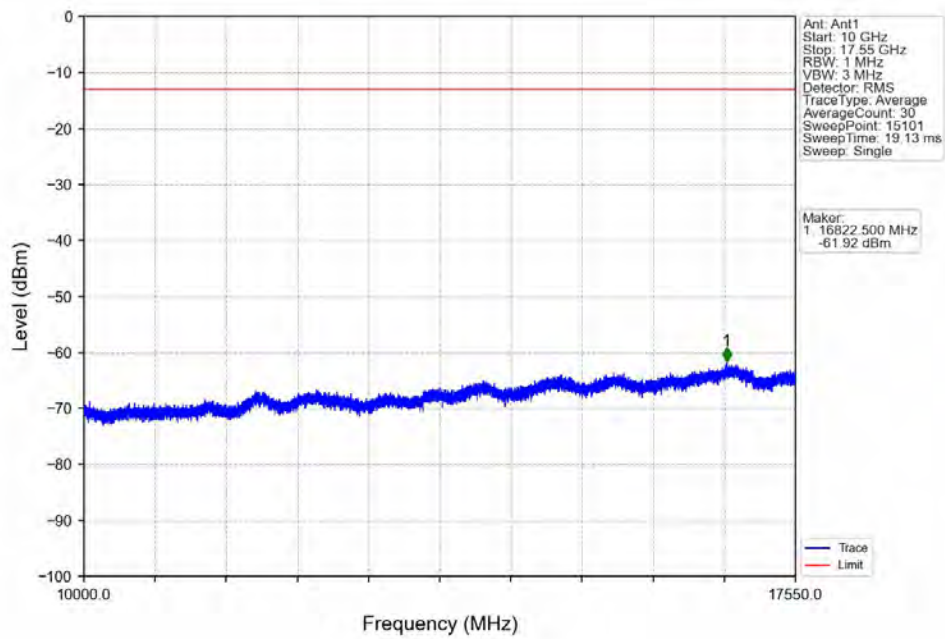
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



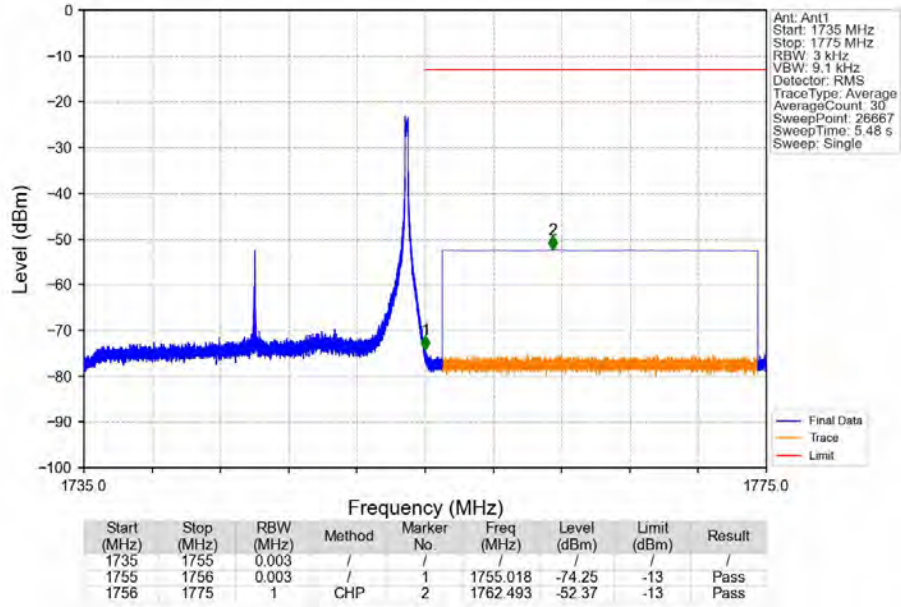
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



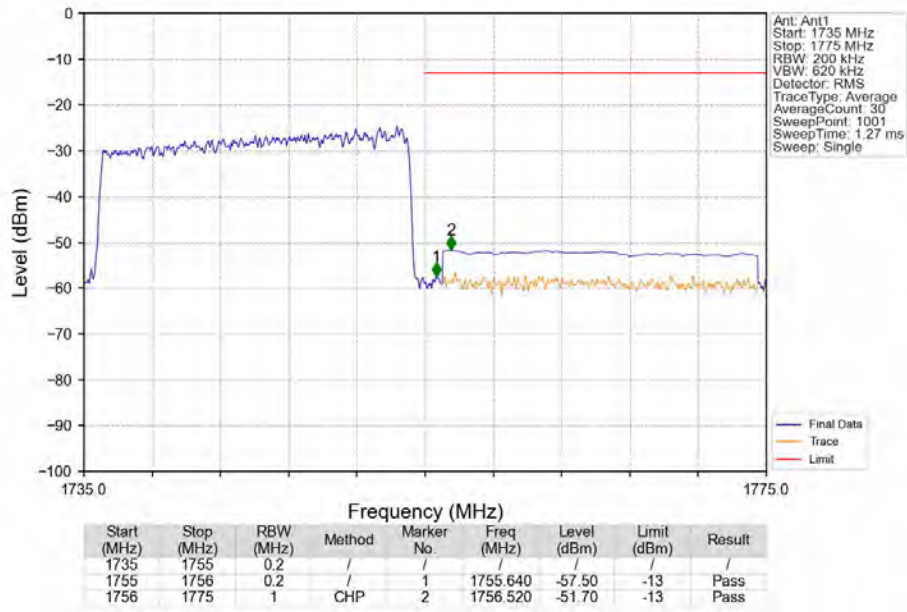
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



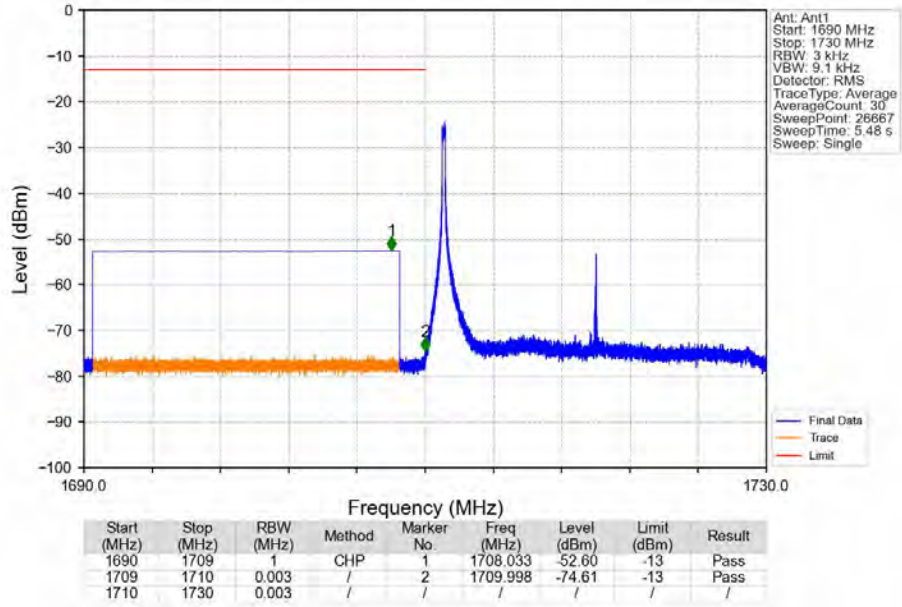
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_99_NTNV



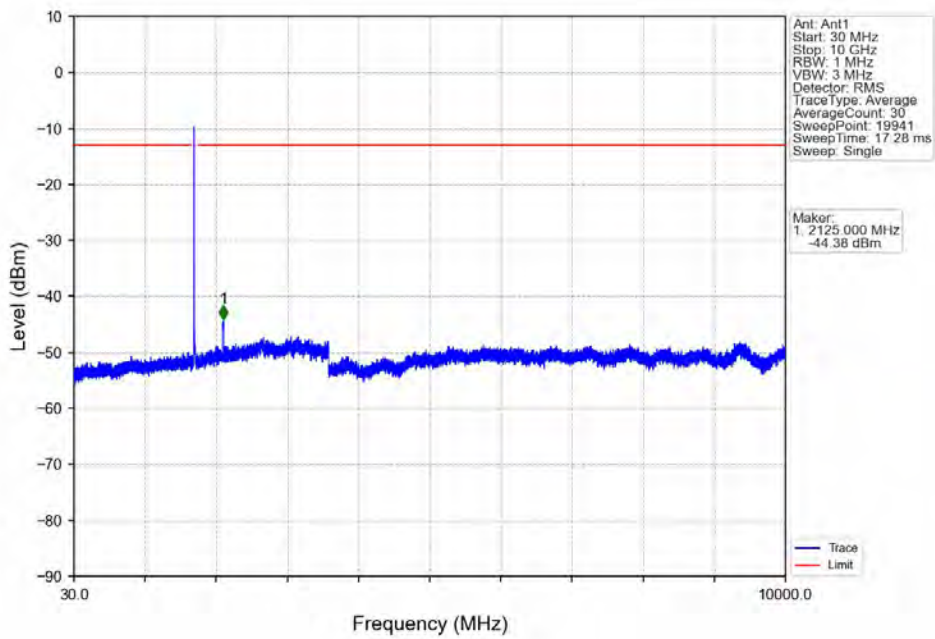
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



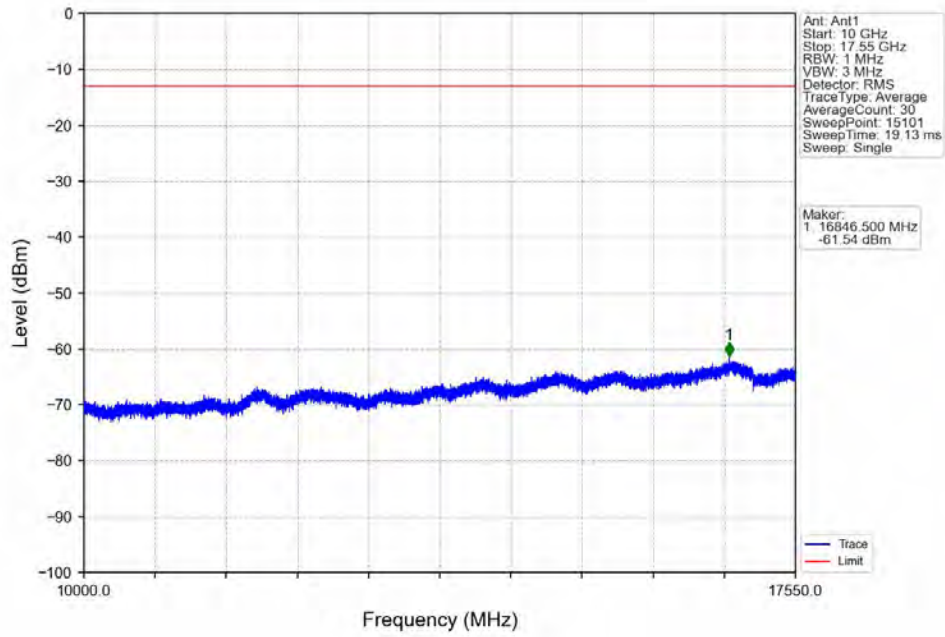
Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



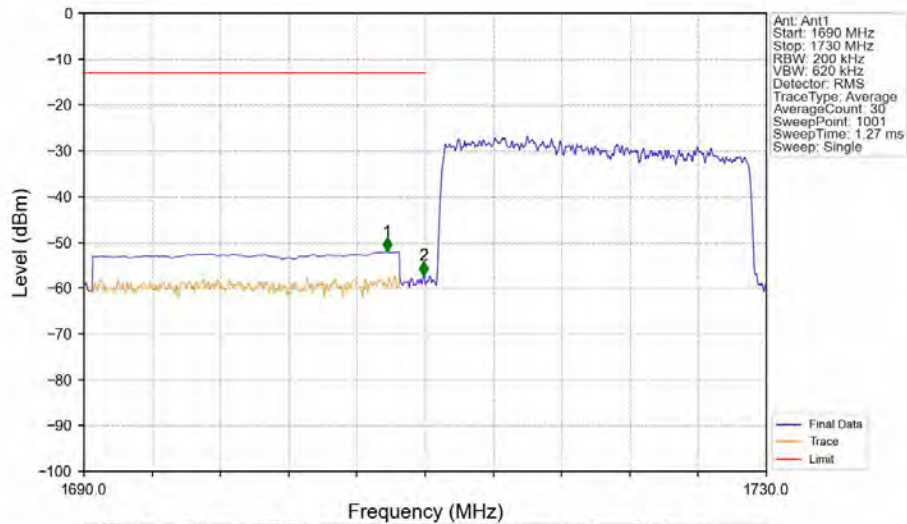
Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV

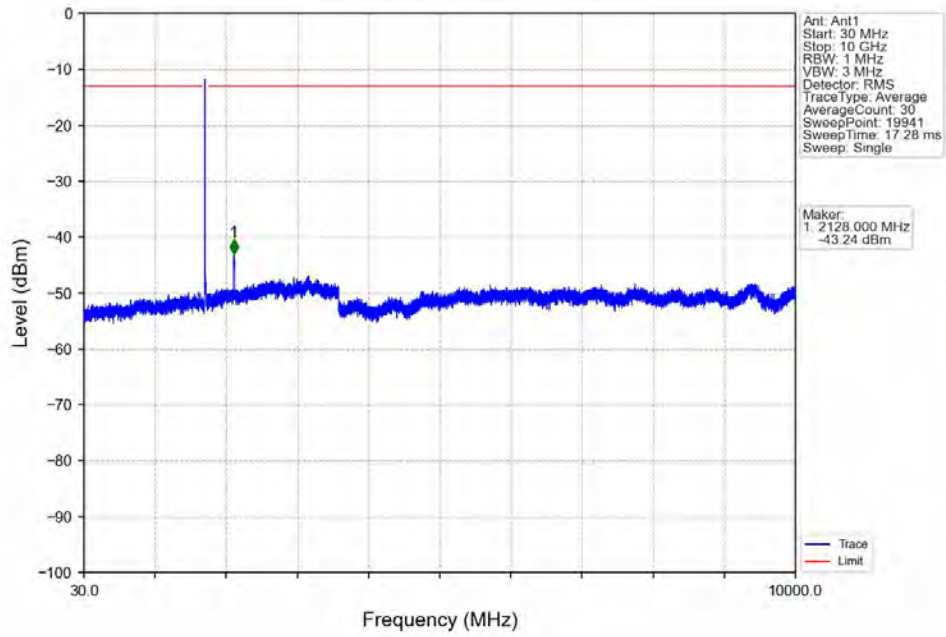


Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV

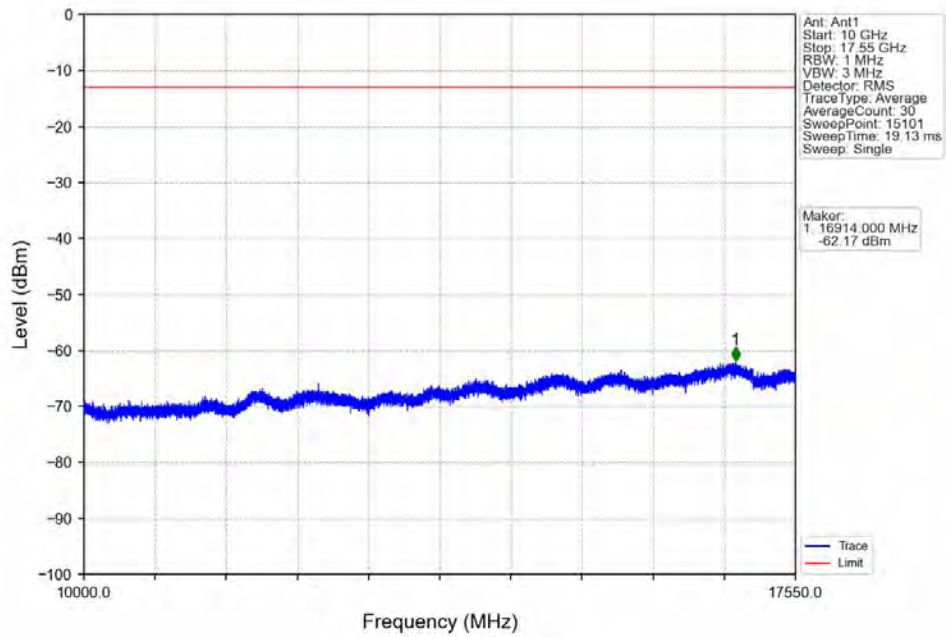


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1707.760	-52.06	-13	Pass
1709	1710	0.2	/	2	1709.920	-57.26	-13	Pass
1710	1730	0.2	/	/	/	/	/	/

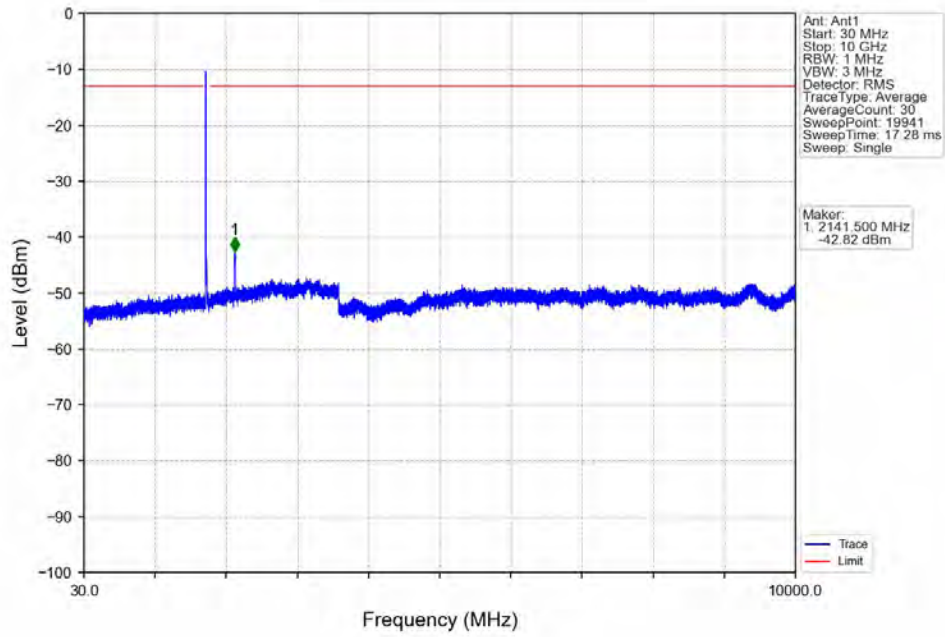
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



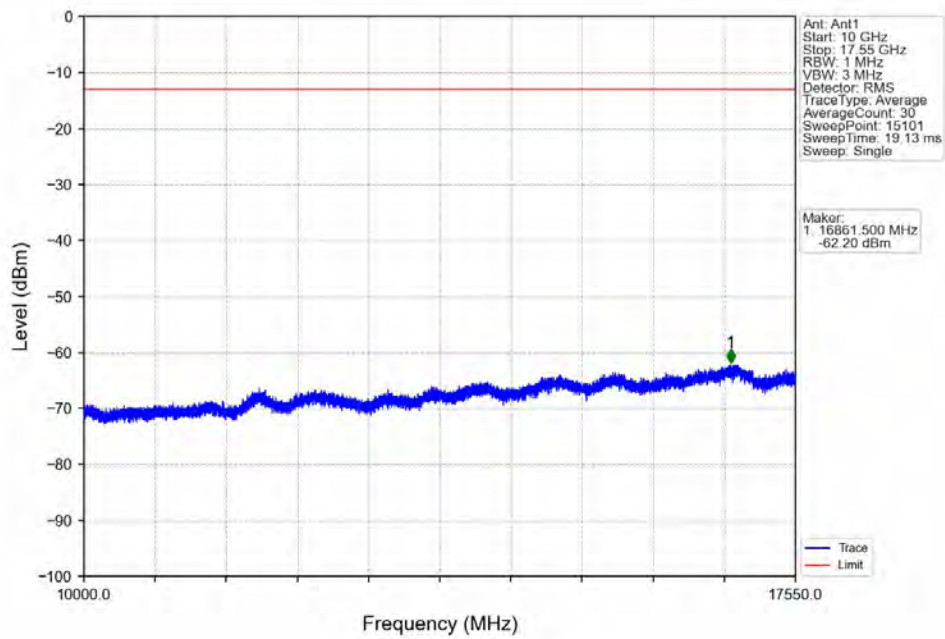
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



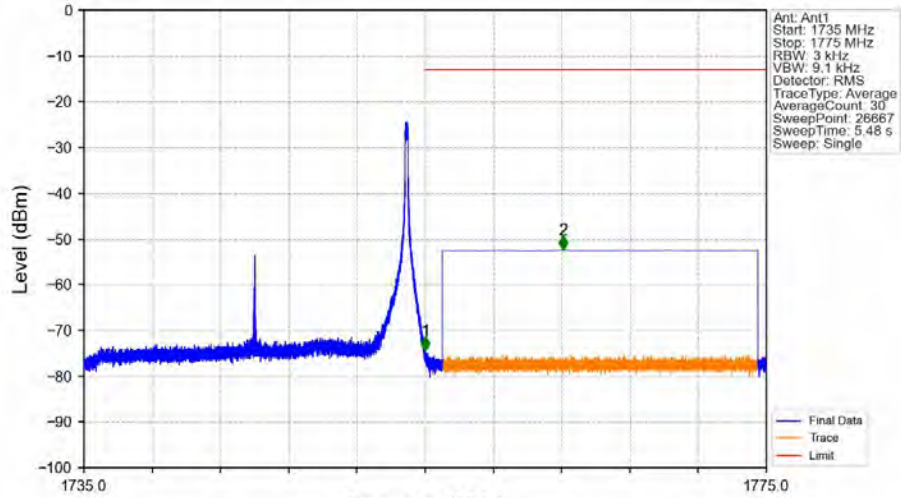
Band4 20MHz 16QAM HCH 1745MHz RB 1_0 NTN



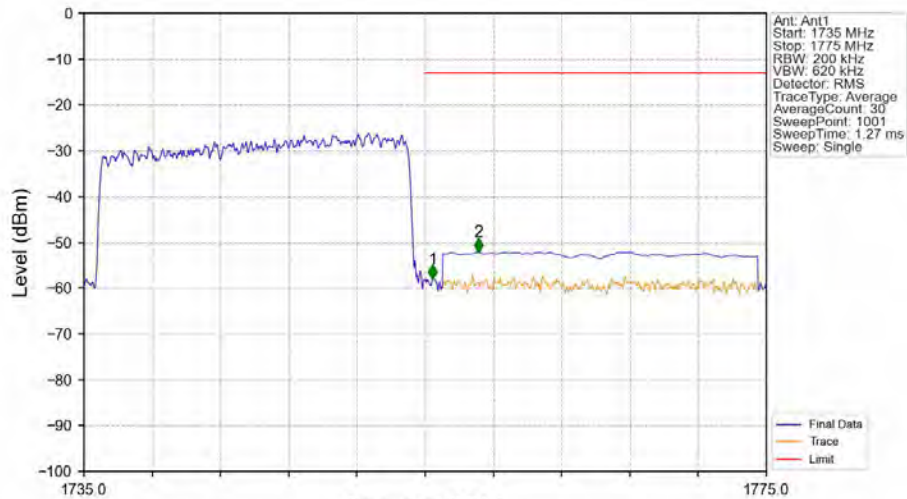
Band4 20MHz 16QAM HCH 1745MHz RB 1_0 NTN



Band4_20MHz_16QAM_HCH_1745MHz_RB_1_99_NTV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	1.4	1710.7	1754.3	0.1503	0.0035	ppm	1M11G7D	27L	21.77
4	1.4	1710.7	1754.3	0.1216	0.0026	ppm	1M11W7D	27L	20.85
4	3	1711.5	1753.5	0.1479	0.0039	ppm	2M73G7D	27L	21.70
4	3	1711.5	1753.5	0.1282	0.0040	ppm	2M73W7D	27L	21.08
4	5	1712.5	1752.5	0.1556	0.0034	ppm	4M55G7D	27L	21.92
4	5	1712.5	1752.5	0.1242	0.0028	ppm	4M56W7D	27L	20.94
4	10	1715	1750	0.1570	0.0025	ppm	9M06G7D	27L	21.96
4	10	1715	1750	0.1387	0.0022	ppm	9M03W7D	27L	21.42
4	15	1717.5	1747.5	0.1570	0.0025	ppm	13M6G7D	27L	21.96
4	15	1717.5	1747.5	0.1400	0.0029	ppm	13M6W7D	27L	21.46
4	20	1720	1745	0.1581	0.0020	ppm	18M1G7D	27L	21.99
4	20	1720	1745	0.1340	0.0032	ppm	18M1W7D	27L	21.27

7.2 Form731_EIRP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	1.4	1710.7	1754.3	0.1089	0.0035	ppm	1M11G7D	27L	20.37
4	1.4	1710.7	1754.3	0.0881	0.0026	ppm	1M11W7D	27L	19.45
4	3	1711.5	1753.5	0.1072	0.0039	ppm	2M73G7D	27L	20.30
4	3	1711.5	1753.5	0.0929	0.0040	ppm	2M73W7D	27L	19.68
4	5	1712.5	1752.5	0.1127	0.0034	ppm	4M55G7D	27L	20.52
4	5	1712.5	1752.5	0.0899	0.0028	ppm	4M56W7D	27L	19.54
4	10	1715	1750	0.1138	0.0025	ppm	9M06G7D	27L	20.56
4	10	1715	1750	0.1005	0.0022	ppm	9M03W7D	27L	20.02
4	15	1717.5	1747.5	0.1138	0.0025	ppm	13M6G7D	27L	20.56
4	15	1717.5	1747.5	0.1014	0.0029	ppm	13M6W7D	27L	20.06
4	20	1720	1745	0.1146	0.0020	ppm	18M1G7D	27L	20.59
4	20	1720	1745	0.0971	0.0032	ppm	18M1W7D	27L	19.87