

1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1710.7	1	0	22.20	0.41	22.61	<=30	Pass		
			2	22.30	0.41	22.71	<=30	Pass		
			5	22.20	0.41	22.61	<=30	Pass		
		3	0	22.35	0.41	22.76	<=30	Pass		
			2	22.37	0.41	22.78	<=30	Pass		
			3	22.30	0.41	22.71	<=30	Pass		
		6	0	21.30	0.41	21.71	<=30	Pass		
		1732.5	1	0	22.18	0.41	22.59	<=30	Pass	
				2	22.32	0.41	22.73	<=30	Pass	
	5			22.19	0.41	22.60	<=30	Pass		
	3		0	22.30	0.41	22.71	<=30	Pass		
			2	22.30	0.41	22.71	<=30	Pass		
			3	22.32	0.41	22.73	<=30	Pass		
	6		0	21.23	0.41	21.64	<=30	Pass		
	1754.3		1	0	21.83	0.41	22.24	<=30	Pass	
				2	21.92	0.41	22.33	<=30	Pass	
		5		21.77	0.41	22.18	<=30	Pass		
		3	0	21.89	0.41	22.30	<=30	Pass		
			2	21.95	0.41	22.36	<=30	Pass		
			3	21.92	0.41	22.33	<=30	Pass		
		6	0	20.89	0.41	21.30	<=30	Pass		
		16QAM	1710.7	1	0	21.20	0.41	21.61	<=30	Pass
					2	21.31	0.41	21.72	<=30	Pass
	5				21.19	0.41	21.60	<=30	Pass	
3	0			21.54	0.41	21.95	<=30	Pass		
	2			21.56	0.41	21.97	<=30	Pass		
	3			21.55	0.41	21.96	<=30	Pass		
6	0			20.33	0.41	20.74	<=30	Pass		
1732.5	1			0	21.27	0.41	21.68	<=30	Pass	
				2	21.32	0.41	21.73	<=30	Pass	
			5	21.29	0.41	21.70	<=30	Pass		
	3		0	21.43	0.41	21.84	<=30	Pass		
			2	21.41	0.41	21.82	<=30	Pass		
			3	21.41	0.41	21.82	<=30	Pass		
	6		0	20.23	0.41	20.64	<=30	Pass		
	1754.3		1	0	20.98	0.41	21.39	<=30	Pass	
				2	21.11	0.41	21.52	<=30	Pass	
5				20.99	0.41	21.40	<=30	Pass		
3			0	20.92	0.41	21.33	<=30	Pass		
			2	20.94	0.41	21.35	<=30	Pass		
			3	20.96	0.41	21.37	<=30	Pass		
6			0	19.93	0.41	20.34	<=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	22.39	0.41	22.80	<=30	Pass		
			7	22.48	0.41	22.89	<=30	Pass		
			14	22.33	0.41	22.74	<=30	Pass		
		8	0	21.36	0.41	21.77	<=30	Pass		
			4	21.39	0.41	21.80	<=30	Pass		
			7	21.36	0.41	21.77	<=30	Pass		
		15	0	21.35	0.41	21.76	<=30	Pass		
		1732.5	1	0	22.29	0.41	22.70	<=30	Pass	
				7	22.40	0.41	22.81	<=30	Pass	
	14			22.21	0.41	22.62	<=30	Pass		
	8		0	21.31	0.41	21.72	<=30	Pass		
			4	21.33	0.41	21.74	<=30	Pass		
			7	21.27	0.41	21.68	<=30	Pass		
	15		0	21.35	0.41	21.76	<=30	Pass		
	1753.5		1	0	21.93	0.41	22.34	<=30	Pass	
				7	22.00	0.41	22.41	<=30	Pass	
		14		21.88	0.41	22.29	<=30	Pass		
		8	0	20.92	0.41	21.33	<=30	Pass		
			4	20.96	0.41	21.37	<=30	Pass		
			7	20.94	0.41	21.35	<=30	Pass		
		15	0	20.94	0.41	21.35	<=30	Pass		
		16QAM	1711.5	1	0	21.44	0.41	21.85	<=30	Pass
					7	21.53	0.41	21.94	<=30	Pass
	14				21.39	0.41	21.80	<=30	Pass	
8	0			20.47	0.41	20.88	<=30	Pass		
	4			20.49	0.41	20.90	<=30	Pass		
	7			20.46	0.41	20.87	<=30	Pass		
15	0			20.44	0.41	20.85	<=30	Pass		
1732.5	1			0	21.50	0.41	21.91	<=30	Pass	
				7	21.60	0.41	22.01	<=30	Pass	
			14	21.49	0.41	21.90	<=30	Pass		
	8		0	20.33	0.41	20.74	<=30	Pass		
			4	20.35	0.41	20.76	<=30	Pass		
			7	20.31	0.41	20.72	<=30	Pass		
	15		0	20.35	0.41	20.76	<=30	Pass		
	1753.5		1	0	21.50	0.41	21.91	<=30	Pass	
				7	21.58	0.41	21.99	<=30	Pass	
14				21.43	0.41	21.84	<=30	Pass		
8			0	20.13	0.41	20.54	<=30	Pass		
			4	20.16	0.41	20.57	<=30	Pass		
			7	20.14	0.41	20.55	<=30	Pass		
15			0	20.07	0.41	20.48	<=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	22.19	0.41	22.60	<=30	Pass		
			13	22.27	0.41	22.68	<=30	Pass		
			24	22.15	0.41	22.56	<=30	Pass		
		12	0	21.29	0.41	21.70	<=30	Pass		
			6	21.29	0.41	21.70	<=30	Pass		
			13	21.25	0.41	21.66	<=30	Pass		
		25	0	21.23	0.41	21.64	<=30	Pass		
		1732.5	1	0	21.99	0.41	22.40	<=30	Pass	
				13	22.19	0.41	22.60	<=30	Pass	
	24			21.73	0.41	22.14	<=30	Pass		
	12		0	21.10	0.41	21.51	<=30	Pass		
			6	21.20	0.41	21.61	<=30	Pass		
			13	21.05	0.41	21.46	<=30	Pass		
	25		0	21.16	0.41	21.57	<=30	Pass		
	1752.5		1	0	21.27	0.41	21.68	<=30	Pass	
				13	21.38	0.41	21.79	<=30	Pass	
		24		21.26	0.41	21.67	<=30	Pass		
		12	0	20.37	0.41	20.78	<=30	Pass		
			6	20.39	0.41	20.80	<=30	Pass		
			13	20.39	0.41	20.80	<=30	Pass		
		25	0	20.36	0.41	20.77	<=30	Pass		
		16QAM	1712.5	1	0	21.26	0.41	21.67	<=30	Pass
					13	21.36	0.41	21.77	<=30	Pass
	24				21.11	0.41	21.52	<=30	Pass	
12	0			20.10	0.41	20.51	<=30	Pass		
	6			20.30	0.41	20.71	<=30	Pass		
	13			20.25	0.41	20.66	<=30	Pass		
25	0			20.30	0.41	20.71	<=30	Pass		
1732.5	1			0	20.94	0.41	21.35	<=30	Pass	
				13	21.07	0.41	21.48	<=30	Pass	
			24	20.98	0.41	21.39	<=30	Pass		
	12		0	19.79	0.41	20.20	<=30	Pass		
			6	19.89	0.41	20.30	<=30	Pass		
			13	19.82	0.41	20.23	<=30	Pass		
	25		0	19.84	0.41	20.25	<=30	Pass		
	1752.5		1	0	20.16	0.41	20.57	<=30	Pass	
				13	20.30	0.41	20.71	<=30	Pass	
24				20.15	0.41	20.56	<=30	Pass		
12			0	19.39	0.41	19.80	<=30	Pass		
			6	19.44	0.41	19.85	<=30	Pass		
			13	19.40	0.41	19.81	<=30	Pass		
25			0	19.44	0.41	19.85	<=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	22.25	0.41	22.66	<=30	Pass
			25	22.16	0.41	22.57	<=30	Pass

		25	49	21.72	0.41	22.13	<=30	Pass	
			0	20.75	0.41	21.16	<=30	Pass	
			13	20.84	0.41	21.25	<=30	Pass	
			25	20.79	0.41	21.20	<=30	Pass	
		50	0	20.81	0.41	21.22	<=30	Pass	
			1	0	21.70	0.41	22.11	<=30	Pass
				25	21.89	0.41	22.30	<=30	Pass
		49		21.63	0.41	22.04	<=30	Pass	
		1732.5	25	0	20.90	0.41	21.31	<=30	Pass
	13			20.81	0.41	21.22	<=30	Pass	
	25			20.76	0.41	21.17	<=30	Pass	
	50		0	20.81	0.41	21.22	<=30	Pass	
			1	0	21.36	0.41	21.77	<=30	Pass
				25	21.51	0.41	21.92	<=30	Pass
	49	21.25		0.41	21.66	<=30	Pass		
	1750	25	0	20.48	0.41	20.89	<=30	Pass	
			13	20.45	0.41	20.86	<=30	Pass	
			25	20.47	0.41	20.88	<=30	Pass	
		50	0	20.46	0.41	20.87	<=30	Pass	
			1	0	20.81	0.41	21.22	<=30	Pass
				25	20.95	0.41	21.36	<=30	Pass
	49	20.76		0.41	21.17	<=30	Pass		
	16QAM	1715	25	0	19.90	0.41	20.31	<=30	Pass
				13	19.95	0.41	20.36	<=30	Pass
				25	19.94	0.41	20.35	<=30	Pass
			50	0	19.88	0.41	20.29	<=30	Pass
				1	0	20.90	0.41	21.31	<=30
25					21.12	0.41	21.53	<=30	Pass
49			20.86		0.41	21.27	<=30	Pass	
1732.5			25	0	19.95	0.41	20.36	<=30	Pass
				13	19.90	0.41	20.31	<=30	Pass
		25		19.83	0.41	20.24	<=30	Pass	
		50	0	19.87	0.41	20.28	<=30	Pass	
			1	0	21.03	0.41	21.44	<=30	Pass
				25	21.12	0.41	21.53	<=30	Pass
49		20.87		0.41	21.28	<=30	Pass		
1750		25	0	19.58	0.41	19.99	<=30	Pass	
			13	19.58	0.41	19.99	<=30	Pass	
			25	19.56	0.41	19.97	<=30	Pass	
		50	0	19.53	0.41	19.94	<=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	22.07	0.41	22.48	<=30	Pass
			38	22.18	0.41	22.59	<=30	Pass
			74	22.05	0.41	22.46	<=30	Pass
		36	0	21.20	0.41	21.61	<=30	Pass
			18	21.27	0.41	21.68	<=30	Pass
			39	21.24	0.41	21.65	<=30	Pass

16QAM	1732.5	75	0	21.20	0.41	21.61	<=30	Pass	
		1	0	22.03	0.41	22.44	<=30	Pass	
			38	22.15	0.41	22.56	<=30	Pass	
			74	21.80	0.41	22.21	<=30	Pass	
			0	21.29	0.41	21.70	<=30	Pass	
		36	18	21.23	0.41	21.64	<=30	Pass	
			39	21.11	0.41	21.52	<=30	Pass	
			75	0	21.23	0.41	21.64	<=30	Pass
		1747.5	1	0	21.76	0.41	22.17	<=30	Pass
				38	21.83	0.41	22.24	<=30	Pass
				74	21.59	0.41	22.00	<=30	Pass
				0	21.02	0.41	21.43	<=30	Pass
	36		18	20.94	0.41	21.35	<=30	Pass	
			39	20.92	0.41	21.33	<=30	Pass	
			75	0	21.01	0.41	21.42	<=30	Pass
	1717.5		1	0	21.50	0.41	21.91	<=30	Pass
				38	21.62	0.41	22.03	<=30	Pass
				74	21.46	0.41	21.87	<=30	Pass
				0	20.19	0.41	20.60	<=30	Pass
			36	18	20.23	0.41	20.64	<=30	Pass
		39		20.17	0.41	20.58	<=30	Pass	
		75		0	20.19	0.41	20.60	<=30	Pass
		1732.5	1	0	21.26	0.41	21.67	<=30	Pass
				38	21.39	0.41	21.80	<=30	Pass
74				21.08	0.41	21.49	<=30	Pass	
36			0	20.33	0.41	20.74	<=30	Pass	
			18	20.27	0.41	20.68	<=30	Pass	
	39		20.13	0.41	20.54	<=30	Pass		
75	0	20.21	0.41	20.62	<=30	Pass			
1747.5	1	0	21.45	0.41	21.86	<=30	Pass		
		38	21.46	0.41	21.87	<=30	Pass		
		74	21.09	0.41	21.50	<=30	Pass		
	36	0	20.01	0.41	20.42	<=30	Pass		
		18	20.00	0.41	20.41	<=30	Pass		
		39	19.96	0.41	20.37	<=30	Pass		
75	0	19.95	0.41	20.36	<=30	Pass			

Note1: EIRP=Conducted Power+Antenna Gain

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	21.93	0.41	22.34	<=30	Pass
			50	22.29	0.41	22.70	<=30	Pass
			99	21.85	0.41	22.26	<=30	Pass
		50	0	21.17	0.41	21.58	<=30	Pass
			25	21.25	0.41	21.66	<=30	Pass
			50	21.18	0.41	21.59	<=30	Pass
	100	0	21.18	0.41	21.59	<=30	Pass	
	1732.5	1	0	21.90	0.41	22.31	<=30	Pass
			50	22.30	0.41	22.71	<=30	Pass
			99	21.76	0.41	22.17	<=30	Pass

	1745	50	0	21.32	0.41	21.73	<=30	Pass		
			25	21.22	0.41	21.63	<=30	Pass		
			50	21.02	0.41	21.43	<=30	Pass		
		100	0	21.20	0.41	21.61	<=30	Pass		
			1	0	21.79	0.41	22.20	<=30	Pass	
				50	22.09	0.41	22.50	<=30	Pass	
	99	21.48		0.41	21.89	<=30	Pass			
	1745	50	0	21.13	0.41	21.54	<=30	Pass		
			25	21.03	0.41	21.44	<=30	Pass		
			50	20.93	0.41	21.34	<=30	Pass		
		100	0	20.98	0.41	21.39	<=30	Pass		
			1720	1	0	21.45	0.41	21.86	<=30	Pass
					50	21.89	0.41	22.30	<=30	Pass
	99	21.43			0.41	21.84	<=30	Pass		
	1720	50	0	20.23	0.41	20.64	<=30	Pass		
25			20.26	0.41	20.67	<=30	Pass			
50			20.16	0.41	20.57	<=30	Pass			
100		0	20.23	0.41	20.64	<=30	Pass			
		1732.5	1	0	21.15	0.41	21.56	<=30	Pass	
				50	21.59	0.41	22.00	<=30	Pass	
99	21.00			0.41	21.41	<=30	Pass			
1732.5	50	0	20.39	0.41	20.80	<=30	Pass			
		25	20.27	0.41	20.68	<=30	Pass			
		50	20.11	0.41	20.52	<=30	Pass			
	100	0	20.27	0.41	20.68	<=30	Pass			
		1745	1	0	21.09	0.41	21.50	<=30	Pass	
				50	21.30	0.41	21.71	<=30	Pass	
99	20.65			0.41	21.06	<=30	Pass			
1745	50	0	20.15	0.41	20.56	<=30	Pass			
		25	20.11	0.41	20.52	<=30	Pass			
		50	19.99	0.41	20.40	<=30	Pass			
	100	0	20.08	0.41	20.49	<=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	1.888	0.0011	-2.5 to 2.5	Pass	
					3.85	-1.974	-0.0012	-2.5 to 2.5	Pass	
					4.43	-4.120	-0.0024	-2.5 to 2.5	Pass	
				-30	3.85	-3.533	-0.0021	-2.5 to 2.5	Pass	
					-20	3.85	-7.124	-0.0042	-2.5 to 2.5	Pass
						-10	3.85	-4.005	-0.0023	-2.5 to 2.5
					0	3.85	-3.204	-0.0019	-2.5 to 2.5	Pass
					10	3.85	-5.465	-0.0032	-2.5 to 2.5	Pass
					30	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
					40	3.85	-3.133	-0.0018	-2.5 to 2.5	Pass
50	3.85	-4.048	-0.0024	-2.5 to 2.5	Pass					

	1732.5	6	0	20	3.27	-3.376	-0.0019	-2.5 to 2.5	Pass	
					3.85	-5.150	-0.0030	-2.5 to 2.5	Pass	
					4.43	-1.717	-0.0010	-2.5 to 2.5	Pass	
				-30	3.85	-6.824	-0.0039	-2.5 to 2.5	Pass	
					-20	3.85	-5.851	-0.0034	-2.5 to 2.5	Pass
						3.85	-3.247	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-3.333	-0.0019	-2.5 to 2.5	Pass	
					10	3.85	-8.411	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-3.476	-0.0020	-2.5 to 2.5	Pass	
	40	3.85	-4.406	-0.0025	-2.5 to 2.5	Pass				
	50	3.85	-4.692	-0.0027	-2.5 to 2.5	Pass				
	1754.3	6	0	20	3.27	-4.621	-0.0026	-2.5 to 2.5	Pass	
					3.85	-4.091	-0.0023	-2.5 to 2.5	Pass	
					4.43	-4.120	-0.0023	-2.5 to 2.5	Pass	
				-30	3.85	-4.034	-0.0023	-2.5 to 2.5	Pass	
					-20	3.85	-1.788	-0.0010	-2.5 to 2.5	Pass
						3.85	-1.745	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-7.067	-0.0040	-2.5 to 2.5	Pass	
10					3.85	-9.656	-0.0055	-2.5 to 2.5	Pass	
30				3.85	-11.630	-0.0066	-2.5 to 2.5	Pass		
40	3.85	-7.310	-0.0042	-2.5 to 2.5	Pass					
50	3.85	-6.938	-0.0040	-2.5 to 2.5	Pass					
16QAM	1710.7	6	0	20	3.27	-4.921	-0.0029	-2.5 to 2.5	Pass	
					3.85	-5.221	-0.0031	-2.5 to 2.5	Pass	
					4.43	-7.238	-0.0042	-2.5 to 2.5	Pass	
				-30	3.85	-3.176	-0.0019	-2.5 to 2.5	Pass	
					-20	3.85	-0.429	-0.0003	-2.5 to 2.5	Pass
						3.85	-1.087	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-7.224	-0.0042	-2.5 to 2.5	Pass	
					10	3.85	-5.550	-0.0032	-2.5 to 2.5	Pass
				30	3.85	-9.327	-0.0055	-2.5 to 2.5	Pass	
				40	3.85	-8.340	-0.0049	-2.5 to 2.5	Pass	
				50	3.85	-4.892	-0.0029	-2.5 to 2.5	Pass	
				1732.5	6	0	20	3.27	-7.625	-0.0044
	3.85	-10.057	-0.0058					-2.5 to 2.5	Pass	
	4.43	-3.047	-0.0018					-2.5 to 2.5	Pass	
	-30	3.85	3.018				0.0017	-2.5 to 2.5	Pass	
		-20	3.85				-4.234	-0.0024	-2.5 to 2.5	Pass
			3.85				0.186	0.0001	-2.5 to 2.5	Pass
	0	3.85	-3.533				-0.0020	-2.5 to 2.5	Pass	
		10	3.85				-2.246	-0.0013	-2.5 to 2.5	Pass
	30	3.85	-9.284				-0.0054	-2.5 to 2.5	Pass	
	40	3.85	-11.144				-0.0064	-2.5 to 2.5	Pass	
	50	3.85	-9.742				-0.0056	-2.5 to 2.5	Pass	
	1754.3	6	0				20	3.27	-2.718	-0.0015
				3.85	-12.646	-0.0072		-2.5 to 2.5	Pass	
				4.43	-3.619	-0.0021		-2.5 to 2.5	Pass	
				-30	3.85	-2.489	-0.0014	-2.5 to 2.5	Pass	
					-20	3.85	-12.989	-0.0074	-2.5 to 2.5	Pass
						3.85	-4.950	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-13.704	-0.0078	-2.5 to 2.5	Pass	
					10	3.85	-8.397	-0.0048	-2.5 to 2.5	Pass
				30	3.85	-10.285	-0.0059	-2.5 to 2.5	Pass	
				40	3.85	-2.947	-0.0017	-2.5 to 2.5	Pass	
				50	3.85	-11.673	-0.0067	-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	-7.524	-0.0044	-2.5 to 2.5	Pass
					3.85	-5.736	-0.0034	-2.5 to 2.5	Pass
					4.43	-5.336	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-7.510	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-1.974	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-5.064	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-4.749	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-7.195	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-0.758	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-1.073	-0.0006	-2.5 to 2.5	Pass
	50	3.85	-2.146	-0.0013	-2.5 to 2.5	Pass			
	1732.5	15	0	20	3.27	0.186	0.0001	-2.5 to 2.5	Pass
					3.85	-6.208	-0.0036	-2.5 to 2.5	Pass
					4.43	-0.629	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-5.522	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-9.542	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-3.877	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-10.185	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-5.164	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-2.561	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-6.309	-0.0036	-2.5 to 2.5	Pass
	50	3.85	-4.249	-0.0025	-2.5 to 2.5	Pass			
	1753.5	15	0	20	3.27	-9.828	-0.0056	-2.5 to 2.5	Pass
					3.85	-1.616	-0.0009	-2.5 to 2.5	Pass
					4.43	-5.951	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-1.116	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-7.195	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-10.571	-0.0060	-2.5 to 2.5	Pass
				10	3.85	-10.943	-0.0062	-2.5 to 2.5	Pass
30				3.85	-3.548	-0.0020	-2.5 to 2.5	Pass	
40				3.85	-7.110	-0.0041	-2.5 to 2.5	Pass	
50	3.85	-11.044	-0.0063	-2.5 to 2.5	Pass				
16QAM	1711.5	15	0	20	3.27	1.087	0.0006	-2.5 to 2.5	Pass
					3.85	1.388	0.0008	-2.5 to 2.5	Pass
					4.43	-0.215	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-3.819	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-6.552	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-8.626	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-7.839	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-5.150	-0.0030	-2.5 to 2.5	Pass
				40	3.85	-6.924	-0.0040	-2.5 to 2.5	Pass
	50	3.85	3.519	0.0021	-2.5 to 2.5	Pass			
	1732.5	15	0	20	3.27	-5.822	-0.0034	-2.5 to 2.5	Pass
					3.85	-3.948	-0.0023	-2.5 to 2.5	Pass
					4.43	-7.639	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-5.064	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-1.287	-0.0007	-2.5 to 2.5	Pass

	1753.5	15	0	-10	3.85	-8.783	-0.0051	-2.5 to 2.5	Pass	
				0	3.85	0.572	0.0003	-2.5 to 2.5	Pass	
				10	3.85	-4.792	-0.0028	-2.5 to 2.5	Pass	
				30	3.85	0.758	0.0004	-2.5 to 2.5	Pass	
				40	3.85	-4.420	-0.0026	-2.5 to 2.5	Pass	
				50	3.85	-4.950	-0.0029	-2.5 to 2.5	Pass	
		1753.5	15	0	20	3.27	-2.933	-0.0017	-2.5 to 2.5	Pass
						3.85	-12.760	-0.0073	-2.5 to 2.5	Pass
						4.43	-2.689	-0.0015	-2.5 to 2.5	Pass
					-30	3.85	-9.928	-0.0057	-2.5 to 2.5	Pass
					-20	3.85	-10.471	-0.0060	-2.5 to 2.5	Pass
					-10	3.85	-5.107	-0.0029	-2.5 to 2.5	Pass
					0	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
					10	3.85	-6.638	-0.0038	-2.5 to 2.5	Pass
					30	3.85	-12.174	-0.0069	-2.5 to 2.5	Pass
					40	3.85	-8.283	-0.0047	-2.5 to 2.5	Pass
					50	3.85	-4.263	-0.0024	-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	-3.176	-0.0019	-2.5 to 2.5	Pass
					3.85	-0.973	-0.0006	-2.5 to 2.5	Pass
					4.43	-2.675	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-1.416	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-4.721	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-2.460	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-1.030	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.858	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				40	3.85	-1.602	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-6.323	-0.0037	-2.5 to 2.5	Pass
				1732.5	25	0	20	3.27	-7.324
	3.85	-4.392	-0.0025					-2.5 to 2.5	Pass
	4.43	-5.422	-0.0031					-2.5 to 2.5	Pass
	-30	3.85	2.375				0.0014	-2.5 to 2.5	Pass
	-20	3.85	-5.994				-0.0035	-2.5 to 2.5	Pass
	-10	3.85	2.818				0.0016	-2.5 to 2.5	Pass
	0	3.85	-12.674				-0.0073	-2.5 to 2.5	Pass
	10	3.85	-1.731				-0.0010	-2.5 to 2.5	Pass
	30	3.85	-10.815				-0.0062	-2.5 to 2.5	Pass
	40	3.85	-7.439				-0.0043	-2.5 to 2.5	Pass
	50	3.85	0.186				0.0001	-2.5 to 2.5	Pass
	1752.5	25	0				20	3.27	-10.185
				3.85	-9.284	-0.0053		-2.5 to 2.5	Pass
				4.43	-3.119	-0.0018		-2.5 to 2.5	Pass
				-30	3.85	-1.831	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-4.621	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-6.437	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-6.423	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-5.007	-0.0029	-2.5 to 2.5	Pass

				30	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-5.808	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-3.519	-0.0020	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-0.200	-0.0001	-2.5 to 2.5	Pass
					3.85	-6.094	-0.0036	-2.5 to 2.5	Pass
					4.43	-2.918	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-5.350	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-0.415	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-7.224	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-5.221	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-9.112	-0.0053	-2.5 to 2.5	Pass
				30	3.85	-7.496	-0.0044	-2.5 to 2.5	Pass
				40	3.85	-4.635	-0.0027	-2.5 to 2.5	Pass
	50	3.85	-5.851	-0.0034	-2.5 to 2.5	Pass			
	1732.5	25	0	20	3.27	0.200	0.0001	-2.5 to 2.5	Pass
					3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
					4.43	-4.091	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	3.161	0.0018	-2.5 to 2.5	Pass
				-20	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-6.781	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-0.358	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-10.386	-0.0060	-2.5 to 2.5	Pass
				30	3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-9.227	-0.0053	-2.5 to 2.5	Pass
	50	3.85	-8.583	-0.0050	-2.5 to 2.5	Pass			
	1752.5	25	0	20	3.27	-3.576	-0.0020	-2.5 to 2.5	Pass
					3.85	-7.381	-0.0042	-2.5 to 2.5	Pass
					4.43	-6.380	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-2.489	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-8.826	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				0	3.85	-2.160	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-5.436	-0.0031	-2.5 to 2.5	Pass
30				3.85	-12.975	-0.0074	-2.5 to 2.5	Pass	
40				3.85	2.046	0.0012	-2.5 to 2.5	Pass	
50	3.85	-7.639	-0.0044	-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	-7.796	-0.0045	-2.5 to 2.5	Pass
					3.85	-5.250	-0.0031	-2.5 to 2.5	Pass
					4.43	-7.839	-0.0046	-2.5 to 2.5	Pass
				-30	3.85	-8.955	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-8.640	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-7.739	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-7.067	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-6.652	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-6.280	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-5.007	-0.0029	-2.5 to 2.5	Pass
50	3.85	-8.397	-0.0049	-2.5 to 2.5	Pass				

	1732.5	50	0	20	3.27	-5.465	-0.0032	-2.5 to 2.5	Pass				
					3.85	3.762	0.0022	-2.5 to 2.5	Pass				
					4.43	-0.672	-0.0004	-2.5 to 2.5	Pass				
				-30	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass				
					-20	3.85	-8.512	-0.0049	-2.5 to 2.5	Pass			
						-10	3.85	-5.078	-0.0029	-2.5 to 2.5	Pass		
				0	3.85	-4.063	-0.0023	-2.5 to 2.5	Pass				
					10	3.85	-4.535	-0.0026	-2.5 to 2.5	Pass			
					30	3.85	-2.975	-0.0017	-2.5 to 2.5	Pass			
	40	3.85	-3.219	-0.0019	-2.5 to 2.5	Pass							
		50	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass						
			3.85	-1.016	-0.0006	-2.5 to 2.5	Pass						
	1750	50	0	20	3.27	-8.011	-0.0046	-2.5 to 2.5	Pass				
					3.85	-7.253	-0.0041	-2.5 to 2.5	Pass				
					4.43	-8.726	-0.0050	-2.5 to 2.5	Pass				
				-30	3.85	-7.653	-0.0044	-2.5 to 2.5	Pass				
					-20	3.85	-5.379	-0.0031	-2.5 to 2.5	Pass			
						-10	3.85	-9.542	-0.0055	-2.5 to 2.5	Pass		
0				3.85	-7.739	-0.0044	-2.5 to 2.5	Pass					
				10	3.85	-4.921	-0.0028	-2.5 to 2.5	Pass				
				30	3.85	-9.742	-0.0056	-2.5 to 2.5	Pass				
40	3.85	-7.753	-0.0044	-2.5 to 2.5	Pass								
	50	3.85	-5.322	-0.0030	-2.5 to 2.5	Pass							
		3.85	-5.322	-0.0030	-2.5 to 2.5	Pass							
16QAM	1715	50	0	20	3.27	-7.153	-0.0042	-2.5 to 2.5	Pass				
					3.85	-7.052	-0.0041	-2.5 to 2.5	Pass				
					4.43	-6.466	-0.0038	-2.5 to 2.5	Pass				
				-30	3.85	-9.241	-0.0054	-2.5 to 2.5	Pass				
					-20	3.85	-4.020	-0.0023	-2.5 to 2.5	Pass			
						-10	3.85	-2.832	-0.0017	-2.5 to 2.5	Pass		
				0	3.85	-5.035	-0.0029	-2.5 to 2.5	Pass				
					10	3.85	-3.047	-0.0018	-2.5 to 2.5	Pass			
					30	3.85	-0.701	-0.0004	-2.5 to 2.5	Pass			
				40	3.85	-6.166	-0.0036	-2.5 to 2.5	Pass				
					50	3.85	-3.505	-0.0020	-2.5 to 2.5	Pass			
						3.85	-3.505	-0.0020	-2.5 to 2.5	Pass			
				1732.5	50	0	20	3.27	-2.961	-0.0017	-2.5 to 2.5	Pass	
								3.85	-7.124	-0.0041	-2.5 to 2.5	Pass	
								4.43	0.186	0.0001	-2.5 to 2.5	Pass	
							-30	3.85	-3.004	-0.0017	-2.5 to 2.5	Pass	
								-20	3.85	-5.608	-0.0032	-2.5 to 2.5	Pass
									-10	3.85	4.106	0.0024	-2.5 to 2.5
	0	3.85	-3.748				-0.0022	-2.5 to 2.5	Pass				
		10	3.85				-2.275	-0.0013	-2.5 to 2.5	Pass			
		30	3.85				-2.189	-0.0013	-2.5 to 2.5	Pass			
	40	3.85	-3.605				-0.0021	-2.5 to 2.5	Pass				
		50	3.85				-2.317	-0.0013	-2.5 to 2.5	Pass			
			3.85				-2.317	-0.0013	-2.5 to 2.5	Pass			
	1750	50	0				20	3.27	-7.052	-0.0040	-2.5 to 2.5	Pass	
								3.85	-5.522	-0.0032	-2.5 to 2.5	Pass	
								4.43	-8.512	-0.0049	-2.5 to 2.5	Pass	
							-30	3.85	-5.894	-0.0034	-2.5 to 2.5	Pass	
								-20	3.85	-10.958	-0.0063	-2.5 to 2.5	Pass
									-10	3.85	-4.864	-0.0028	-2.5 to 2.5
				0	3.85	-5.465	-0.0031	-2.5 to 2.5	Pass				
					10	3.85	-6.781	-0.0039	-2.5 to 2.5	Pass			
					30	3.85	-1.330	-0.0008	-2.5 to 2.5	Pass			
				40	3.85	-8.941	-0.0051	-2.5 to 2.5	Pass				
					50	3.85	-5.450	-0.0031	-2.5 to 2.5	Pass			
						3.85	-5.450	-0.0031	-2.5 to 2.5	Pass			

2.5 B4_15MHz

2.5.1 Test Result

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.27	-10.028	-0.0058	-2.5 to 2.5	Pass
					3.85	-6.452	-0.0038	-2.5 to 2.5	Pass
					4.43	-5.651	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-5.035	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-4.106	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-6.909	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-7.167	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-7.582	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-5.593	-0.0033	-2.5 to 2.5	Pass
	40	3.85	-5.651	-0.0033	-2.5 to 2.5	Pass			
	50	3.85	-5.622	-0.0033	-2.5 to 2.5	Pass			
	1732.5	75	0	20	3.27	-4.935	-0.0028	-2.5 to 2.5	Pass
					3.85	-3.104	-0.0018	-2.5 to 2.5	Pass
					4.43	-4.463	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-6.237	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-3.018	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-3.462	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-4.120	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-7.954	-0.0046	-2.5 to 2.5	Pass
	40	3.85	-3.676	-0.0021	-2.5 to 2.5	Pass			
	50	3.85	-1.087	-0.0006	-2.5 to 2.5	Pass			
	1747.5	75	0	20	3.27	-10.228	-0.0059	-2.5 to 2.5	Pass
					3.85	-9.384	-0.0054	-2.5 to 2.5	Pass
					4.43	-7.510	-0.0043	-2.5 to 2.5	Pass
				-30	3.85	-9.928	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-9.627	-0.0055	-2.5 to 2.5	Pass
-10				3.85	-7.896	-0.0045	-2.5 to 2.5	Pass	
0				3.85	-6.967	-0.0040	-2.5 to 2.5	Pass	
10				3.85	-10.057	-0.0058	-2.5 to 2.5	Pass	
30				3.85	-7.854	-0.0045	-2.5 to 2.5	Pass	
40	3.85	-6.609	-0.0038	-2.5 to 2.5	Pass				
50	3.85	-8.984	-0.0051	-2.5 to 2.5	Pass				
16QAM	1717.5	75	0	20	3.27	-5.236	-0.0030	-2.5 to 2.5	Pass
					3.85	-4.106	-0.0024	-2.5 to 2.5	Pass
					4.43	-3.891	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-4.292	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-5.565	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	-4.835	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-2.561	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-5.751	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-5.908	-0.0034	-2.5 to 2.5	Pass
	40	3.85	-5.336	-0.0031	-2.5 to 2.5	Pass			
	50	3.85	-8.740	-0.0051	-2.5 to 2.5	Pass			
	1732.5	75	0	20	3.27	-1.602	-0.0009	-2.5 to 2.5	Pass
					3.85	-0.801	-0.0005	-2.5 to 2.5	Pass
					4.43	-1.302	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-6.309	-0.0036	-2.5 to 2.5	Pass
-20				3.85	-2.418	-0.0014	-2.5 to 2.5	Pass	

	1747.5	75	0	-10	3.85	-1.545	-0.0009	-2.5 to 2.5	Pass	
				0	3.85	-2.403	-0.0014	-2.5 to 2.5	Pass	
				10	3.85	-6.452	-0.0037	-2.5 to 2.5	Pass	
				30	3.85	-0.386	-0.0002	-2.5 to 2.5	Pass	
				40	3.85	1.602	0.0009	-2.5 to 2.5	Pass	
				50	3.85	1.316	0.0008	-2.5 to 2.5	Pass	
		1747.5	75	0	20	3.27	-10.242	-0.0059	-2.5 to 2.5	Pass
						3.85	-4.034	-0.0023	-2.5 to 2.5	Pass
						4.43	-7.839	-0.0045	-2.5 to 2.5	Pass
					-30	3.85	-8.655	-0.0050	-2.5 to 2.5	Pass
					-20	3.85	-8.726	-0.0050	-2.5 to 2.5	Pass
					-10	3.85	-3.762	-0.0022	-2.5 to 2.5	Pass
					0	3.85	-6.595	-0.0038	-2.5 to 2.5	Pass
					10	3.85	-8.240	-0.0047	-2.5 to 2.5	Pass
					30	3.85	-7.510	-0.0043	-2.5 to 2.5	Pass
					40	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
					50	3.85	-8.683	-0.0050	-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	-3.719	-0.0022	-2.5 to 2.5	Pass			
					3.85	-6.623	-0.0039	-2.5 to 2.5	Pass			
					4.43	-5.622	-0.0033	-2.5 to 2.5	Pass			
				-30	3.85	-2.546	-0.0015	-2.5 to 2.5	Pass			
				-20	3.85	-5.765	-0.0034	-2.5 to 2.5	Pass			
				-10	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass			
				0	3.85	-9.198	-0.0053	-2.5 to 2.5	Pass			
				10	3.85	-10.185	-0.0059	-2.5 to 2.5	Pass			
				30	3.85	-6.180	-0.0036	-2.5 to 2.5	Pass			
				40	3.85	-5.422	-0.0032	-2.5 to 2.5	Pass			
				50	3.85	-5.779	-0.0034	-2.5 to 2.5	Pass			
				1732.5	100	0	20	3.27	-6.466	-0.0037	-2.5 to 2.5	Pass
								3.85	-0.844	-0.0005	-2.5 to 2.5	Pass
								4.43	-5.436	-0.0031	-2.5 to 2.5	Pass
							-30	3.85	-6.523	-0.0038	-2.5 to 2.5	Pass
	-20	3.85	-8.640				-0.0050	-2.5 to 2.5	Pass			
	-10	3.85	-4.807				-0.0028	-2.5 to 2.5	Pass			
	0	3.85	-7.396				-0.0043	-2.5 to 2.5	Pass			
	10	3.85	-6.509				-0.0038	-2.5 to 2.5	Pass			
	30	3.85	-5.507				-0.0032	-2.5 to 2.5	Pass			
	40	3.85	0.901				0.0005	-2.5 to 2.5	Pass			
	50	3.85	-3.662				-0.0021	-2.5 to 2.5	Pass			
	1745	100	0				20	3.27	-6.652	-0.0038	-2.5 to 2.5	Pass
								3.85	-8.411	-0.0048	-2.5 to 2.5	Pass
								4.43	-0.415	-0.0002	-2.5 to 2.5	Pass
							-30	3.85	-2.947	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-4.964	-0.0028	-2.5 to 2.5	Pass			
				-10	3.85	-8.540	-0.0049	-2.5 to 2.5	Pass			
				0	3.85	-6.752	-0.0039	-2.5 to 2.5	Pass			
				10	3.85	-5.207	-0.0030	-2.5 to 2.5	Pass			

				30	3.85	-6.008	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-4.692	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-6.652	-0.0038	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-13.075	-0.0076	-2.5 to 2.5	Pass
					3.85	-6.781	-0.0039	-2.5 to 2.5	Pass
					4.43	-8.225	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-8.812	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-9.270	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-5.908	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-2.575	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-9.284	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-1.674	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-4.292	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-9.584	-0.0056	-2.5 to 2.5	Pass
				1732.5	100	0	20	3.27	-0.572
	3.85	-7.682	-0.0044					-2.5 to 2.5	Pass
	4.43	-3.920	-0.0023					-2.5 to 2.5	Pass
	-30	3.85	1.917				0.0011	-2.5 to 2.5	Pass
	-20	3.85	-1.702				-0.0010	-2.5 to 2.5	Pass
	-10	3.85	-7.467				-0.0043	-2.5 to 2.5	Pass
	0	3.85	-0.401				-0.0002	-2.5 to 2.5	Pass
	10	3.85	-4.721				-0.0027	-2.5 to 2.5	Pass
	30	3.85	-2.818				-0.0016	-2.5 to 2.5	Pass
	40	3.85	-8.125				-0.0047	-2.5 to 2.5	Pass
	50	3.85	-6.652				-0.0038	-2.5 to 2.5	Pass
	1745	100	0				20	3.27	-0.501
				3.85	-1.588	-0.0009		-2.5 to 2.5	Pass
				4.43	-6.280	-0.0036		-2.5 to 2.5	Pass
				-30	3.85	-5.779	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	-4.721	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-5.722	-0.0033	-2.5 to 2.5	Pass
				0	3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-3.433	-0.0020	-2.5 to 2.5	Pass
30				3.85	-2.060	-0.0012	-2.5 to 2.5	Pass	
40				3.85	-6.094	-0.0035	-2.5 to 2.5	Pass	
50				3.85	-3.834	-0.0022	-2.5 to 2.5	Pass	

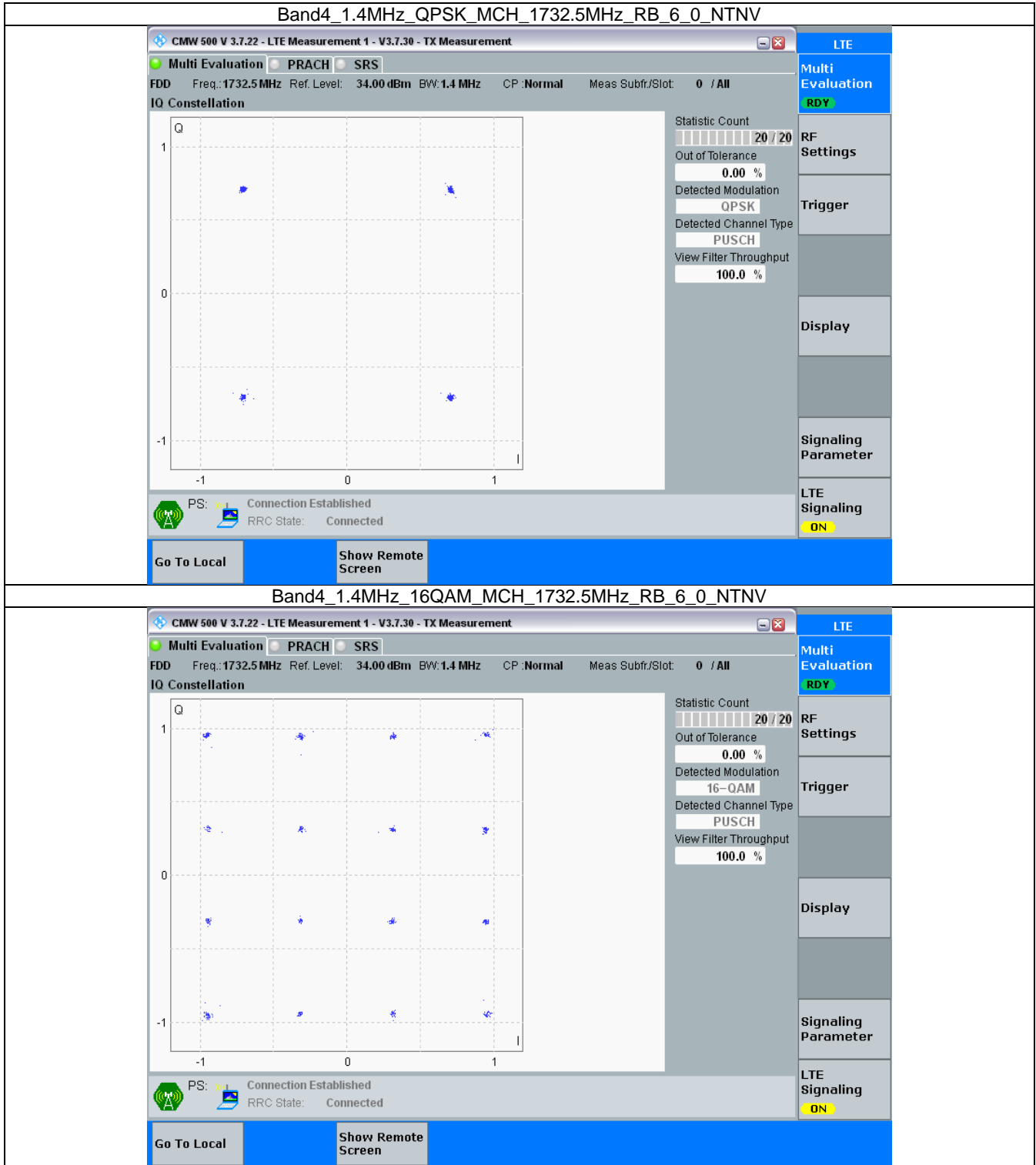
3. Modulation Characteristics

3.1 B4_1.4MHz

3.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
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

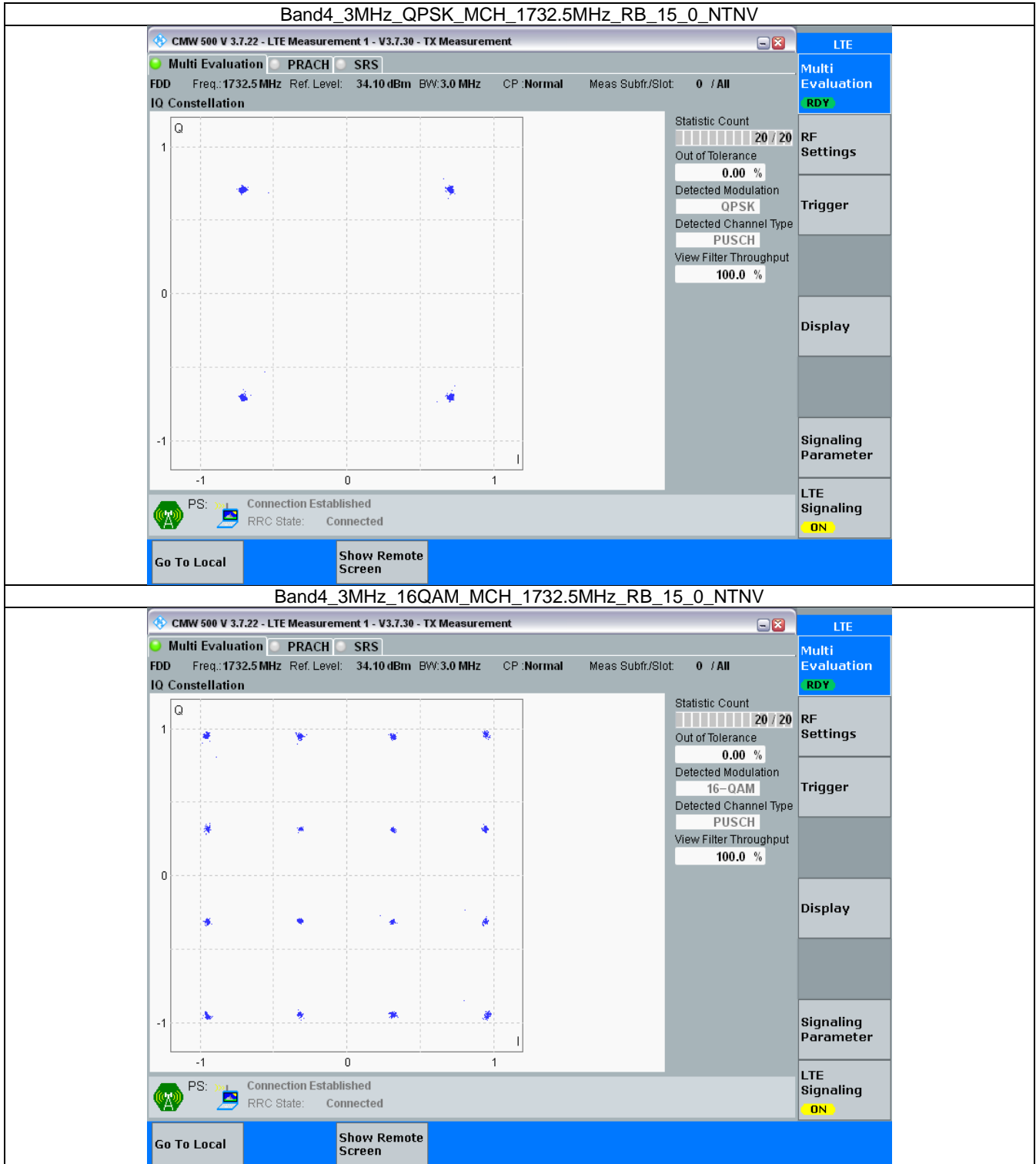


3.2 B4_3MHz

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

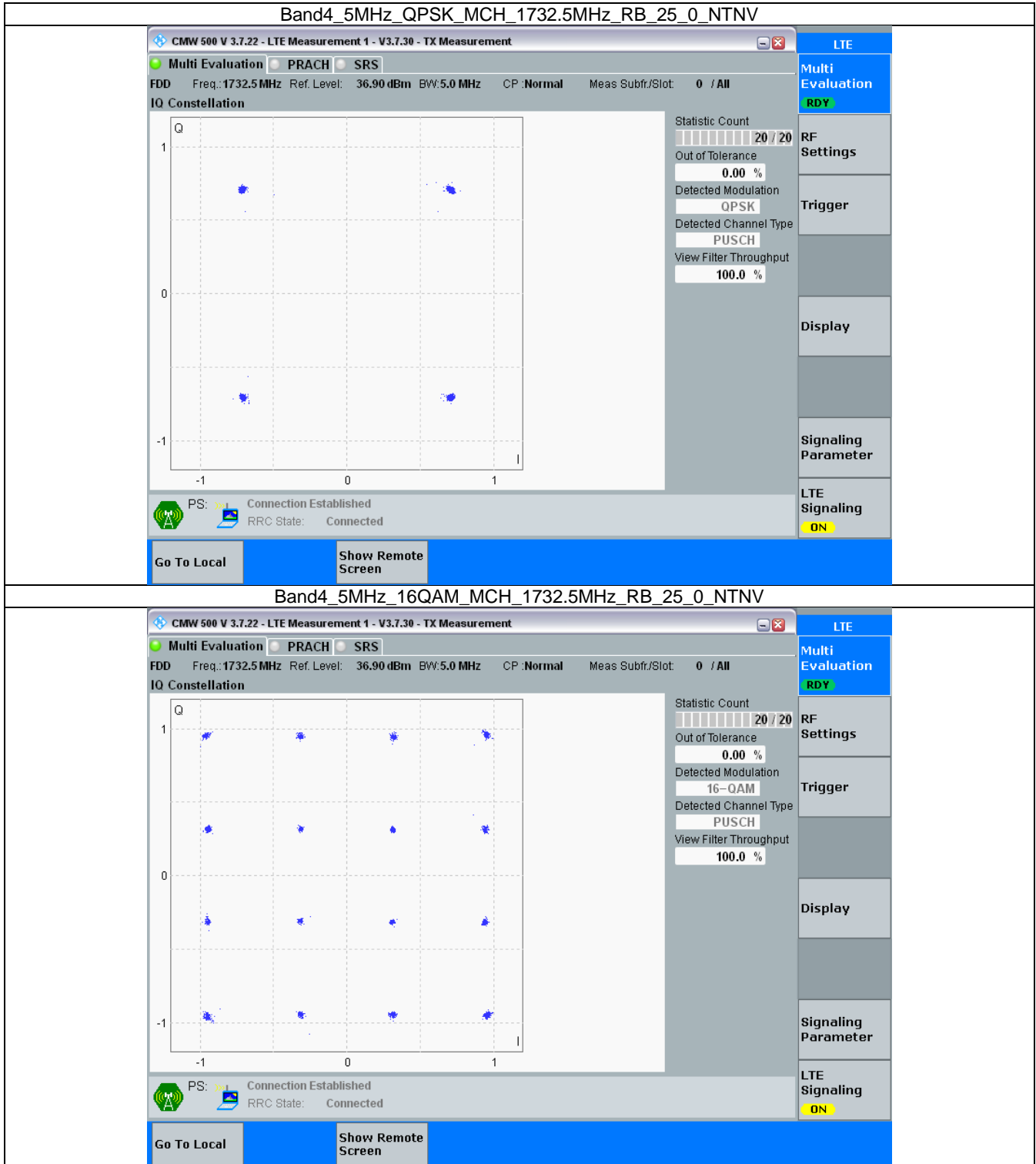


3.3 B4_5MHz

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

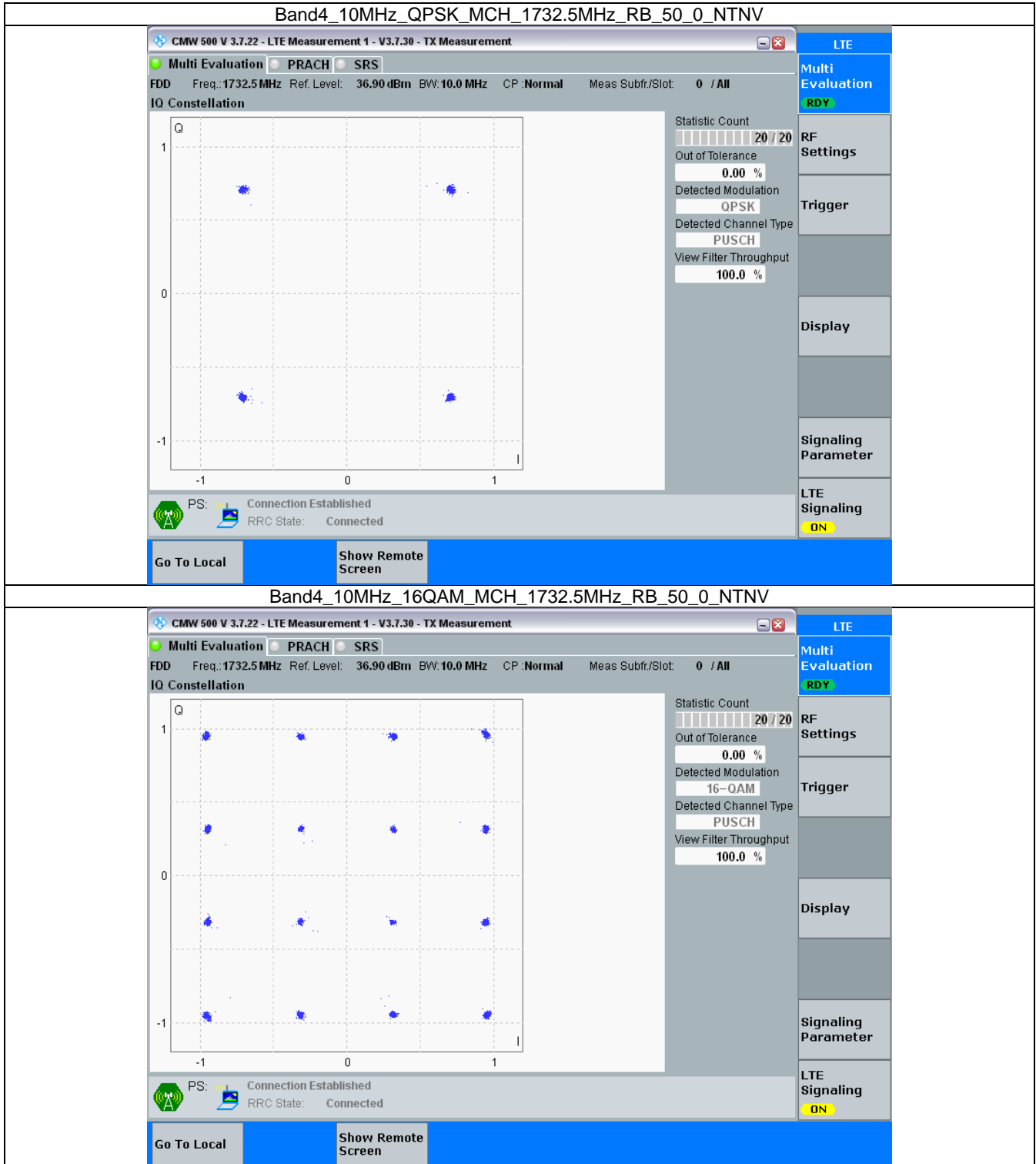


3.4 B4_10MHz

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

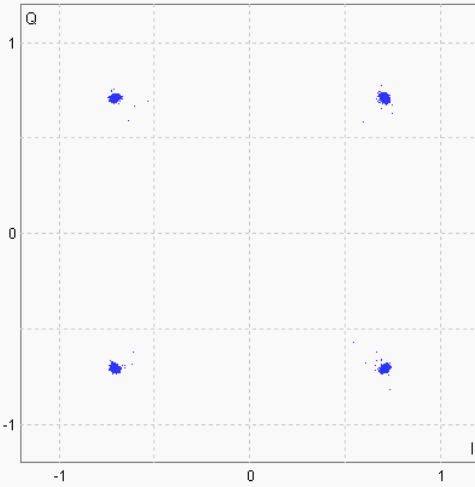
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV

CMW 500 V 3.7.22 - LTE Measurement 1 - V3.7.30 - TX Measurement

● Multi Evaluation ● PRACH ● SRS

FDD Freq.: 1732.5 MHz Ref. Level: 38.40 dBm BW: 15.0 MHz CP: Normal Meas Subfr./Slot: 7 / All

IQ Constellation



Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: QPSK

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

● PS: Connection Established
● RRC State: Connected

Go To Local Show Remote Screen

LTE

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling

ON

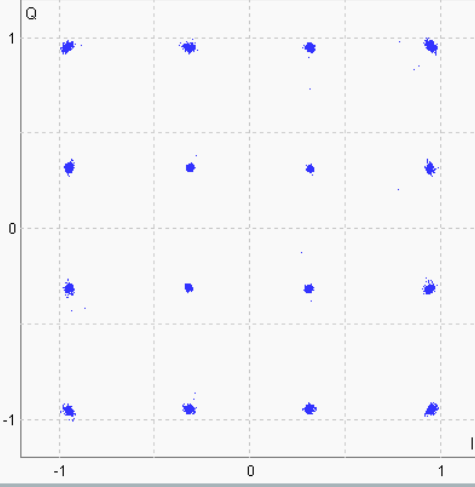
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV

CMW 500 V 3.7.22 - LTE Measurement 1 - V3.7.30 - TX Measurement

● Multi Evaluation ● PRACH ● SRS

FDD Freq.: 1732.5 MHz Ref. Level: 38.40 dBm BW: 15.0 MHz CP: Normal Meas Subfr./Slot: 7 / All

IQ Constellation



Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 16-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

● PS: Connection Established
● RRC State: Connected

Go To Local Show Remote Screen

LTE

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling

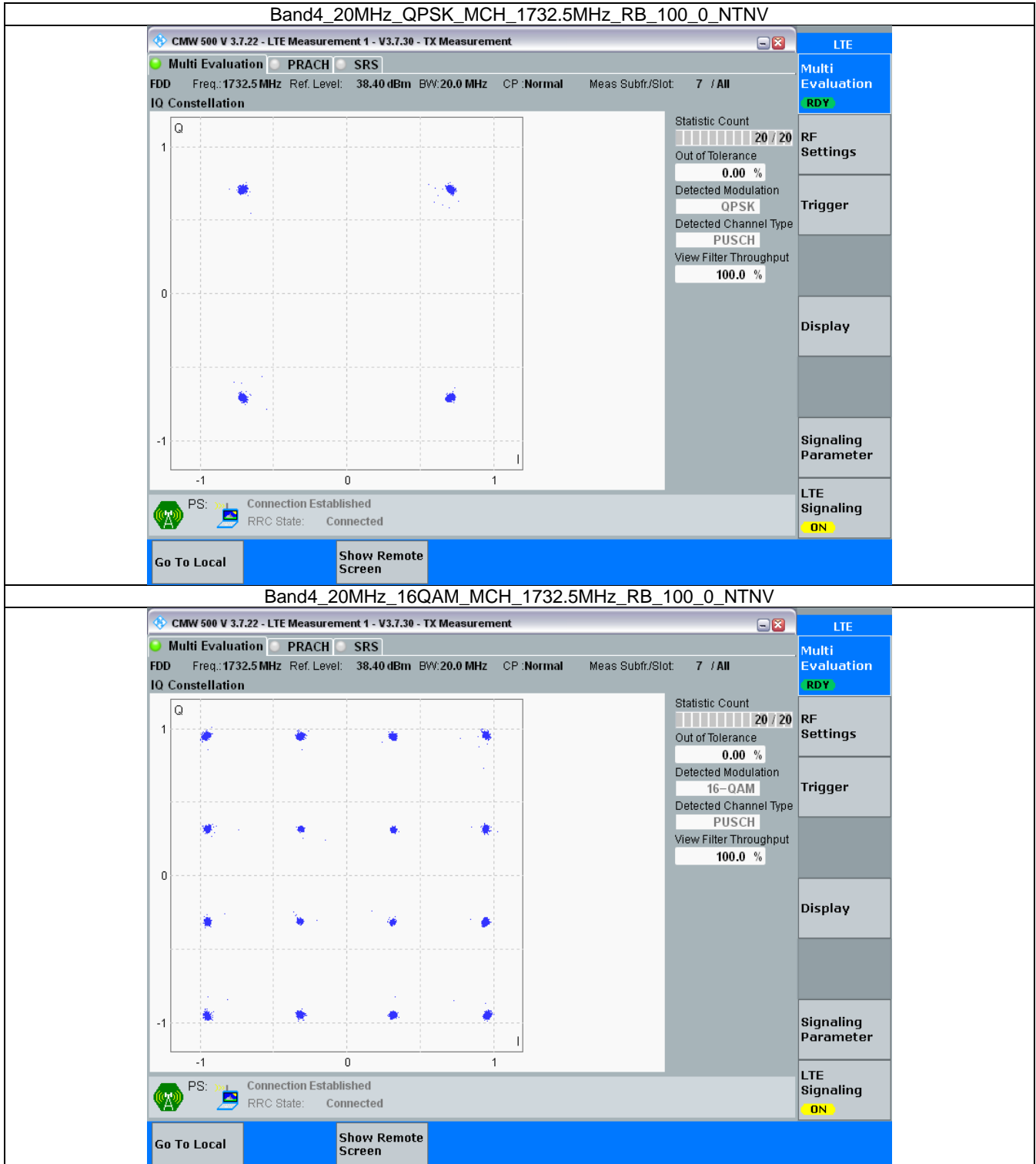
ON

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



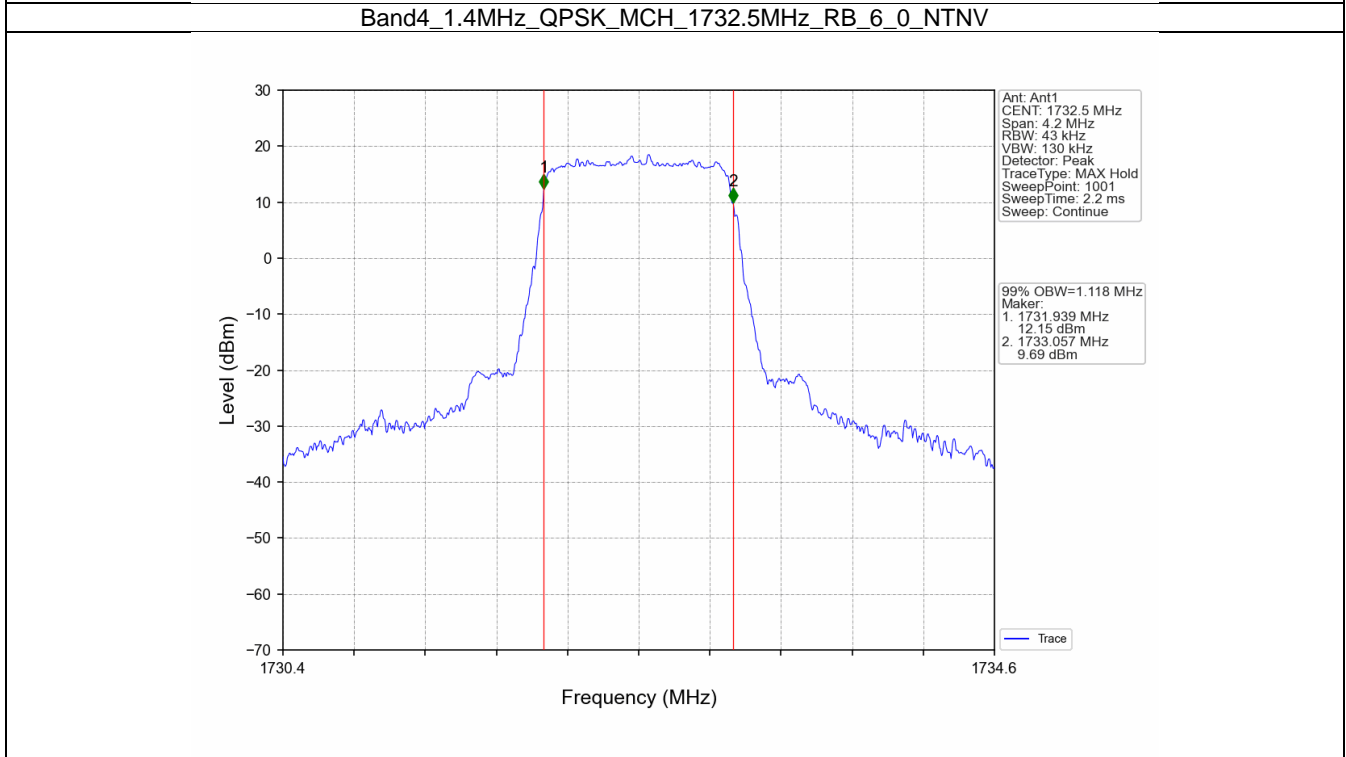
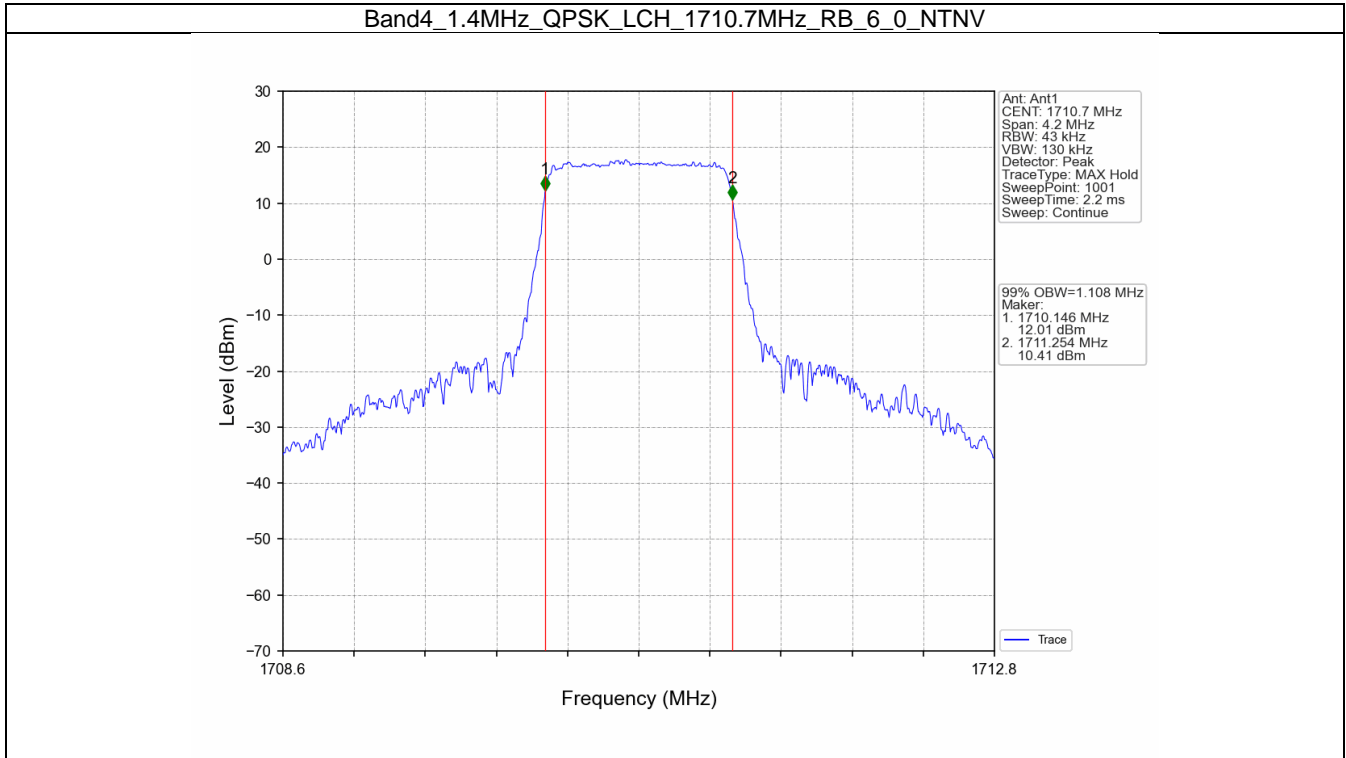
4. 99% & 26dB Bandwidth

4.1 Band4_OBW

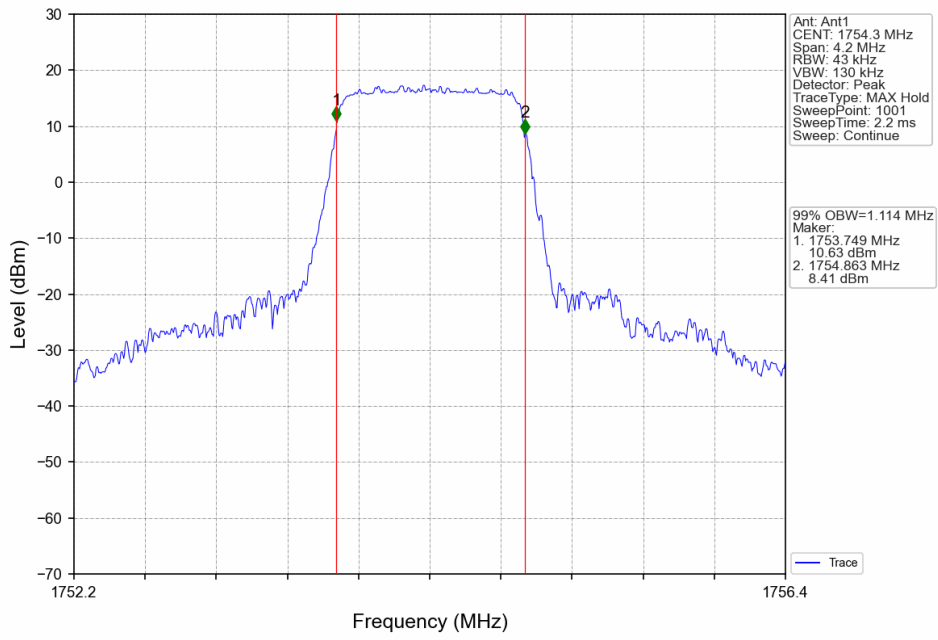
4.1.1 Test Result

Band: 4 / NTN						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.108	Pass
		1732.5	6	0	1.118	Pass
		1754.3	6	0	1.114	Pass
	16QAM	1710.7	6	0	1.110	Pass
		1732.5	6	0	1.108	Pass
		1754.3	6	0	1.107	Pass
3	QPSK	1711.5	15	0	2.735	Pass
		1732.5	15	0	2.719	Pass
		1753.5	15	0	2.726	Pass
	16QAM	1711.5	15	0	2.708	Pass
		1732.5	15	0	2.721	Pass
		1753.5	15	0	2.717	Pass
5	QPSK	1712.5	25	0	4.536	Pass
		1732.5	25	0	4.538	Pass
		1752.5	25	0	4.553	Pass
	16QAM	1712.5	25	0	4.529	Pass
		1732.5	25	0	4.552	Pass
		1752.5	25	0	4.529	Pass
10	QPSK	1715	50	0	9.042	Pass
		1732.5	50	0	9.031	Pass
		1750	50	0	9.062	Pass
	16QAM	1715	50	0	9.040	Pass
		1732.5	50	0	9.050	Pass
		1750	50	0	9.052	Pass
15	QPSK	1717.5	75	0	13.558	Pass
		1732.5	75	0	13.551	Pass
		1747.5	75	0	13.599	Pass
	16QAM	1717.5	75	0	13.575	Pass
		1732.5	75	0	13.608	Pass
		1747.5	75	0	13.621	Pass
20	QPSK	1720	100	0	18.089	Pass
		1732.5	100	0	18.109	Pass
		1745	100	0	18.130	Pass
	16QAM	1720	100	0	18.034	Pass
		1732.5	100	0	18.127	Pass
		1745	100	0	18.099	Pass

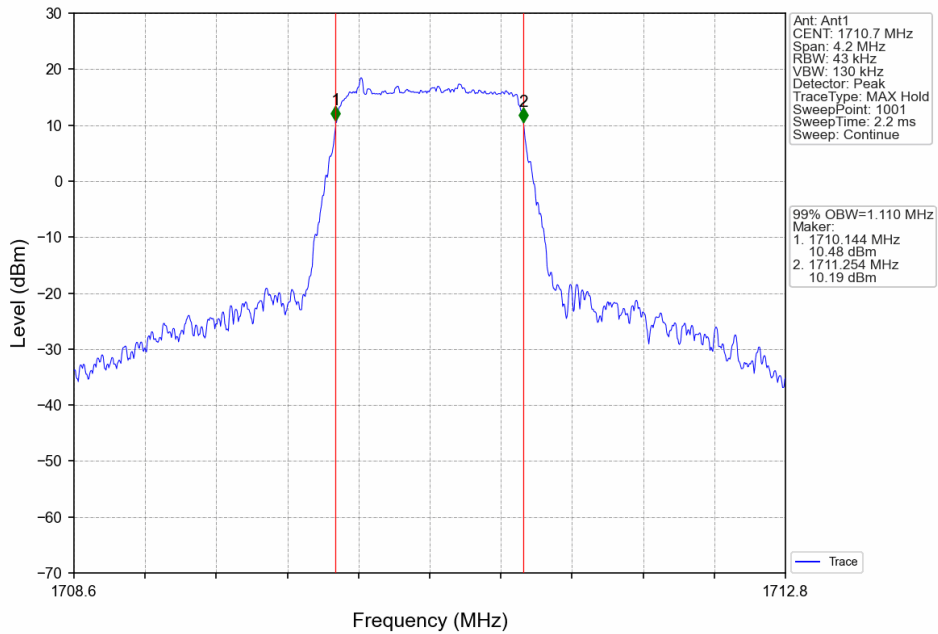
4.1.2 Test Graph



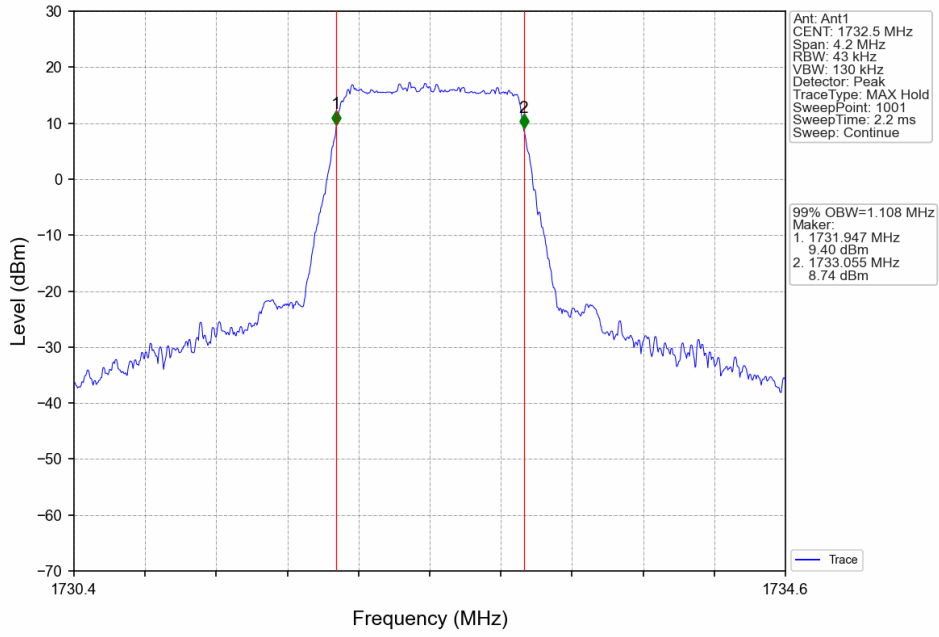
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



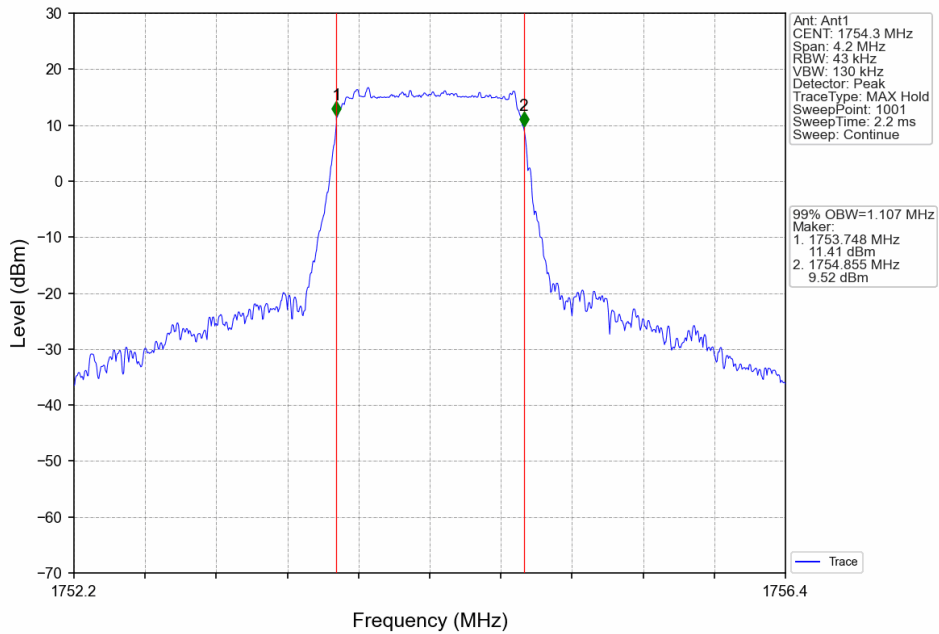
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



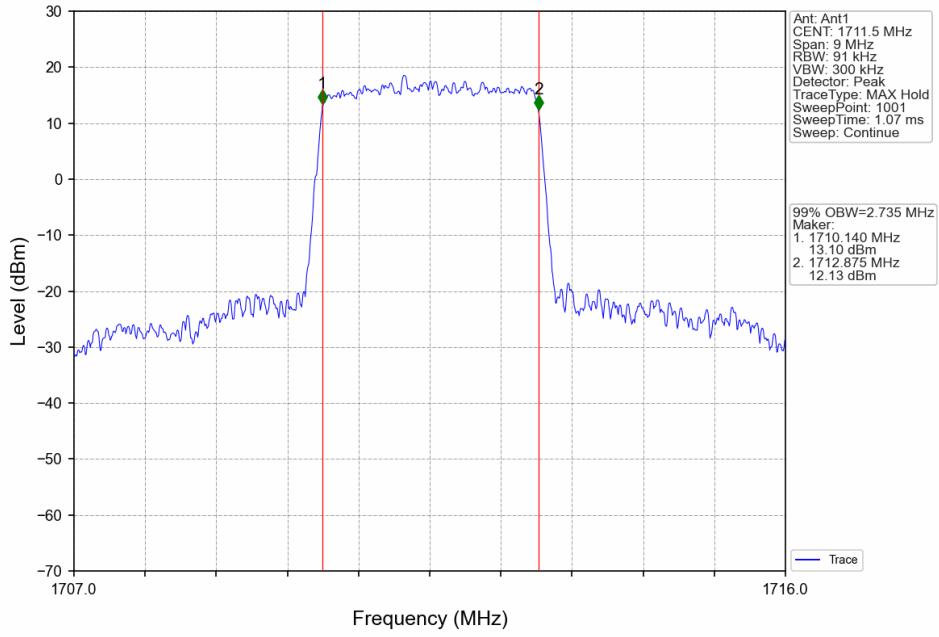
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



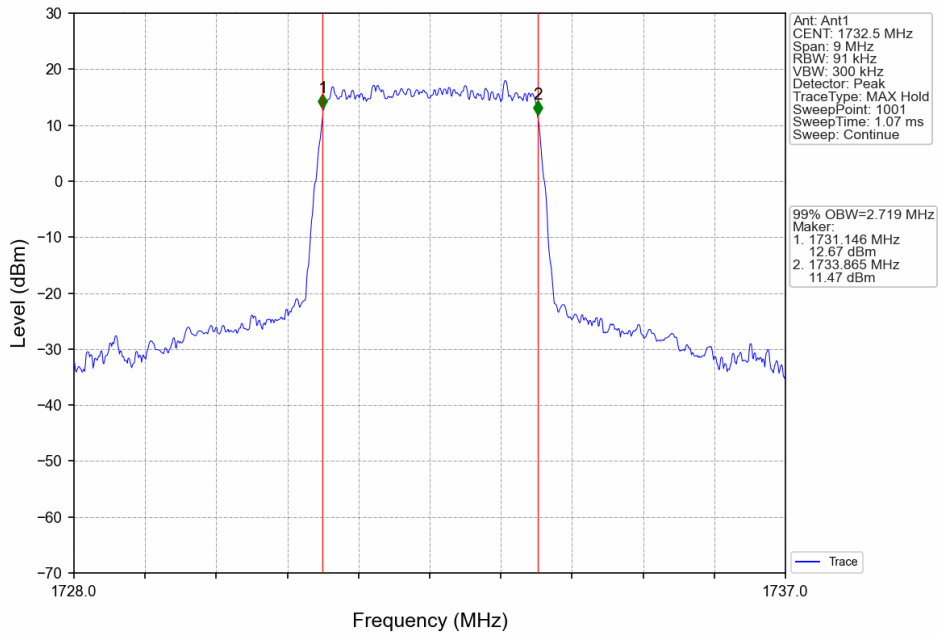
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



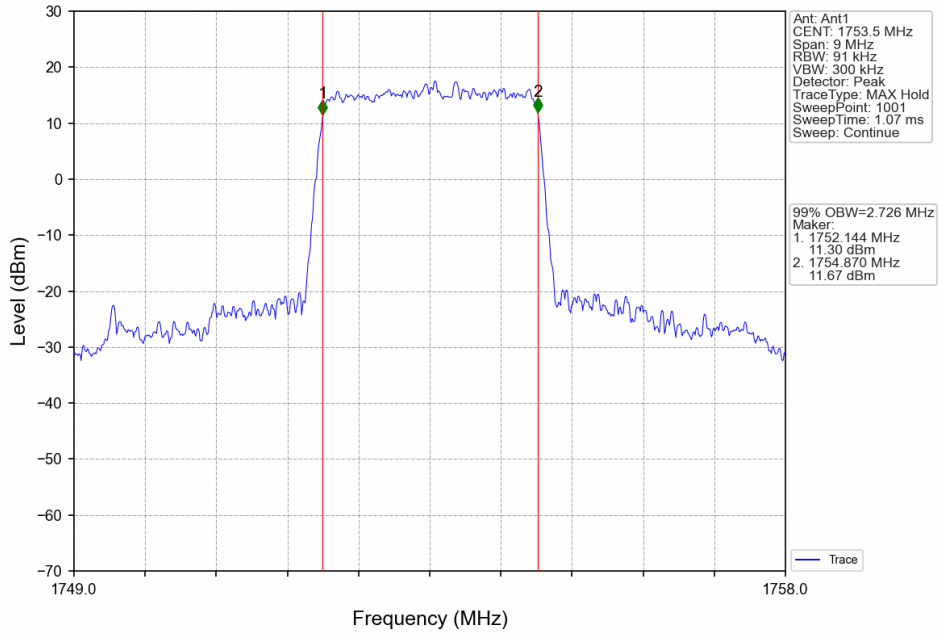
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



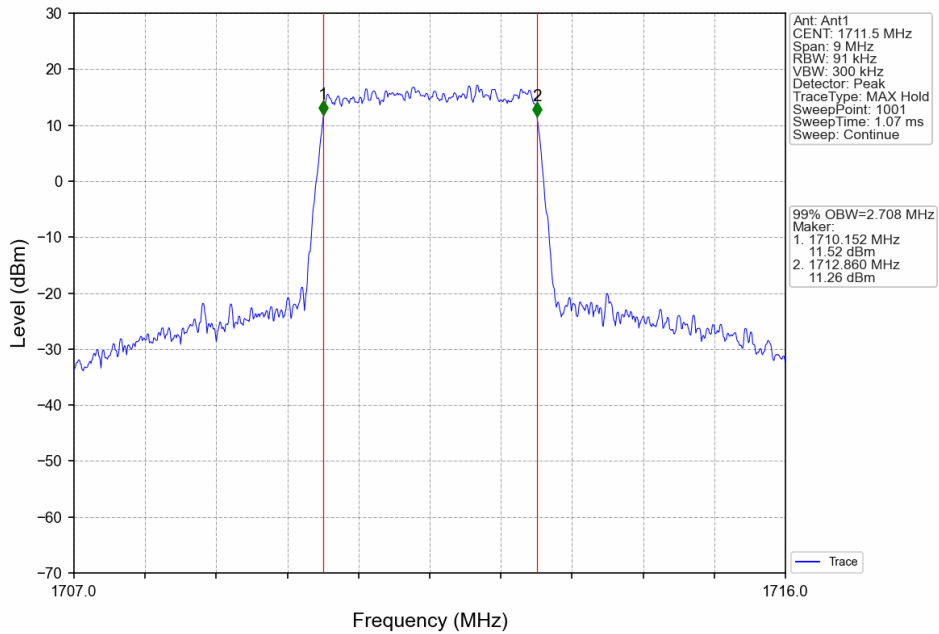
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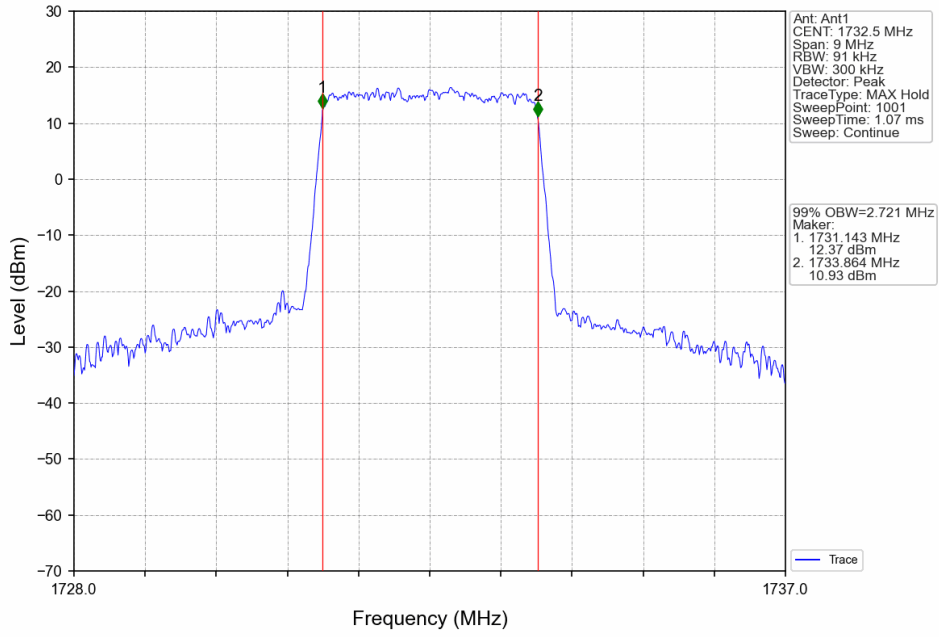
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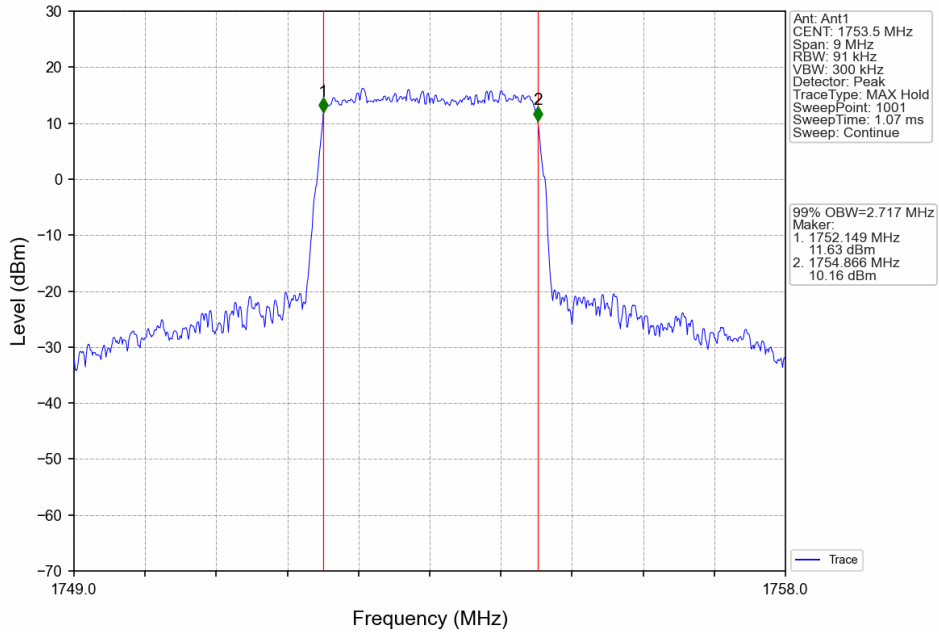
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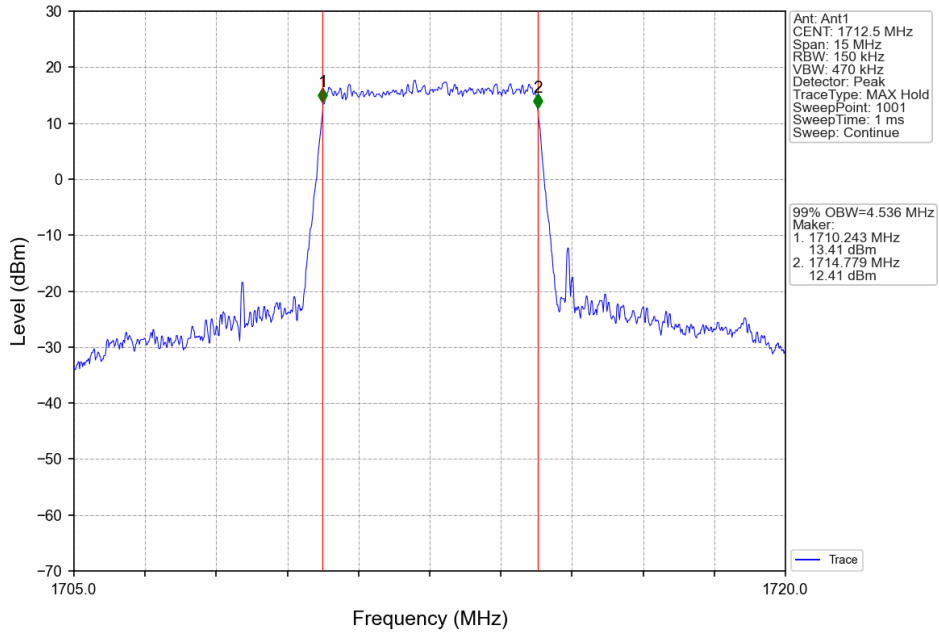
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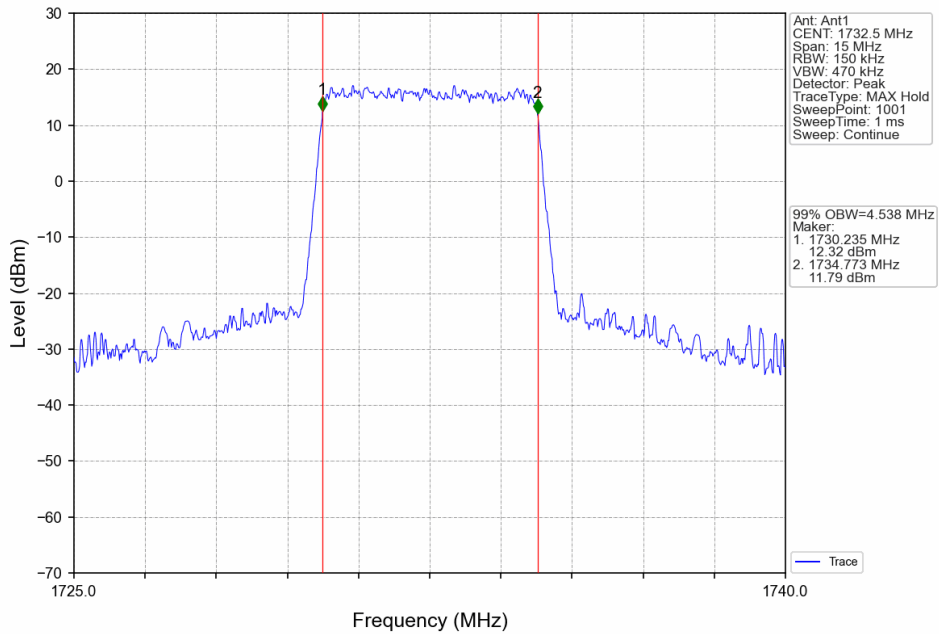
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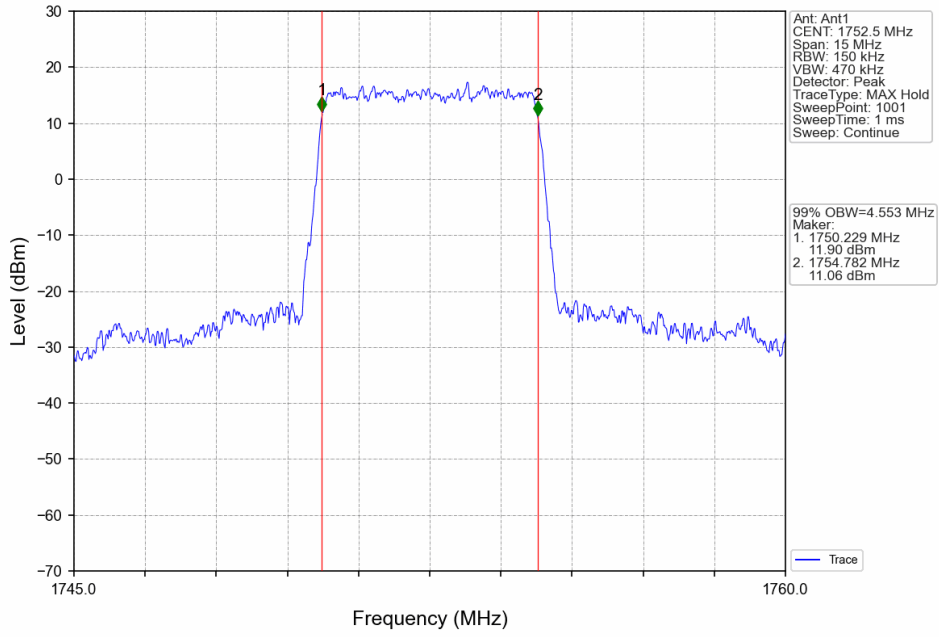
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



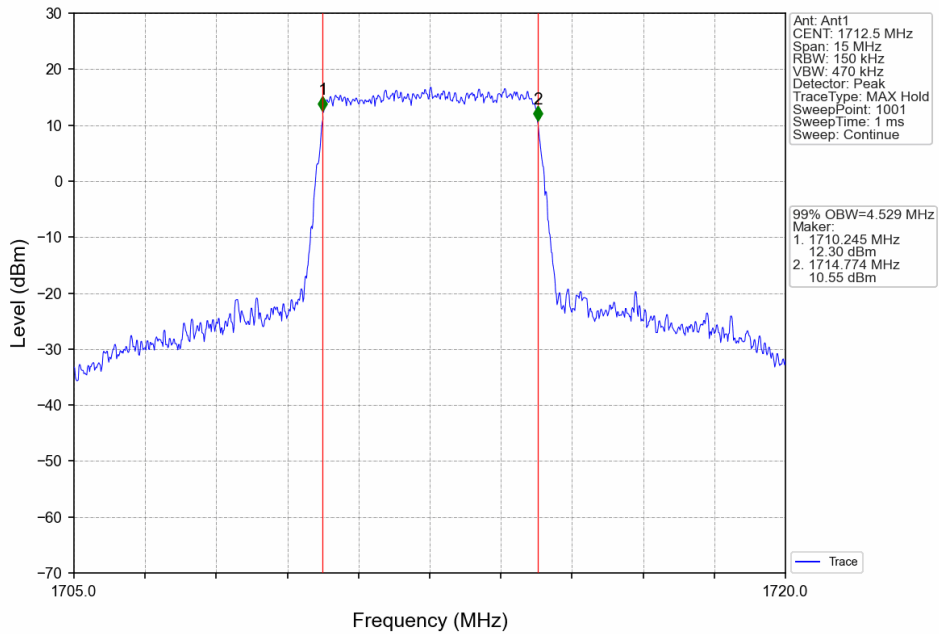
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



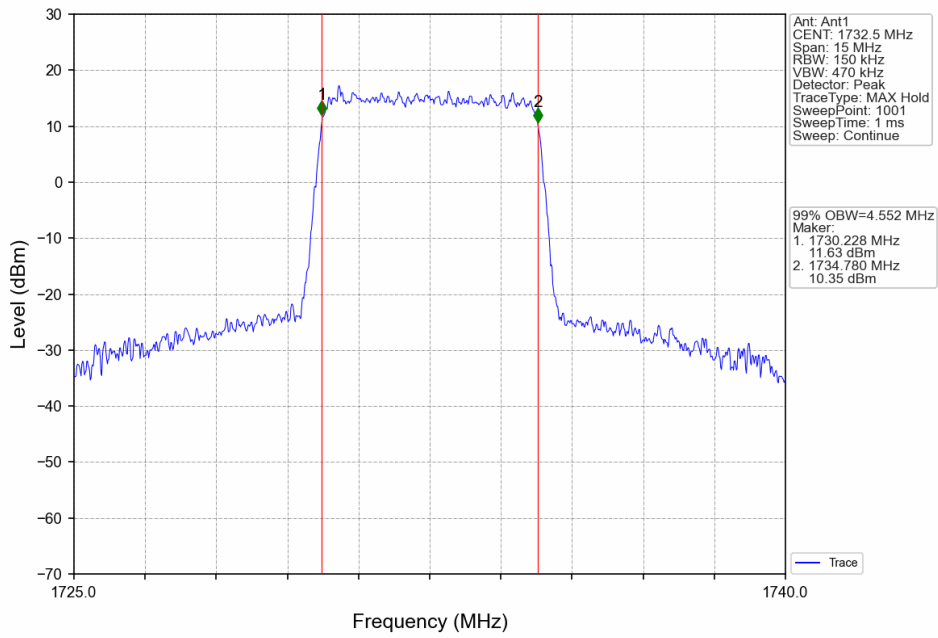
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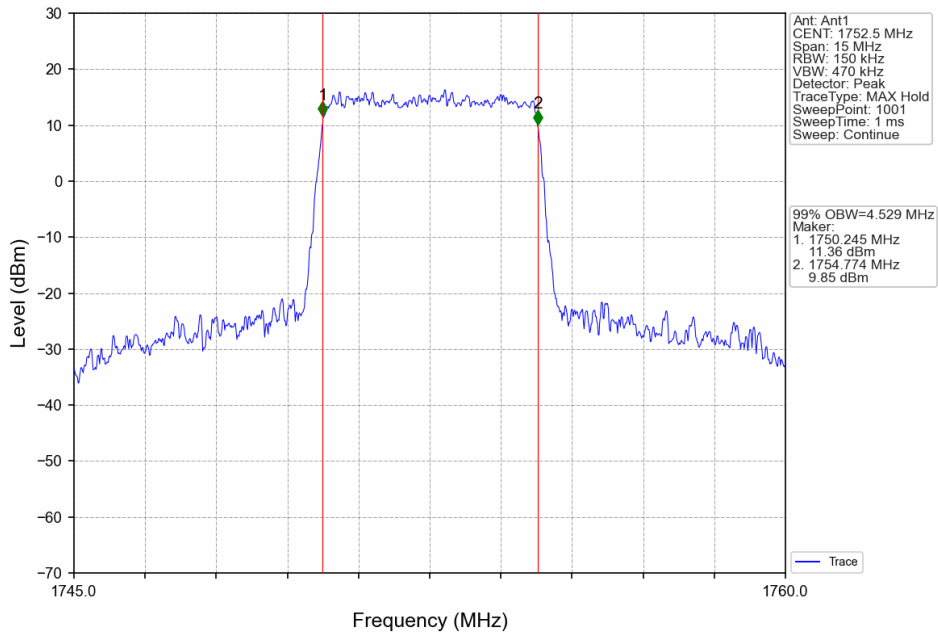
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



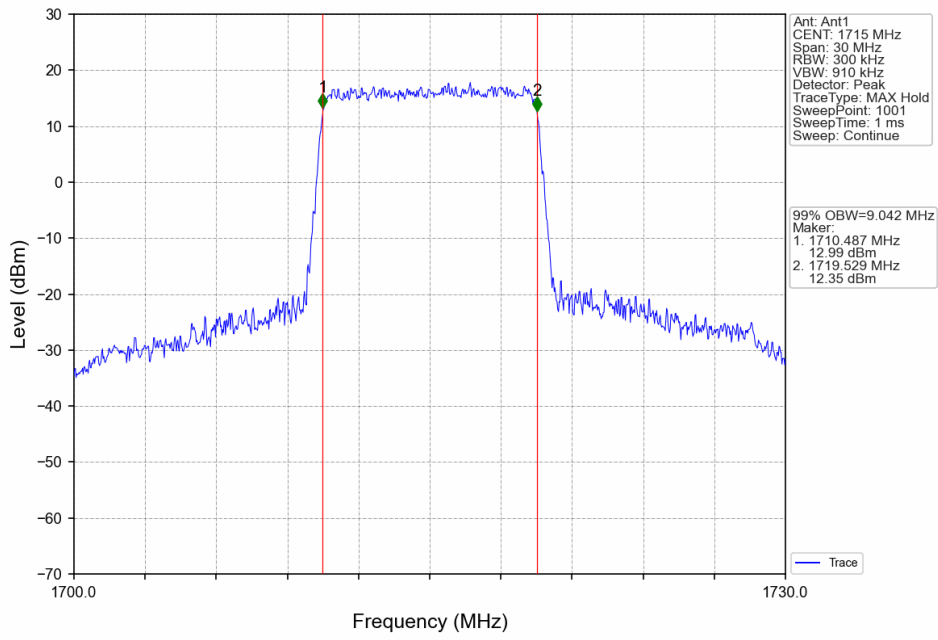
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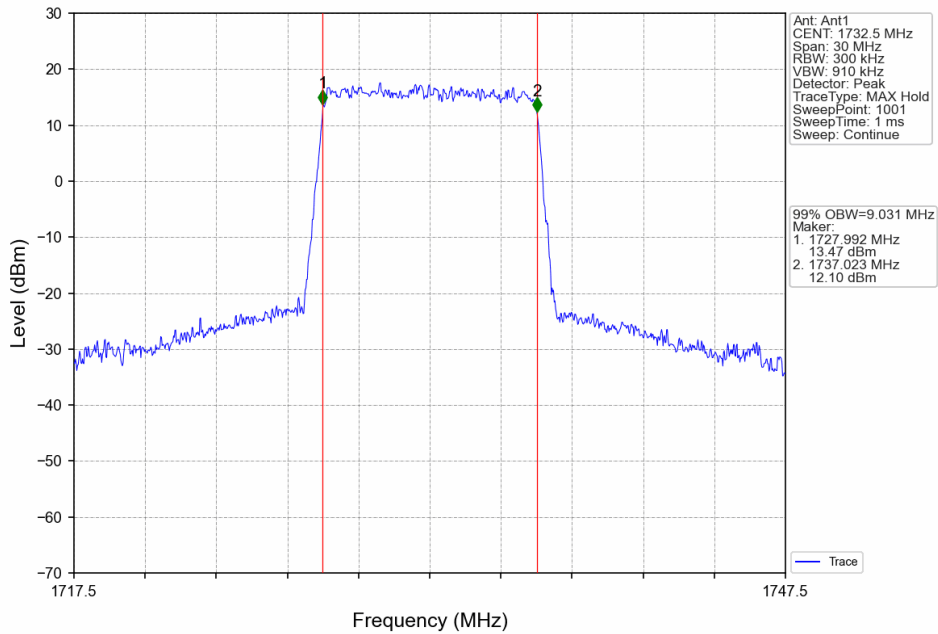
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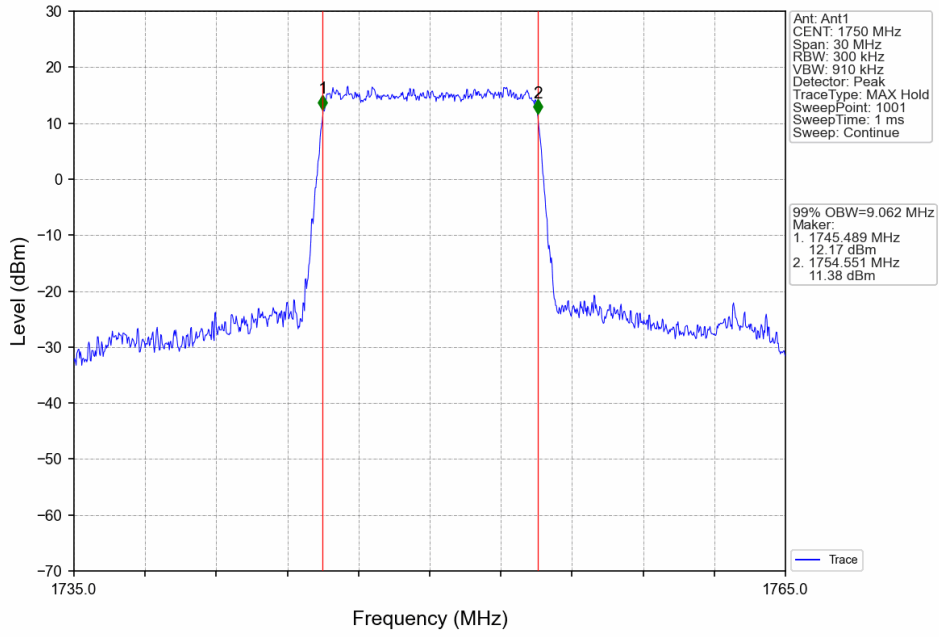
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



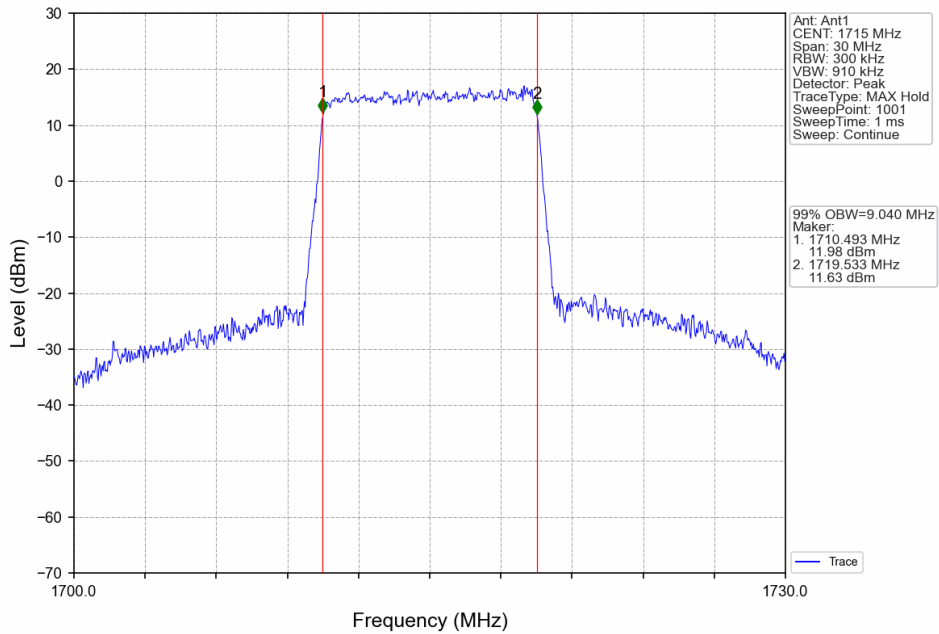
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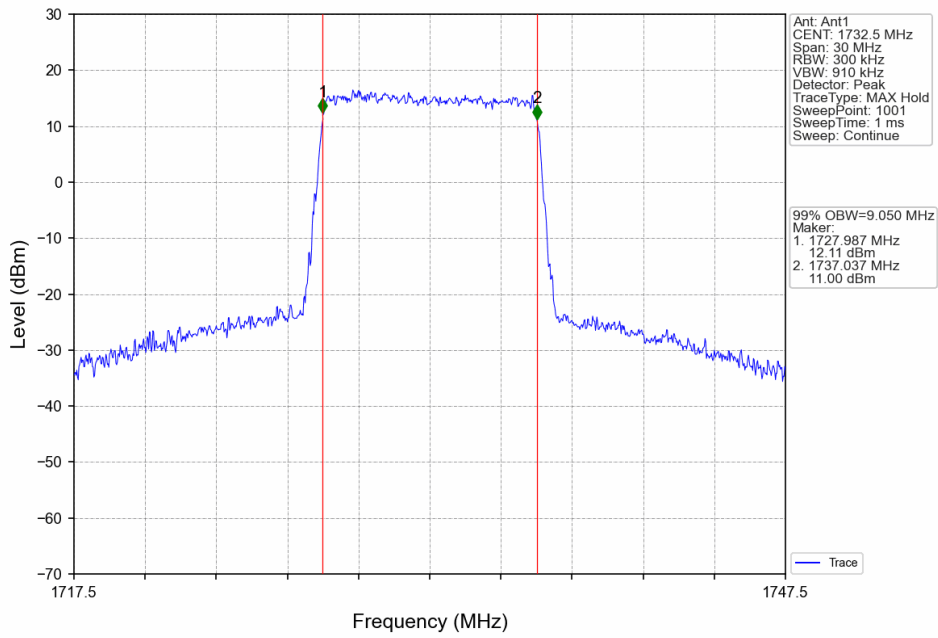
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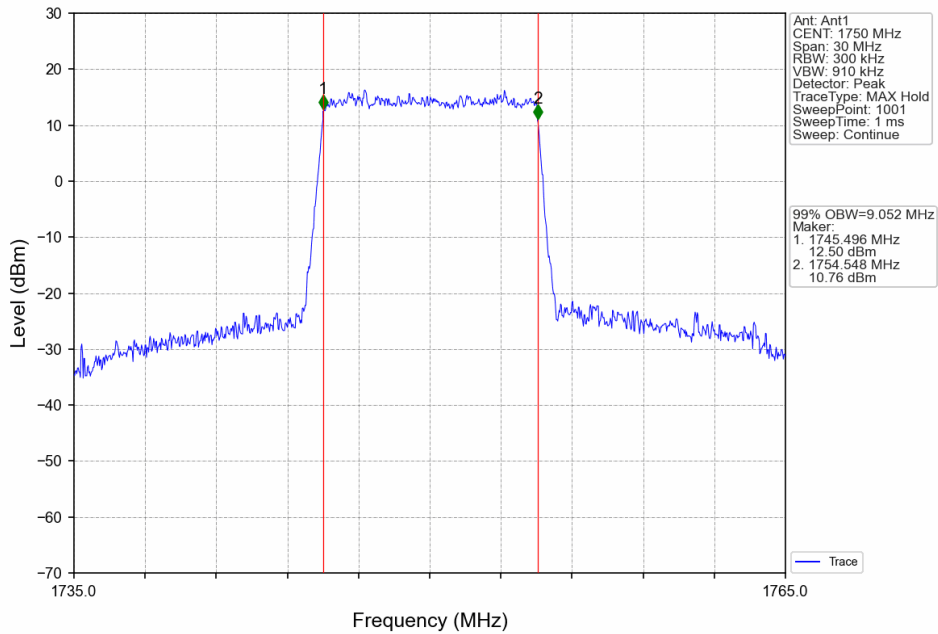
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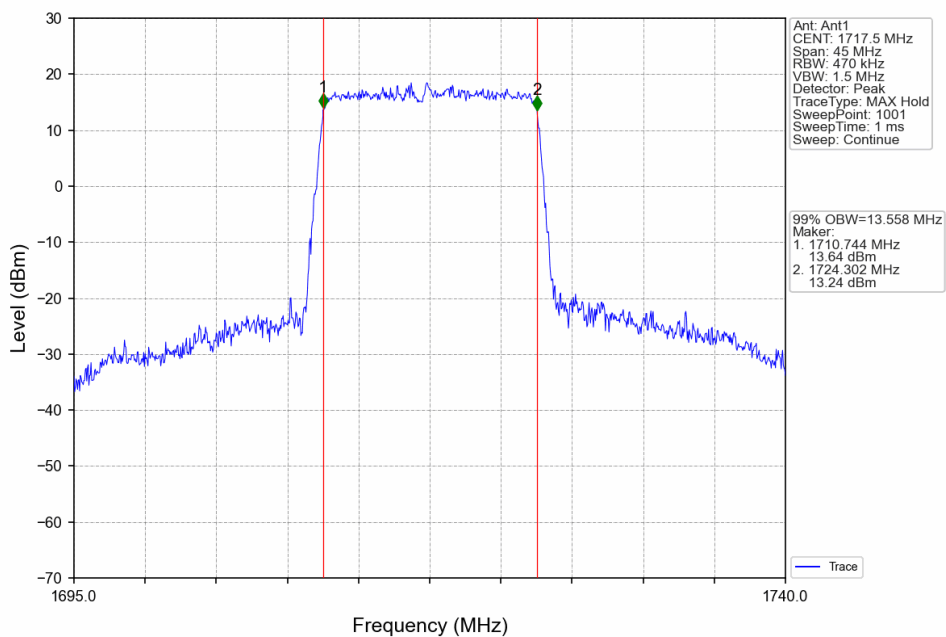
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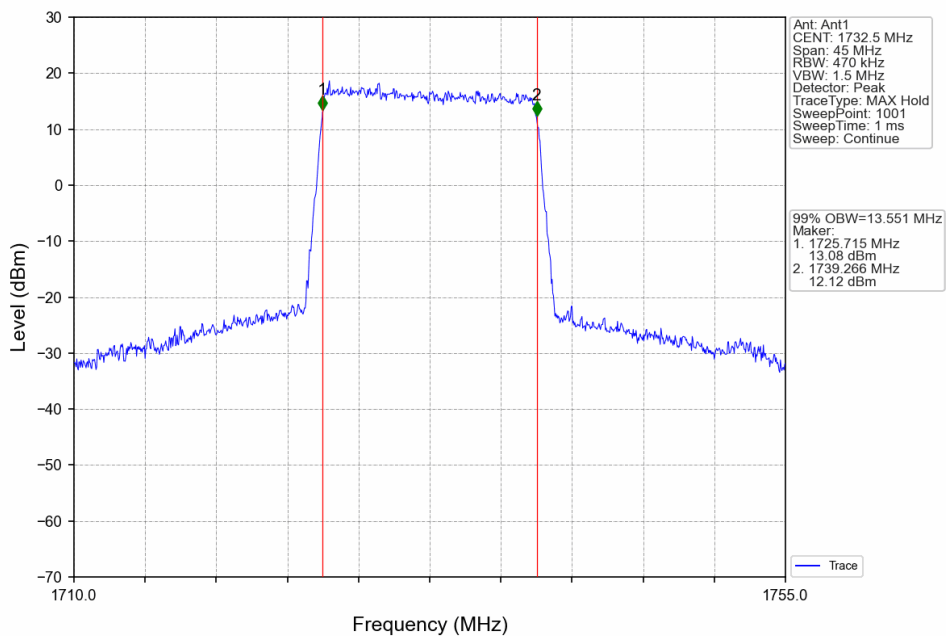
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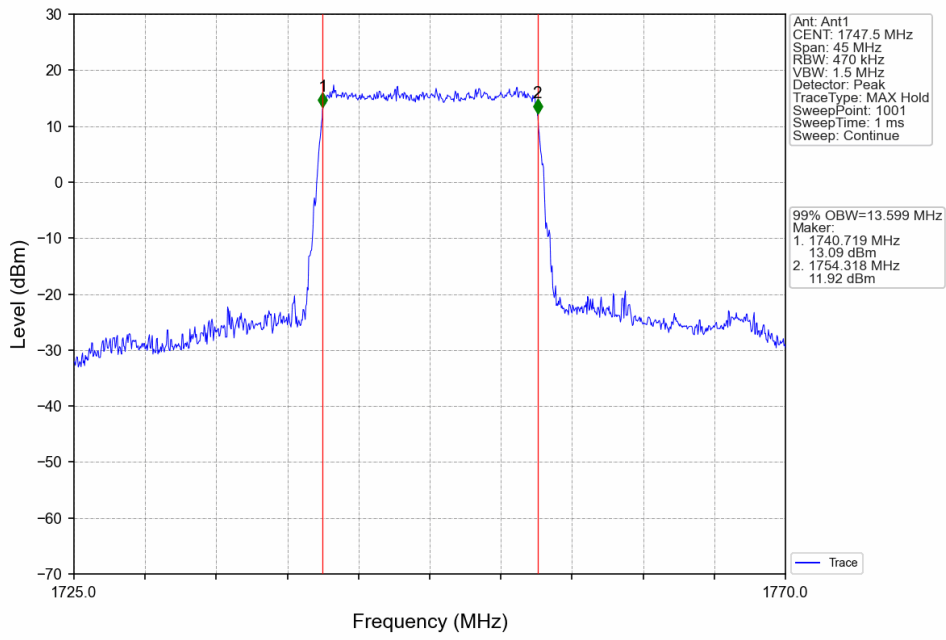
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



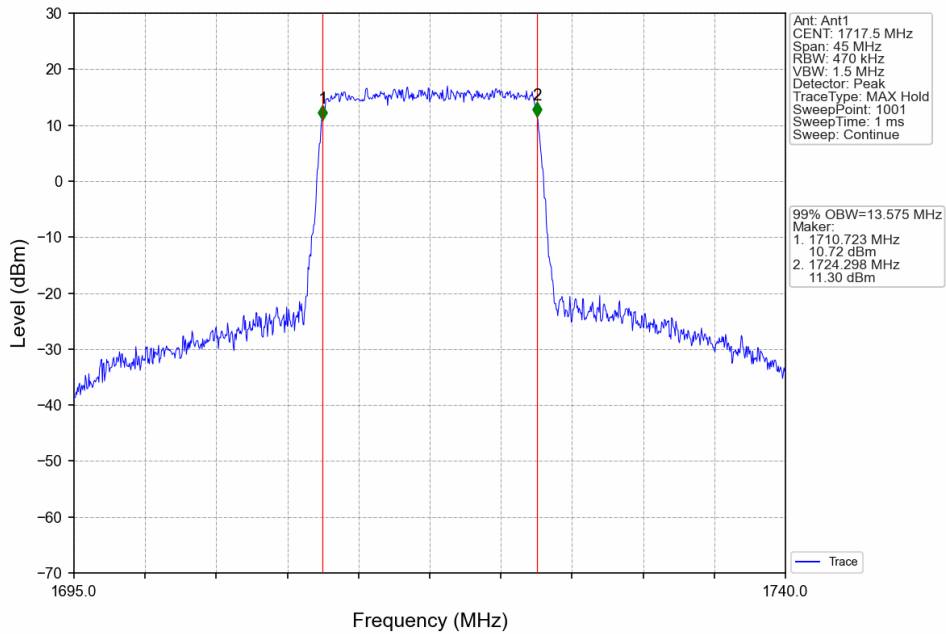
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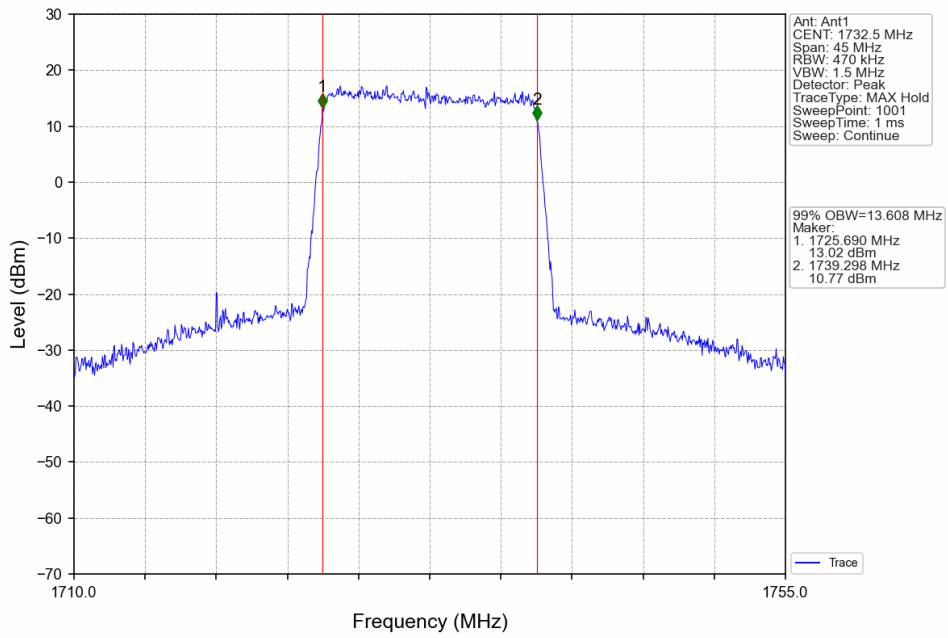
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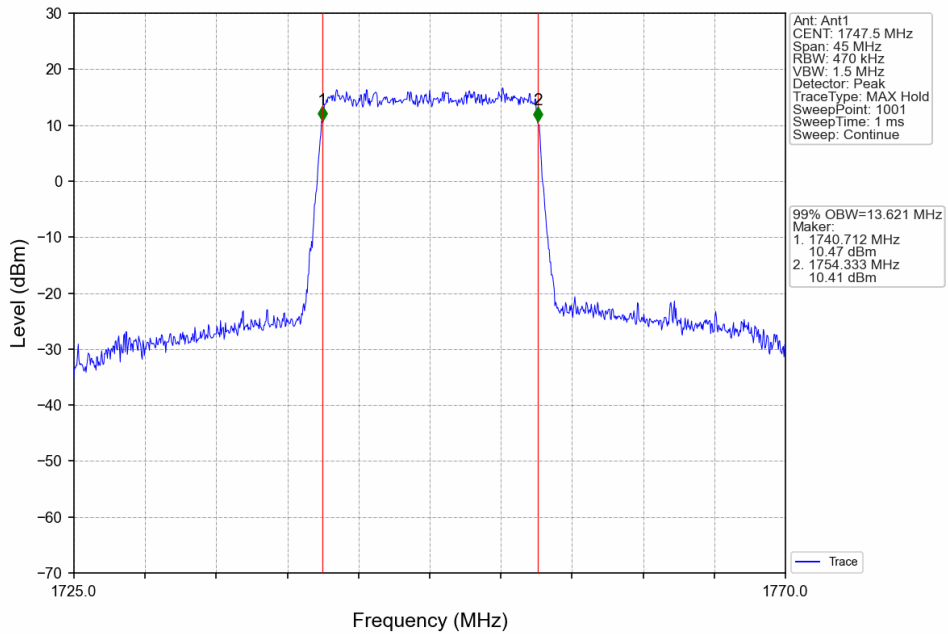
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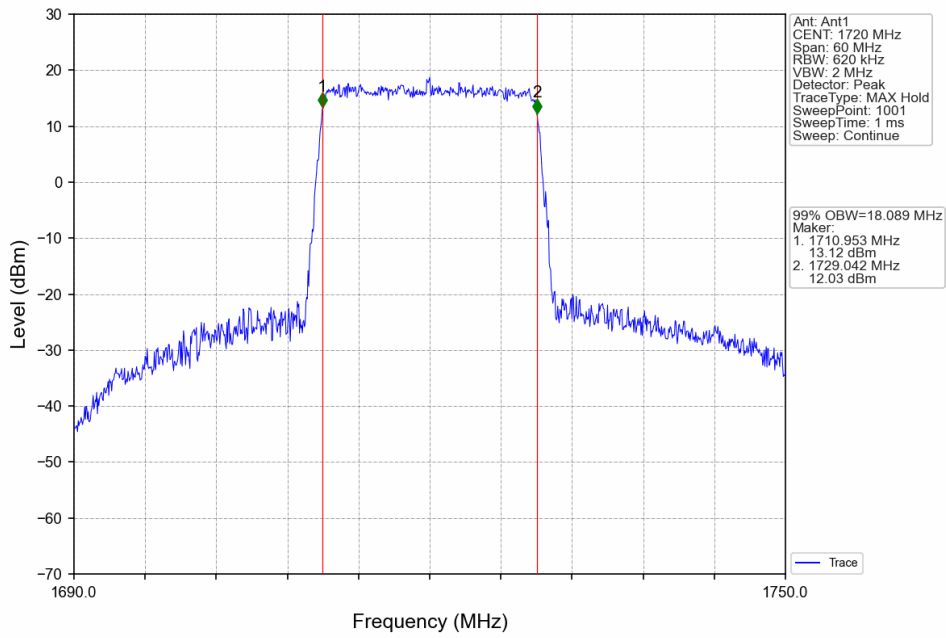
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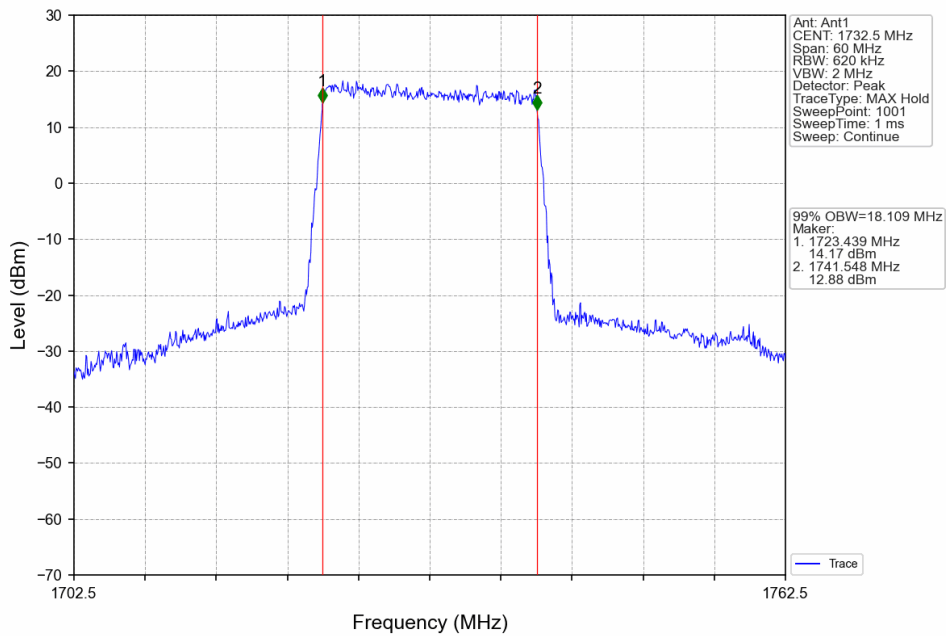
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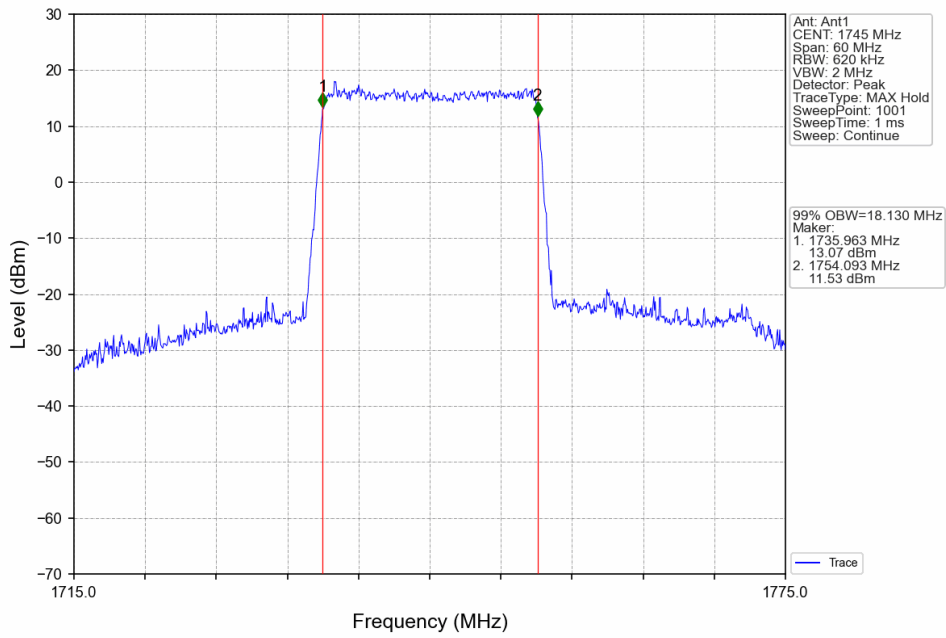
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



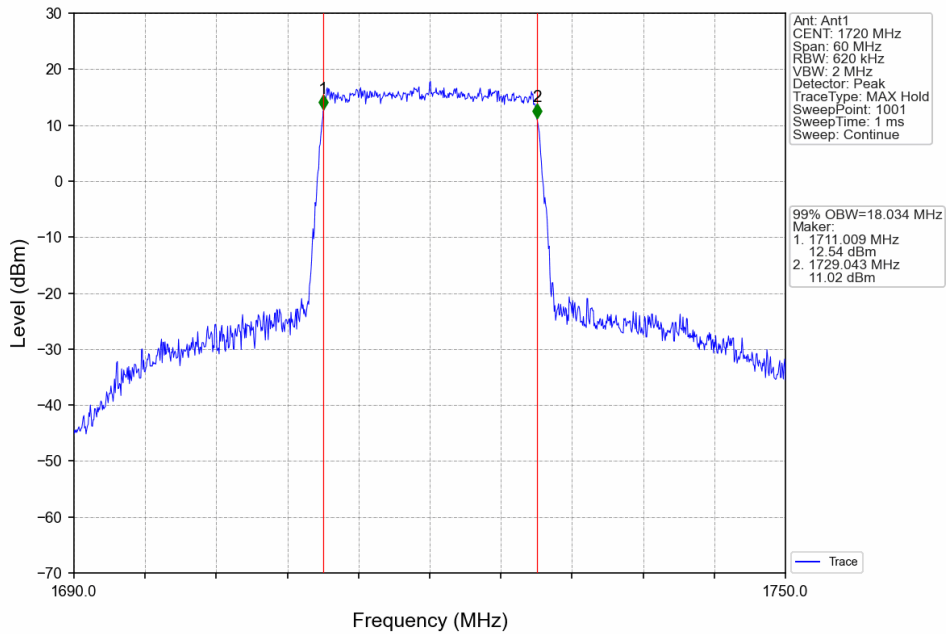
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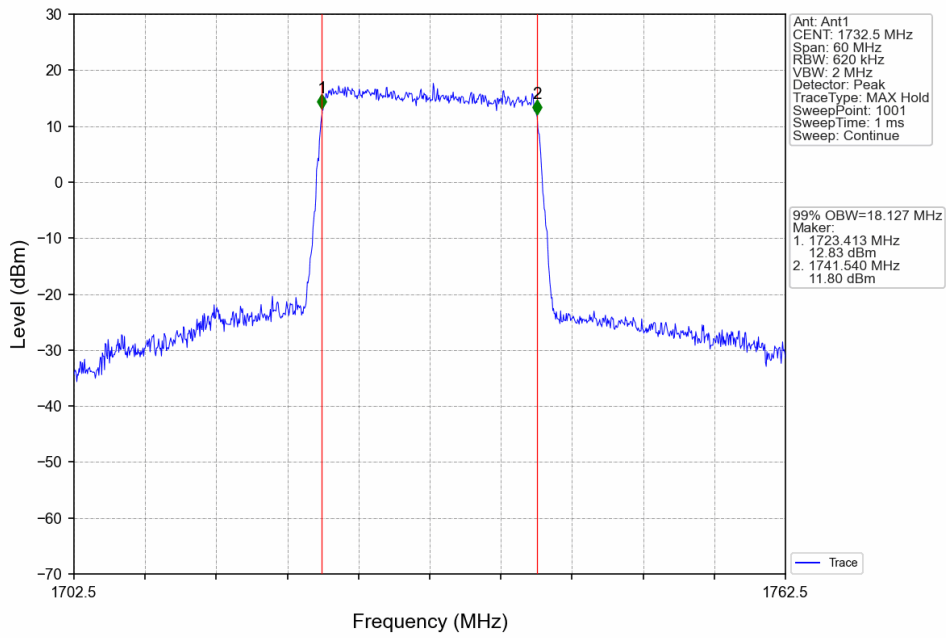
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



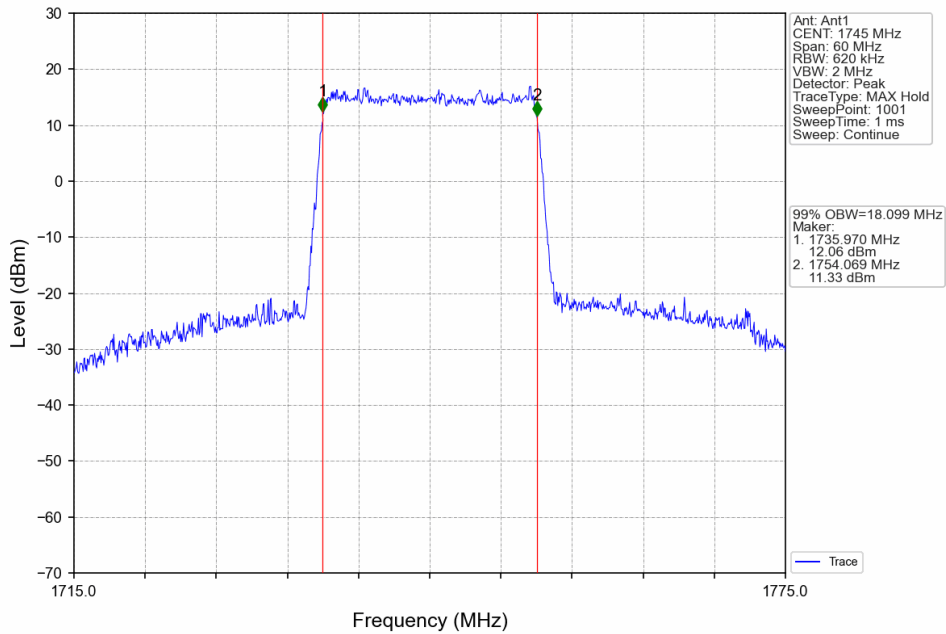
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

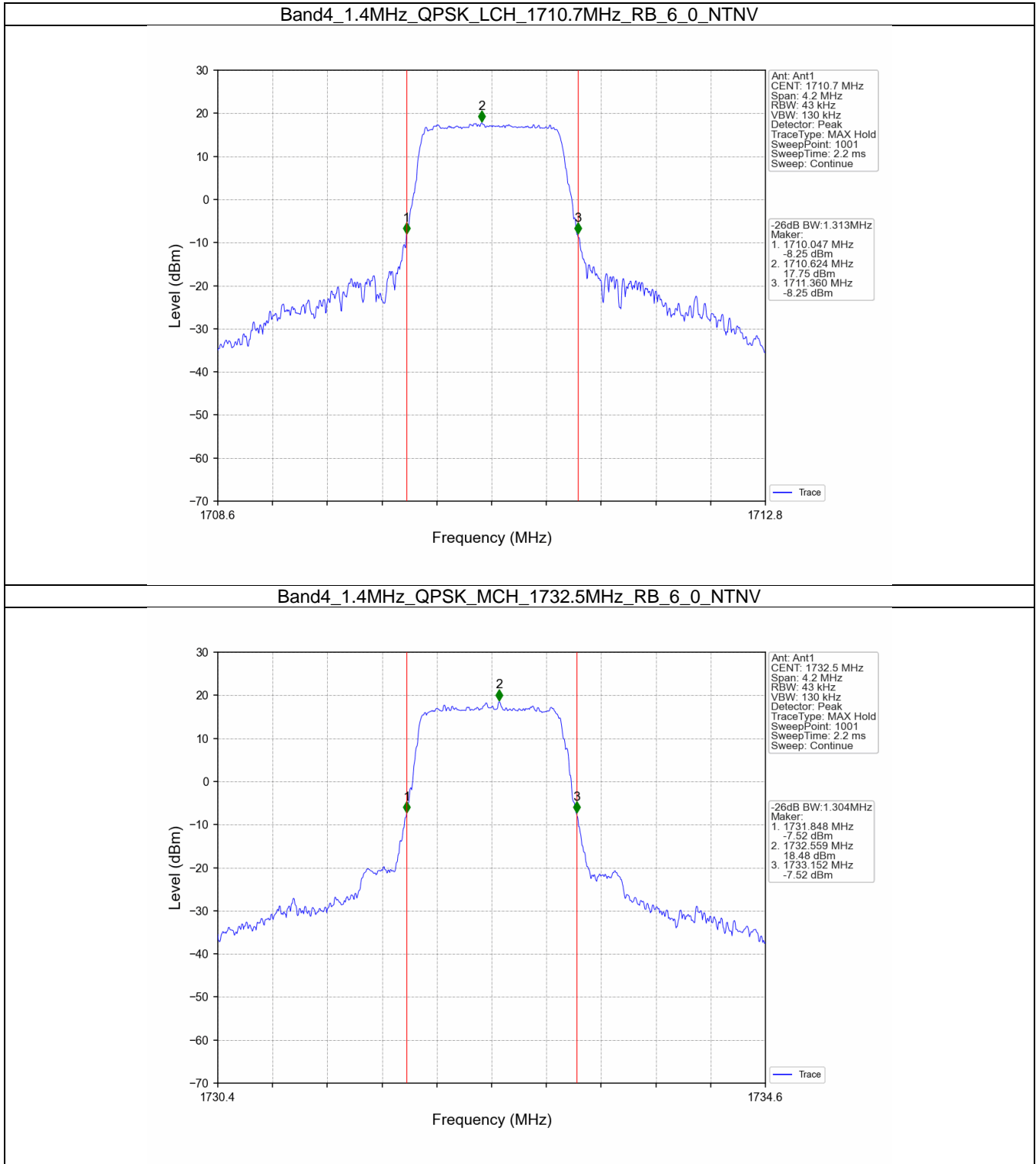


4.2 Band4_XDB

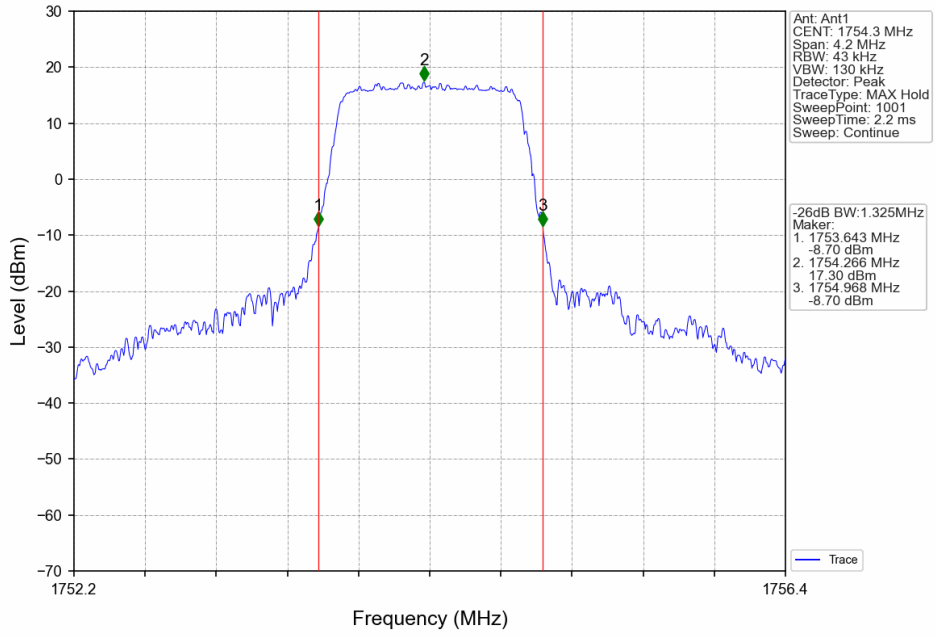
4.2.1 Test Result

Band: 4 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.313	Pass
		1732.5	6	0	1.304	Pass
		1754.3	6	0	1.325	Pass
	16QAM	1710.7	6	0	1.319	Pass
		1732.5	6	0	1.336	Pass
		1754.3	6	0	1.303	Pass
3	QPSK	1711.5	15	0	2.980	Pass
		1732.5	15	0	2.992	Pass
		1753.5	15	0	2.987	Pass
	16QAM	1711.5	15	0	3.000	Pass
		1732.5	15	0	2.992	Pass
		1753.5	15	0	2.987	Pass
5	QPSK	1712.5	25	0	5.017	Pass
		1732.5	25	0	5.015	Pass
		1752.5	25	0	5.022	Pass
	16QAM	1712.5	25	0	5.033	Pass
		1732.5	25	0	5.012	Pass
		1752.5	25	0	4.968	Pass
10	QPSK	1715	50	0	9.924	Pass
		1732.5	50	0	9.959	Pass
		1750	50	0	9.972	Pass
	16QAM	1715	50	0	9.963	Pass
		1732.5	50	0	9.916	Pass
		1750	50	0	9.896	Pass
15	QPSK	1717.5	75	0	14.870	Pass
		1732.5	75	0	14.826	Pass
		1747.5	75	0	14.956	Pass
	16QAM	1717.5	75	0	14.790	Pass
		1732.5	75	0	14.915	Pass
		1747.5	75	0	14.809	Pass
20	QPSK	1720	100	0	19.804	Pass
		1732.5	100	0	19.848	Pass
		1745	100	0	19.643	Pass
	16QAM	1720	100	0	19.656	Pass
		1732.5	100	0	19.683	Pass
		1745	100	0	19.815	Pass

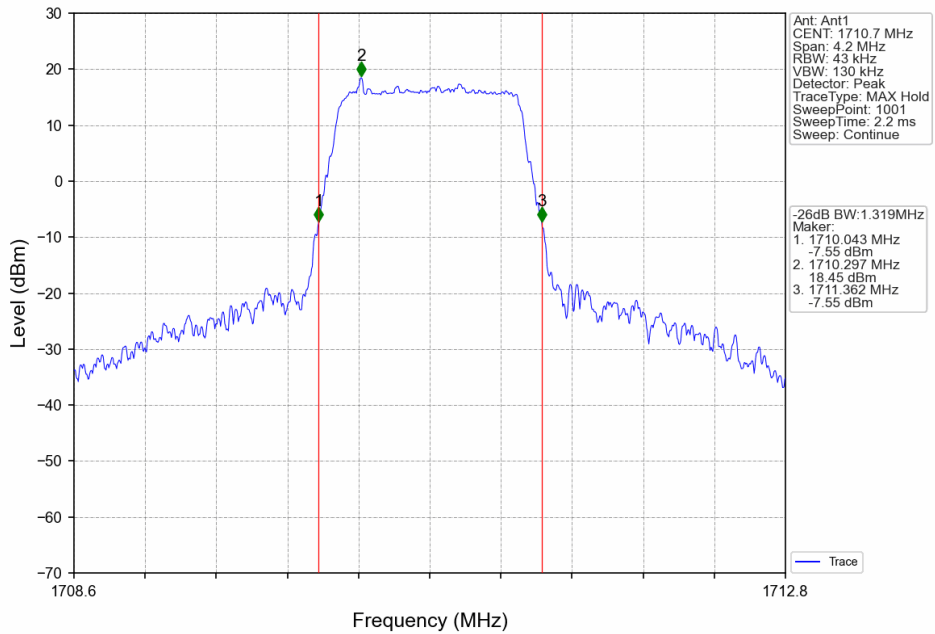
4.2.2 Test Graph



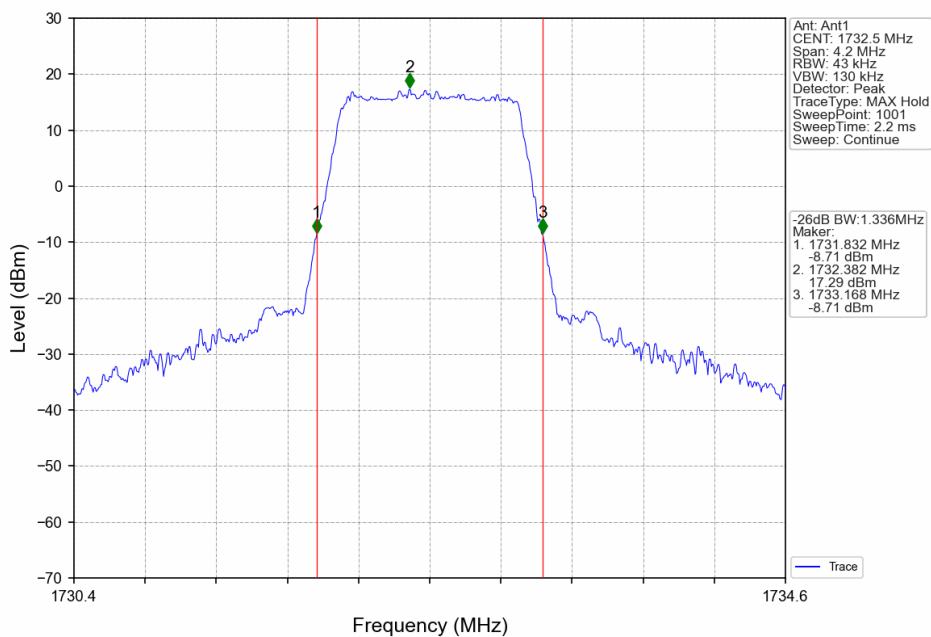
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



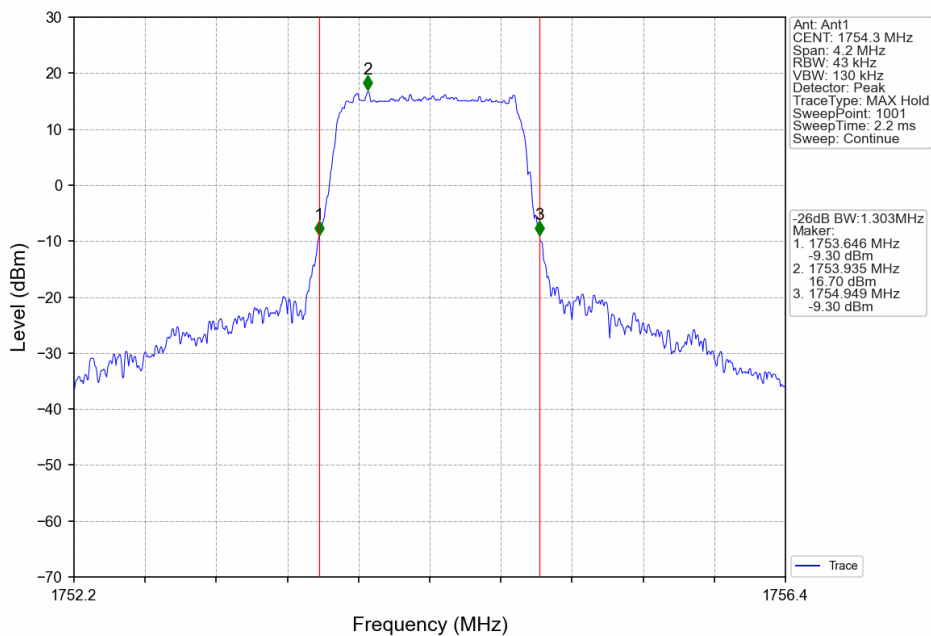
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



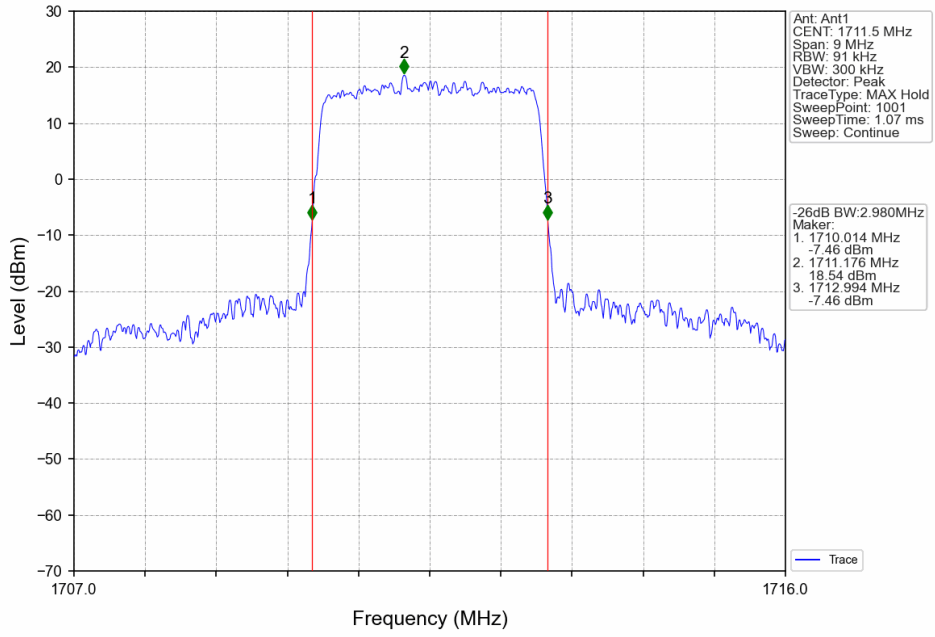
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



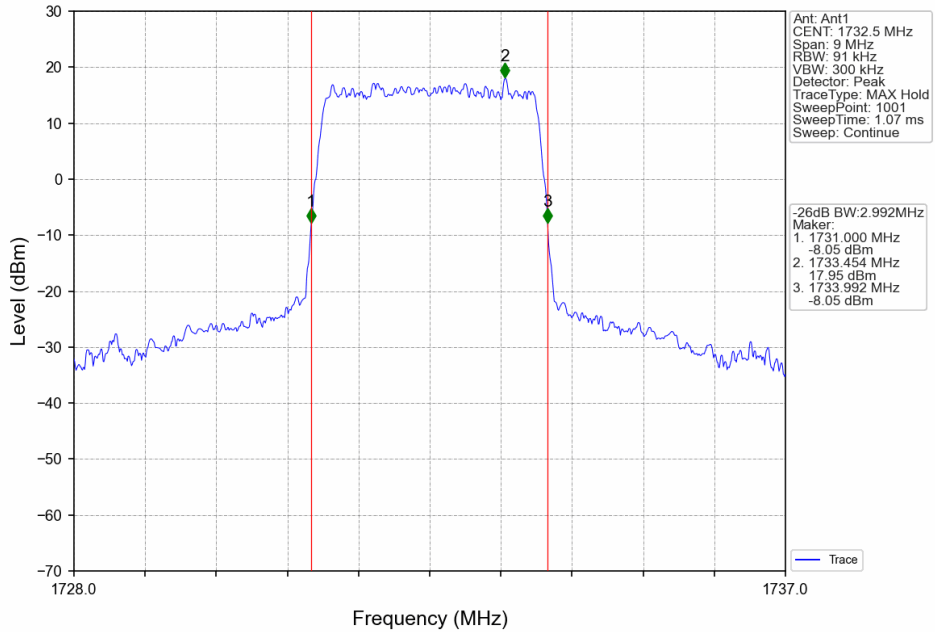
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



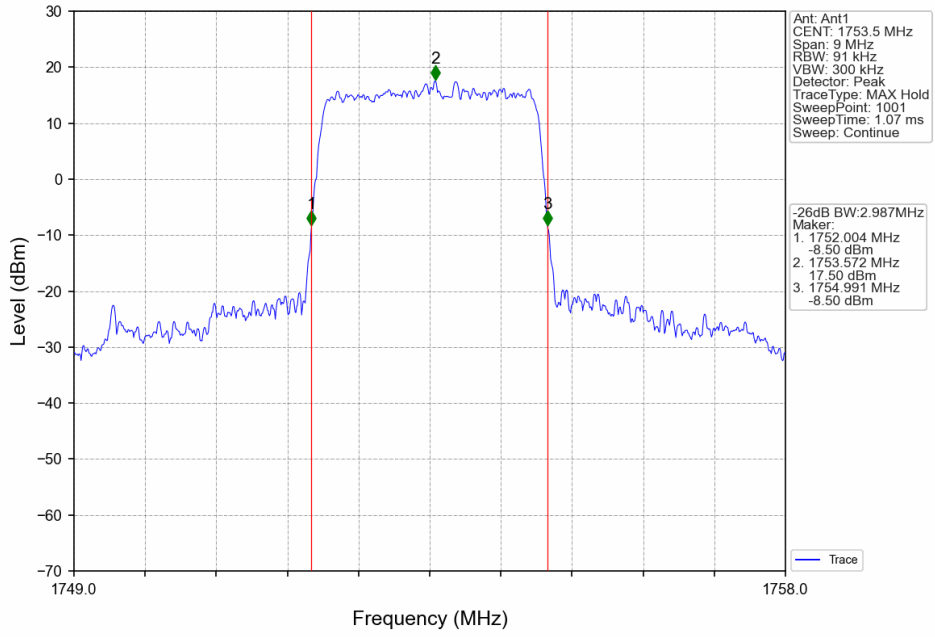
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



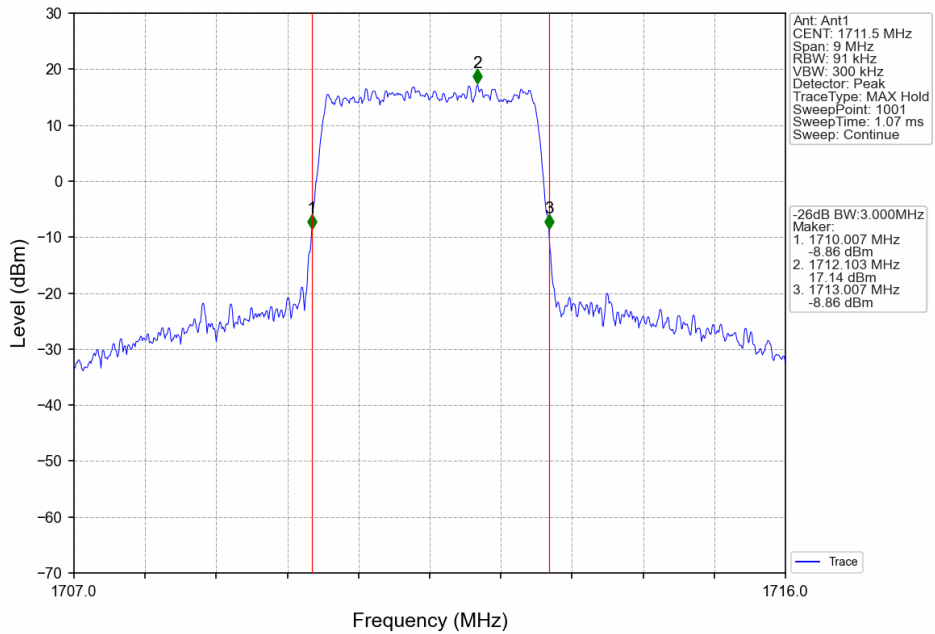
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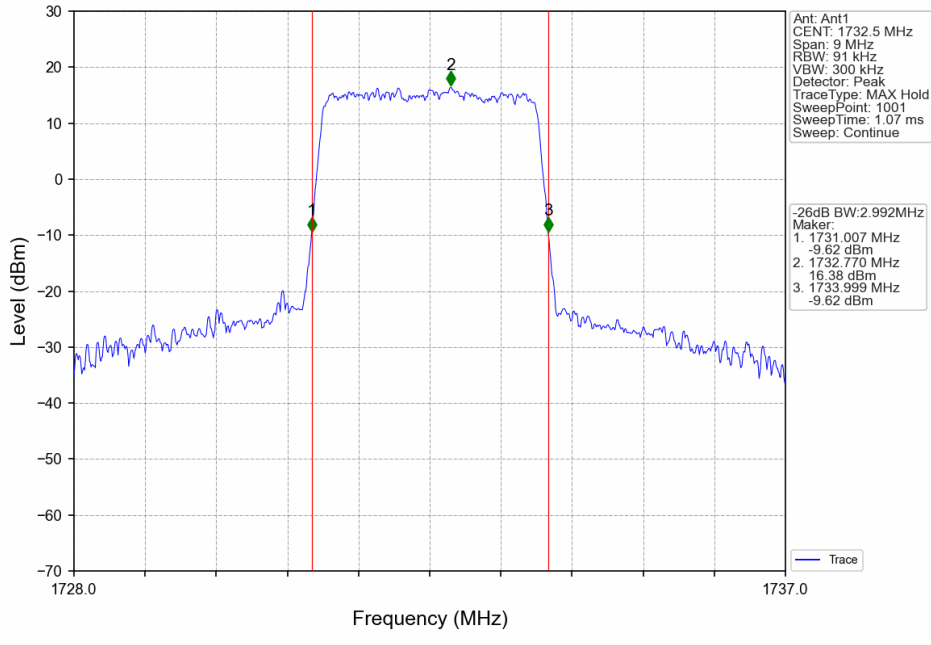
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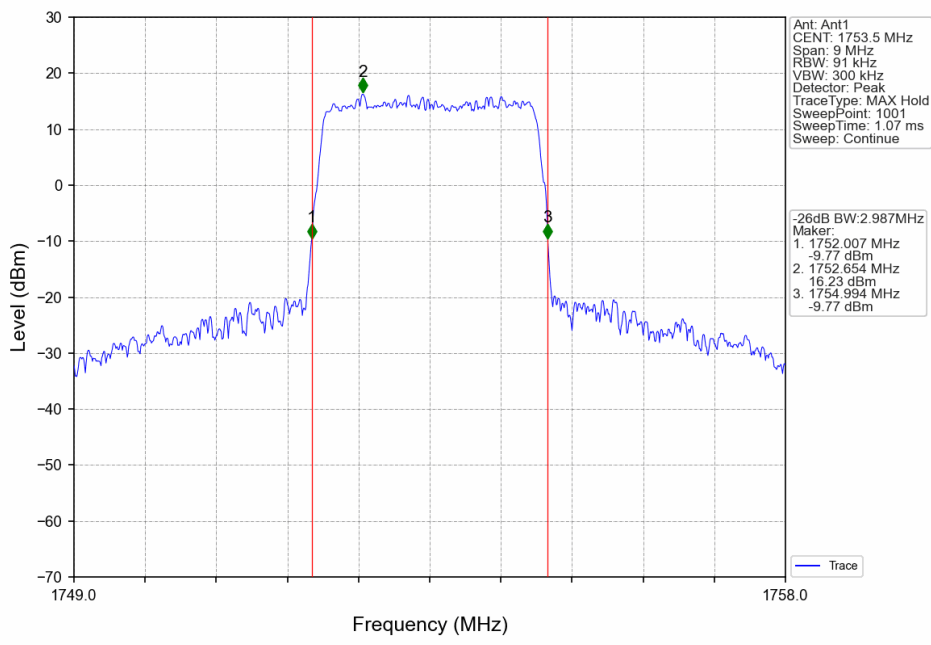
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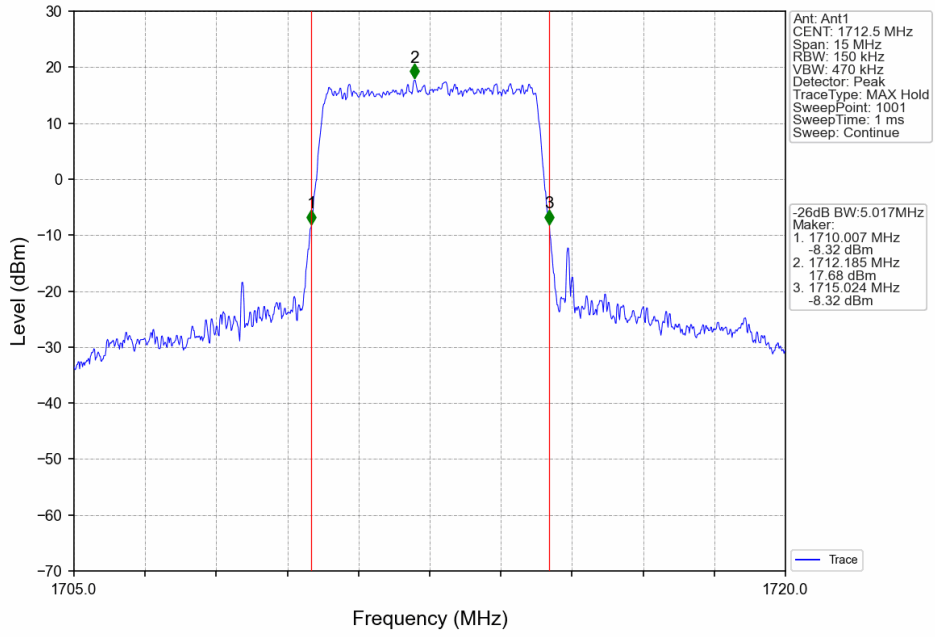
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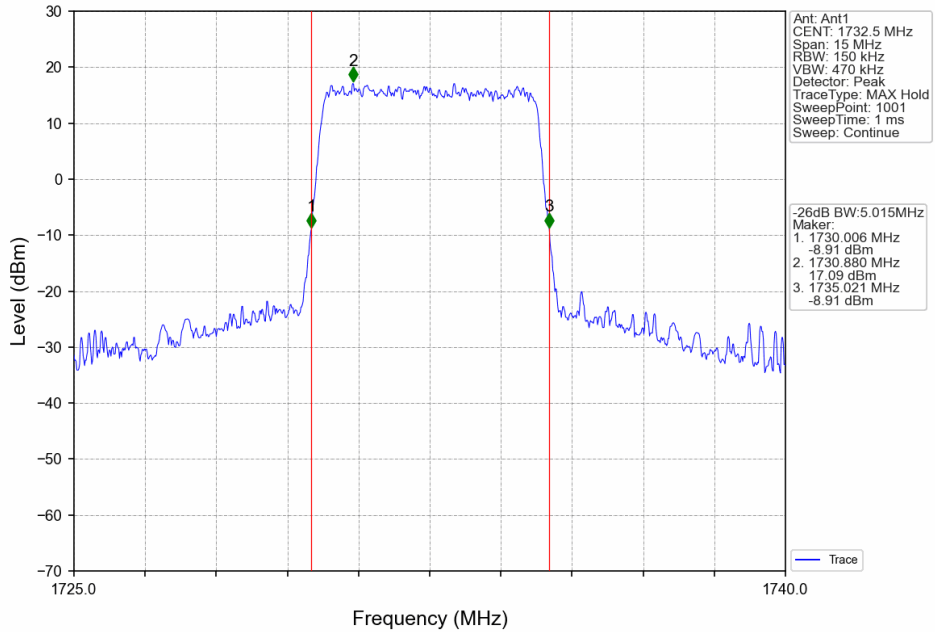
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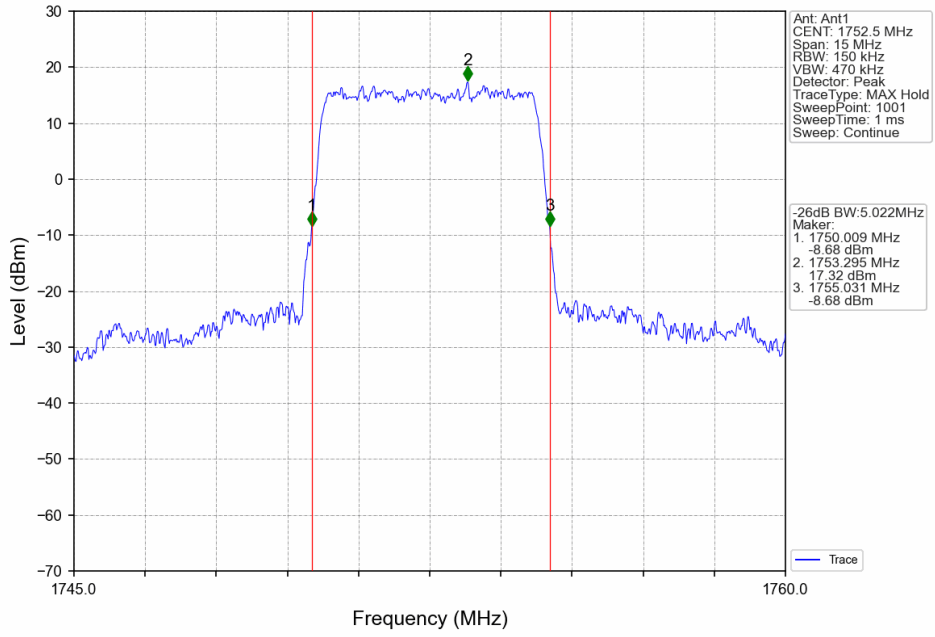
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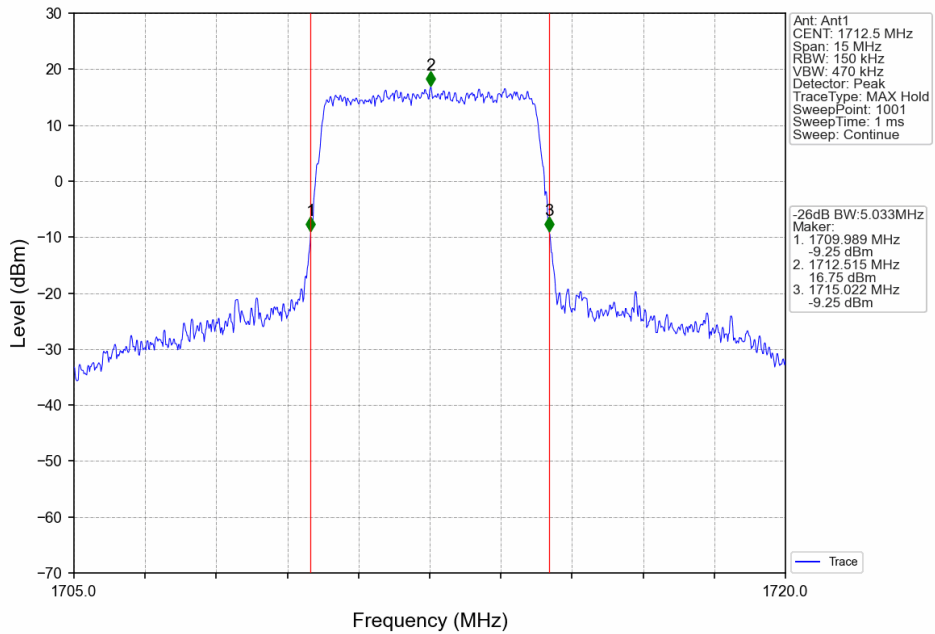
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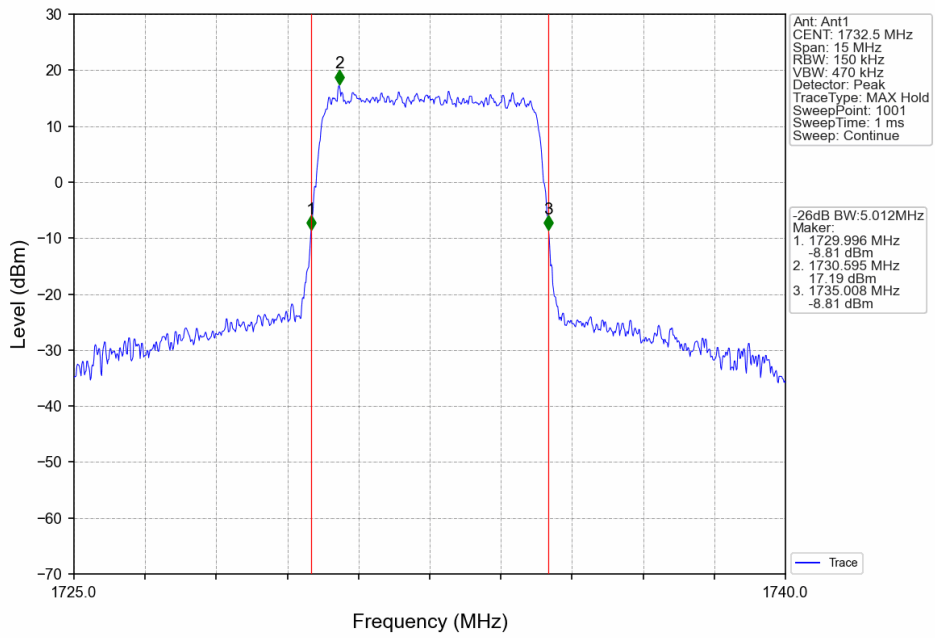
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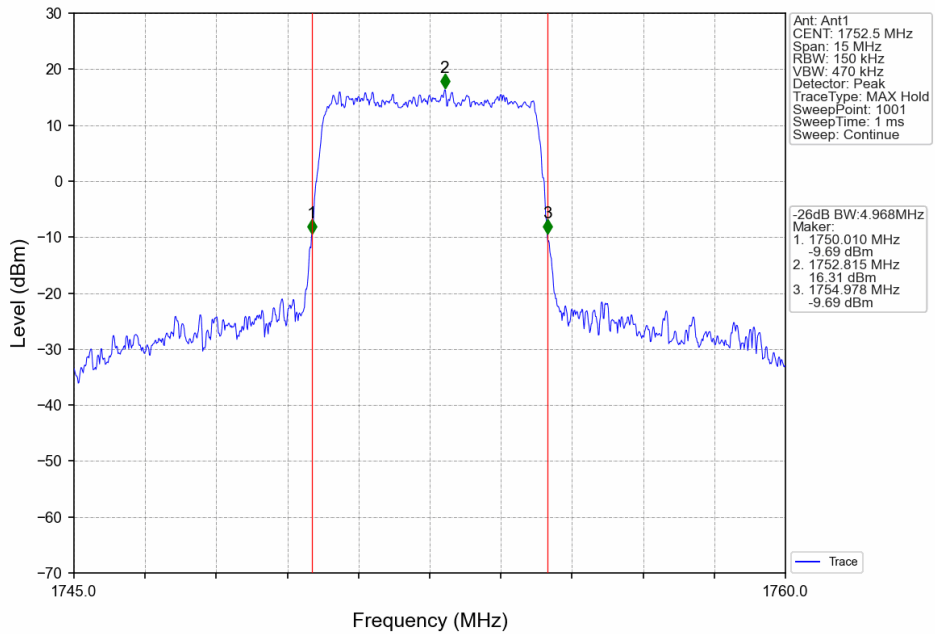
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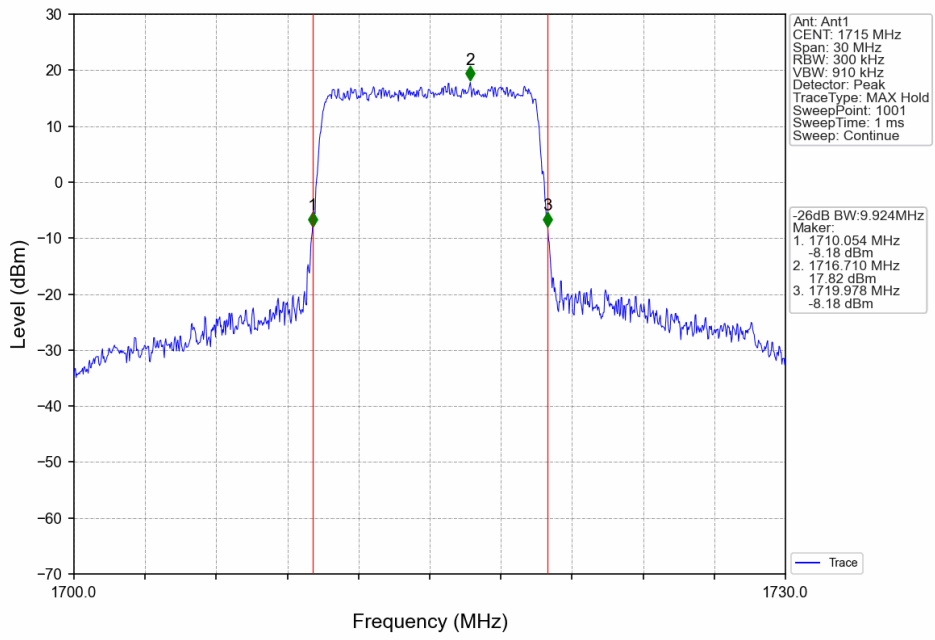
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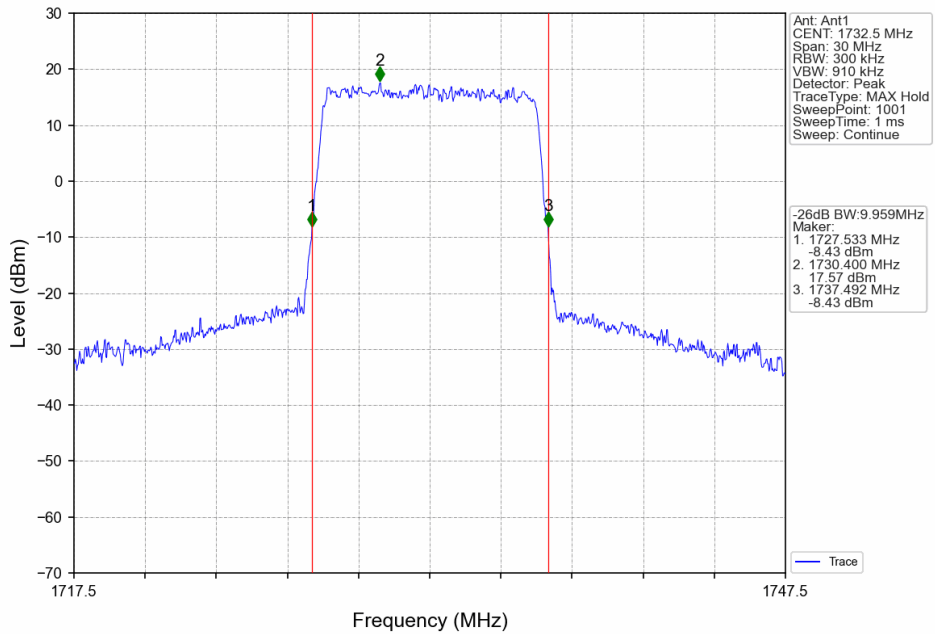
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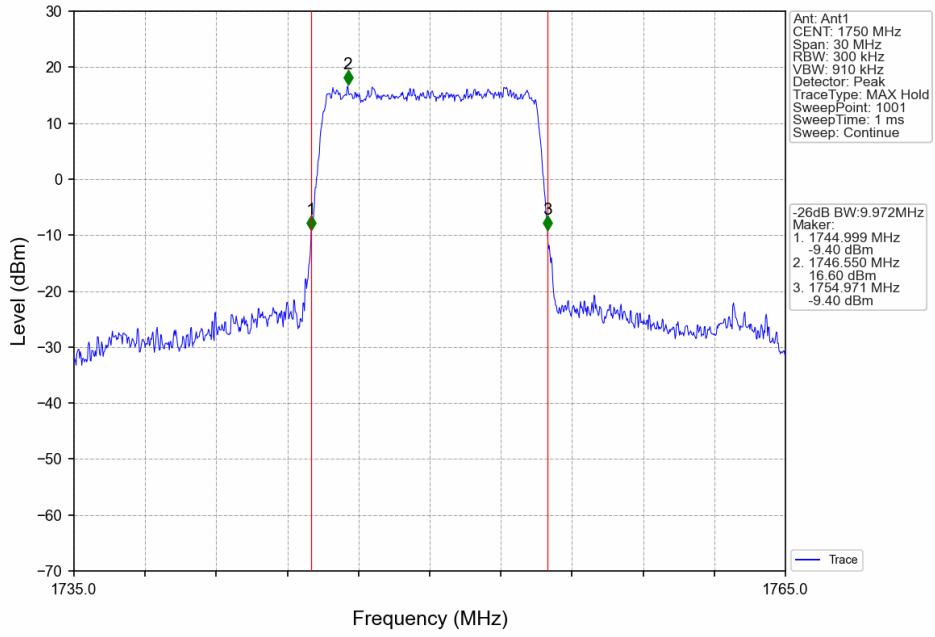
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



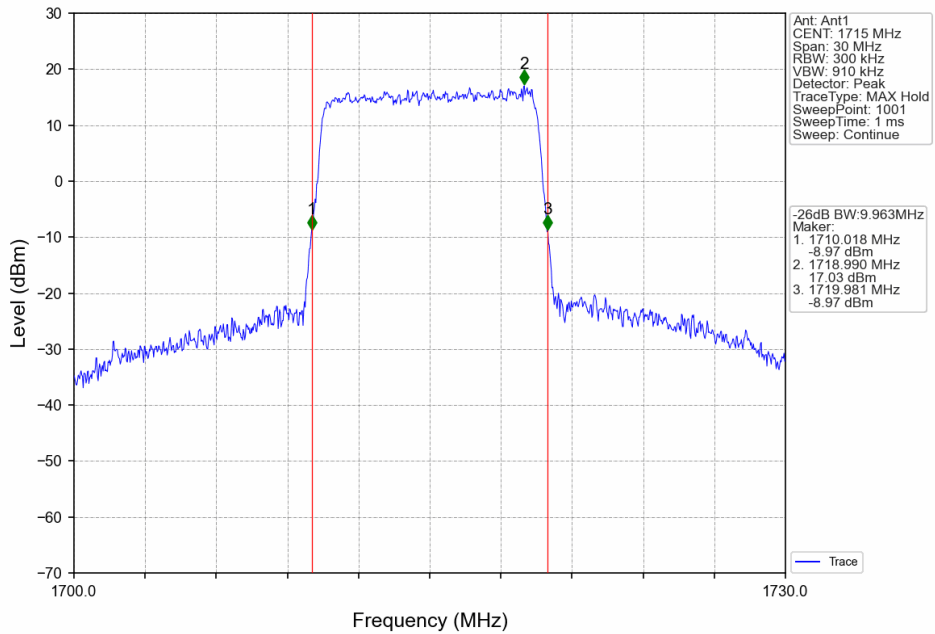
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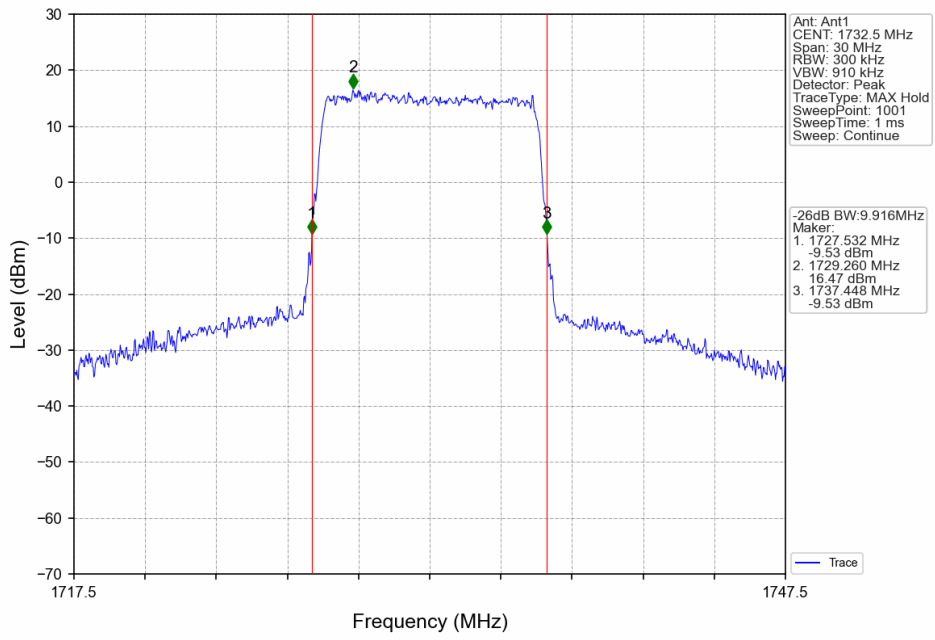
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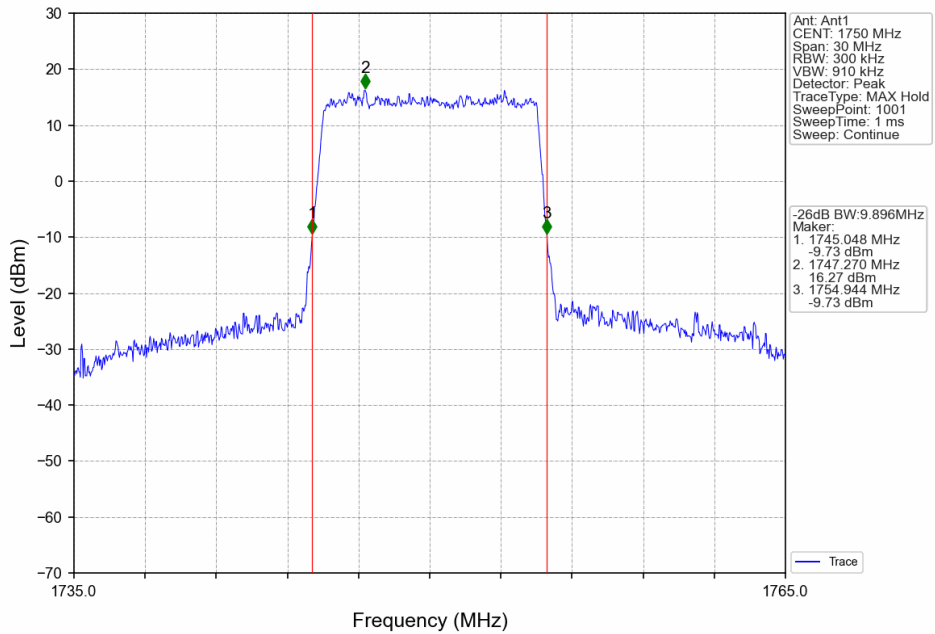
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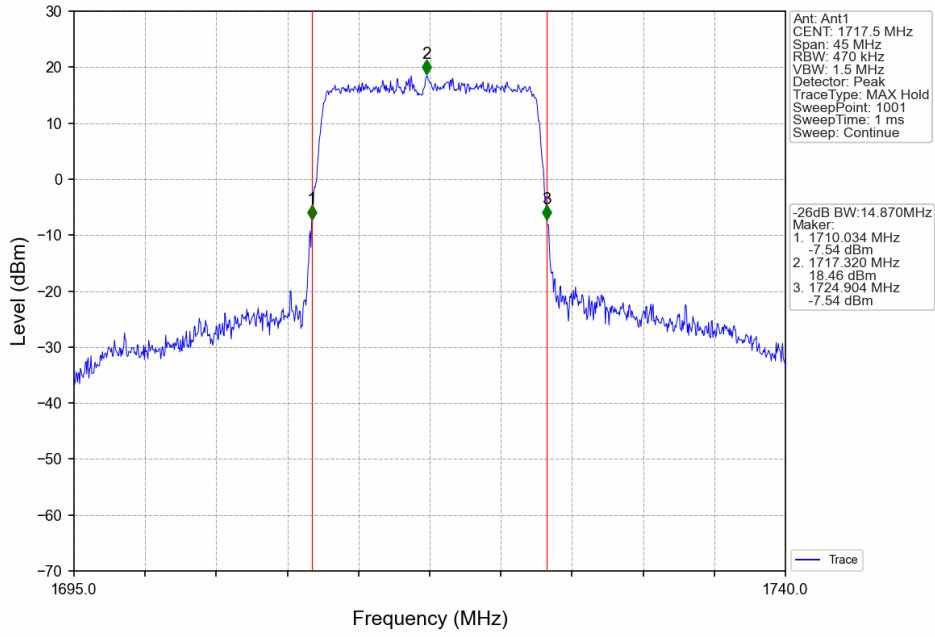
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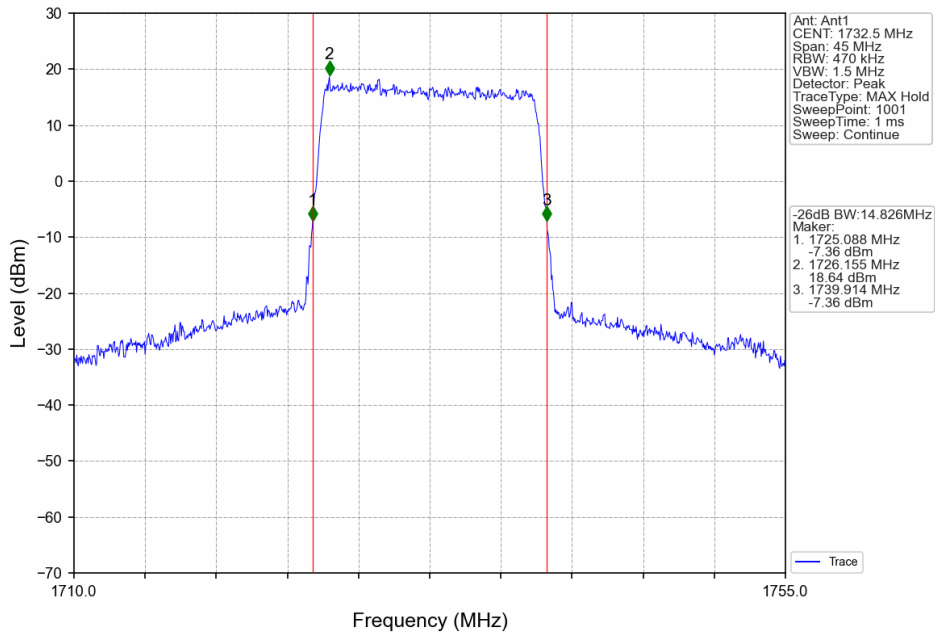
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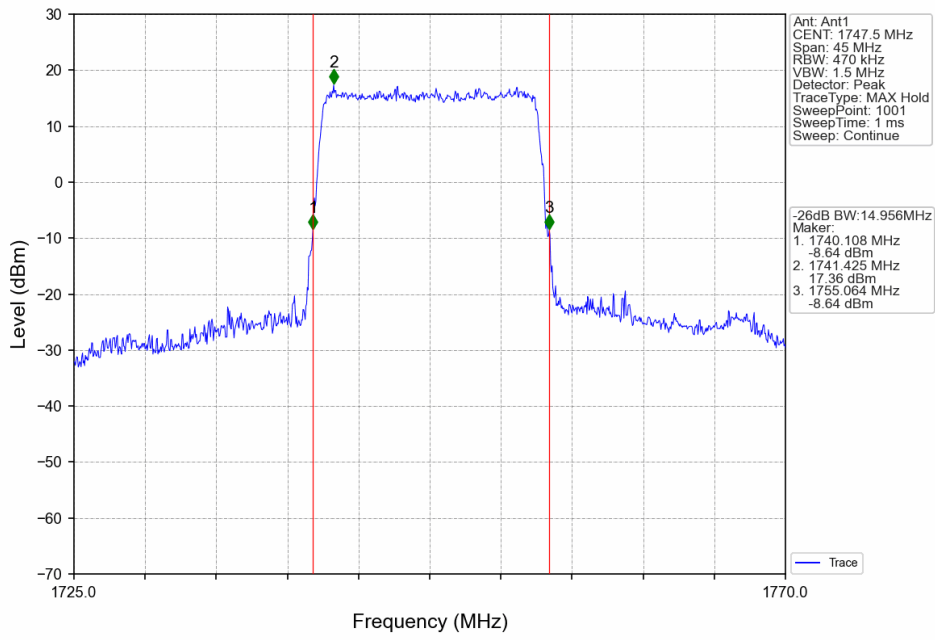
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



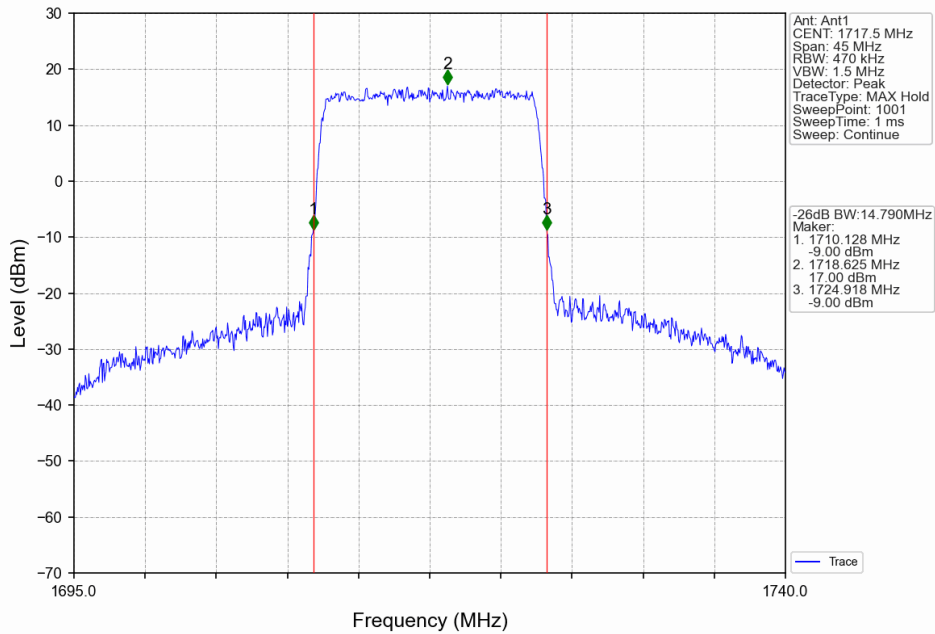
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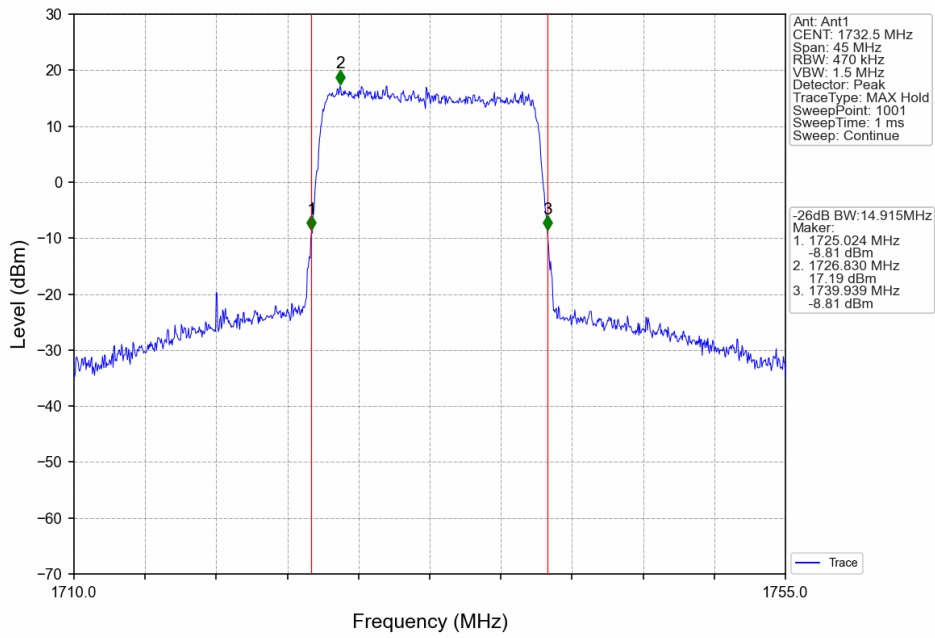
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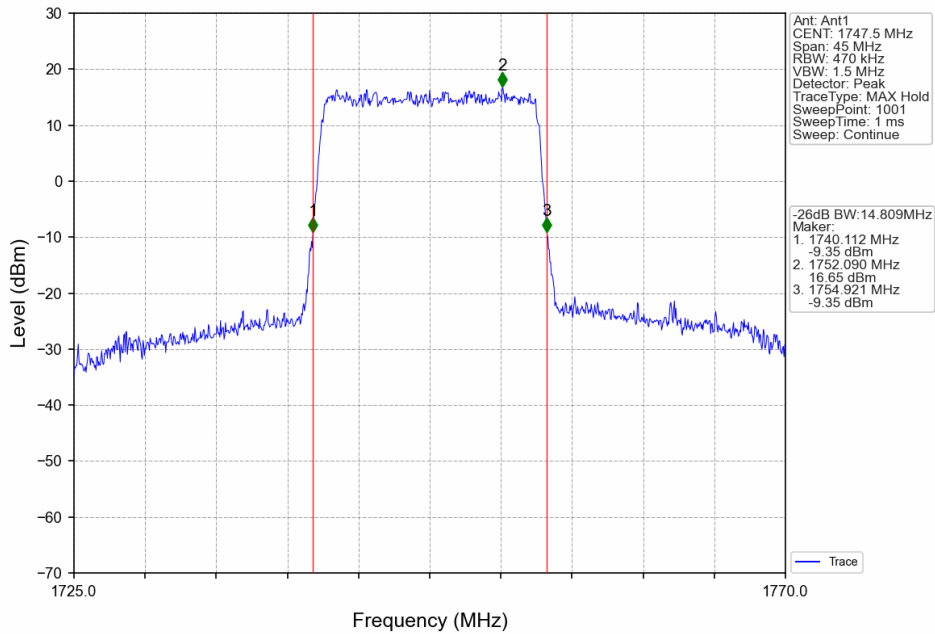
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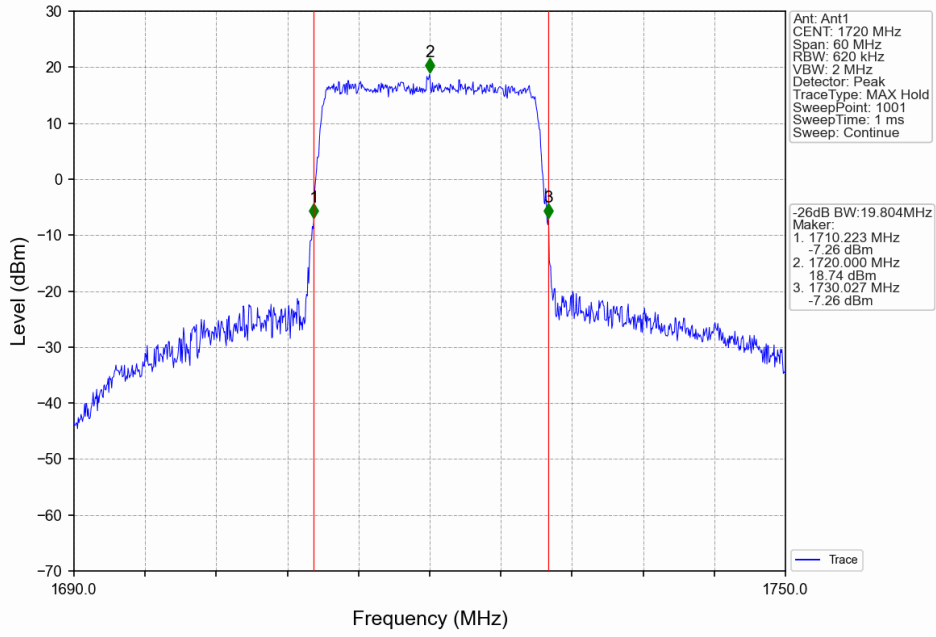
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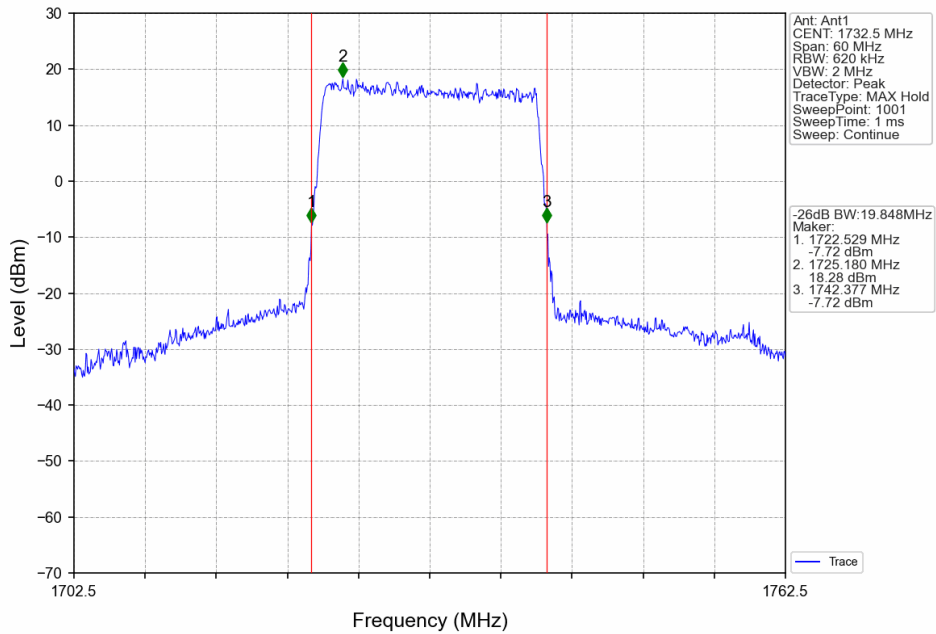
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



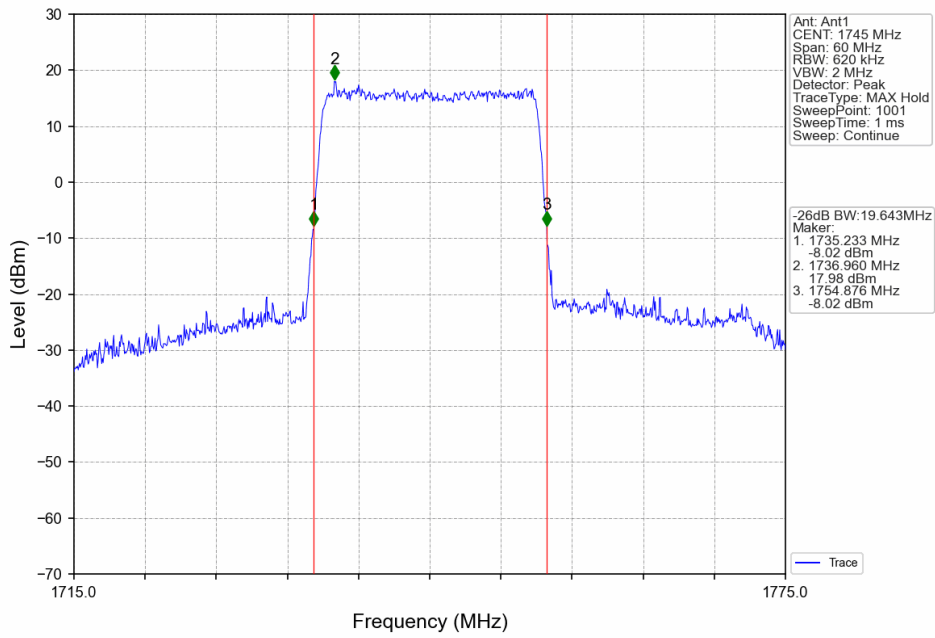
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV

