

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	22.91	0.44	23.35	<=30	Pass		
			2	22.98	0.44	23.42	<=30	Pass		
			5	22.88	0.44	23.32	<=30	Pass		
		3	0	23.01	0.44	23.45	<=30	Pass		
			2	23.06	0.44	23.50	<=30	Pass		
			3	23.03	0.44	23.47	<=30	Pass		
		6	0	21.93	0.44	22.37	<=30	Pass		
		1732.5	1	0	22.65	0.44	23.09	<=30	Pass	
				2	22.81	0.44	23.25	<=30	Pass	
	5			22.67	0.44	23.11	<=30	Pass		
	3		0	22.80	0.44	23.24	<=30	Pass		
			2	22.80	0.44	23.24	<=30	Pass		
			3	22.86	0.44	23.30	<=30	Pass		
	6		0	21.64	0.44	22.08	<=30	Pass		
	1754.3		1	0	22.15	0.44	22.59	<=30	Pass	
				2	22.29	0.44	22.73	<=30	Pass	
		5		22.13	0.44	22.57	<=30	Pass		
		3	0	22.34	0.44	22.78	<=30	Pass		
			2	22.35	0.44	22.79	<=30	Pass		
			3	22.33	0.44	22.77	<=30	Pass		
		6	0	21.29	0.44	21.73	<=30	Pass		
		16QAM	1710.7	1	0	21.86	0.44	22.30	<=30	Pass
					2	21.95	0.44	22.39	<=30	Pass
	5				21.84	0.44	22.28	<=30	Pass	
3	0			22.14	0.44	22.58	<=30	Pass		
	2			22.20	0.44	22.64	<=30	Pass		
	3			22.18	0.44	22.62	<=30	Pass		
6	0			20.96	0.44	21.40	<=30	Pass		
1732.5	1			0	21.66	0.44	22.10	<=30	Pass	
				2	21.75	0.44	22.19	<=30	Pass	
			5	21.73	0.44	22.17	<=30	Pass		
	3		0	21.87	0.44	22.31	<=30	Pass		
			2	21.83	0.44	22.27	<=30	Pass		
			3	21.82	0.44	22.26	<=30	Pass		
	6		0	20.64	0.44	21.08	<=30	Pass		
	1754.3		1	0	21.37	0.44	21.81	<=30	Pass	
				2	21.53	0.44	21.97	<=30	Pass	
5				21.38	0.44	21.82	<=30	Pass		
3			0	21.32	0.44	21.76	<=30	Pass		
			2	21.34	0.44	21.78	<=30	Pass		
			3	21.36	0.44	21.80	<=30	Pass		
6			0	20.35	0.44	20.79	<=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	23.06	0.44	23.50	<=30	Pass		
			7	23.22	0.44	23.66	<=30	Pass		
			14	23.07	0.44	23.51	<=30	Pass		
		8	0	22.01	0.44	22.45	<=30	Pass		
			4	22.04	0.44	22.48	<=30	Pass		
			7	21.99	0.44	22.43	<=30	Pass		
		15	0	21.99	0.44	22.43	<=30	Pass		
		1732.5	1	0	22.72	0.44	23.16	<=30	Pass	
				7	22.86	0.44	23.30	<=30	Pass	
	14			22.70	0.44	23.14	<=30	Pass		
	8		0	21.77	0.44	22.21	<=30	Pass		
			4	21.73	0.44	22.17	<=30	Pass		
			7	21.69	0.44	22.13	<=30	Pass		
	15		0	21.73	0.44	22.17	<=30	Pass		
	1753.5		1	0	22.34	0.44	22.78	<=30	Pass	
				7	22.40	0.44	22.84	<=30	Pass	
		14		22.21	0.44	22.65	<=30	Pass		
		8	0	21.35	0.44	21.79	<=30	Pass		
			4	21.36	0.44	21.80	<=30	Pass		
			7	21.33	0.44	21.77	<=30	Pass		
		15	0	21.34	0.44	21.78	<=30	Pass		
		16QAM	1711.5	1	0	22.00	0.44	22.44	<=30	Pass
					7	22.19	0.44	22.63	<=30	Pass
	14				21.98	0.44	22.42	<=30	Pass	
8	0			21.10	0.44	21.54	<=30	Pass		
	4			21.16	0.44	21.60	<=30	Pass		
	7			21.12	0.44	21.56	<=30	Pass		
15	0			21.10	0.44	21.54	<=30	Pass		
1732.5	1			0	21.93	0.44	22.37	<=30	Pass	
				7	22.00	0.44	22.44	<=30	Pass	
			14	21.91	0.44	22.35	<=30	Pass		
	8		0	20.76	0.44	21.20	<=30	Pass		
			4	20.79	0.44	21.23	<=30	Pass		
			7	20.72	0.44	21.16	<=30	Pass		
	15		0	20.78	0.44	21.22	<=30	Pass		
	1753.5		1	0	21.96	0.44	22.40	<=30	Pass	
				7	21.99	0.44	22.43	<=30	Pass	
14				21.84	0.44	22.28	<=30	Pass		
8			0	20.55	0.44	20.99	<=30	Pass		
			4	20.62	0.44	21.06	<=30	Pass		
			7	20.54	0.44	20.98	<=30	Pass		
15			0	20.45	0.44	20.89	<=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	22.86	0.44	23.30	<=30	Pass		
			13	23.01	0.44	23.45	<=30	Pass		
			24	22.86	0.44	23.30	<=30	Pass		
		12	0	21.87	0.44	22.31	<=30	Pass		
			6	21.95	0.44	22.39	<=30	Pass		
			13	21.94	0.44	22.38	<=30	Pass		
		25	0	21.91	0.44	22.35	<=30	Pass		
		1732.5	1	0	22.66	0.44	23.10	<=30	Pass	
				13	22.69	0.44	23.13	<=30	Pass	
	24			22.60	0.44	23.04	<=30	Pass		
	12		0	21.65	0.44	22.09	<=30	Pass		
			6	21.73	0.44	22.17	<=30	Pass		
			13	21.63	0.44	22.07	<=30	Pass		
	25		0	21.69	0.44	22.13	<=30	Pass		
	1752.5		1	0	22.21	0.44	22.65	<=30	Pass	
				13	22.32	0.44	22.76	<=30	Pass	
		24		22.09	0.44	22.53	<=30	Pass		
		12	0	21.29	0.44	21.73	<=30	Pass		
			6	21.35	0.44	21.79	<=30	Pass		
			13	21.30	0.44	21.74	<=30	Pass		
		25	0	21.28	0.44	21.72	<=30	Pass		
		16QAM	1712.5	1	0	21.93	0.44	22.37	<=30	Pass
					13	22.04	0.44	22.48	<=30	Pass
	24				21.90	0.44	22.34	<=30	Pass	
12	0			20.91	0.44	21.35	<=30	Pass		
	6			20.97	0.44	21.41	<=30	Pass		
	13			20.93	0.44	21.37	<=30	Pass		
25	0			20.99	0.44	21.43	<=30	Pass		
1732.5	1			0	21.88	0.44	22.32	<=30	Pass	
				13	22.04	0.44	22.48	<=30	Pass	
			24	21.89	0.44	22.33	<=30	Pass		
	12		0	20.77	0.44	21.21	<=30	Pass		
			6	20.77	0.44	21.21	<=30	Pass		
			13	20.71	0.44	21.15	<=30	Pass		
	25		0	20.75	0.44	21.19	<=30	Pass		
	1752.5		1	0	21.17	0.44	21.61	<=30	Pass	
				13	21.22	0.44	21.66	<=30	Pass	
24				21.02	0.44	21.46	<=30	Pass		
12			0	20.31	0.44	20.75	<=30	Pass		
			6	20.35	0.44	20.79	<=30	Pass		
			13	20.28	0.44	20.72	<=30	Pass		
25			0	20.36	0.44	20.80	<=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	22.94	0.44	23.38	<=30	Pass
			25	23.17	0.44	23.61	<=30	Pass

		25	49	22.90	0.44	23.34	<=30	Pass		
			0	21.94	0.44	22.38	<=30	Pass		
			13	21.98	0.44	22.42	<=30	Pass		
			25	21.98	0.44	22.42	<=30	Pass		
			50	21.96	0.44	22.40	<=30	Pass		
	1732.5	1	0	22.68	0.44	23.12	<=30	Pass		
				25	22.84	0.44	23.28	<=30	Pass	
				49	22.60	0.44	23.04	<=30	Pass	
		25	0	21.83	0.44	22.27	<=30	Pass		
				13	21.76	0.44	22.20	<=30	Pass	
				25	21.72	0.44	22.16	<=30	Pass	
		50	21.78	0.44	22.22	<=30	Pass			
		1750	1	0	22.35	0.44	22.79	<=30	Pass	
					25	22.50	0.44	22.94	<=30	Pass
	49				22.14	0.44	22.58	<=30	Pass	
	25		0	21.47	0.44	21.91	<=30	Pass		
				13	21.43	0.44	21.87	<=30	Pass	
				25	21.38	0.44	21.82	<=30	Pass	
	50		21.41	0.44	21.85	<=30	Pass			
	16QAM		1715	1	0	21.91	0.44	22.35	<=30	Pass
					25	22.10	0.44	22.54	<=30	Pass
		49			21.87	0.44	22.31	<=30	Pass	
		25		0	21.06	0.44	21.50	<=30	Pass	
					13	21.08	0.44	21.52	<=30	Pass
					25	21.11	0.44	21.55	<=30	Pass
		50		21.03	0.44	21.47	<=30	Pass		
		1732.5		1	0	21.84	0.44	22.28	<=30	Pass
25						22.02	0.44	22.46	<=30	Pass
49			21.83			0.44	22.27	<=30	Pass	
25			0	20.91	0.44	21.35	<=30	Pass		
				13	20.85	0.44	21.29	<=30	Pass	
				25	20.80	0.44	21.24	<=30	Pass	
50			20.83	0.44	21.27	<=30	Pass			
1750			1	0	22.04	0.44	22.48	<=30	Pass	
					25	22.10	0.44	22.54	<=30	Pass
		49			21.74	0.44	22.18	<=30	Pass	
		25	0	20.59	0.44	21.03	<=30	Pass		
				13	20.55	0.44	20.99	<=30	Pass	
				25	20.48	0.44	20.92	<=30	Pass	
		50	20.54	0.44	20.98	<=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	22.83	0.44	23.27	<=30	Pass
			38	22.92	0.44	23.36	<=30	Pass
			74	22.61	0.44	23.05	<=30	Pass
		36	0	21.92	0.44	22.36	<=30	Pass
			18	21.95	0.44	22.39	<=30	Pass
			39	21.81	0.44	22.25	<=30	Pass

16QAM	1732.5	75	0	21.89	0.44	22.33	<=30	Pass		
		1	0	22.57	0.44	23.01	<=30	Pass		
			38	22.69	0.44	23.13	<=30	Pass		
			74	22.42	0.44	22.86	<=30	Pass		
			0	21.72	0.44	22.16	<=30	Pass		
		36	18	21.68	0.44	22.12	<=30	Pass		
			39	21.56	0.44	22.00	<=30	Pass		
			75	0	21.66	0.44	22.10	<=30	Pass	
		1747.5	1	0	22.36	0.44	22.80	<=30	Pass	
				38	22.29	0.44	22.73	<=30	Pass	
				74	22.04	0.44	22.48	<=30	Pass	
				0	21.46	0.44	21.90	<=30	Pass	
	36		18	21.43	0.44	21.87	<=30	Pass		
			39	21.36	0.44	21.80	<=30	Pass		
			75	0	21.37	0.44	21.81	<=30	Pass	
	16QAM		1717.5	1	0	22.12	0.44	22.56	<=30	Pass
					38	22.28	0.44	22.72	<=30	Pass
					74	22.02	0.44	22.46	<=30	Pass
					0	20.90	0.44	21.34	<=30	Pass
				36	18	20.91	0.44	21.35	<=30	Pass
		39			20.82	0.44	21.26	<=30	Pass	
		75			0	20.89	0.44	21.33	<=30	Pass
		1732.5		1	0	21.71	0.44	22.15	<=30	Pass
					38	21.86	0.44	22.30	<=30	Pass
74					21.56	0.44	22.00	<=30	Pass	
0					20.76	0.44	21.20	<=30	Pass	
36				18	20.74	0.44	21.18	<=30	Pass	
			39	20.60	0.44	21.04	<=30	Pass		
			75	0	20.69	0.44	21.13	<=30	Pass	
1747.5			1	0	22.00	0.44	22.44	<=30	Pass	
				38	22.02	0.44	22.46	<=30	Pass	
				74	21.62	0.44	22.06	<=30	Pass	
				0	20.51	0.44	20.95	<=30	Pass	
			36	18	20.53	0.44	20.97	<=30	Pass	
		39		20.41	0.44	20.85	<=30	Pass		
		75		0	20.45	0.44	20.89	<=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	22.62	0.44	23.06	<=30	Pass
			50	23.02	0.44	23.46	<=30	Pass
			99	22.40	0.44	22.84	<=30	Pass
		50	0	21.85	0.44	22.29	<=30	Pass
			25	21.90	0.44	22.34	<=30	Pass
			50	21.73	0.44	22.17	<=30	Pass
	100	0	21.79	0.44	22.23	<=30	Pass	
	1732.5	1	0	22.52	0.44	22.96	<=30	Pass
			50	22.85	0.44	23.29	<=30	Pass
			99	22.35	0.44	22.79	<=30	Pass

	1745	50	0	21.80	0.44	22.24	<=30	Pass		
			25	21.71	0.44	22.15	<=30	Pass		
			50	21.58	0.44	22.02	<=30	Pass		
		100	0	21.71	0.44	22.15	<=30	Pass		
			1	0	22.33	0.44	22.77	<=30	Pass	
				50	22.55	0.44	22.99	<=30	Pass	
	99	21.94		0.44	22.38	<=30	Pass			
	1745	50	0	21.57	0.44	22.01	<=30	Pass		
			25	21.52	0.44	21.96	<=30	Pass		
			50	21.42	0.44	21.86	<=30	Pass		
		100	0	21.50	0.44	21.94	<=30	Pass		
			1720	1	0	22.15	0.44	22.59	<=30	Pass
					50	22.50	0.44	22.94	<=30	Pass
	99	21.97			0.44	22.41	<=30	Pass		
	1720	50	0	20.94	0.44	21.38	<=30	Pass		
25			20.89	0.44	21.33	<=30	Pass			
50			20.76	0.44	21.20	<=30	Pass			
100		0	20.82	0.44	21.26	<=30	Pass			
		1732.5	1	0	21.68	0.44	22.12	<=30	Pass	
				50	22.05	0.44	22.49	<=30	Pass	
99	21.52			0.44	21.96	<=30	Pass			
1732.5	50	0	20.90	0.44	21.34	<=30	Pass			
		25	20.79	0.44	21.23	<=30	Pass			
		50	20.62	0.44	21.06	<=30	Pass			
	100	0	20.79	0.44	21.23	<=30	Pass			
		1745	1	0	21.62	0.44	22.06	<=30	Pass	
				50	21.88	0.44	22.32	<=30	Pass	
99	21.26			0.44	21.70	<=30	Pass			
1745	50	0	20.67	0.44	21.11	<=30	Pass			
		25	20.57	0.44	21.01	<=30	Pass			
		50	20.48	0.44	20.92	<=30	Pass			
	100	0	20.57	0.44	21.01	<=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	-1.330	-0.0008	-2.5 to 2.5	Pass	
					3.85	1.531	0.0009	-2.5 to 2.5	Pass	
					4.43	-7.424	-0.0043	-2.5 to 2.5	Pass	
				-30	3.85	-9.313	-0.0054	-2.5 to 2.5	Pass	
					-20	3.85	-8.998	-0.0053	-2.5 to 2.5	Pass
						-10	3.85	-9.227	-0.0054	-2.5 to 2.5
				0	3.85	-0.787	-0.0005	-2.5 to 2.5	Pass	
					10	3.85	-7.339	-0.0043	-2.5 to 2.5	Pass
					30	3.85	-6.051	-0.0035	-2.5 to 2.5	Pass
					40	3.85	-10.071	-0.0059	-2.5 to 2.5	Pass
					50	3.85	-8.540	-0.0050	-2.5 to 2.5	Pass

	1732.5	6	0	20	3.27	-6.766	-0.0039	-2.5 to 2.5	Pass	
					3.85	-8.998	-0.0052	-2.5 to 2.5	Pass	
					4.43	20.385	0.0118	-2.5 to 2.5	Pass	
				-30	3.85	-1.216	-0.0007	-2.5 to 2.5	Pass	
					-20	3.85	-7.653	-0.0044	-2.5 to 2.5	Pass
						3.85	-7.267	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-7.510	-0.0043	-2.5 to 2.5	Pass	
					10	3.85	-4.735	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-4.406	-0.0025	-2.5 to 2.5	Pass	
	40	3.85	2.646	0.0015	-2.5 to 2.5	Pass				
	50	3.85	-4.964	-0.0029	-2.5 to 2.5	Pass				
	1754.3	6	0	20	3.27	-4.163	-0.0024	-2.5 to 2.5	Pass	
					3.85	-8.082	-0.0046	-2.5 to 2.5	Pass	
					4.43	-3.276	-0.0019	-2.5 to 2.5	Pass	
				-30	3.85	-7.739	-0.0044	-2.5 to 2.5	Pass	
					-20	3.85	-8.826	-0.0050	-2.5 to 2.5	Pass
						3.85	-10.271	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass	
10					3.85	-4.334	-0.0025	-2.5 to 2.5	Pass	
30				3.85	-4.449	-0.0025	-2.5 to 2.5	Pass		
40	3.85	-2.933	-0.0017	-2.5 to 2.5	Pass					
50	3.85	-6.580	-0.0038	-2.5 to 2.5	Pass					
16QAM	1710.7	6	0	20	3.27	-7.911	-0.0046	-2.5 to 2.5	Pass	
					3.85	-6.309	-0.0037	-2.5 to 2.5	Pass	
					4.43	-11.301	-0.0066	-2.5 to 2.5	Pass	
				-30	3.85	10.486	0.0061	-2.5 to 2.5	Pass	
					-20	3.85	-1.388	-0.0008	-2.5 to 2.5	Pass
						3.85	-3.791	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-4.864	-0.0028	-2.5 to 2.5	Pass	
					10	3.85	-4.449	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-4.849	-0.0028	-2.5 to 2.5	Pass	
	40	3.85	-6.337	-0.0037	-2.5 to 2.5	Pass				
	50	3.85	-7.911	-0.0046	-2.5 to 2.5	Pass				
	1732.5	6	0	20	3.27	-5.164	-0.0030	-2.5 to 2.5	Pass	
					3.85	-6.738	-0.0039	-2.5 to 2.5	Pass	
					4.43	-5.035	-0.0029	-2.5 to 2.5	Pass	
				-30	3.85	-3.948	-0.0023	-2.5 to 2.5	Pass	
					-20	3.85	-2.975	-0.0017	-2.5 to 2.5	Pass
						3.85	-5.994	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-7.710	-0.0045	-2.5 to 2.5	Pass	
10					3.85	-7.153	-0.0041	-2.5 to 2.5	Pass	
30				3.85	-6.394	-0.0037	-2.5 to 2.5	Pass		
40	3.85	24.834	0.0143	-2.5 to 2.5	Pass					
50	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass					
1754.3	6	0	20	3.27	-5.264	-0.0030	-2.5 to 2.5	Pass		
				3.85	-9.842	-0.0056	-2.5 to 2.5	Pass		
				4.43	-4.592	-0.0026	-2.5 to 2.5	Pass		
			-30	3.85	-6.480	-0.0037	-2.5 to 2.5	Pass		
				-20	3.85	-11.001	-0.0063	-2.5 to 2.5	Pass	
					3.85	-6.652	-0.0038	-2.5 to 2.5	Pass	
			0	3.85	-9.713	-0.0055	-2.5 to 2.5	Pass		
				10	3.85	-3.691	-0.0021	-2.5 to 2.5	Pass	
			30	3.85	-8.669	-0.0049	-2.5 to 2.5	Pass		
40	3.85	-4.206	-0.0024	-2.5 to 2.5	Pass					
50	3.85	-4.435	-0.0025	-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	-2.060	-0.0012	-2.5 to 2.5	Pass
					3.85	-6.652	-0.0039	-2.5 to 2.5	Pass
					4.43	-2.532	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-5.279	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-2.961	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-2.761	-0.0016	-2.5 to 2.5	Pass
				0	3.85	1.688	0.0010	-2.5 to 2.5	Pass
				10	3.85	-2.675	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-4.077	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-3.018	-0.0018	-2.5 to 2.5	Pass
	50	3.85	-3.748	-0.0022	-2.5 to 2.5	Pass			
	1732.5	15	0	20	3.27	-3.276	-0.0019	-2.5 to 2.5	Pass
					3.85	-6.294	-0.0036	-2.5 to 2.5	Pass
					4.43	1.287	0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.858	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-11.487	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-2.761	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-4.606	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-9.656	-0.0056	-2.5 to 2.5	Pass
				30	3.85	-3.018	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-3.033	-0.0018	-2.5 to 2.5	Pass
	50	3.85	-2.160	-0.0012	-2.5 to 2.5	Pass			
	1753.5	15	0	20	3.27	-3.963	-0.0023	-2.5 to 2.5	Pass
					3.85	-9.170	-0.0052	-2.5 to 2.5	Pass
					4.43	-5.021	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	-6.595	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	1.230	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-2.489	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-10.614	-0.0061	-2.5 to 2.5	Pass
				10	3.85	0.329	0.0002	-2.5 to 2.5	Pass
30				3.85	0.901	0.0005	-2.5 to 2.5	Pass	
40				3.85	-5.436	-0.0031	-2.5 to 2.5	Pass	
50	3.85	-9.670	-0.0055	-2.5 to 2.5	Pass				
16QAM	1711.5	15	0	20	3.27	-3.462	-0.0020	-2.5 to 2.5	Pass
					3.85	-5.364	-0.0031	-2.5 to 2.5	Pass
					4.43	-6.166	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-1.230	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-1.531	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-2.761	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-2.403	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-2.332	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-4.363	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-4.363	-0.0025	-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	-8.197	-0.0047	-2.5 to 2.5	Pass
					3.85	-2.890	-0.0017	-2.5 to 2.5	Pass
					4.43	-3.719	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-5.622	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-5.908	-0.0034	-2.5 to 2.5	Pass

	1753.5	15	0	-10	3.85	0.973	0.0006	-2.5 to 2.5	Pass						
				0	3.85	-5.865	-0.0034	-2.5 to 2.5	Pass						
				10	3.85	-18.840	-0.0109	-2.5 to 2.5	Pass						
				30	3.85	12.860	0.0074	-2.5 to 2.5	Pass						
				40	3.85	10.400	0.0060	-2.5 to 2.5	Pass						
				50	3.85	0.901	0.0005	-2.5 to 2.5	Pass						
		1753.5	15	0	20	3.27	-3.662	-0.0021	-2.5 to 2.5	Pass					
						3.85	-3.548	-0.0020	-2.5 to 2.5	Pass					
						4.43	-4.950	-0.0028	-2.5 to 2.5	Pass					
										-30	3.85	-4.206	-0.0024	-2.5 to 2.5	Pass
										-20	3.85	0.415	0.0002	-2.5 to 2.5	Pass
										-10	3.85	0.787	0.0004	-2.5 to 2.5	Pass
										0	3.85	-8.812	-0.0050	-2.5 to 2.5	Pass
										10	3.85	0.429	0.0002	-2.5 to 2.5	Pass
										30	3.85	-5.379	-0.0031	-2.5 to 2.5	Pass
										40	3.85	-5.021	-0.0029	-2.5 to 2.5	Pass
										50	3.85	-7.396	-0.0042	-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	-0.730	-0.0004	-2.5 to 2.5	Pass						
					3.85	-8.326	-0.0049	-2.5 to 2.5	Pass						
					4.43	-2.217	-0.0013	-2.5 to 2.5	Pass						
									-30	3.85	-2.360	-0.0014	-2.5 to 2.5	Pass	
									-20	3.85	-4.435	-0.0026	-2.5 to 2.5	Pass	
									-10	3.85	-6.852	-0.0040	-2.5 to 2.5	Pass	
									0	3.85	4.792	0.0028	-2.5 to 2.5	Pass	
									10	3.85	0.501	0.0003	-2.5 to 2.5	Pass	
									30	3.85	-1.202	-0.0007	-2.5 to 2.5	Pass	
									40	3.85	-7.896	-0.0046	-2.5 to 2.5	Pass	
									50	3.85	-0.887	-0.0005	-2.5 to 2.5	Pass	
		1732.5	25	0	20	3.27	-3.462	-0.0020	-2.5 to 2.5	Pass					
						3.85	-9.542	-0.0055	-2.5 to 2.5	Pass					
						4.43	0.901	0.0005	-2.5 to 2.5	Pass					
										-30	3.85	-5.450	-0.0031	-2.5 to 2.5	Pass
										-20	3.85	-5.550	-0.0032	-2.5 to 2.5	Pass
										-10	3.85	-6.251	-0.0036	-2.5 to 2.5	Pass
										0	3.85	-3.347	-0.0019	-2.5 to 2.5	Pass
										10	3.85	-2.446	-0.0014	-2.5 to 2.5	Pass
										30	3.85	-6.409	-0.0037	-2.5 to 2.5	Pass
										40	3.85	-6.180	-0.0036	-2.5 to 2.5	Pass
										50	3.85	4.492	0.0026	-2.5 to 2.5	Pass
		1752.5	25	0	20	3.27	-4.692	-0.0027	-2.5 to 2.5	Pass					
						3.85	-5.136	-0.0029	-2.5 to 2.5	Pass					
						4.43	-12.717	-0.0073	-2.5 to 2.5	Pass					
										-30	3.85	-3.219	-0.0018	-2.5 to 2.5	Pass
										-20	3.85	1.631	0.0009	-2.5 to 2.5	Pass
										-10	3.85	0.272	0.0002	-2.5 to 2.5	Pass
									0	3.85	-4.234	-0.0024	-2.5 to 2.5	Pass	
									10	3.85	-5.393	-0.0031	-2.5 to 2.5	Pass	

				30	3.85	-2.046	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-3.734	-0.0021	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	0.672	0.0004	-2.5 to 2.5	Pass
					3.85	-5.779	-0.0034	-2.5 to 2.5	Pass
					4.43	-7.424	-0.0043	-2.5 to 2.5	Pass
				-30	3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-4.849	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-5.293	-0.0031	-2.5 to 2.5	Pass
				0	3.85	-7.653	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-4.263	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-4.864	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-7.238	-0.0042	-2.5 to 2.5	Pass
	50	3.85	-6.137	-0.0036	-2.5 to 2.5	Pass			
	1732.5	25	0	20	3.27	-2.618	-0.0015	-2.5 to 2.5	Pass
					3.85	-6.623	-0.0038	-2.5 to 2.5	Pass
					4.43	-4.950	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	-3.519	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-11.058	-0.0064	-2.5 to 2.5	Pass
				0	3.85	-12.703	-0.0073	-2.5 to 2.5	Pass
				10	3.85	1.001	0.0006	-2.5 to 2.5	Pass
				30	3.85	-2.861	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-7.324	-0.0042	-2.5 to 2.5	Pass
	50	3.85	7.153	0.0041	-2.5 to 2.5	Pass			
	1752.5	25	0	20	3.27	-7.625	-0.0044	-2.5 to 2.5	Pass
					3.85	-2.432	-0.0014	-2.5 to 2.5	Pass
					4.43	-3.619	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-7.768	-0.0044	-2.5 to 2.5	Pass
				-10	3.85	-3.462	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-3.033	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-3.891	-0.0022	-2.5 to 2.5	Pass
30				3.85	-2.832	-0.0016	-2.5 to 2.5	Pass	
40				3.85	-2.017	-0.0012	-2.5 to 2.5	Pass	
50	3.85	-5.951	-0.0034	-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	0.916	0.0005	-2.5 to 2.5	Pass
					3.85	-3.505	-0.0020	-2.5 to 2.5	Pass
					4.43	-5.422	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-5.994	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-4.406	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-10.357	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-2.832	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-4.892	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-6.323	-0.0037	-2.5 to 2.5	Pass
50	3.85	-3.533	-0.0021	-2.5 to 2.5	Pass				

	1732.5	50	0	20	3.27	-5.736	-0.0033	-2.5 to 2.5	Pass							
					3.85	-1.402	-0.0008	-2.5 to 2.5	Pass							
					4.43	-1.903	-0.0011	-2.5 to 2.5	Pass							
								-30	3.85	-4.449	-0.0026	-2.5 to 2.5	Pass			
									-20	3.85	-3.462	-0.0020	-2.5 to 2.5	Pass		
										3.85	-5.994	-0.0035	-2.5 to 2.5	Pass		
								0	3.85	-3.219	-0.0019	-2.5 to 2.5	Pass			
									10	3.85	-4.864	-0.0028	-2.5 to 2.5	Pass		
								30	3.85	-4.377	-0.0025	-2.5 to 2.5	Pass			
	40	3.85	-5.221					-0.0030	-2.5 to 2.5	Pass						
	50	3.85	-3.877					-0.0022	-2.5 to 2.5	Pass						
	1750	50	0					20	3.27	-6.022	-0.0034	-2.5 to 2.5	Pass			
				3.85	-2.961	-0.0017	-2.5 to 2.5		Pass							
				4.43	-4.120	-0.0024	-2.5 to 2.5		Pass							
							-30	3.85	-0.615	-0.0004	-2.5 to 2.5	Pass				
								-20	3.85	-7.682	-0.0044	-2.5 to 2.5	Pass			
									3.85	-4.435	-0.0025	-2.5 to 2.5	Pass			
							0	3.85	-2.847	-0.0016	-2.5 to 2.5	Pass				
10								3.85	-3.390	-0.0019	-2.5 to 2.5	Pass				
30							3.85	-14.005	-0.0080	-2.5 to 2.5	Pass					
40	3.85	-4.449	-0.0025				-2.5 to 2.5	Pass								
50	3.85	-9.055	-0.0052				-2.5 to 2.5	Pass								
16QAM	1715	50	0				20	3.27	-2.146	-0.0013	-2.5 to 2.5	Pass				
				3.85	-7.467	-0.0044		-2.5 to 2.5	Pass							
				4.43	-3.977	-0.0023		-2.5 to 2.5	Pass							
							-30	3.85	-9.041	-0.0053	-2.5 to 2.5	Pass				
								-20	3.85	-6.452	-0.0038	-2.5 to 2.5	Pass			
									3.85	-2.789	-0.0016	-2.5 to 2.5	Pass			
							0	3.85	1.559	0.0009	-2.5 to 2.5	Pass				
								10	3.85	-5.207	-0.0030	-2.5 to 2.5	Pass			
							30	3.85	-2.847	-0.0017	-2.5 to 2.5	Pass				
							40	3.85	-8.640	-0.0050	-2.5 to 2.5	Pass				
							50	3.85	-6.437	-0.0038	-2.5 to 2.5	Pass				
							1732.5	50	0	20	3.27	-2.017	-0.0012	-2.5 to 2.5	Pass	
				3.85	-1.631	-0.0009					-2.5 to 2.5	Pass				
				4.43	-3.319	-0.0019					-2.5 to 2.5	Pass				
										-30	3.85	-4.034	-0.0023	-2.5 to 2.5	Pass	
											-20	3.85	-4.563	-0.0026	-2.5 to 2.5	Pass
												3.85	-5.651	-0.0033	-2.5 to 2.5	Pass
										0	3.85	-3.347	-0.0019	-2.5 to 2.5	Pass	
	10	3.85	-0.844								-0.0005	-2.5 to 2.5	Pass			
	30	3.85	-4.091							-0.0024	-2.5 to 2.5	Pass				
	40	3.85	-7.682							-0.0044	-2.5 to 2.5	Pass				
	50	3.85	-3.834							-0.0022	-2.5 to 2.5	Pass				
	1750	50	0							20	3.27	-4.249	-0.0024	-2.5 to 2.5	Pass	
				3.85	-10.228	-0.0058					-2.5 to 2.5	Pass				
				4.43	-10.114	-0.0058					-2.5 to 2.5	Pass				
										-30	3.85	-7.238	-0.0041	-2.5 to 2.5	Pass	
											-20	3.85	0.744	0.0004	-2.5 to 2.5	Pass
												3.85	-6.452	-0.0037	-2.5 to 2.5	Pass
										0	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass	
							10	3.85	-11.086		-0.0063	-2.5 to 2.5	Pass			
							30	3.85	-4.535	-0.0026	-2.5 to 2.5	Pass				
							40	3.85	-5.407	-0.0031	-2.5 to 2.5	Pass				
							50	3.85	-1.044	-0.0006	-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	-7.725	-0.0045	-2.5 to 2.5	Pass
					3.85	-7.095	-0.0041	-2.5 to 2.5	Pass
					4.43	-10.815	-0.0063	-2.5 to 2.5	Pass
				-30	3.85	-8.941	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-9.470	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-11.745	-0.0068	-2.5 to 2.5	Pass
				0	3.85	-10.543	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-8.526	-0.0050	-2.5 to 2.5	Pass
				30	3.85	37.565	0.0219	-2.5 to 2.5	Pass
	40	3.85	-6.309	-0.0037	-2.5 to 2.5	Pass			
	50	3.85	-9.055	-0.0053	-2.5 to 2.5	Pass			
	1732.5	75	0	20	3.27	-12.803	-0.0074	-2.5 to 2.5	Pass
					3.85	-2.904	-0.0017	-2.5 to 2.5	Pass
					4.43	-7.110	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-0.758	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-23.360	-0.0135	-2.5 to 2.5	Pass
				-10	3.85	3.662	0.0021	-2.5 to 2.5	Pass
				0	3.85	-2.618	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-5.651	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-5.579	-0.0032	-2.5 to 2.5	Pass
	40	3.85	2.847	0.0016	-2.5 to 2.5	Pass			
	50	3.85	-4.921	-0.0028	-2.5 to 2.5	Pass			
	1747.5	75	0	20	3.27	-0.486	-0.0003	-2.5 to 2.5	Pass
					3.85	-1.488	-0.0009	-2.5 to 2.5	Pass
					4.43	-10.757	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-2.332	-0.0013	-2.5 to 2.5	Pass
-10				3.85	-5.236	-0.0030	-2.5 to 2.5	Pass	
0				3.85	-11.086	-0.0063	-2.5 to 2.5	Pass	
10				3.85	4.277	0.0024	-2.5 to 2.5	Pass	
30				3.85	-3.405	-0.0019	-2.5 to 2.5	Pass	
40	3.85	-9.913	-0.0057	-2.5 to 2.5	Pass				
50	3.85	-2.260	-0.0013	-2.5 to 2.5	Pass				
16QAM	1717.5	75	0	20	3.27	-1.802	-0.0010	-2.5 to 2.5	Pass
					3.85	-10.314	-0.0060	-2.5 to 2.5	Pass
					4.43	-7.110	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-8.197	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-5.150	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-4.234	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-5.679	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-10.085	-0.0059	-2.5 to 2.5	Pass
				30	3.85	-9.212	-0.0054	-2.5 to 2.5	Pass
	40	3.85	-7.768	-0.0045	-2.5 to 2.5	Pass			
	50	3.85	-12.574	-0.0073	-2.5 to 2.5	Pass			
	1732.5	75	0	20	3.27	-12.674	-0.0073	-2.5 to 2.5	Pass
					3.85	0.744	0.0004	-2.5 to 2.5	Pass
					4.43	-8.311	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-6.237	-0.0036	-2.5 to 2.5	Pass
-20				3.85	-6.952	-0.0040	-2.5 to 2.5	Pass	

				-10	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-6.309	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-13.976	-0.0081	-2.5 to 2.5	Pass
				30	3.85	-4.249	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-3.519	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-6.022	-0.0035	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-0.401	-0.0002	-2.5 to 2.5	Pass
					3.85	-5.236	-0.0030	-2.5 to 2.5	Pass
					4.43	-10.686	-0.0061	-2.5 to 2.5	Pass
				-30	3.85	2.747	0.0016	-2.5 to 2.5	Pass
				-20	3.85	-3.605	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-11.315	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-3.648	-0.0021	-2.5 to 2.5	Pass
				10	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				30	3.85	-3.090	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-7.067	-0.0040	-2.5 to 2.5	Pass
				50	3.85	4.449	0.0025	-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	-6.824	-0.0040	-2.5 to 2.5	Pass			
					3.85	-9.298	-0.0054	-2.5 to 2.5	Pass			
					4.43	-2.475	-0.0014	-2.5 to 2.5	Pass			
				-30	3.85	-7.768	-0.0045	-2.5 to 2.5	Pass			
				-20	3.85	-15.178	-0.0088	-2.5 to 2.5	Pass			
				-10	3.85	-0.587	-0.0003	-2.5 to 2.5	Pass			
				0	3.85	-4.678	-0.0027	-2.5 to 2.5	Pass			
				10	3.85	-10.128	-0.0059	-2.5 to 2.5	Pass			
				30	3.85	-0.486	-0.0003	-2.5 to 2.5	Pass			
				40	3.85	-5.021	-0.0029	-2.5 to 2.5	Pass			
				50	3.85	-7.968	-0.0046	-2.5 to 2.5	Pass			
				1732.5	100	0	20	3.27	-5.050	-0.0029	-2.5 to 2.5	Pass
								3.85	-10.042	-0.0058	-2.5 to 2.5	Pass
								4.43	-0.801	-0.0005	-2.5 to 2.5	Pass
							-30	3.85	-5.350	-0.0031	-2.5 to 2.5	Pass
	-20	3.85	-8.254				-0.0048	-2.5 to 2.5	Pass			
	-10	3.85	-1.059				-0.0006	-2.5 to 2.5	Pass			
	0	3.85	-8.140				-0.0047	-2.5 to 2.5	Pass			
	10	3.85	-6.609				-0.0038	-2.5 to 2.5	Pass			
	30	3.85	-2.618				-0.0015	-2.5 to 2.5	Pass			
	40	3.85	-4.520	-0.0026	-2.5 to 2.5	Pass						
	50	3.85	-13.933	-0.0080	-2.5 to 2.5	Pass						
	1745	100	0	20	3.27	-12.975	-0.0074	-2.5 to 2.5	Pass			
					3.85	0.415	0.0002	-2.5 to 2.5	Pass			
					4.43	-2.861	-0.0016	-2.5 to 2.5	Pass			
				-30	3.85	-0.787	-0.0005	-2.5 to 2.5	Pass			
				-20	3.85	-3.777	-0.0022	-2.5 to 2.5	Pass			
				-10	3.85	-4.277	-0.0025	-2.5 to 2.5	Pass			
				0	3.85	-6.194	-0.0035	-2.5 to 2.5	Pass			
				10	3.85	-3.934	-0.0023	-2.5 to 2.5	Pass			

				30	3.85	-2.689	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-6.781	-0.0039	-2.5 to 2.5	Pass
				50	3.85	-3.719	-0.0021	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-2.832	-0.0016	-2.5 to 2.5	Pass
					3.85	-7.195	-0.0042	-2.5 to 2.5	Pass
					4.43	-8.240	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	0.186	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-10.557	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-2.389	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-14.105	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-6.037	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-5.279	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-7.811	-0.0045	-2.5 to 2.5	Pass
				1732.5	100	0	20	3.27	-7.067
	3.85	-3.533	-0.0020					-2.5 to 2.5	Pass
	4.43	-6.351	-0.0037					-2.5 to 2.5	Pass
	-30	3.85	-8.612				-0.0050	-2.5 to 2.5	Pass
	-20	3.85	-4.435				-0.0026	-2.5 to 2.5	Pass
	-10	3.85	-4.506				-0.0026	-2.5 to 2.5	Pass
	0	3.85	-9.012				-0.0052	-2.5 to 2.5	Pass
	10	3.85	-5.908				-0.0034	-2.5 to 2.5	Pass
	30	3.85	-8.197				-0.0047	-2.5 to 2.5	Pass
	40	3.85	-7.567				-0.0044	-2.5 to 2.5	Pass
	50	3.85	-13.661				-0.0079	-2.5 to 2.5	Pass
	1745	100	0				20	3.27	-1.602
				3.85	5.493	0.0031		-2.5 to 2.5	Pass
				4.43	-1.516	-0.0009		-2.5 to 2.5	Pass
				-30	3.85	-3.362	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-7.124	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-3.877	-0.0022	-2.5 to 2.5	Pass
				0	3.85	4.077	0.0023	-2.5 to 2.5	Pass
				10	3.85	-5.608	-0.0032	-2.5 to 2.5	Pass
30				3.85	-0.744	-0.0004	-2.5 to 2.5	Pass	
40				3.85	-4.478	-0.0026	-2.5 to 2.5	Pass	
50				3.85	-3.219	-0.0018	-2.5 to 2.5	Pass	

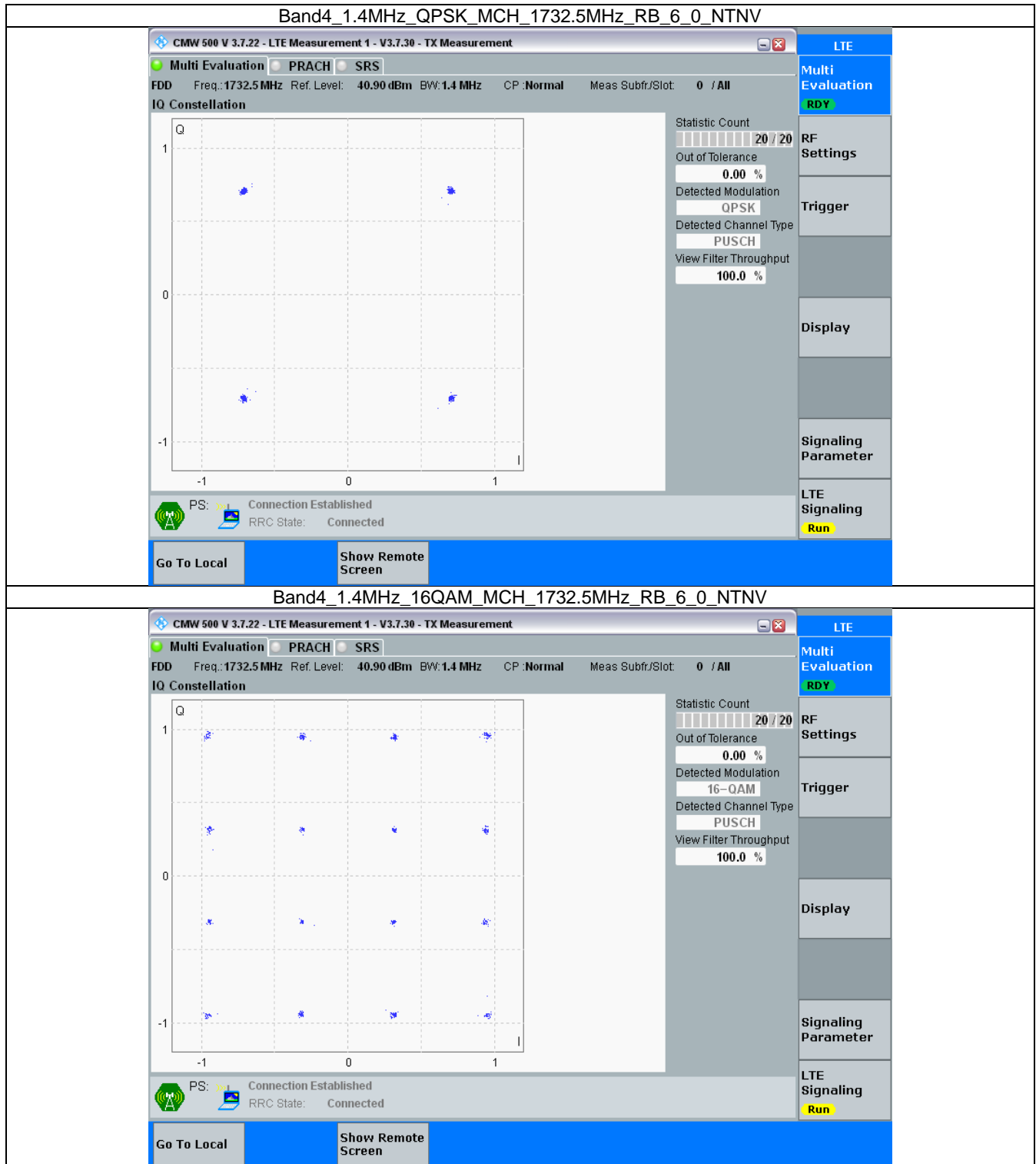
3. Modulation Characteristics

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

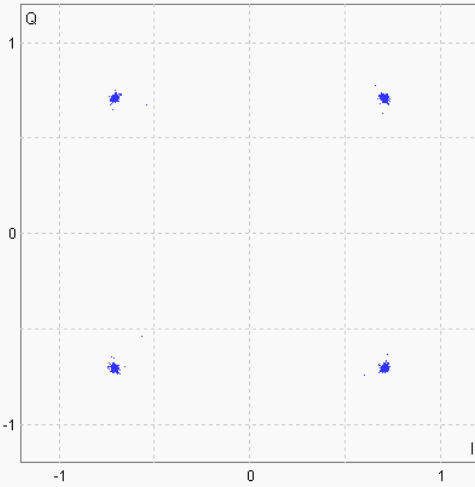
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV

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: 41.00 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 0 / 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
Run

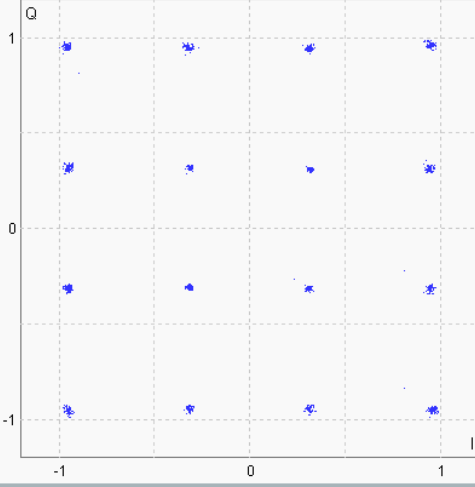
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV

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: 41.00 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 0 / 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

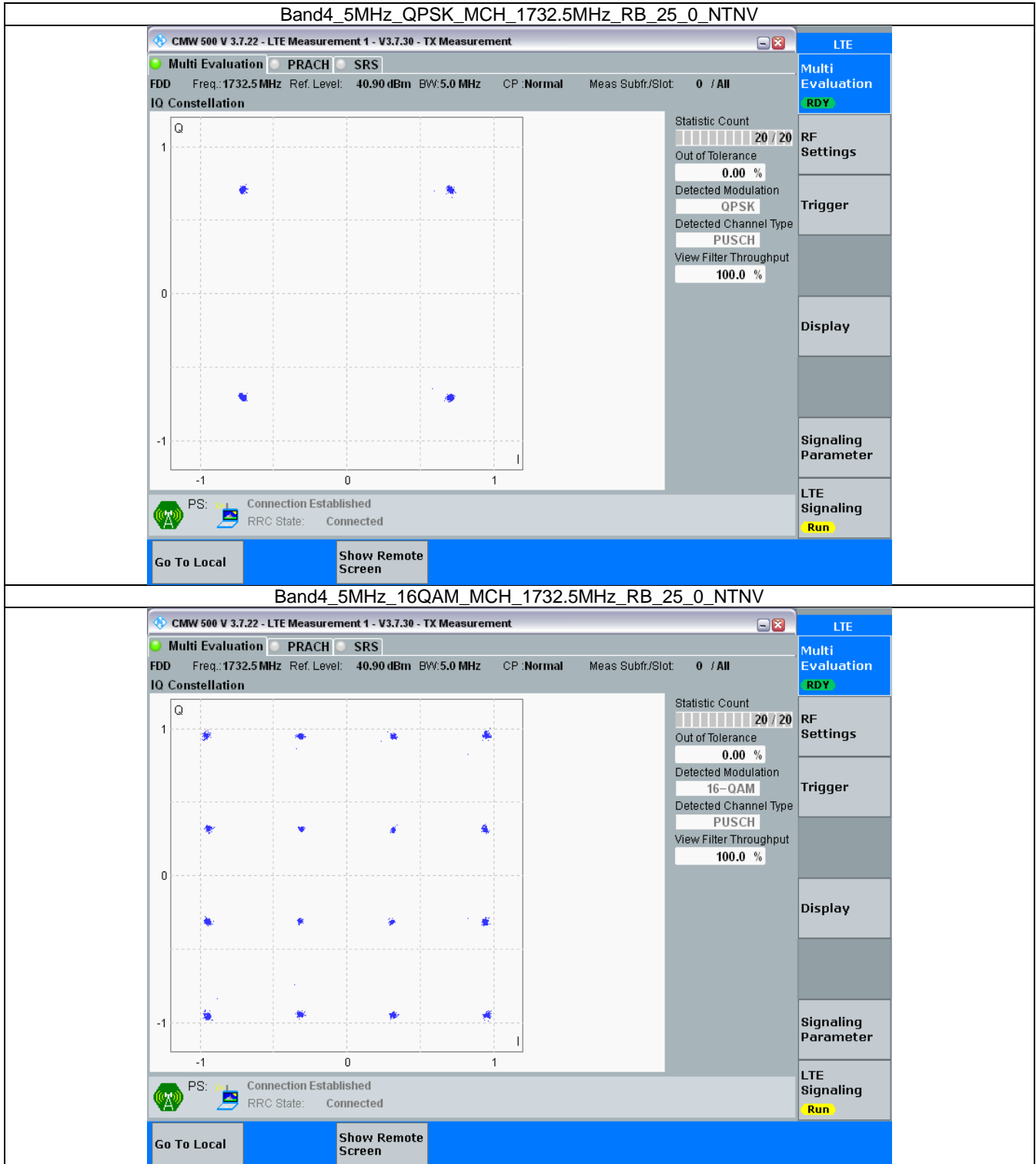
LTE Signaling
Run

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

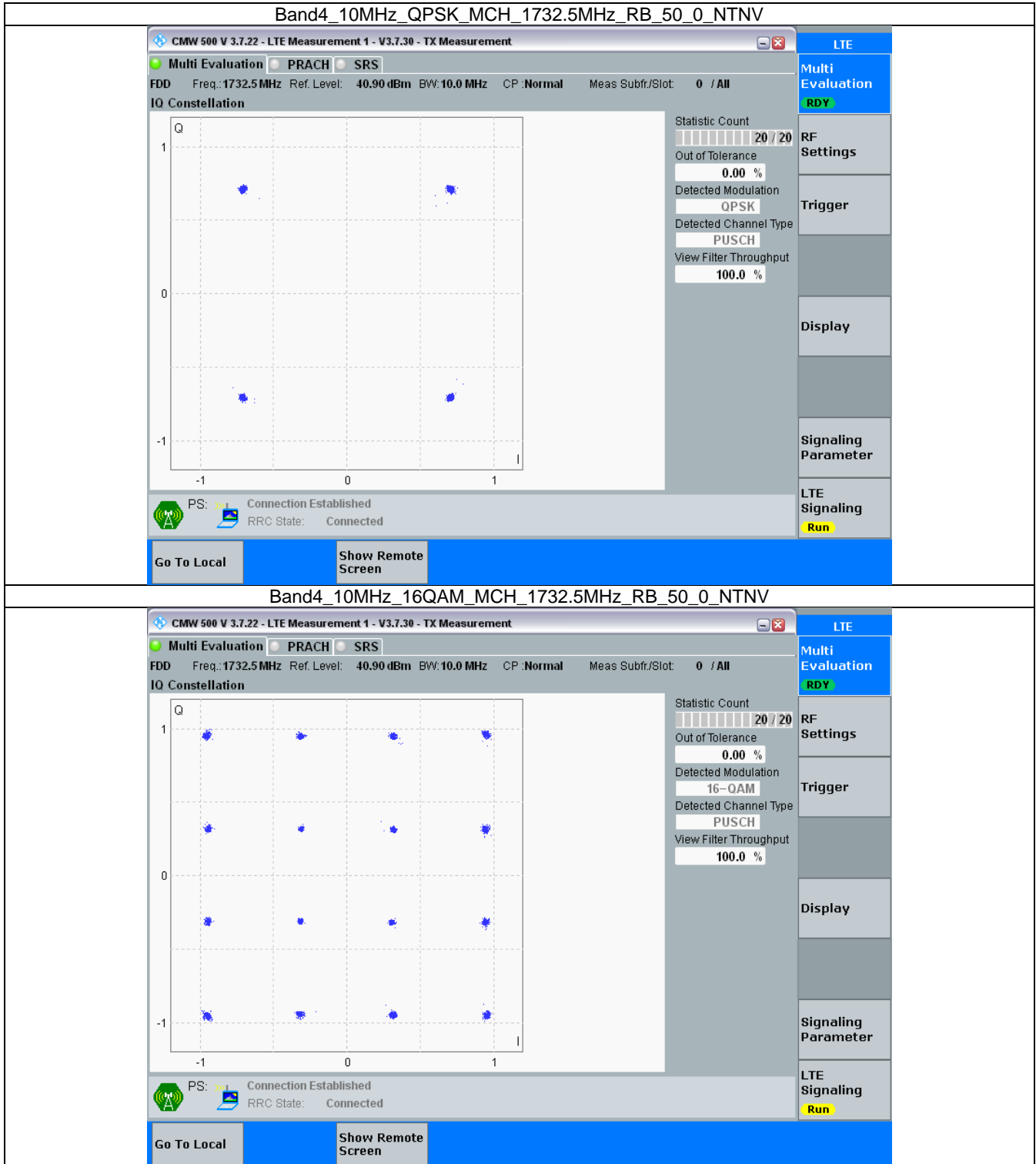


3.4 B4_10MHz

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

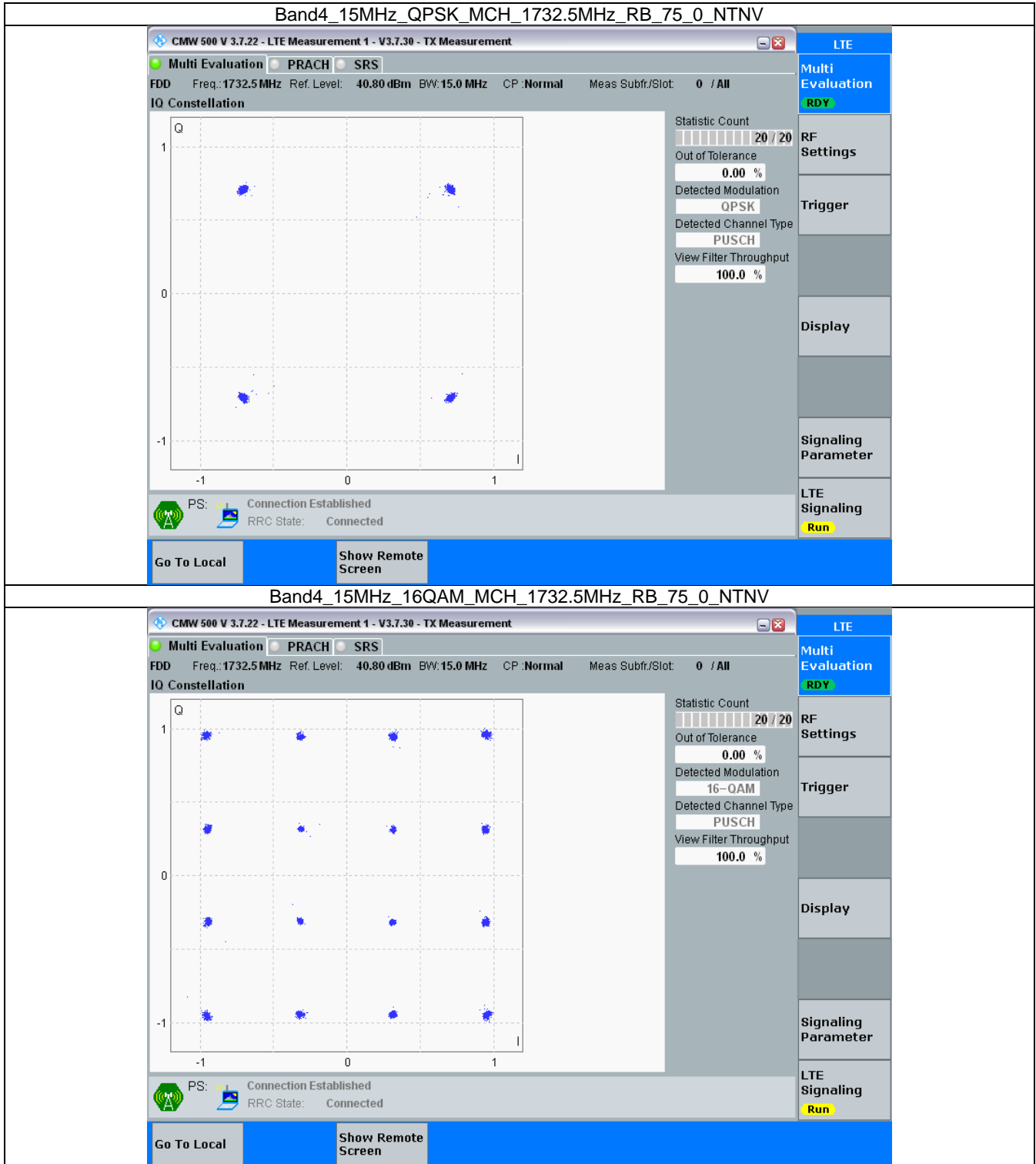


3.5 B4_15MHz

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

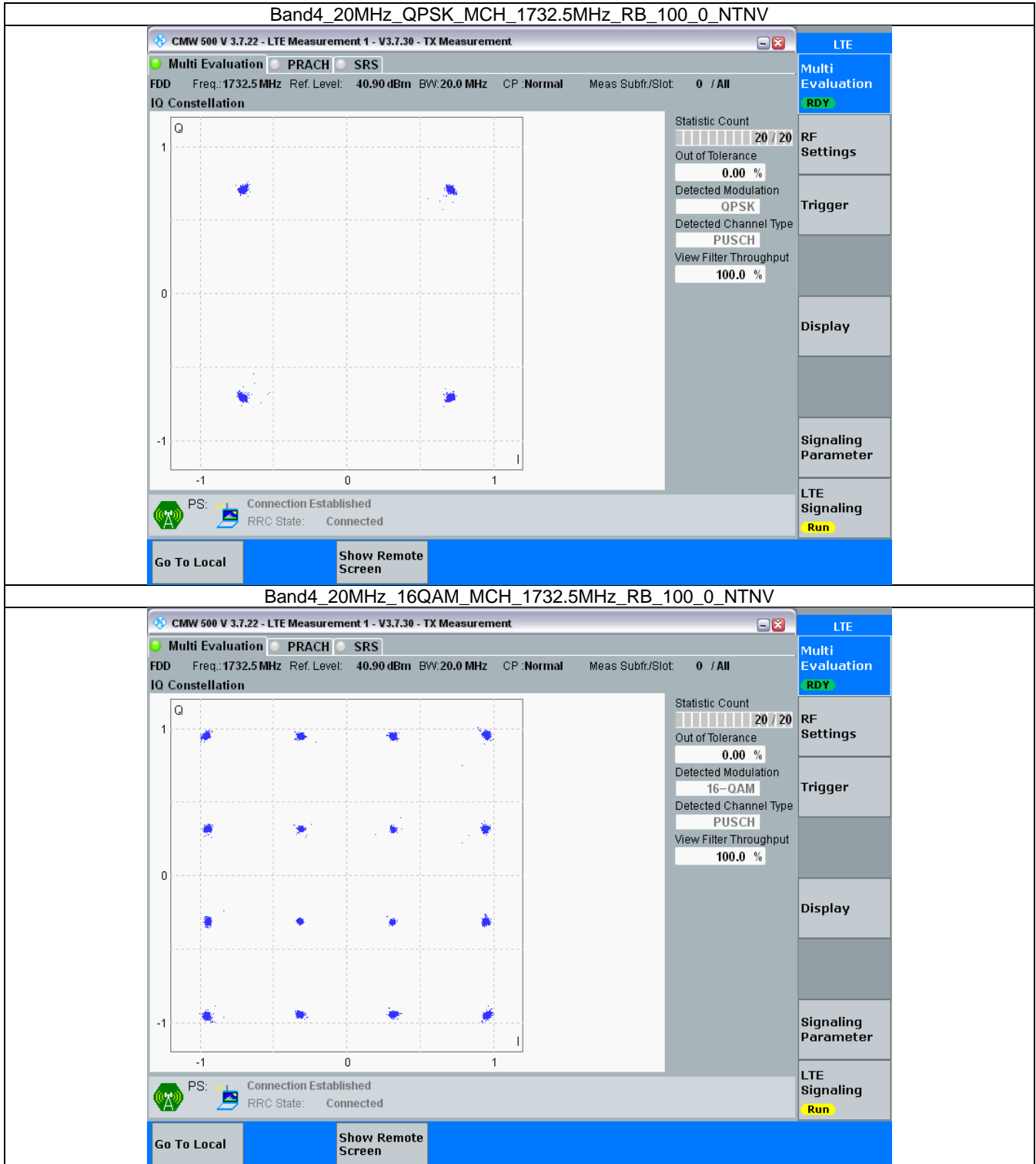


3.6 B4_20MHz

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



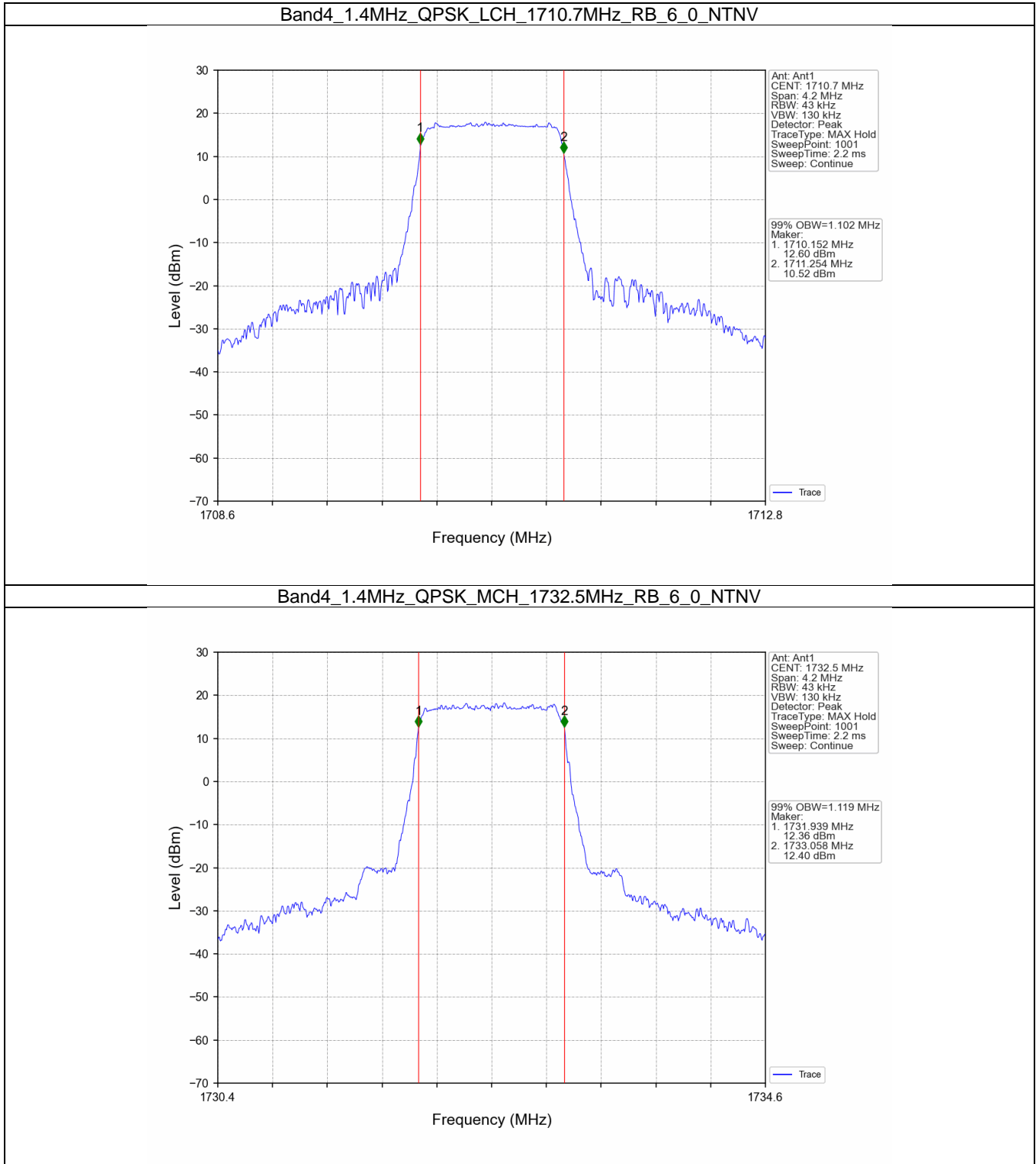
4. 99% & 26dB Bandwidth

4.1 Band4_OBW

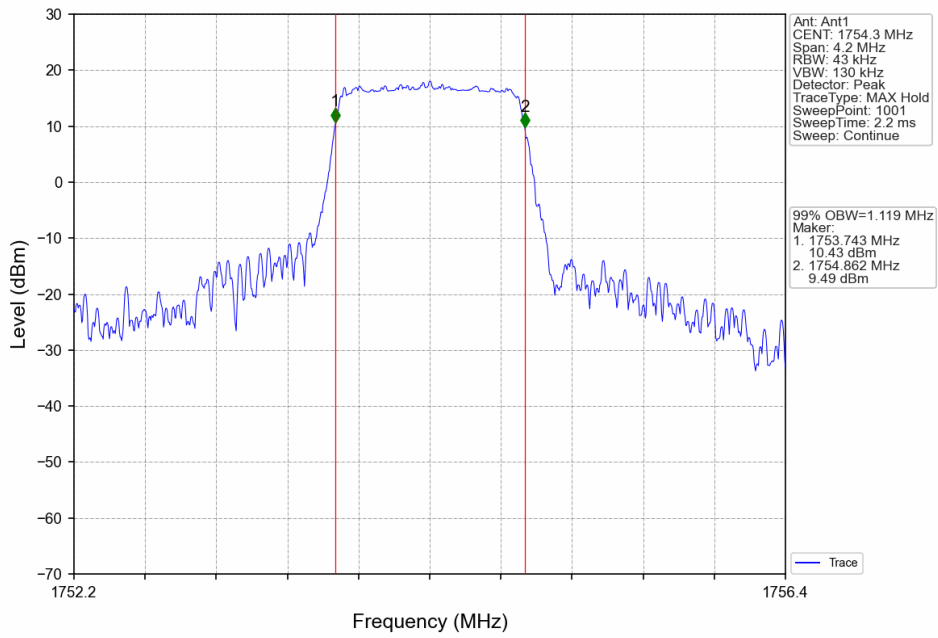
4.1.1 Test Result

Band: 4 / NTN						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.102	Pass
		1732.5	6	0	1.119	Pass
		1754.3	6	0	1.119	Pass
	16QAM	1710.7	6	0	1.113	Pass
		1732.5	6	0	1.111	Pass
		1754.3	6	0	1.113	Pass
3	QPSK	1711.5	15	0	2.734	Pass
		1732.5	15	0	2.731	Pass
		1753.5	15	0	2.722	Pass
	16QAM	1711.5	15	0	2.717	Pass
		1732.5	15	0	2.722	Pass
		1753.5	15	0	2.722	Pass
5	QPSK	1712.5	25	0	4.542	Pass
		1732.5	25	0	4.543	Pass
		1752.5	25	0	4.547	Pass
	16QAM	1712.5	25	0	4.554	Pass
		1732.5	25	0	4.533	Pass
		1752.5	25	0	4.527	Pass
10	QPSK	1715	50	0	9.056	Pass
		1732.5	50	0	9.044	Pass
		1750	50	0	9.048	Pass
	16QAM	1715	50	0	9.041	Pass
		1732.5	50	0	9.052	Pass
		1750	50	0	9.071	Pass
15	QPSK	1717.5	75	0	13.556	Pass
		1732.5	75	0	13.551	Pass
		1747.5	75	0	13.599	Pass
	16QAM	1717.5	75	0	13.570	Pass
		1732.5	75	0	13.577	Pass
		1747.5	75	0	13.609	Pass
20	QPSK	1720	100	0	18.088	Pass
		1732.5	100	0	18.085	Pass
		1745	100	0	18.151	Pass
	16QAM	1720	100	0	18.075	Pass
		1732.5	100	0	18.120	Pass
		1745	100	0	18.176	Pass

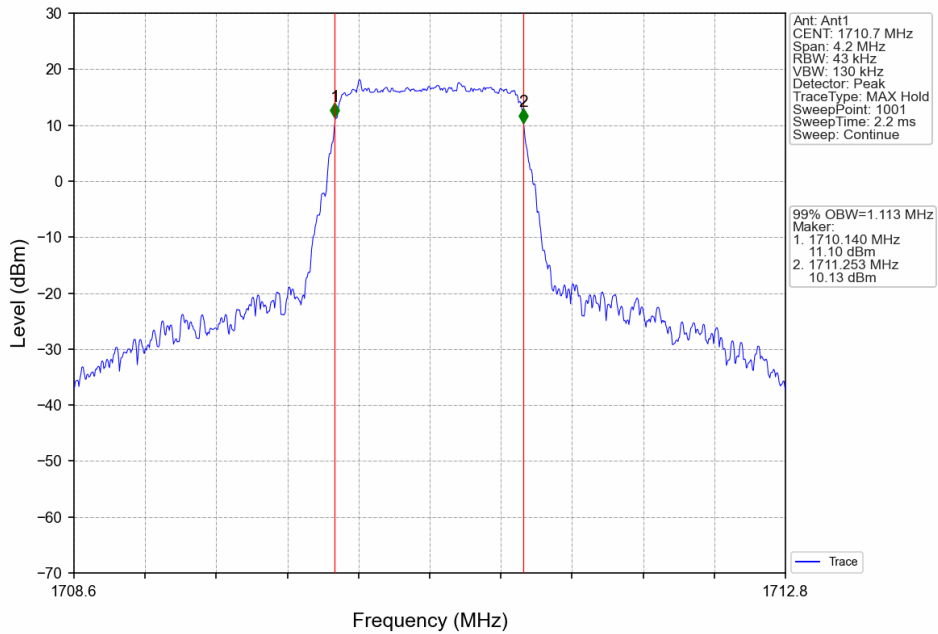
4.1.2 Test Graph



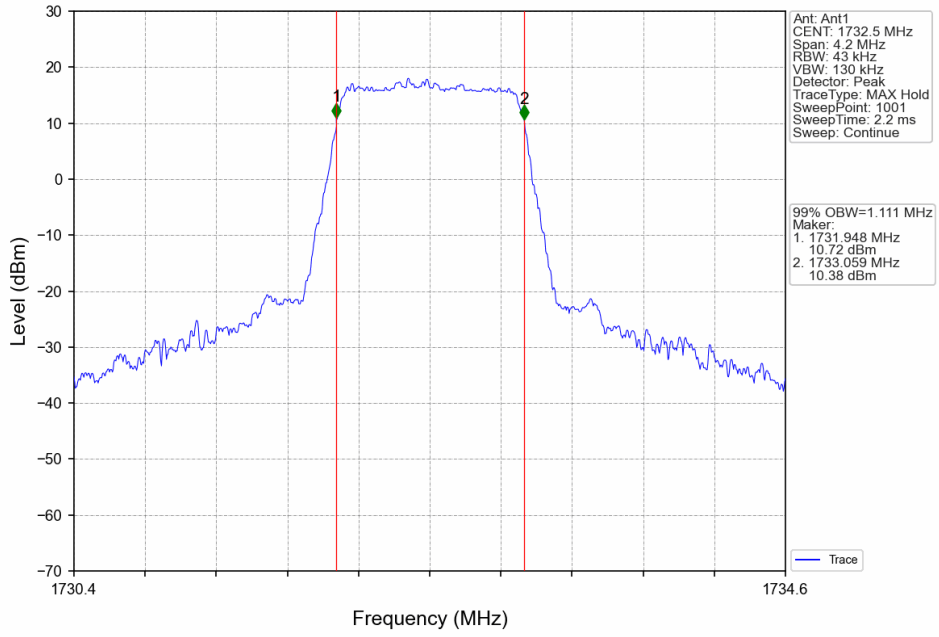
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



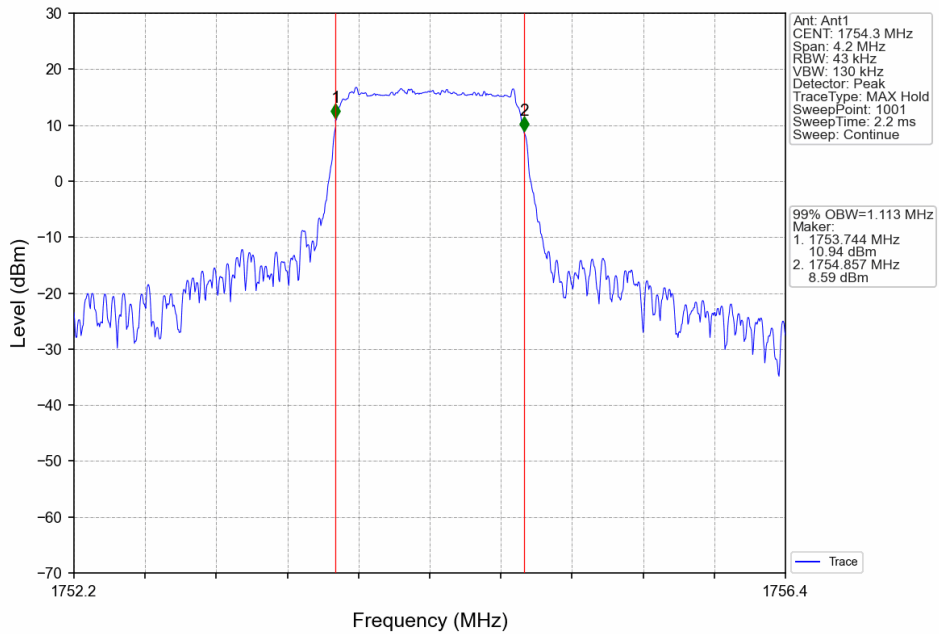
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



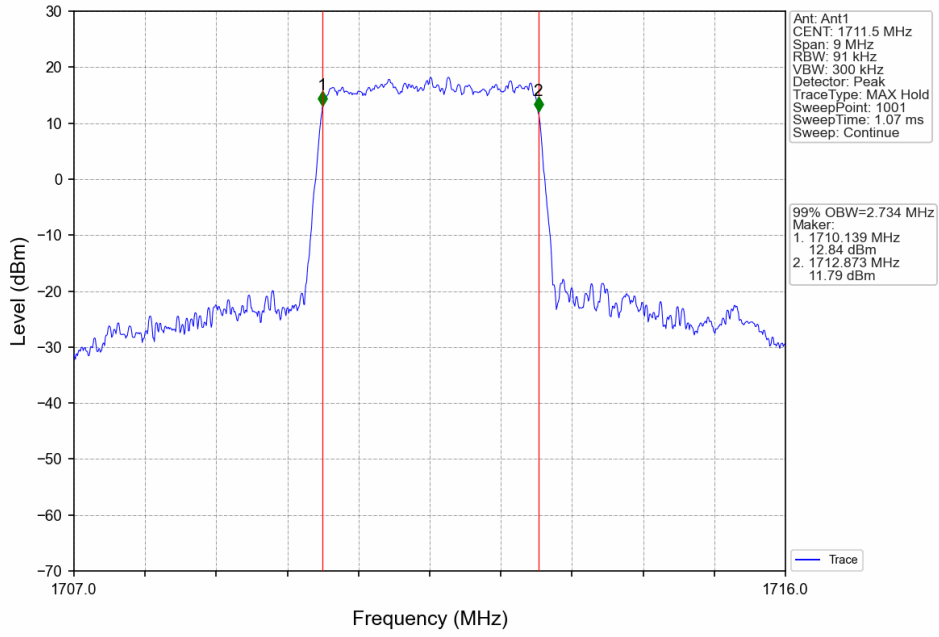
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



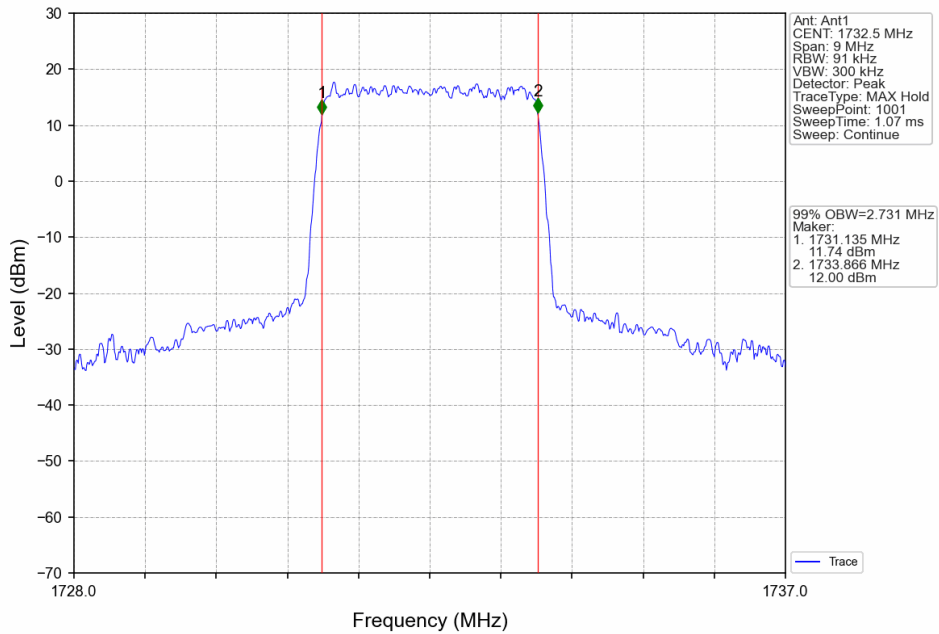
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



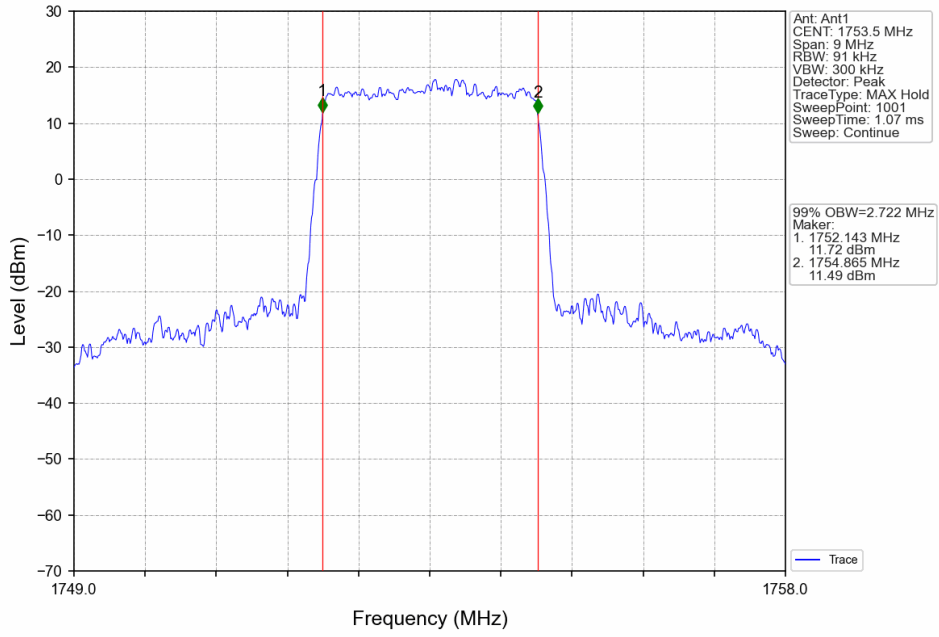
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



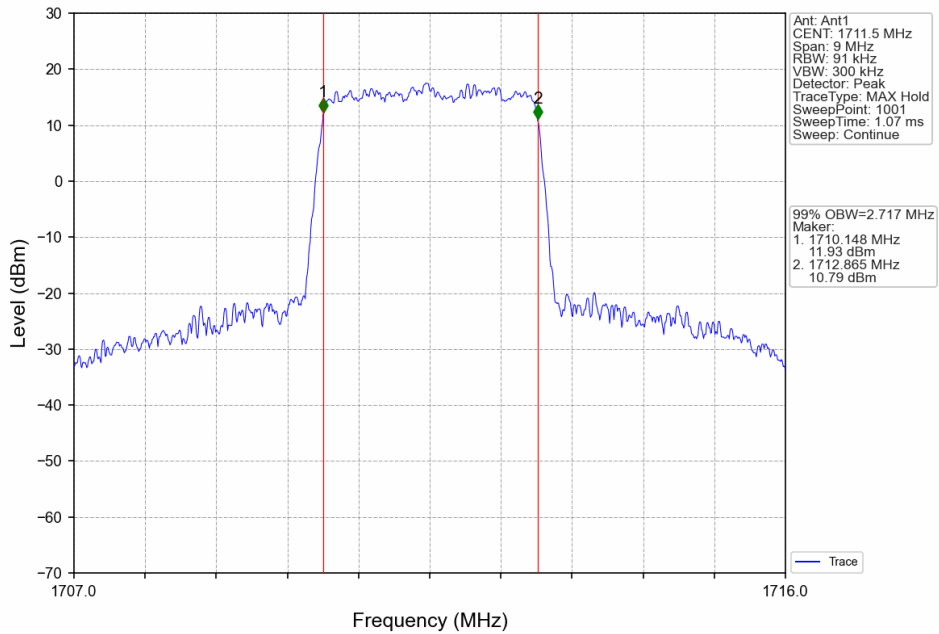
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



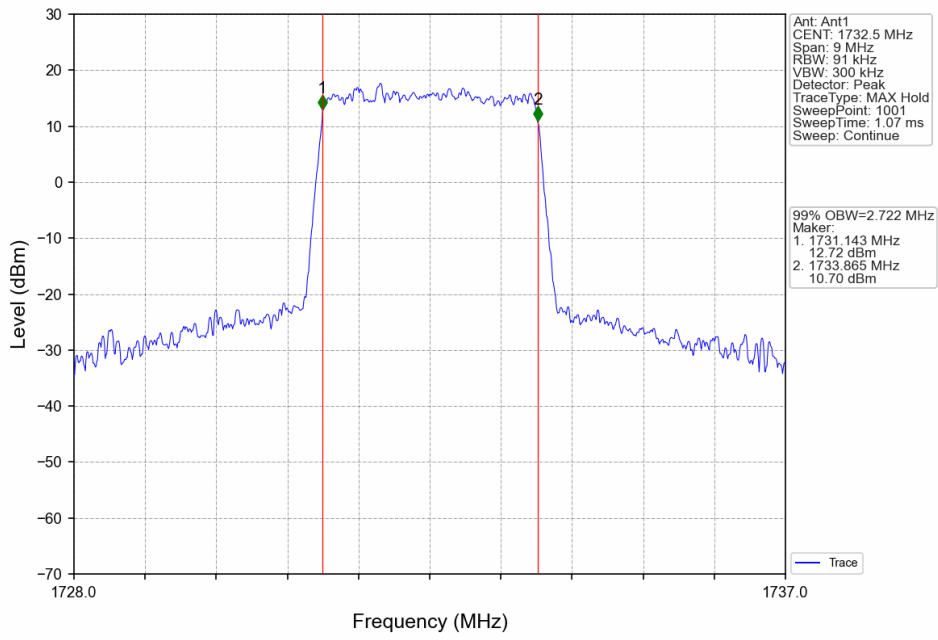
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



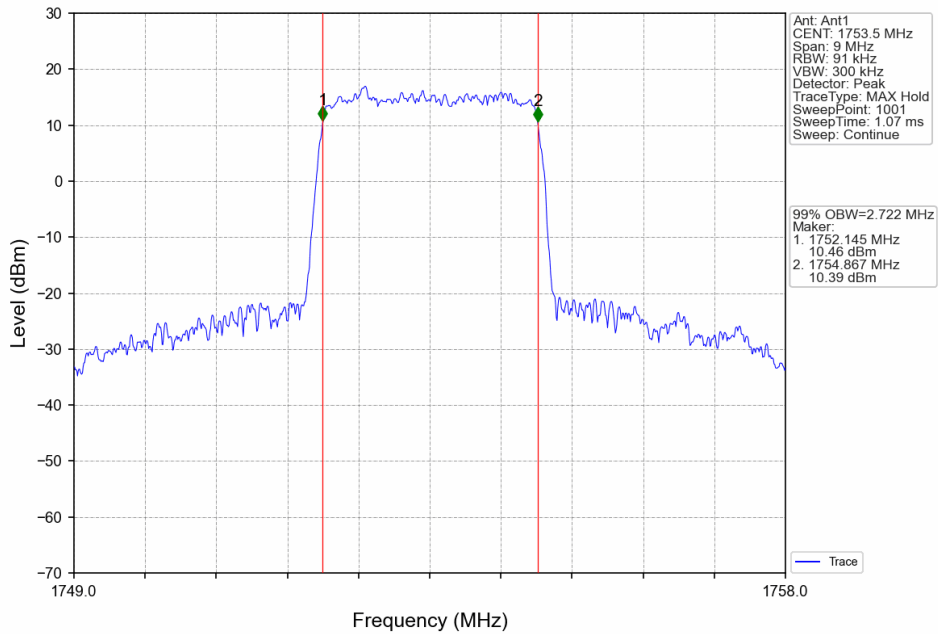
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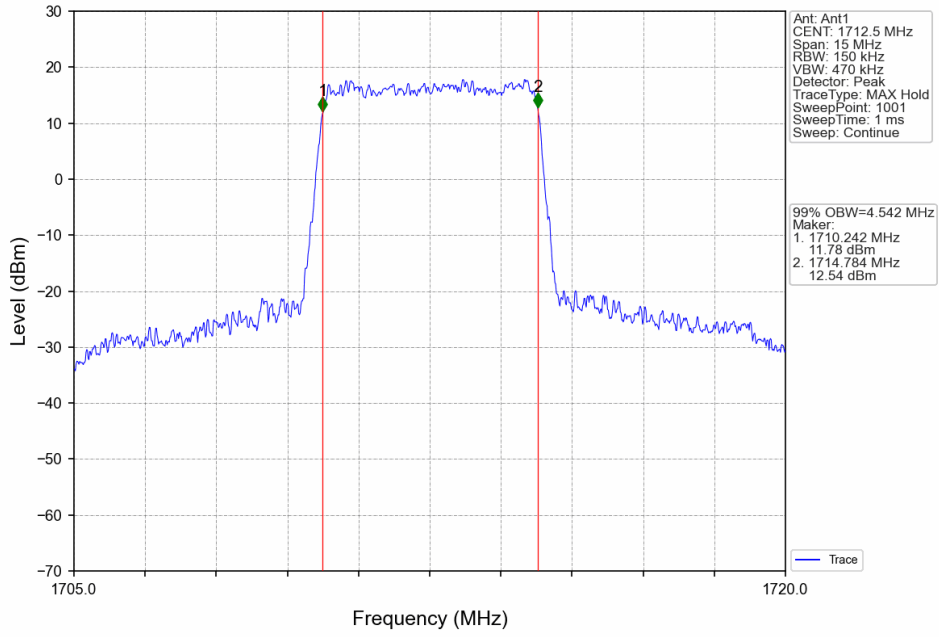
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



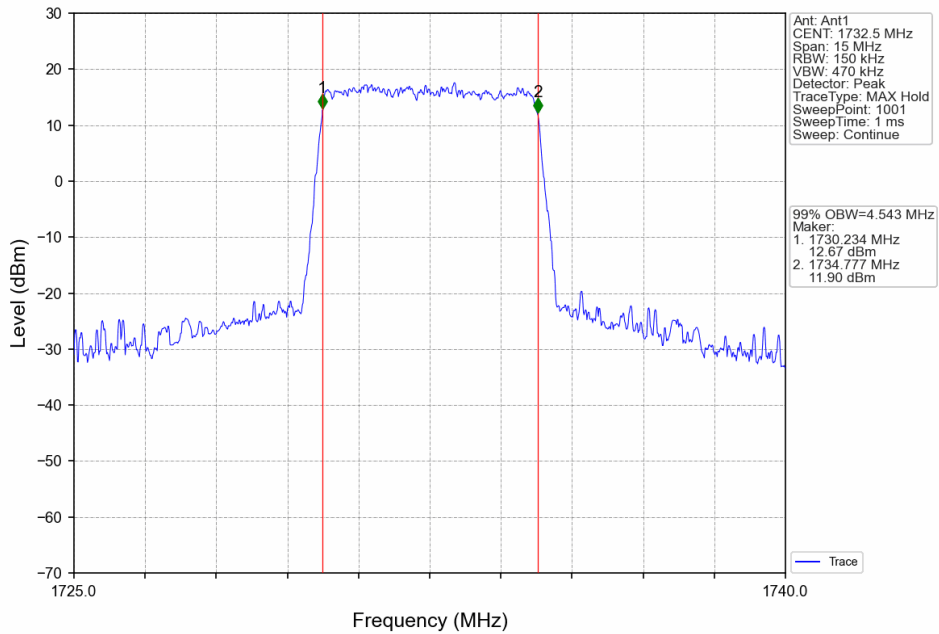
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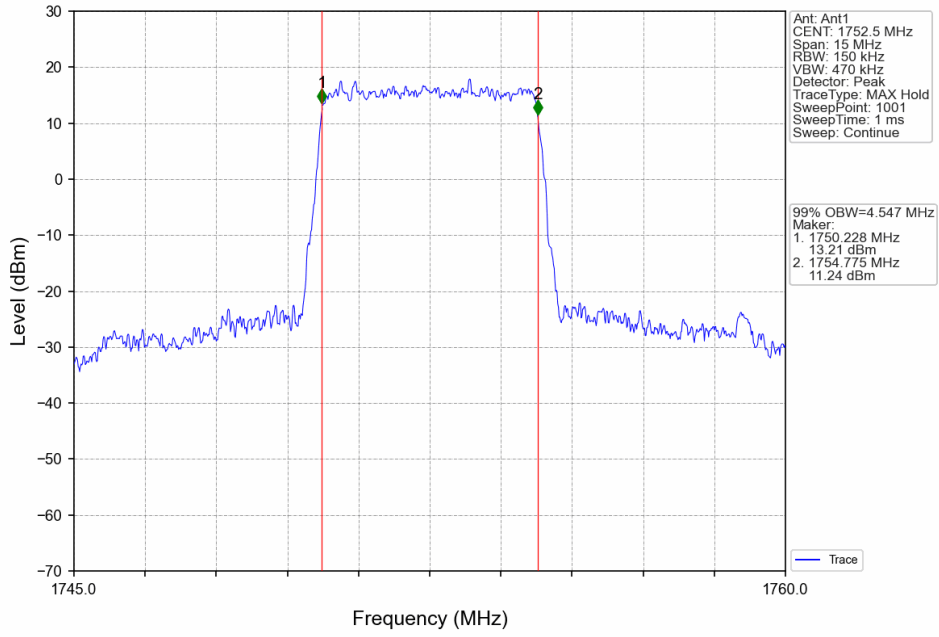
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



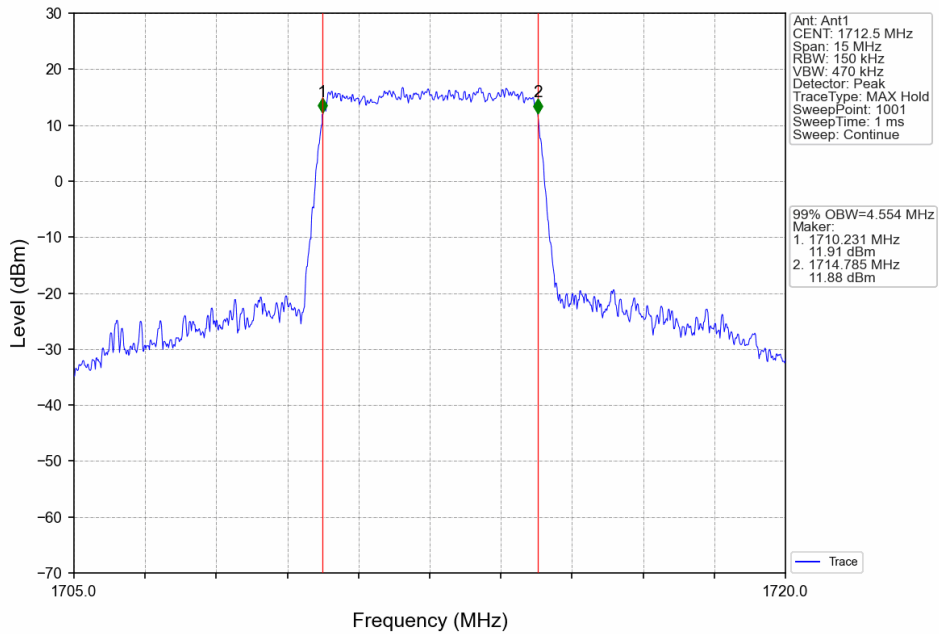
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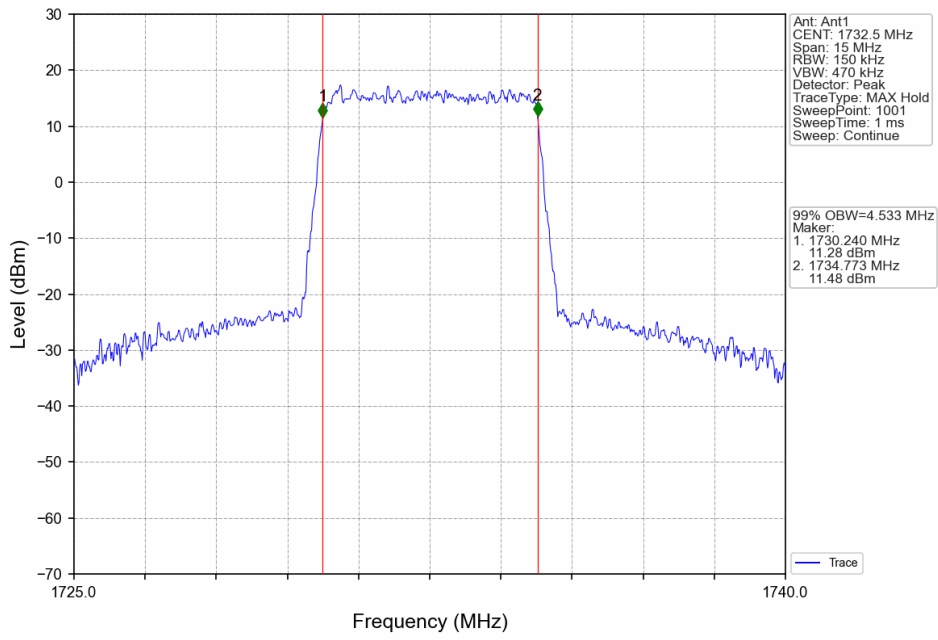
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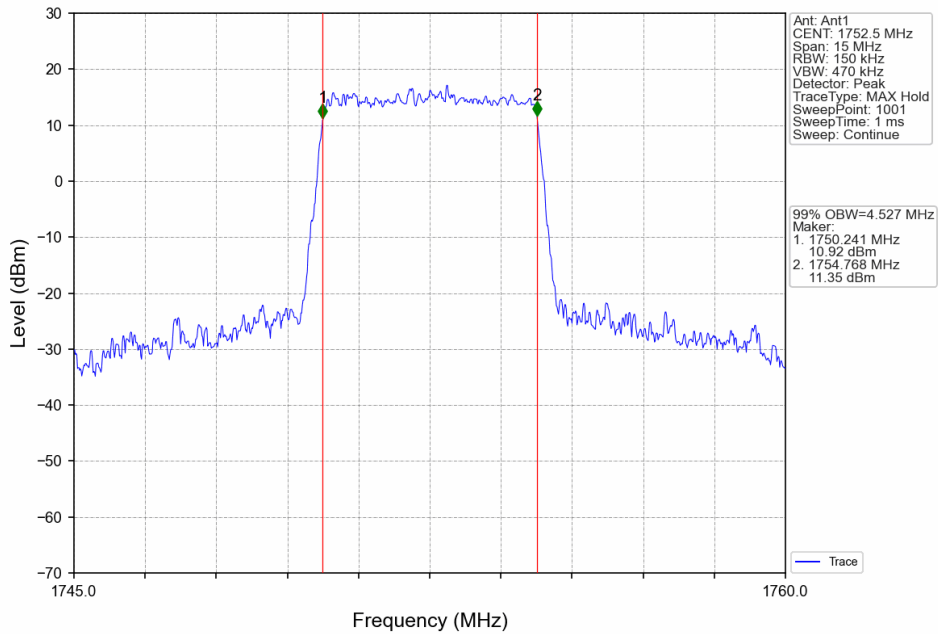
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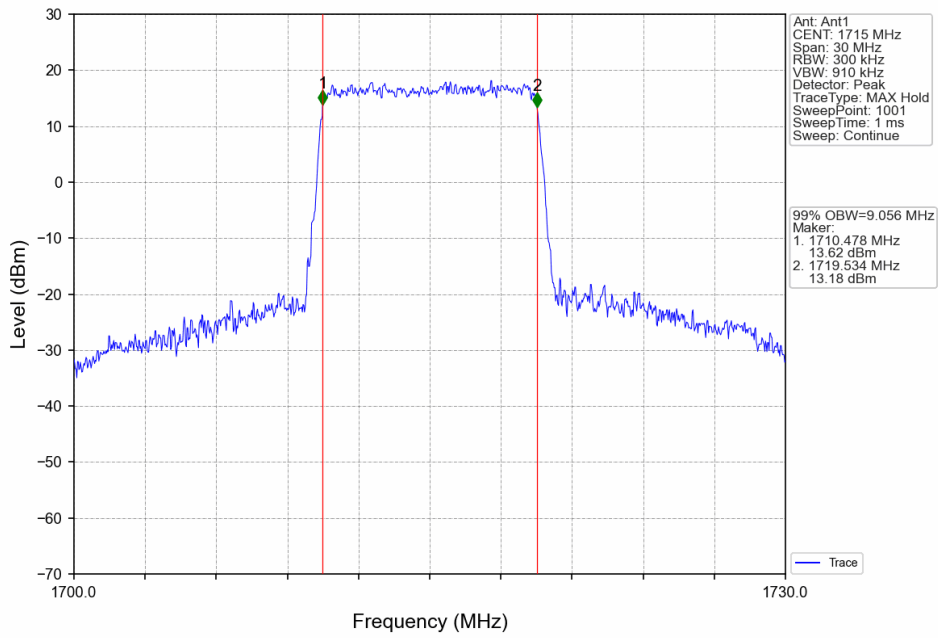
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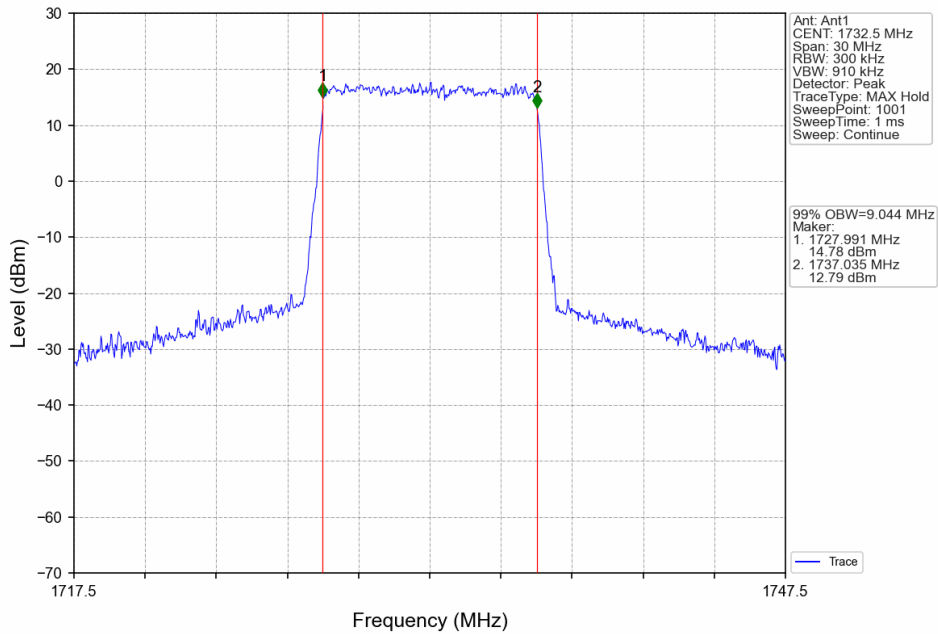
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



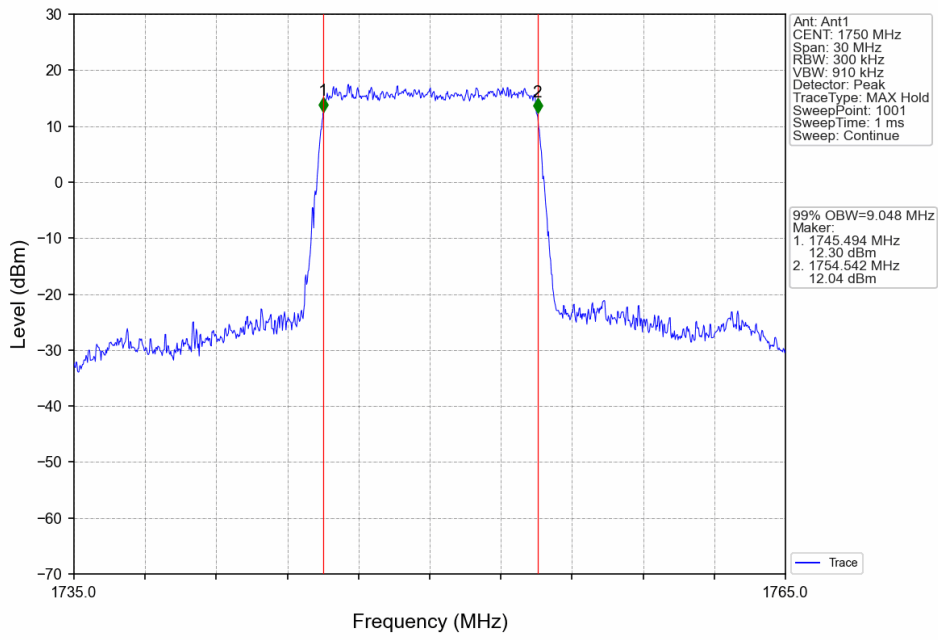
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



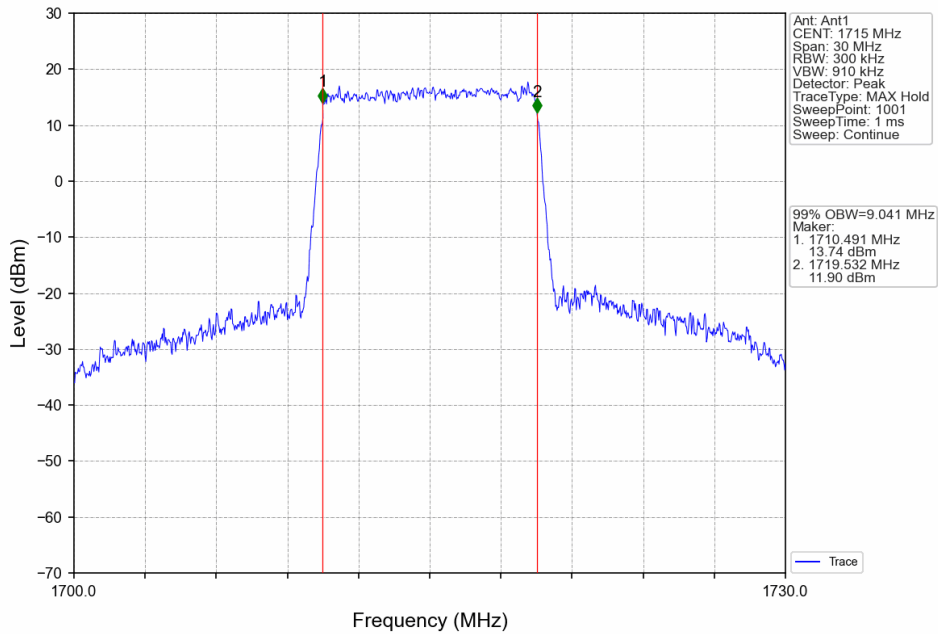
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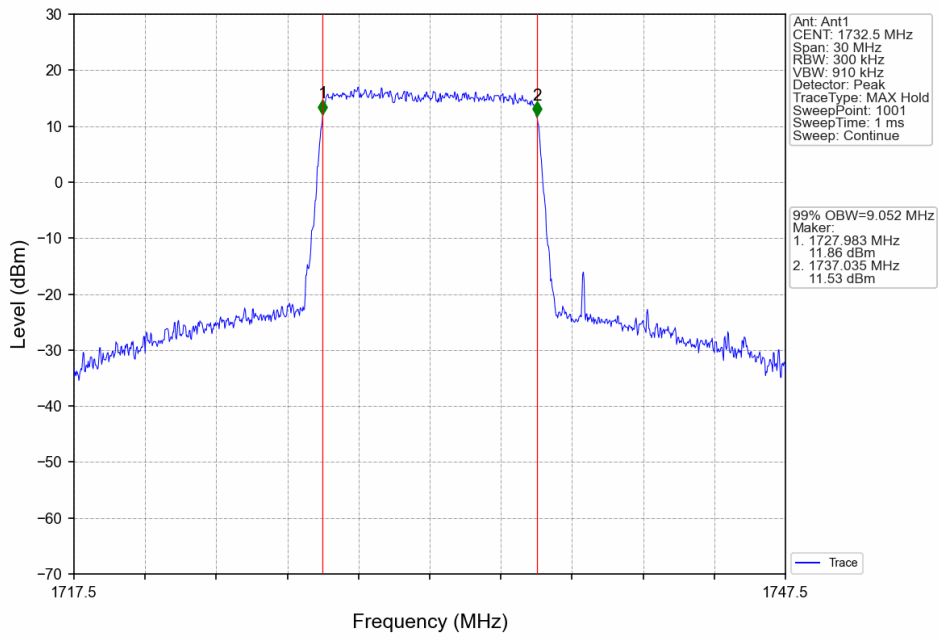
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



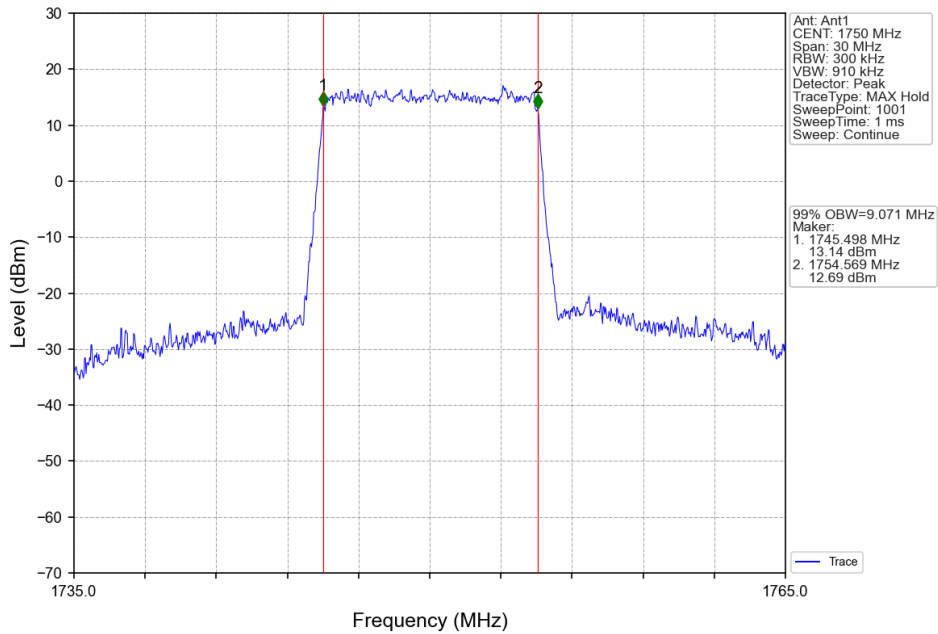
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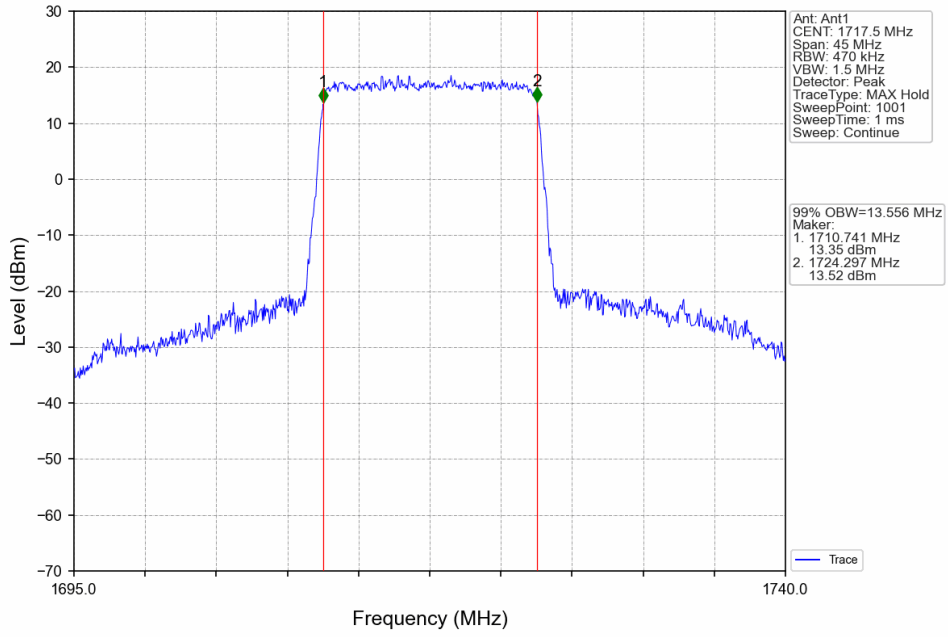
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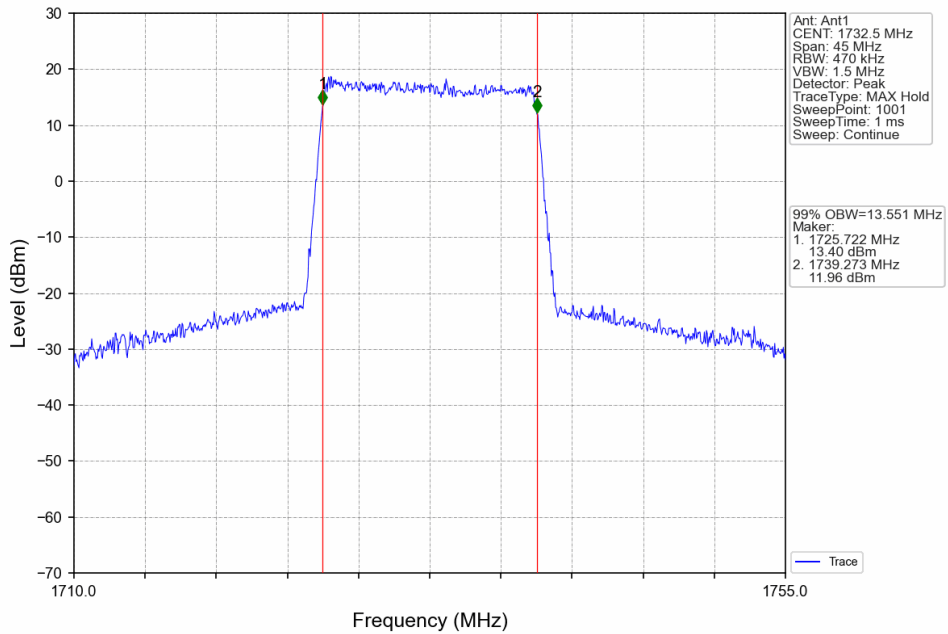
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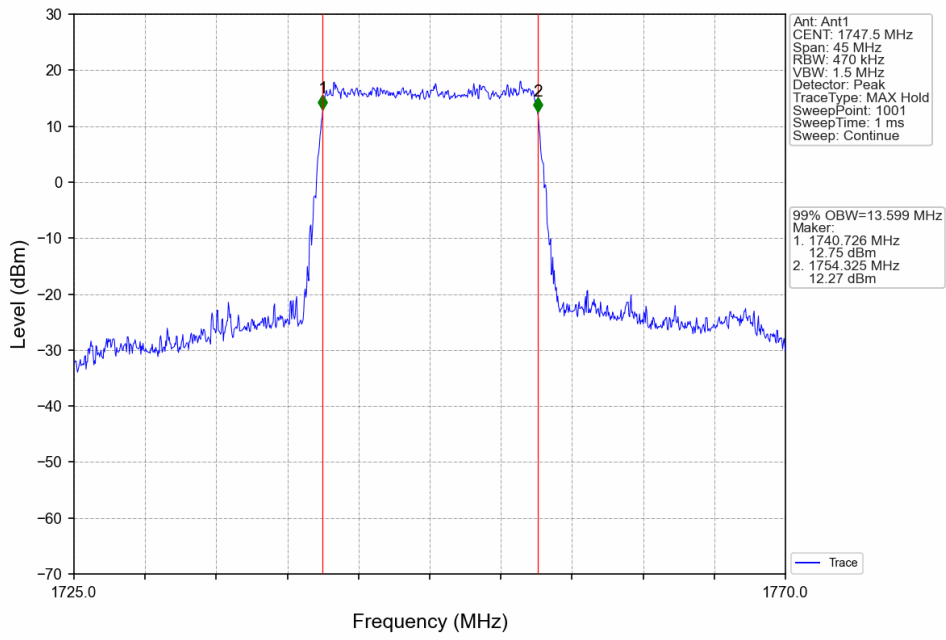
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



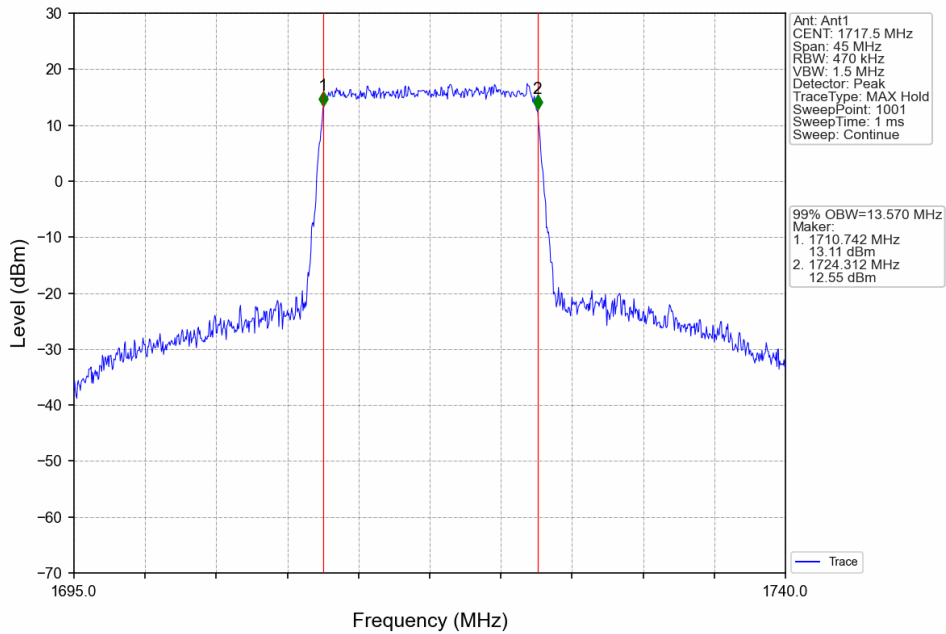
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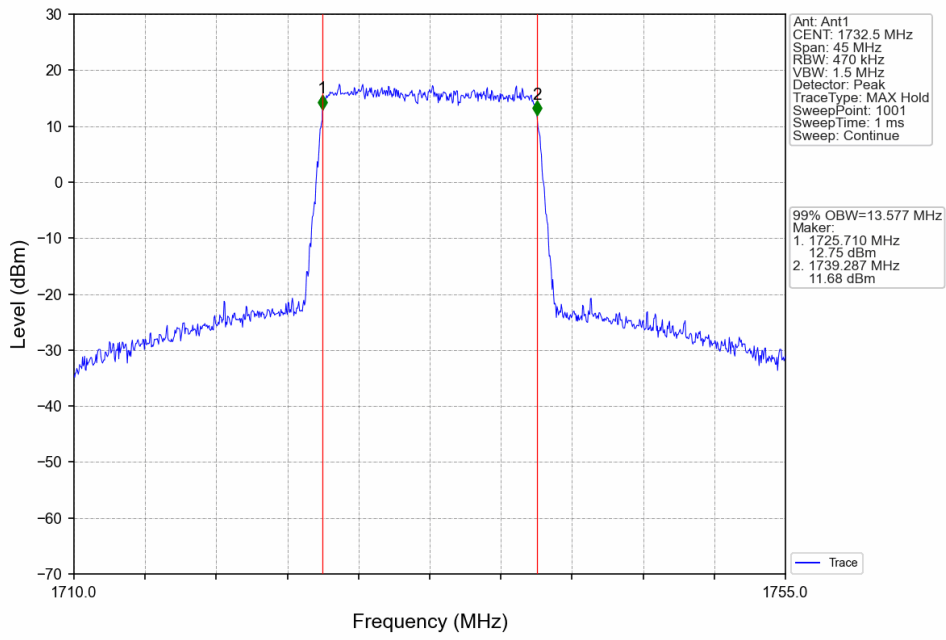
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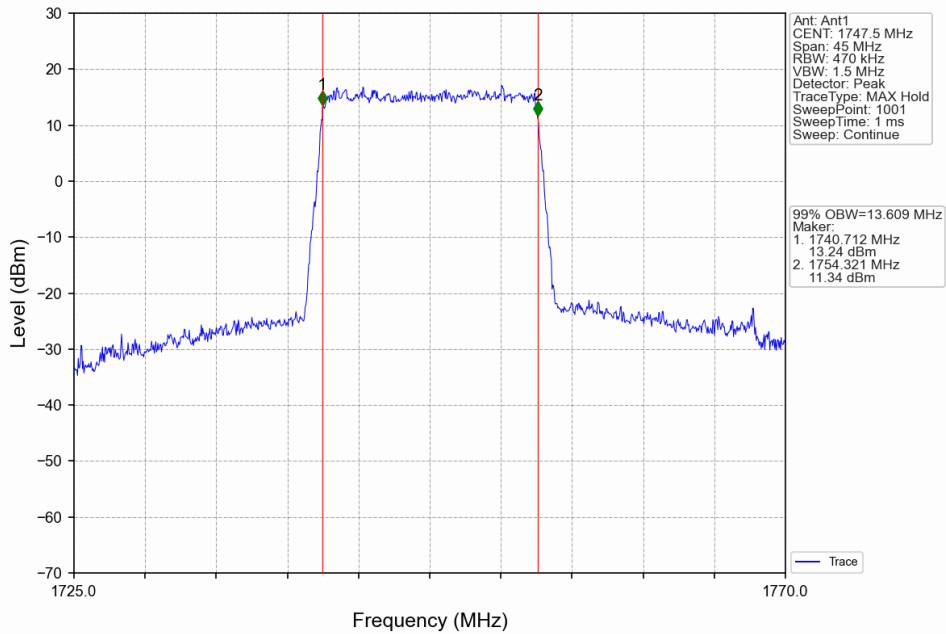
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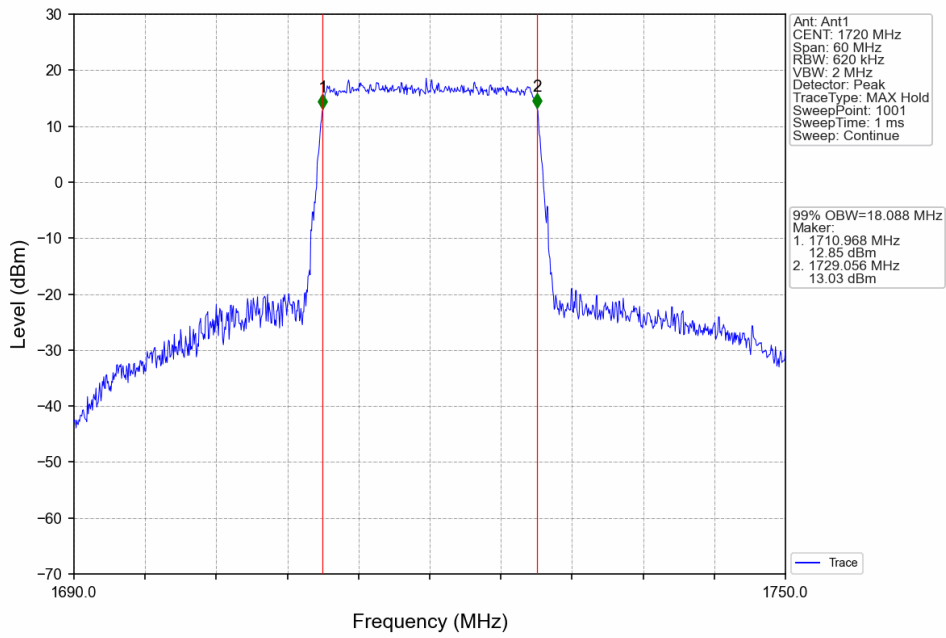
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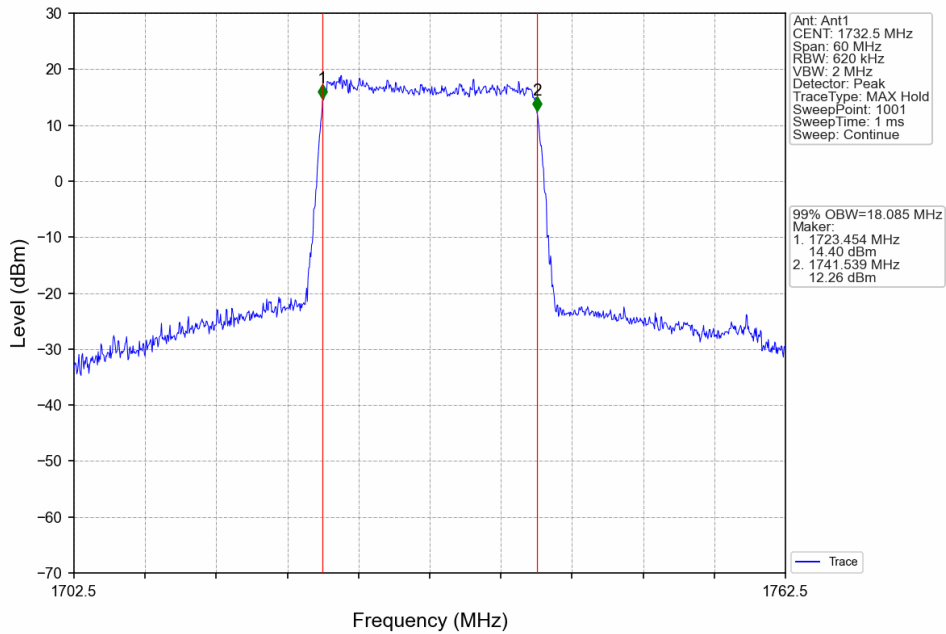
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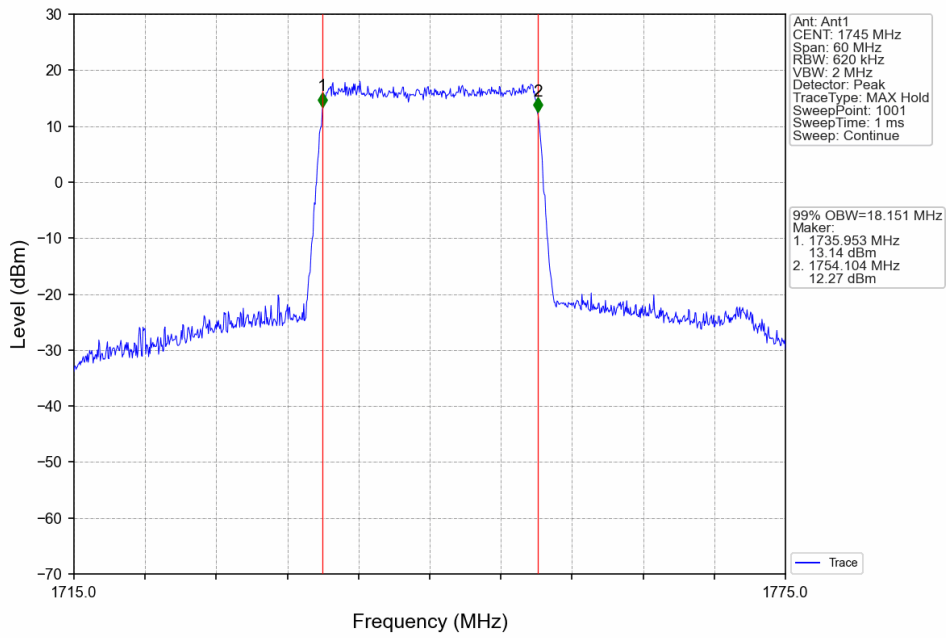
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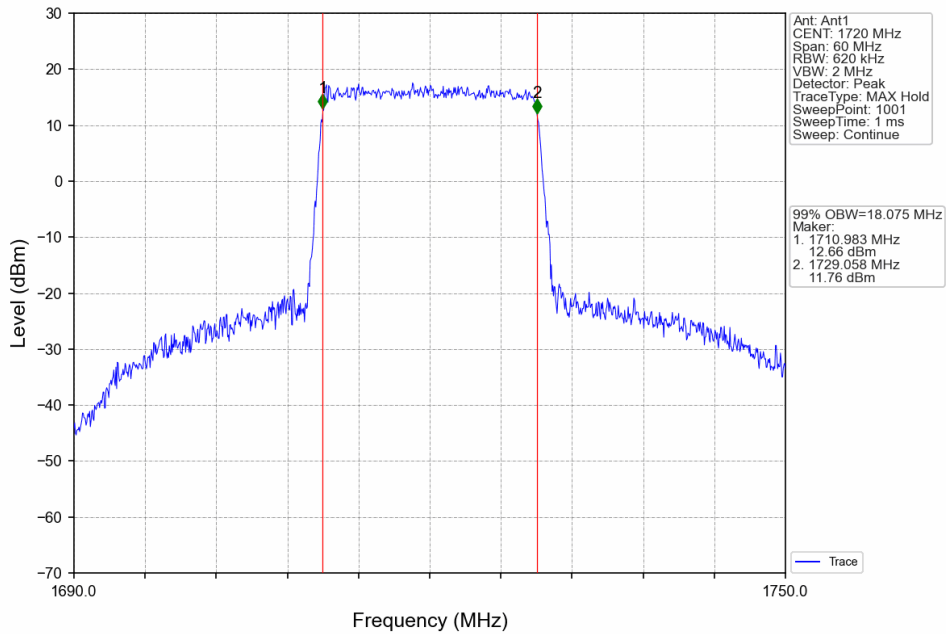
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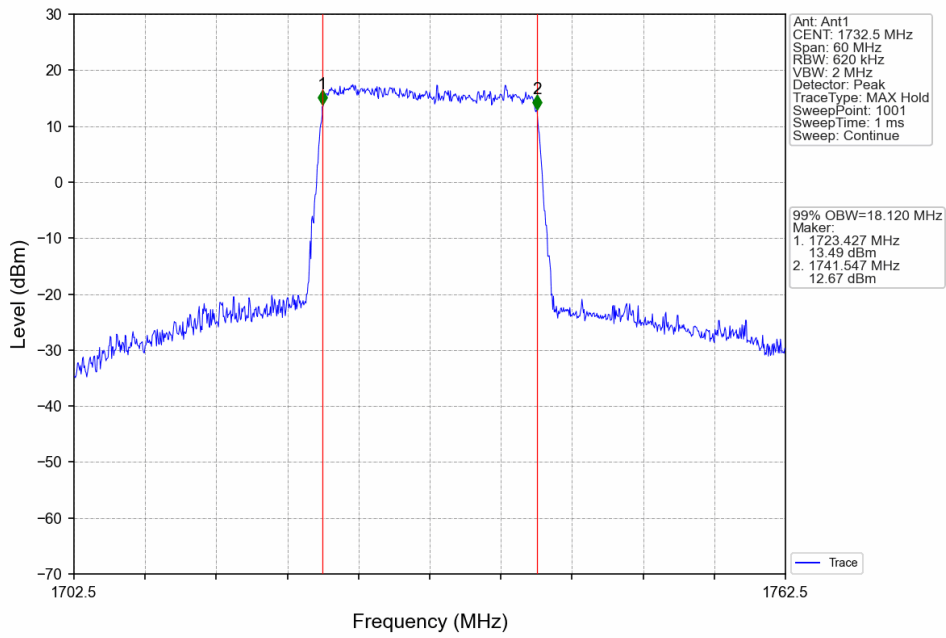
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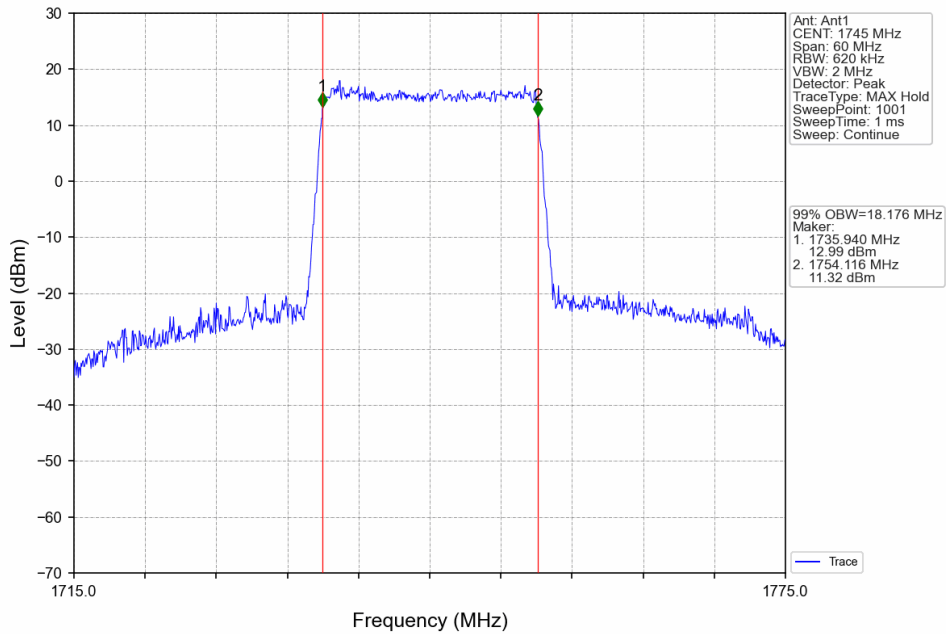
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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

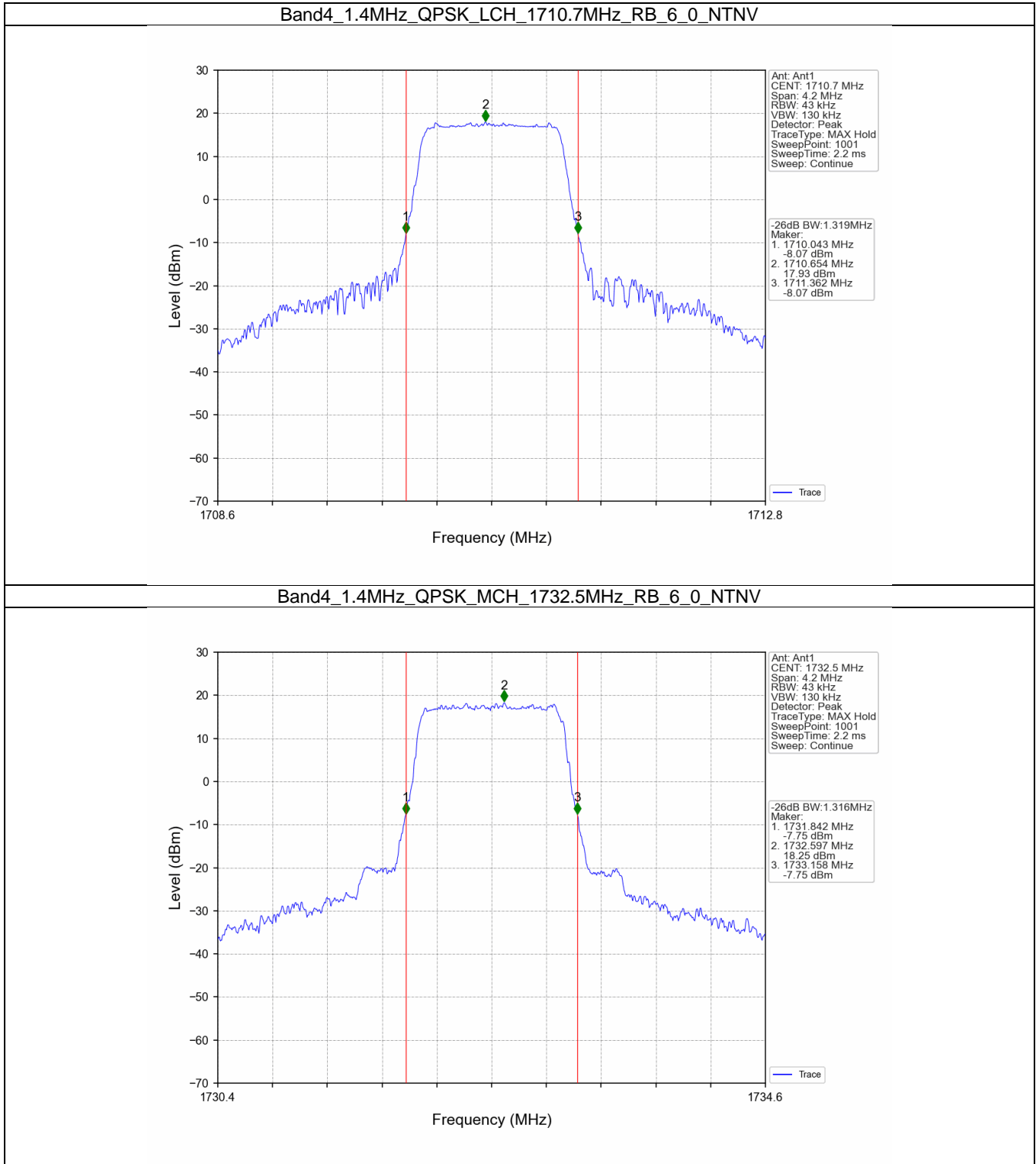


4.2 Band4_XDB

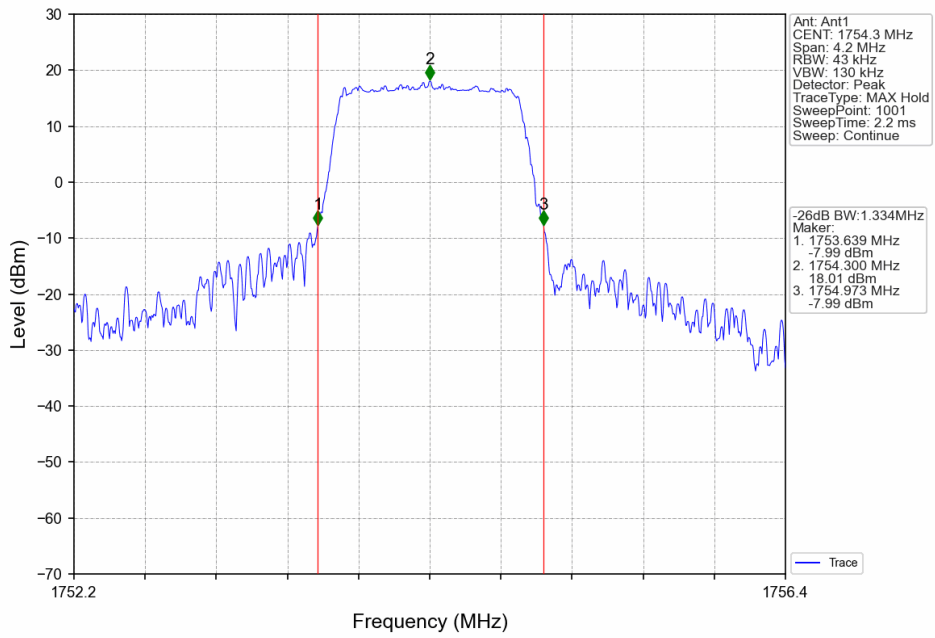
4.2.1 Test Result

Band: 4 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.319	Pass
		1732.5	6	0	1.316	Pass
		1754.3	6	0	1.334	Pass
	16QAM	1710.7	6	0	1.325	Pass
		1732.5	6	0	1.322	Pass
		1754.3	6	0	1.412	Pass
3	QPSK	1711.5	15	0	2.998	Pass
		1732.5	15	0	3.011	Pass
		1753.5	15	0	3.007	Pass
	16QAM	1711.5	15	0	3.007	Pass
		1732.5	15	0	2.992	Pass
		1753.5	15	0	2.985	Pass
5	QPSK	1712.5	25	0	5.052	Pass
		1732.5	25	0	5.031	Pass
		1752.5	25	0	4.968	Pass
	16QAM	1712.5	25	0	5.020	Pass
		1732.5	25	0	5.017	Pass
		1752.5	25	0	5.018	Pass
10	QPSK	1715	50	0	9.938	Pass
		1732.5	50	0	9.944	Pass
		1750	50	0	9.956	Pass
	16QAM	1715	50	0	9.943	Pass
		1732.5	50	0	9.910	Pass
		1750	50	0	9.868	Pass
15	QPSK	1717.5	75	0	14.895	Pass
		1732.5	75	0	14.859	Pass
		1747.5	75	0	15.017	Pass
	16QAM	1717.5	75	0	14.912	Pass
		1732.5	75	0	14.962	Pass
		1747.5	75	0	14.962	Pass
20	QPSK	1720	100	0	19.939	Pass
		1732.5	100	0	19.699	Pass
		1745	100	0	19.687	Pass
	16QAM	1720	100	0	19.767	Pass
		1732.5	100	0	19.863	Pass
		1745	100	0	19.773	Pass

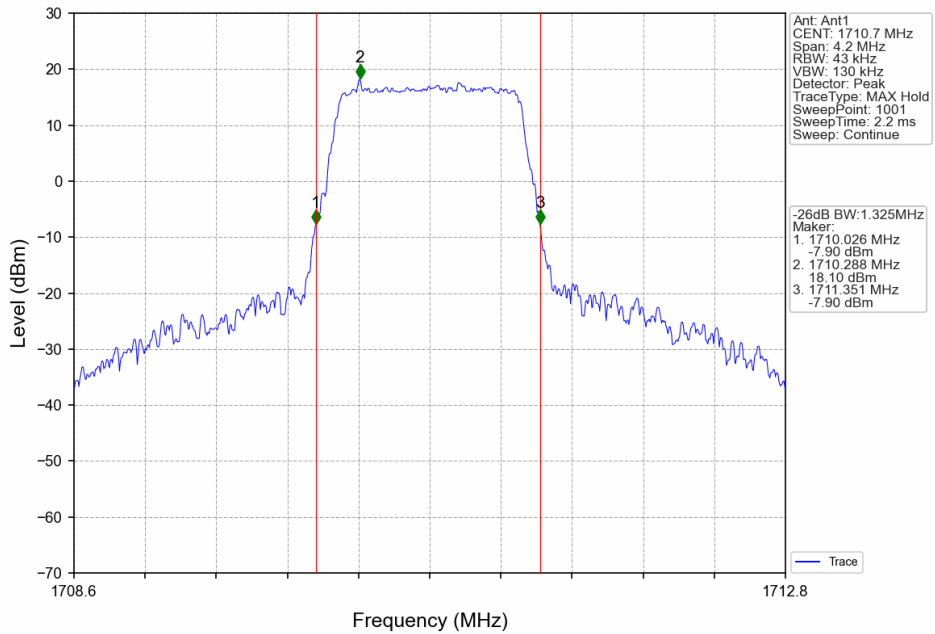
4.2.2 Test Graph



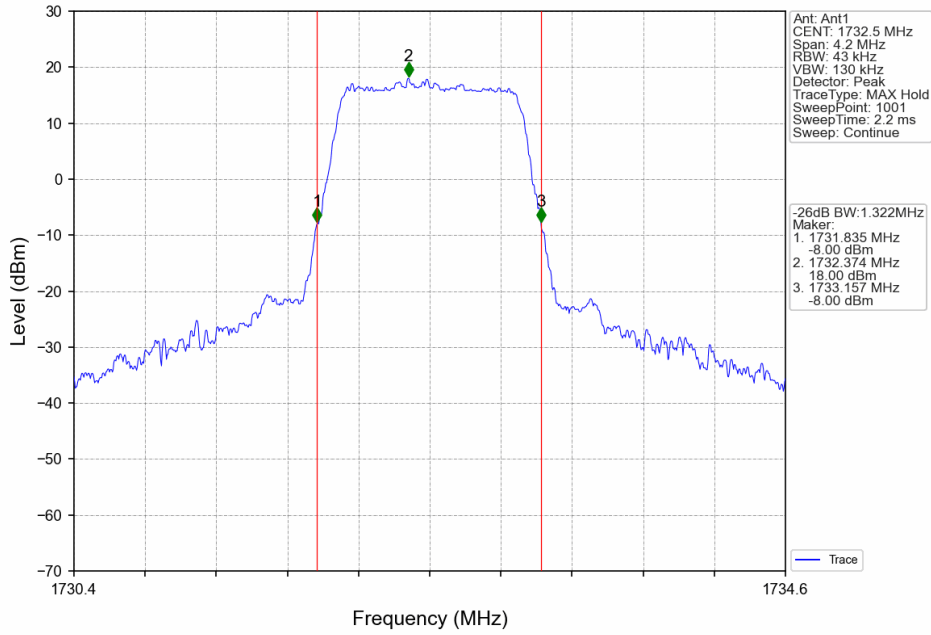
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



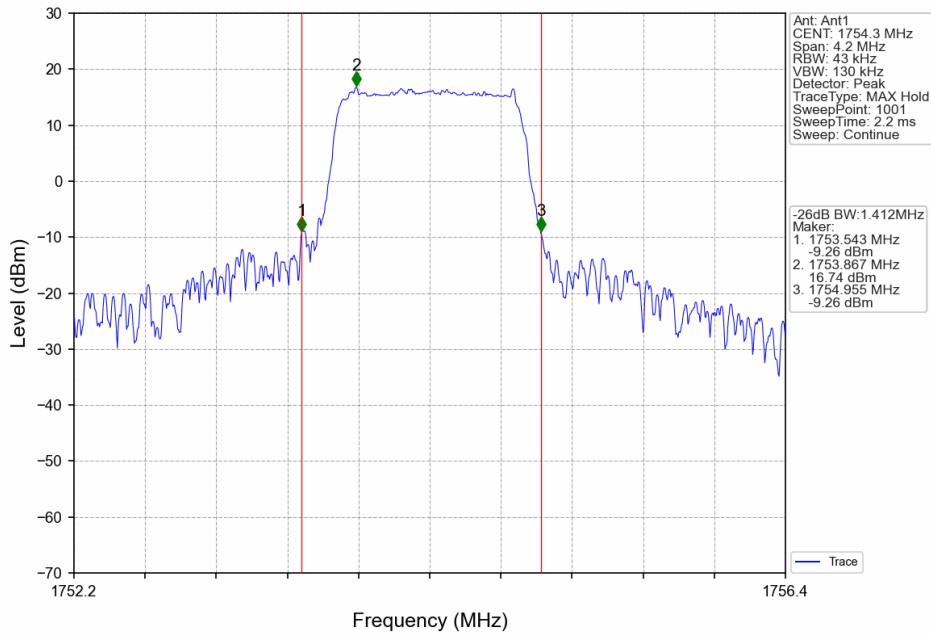
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



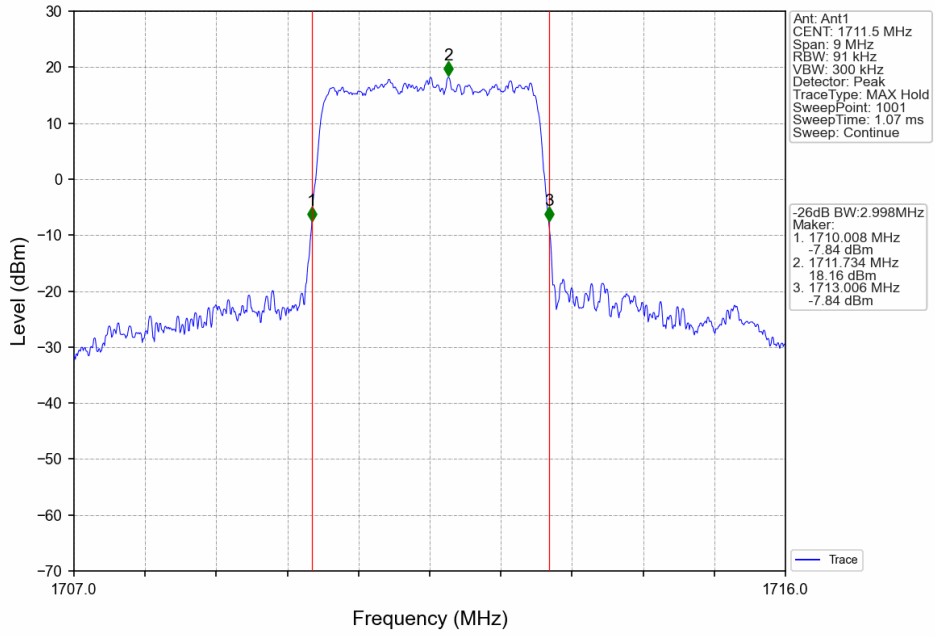
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



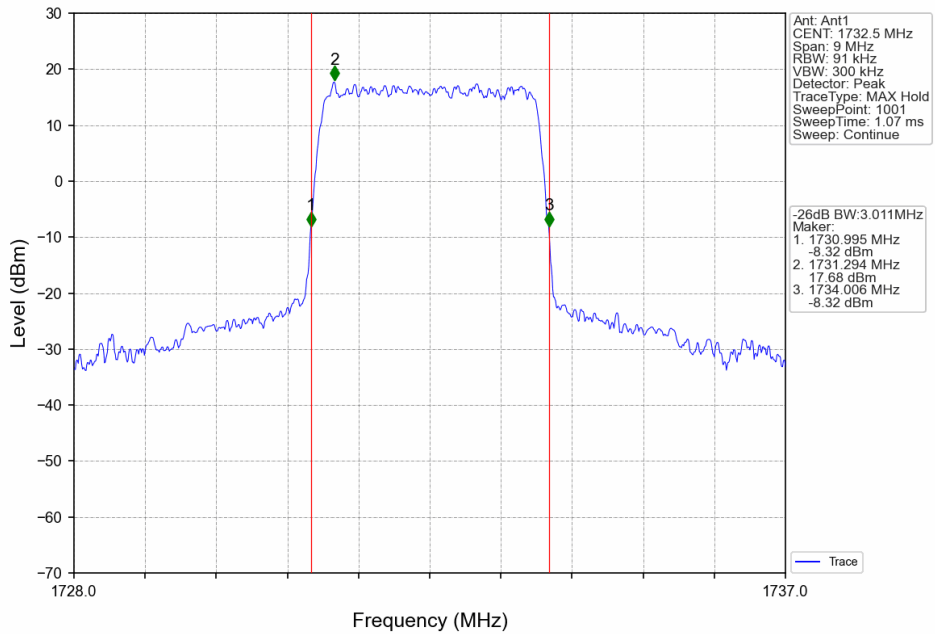
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



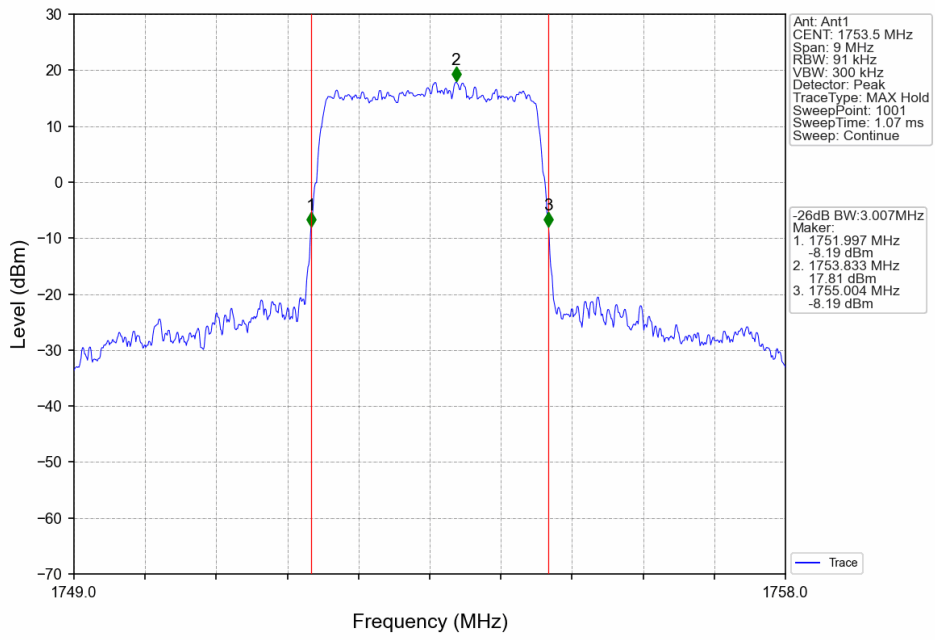
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



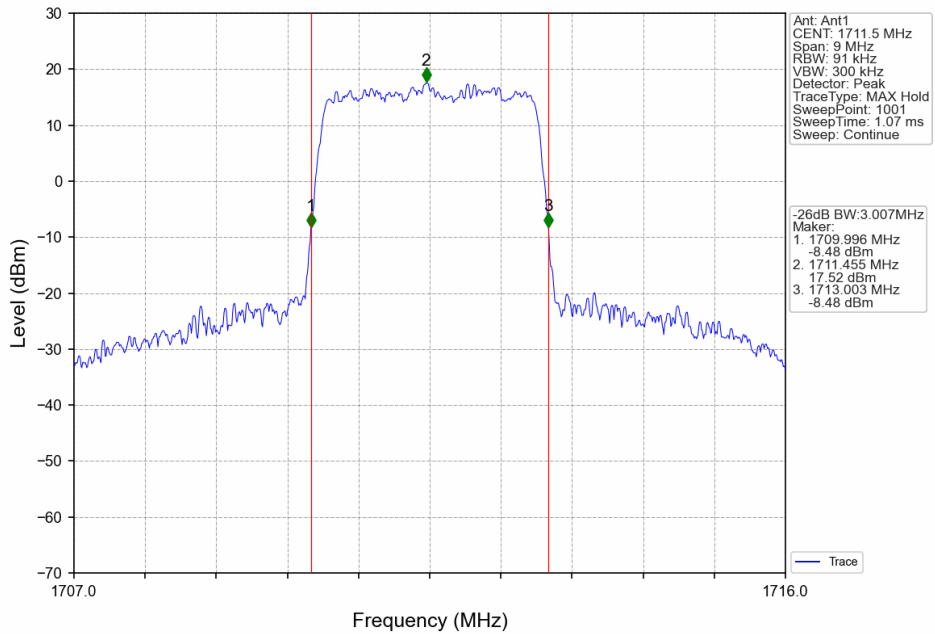
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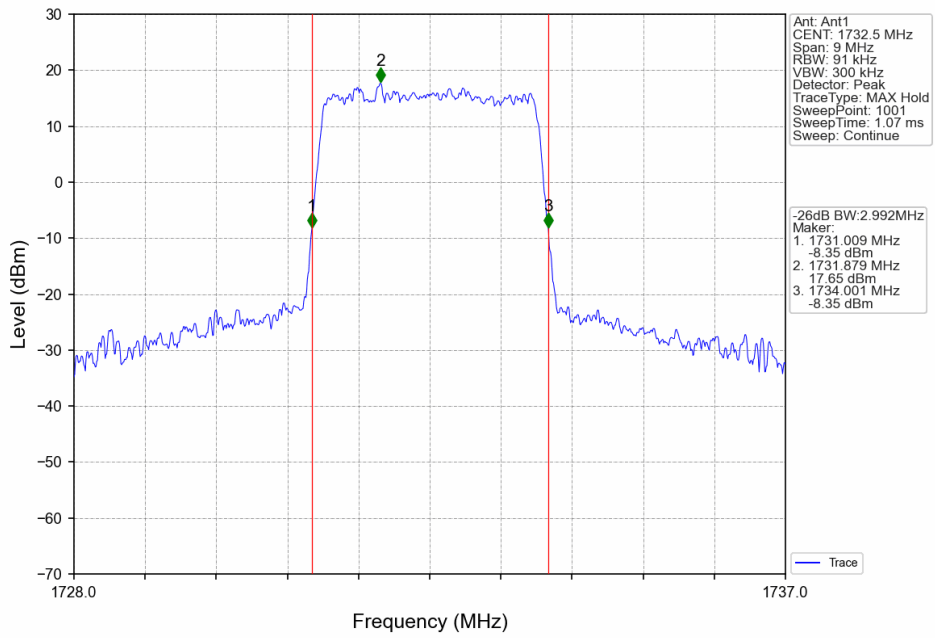
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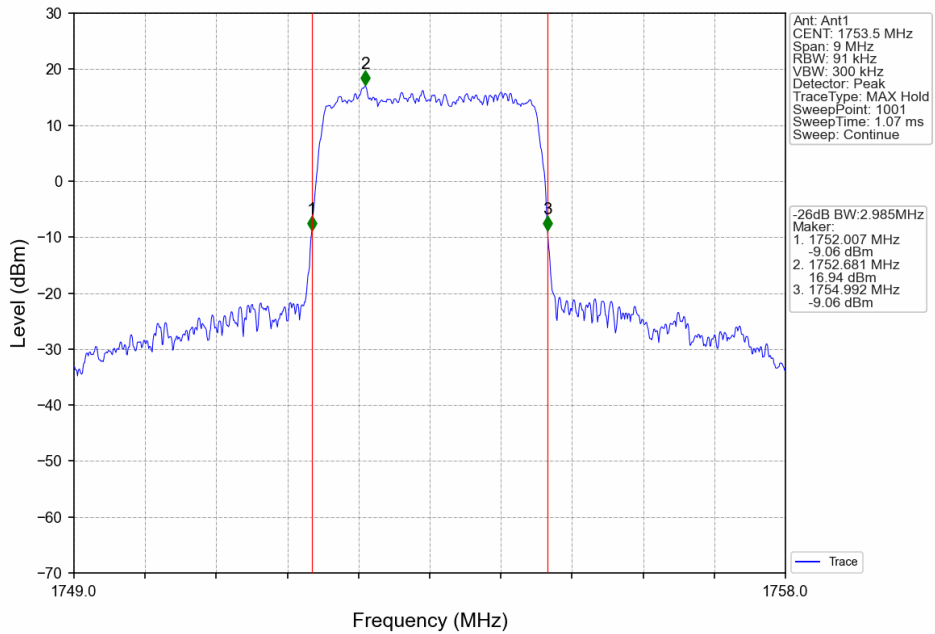
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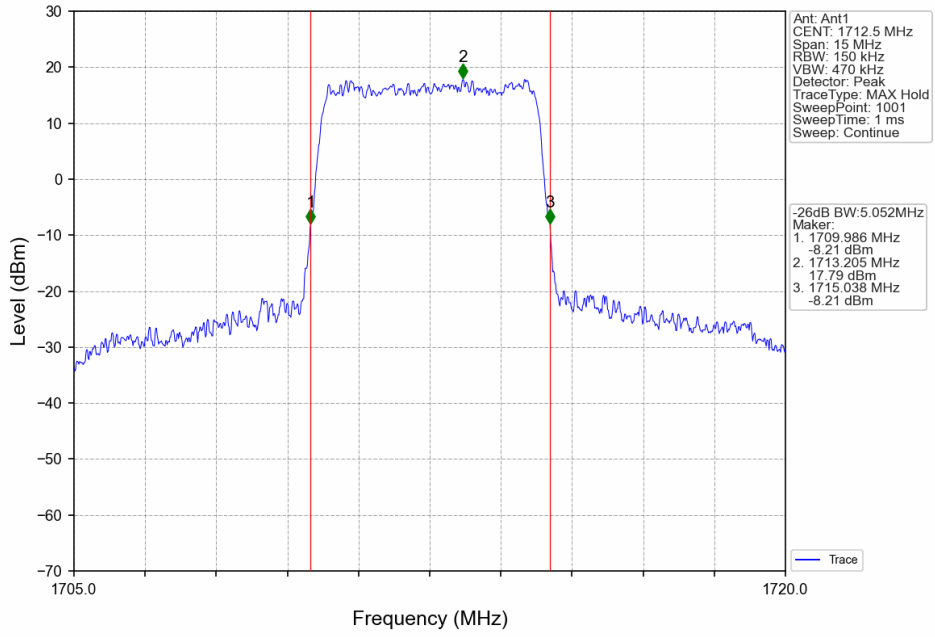
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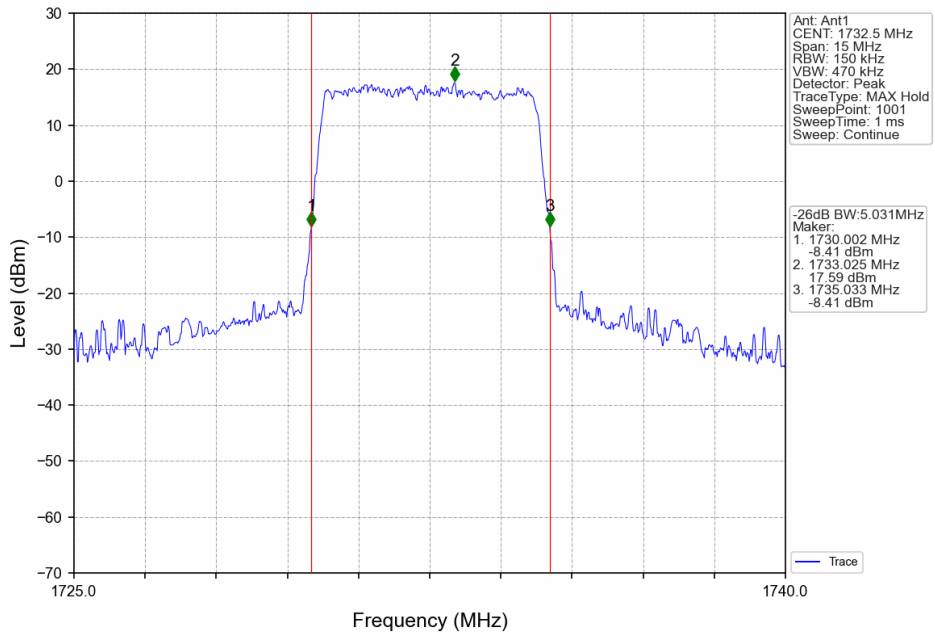
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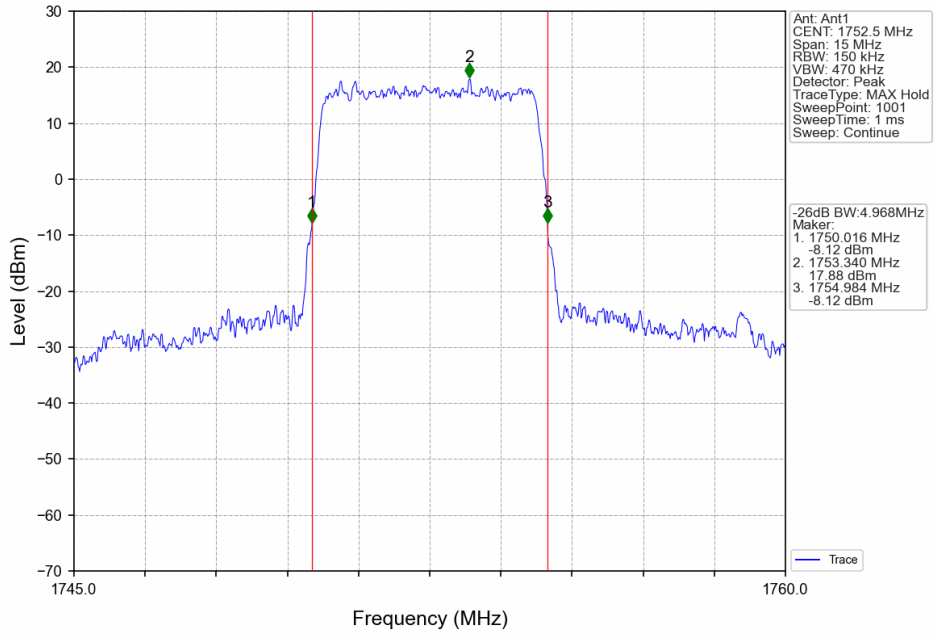
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



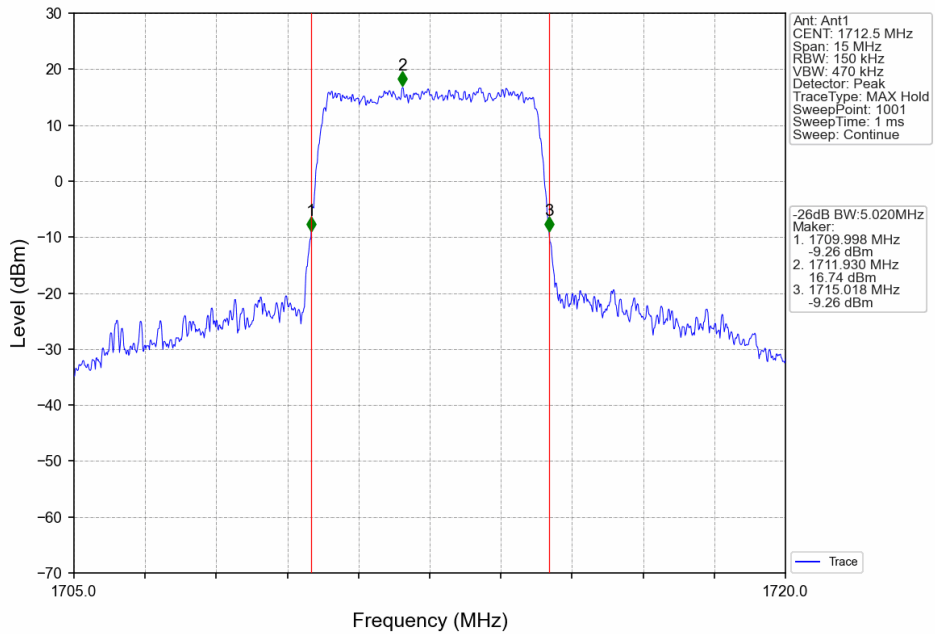
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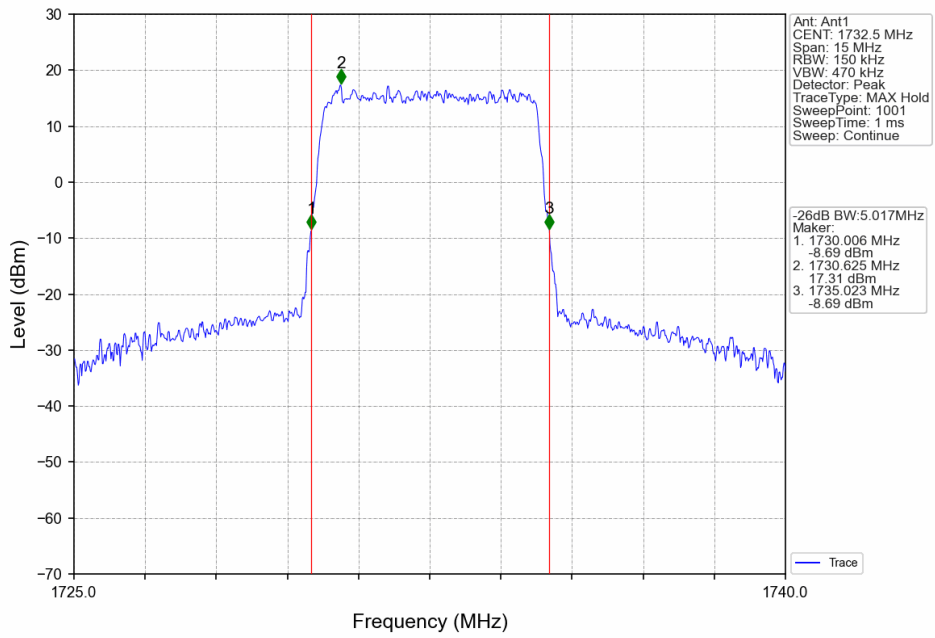
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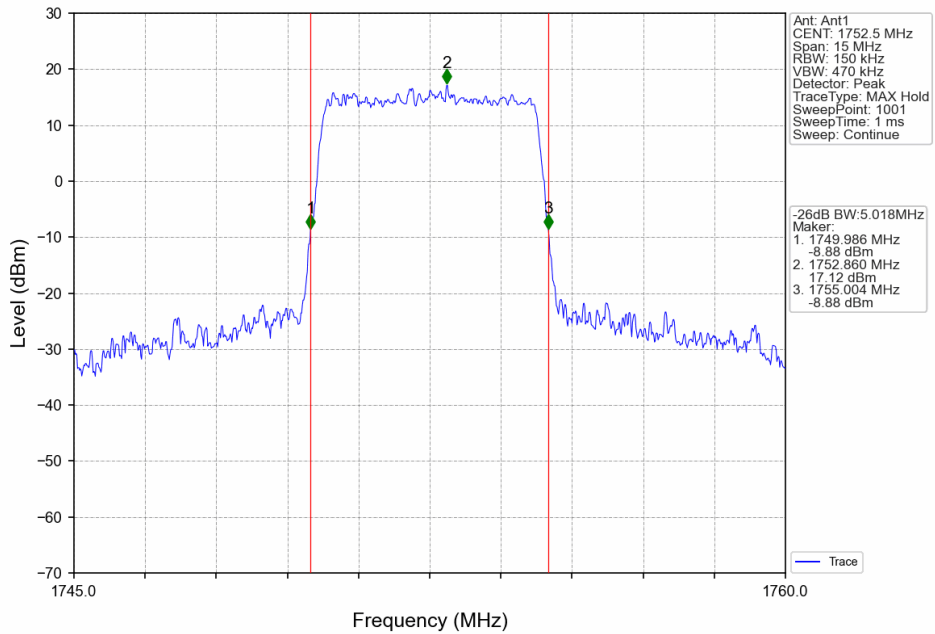
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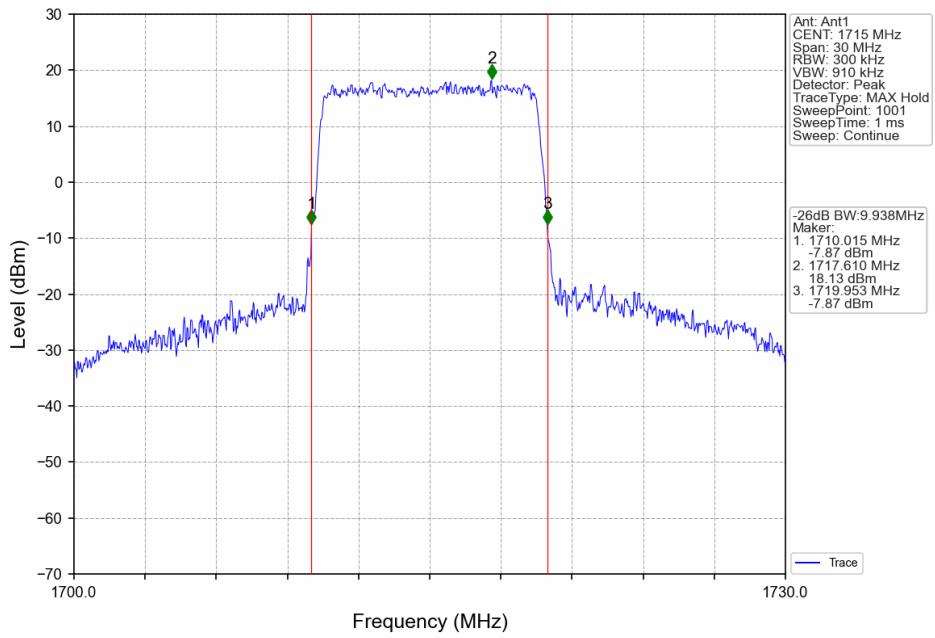
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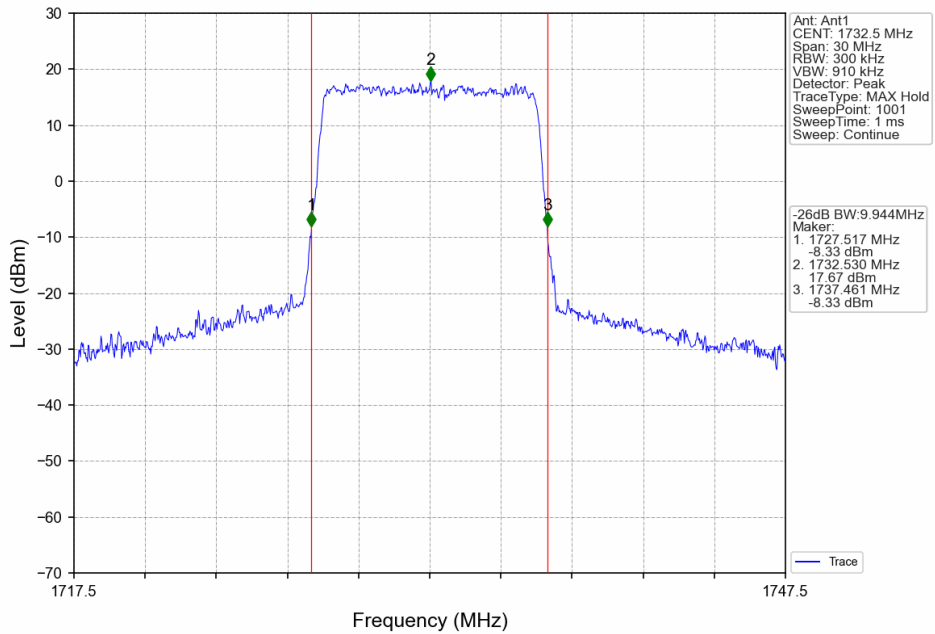
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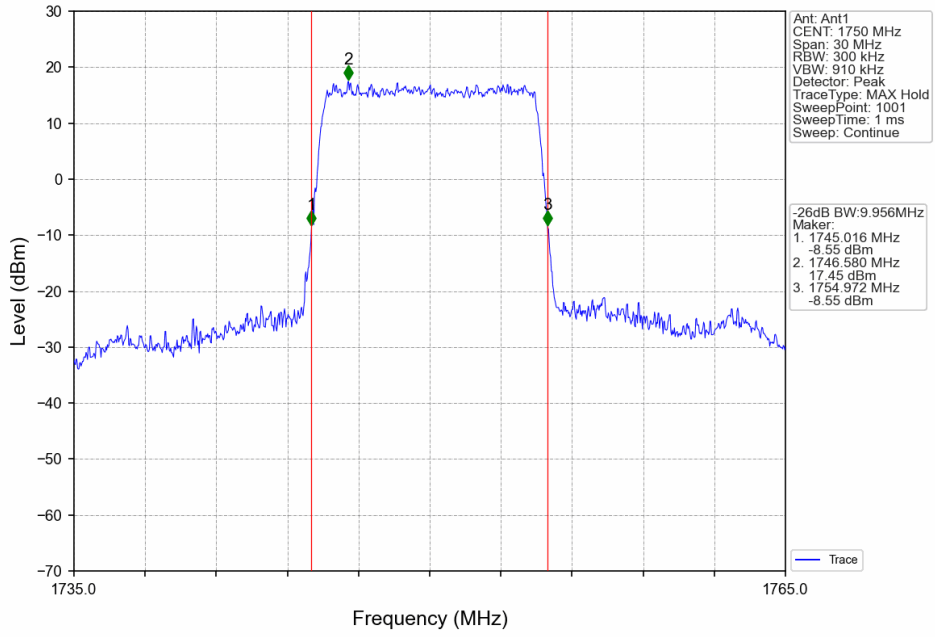
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



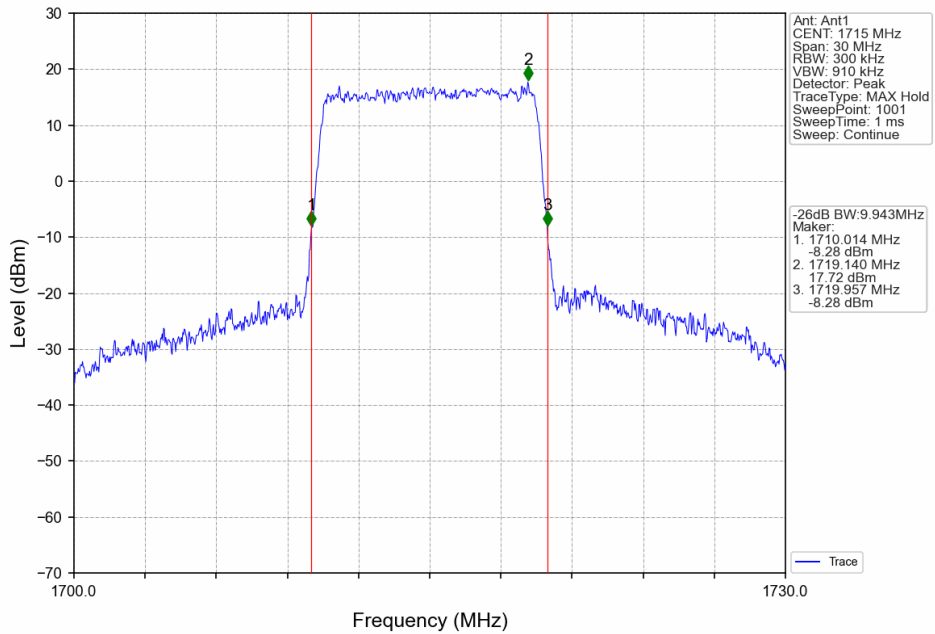
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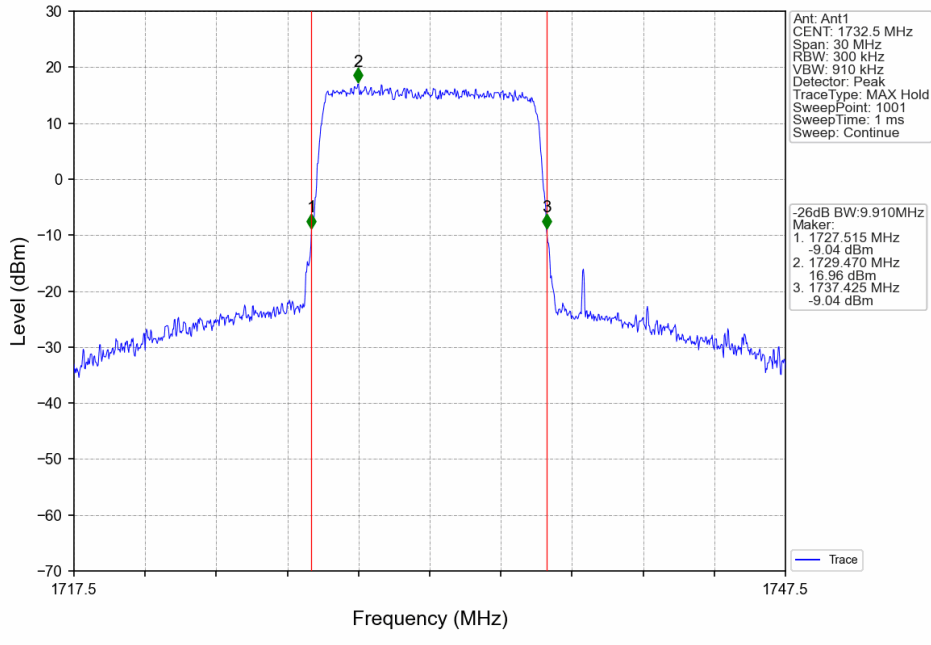
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



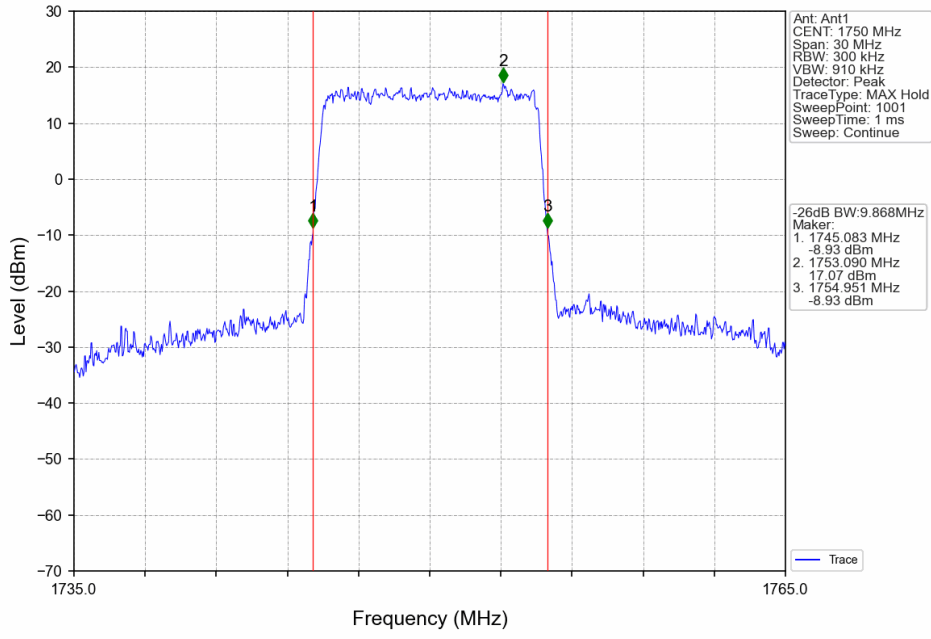
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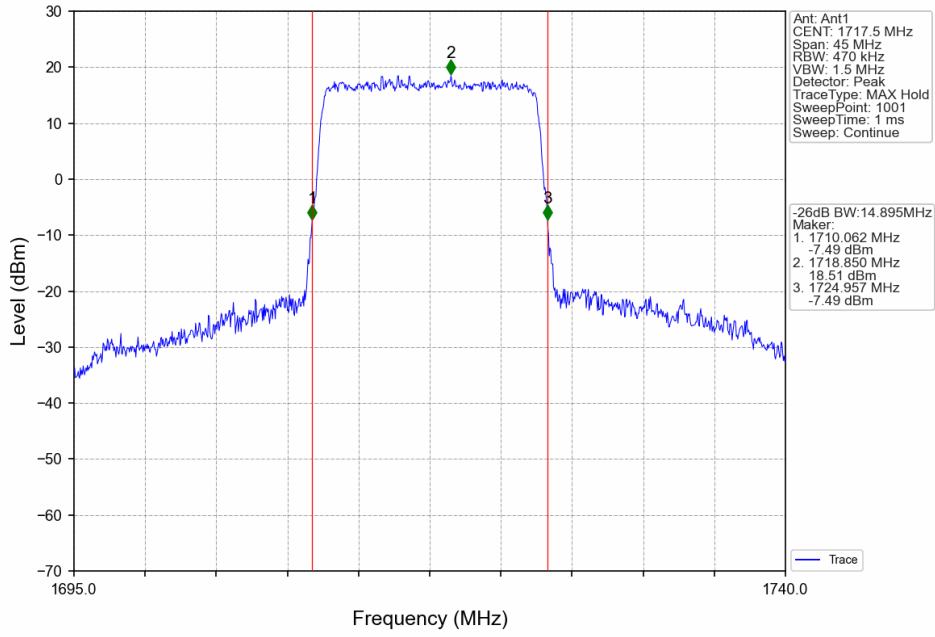
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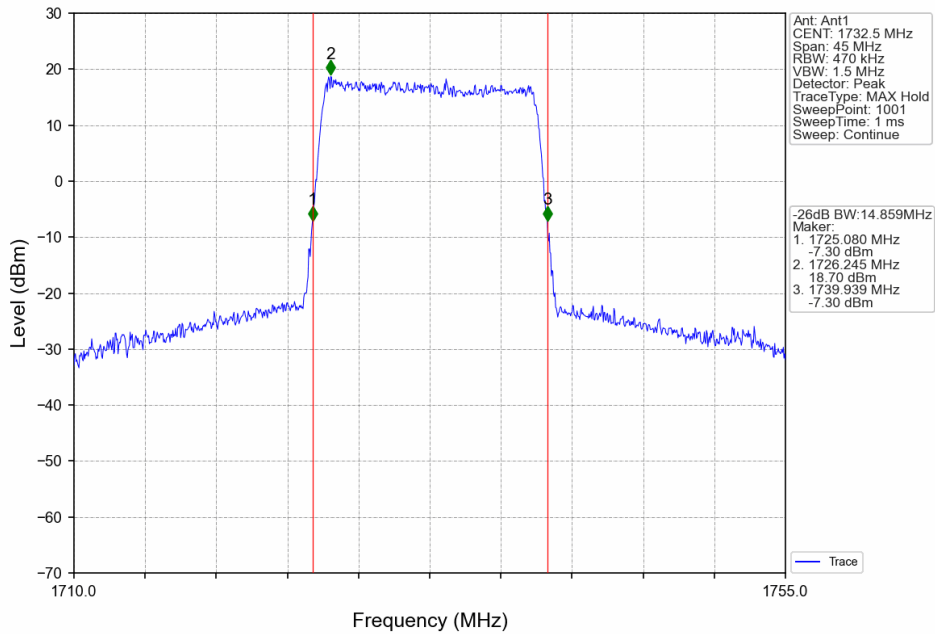
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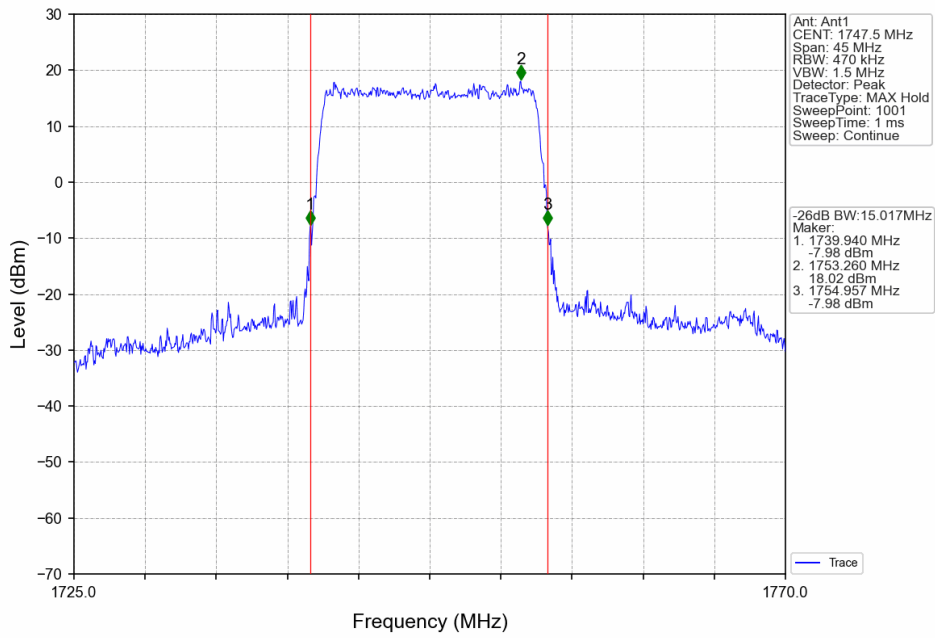
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



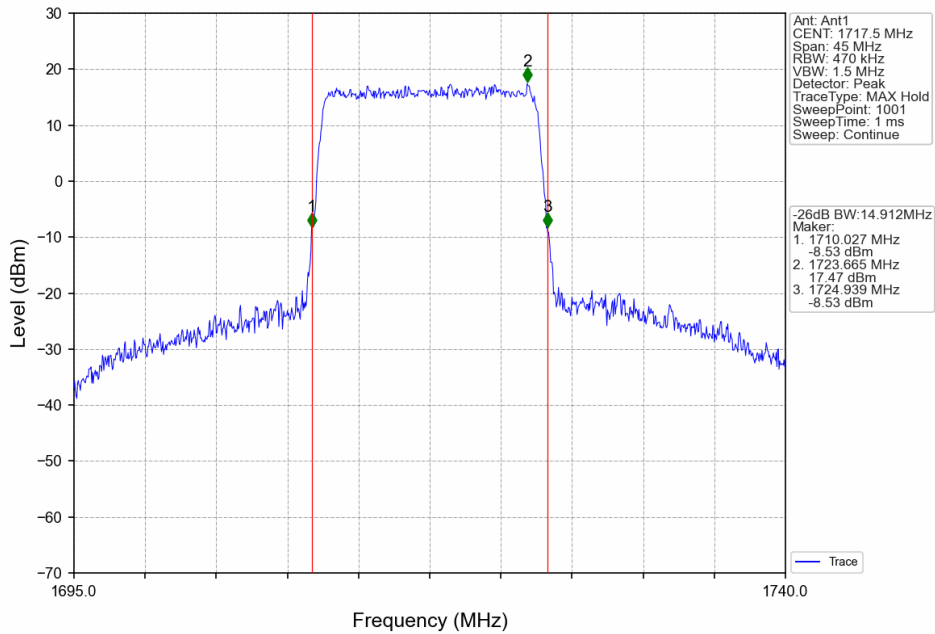
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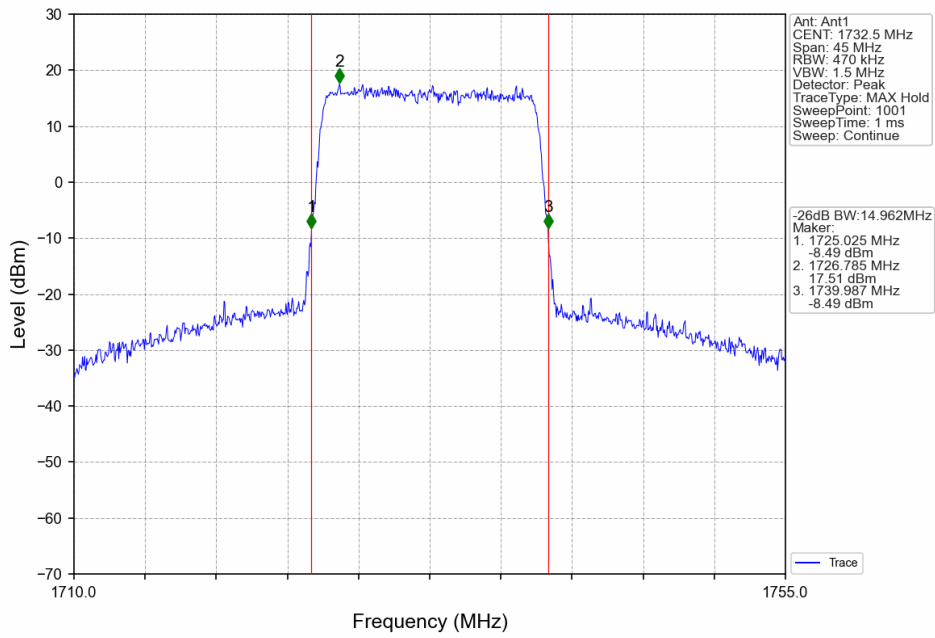
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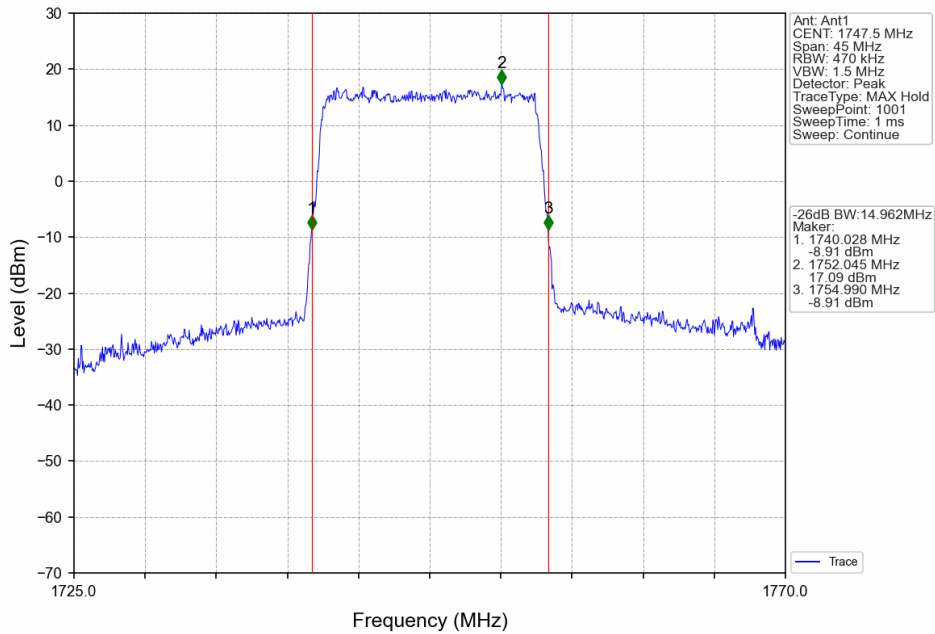
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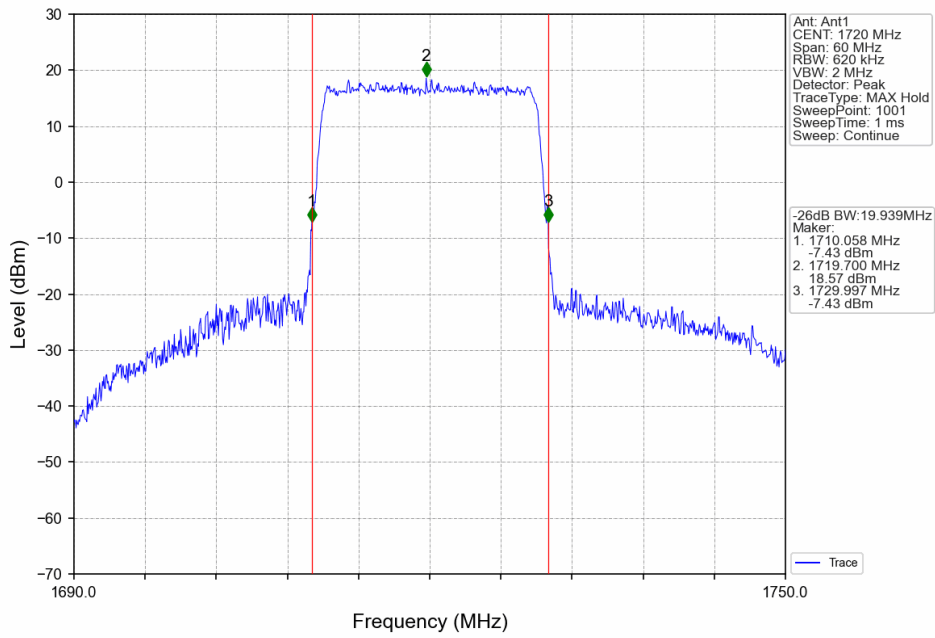
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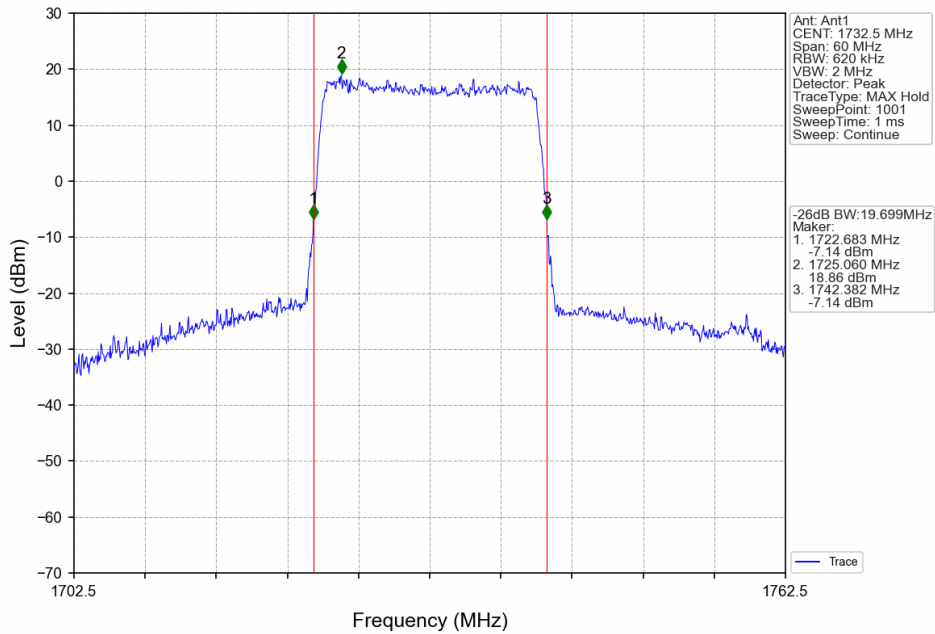
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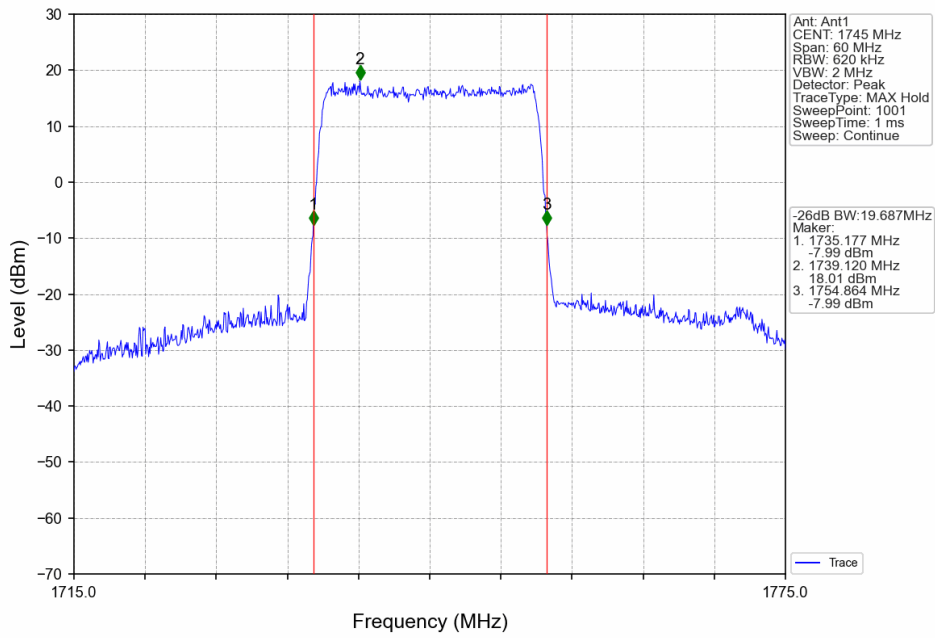
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



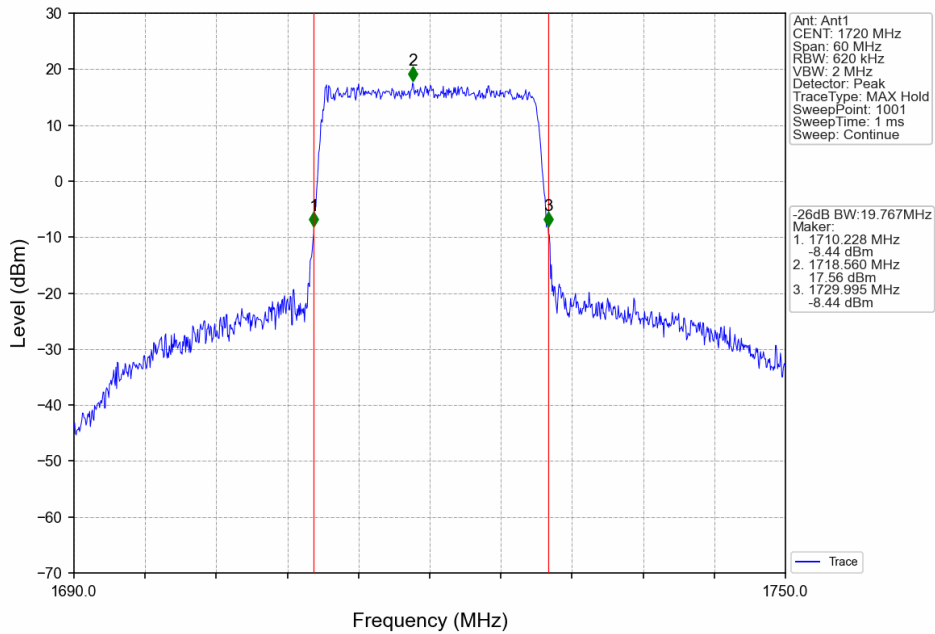
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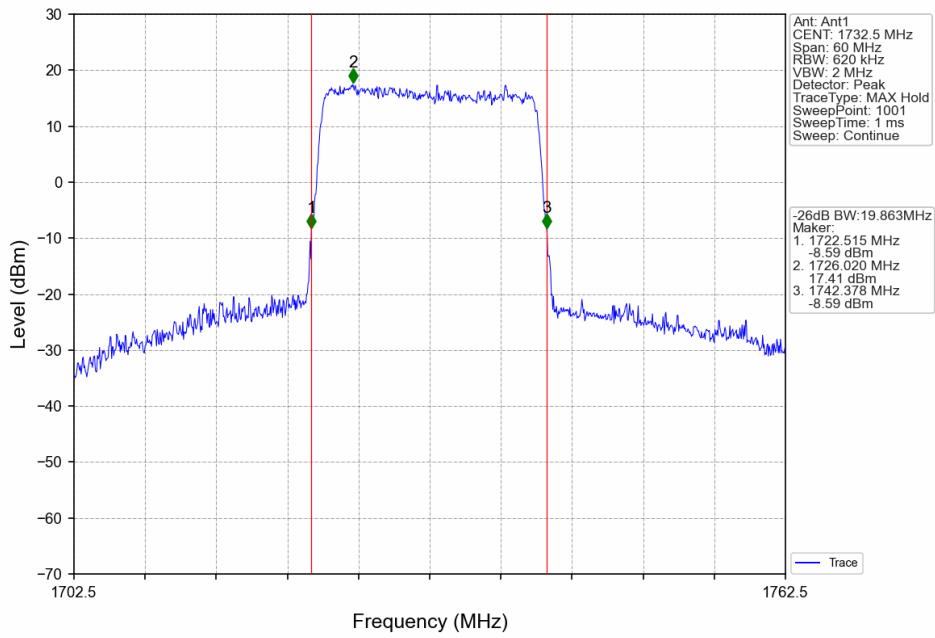
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



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

