

1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	19.82	1.18	21.00	<=30	Pass
			2	19.96	1.18	21.14	<=30	Pass
			5	19.75	1.18	20.93	<=30	Pass
		3	0	19.76	1.18	20.94	<=30	Pass
			2	19.83	1.18	21.01	<=30	Pass
			3	19.81	1.18	20.99	<=30	Pass
		6	0	18.90	1.18	20.08	<=30	Pass
	1732.5	1	0	20.07	1.18	21.25	<=30	Pass
			2	20.21	1.18	21.39	<=30	Pass
			5	20.13	1.18	21.31	<=30	Pass
		3	0	20.08	1.18	21.26	<=30	Pass
			2	20.17	1.18	21.35	<=30	Pass
			3	20.15	1.18	21.33	<=30	Pass
	6	0	19.24	1.18	20.42	<=30	Pass	
	1754.3	1	0	20.07	1.18	21.25	<=30	Pass
			2	19.59	1.18	20.77	<=30	Pass
			5	19.70	1.18	20.88	<=30	Pass
		3	0	19.85	1.18	21.03	<=30	Pass
			2	19.84	1.18	21.02	<=30	Pass
			3	19.67	1.18	20.85	<=30	Pass
		6	0	18.85	1.18	20.03	<=30	Pass
16QAM	1710.7	1	0	18.84	1.18	20.02	<=30	Pass
			2	18.88	1.18	20.06	<=30	Pass
			5	18.68	1.18	19.86	<=30	Pass
		3	0	19.04	1.18	20.22	<=30	Pass
			2	18.90	1.18	20.08	<=30	Pass
			3	18.76	1.18	19.94	<=30	Pass
		6	0	17.91	1.18	19.09	<=30	Pass
	1732.5	1	0	19.06	1.18	20.24	<=30	Pass
			2	19.24	1.18	20.42	<=30	Pass
			5	19.20	1.18	20.38	<=30	Pass
		3	0	19.30	1.18	20.48	<=30	Pass
			2	19.20	1.18	20.38	<=30	Pass
			3	19.18	1.18	20.36	<=30	Pass
	6	0	18.15	1.18	19.33	<=30	Pass	
	1754.3	1	0	18.45	1.18	19.63	<=30	Pass
			2	18.98	1.18	20.16	<=30	Pass
			5	18.80	1.18	19.98	<=30	Pass
		3	0	18.81	1.18	19.99	<=30	Pass
2			18.94	1.18	20.12	<=30	Pass	
3			18.89	1.18	20.07	<=30	Pass	
6		0	17.80	1.18	18.98	<=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	20.10	1.18	21.28	<=30	Pass
			7	19.98	1.18	21.16	<=30	Pass
			14	19.80	1.18	20.98	<=30	Pass
		8	0	19.05	1.18	20.23	<=30	Pass
			4	18.97	1.18	20.15	<=30	Pass
			7	19.03	1.18	20.21	<=30	Pass
		15	0	19.09	1.18	20.27	<=30	Pass
	1732.5	1	0	20.04	1.18	21.22	<=30	Pass
			7	20.32	1.18	21.50	<=30	Pass
			14	20.43	1.18	21.61	<=30	Pass
		8	0	19.15	1.18	20.33	<=30	Pass
			4	19.18	1.18	20.36	<=30	Pass
			7	19.22	1.18	20.40	<=30	Pass
		15	0	19.14	1.18	20.32	<=30	Pass
	1753.5	1	0	19.72	1.18	20.90	<=30	Pass
			7	19.80	1.18	20.98	<=30	Pass
			14	19.57	1.18	20.75	<=30	Pass
		8	0	18.70	1.18	19.88	<=30	Pass
			4	18.66	1.18	19.84	<=30	Pass
			7	18.69	1.18	19.87	<=30	Pass
		15	0	18.74	1.18	19.92	<=30	Pass
16QAM	1711.5	1	0	19.05	1.18	20.23	<=30	Pass
			7	19.02	1.18	20.20	<=30	Pass
			14	18.84	1.18	20.02	<=30	Pass
		8	0	18.21	1.18	19.39	<=30	Pass
			4	18.07	1.18	19.25	<=30	Pass
			7	18.13	1.18	19.31	<=30	Pass
		15	0	18.02	1.18	19.20	<=30	Pass
	1732.5	1	0	19.47	1.18	20.65	<=30	Pass
			7	19.71	1.18	20.89	<=30	Pass
			14	19.45	1.18	20.63	<=30	Pass
		8	0	18.27	1.18	19.45	<=30	Pass
			4	18.40	1.18	19.58	<=30	Pass
			7	18.35	1.18	19.53	<=30	Pass
		15	0	18.27	1.18	19.45	<=30	Pass
	1753.5	1	0	19.61	1.18	20.79	<=30	Pass
			7	19.03	1.18	20.21	<=30	Pass
			14	18.90	1.18	20.08	<=30	Pass
		8	0	18.03	1.18	19.21	<=30	Pass
			4	18.08	1.18	19.26	<=30	Pass
			7	17.76	1.18	18.94	<=30	Pass
		15	0	17.71	1.18	18.89	<=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	19.89	1.18	21.07	<=30	Pass

16QAM	1732.5	12	13	19.65	1.18	20.83	<=30	Pass
			24	19.56	1.18	20.74	<=30	Pass
			0	18.89	1.18	20.07	<=30	Pass
		6	6	18.83	1.18	20.01	<=30	Pass
			13	18.71	1.18	19.89	<=30	Pass
			0	18.82	1.18	20.00	<=30	Pass
		25	0	18.82	1.18	20.00	<=30	Pass
			0	19.96	1.18	21.14	<=30	Pass
			13	20.19	1.18	21.37	<=30	Pass
		1	24	20.33	1.18	21.51	<=30	Pass
			0	19.04	1.18	20.22	<=30	Pass
			6	19.20	1.18	20.38	<=30	Pass
16QAM	1752.5	12	13	19.16	1.18	20.34	<=30	Pass
			0	19.00	1.18	20.18	<=30	Pass
			0	19.62	1.18	20.80	<=30	Pass
		1	13	19.77	1.18	20.95	<=30	Pass
			24	19.74	1.18	20.92	<=30	Pass
			0	18.98	1.18	20.16	<=30	Pass
		12	6	18.93	1.18	20.11	<=30	Pass
			13	18.83	1.18	20.01	<=30	Pass
			0	18.91	1.18	20.09	<=30	Pass
	1712.5	25	0	18.27	1.18	19.45	<=30	Pass
			13	18.27	1.18	19.45	<=30	Pass
			24	18.16	1.18	19.34	<=30	Pass
		1	0	17.89	1.18	19.07	<=30	Pass
			6	17.83	1.18	19.01	<=30	Pass
			13	17.55	1.18	18.73	<=30	Pass
		12	0	17.83	1.18	19.01	<=30	Pass
			0	18.69	1.18	19.87	<=30	Pass
			13	19.28	1.18	20.46	<=30	Pass
	1732.5	1	24	19.10	1.18	20.28	<=30	Pass
			0	17.96	1.18	19.14	<=30	Pass
			6	18.25	1.18	19.43	<=30	Pass
		12	13	18.22	1.18	19.40	<=30	Pass
			0	18.18	1.18	19.36	<=30	Pass
			0	18.68	1.18	19.86	<=30	Pass
		25	13	18.95	1.18	20.13	<=30	Pass
			24	18.89	1.18	20.07	<=30	Pass
			0	17.85	1.18	19.03	<=30	Pass
	1752.5	12	6	17.61	1.18	18.79	<=30	Pass
			13	17.59	1.18	18.77	<=30	Pass
			0	17.71	1.18	18.89	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B4_10MHz_EIRP

1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	20.09	1.18	21.27	<=30	Pass
			25	19.93	1.18	21.11	<=30	Pass
			49	19.46	1.18	20.64	<=30	Pass
		25	0	18.93	1.18	20.11	<=30	Pass
			13	18.75	1.18	19.93	<=30	Pass
			25	18.68	1.18	19.86	<=30	Pass
		50	0	18.90	1.18	20.08	<=30	Pass
			0	19.78	1.18	20.96	<=30	Pass
	1732.5	1	25	20.08	1.18	21.26	<=30	Pass

		25	49	20.15	1.18	21.33	<=30	Pass		
			0	18.76	1.18	19.94	<=30	Pass		
			13	19.04	1.18	20.22	<=30	Pass		
			25	19.09	1.18	20.27	<=30	Pass		
		50	0	18.91	1.18	20.09	<=30	Pass		
	1750	1	0	20.00	1.18	21.18	<=30	Pass		
			25	19.69	1.18	20.87	<=30	Pass		
			49	19.69	1.18	20.87	<=30	Pass		
		25	0	18.90	1.18	20.08	<=30	Pass		
			13	18.69	1.18	19.87	<=30	Pass		
			25	18.73	1.18	19.91	<=30	Pass		
		50	0	18.82	1.18	20.00	<=30	Pass		
		16QAM	1715	1	0	18.87	1.18	20.05	<=30	Pass
	25				18.52	1.18	19.70	<=30	Pass	
	49				18.15	1.18	19.33	<=30	Pass	
	25			0	18.06	1.18	19.24	<=30	Pass	
13				17.96	1.18	19.14	<=30	Pass		
25				17.73	1.18	18.91	<=30	Pass		
50	0			17.88	1.18	19.06	<=30	Pass		
1732.5	1			0	18.81	1.18	19.99	<=30	Pass	
				25	19.95	1.18	21.13	<=30	Pass	
			49	19.48	1.18	20.66	<=30	Pass		
	25		0	17.73	1.18	18.91	<=30	Pass		
			13	18.14	1.18	19.32	<=30	Pass		
			25	18.28	1.18	19.46	<=30	Pass		
	50		0	18.00	1.18	19.18	<=30	Pass		
	1750		1	0	19.21	1.18	20.39	<=30	Pass	
				25	18.83	1.18	20.01	<=30	Pass	
49				18.49	1.18	19.67	<=30	Pass		
25			0	17.82	1.18	19.00	<=30	Pass		
			13	17.69	1.18	18.87	<=30	Pass		
			25	17.63	1.18	18.81	<=30	Pass		
50			0	17.84	1.18	19.02	<=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	19.87	1.18	21.05	<=30	Pass
			38	19.36	1.18	20.54	<=30	Pass
			74	19.48	1.18	20.66	<=30	Pass
		36	0	18.78	1.18	19.96	<=30	Pass
			18	18.64	1.18	19.82	<=30	Pass
			39	18.52	1.18	19.70	<=30	Pass
		75	0	18.74	1.18	19.92	<=30	Pass
	1732.5	1	0	19.75	1.18	20.93	<=30	Pass
			38	20.01	1.18	21.19	<=30	Pass
			74	20.13	1.18	21.31	<=30	Pass
		36	0	18.80	1.18	19.98	<=30	Pass
			18	18.98	1.18	20.16	<=30	Pass
			39	19.10	1.18	20.28	<=30	Pass
		75	0	18.80	1.18	19.98	<=30	Pass
	1747.5	1	0	20.04	1.18	21.22	<=30	Pass
			38	19.66	1.18	20.84	<=30	Pass
			74	19.45	1.18	20.63	<=30	Pass

		36	0	18.95	1.18	20.13	<=30	Pass		
			18	18.76	1.18	19.94	<=30	Pass		
			39	18.64	1.18	19.82	<=30	Pass		
		75	0	18.76	1.18	19.94	<=30	Pass		
16QAM	1717.5	1	0	18.97	1.18	20.15	<=30	Pass		
			38	18.10	1.18	19.28	<=30	Pass		
			74	18.27	1.18	19.45	<=30	Pass		
		36	0	17.74	1.18	18.92	<=30	Pass		
			18	17.50	1.18	18.68	<=30	Pass		
			39	17.37	1.18	18.55	<=30	Pass		
		75	0	17.66	1.18	18.84	<=30	Pass		
		1732.5	1	0	19.30	1.18	20.48	<=30	Pass	
				38	20.05	1.18	21.23	<=30	Pass	
	74			19.51	1.18	20.69	<=30	Pass		
	36		0	17.49	1.18	18.67	<=30	Pass		
			18	17.99	1.18	19.17	<=30	Pass		
			39	18.18	1.18	19.36	<=30	Pass		
	75		0	17.92	1.18	19.10	<=30	Pass		
	1747.5		1	0	19.53	1.18	20.71	<=30	Pass	
				38	19.14	1.18	20.32	<=30	Pass	
		74		18.31	1.18	19.49	<=30	Pass		
		36	0	17.96	1.18	19.14	<=30	Pass		
			18	17.75	1.18	18.93	<=30	Pass		
			39	17.57	1.18	18.75	<=30	Pass		
		75	0	17.69	1.18	18.87	<=30	Pass		
		Note1: EIRP=Conducted Power+Antenna Gain								

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1720	1	0	19.82	1.18	21.00	<=30	Pass		
			50	19.40	1.18	20.58	<=30	Pass		
			99	19.76	1.18	20.94	<=30	Pass		
		50	0	18.70	1.18	19.88	<=30	Pass		
			25	18.54	1.18	19.72	<=30	Pass		
			50	18.70	1.18	19.88	<=30	Pass		
		100	0	18.70	1.18	19.88	<=30	Pass		
		1732.5	1	0	19.70	1.18	20.88	<=30	Pass	
				50	20.16	1.18	21.34	<=30	Pass	
	99			20.15	1.18	21.33	<=30	Pass		
	50		0	18.65	1.18	19.83	<=30	Pass		
			25	18.98	1.18	20.16	<=30	Pass		
			50	19.06	1.18	20.24	<=30	Pass		
	100		0	18.82	1.18	20.00	<=30	Pass		
	1745		1	0	19.93	1.18	21.11	<=30	Pass	
				50	20.00	1.18	21.18	<=30	Pass	
		99		19.28	1.18	20.46	<=30	Pass		
		50	0	19.03	1.18	20.21	<=30	Pass		
			25	18.83	1.18	20.01	<=30	Pass		
			50	18.51	1.18	19.69	<=30	Pass		
		100	0	18.83	1.18	20.01	<=30	Pass		
		16QAM	1720	1	0	19.31	1.18	20.49	<=30	Pass
					50	19.26	1.18	20.44	<=30	Pass
	99				19.60	1.18	20.78	<=30	Pass	
50	0			17.67	1.18	18.85	<=30	Pass		

		100	25	17.51	1.18	18.69	<=30	Pass	
			50	17.44	1.18	18.62	<=30	Pass	
			0	17.61	1.18	18.79	<=30	Pass	
	1732.5	1	0	18.66	1.18	19.84	<=30	Pass	
			50	19.12	1.18	20.30	<=30	Pass	
			99	19.06	1.18	20.24	<=30	Pass	
		50	0	17.51	1.18	18.69	<=30	Pass	
			25	18.04	1.18	19.22	<=30	Pass	
			50	18.08	1.18	19.26	<=30	Pass	
		100	0	17.73	1.18	18.91	<=30	Pass	
		1745	1	0	19.07	1.18	20.25	<=30	Pass
				50	19.51	1.18	20.69	<=30	Pass
	99			18.26	1.18	19.44	<=30	Pass	
	50		0	18.01	1.18	19.19	<=30	Pass	
			25	17.81	1.18	18.99	<=30	Pass	
			50	17.51	1.18	18.69	<=30	Pass	
	100		0	17.69	1.18	18.87	<=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	10.2	0.443	0.0003	-2.5 to 2.5	Pass
					12	0.958	0.0006	-2.5 to 2.5	Pass
					13.8	1.602	0.0009	-2.5 to 2.5	Pass
				-30	12	0.401	0.0002	-2.5 to 2.5	Pass
				-20	12	1.802	0.0011	-2.5 to 2.5	Pass
				-10	12	2.046	0.0012	-2.5 to 2.5	Pass
				0	12	1.788	0.0010	-2.5 to 2.5	Pass
				10	12	1.259	0.0007	-2.5 to 2.5	Pass
				30	12	2.446	0.0014	-2.5 to 2.5	Pass
				40	12	1.388	0.0008	-2.5 to 2.5	Pass
				50	12	0.958	0.0006	-2.5 to 2.5	Pass
	1732.5	6	0	20	10.2	-0.343	-0.0002	-2.5 to 2.5	Pass
					12	0.057	0.0000	-2.5 to 2.5	Pass
					13.8	-0.887	-0.0005	-2.5 to 2.5	Pass
				-30	12	0.029	0.0000	-2.5 to 2.5	Pass
				-20	12	-0.186	-0.0001	-2.5 to 2.5	Pass
				-10	12	0.086	0.0000	-2.5 to 2.5	Pass
				0	12	0.415	0.0002	-2.5 to 2.5	Pass
				10	12	0.601	0.0003	-2.5 to 2.5	Pass
				30	12	-0.300	-0.0002	-2.5 to 2.5	Pass
				40	12	-0.629	-0.0004	-2.5 to 2.5	Pass
				50	12	0.215	0.0001	-2.5 to 2.5	Pass
	1754.3	6	0	20	10.2	-2.503	-0.0014	-2.5 to 2.5	Pass
					12	-2.975	-0.0017	-2.5 to 2.5	Pass
					13.8	-2.933	-0.0017	-2.5 to 2.5	Pass
				-30	12	-1.788	-0.0010	-2.5 to 2.5	Pass
				-20	12	-3.347	-0.0019	-2.5 to 2.5	Pass
				-10	12	-1.531	-0.0009	-2.5 to 2.5	Pass
				0	12	-4.535	-0.0026	-2.5 to 2.5	Pass
				10	12	-3.018	-0.0017	-2.5 to 2.5	Pass
				30	12	-2.775	-0.0016	-2.5 to 2.5	Pass

16QAM	1710.7	6	0	40	12	-3.905	-0.0022	-2.5 to 2.5	Pass
				50	12	-1.516	-0.0009	-2.5 to 2.5	Pass
				20	10.2	1.616	0.0009	-2.5 to 2.5	Pass
					12	2.131	0.0012	-2.5 to 2.5	Pass
					13.8	2.060	0.0012	-2.5 to 2.5	Pass
				-30	12	1.273	0.0007	-2.5 to 2.5	Pass
				-20	12	2.747	0.0016	-2.5 to 2.5	Pass
				-10	12	1.016	0.0006	-2.5 to 2.5	Pass
				0	12	1.645	0.0010	-2.5 to 2.5	Pass
				10	12	1.559	0.0009	-2.5 to 2.5	Pass
				30	12	1.631	0.0010	-2.5 to 2.5	Pass
	1732.5	6	0	40	12	1.760	0.0010	-2.5 to 2.5	Pass
				50	12	0.000	0.0000	-2.5 to 2.5	Pass
				20	10.2	-0.143	-0.0001	-2.5 to 2.5	Pass
					12	-1.073	-0.0006	-2.5 to 2.5	Pass
					13.8	-0.086	0.0000	-2.5 to 2.5	Pass
				-30	12	-0.601	-0.0003	-2.5 to 2.5	Pass
				-20	12	-0.687	-0.0004	-2.5 to 2.5	Pass
				-10	12	-1.945	-0.0011	-2.5 to 2.5	Pass
				0	12	0.558	0.0003	-2.5 to 2.5	Pass
				10	12	-0.801	-0.0005	-2.5 to 2.5	Pass
				30	12	-0.558	-0.0003	-2.5 to 2.5	Pass
	1754.3	6	0	40	12	0.315	0.0002	-2.5 to 2.5	Pass
				50	12	-1.001	-0.0006	-2.5 to 2.5	Pass
				20	10.2	-4.020	-0.0023	-2.5 to 2.5	Pass
					12	-2.875	-0.0016	-2.5 to 2.5	Pass
					13.8	-3.576	-0.0020	-2.5 to 2.5	Pass
				-30	12	-2.117	-0.0012	-2.5 to 2.5	Pass
				-20	12	-2.861	-0.0016	-2.5 to 2.5	Pass
				-10	12	-2.375	-0.0014	-2.5 to 2.5	Pass
				0	12	-3.548	-0.0020	-2.5 to 2.5	Pass
				10	12	-3.548	-0.0020	-2.5 to 2.5	Pass
				30	12	-3.934	-0.0022	-2.5 to 2.5	Pass
				40	12	-2.904	-0.0017	-2.5 to 2.5	Pass
				50	12	-2.589	-0.0015	-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	10.2	1.316	0.0008	-2.5 to 2.5	Pass
					12	2.074	0.0012	-2.5 to 2.5	Pass
					13.8	1.087	0.0006	-2.5 to 2.5	Pass
				-30	12	0.744	0.0004	-2.5 to 2.5	Pass
				-20	12	1.173	0.0007	-2.5 to 2.5	Pass
				-10	12	2.689	0.0016	-2.5 to 2.5	Pass
				0	12	0.672	0.0004	-2.5 to 2.5	Pass
				10	12	1.602	0.0009	-2.5 to 2.5	Pass
				30	12	1.030	0.0006	-2.5 to 2.5	Pass
				40	12	0.515	0.0003	-2.5 to 2.5	Pass
				50	12	0.157	0.0001	-2.5 to 2.5	Pass
	1732.5	15	0	20	10.2	0.558	0.0003	-2.5 to 2.5	Pass
					12	-0.415	-0.0002	-2.5 to 2.5	Pass
					13.8	0.072	0.0000	-2.5 to 2.5	Pass
				-30	12	0.515	0.0003	-2.5 to 2.5	Pass
				-20	12	1.731	0.0010	-2.5 to 2.5	Pass

				-10	12	-0.401	-0.0002	-2.5 to 2.5	Pass
				0	12	-1.016	-0.0006	-2.5 to 2.5	Pass
				10	12	-0.143	-0.0001	-2.5 to 2.5	Pass
				30	12	0.343	0.0002	-2.5 to 2.5	Pass
				40	12	0.544	0.0003	-2.5 to 2.5	Pass
				50	12	-0.472	-0.0003	-2.5 to 2.5	Pass
	1753.5	15	0	20	10.2	-0.529	-0.0003	-2.5 to 2.5	Pass
					12	0.186	0.0001	-2.5 to 2.5	Pass
					13.8	0.801	0.0005	-2.5 to 2.5	Pass
				-30	12	0.343	0.0002	-2.5 to 2.5	Pass
				-20	12	0.315	0.0002	-2.5 to 2.5	Pass
				-10	12	0.758	0.0004	-2.5 to 2.5	Pass
				0	12	-0.215	-0.0001	-2.5 to 2.5	Pass
				10	12	0.401	0.0002	-2.5 to 2.5	Pass
				30	12	0.272	0.0002	-2.5 to 2.5	Pass
				40	12	-0.501	-0.0003	-2.5 to 2.5	Pass
				50	12	1.159	0.0007	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	10.2	1.302	0.0008	-2.5 to 2.5	Pass
					12	-0.458	-0.0003	-2.5 to 2.5	Pass
					13.8	0.472	0.0003	-2.5 to 2.5	Pass
				-30	12	1.059	0.0006	-2.5 to 2.5	Pass
				-20	12	0.215	0.0001	-2.5 to 2.5	Pass
				-10	12	0.601	0.0004	-2.5 to 2.5	Pass
				0	12	1.173	0.0007	-2.5 to 2.5	Pass
				10	12	1.531	0.0009	-2.5 to 2.5	Pass
				30	12	1.674	0.0010	-2.5 to 2.5	Pass
				40	12	0.086	0.0001	-2.5 to 2.5	Pass
				50	12	0.200	0.0001	-2.5 to 2.5	Pass
	1732.5	15	0	20	10.2	1.230	0.0007	-2.5 to 2.5	Pass
					12	1.302	0.0008	-2.5 to 2.5	Pass
					13.8	0.987	0.0006	-2.5 to 2.5	Pass
				-30	12	-0.329	-0.0002	-2.5 to 2.5	Pass
				-20	12	-0.172	-0.0001	-2.5 to 2.5	Pass
				-10	12	0.415	0.0002	-2.5 to 2.5	Pass
				0	12	-0.300	-0.0002	-2.5 to 2.5	Pass
				10	12	0.358	0.0002	-2.5 to 2.5	Pass
				30	12	0.858	0.0005	-2.5 to 2.5	Pass
				40	12	0.300	0.0002	-2.5 to 2.5	Pass
				50	12	-0.086	0.0000	-2.5 to 2.5	Pass
	1753.5	15	0	20	10.2	0.772	0.0004	-2.5 to 2.5	Pass
					12	-0.014	0.0000	-2.5 to 2.5	Pass
					13.8	0.772	0.0004	-2.5 to 2.5	Pass
				-30	12	0.358	0.0002	-2.5 to 2.5	Pass
				-20	12	0.687	0.0004	-2.5 to 2.5	Pass
				-10	12	1.030	0.0006	-2.5 to 2.5	Pass
				0	12	1.001	0.0006	-2.5 to 2.5	Pass
				10	12	0.844	0.0005	-2.5 to 2.5	Pass
				30	12	-0.257	-0.0001	-2.5 to 2.5	Pass
				40	12	0.601	0.0003	-2.5 to 2.5	Pass
				50	12	-0.186	-0.0001	-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	10.2	1.087	0.0006	-2.5 to 2.5	Pass

						12	1.674	0.0010	-2.5 to 2.5	Pass	
						13.8	0.958	0.0006	-2.5 to 2.5	Pass	
					-30	12	2.131	0.0012	-2.5 to 2.5	Pass	
					-20	12	1.974	0.0012	-2.5 to 2.5	Pass	
					-10	12	1.659	0.0010	-2.5 to 2.5	Pass	
					0	12	1.588	0.0009	-2.5 to 2.5	Pass	
					10	12	2.246	0.0013	-2.5 to 2.5	Pass	
					30	12	1.574	0.0009	-2.5 to 2.5	Pass	
					40	12	2.060	0.0012	-2.5 to 2.5	Pass	
					50	12	1.659	0.0010	-2.5 to 2.5	Pass	
	1732.5	25	0			20	10.2	-1.059	-0.0006	-2.5 to 2.5	Pass
							12	0.501	0.0003	-2.5 to 2.5	Pass
							13.8	0.644	0.0004	-2.5 to 2.5	Pass
						-30	12	1.416	0.0008	-2.5 to 2.5	Pass
						-20	12	1.202	0.0007	-2.5 to 2.5	Pass
						-10	12	0.844	0.0005	-2.5 to 2.5	Pass
						0	12	0.615	0.0004	-2.5 to 2.5	Pass
						10	12	0.057	0.0000	-2.5 to 2.5	Pass
						30	12	0.443	0.0003	-2.5 to 2.5	Pass
						40	12	1.173	0.0007	-2.5 to 2.5	Pass
	50	12	0.343	0.0002	-2.5 to 2.5	Pass					
	1752.5	25	0			20	10.2	-2.990	-0.0017	-2.5 to 2.5	Pass
							12	-2.146	-0.0012	-2.5 to 2.5	Pass
							13.8	-2.503	-0.0014	-2.5 to 2.5	Pass
						-30	12	-2.418	-0.0014	-2.5 to 2.5	Pass
						-20	12	-3.018	-0.0017	-2.5 to 2.5	Pass
						-10	12	-2.432	-0.0014	-2.5 to 2.5	Pass
						0	12	-1.431	-0.0008	-2.5 to 2.5	Pass
						10	12	-3.219	-0.0018	-2.5 to 2.5	Pass
						30	12	-2.761	-0.0016	-2.5 to 2.5	Pass
						40	12	-3.033	-0.0017	-2.5 to 2.5	Pass
	50	12	-2.732	-0.0016	-2.5 to 2.5	Pass					
16QAM	1712.5	25	0			20	10.2	2.146	0.0013	-2.5 to 2.5	Pass
							12	1.388	0.0008	-2.5 to 2.5	Pass
							13.8	1.931	0.0011	-2.5 to 2.5	Pass
						-30	12	1.445	0.0008	-2.5 to 2.5	Pass
						-20	12	1.702	0.0010	-2.5 to 2.5	Pass
						-10	12	1.616	0.0009	-2.5 to 2.5	Pass
						0	12	1.488	0.0009	-2.5 to 2.5	Pass
						10	12	2.575	0.0015	-2.5 to 2.5	Pass
						30	12	1.731	0.0010	-2.5 to 2.5	Pass
						40	12	1.273	0.0007	-2.5 to 2.5	Pass
	50	12	2.303	0.0013	-2.5 to 2.5	Pass					
	1732.5	25	0			20	10.2	0.029	0.0000	-2.5 to 2.5	Pass
							12	1.159	0.0007	-2.5 to 2.5	Pass
							13.8	1.187	0.0007	-2.5 to 2.5	Pass
						-30	12	0.300	0.0002	-2.5 to 2.5	Pass
						-20	12	1.216	0.0007	-2.5 to 2.5	Pass
						-10	12	0.186	0.0001	-2.5 to 2.5	Pass
						0	12	0.830	0.0005	-2.5 to 2.5	Pass
						10	12	0.644	0.0004	-2.5 to 2.5	Pass
						30	12	0.701	0.0004	-2.5 to 2.5	Pass
						40	12	1.373	0.0008	-2.5 to 2.5	Pass
	50	12	1.159	0.0007	-2.5 to 2.5	Pass					
	1752.5	25	0			20	10.2	-2.503	-0.0014	-2.5 to 2.5	Pass
							12	-3.605	-0.0021	-2.5 to 2.5	Pass
							13.8	-3.047	-0.0017	-2.5 to 2.5	Pass
						-30	12	-3.319	-0.0019	-2.5 to 2.5	Pass
						-20	12	-3.047	-0.0017	-2.5 to 2.5	Pass
						-10	12	-2.432	-0.0014	-2.5 to 2.5	Pass
						0	12	-2.174	-0.0012	-2.5 to 2.5	Pass
						10	12	-2.160	-0.0012	-2.5 to 2.5	Pass

				30	12	-2.418	-0.0014	-2.5 to 2.5	Pass
				40	12	-2.818	-0.0016	-2.5 to 2.5	Pass
				50	12	-2.432	-0.0014	-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	10.2	-2.060	-0.0012	-2.5 to 2.5	Pass
					12	-3.290	-0.0019	-2.5 to 2.5	Pass
					13.8	-2.060	-0.0012	-2.5 to 2.5	Pass
				-30	12	-1.745	-0.0010	-2.5 to 2.5	Pass
				-20	12	-2.460	-0.0014	-2.5 to 2.5	Pass
				-10	12	-1.717	-0.0010	-2.5 to 2.5	Pass
				0	12	-2.017	-0.0012	-2.5 to 2.5	Pass
				10	12	-2.747	-0.0016	-2.5 to 2.5	Pass
				30	12	-2.990	-0.0017	-2.5 to 2.5	Pass
				40	12	-1.874	-0.0011	-2.5 to 2.5	Pass
				50	12	-2.103	-0.0012	-2.5 to 2.5	Pass
	1732.5	50	0	20	10.2	0.086	0.0000	-2.5 to 2.5	Pass
					12	0.644	0.0004	-2.5 to 2.5	Pass
					13.8	0.572	0.0003	-2.5 to 2.5	Pass
				-30	12	0.887	0.0005	-2.5 to 2.5	Pass
				-20	12	0.515	0.0003	-2.5 to 2.5	Pass
				-10	12	1.345	0.0008	-2.5 to 2.5	Pass
				0	12	0.601	0.0003	-2.5 to 2.5	Pass
				10	12	-0.157	-0.0001	-2.5 to 2.5	Pass
				30	12	0.758	0.0004	-2.5 to 2.5	Pass
				40	12	0.901	0.0005	-2.5 to 2.5	Pass
				50	12	1.087	0.0006	-2.5 to 2.5	Pass
	1750	50	0	20	10.2	2.117	0.0012	-2.5 to 2.5	Pass
					12	1.688	0.0010	-2.5 to 2.5	Pass
					13.8	2.174	0.0012	-2.5 to 2.5	Pass
				-30	12	1.802	0.0010	-2.5 to 2.5	Pass
				-20	12	2.346	0.0013	-2.5 to 2.5	Pass
				-10	12	1.516	0.0009	-2.5 to 2.5	Pass
				0	12	1.402	0.0008	-2.5 to 2.5	Pass
				10	12	1.931	0.0011	-2.5 to 2.5	Pass
				30	12	1.273	0.0007	-2.5 to 2.5	Pass
				40	12	1.845	0.0011	-2.5 to 2.5	Pass
				50	12	2.975	0.0017	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	10.2	-3.090	-0.0018	-2.5 to 2.5	Pass
					12	-3.247	-0.0019	-2.5 to 2.5	Pass
					13.8	-2.933	-0.0017	-2.5 to 2.5	Pass
				-30	12	-2.446	-0.0014	-2.5 to 2.5	Pass
				-20	12	-2.861	-0.0017	-2.5 to 2.5	Pass
				-10	12	-3.290	-0.0019	-2.5 to 2.5	Pass
				0	12	-2.146	-0.0013	-2.5 to 2.5	Pass
				10	12	-2.403	-0.0014	-2.5 to 2.5	Pass
				30	12	-2.632	-0.0015	-2.5 to 2.5	Pass
				40	12	-2.990	-0.0017	-2.5 to 2.5	Pass
				50	12	-2.575	-0.0015	-2.5 to 2.5	Pass
	1732.5	50	0	20	10.2	-0.987	-0.0006	-2.5 to 2.5	Pass
					12	1.531	0.0009	-2.5 to 2.5	Pass
					13.8	0.157	0.0001	-2.5 to 2.5	Pass
				-30	12	0.787	0.0005	-2.5 to 2.5	Pass

				-20	12	-0.086	0.0000	-2.5 to 2.5	Pass
				-10	12	0.644	0.0004	-2.5 to 2.5	Pass
				0	12	-0.515	-0.0003	-2.5 to 2.5	Pass
				10	12	0.157	0.0001	-2.5 to 2.5	Pass
				30	12	0.515	0.0003	-2.5 to 2.5	Pass
				40	12	-0.801	-0.0005	-2.5 to 2.5	Pass
				50	12	-0.587	-0.0003	-2.5 to 2.5	Pass
	1750	50	0	20	10.2	1.845	0.0011	-2.5 to 2.5	Pass
					12	1.559	0.0009	-2.5 to 2.5	Pass
					13.8	0.544	0.0003	-2.5 to 2.5	Pass
				-30	12	1.473	0.0008	-2.5 to 2.5	Pass
				-20	12	1.831	0.0010	-2.5 to 2.5	Pass
				-10	12	1.402	0.0008	-2.5 to 2.5	Pass
				0	12	2.174	0.0012	-2.5 to 2.5	Pass
				10	12	1.359	0.0008	-2.5 to 2.5	Pass
				30	12	2.146	0.0012	-2.5 to 2.5	Pass
				40	12	1.330	0.0008	-2.5 to 2.5	Pass
				50	12	0.486	0.0003	-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	10.2	1.273	0.0007	-2.5 to 2.5	Pass
					12	1.187	0.0007	-2.5 to 2.5	Pass
					13.8	-0.229	-0.0001	-2.5 to 2.5	Pass
				-30	12	0.486	0.0003	-2.5 to 2.5	Pass
				-20	12	0.300	0.0002	-2.5 to 2.5	Pass
				-10	12	1.101	0.0006	-2.5 to 2.5	Pass
				0	12	1.187	0.0007	-2.5 to 2.5	Pass
				10	12	0.529	0.0003	-2.5 to 2.5	Pass
				30	12	1.302	0.0008	-2.5 to 2.5	Pass
				40	12	0.501	0.0003	-2.5 to 2.5	Pass
				50	12	0.429	0.0002	-2.5 to 2.5	Pass
	1732.5	75	0	20	10.2	-0.315	-0.0002	-2.5 to 2.5	Pass
					12	0.772	0.0004	-2.5 to 2.5	Pass
					13.8	1.030	0.0006	-2.5 to 2.5	Pass
				-30	12	0.386	0.0002	-2.5 to 2.5	Pass
				-20	12	0.372	0.0002	-2.5 to 2.5	Pass
				-10	12	0.100	0.0001	-2.5 to 2.5	Pass
				0	12	0.844	0.0005	-2.5 to 2.5	Pass
				10	12	0.000	0.0000	-2.5 to 2.5	Pass
				30	12	0.558	0.0003	-2.5 to 2.5	Pass
				40	12	-0.029	0.0000	-2.5 to 2.5	Pass
				50	12	0.944	0.0005	-2.5 to 2.5	Pass
	1747.5	75	0	20	10.2	0.515	0.0003	-2.5 to 2.5	Pass
					12	0.401	0.0002	-2.5 to 2.5	Pass
					13.8	0.229	0.0001	-2.5 to 2.5	Pass
				-30	12	0.930	0.0005	-2.5 to 2.5	Pass
				-20	12	0.315	0.0002	-2.5 to 2.5	Pass
				-10	12	1.373	0.0008	-2.5 to 2.5	Pass
				0	12	1.431	0.0008	-2.5 to 2.5	Pass
				10	12	-0.529	-0.0003	-2.5 to 2.5	Pass
				30	12	1.559	0.0009	-2.5 to 2.5	Pass
				40	12	1.059	0.0006	-2.5 to 2.5	Pass
				50	12	1.016	0.0006	-2.5 to 2.5	Pass

16QAM	1717.5	75	0	20	10.2	0.830	0.0005	-2.5 to 2.5	Pass
					12	0.644	0.0004	-2.5 to 2.5	Pass
					13.8	0.687	0.0004	-2.5 to 2.5	Pass
				-30	12	0.172	0.0001	-2.5 to 2.5	Pass
				-20	12	0.515	0.0003	-2.5 to 2.5	Pass
				-10	12	0.629	0.0004	-2.5 to 2.5	Pass
				0	12	0.257	0.0001	-2.5 to 2.5	Pass
				10	12	0.672	0.0004	-2.5 to 2.5	Pass
				30	12	0.515	0.0003	-2.5 to 2.5	Pass
				40	12	1.030	0.0006	-2.5 to 2.5	Pass
				50	12	0.057	0.0000	-2.5 to 2.5	Pass
	1732.5	75	0	20	10.2	0.873	0.0005	-2.5 to 2.5	Pass
					12	-0.129	-0.0001	-2.5 to 2.5	Pass
					13.8	0.672	0.0004	-2.5 to 2.5	Pass
				-30	12	0.443	0.0003	-2.5 to 2.5	Pass
				-20	12	1.087	0.0006	-2.5 to 2.5	Pass
				-10	12	0.916	0.0005	-2.5 to 2.5	Pass
				0	12	0.701	0.0004	-2.5 to 2.5	Pass
				10	12	0.286	0.0002	-2.5 to 2.5	Pass
				30	12	0.529	0.0003	-2.5 to 2.5	Pass
				40	12	-0.029	0.0000	-2.5 to 2.5	Pass
				50	12	0.086	0.0000	-2.5 to 2.5	Pass
	1747.5	75	0	20	10.2	0.629	0.0004	-2.5 to 2.5	Pass
					12	0.343	0.0002	-2.5 to 2.5	Pass
					13.8	0.529	0.0003	-2.5 to 2.5	Pass
				-30	12	0.157	0.0001	-2.5 to 2.5	Pass
				-20	12	0.672	0.0004	-2.5 to 2.5	Pass
				-10	12	0.458	0.0003	-2.5 to 2.5	Pass
				0	12	1.316	0.0008	-2.5 to 2.5	Pass
				10	12	-0.329	-0.0002	-2.5 to 2.5	Pass
				30	12	0.415	0.0002	-2.5 to 2.5	Pass
				40	12	0.086	0.0000	-2.5 to 2.5	Pass
				50	12	0.887	0.0005	-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	10.2	1.988	0.0012	-2.5 to 2.5	Pass
					12	2.689	0.0016	-2.5 to 2.5	Pass
					13.8	1.817	0.0011	-2.5 to 2.5	Pass
				-30	12	1.659	0.0010	-2.5 to 2.5	Pass
				-20	12	1.130	0.0007	-2.5 to 2.5	Pass
				-10	12	1.616	0.0009	-2.5 to 2.5	Pass
				0	12	1.717	0.0010	-2.5 to 2.5	Pass
				10	12	1.559	0.0009	-2.5 to 2.5	Pass
				30	12	1.960	0.0011	-2.5 to 2.5	Pass
				40	12	1.059	0.0006	-2.5 to 2.5	Pass
				50	12	2.403	0.0014	-2.5 to 2.5	Pass
	1732.5	100	0	20	10.2	0.544	0.0003	-2.5 to 2.5	Pass
					12	-0.057	0.0000	-2.5 to 2.5	Pass
					13.8	1.144	0.0007	-2.5 to 2.5	Pass
				-30	12	-0.100	-0.0001	-2.5 to 2.5	Pass
				-20	12	0.787	0.0005	-2.5 to 2.5	Pass
				-10	12	0.486	0.0003	-2.5 to 2.5	Pass
				0	12	0.429	0.0002	-2.5 to 2.5	Pass

	1745	100	0	10	12	0.429	0.0002	-2.5 to 2.5	Pass
				30	12	0.658	0.0004	-2.5 to 2.5	Pass
				40	12	0.858	0.0005	-2.5 to 2.5	Pass
				50	12	0.701	0.0004	-2.5 to 2.5	Pass
				20	10.2	-3.548	-0.0020	-2.5 to 2.5	Pass
					12	-2.961	-0.0017	-2.5 to 2.5	Pass
					13.8	-3.104	-0.0018	-2.5 to 2.5	Pass
				-30	12	-2.575	-0.0015	-2.5 to 2.5	Pass
				-20	12	-2.990	-0.0017	-2.5 to 2.5	Pass
				-10	12	-3.347	-0.0019	-2.5 to 2.5	Pass
				0	12	-2.890	-0.0017	-2.5 to 2.5	Pass
				10	12	-2.317	-0.0013	-2.5 to 2.5	Pass
				30	12	-3.304	-0.0019	-2.5 to 2.5	Pass
				40	12	-2.747	-0.0016	-2.5 to 2.5	Pass
				50	12	-3.519	-0.0020	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	10.2	2.303	0.0013	-2.5 to 2.5	Pass
					12	1.988	0.0012	-2.5 to 2.5	Pass
					13.8	2.832	0.0016	-2.5 to 2.5	Pass
				-30	12	1.974	0.0011	-2.5 to 2.5	Pass
				-20	12	2.518	0.0015	-2.5 to 2.5	Pass
				-10	12	1.402	0.0008	-2.5 to 2.5	Pass
				0	12	2.575	0.0015	-2.5 to 2.5	Pass
				10	12	2.890	0.0017	-2.5 to 2.5	Pass
				30	12	1.631	0.0009	-2.5 to 2.5	Pass
				40	12	1.459	0.0008	-2.5 to 2.5	Pass
				50	12	1.745	0.0010	-2.5 to 2.5	Pass
	1732.5	100	0	20	10.2	0.815	0.0005	-2.5 to 2.5	Pass
					12	0.343	0.0002	-2.5 to 2.5	Pass
					13.8	0.072	0.0000	-2.5 to 2.5	Pass
				-30	12	0.458	0.0003	-2.5 to 2.5	Pass
				-20	12	0.801	0.0005	-2.5 to 2.5	Pass
				-10	12	0.601	0.0003	-2.5 to 2.5	Pass
				0	12	0.243	0.0001	-2.5 to 2.5	Pass
				10	12	1.130	0.0007	-2.5 to 2.5	Pass
				30	12	0.515	0.0003	-2.5 to 2.5	Pass
				40	12	1.073	0.0006	-2.5 to 2.5	Pass
				50	12	0.844	0.0005	-2.5 to 2.5	Pass
	1745	100	0	20	10.2	-1.760	-0.0010	-2.5 to 2.5	Pass
					12	-2.203	-0.0013	-2.5 to 2.5	Pass
					13.8	-2.418	-0.0014	-2.5 to 2.5	Pass
				-30	12	-2.303	-0.0013	-2.5 to 2.5	Pass
				-20	12	-3.204	-0.0018	-2.5 to 2.5	Pass
				-10	12	-2.346	-0.0013	-2.5 to 2.5	Pass
				0	12	-3.233	-0.0019	-2.5 to 2.5	Pass
				10	12	-2.031	-0.0012	-2.5 to 2.5	Pass
				30	12	-2.604	-0.0015	-2.5 to 2.5	Pass
				40	12	-2.804	-0.0016	-2.5 to 2.5	Pass
				50	12	-3.104	-0.0018	-2.5 to 2.5	Pass

3. Modulation Characteristics

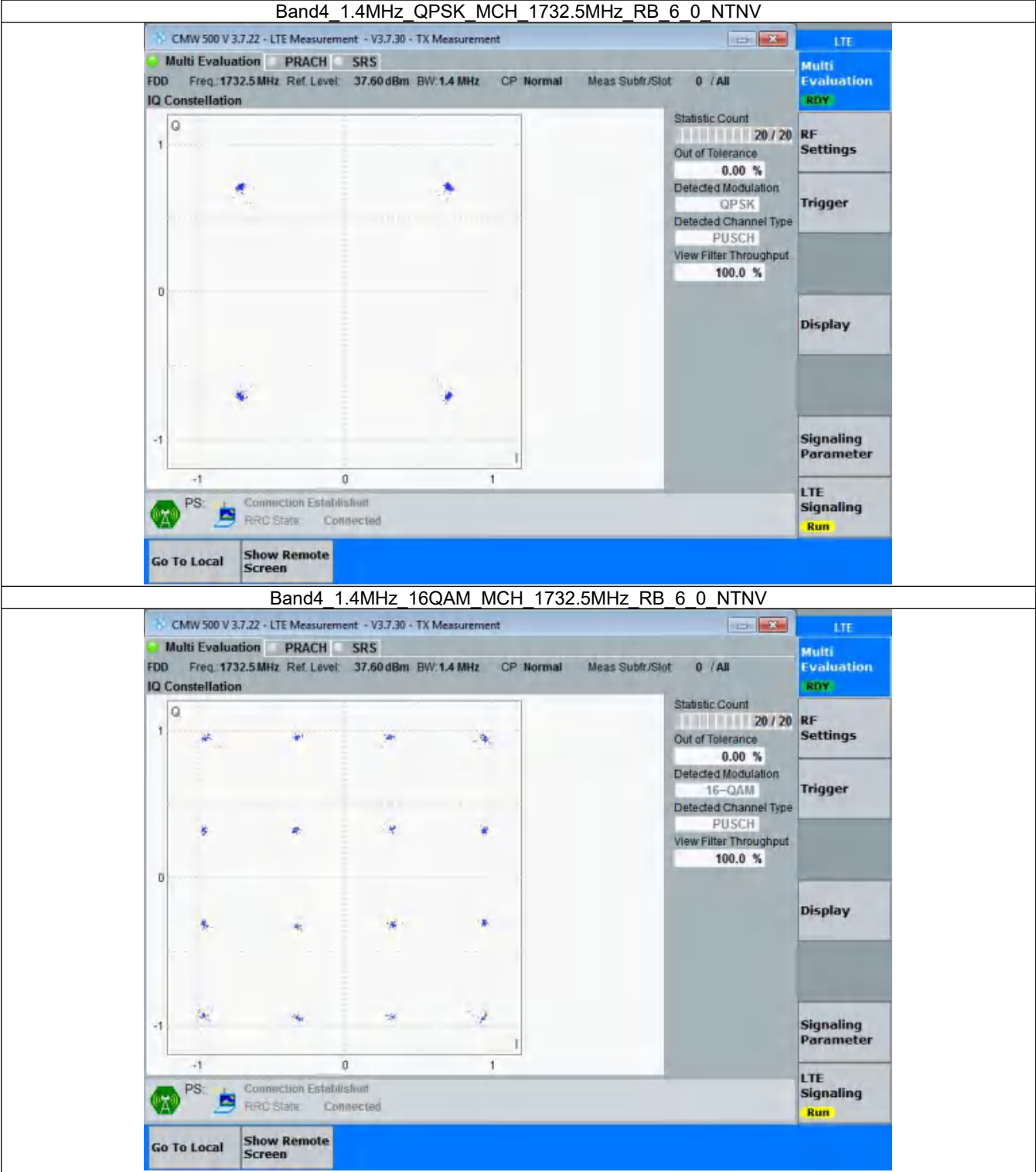
3.1 B4_1.4MHz

3.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
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
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3.1.2 Test Graph

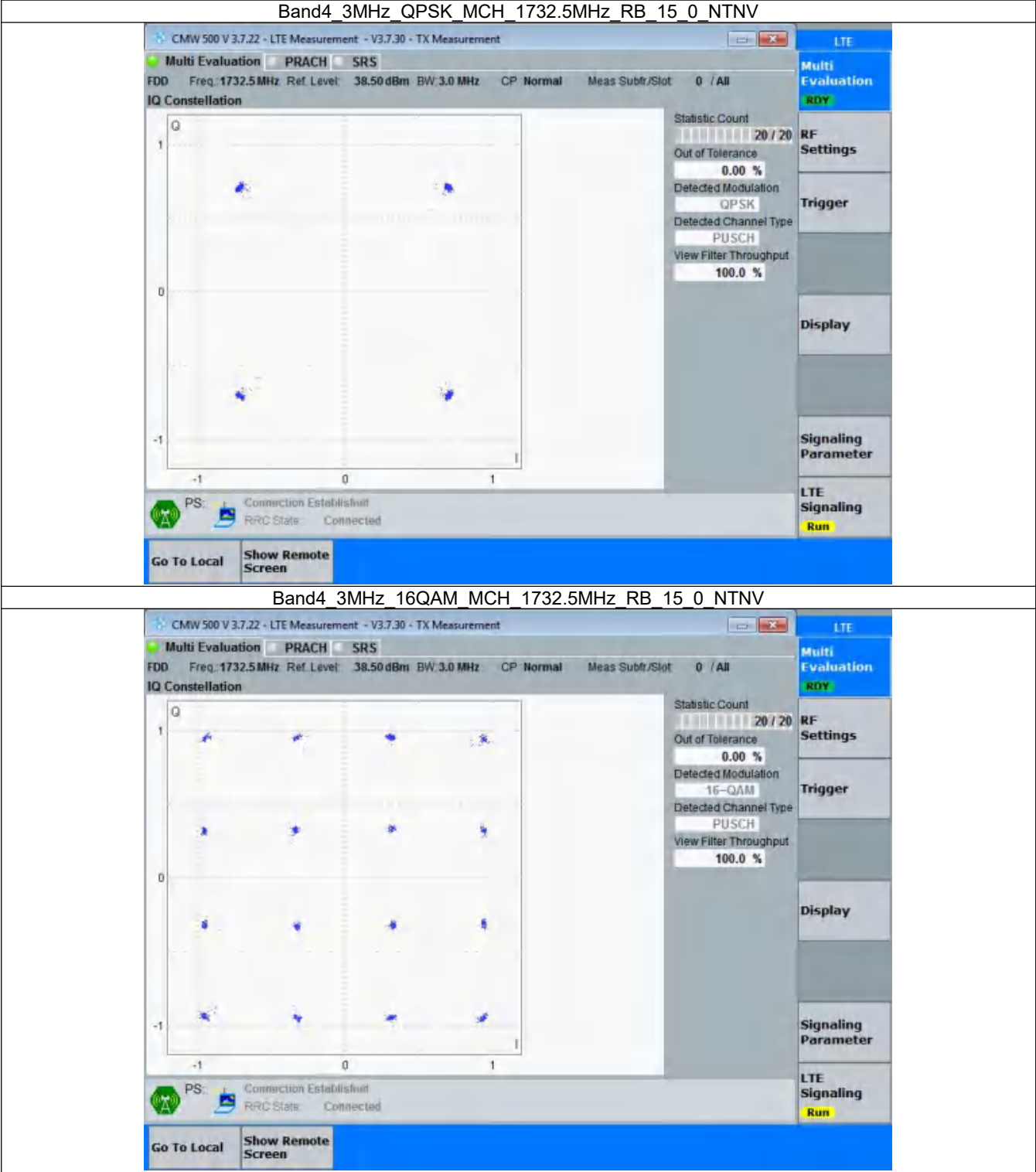


3.2 B4_3MHz

3.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
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

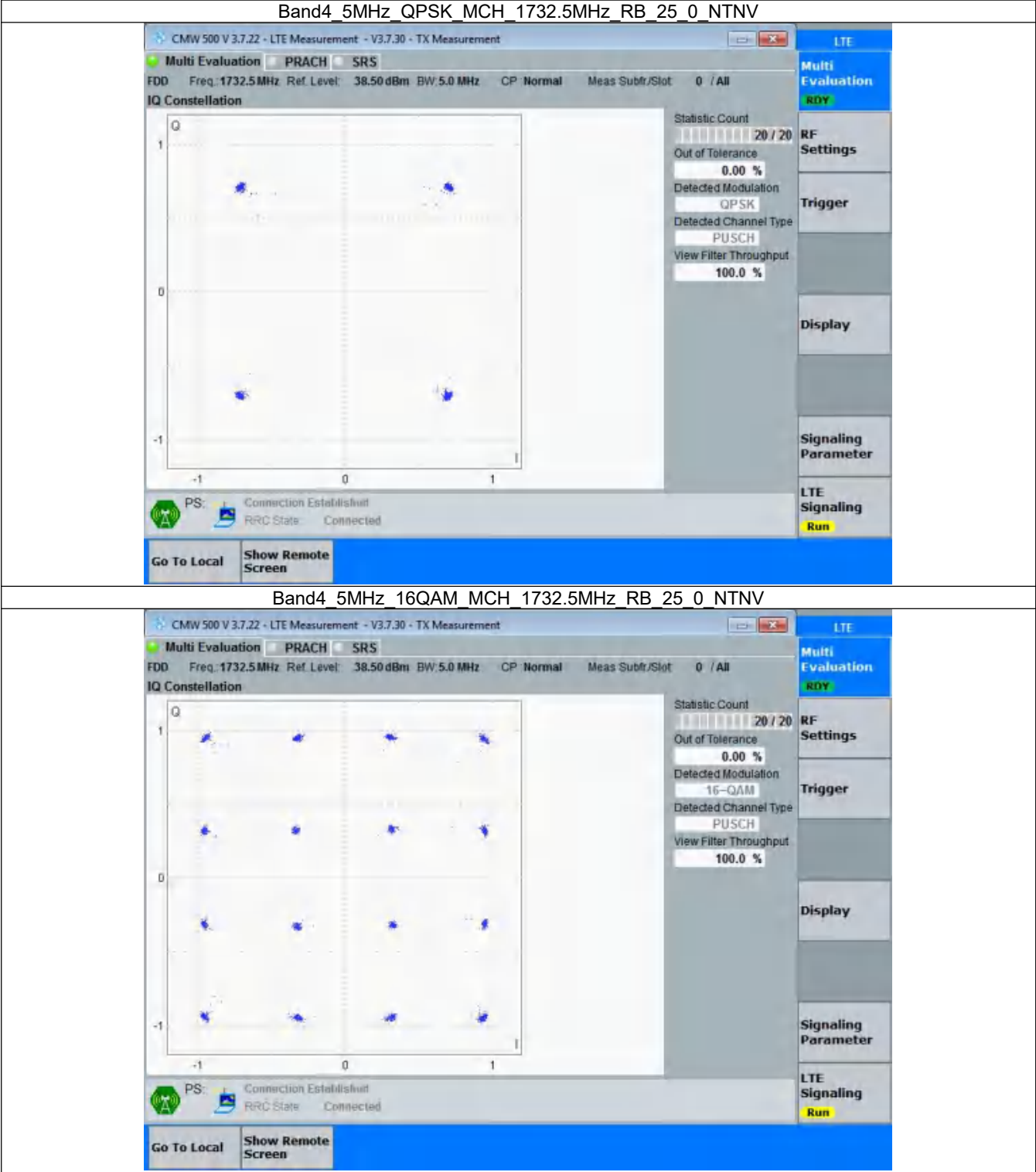


3.3 B4_5MHz

3.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
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

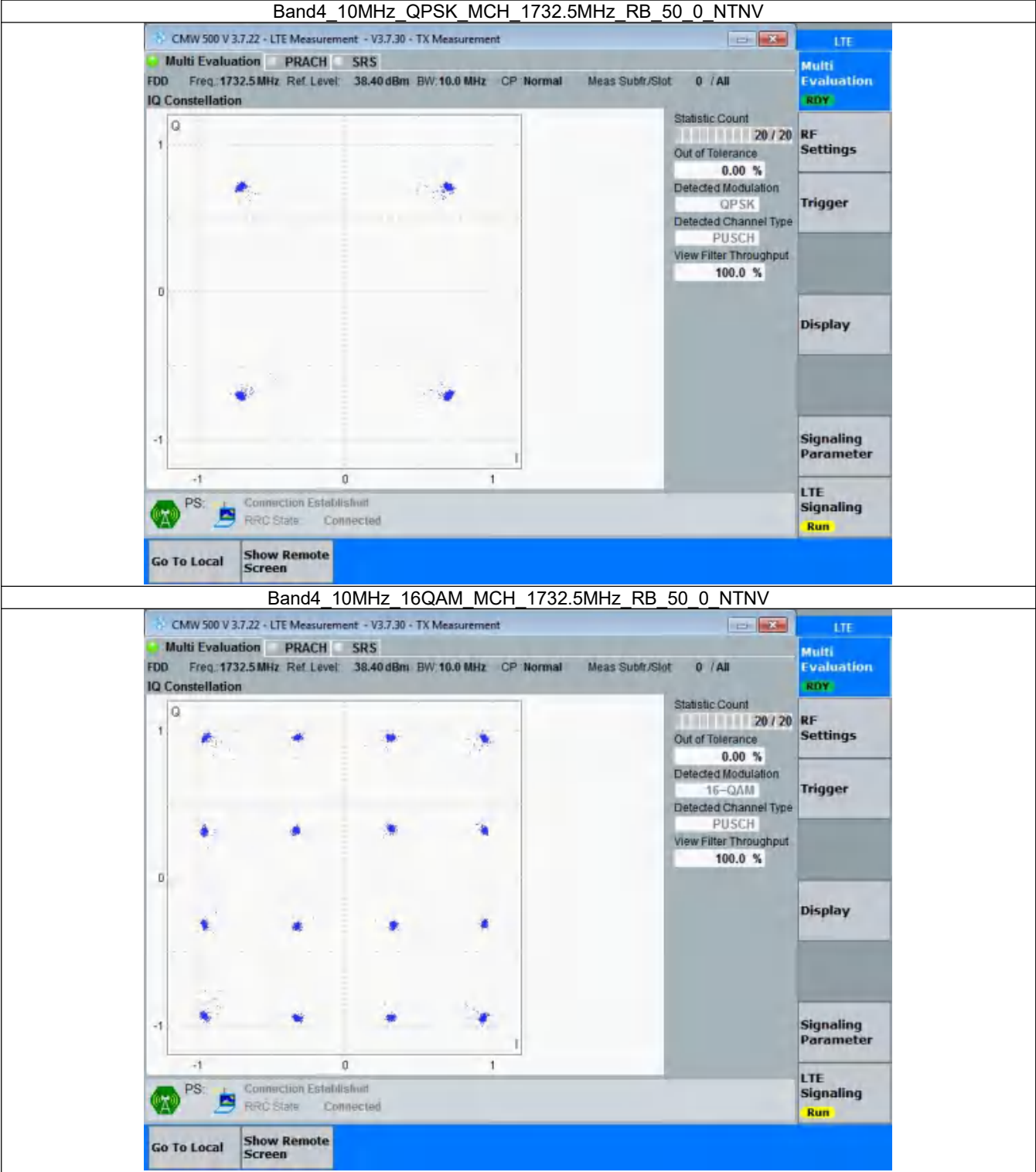


3.4 B4_10MHz

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

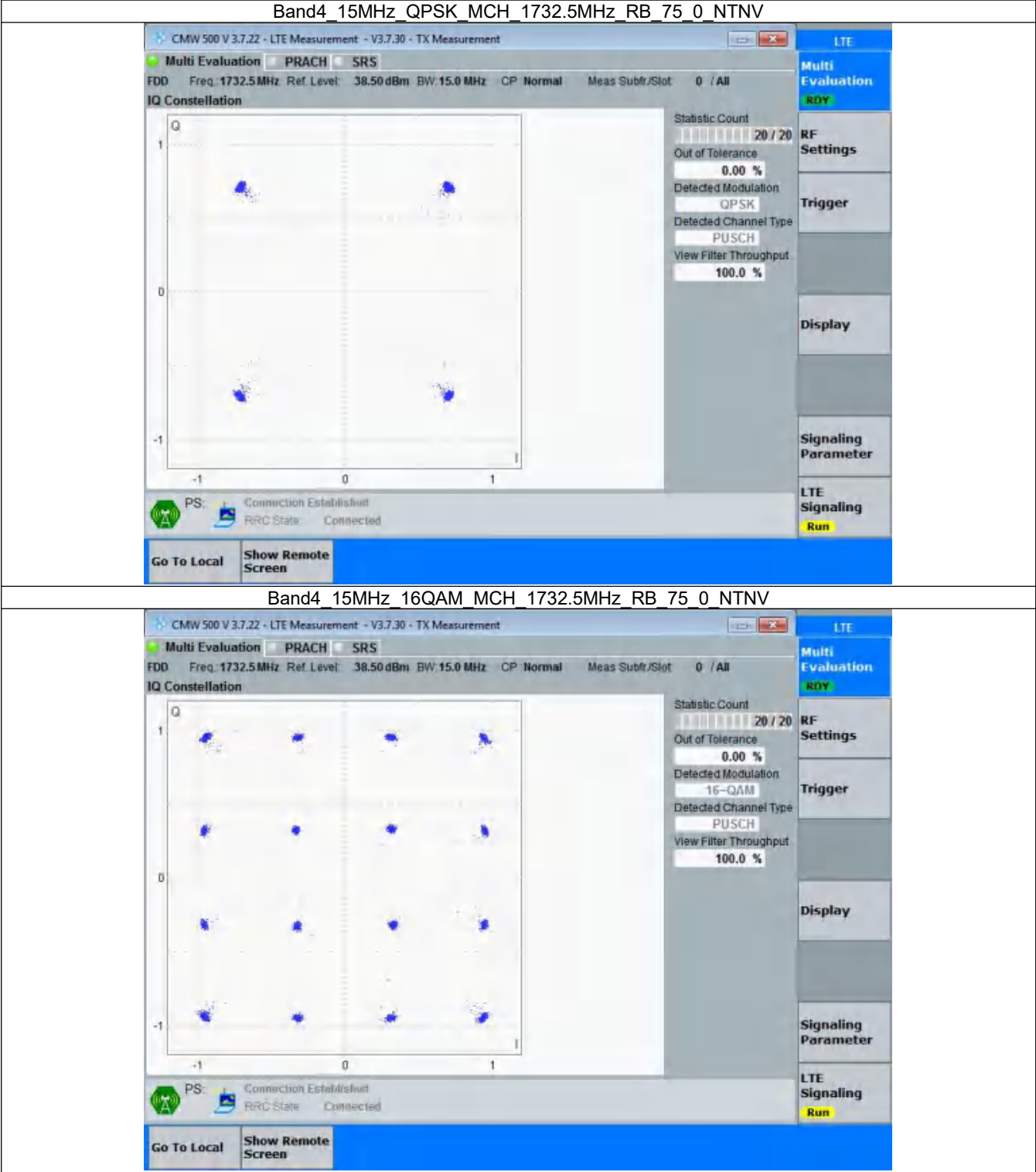


3.5 B4_15MHz

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

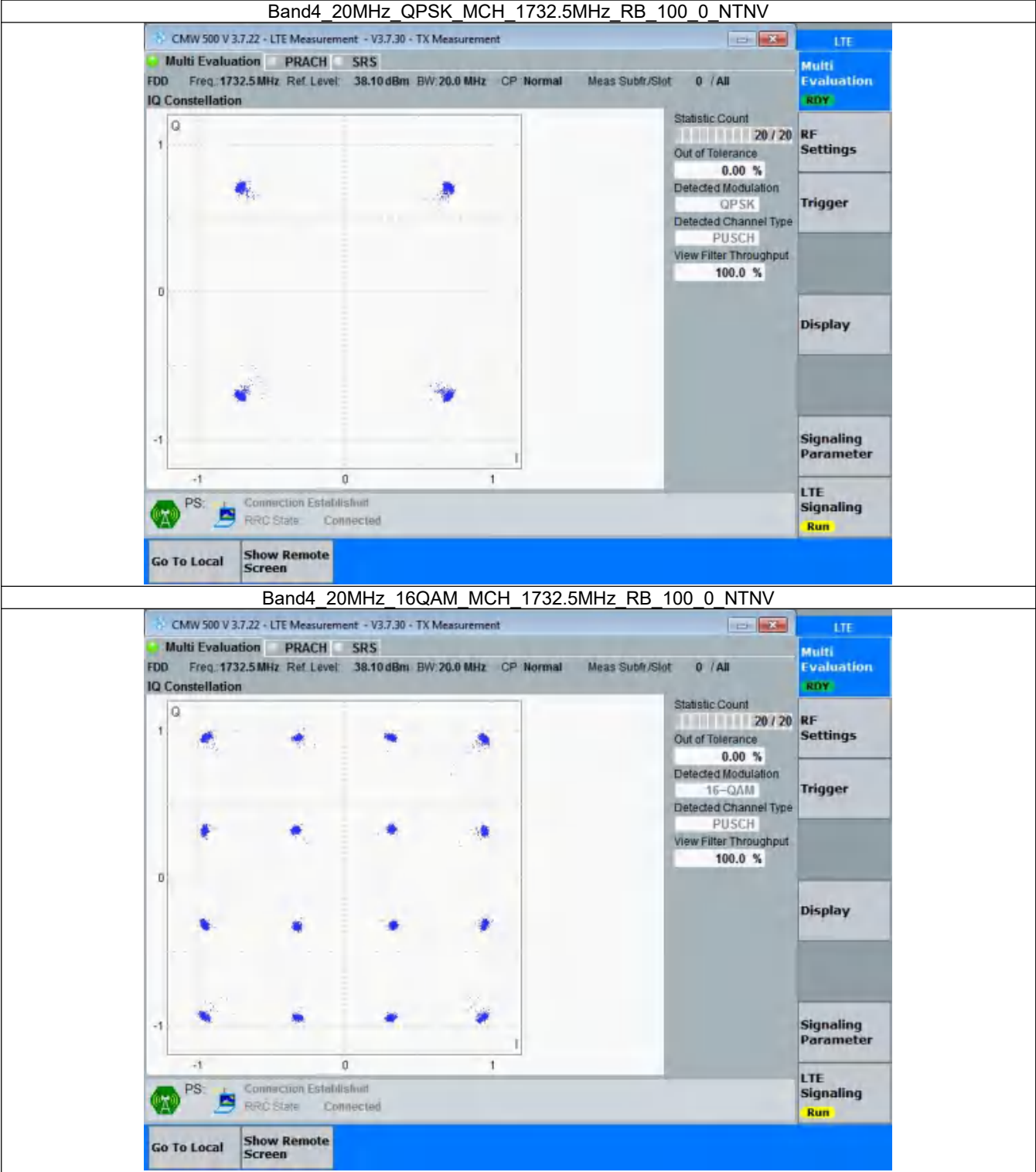


3.6 B4_20MHz

3.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
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



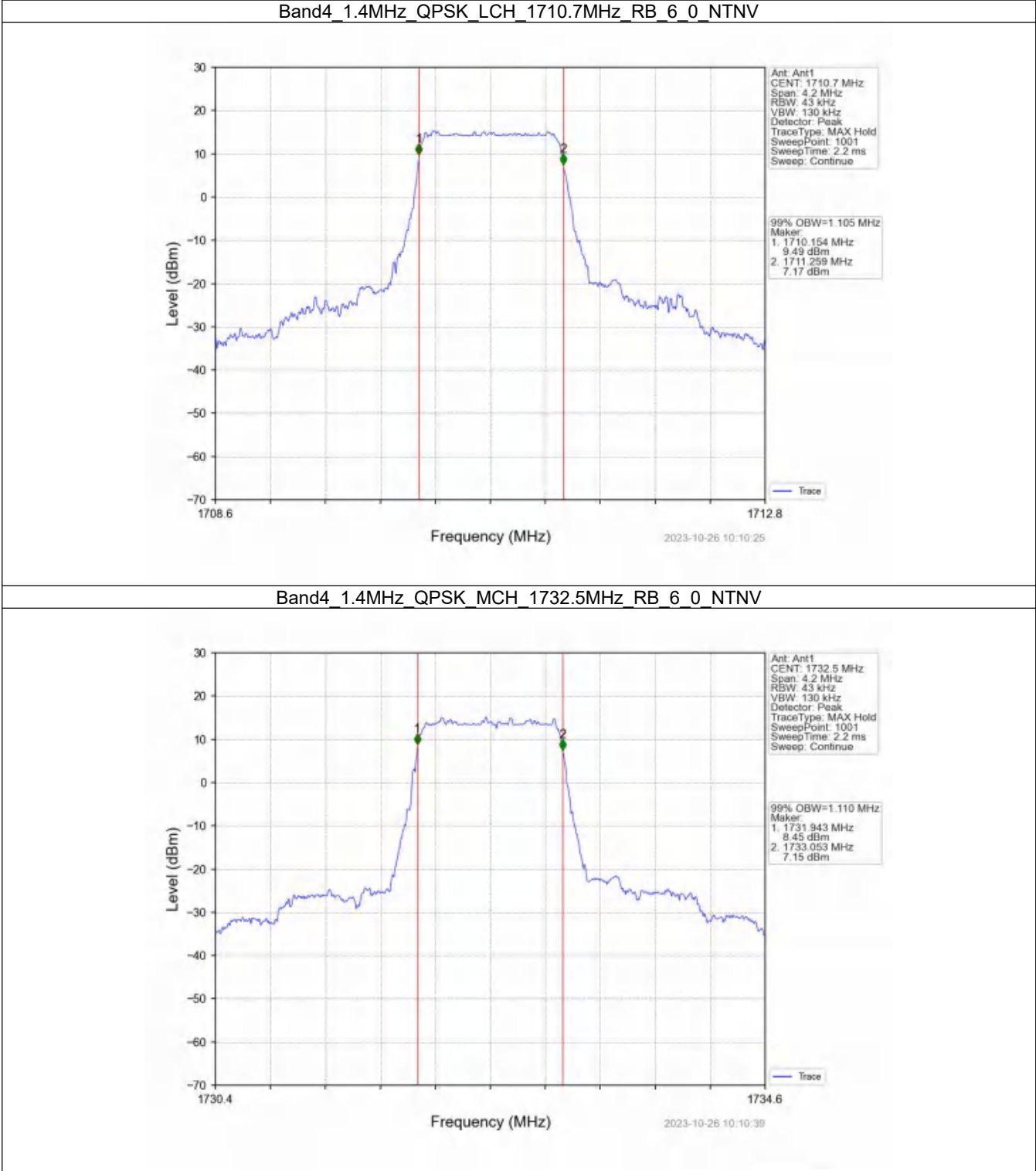
4. 99% & 26dB Bandwidth

4.1 Band4_OBW

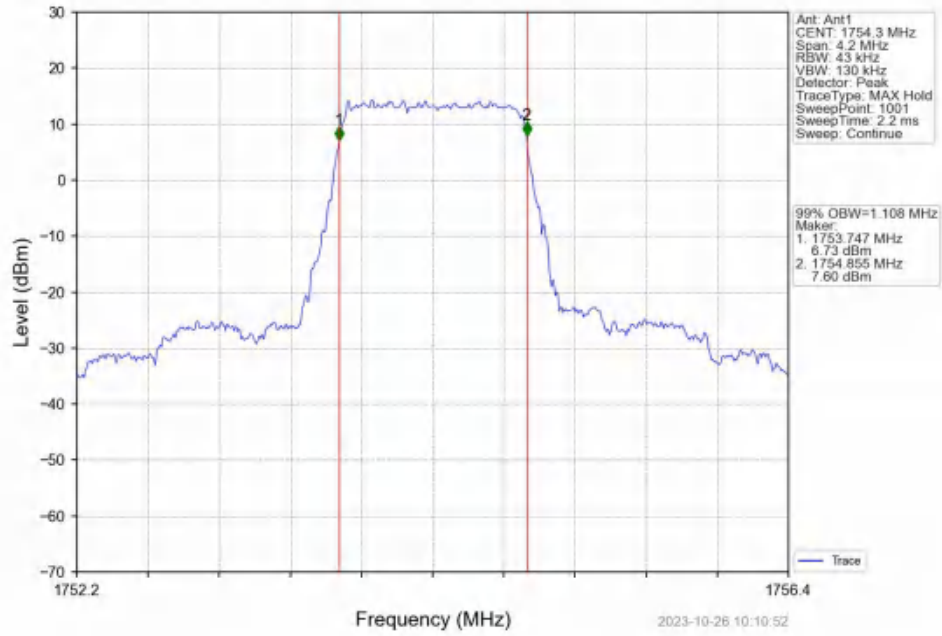
4.1.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.105	/	Pass
		1732.5	6	0	1.110	/	Pass
		1754.3	6	0	1.108	/	Pass
	16QAM	1710.7	6	0	1.123	/	Pass
		1732.5	6	0	1.111	/	Pass
		1754.3	6	0	1.106	/	Pass
3	QPSK	1711.5	15	0	2.736	/	Pass
		1732.5	15	0	2.735	/	Pass
		1753.5	15	0	2.738	/	Pass
	16QAM	1711.5	15	0	2.737	/	Pass
		1732.5	15	0	2.735	/	Pass
		1753.5	15	0	2.768	/	Pass
5	QPSK	1712.5	25	0	4.556	/	Pass
		1732.5	25	0	4.553	/	Pass
		1752.5	25	0	4.553	/	Pass
	16QAM	1712.5	25	0	4.571	/	Pass
		1732.5	25	0	4.560	/	Pass
		1752.5	25	0	4.542	/	Pass
10	QPSK	1715	50	0	9.001	/	Pass
		1732.5	50	0	9.024	/	Pass
		1750	50	0	9.047	/	Pass
	16QAM	1715	50	0	9.026	/	Pass
		1732.5	50	0	9.019	/	Pass
		1750	50	0	9.024	/	Pass
15	QPSK	1717.5	75	0	13.540	/	Pass
		1732.5	75	0	13.518	/	Pass
		1747.5	75	0	13.560	/	Pass
	16QAM	1717.5	75	0	13.547	/	Pass
		1732.5	75	0	13.550	/	Pass
		1747.5	75	0	13.534	/	Pass
20	QPSK	1720	100	0	18.051	/	Pass
		1732.5	100	0	18.010	/	Pass
		1745	100	0	18.028	/	Pass
	16QAM	1720	100	0	18.045	/	Pass
		1732.5	100	0	18.057	/	Pass
		1745	100	0	18.042	/	Pass

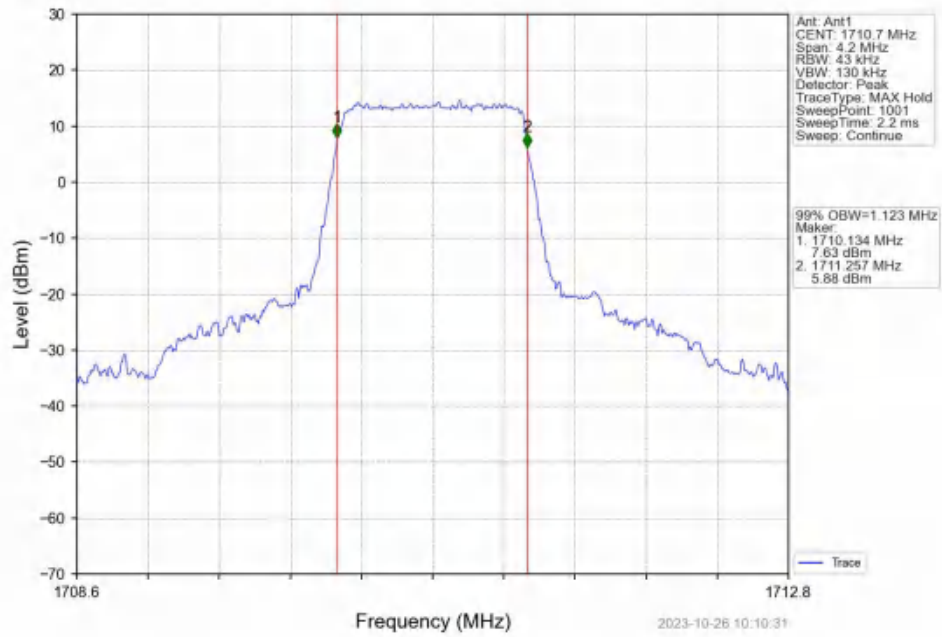
4.1.2 Test Graph



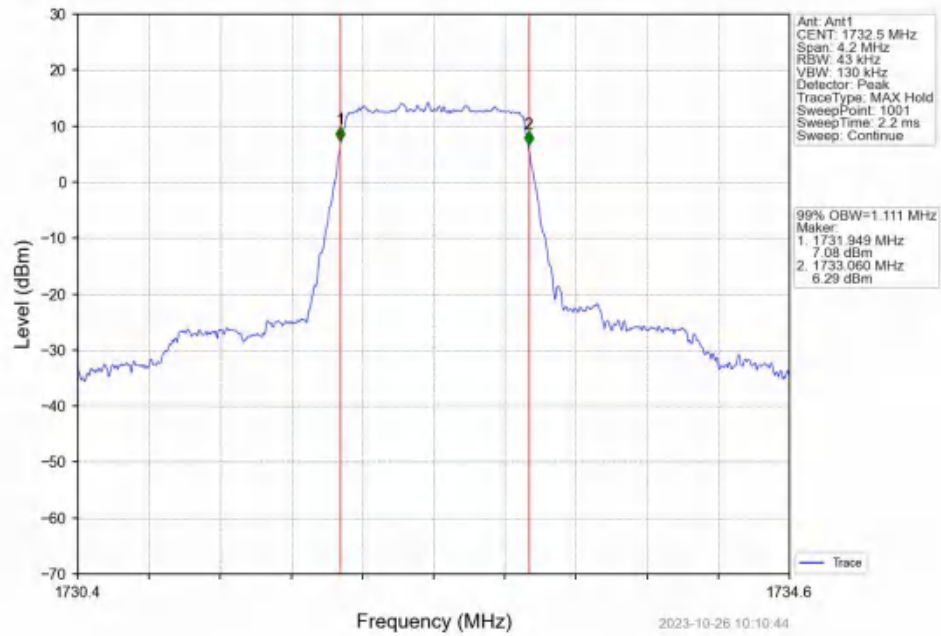
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



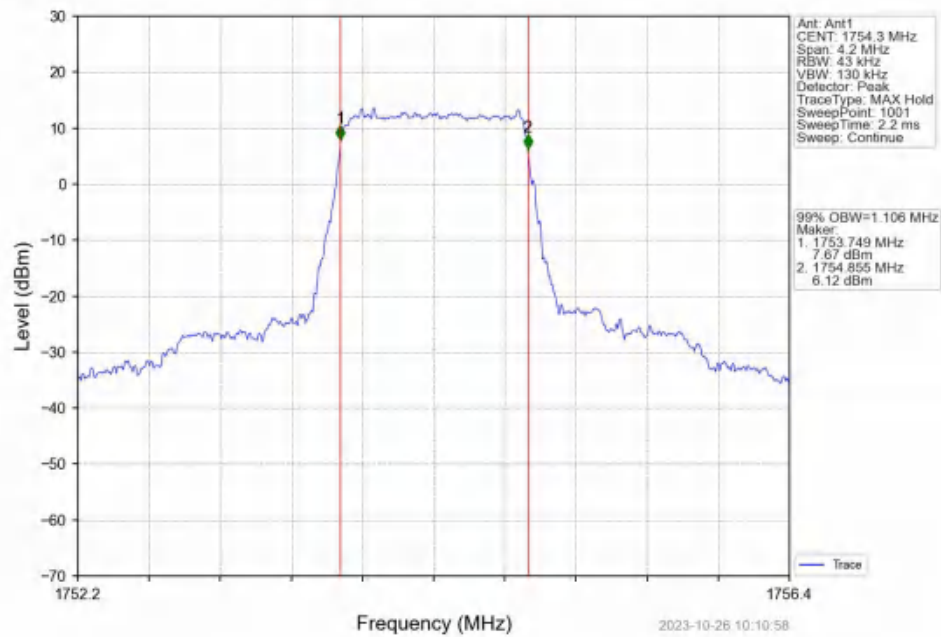
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



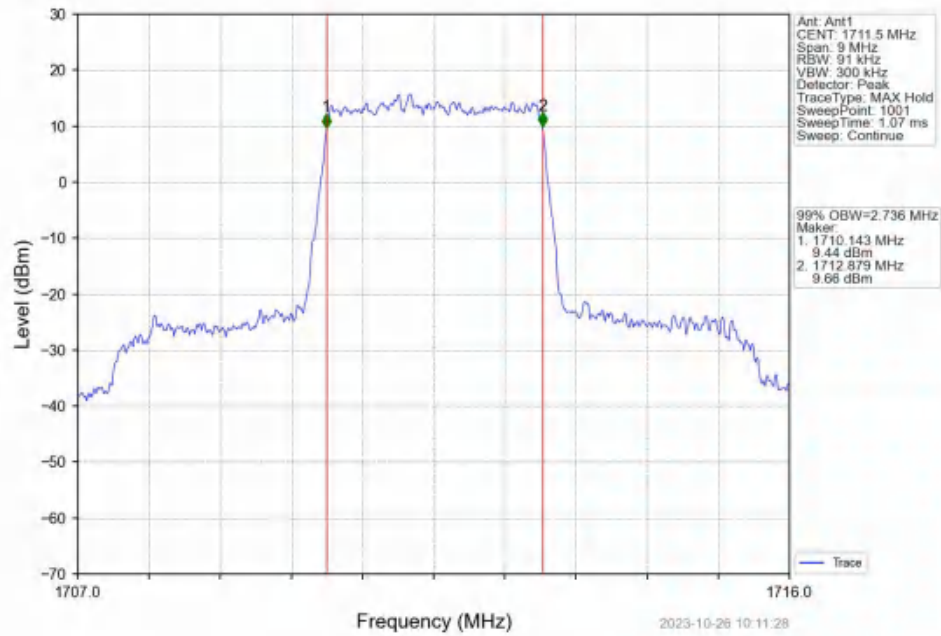
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



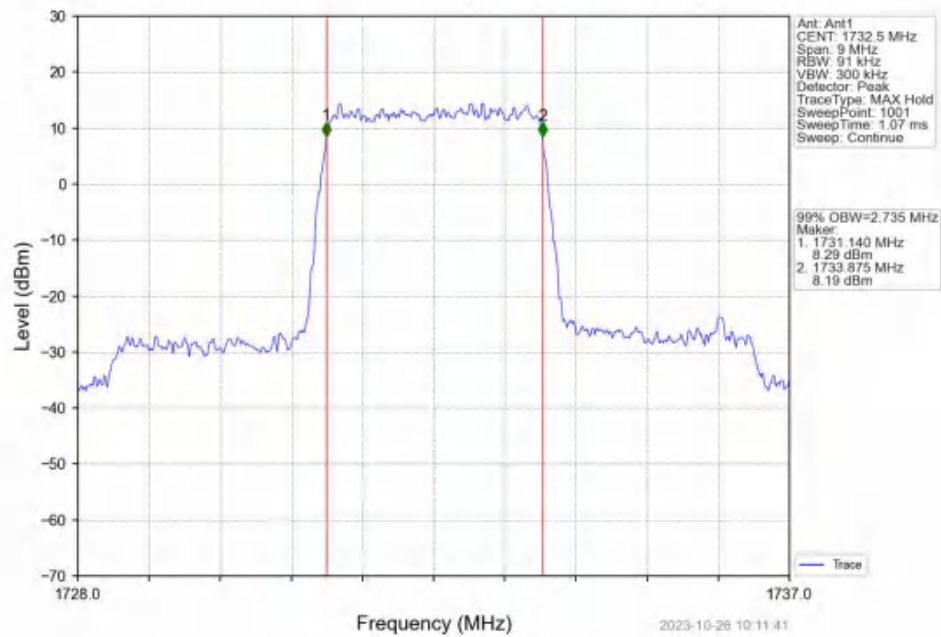
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



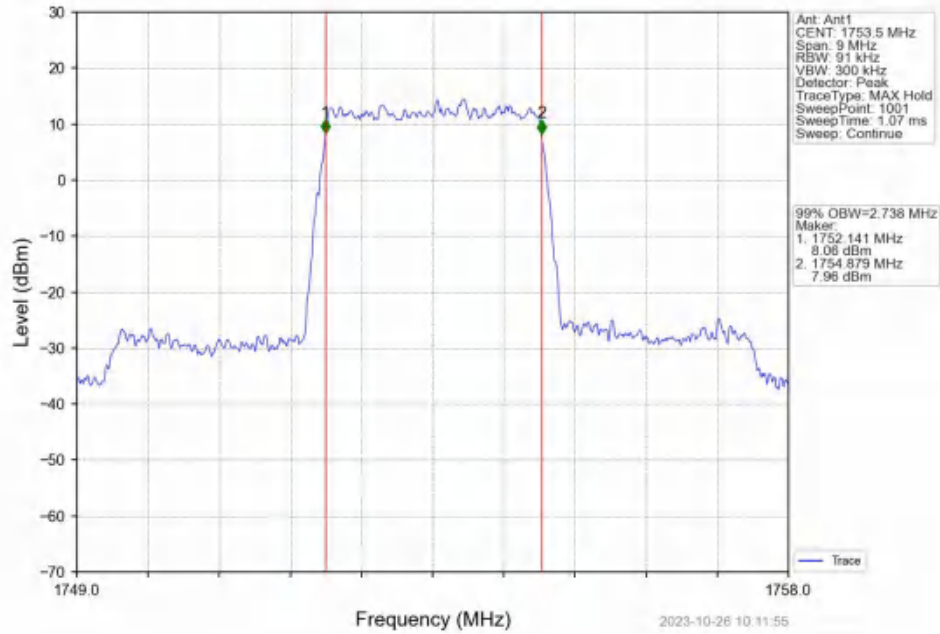
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



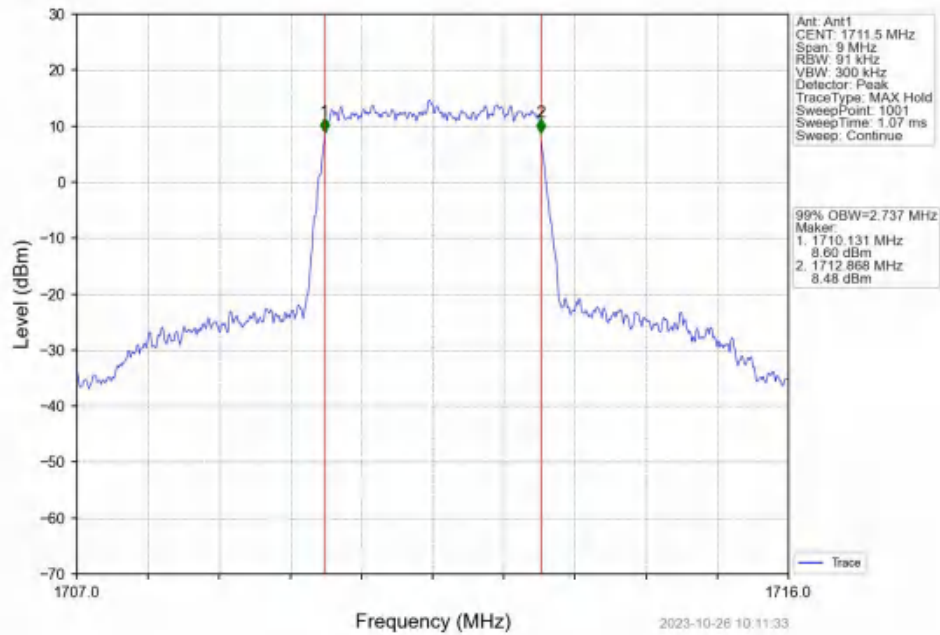
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



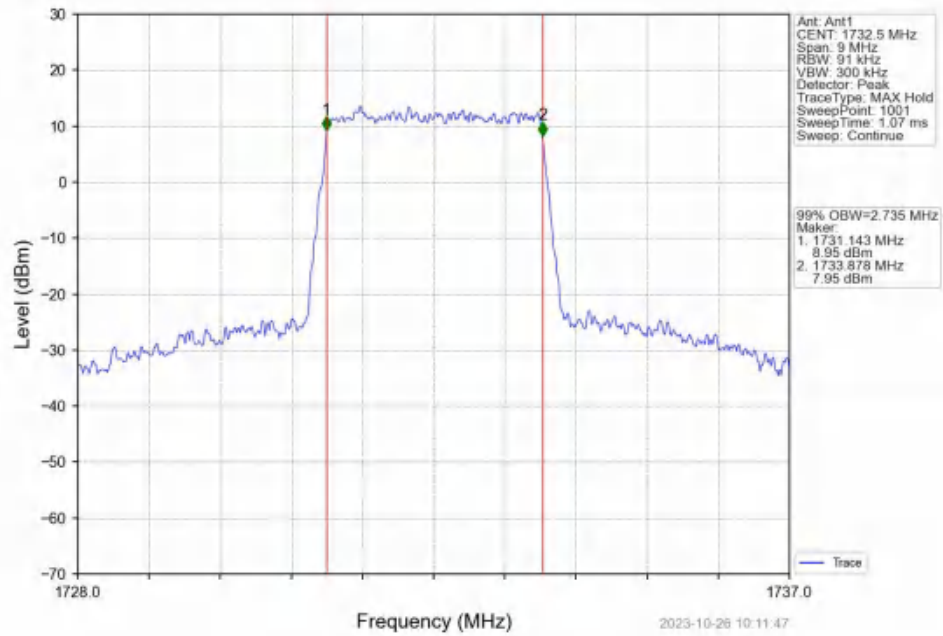
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



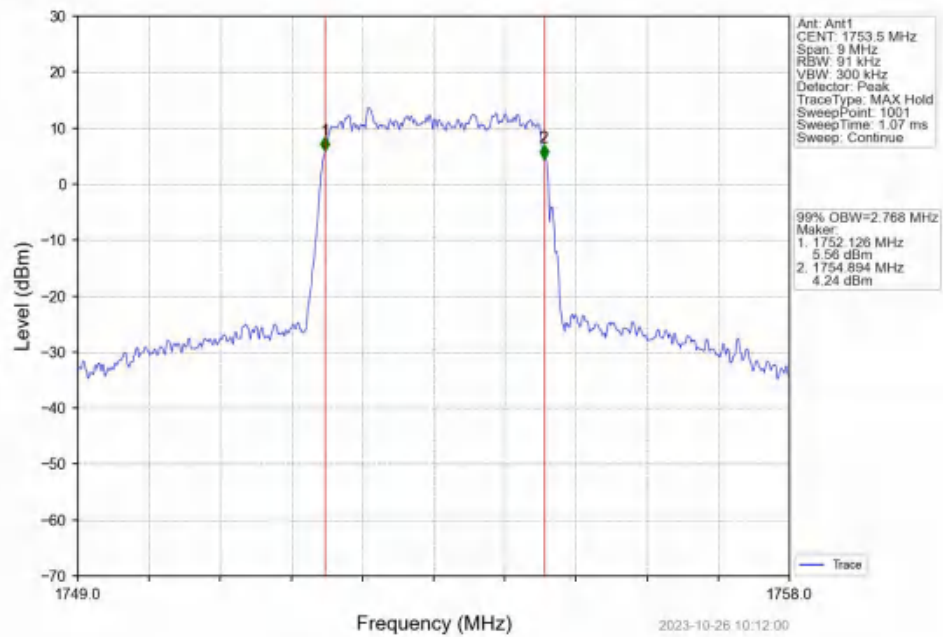
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



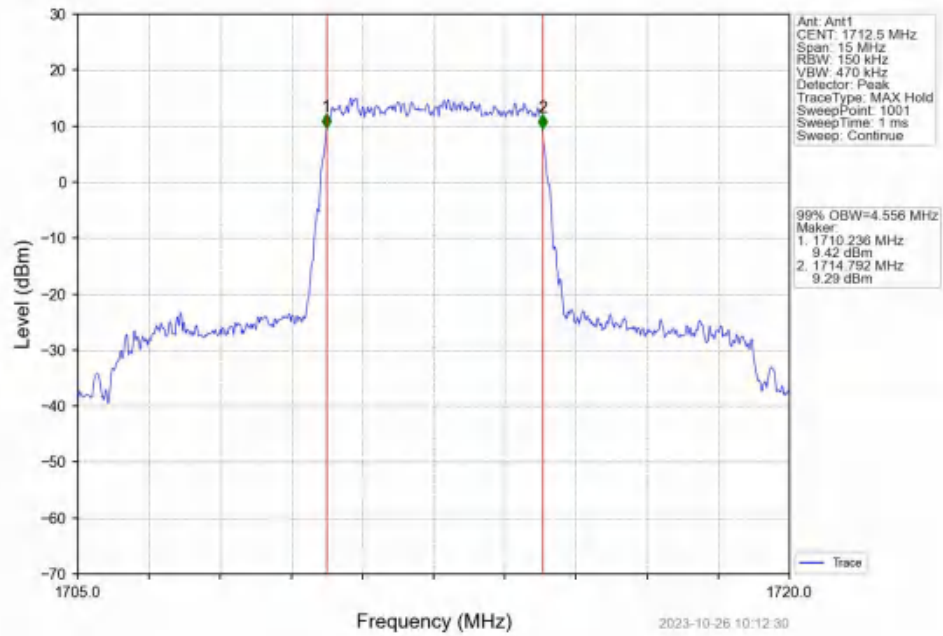
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



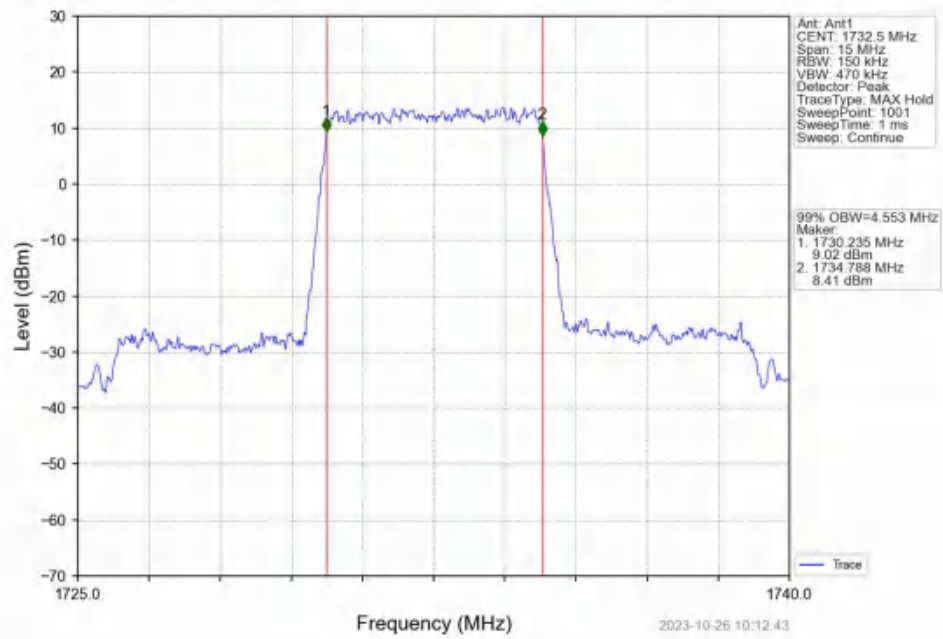
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



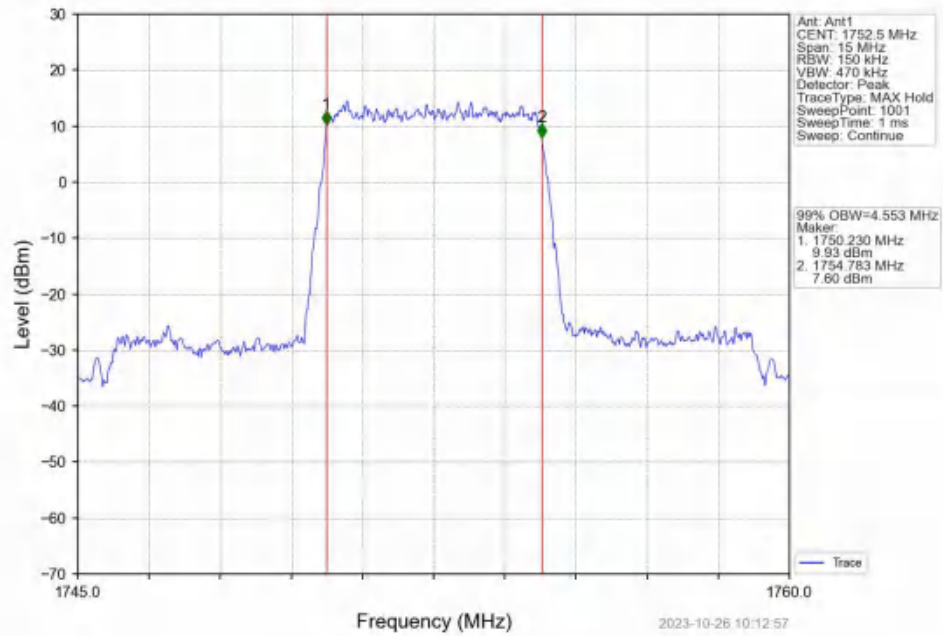
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



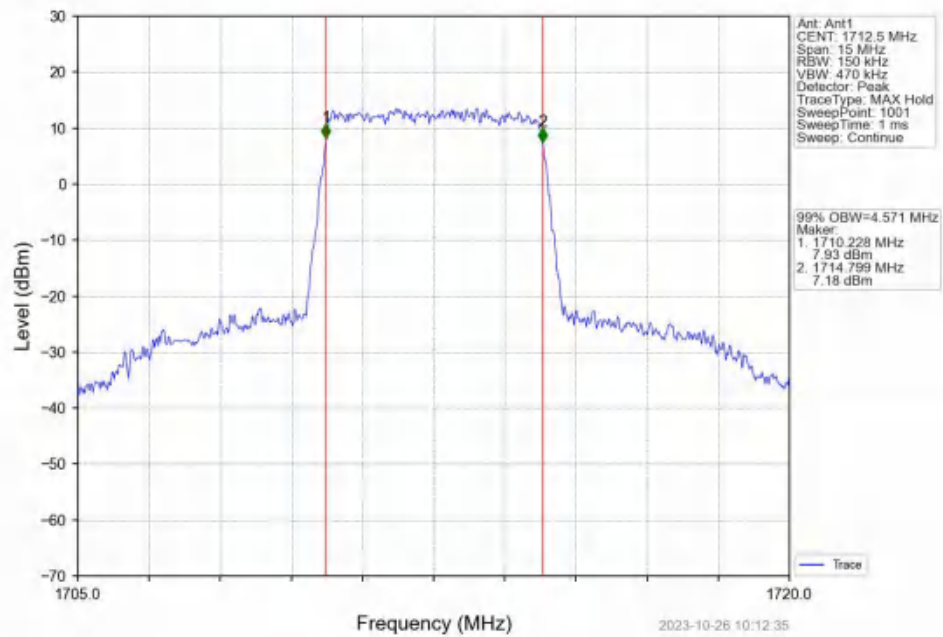
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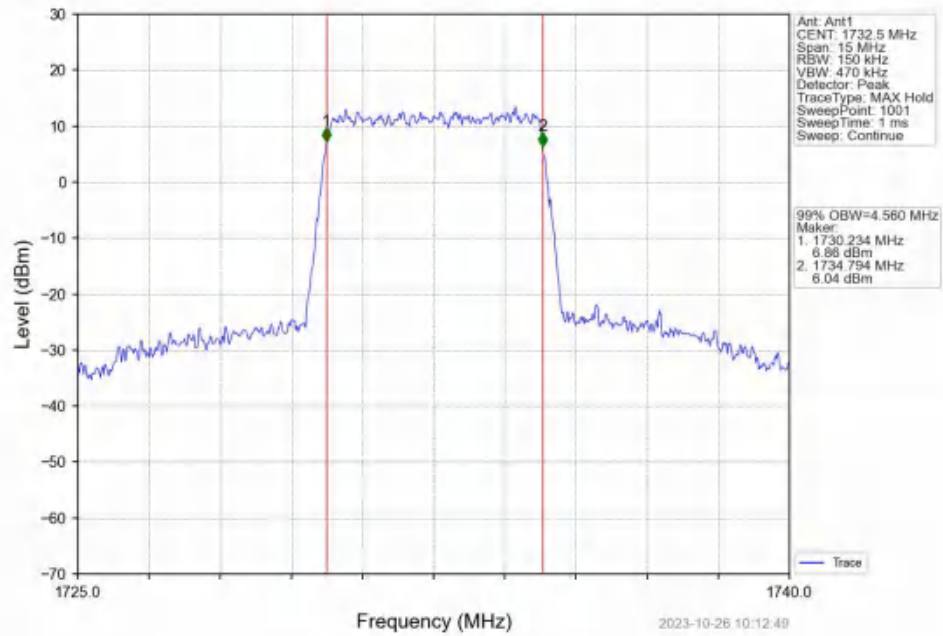
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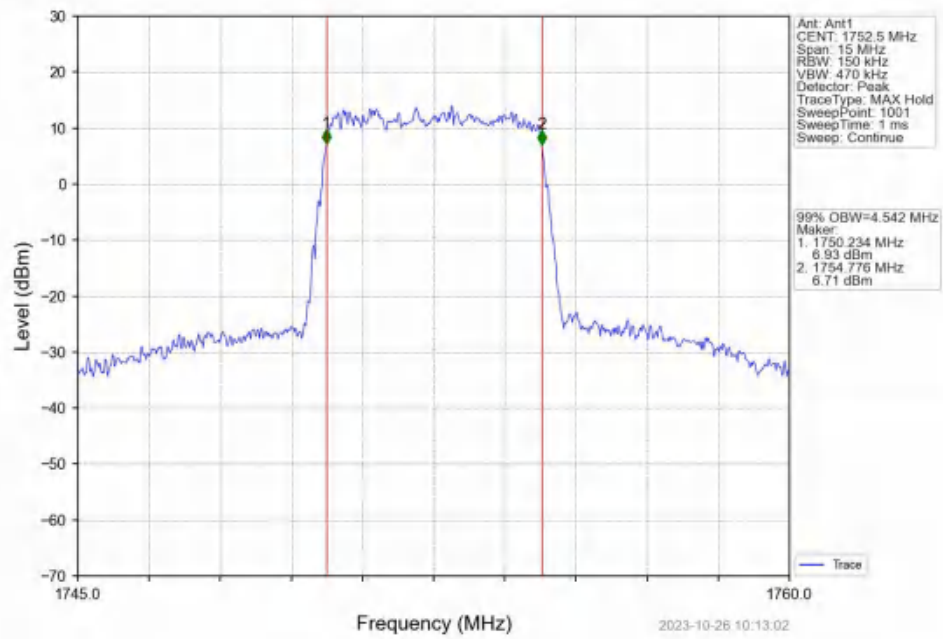
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



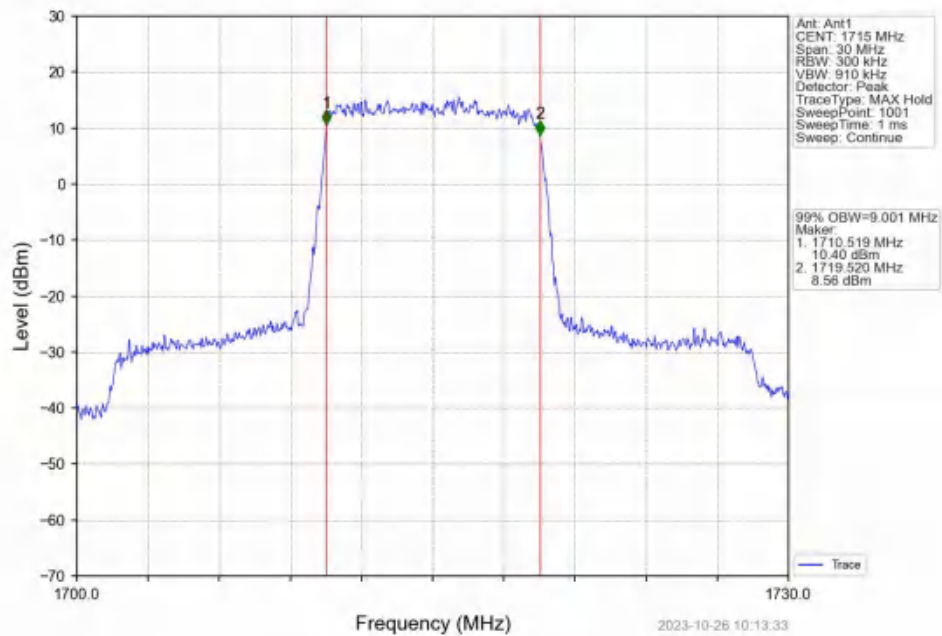
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



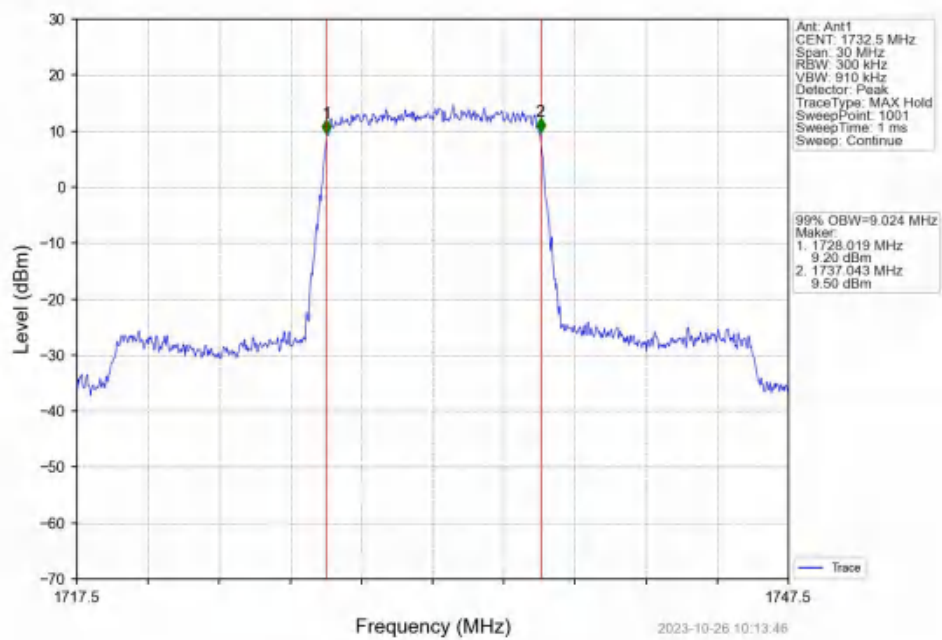
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



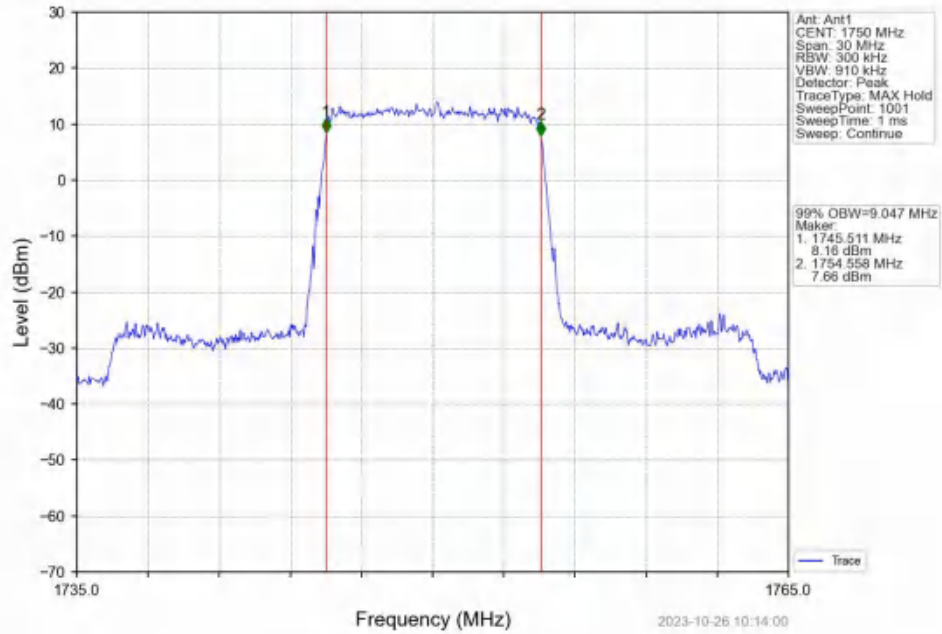
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



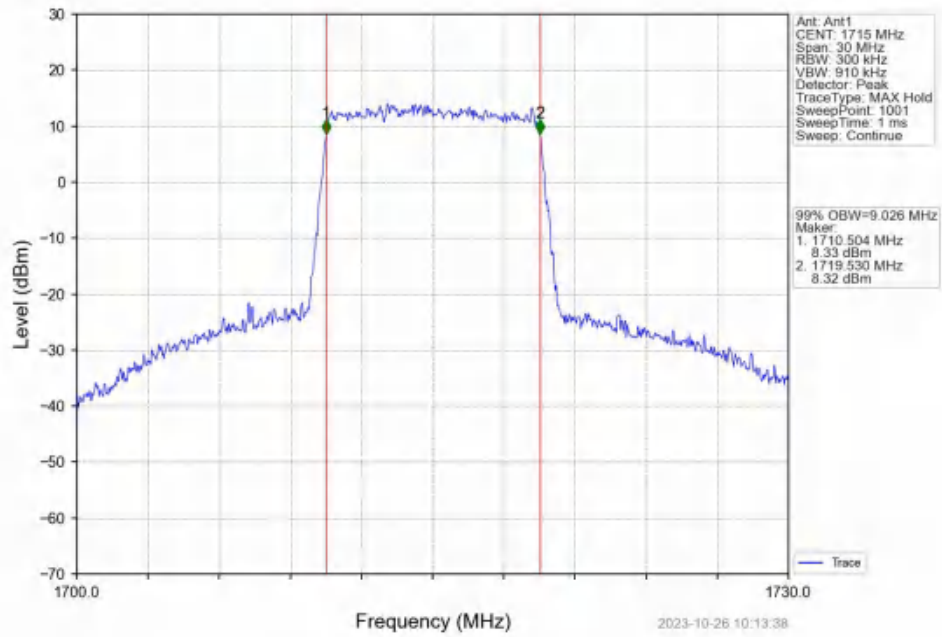
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



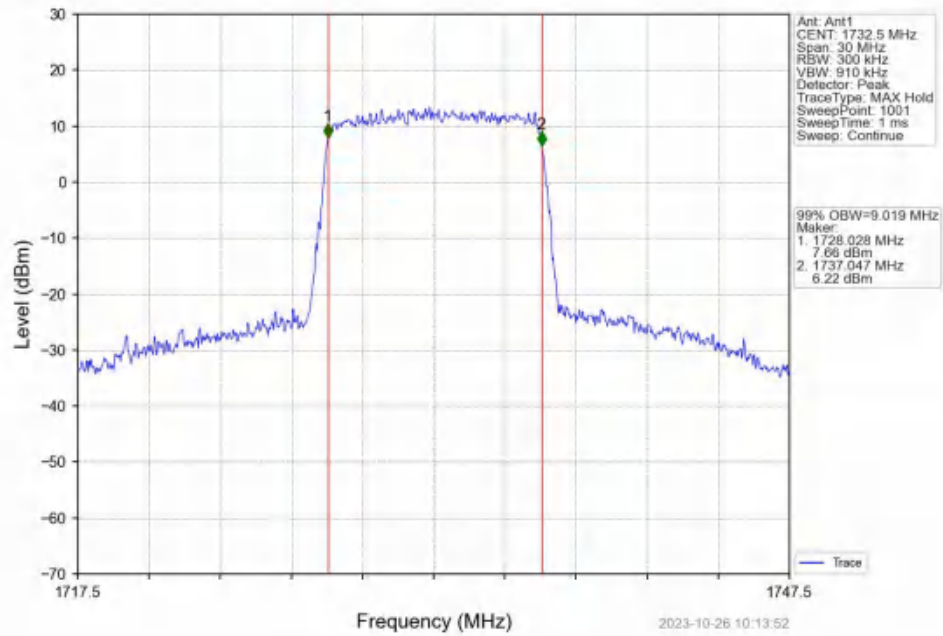
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



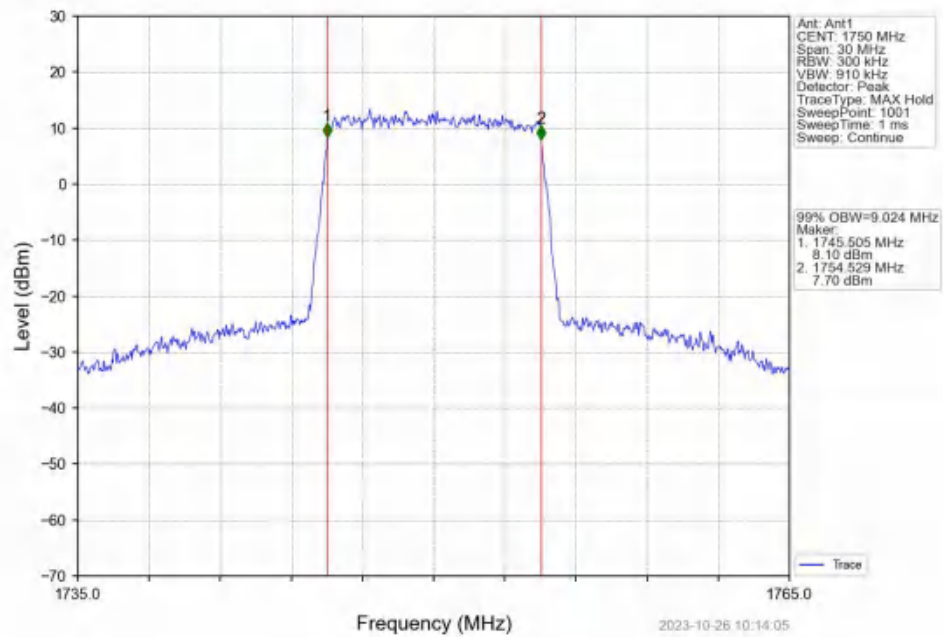
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



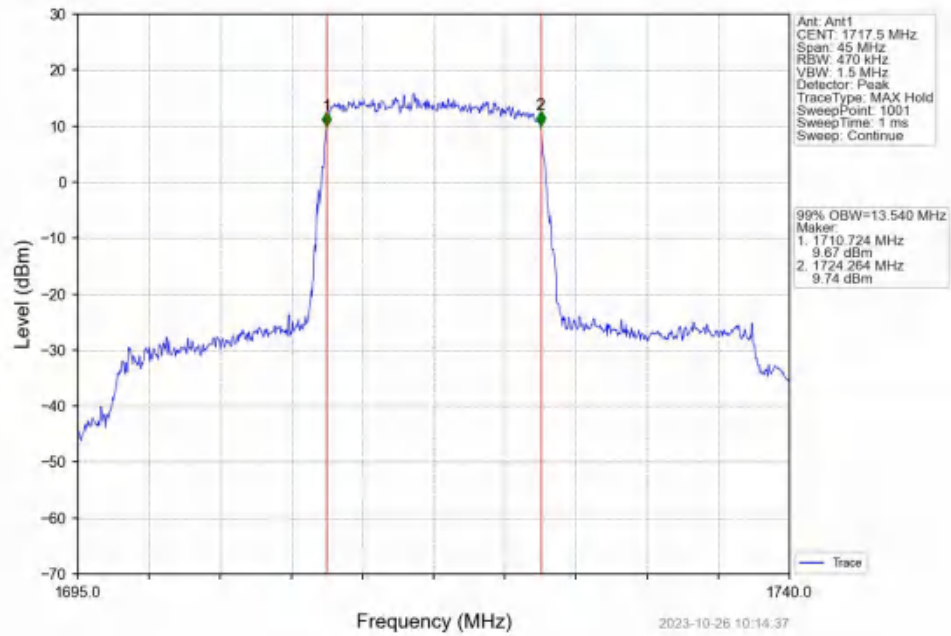
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



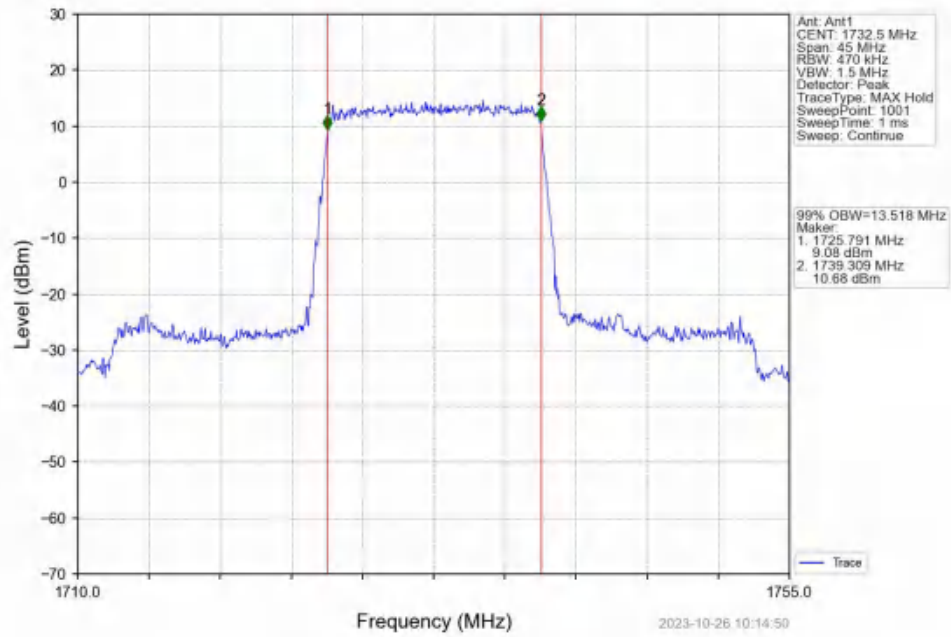
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



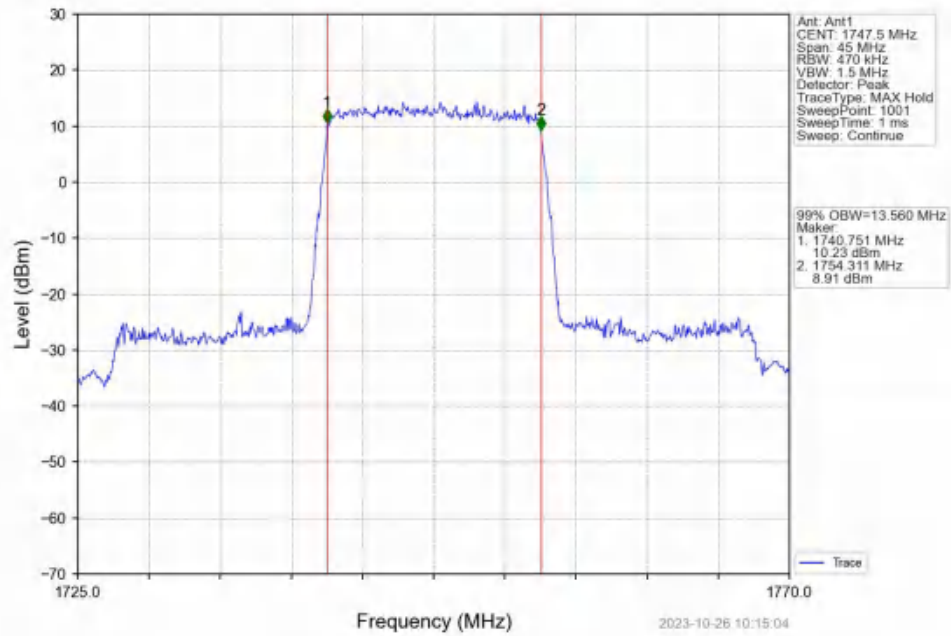
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



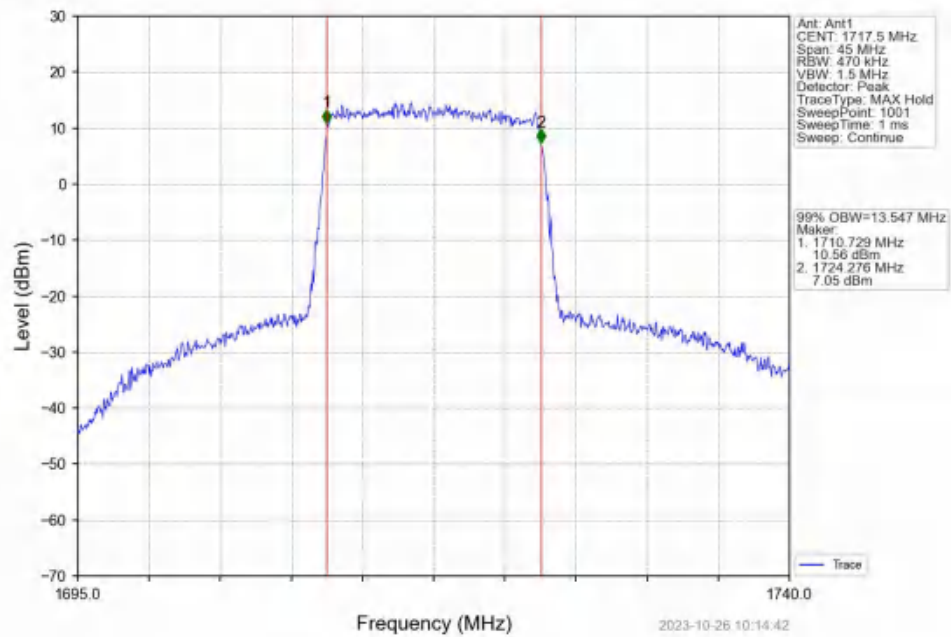
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



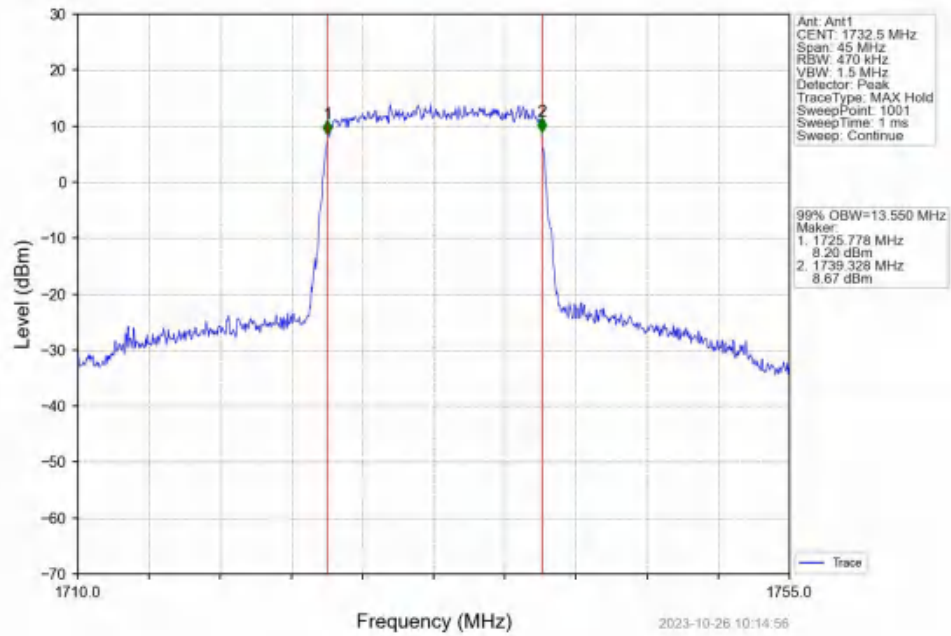
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



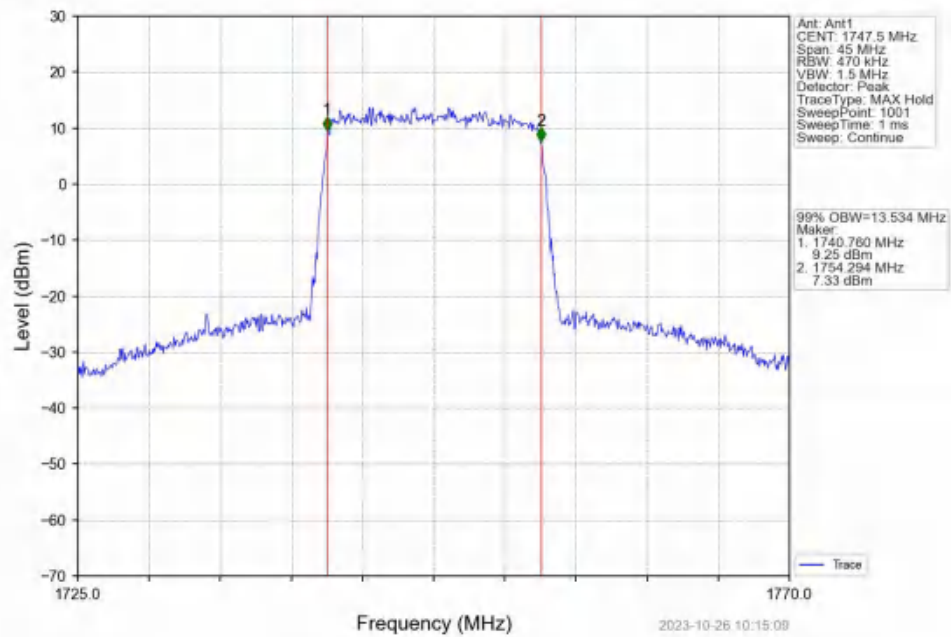
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



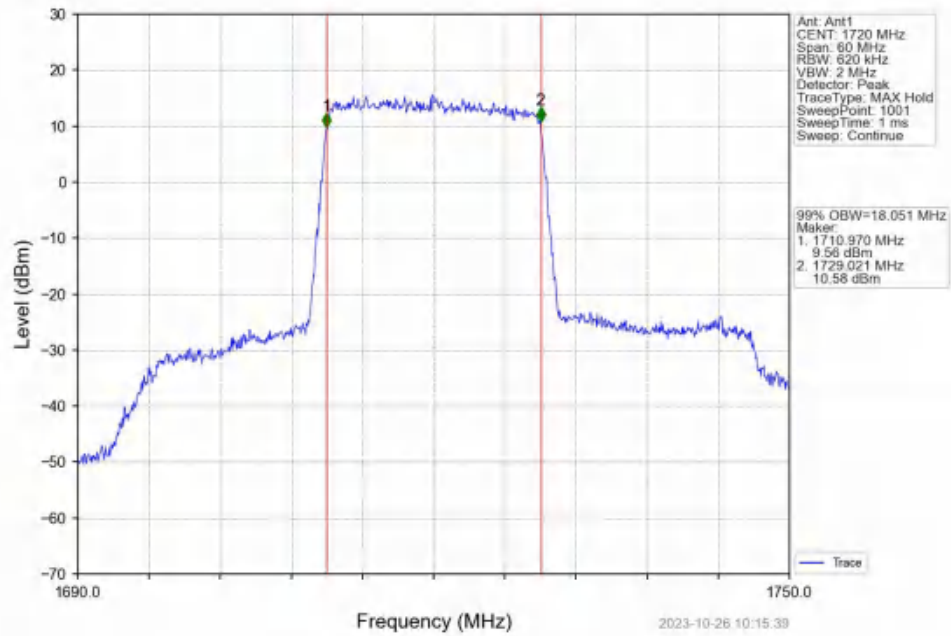
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



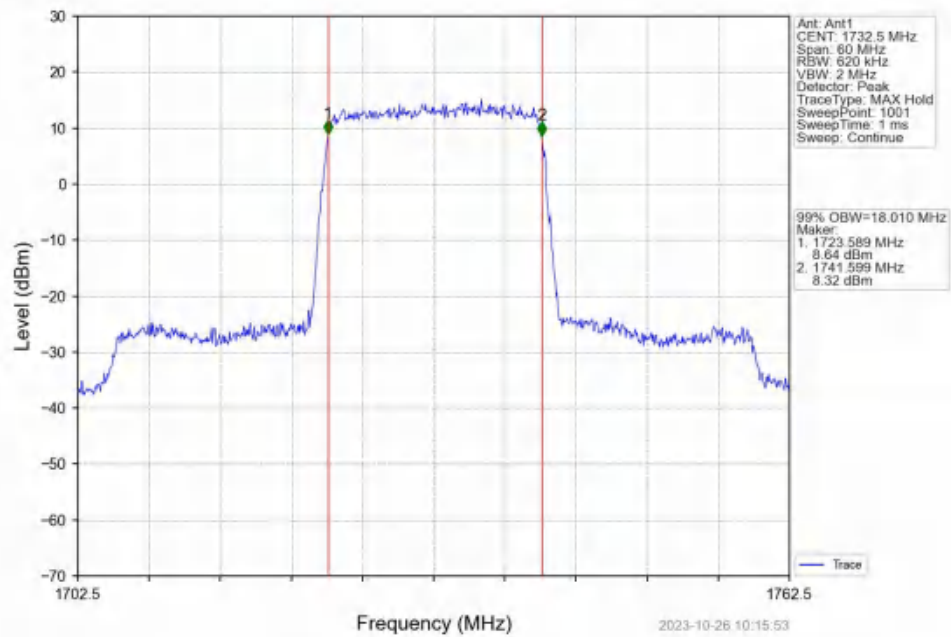
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



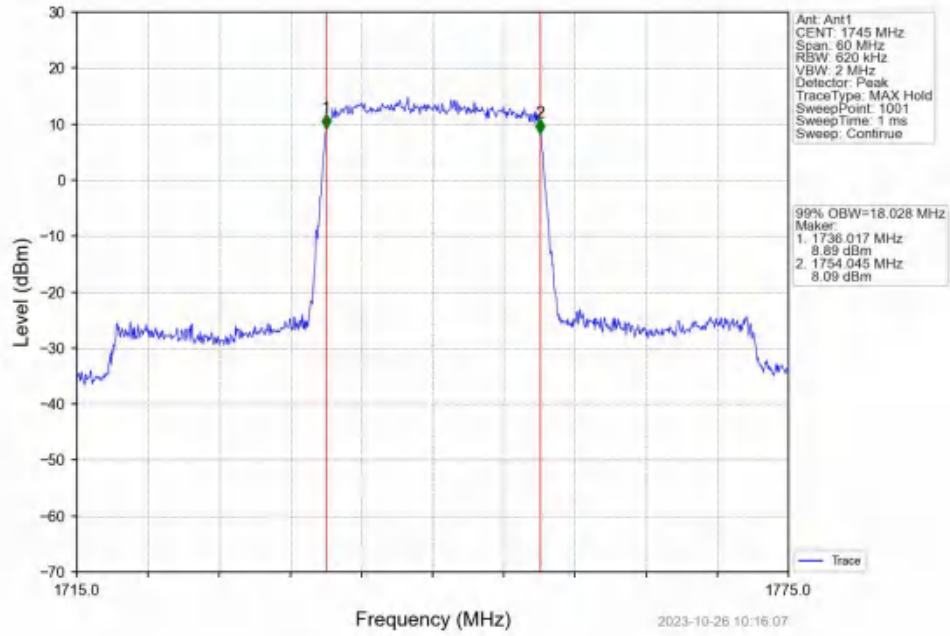
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



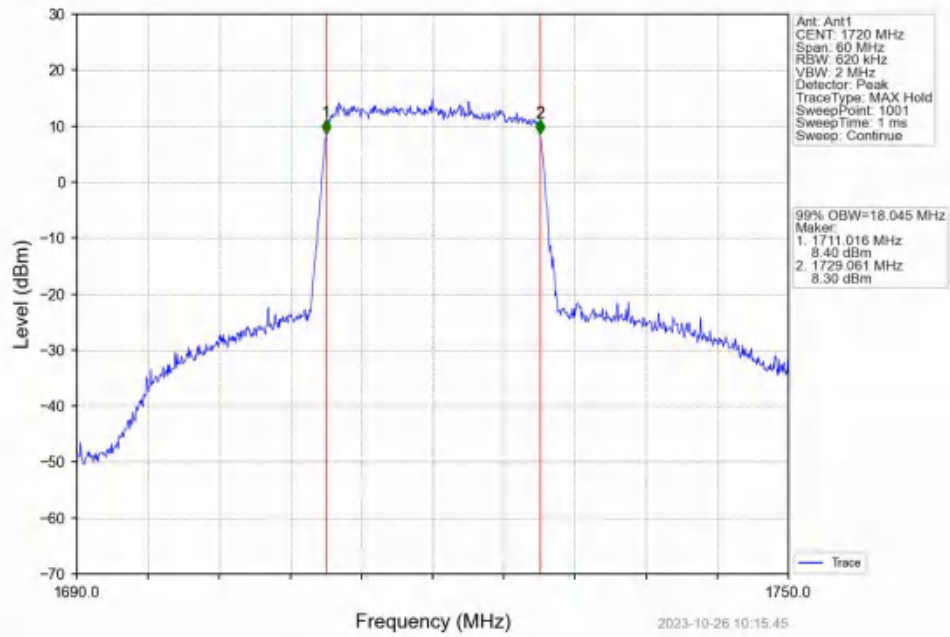
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



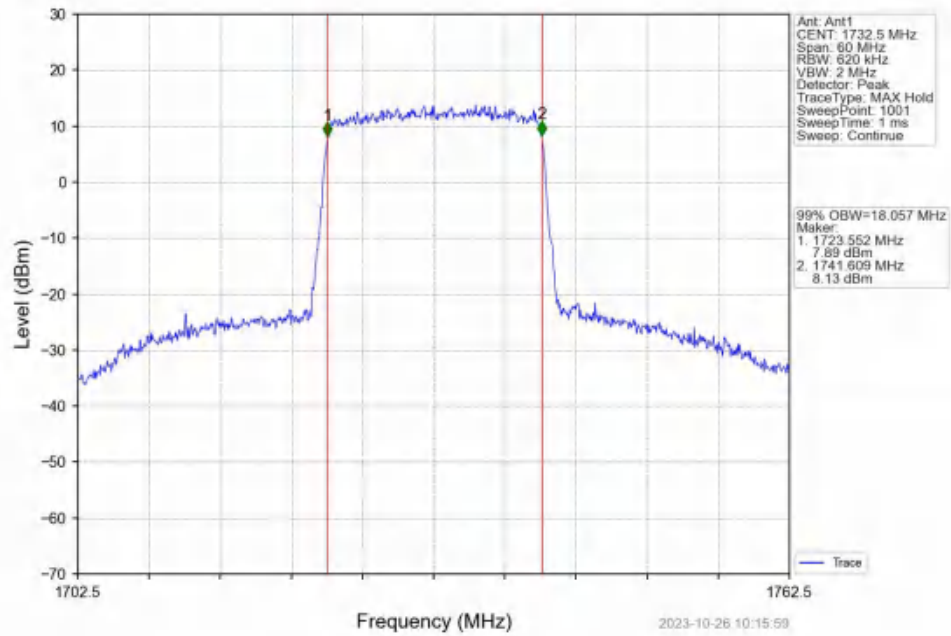
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



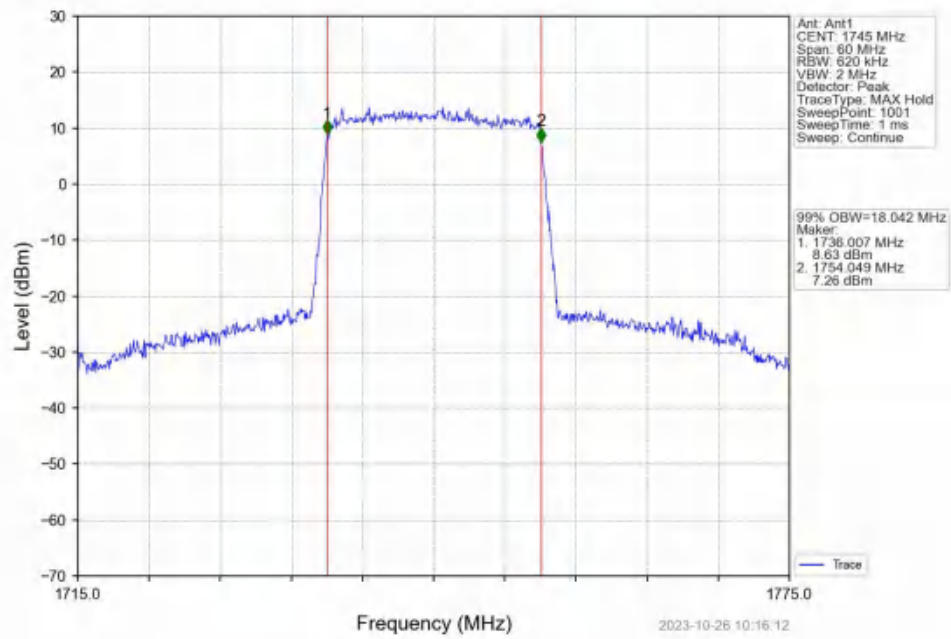
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

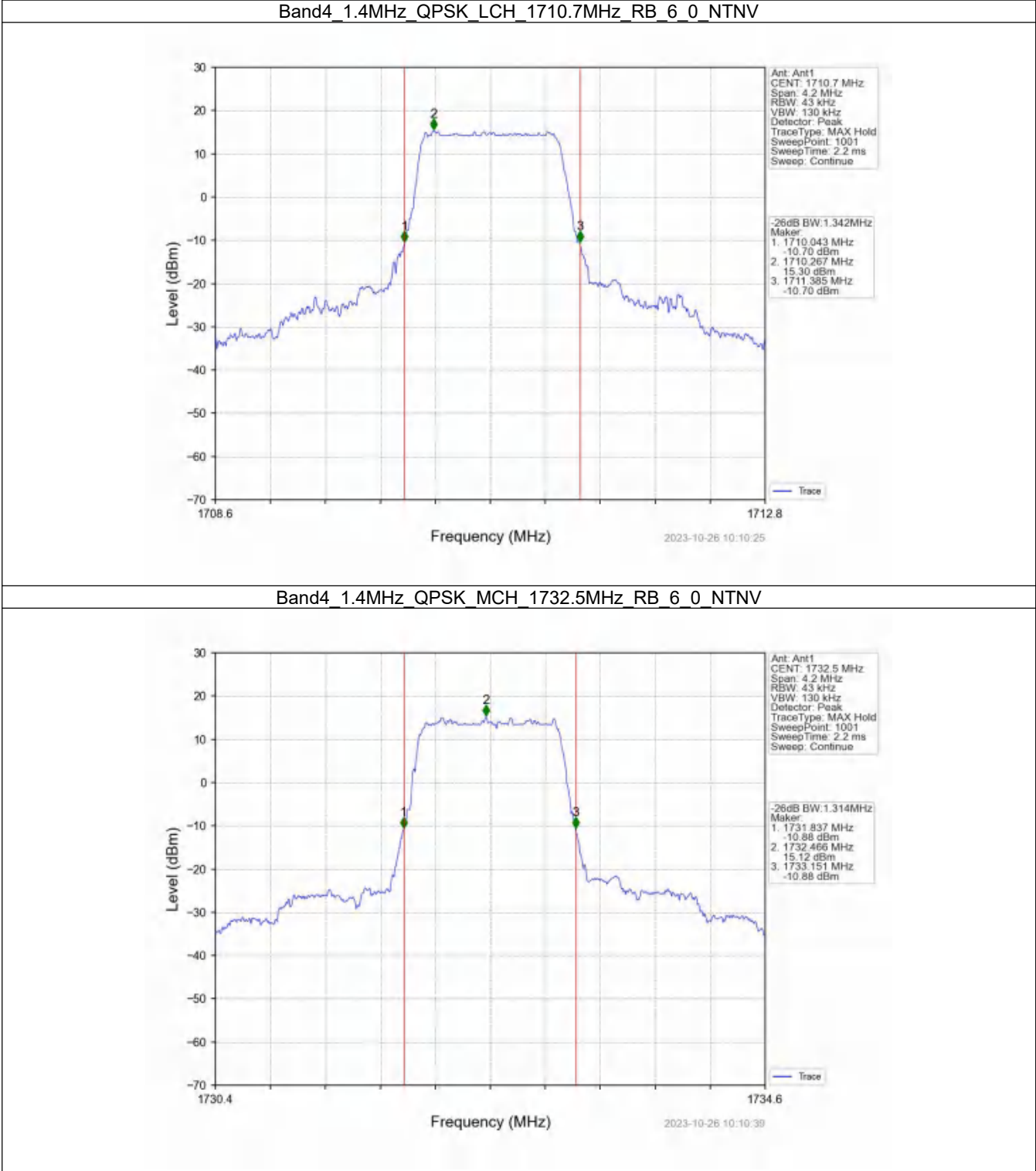


4.2 Band4_XDB

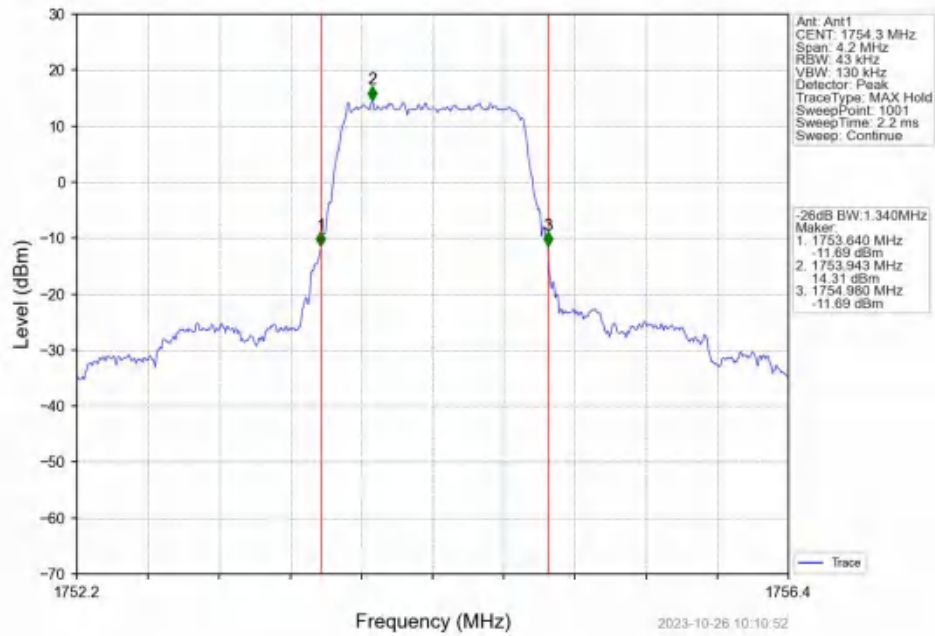
4.2.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.342	/	Pass
		1732.5	6	0	1.314	/	Pass
		1754.3	6	0	1.340	/	Pass
	16QAM	1710.7	6	0	1.328	/	Pass
		1732.5	6	0	1.319	/	Pass
		1754.3	6	0	1.291	/	Pass
3	QPSK	1711.5	15	0	3.042	/	Pass
		1732.5	15	0	3.050	/	Pass
		1753.5	15	0	3.041	/	Pass
	16QAM	1711.5	15	0	3.053	/	Pass
		1732.5	15	0	3.048	/	Pass
		1753.5	15	0	3.067	/	Pass
5	QPSK	1712.5	25	0	5.041	/	Pass
		1732.5	25	0	5.069	/	Pass
		1752.5	25	0	5.101	/	Pass
	16QAM	1712.5	25	0	5.133	/	Pass
		1732.5	25	0	5.091	/	Pass
		1752.5	25	0	5.100	/	Pass
10	QPSK	1715	50	0	9.970	/	Pass
		1732.5	50	0	10.034	/	Pass
		1750	50	0	10.081	/	Pass
	16QAM	1715	50	0	9.953	/	Pass
		1732.5	50	0	9.982	/	Pass
		1750	50	0	9.996	/	Pass
15	QPSK	1717.5	75	0	14.912	/	Pass
		1732.5	75	0	15.079	/	Pass
		1747.5	75	0	15.037	/	Pass
	16QAM	1717.5	75	0	15.009	/	Pass
		1732.5	75	0	14.866	/	Pass
		1747.5	75	0	14.868	/	Pass
20	QPSK	1720	100	0	19.843	/	Pass
		1732.5	100	0	19.760	/	Pass
		1745	100	0	19.740	/	Pass
	16QAM	1720	100	0	19.590	/	Pass
		1732.5	100	0	19.899	/	Pass
		1745	100	0	19.729	/	Pass

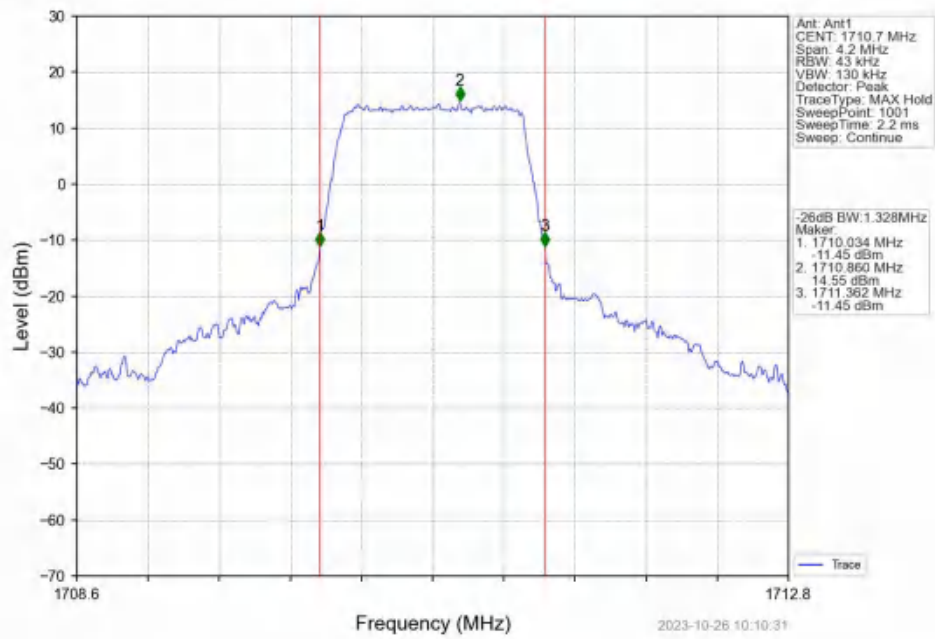
4.2.2 Test Graph



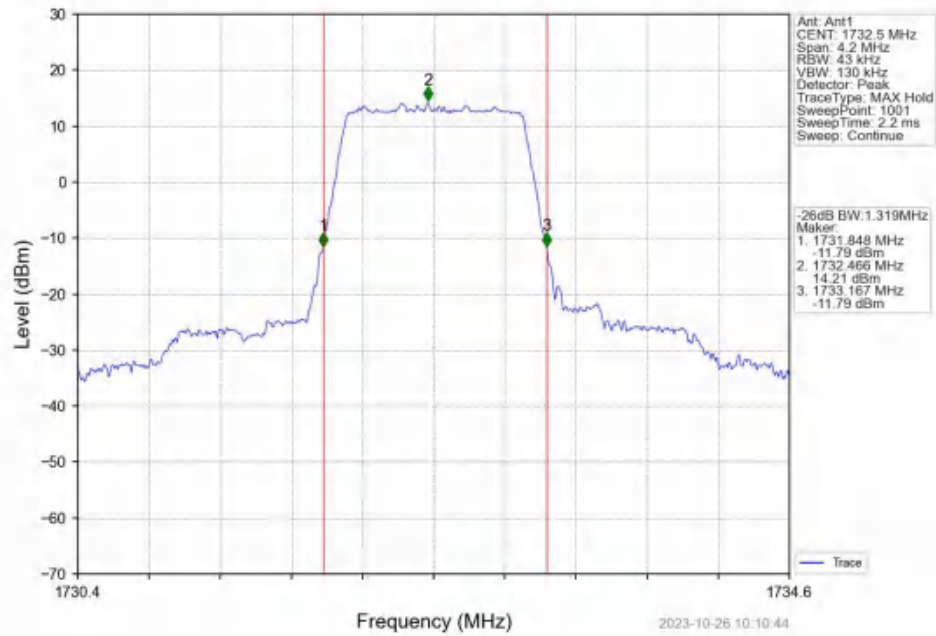
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



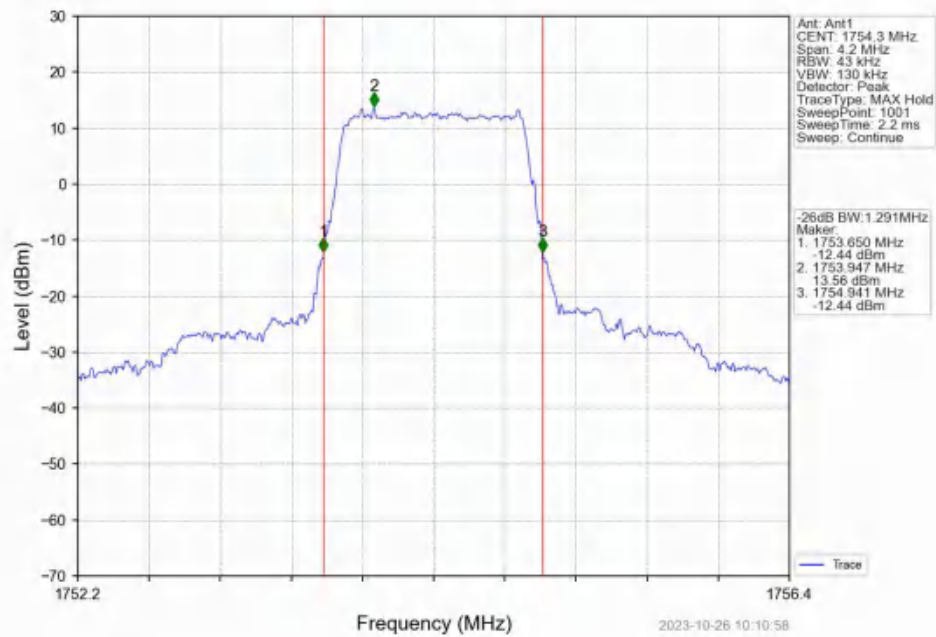
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



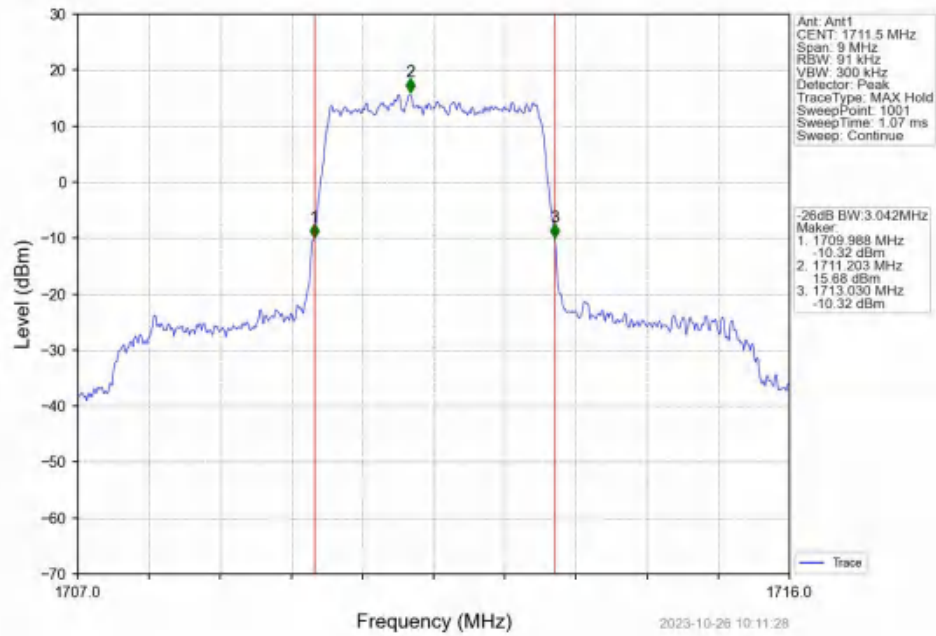
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



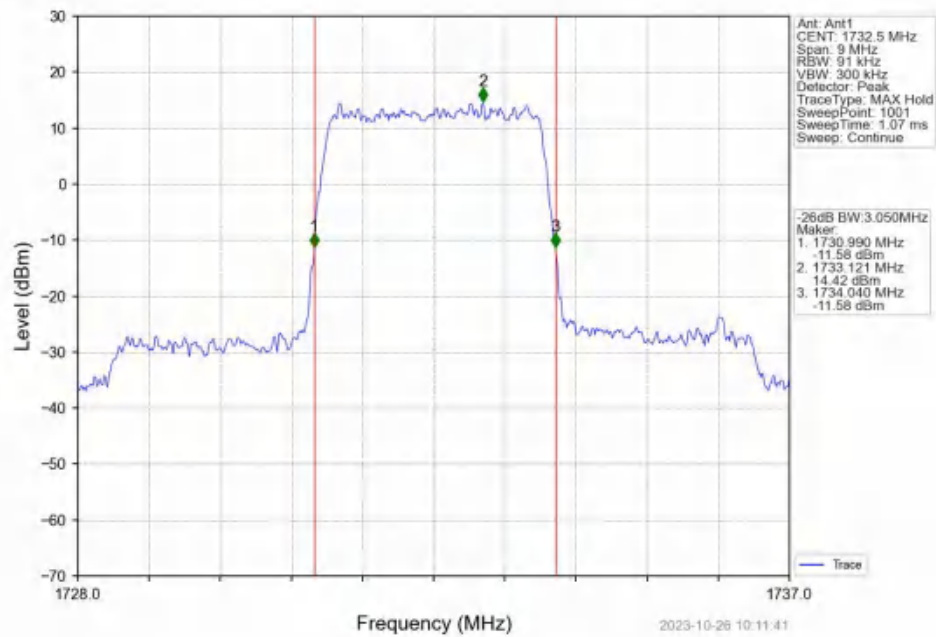
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



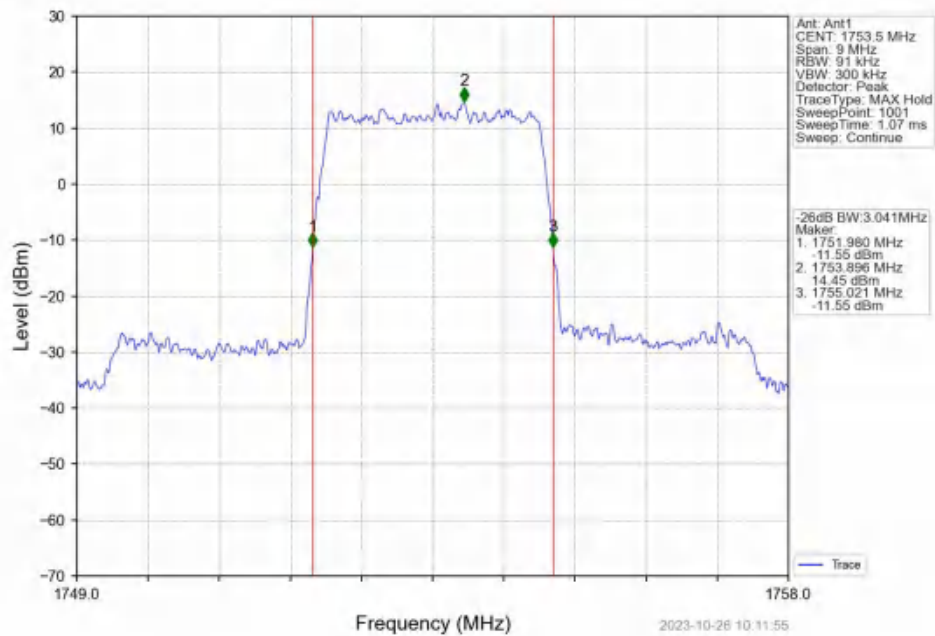
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



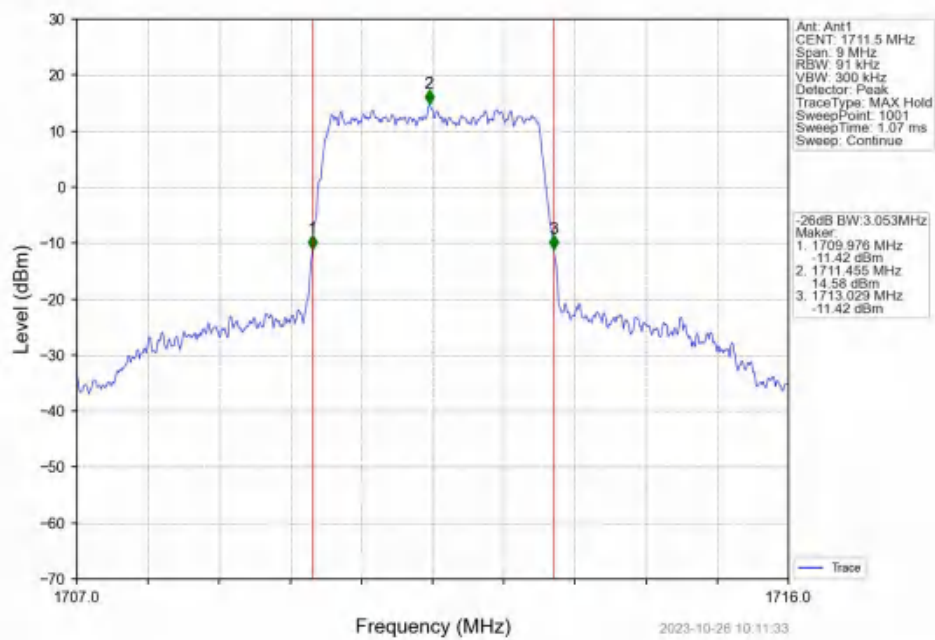
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



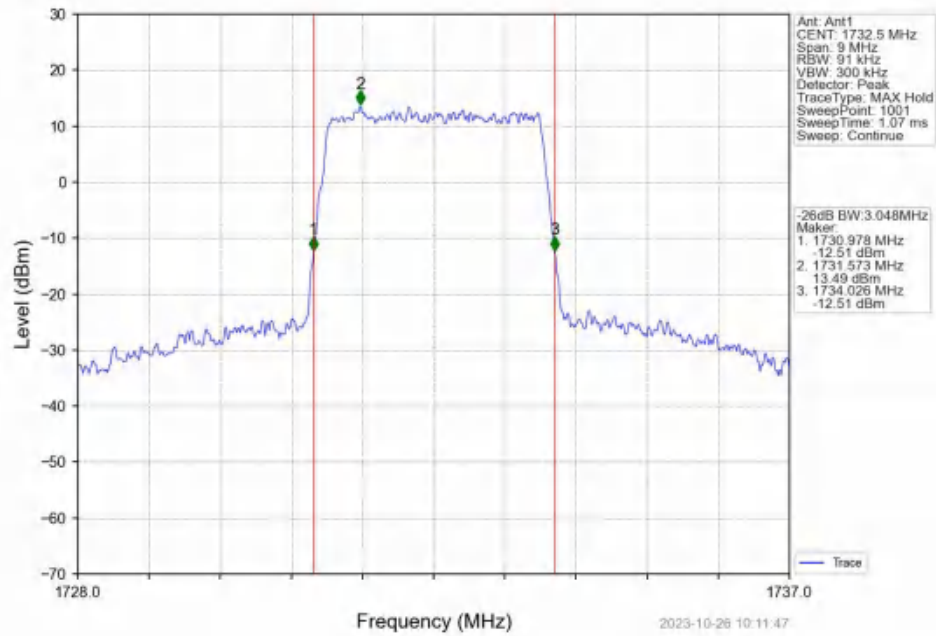
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



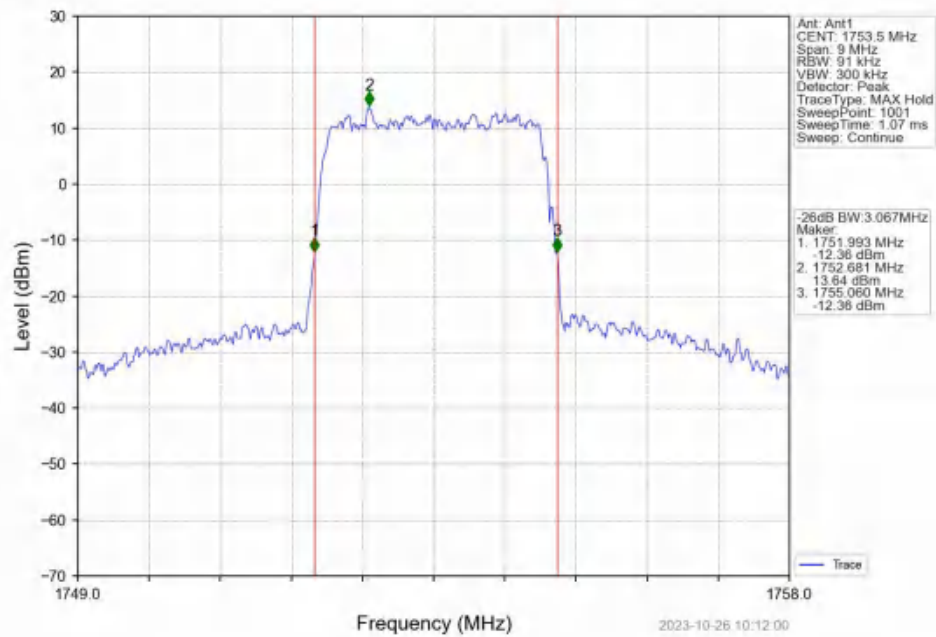
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



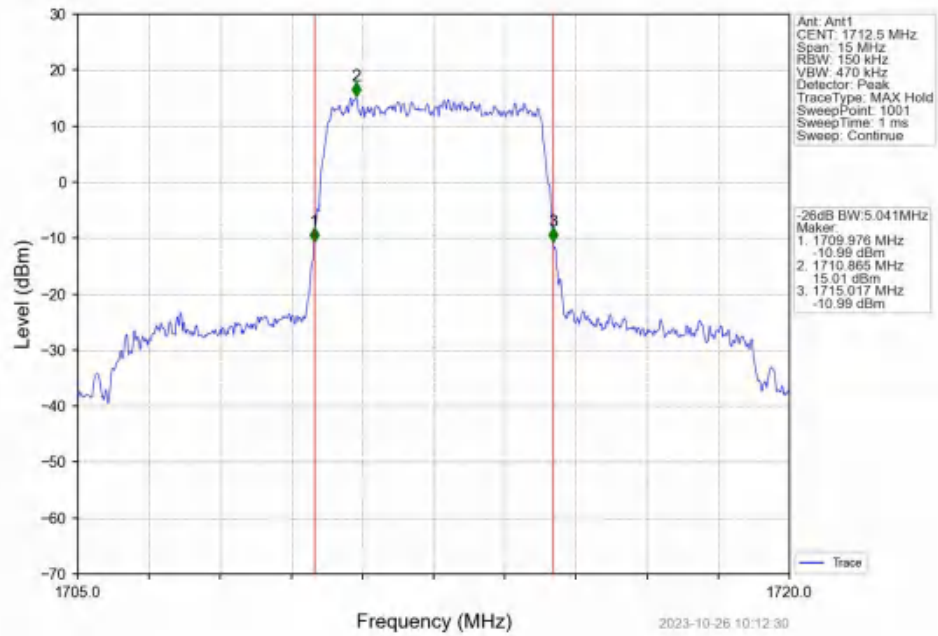
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



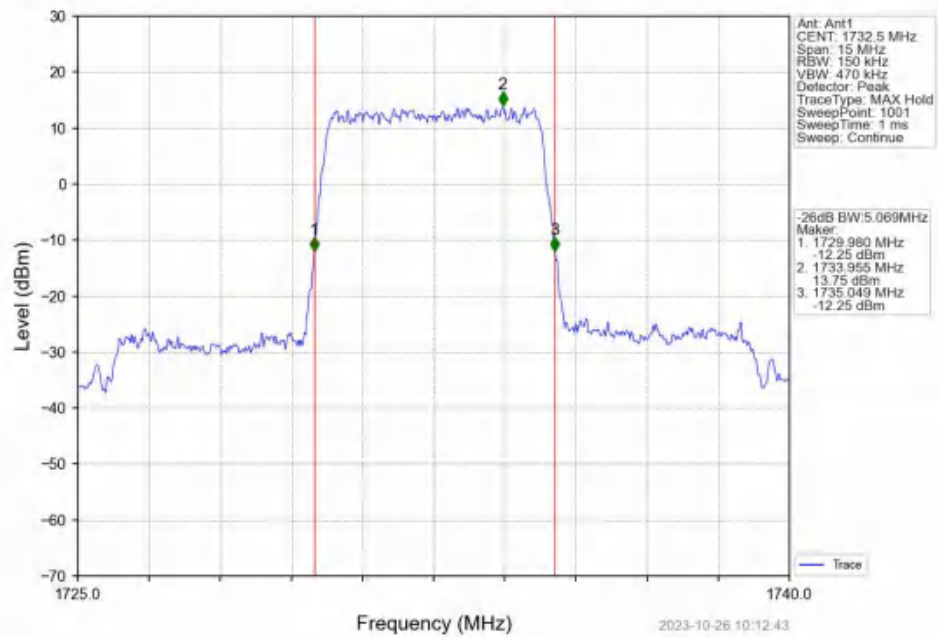
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



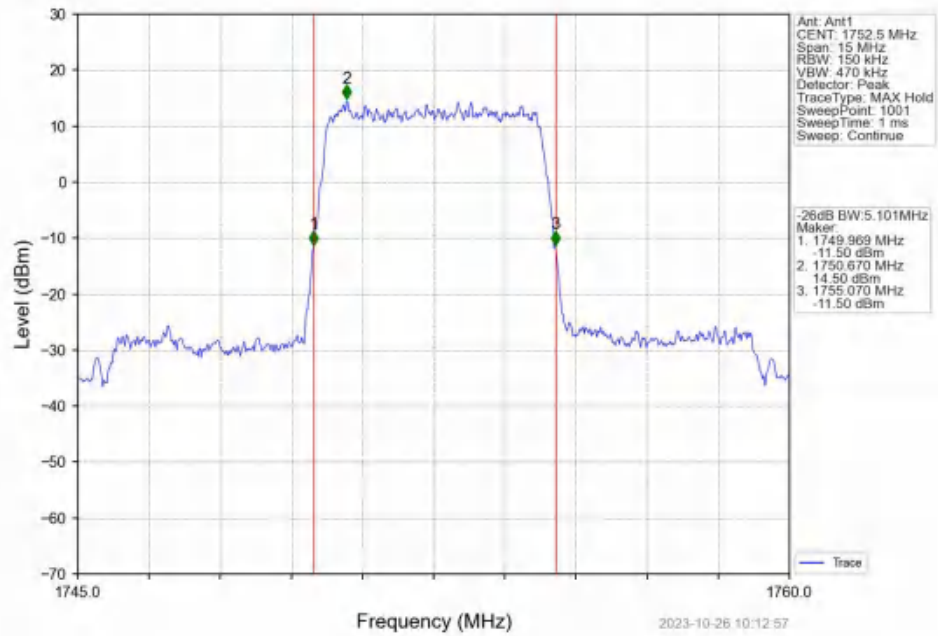
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



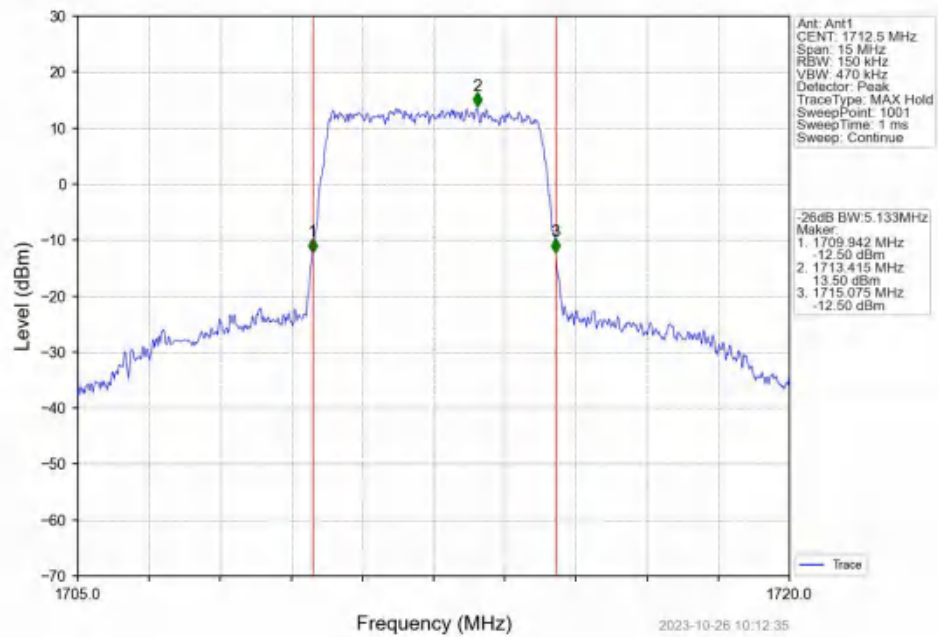
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



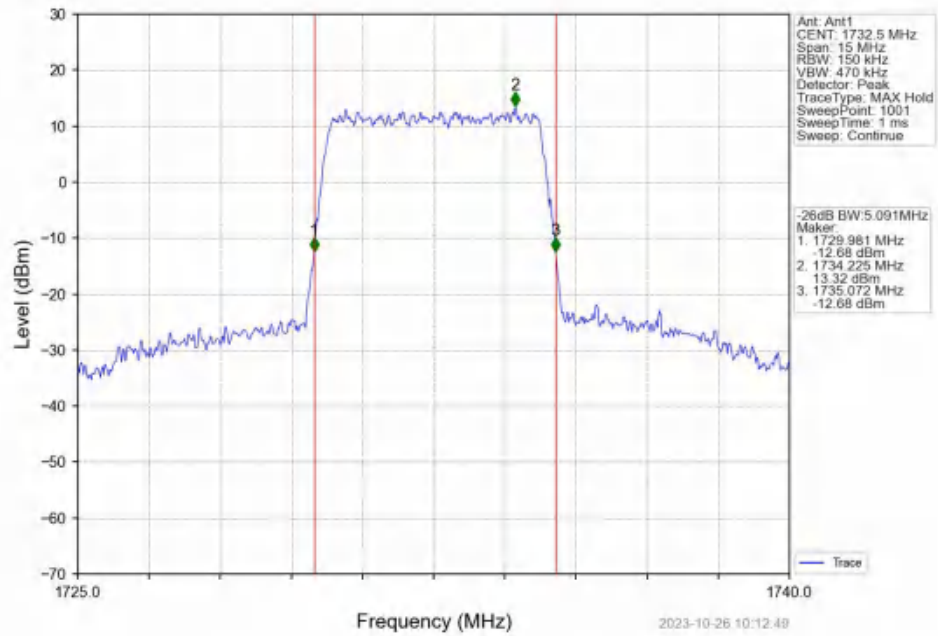
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



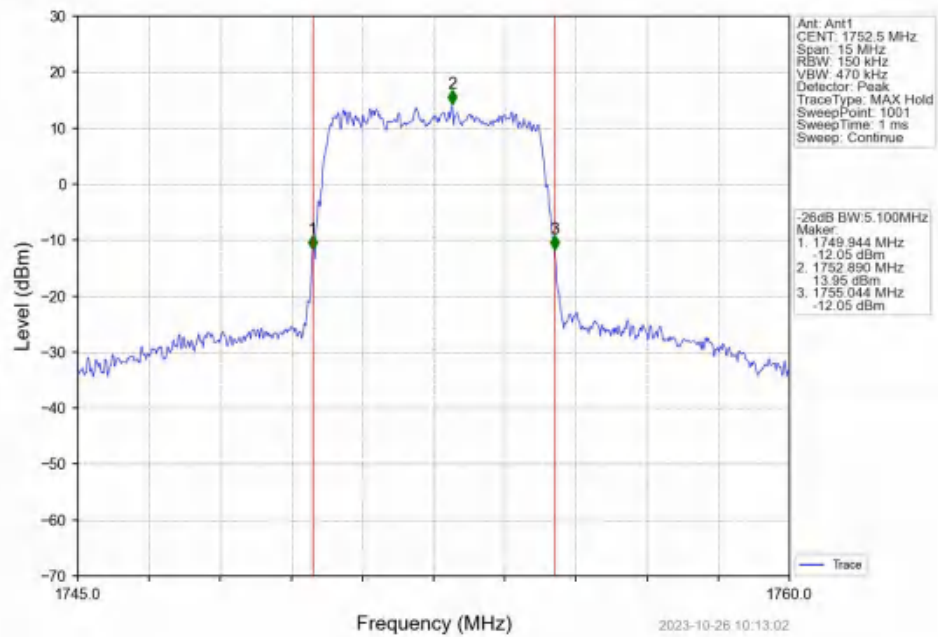
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



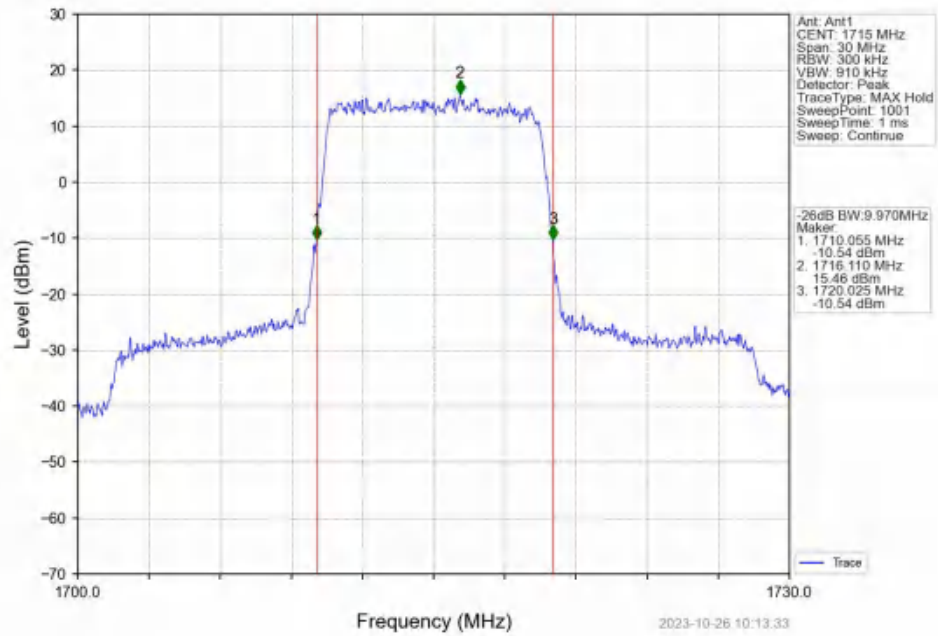
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



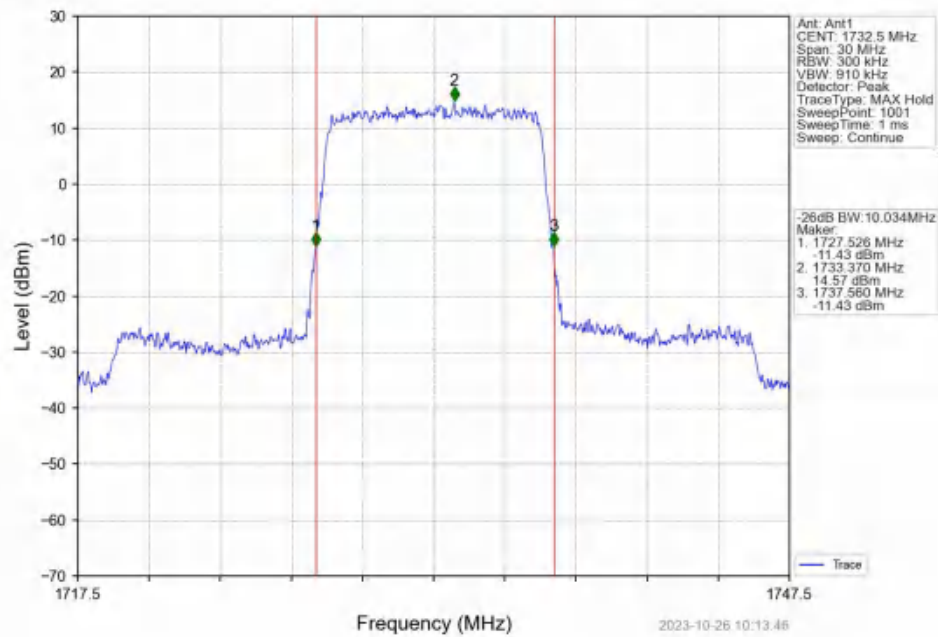
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



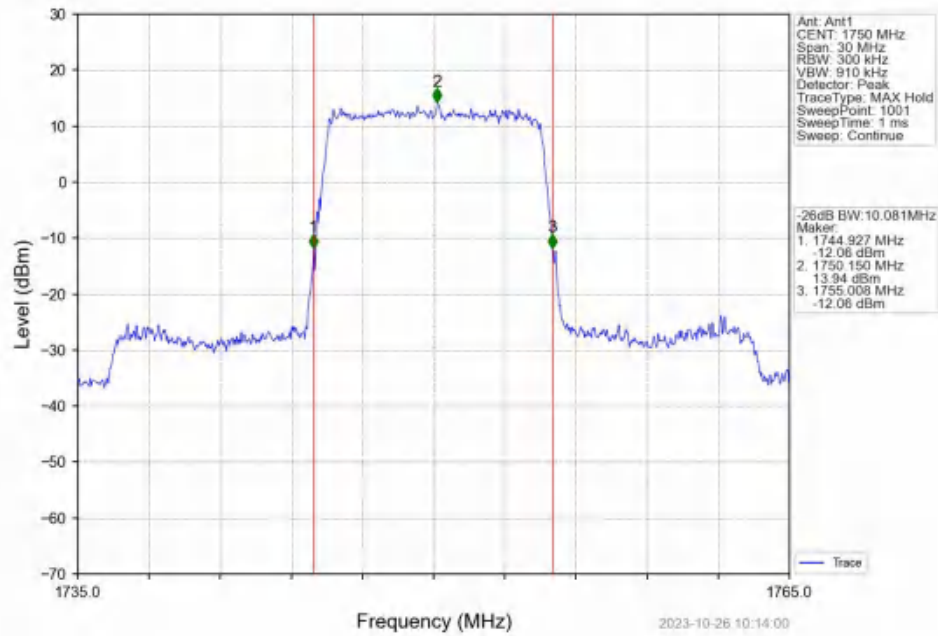
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



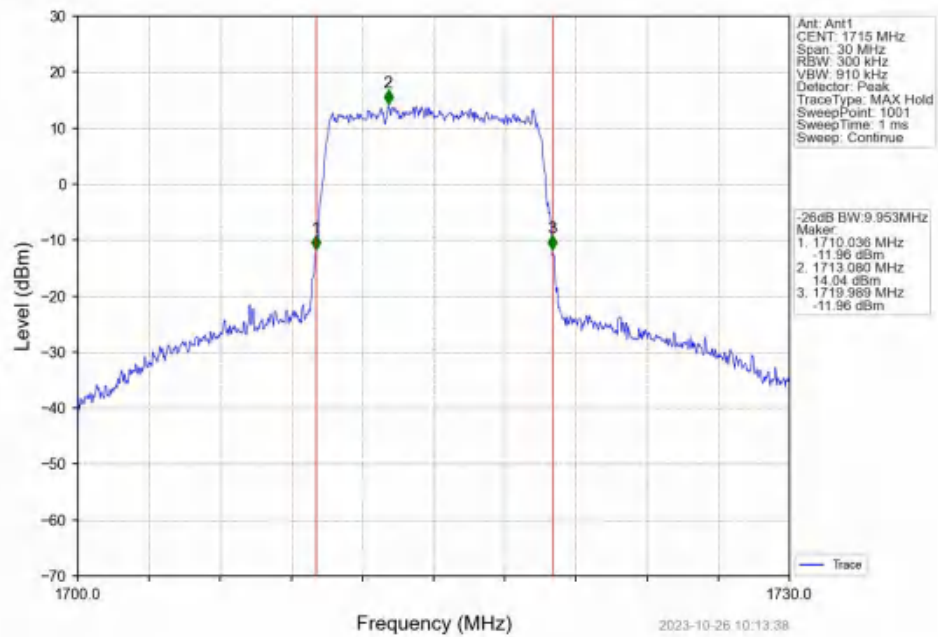
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



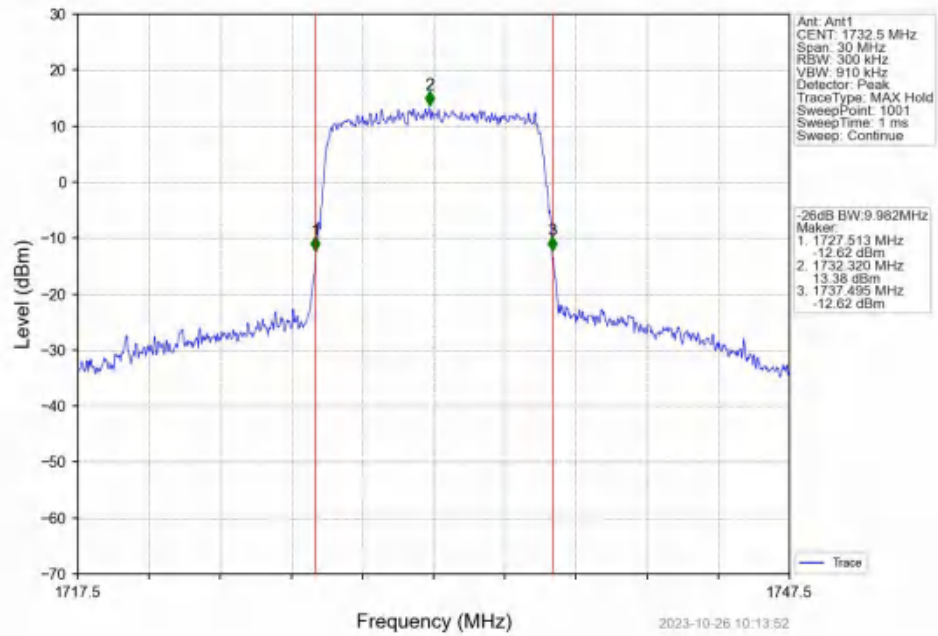
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



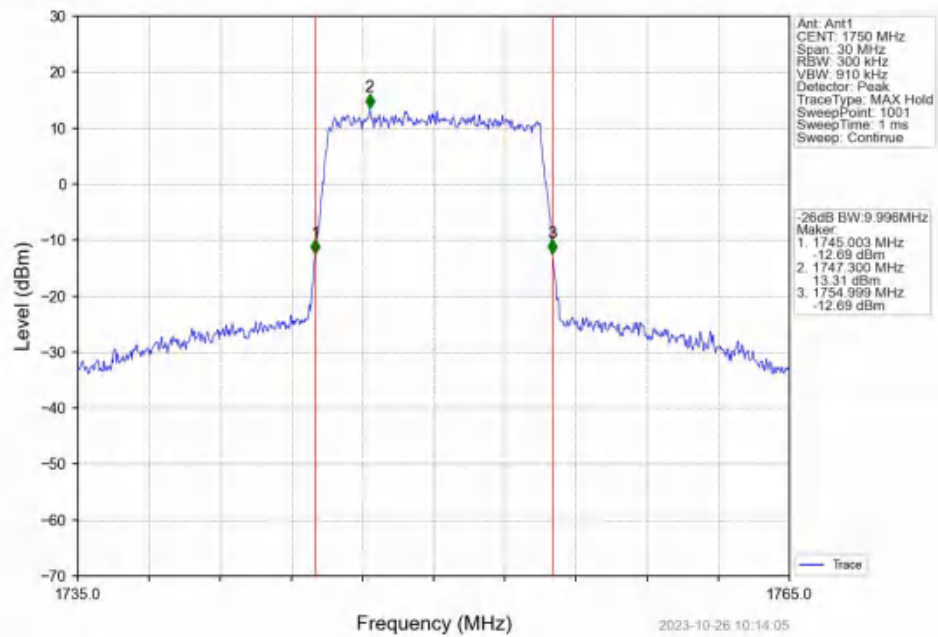
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



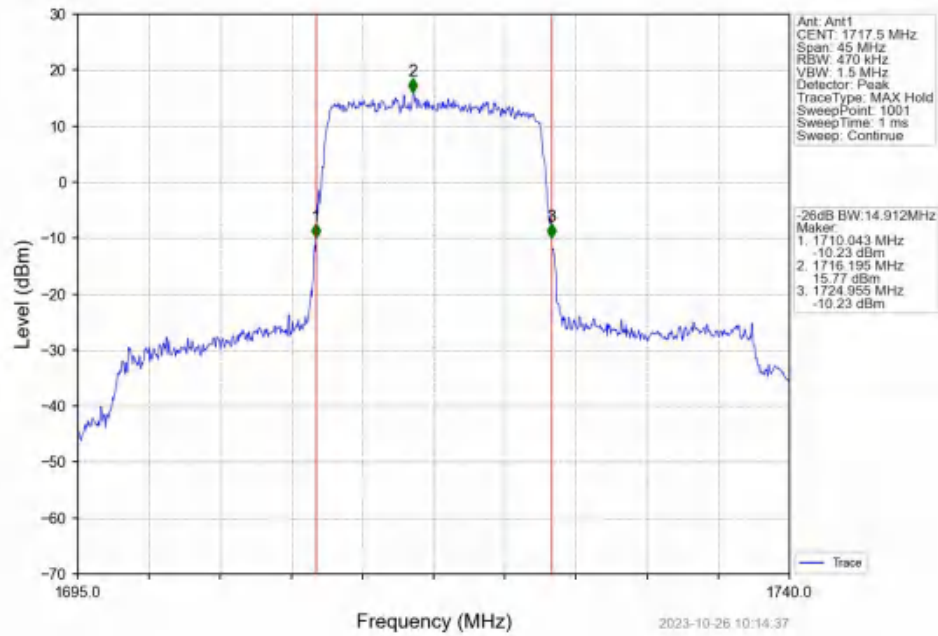
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



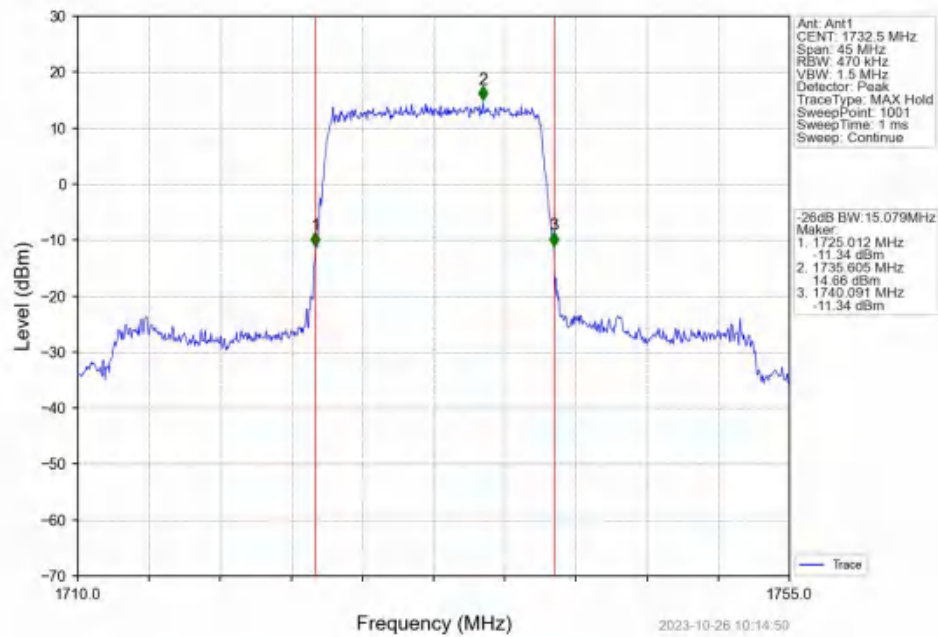
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



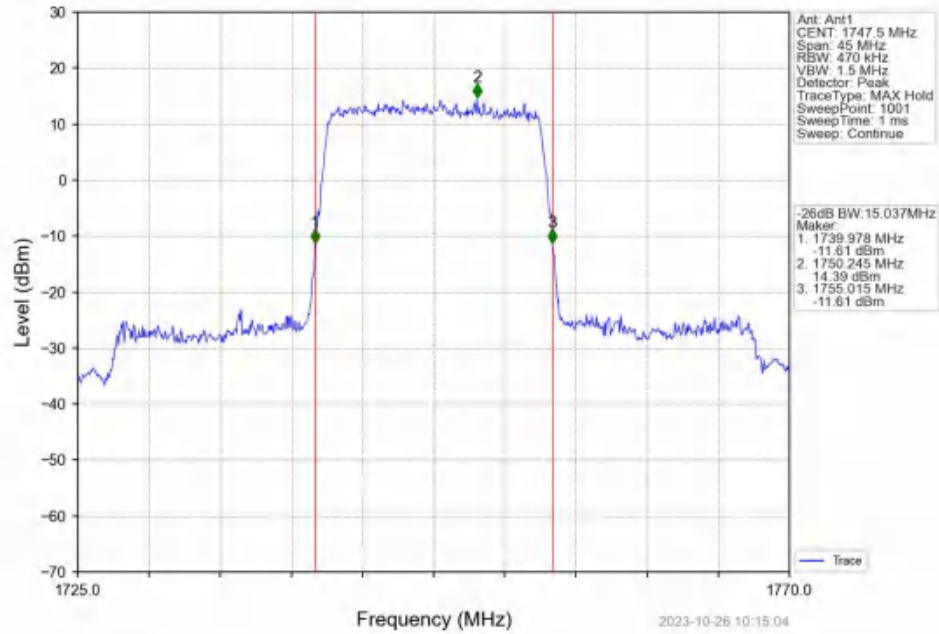
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



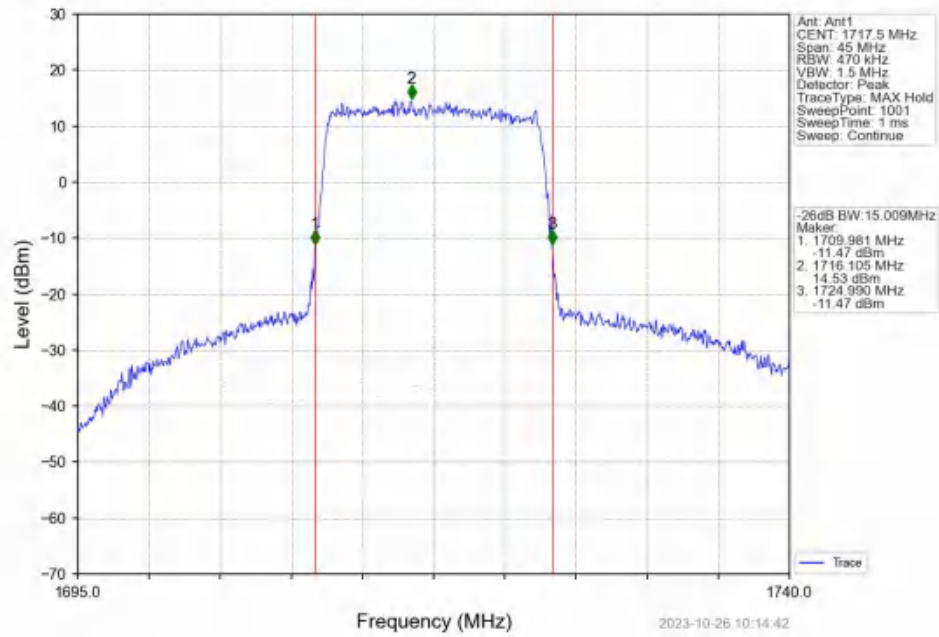
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



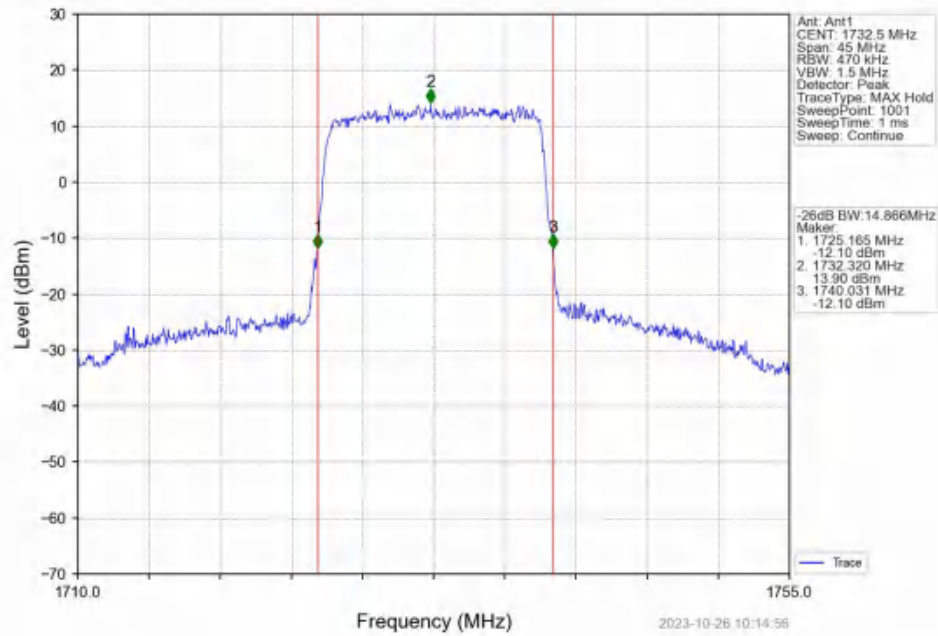
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



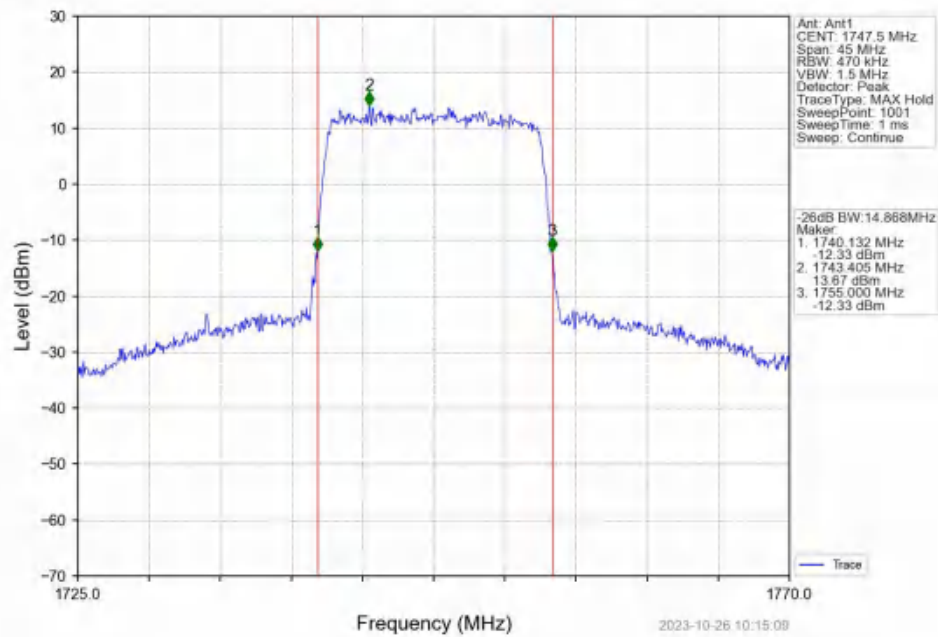
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



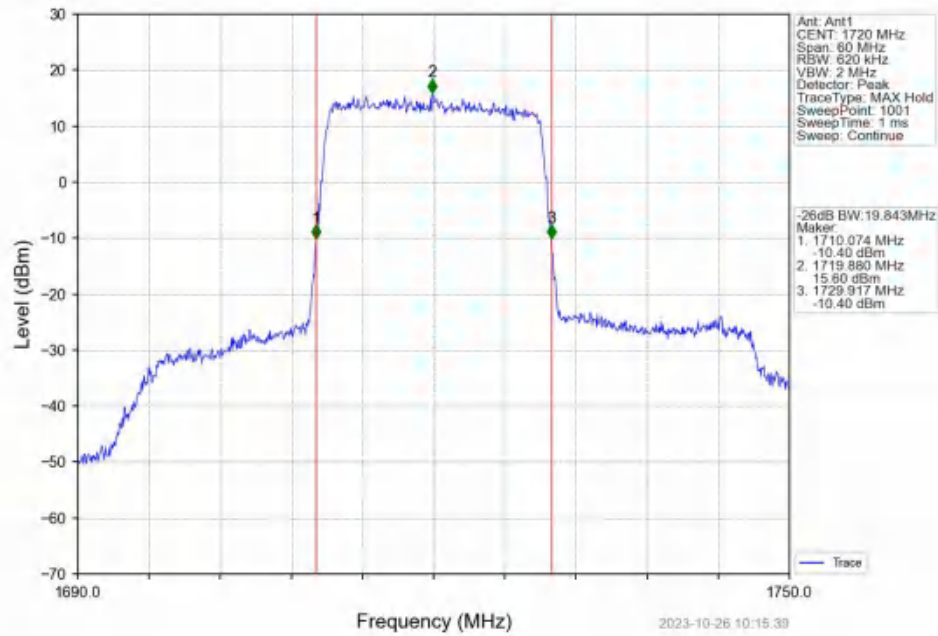
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



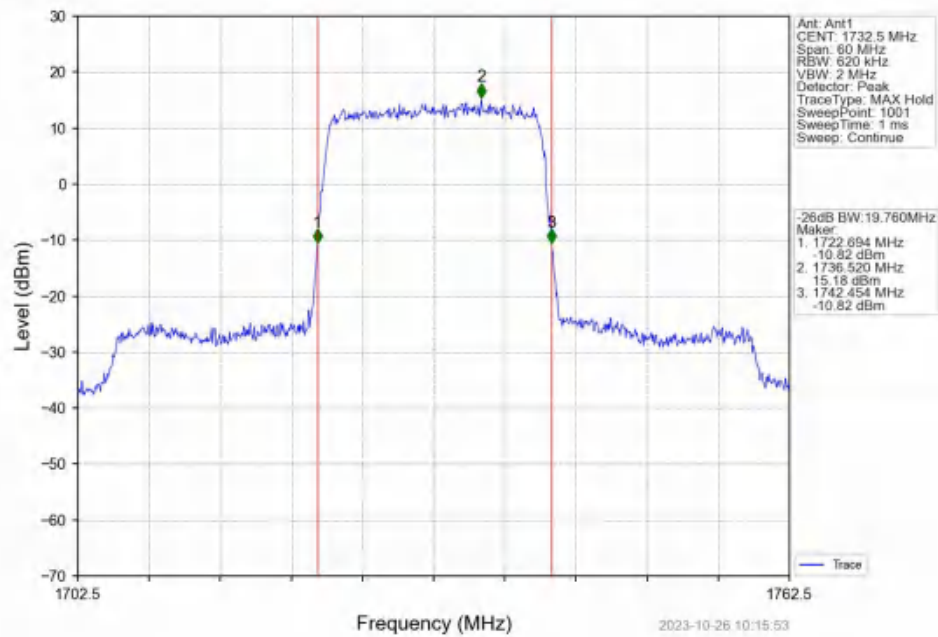
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



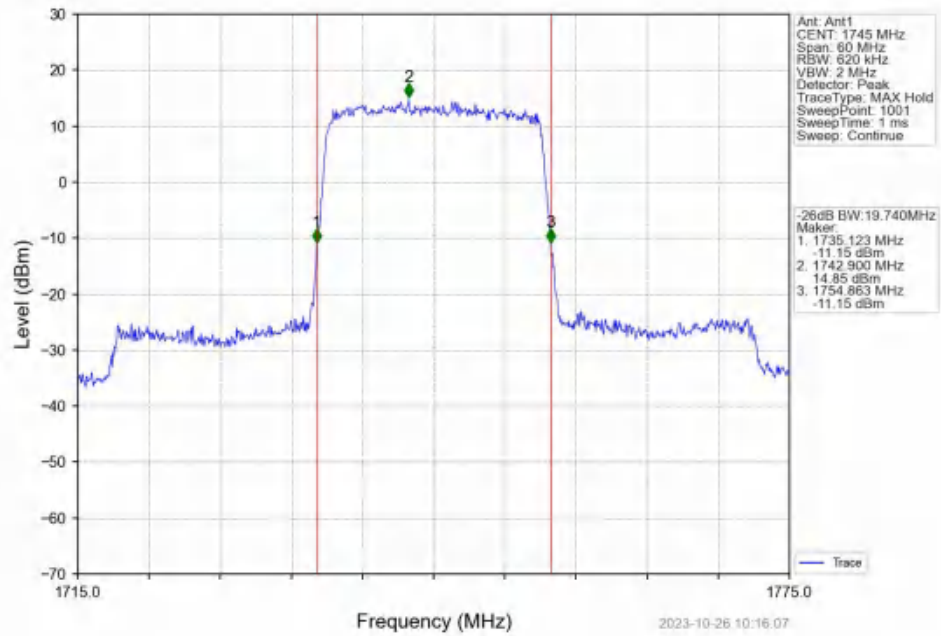
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



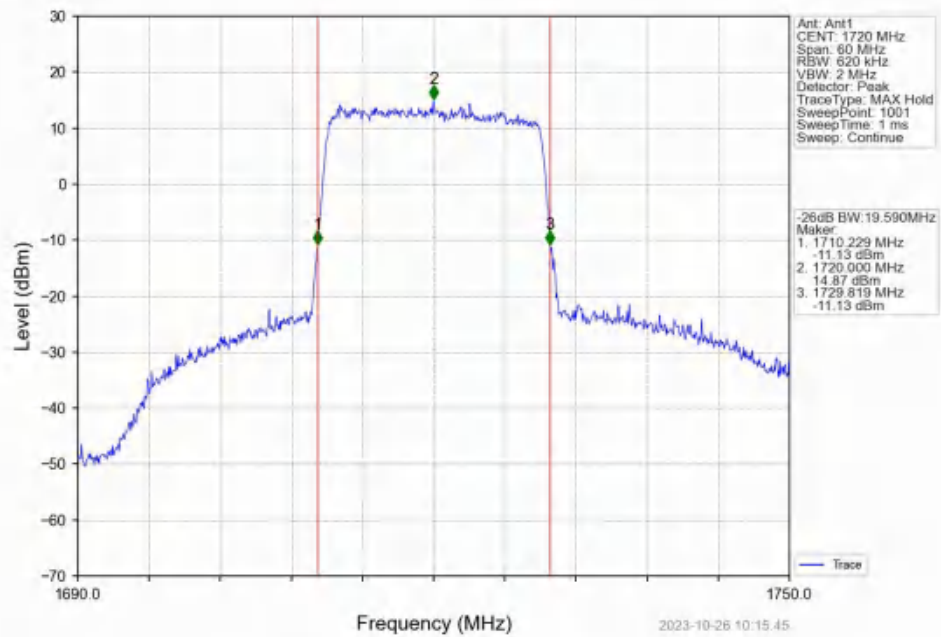
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



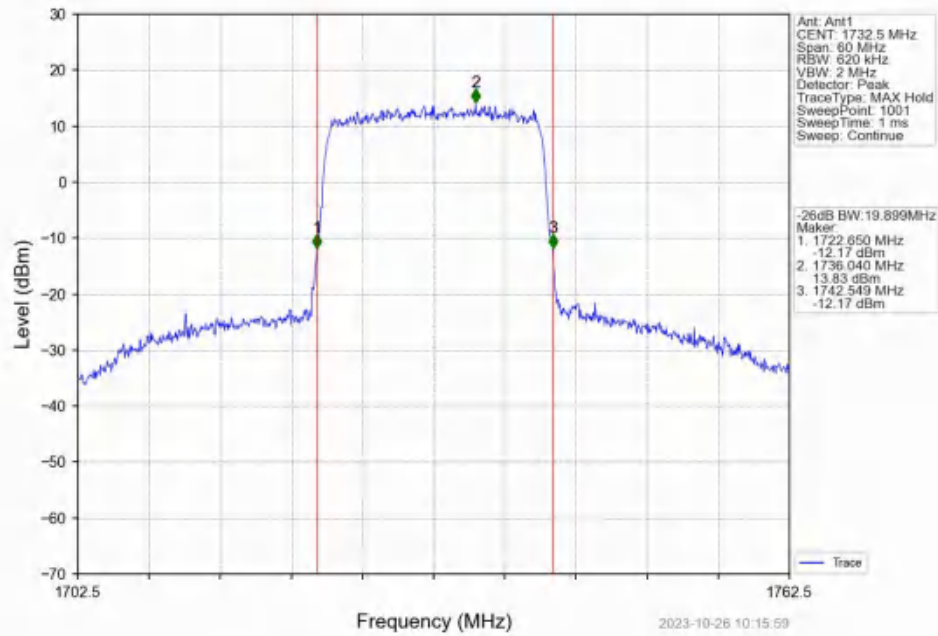
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



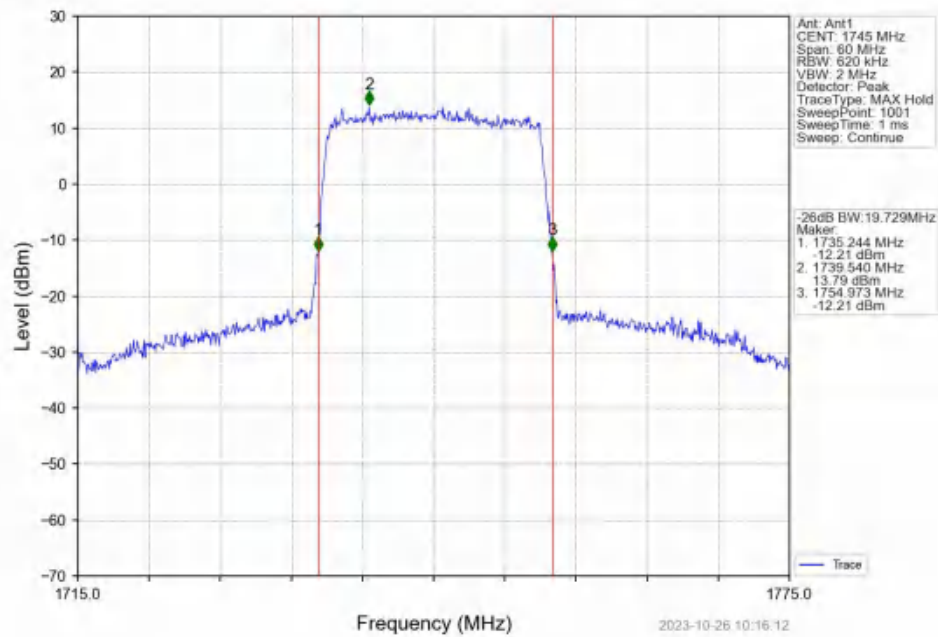
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



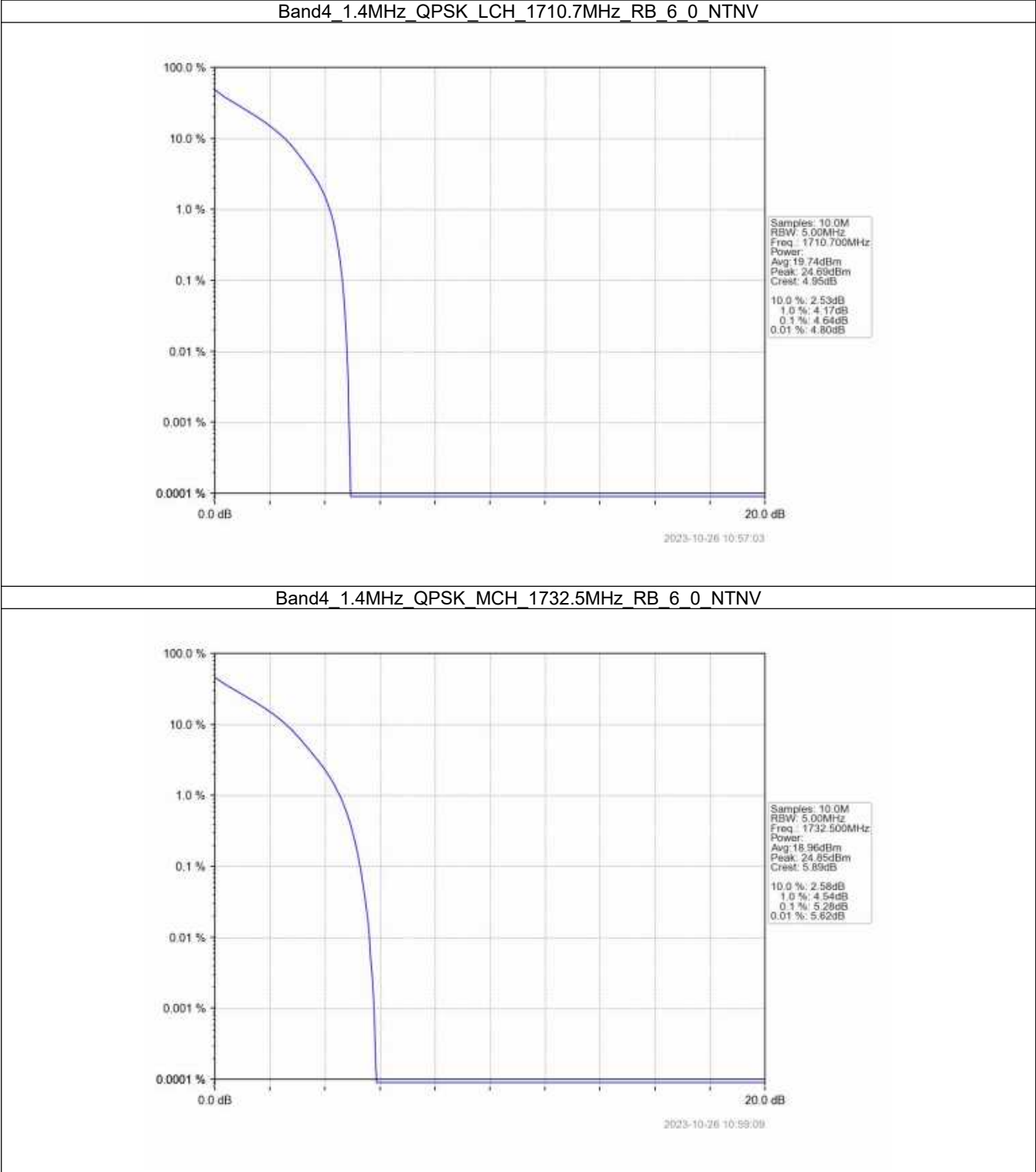
5. Peak-Average Ratio

5.1 B4_1.4MHz

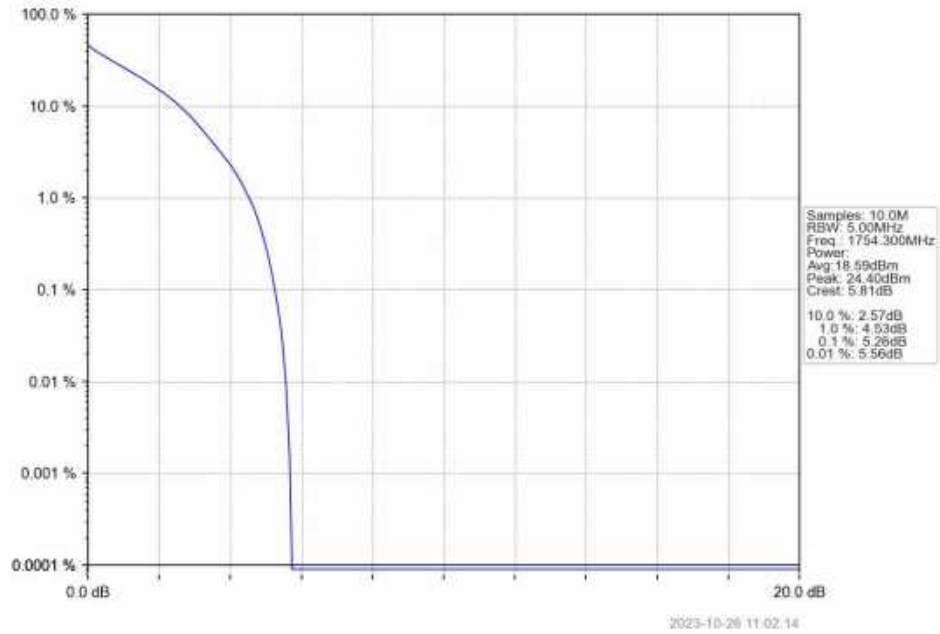
5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	4.64	<=13	Pass
	1732.5	6	0	5.28	<=13	Pass
	1754.3	6	0	5.26	<=13	Pass
16QAM	1710.7	6	0	5.45	<=13	Pass
	1732.5	6	0	6.06	<=13	Pass
	1754.3	6	0	6.04	<=13	Pass

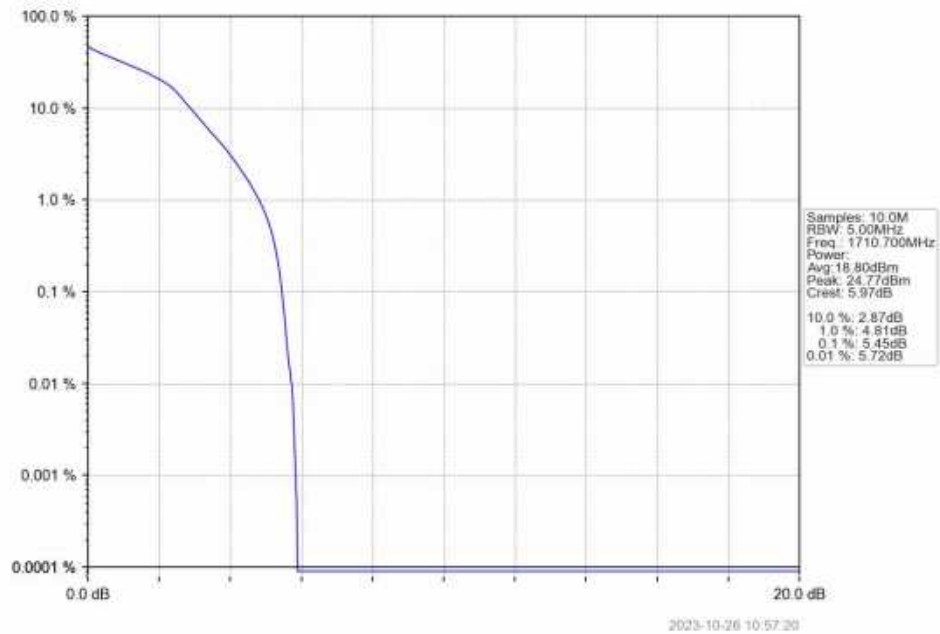
5.1.2 Test Graph



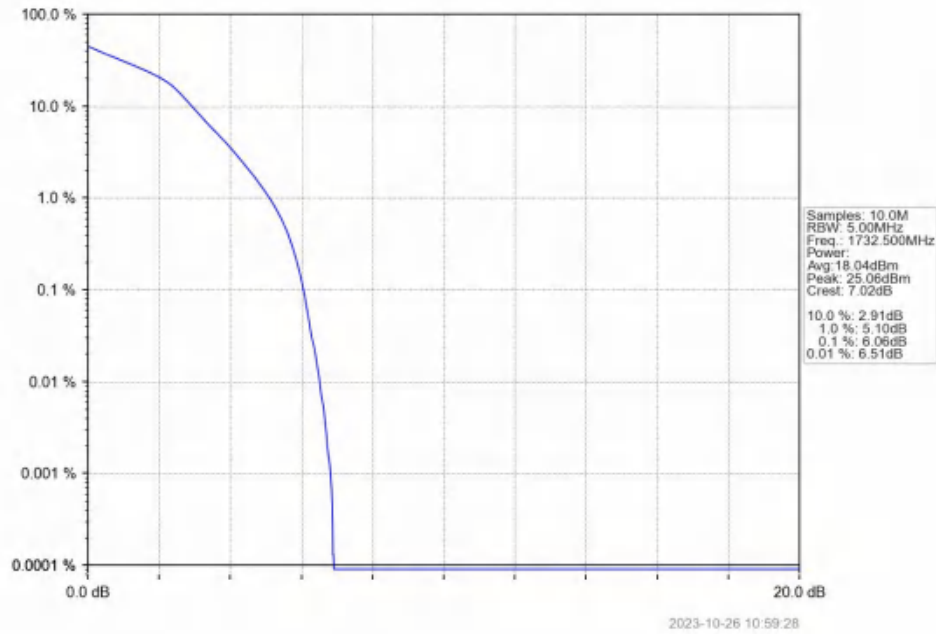
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



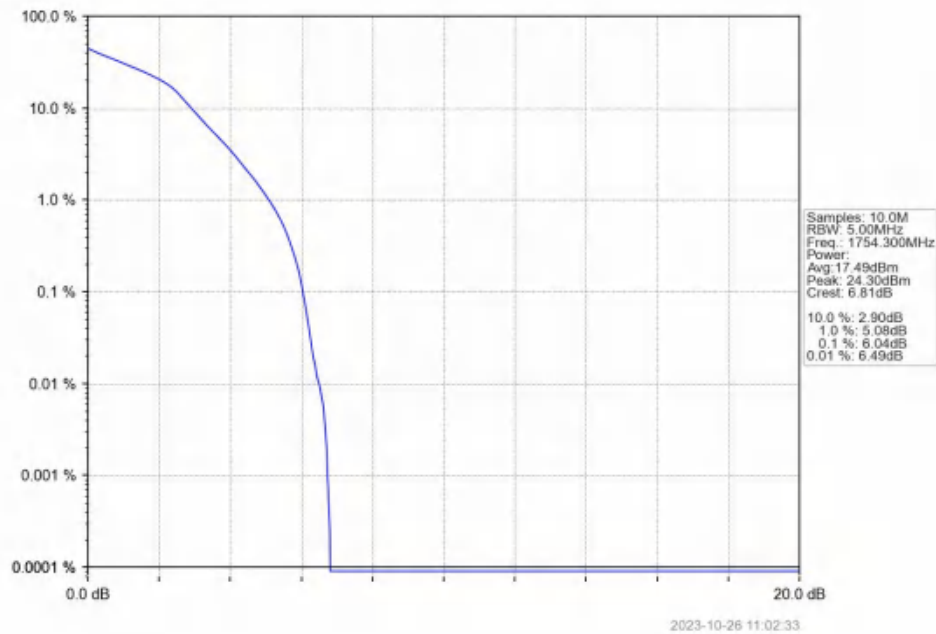
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV

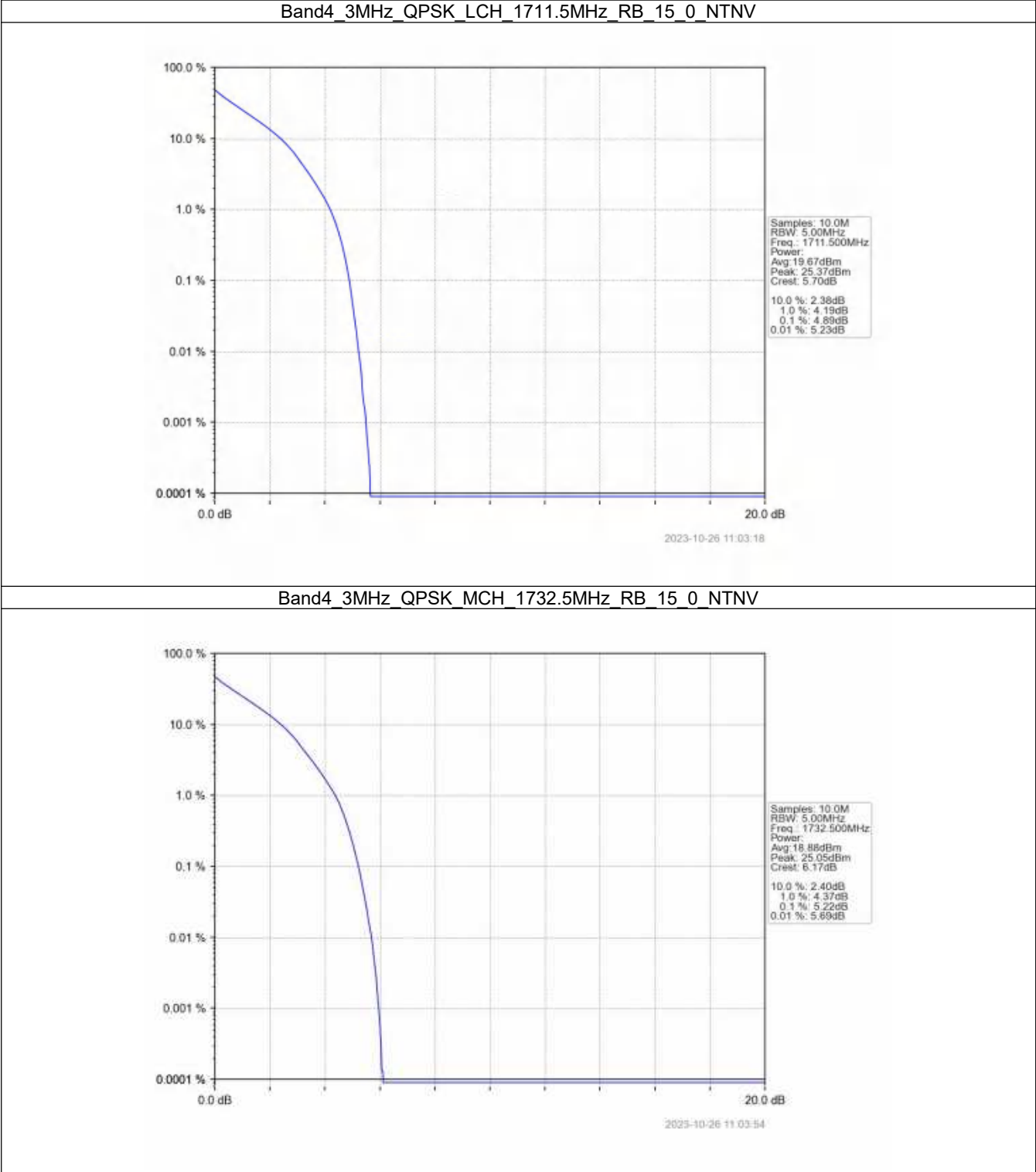


5.2 B4_3MHz

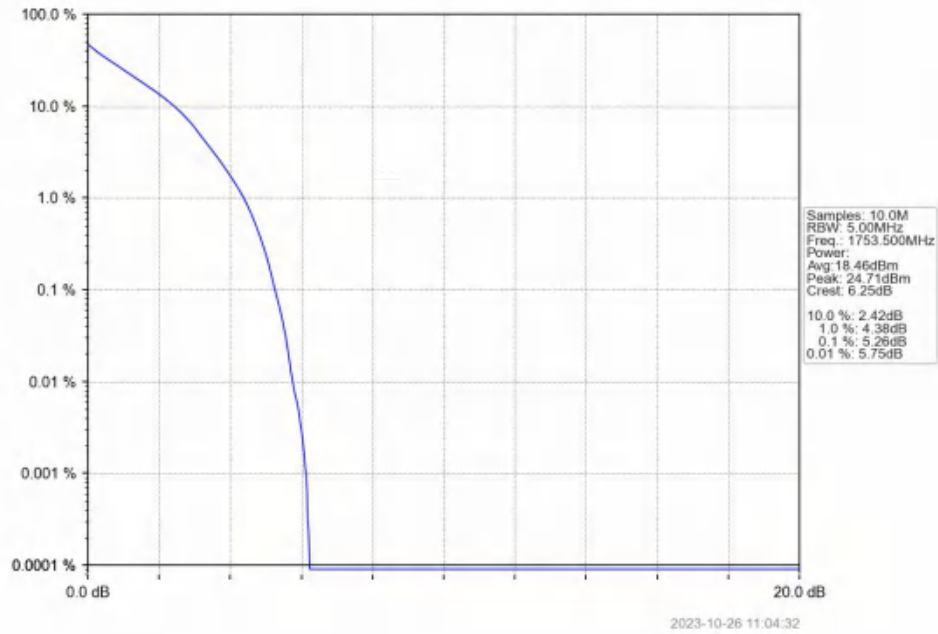
5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	4.89	<=13	Pass
	1732.5	15	0	5.22	<=13	Pass
	1753.5	15	0	5.26	<=13	Pass
16QAM	1711.5	15	0	5.65	<=13	Pass
	1732.5	15	0	6.02	<=13	Pass
	1753.5	15	0	6.00	<=13	Pass

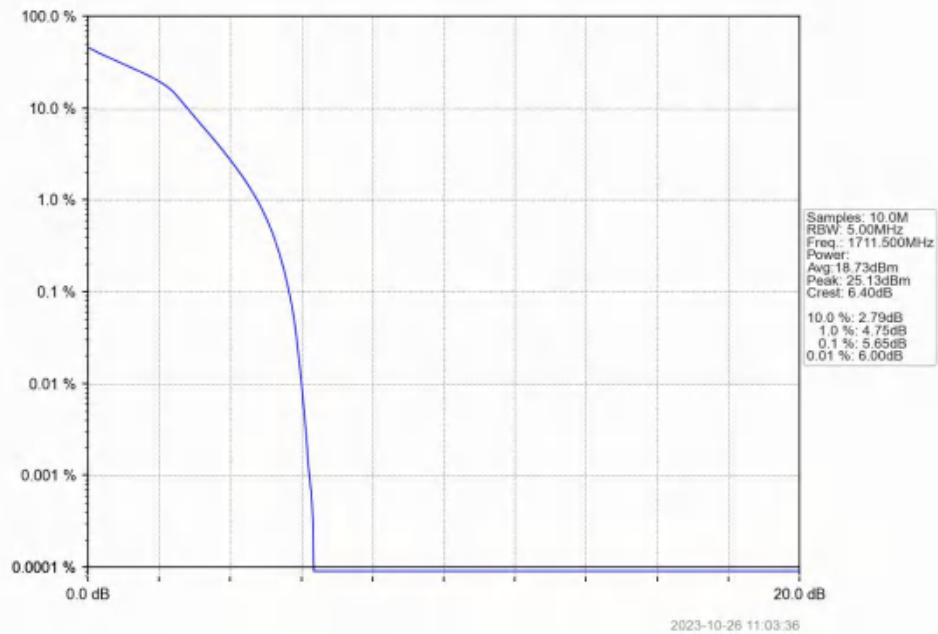
5.2.2 Test Graph



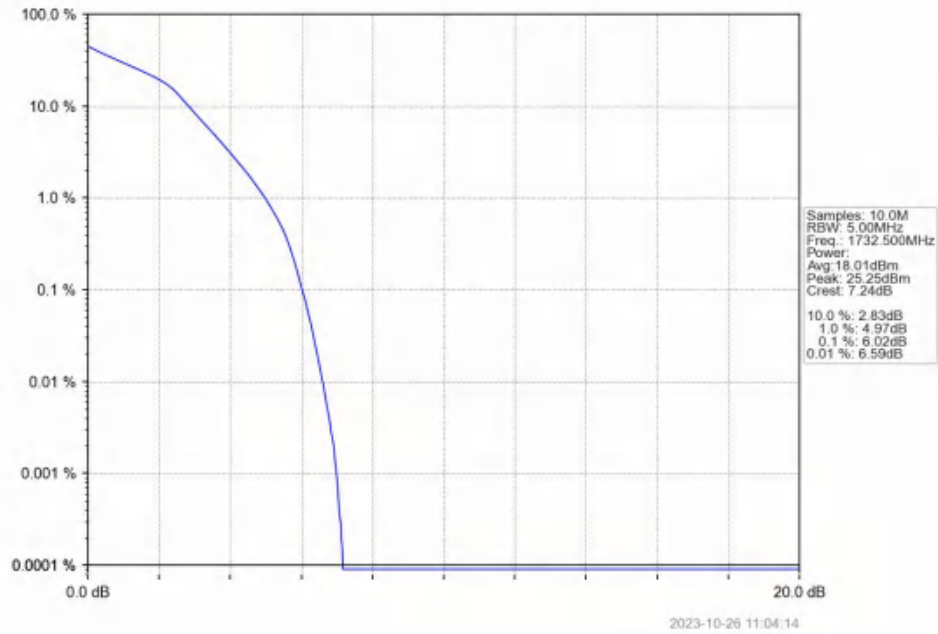
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



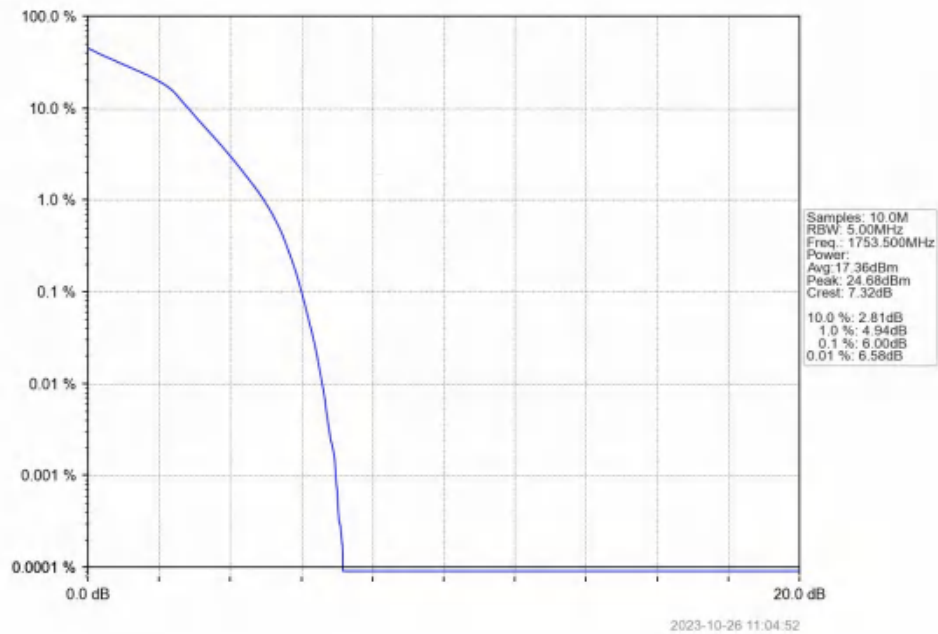
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV

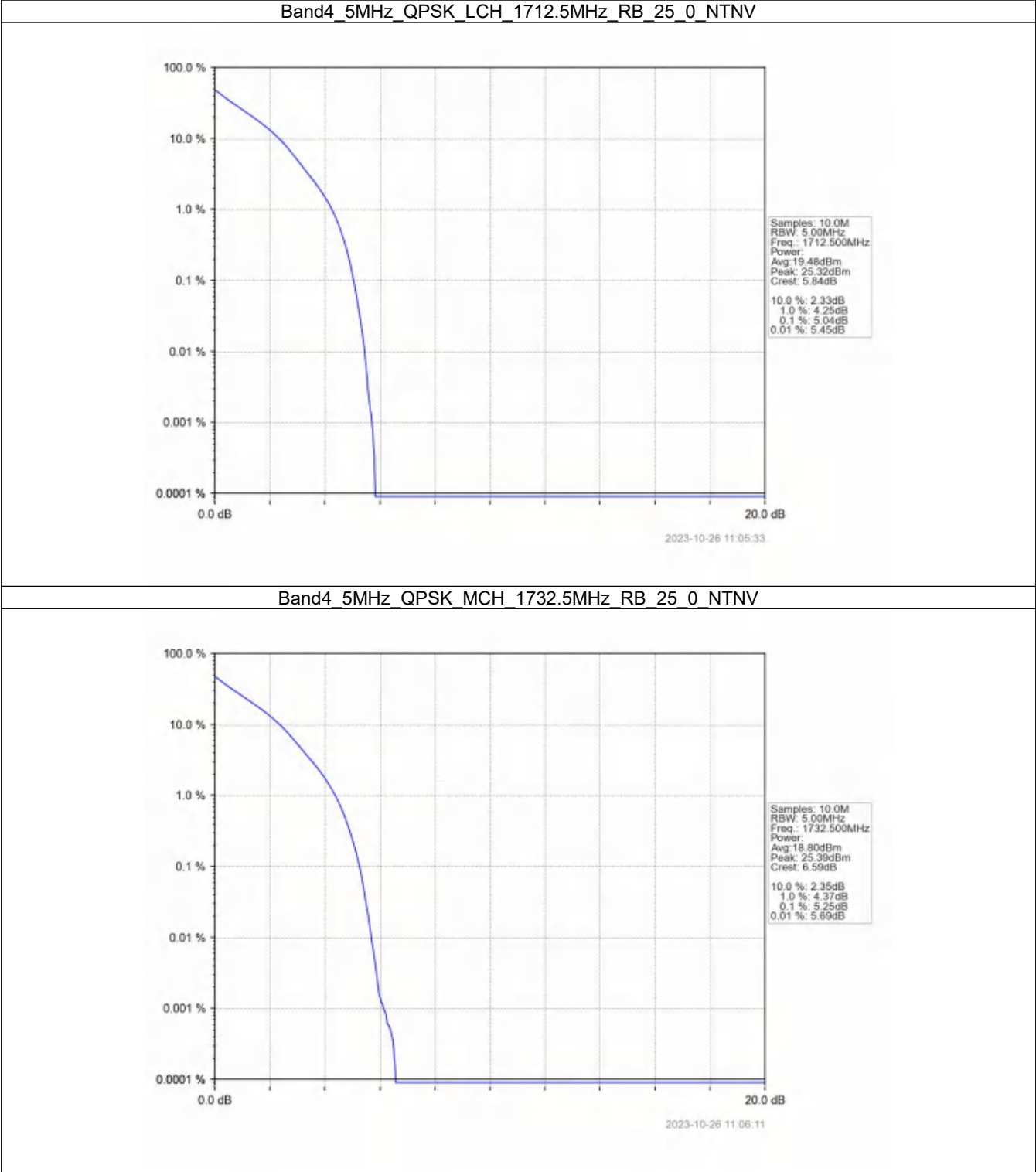


5.3 B4_5MHz

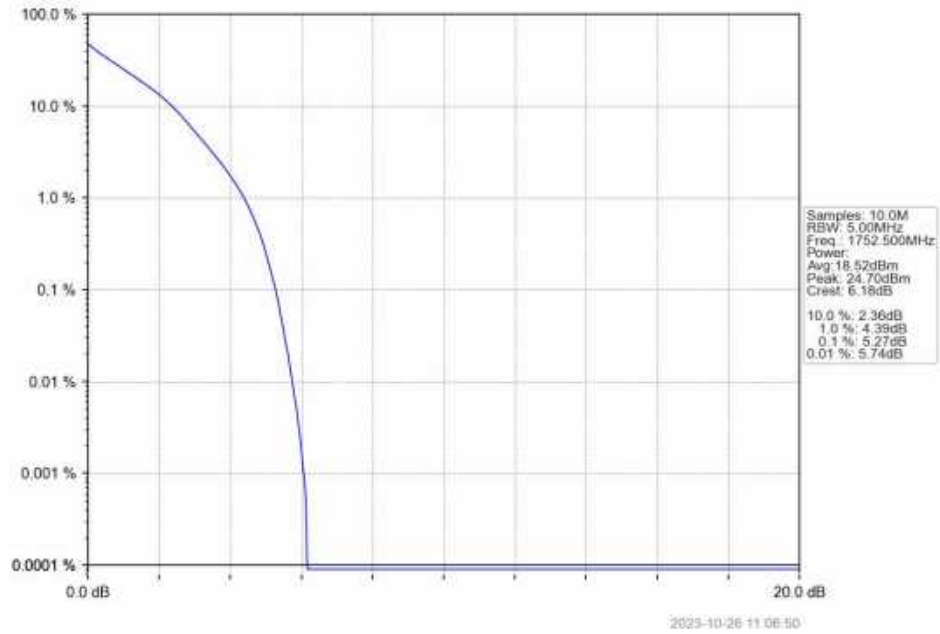
5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.04	<=13	Pass
	1732.5	25	0	5.25	<=13	Pass
	1752.5	25	0	5.27	<=13	Pass
16QAM	1712.5	25	0	5.78	<=13	Pass
	1732.5	25	0	5.98	<=13	Pass
	1752.5	25	0	5.98	<=13	Pass

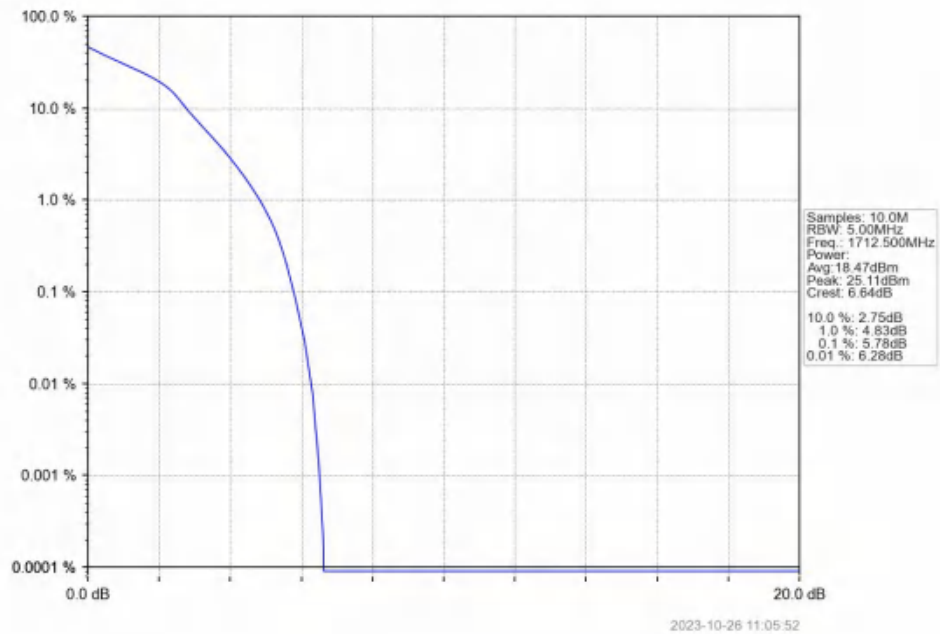
5.3.2 Test Graph



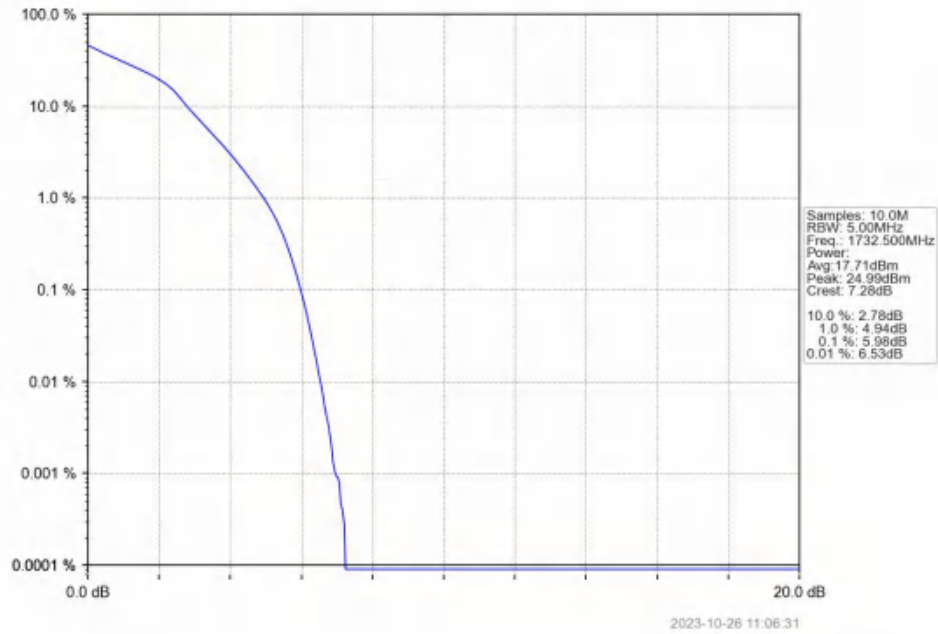
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



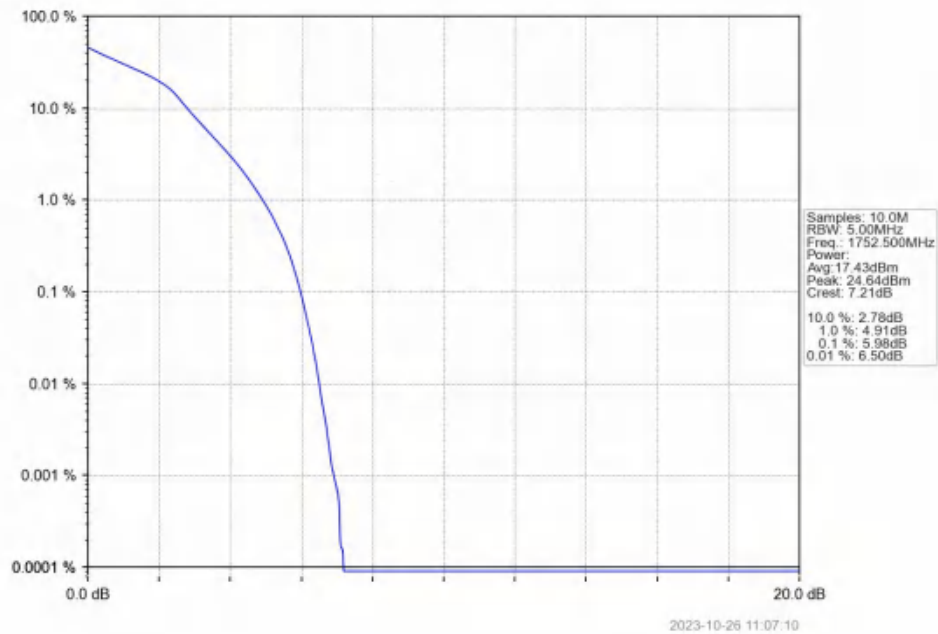
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

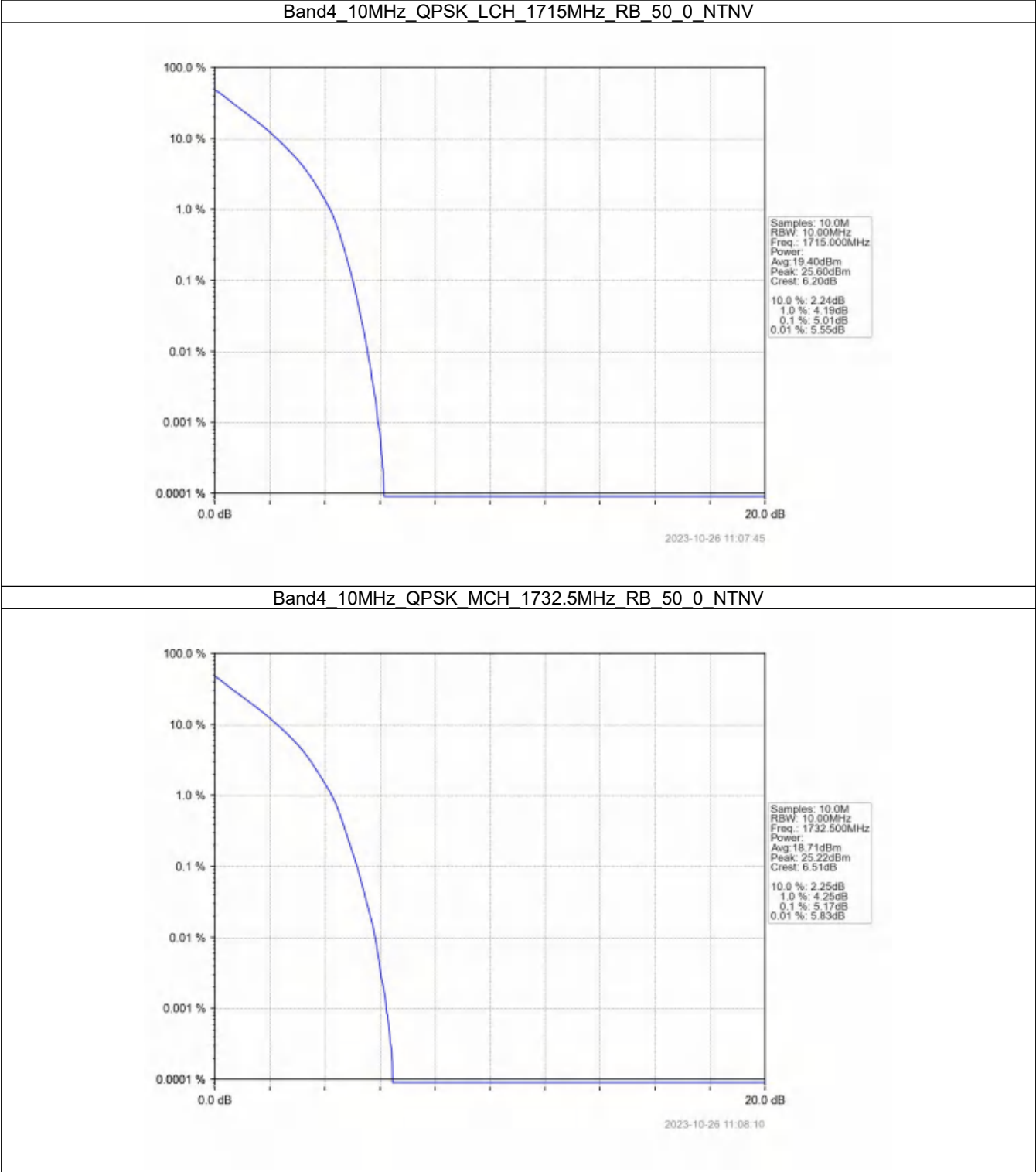


5.4 B4_10MHz

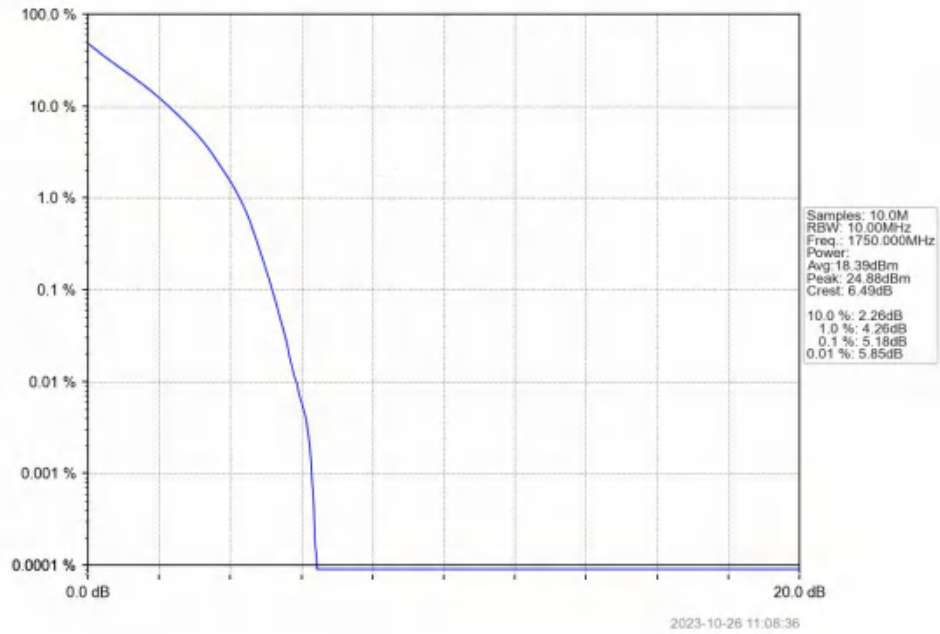
5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.01	<=13	Pass
	1732.5	50	0	5.17	<=13	Pass
	1750	50	0	5.18	<=13	Pass
16QAM	1715	50	0	5.78	<=13	Pass
	1732.5	50	0	5.93	<=13	Pass
	1750	50	0	5.91	<=13	Pass

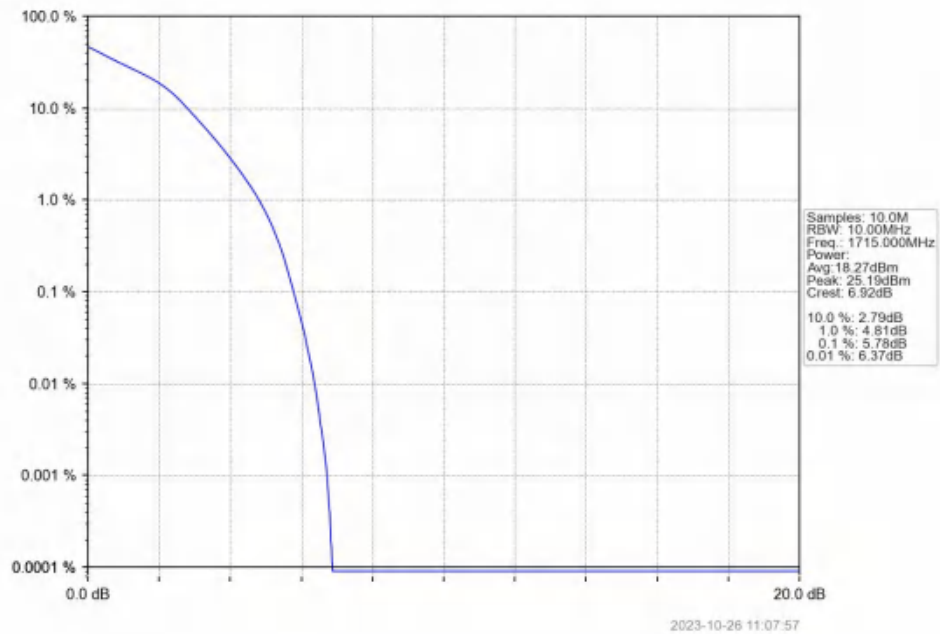
5.4.2 Test Graph



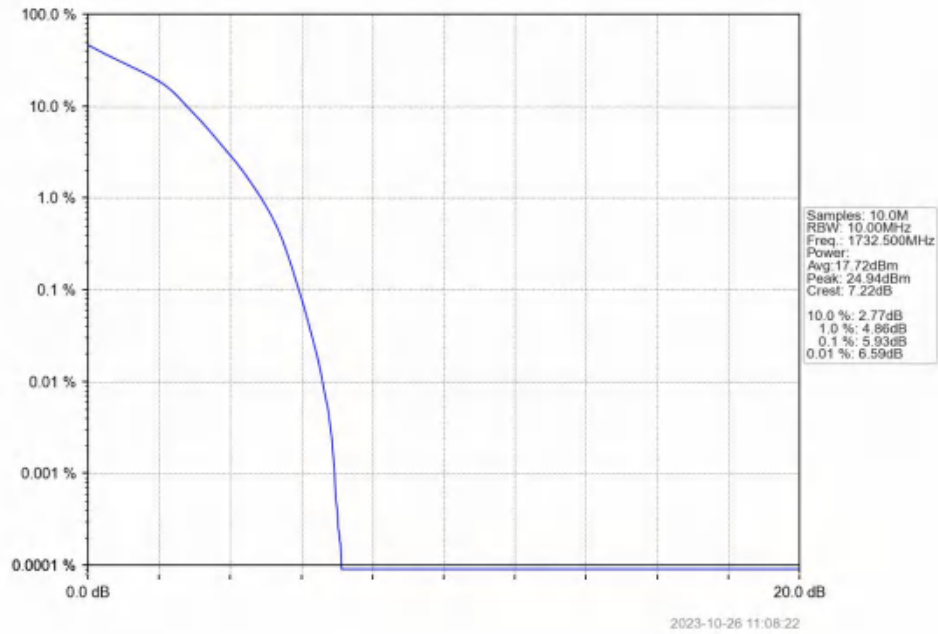
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



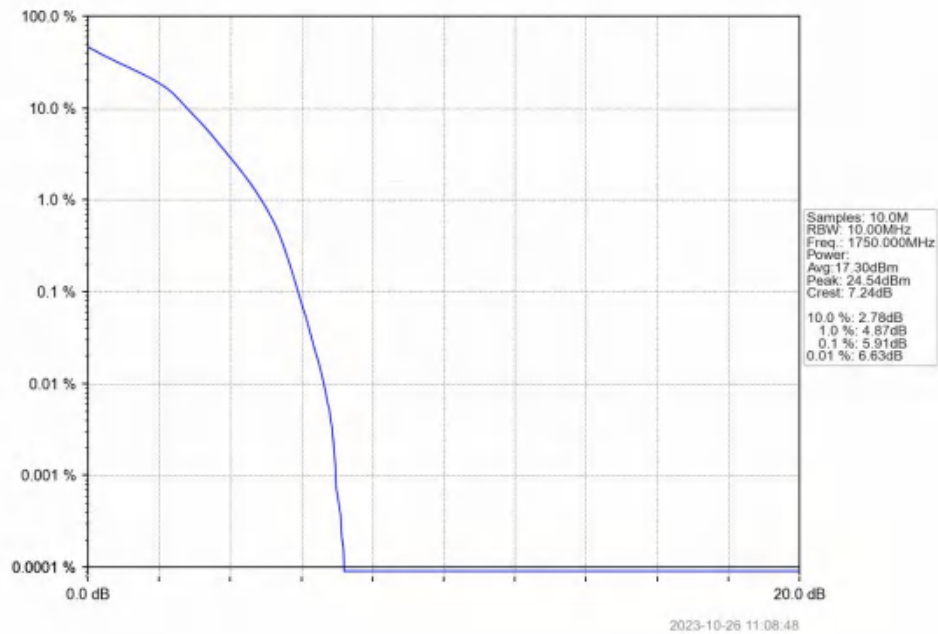
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

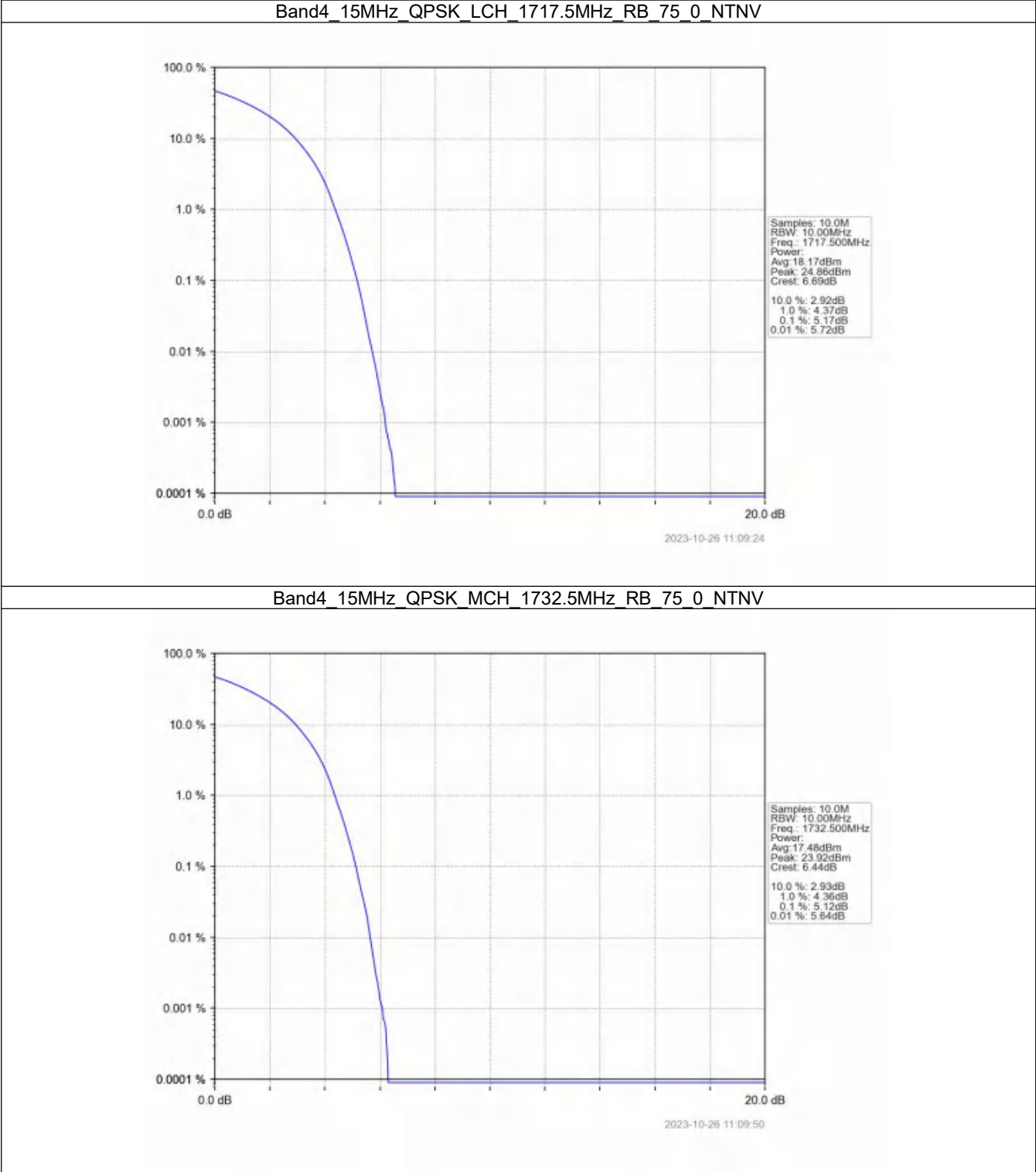


5.5 B4_15MHz

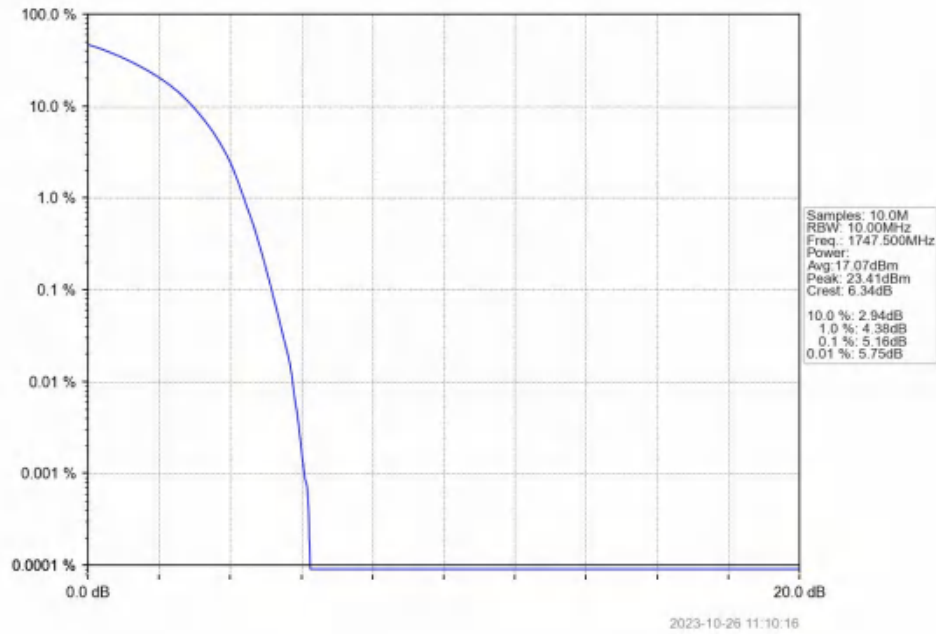
5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.17	<=13	Pass
	1732.5	75	0	5.12	<=13	Pass
	1747.5	75	0	5.16	<=13	Pass
16QAM	1717.5	75	0	6.23	<=13	Pass
	1732.5	75	0	6.18	<=13	Pass
	1747.5	75	0	6.18	<=13	Pass

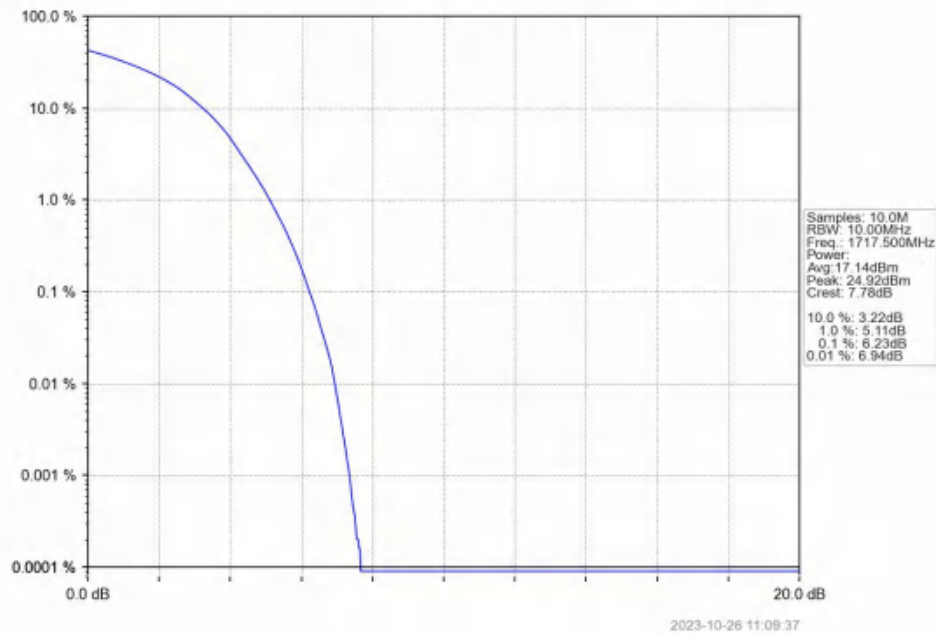
5.5.2 Test Graph



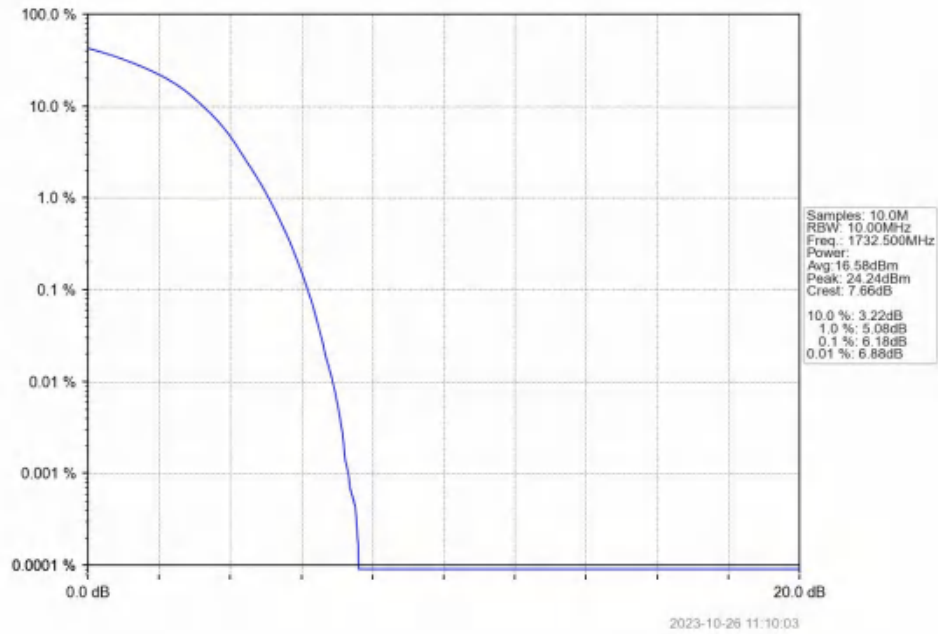
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



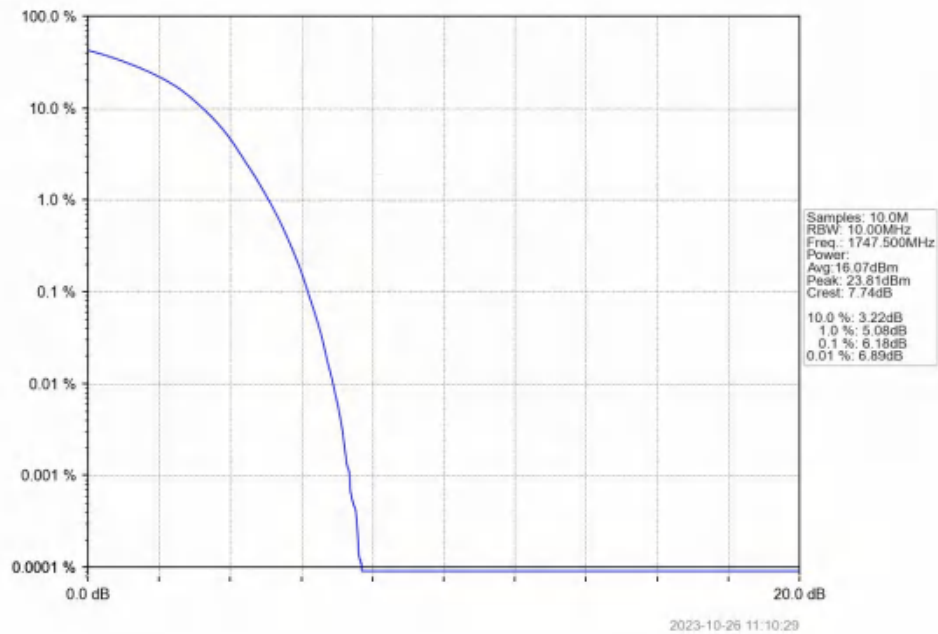
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

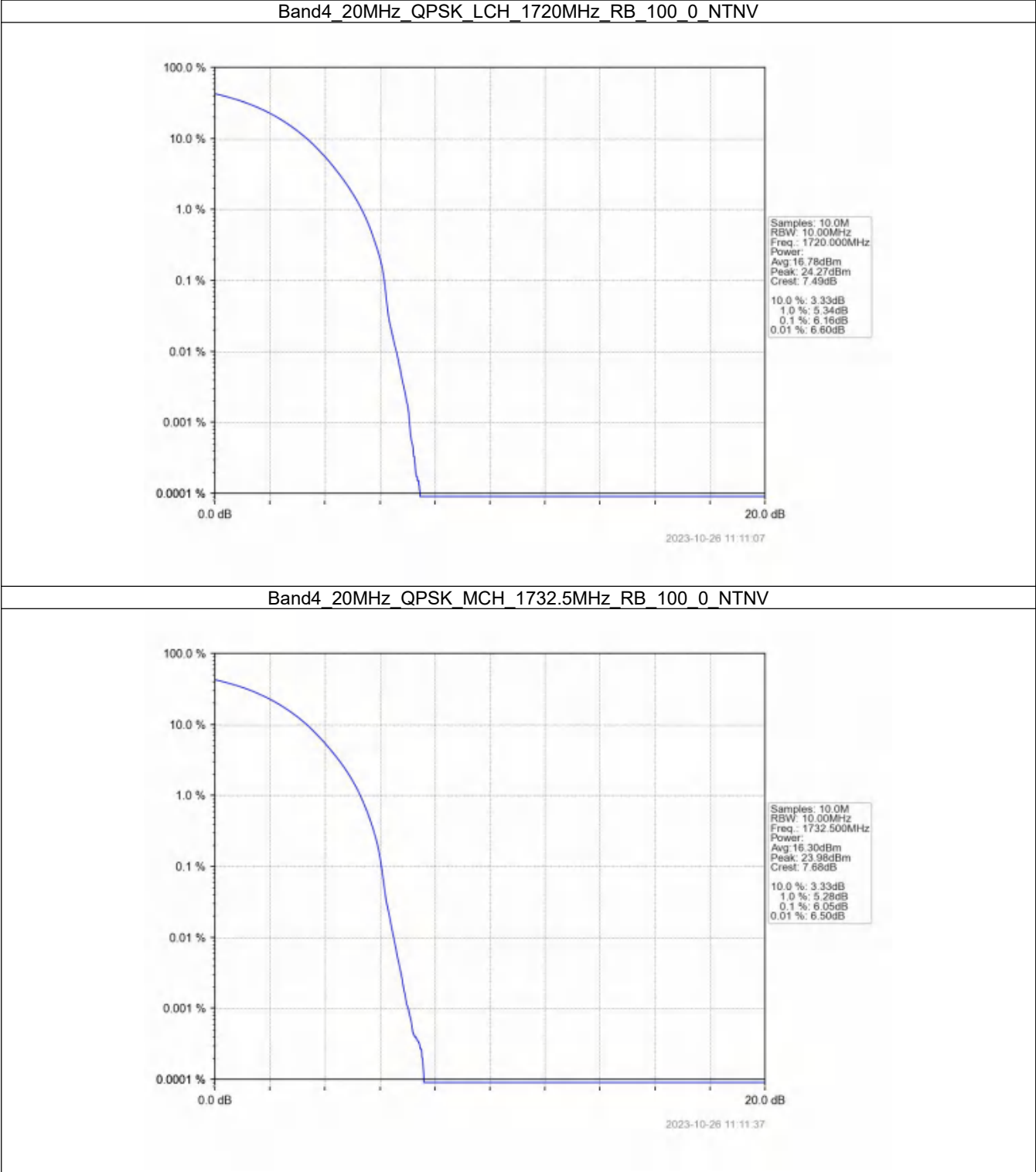


5.6 B4_20MHz

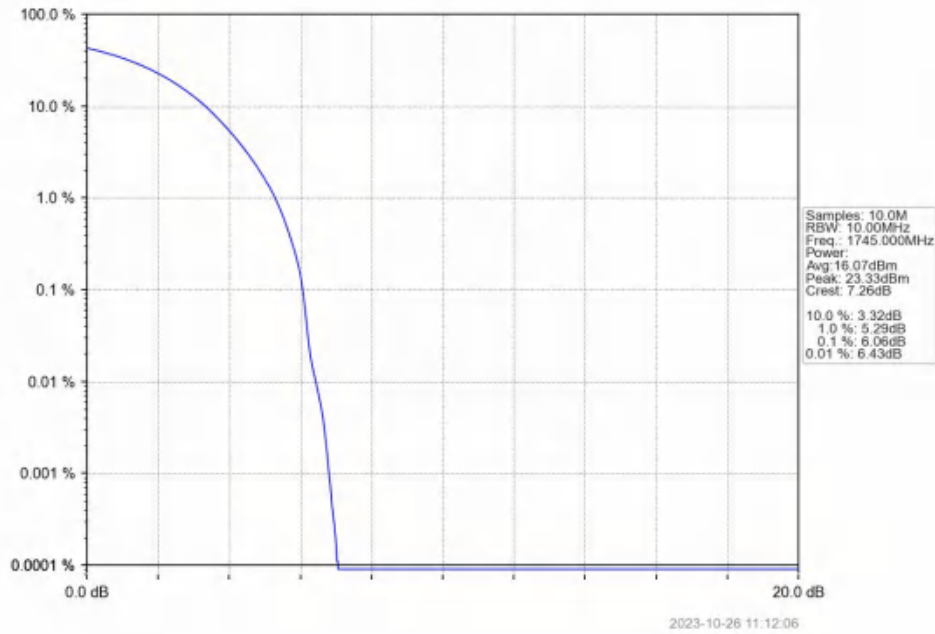
5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	6.16	<=13	Pass
	1732.5	100	0	6.05	<=13	Pass
	1745	100	0	6.06	<=13	Pass
16QAM	1720	100	0	6.71	<=13	Pass
	1732.5	100	0	6.67	<=13	Pass
	1745	100	0	6.71	<=13	Pass

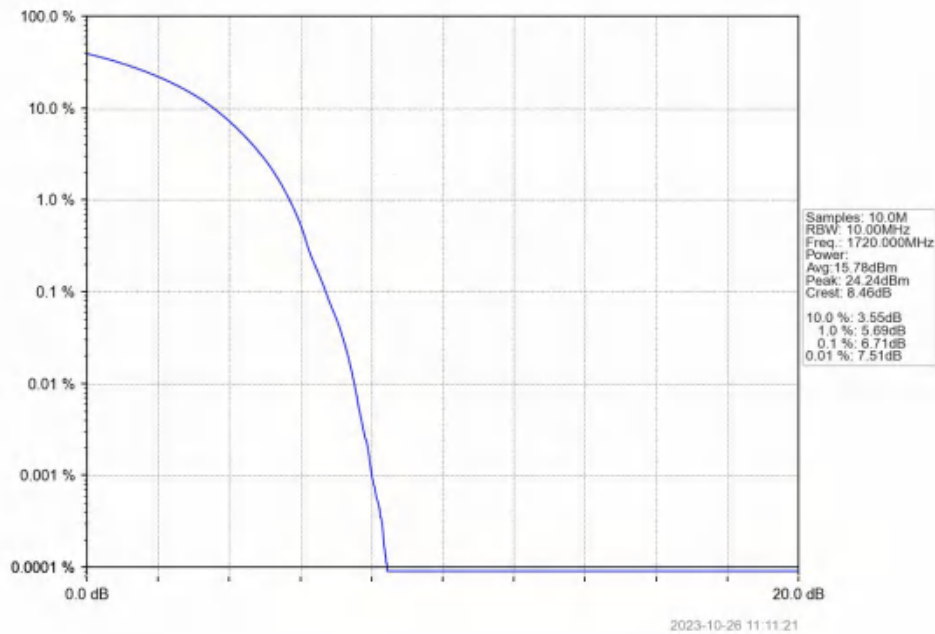
5.6.2 Test Graph



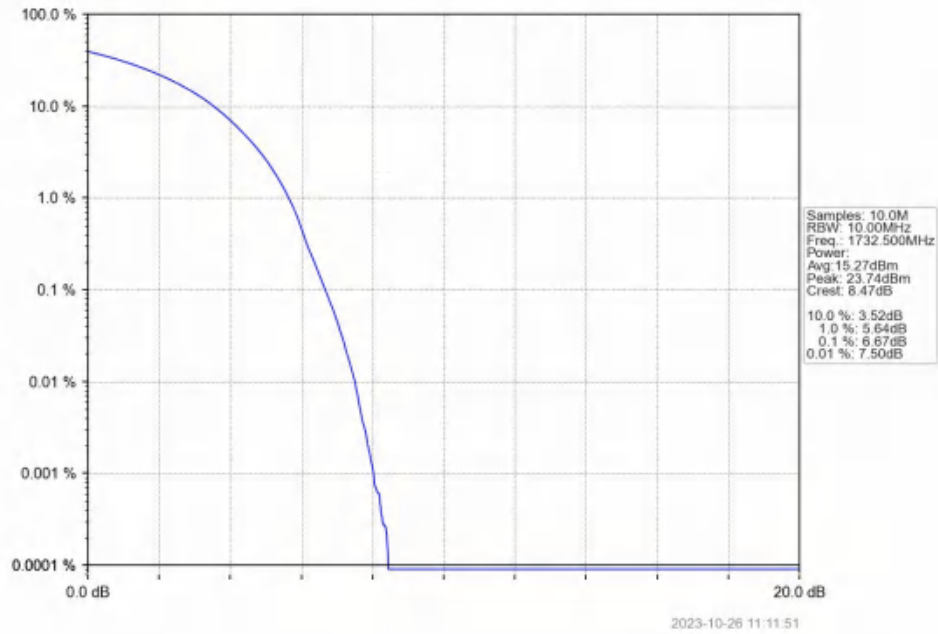
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



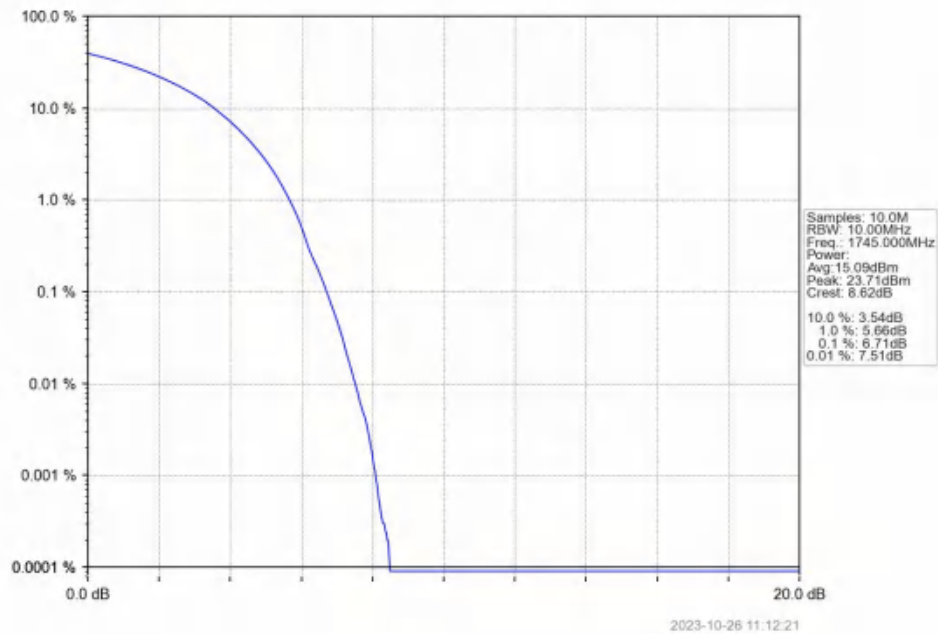
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



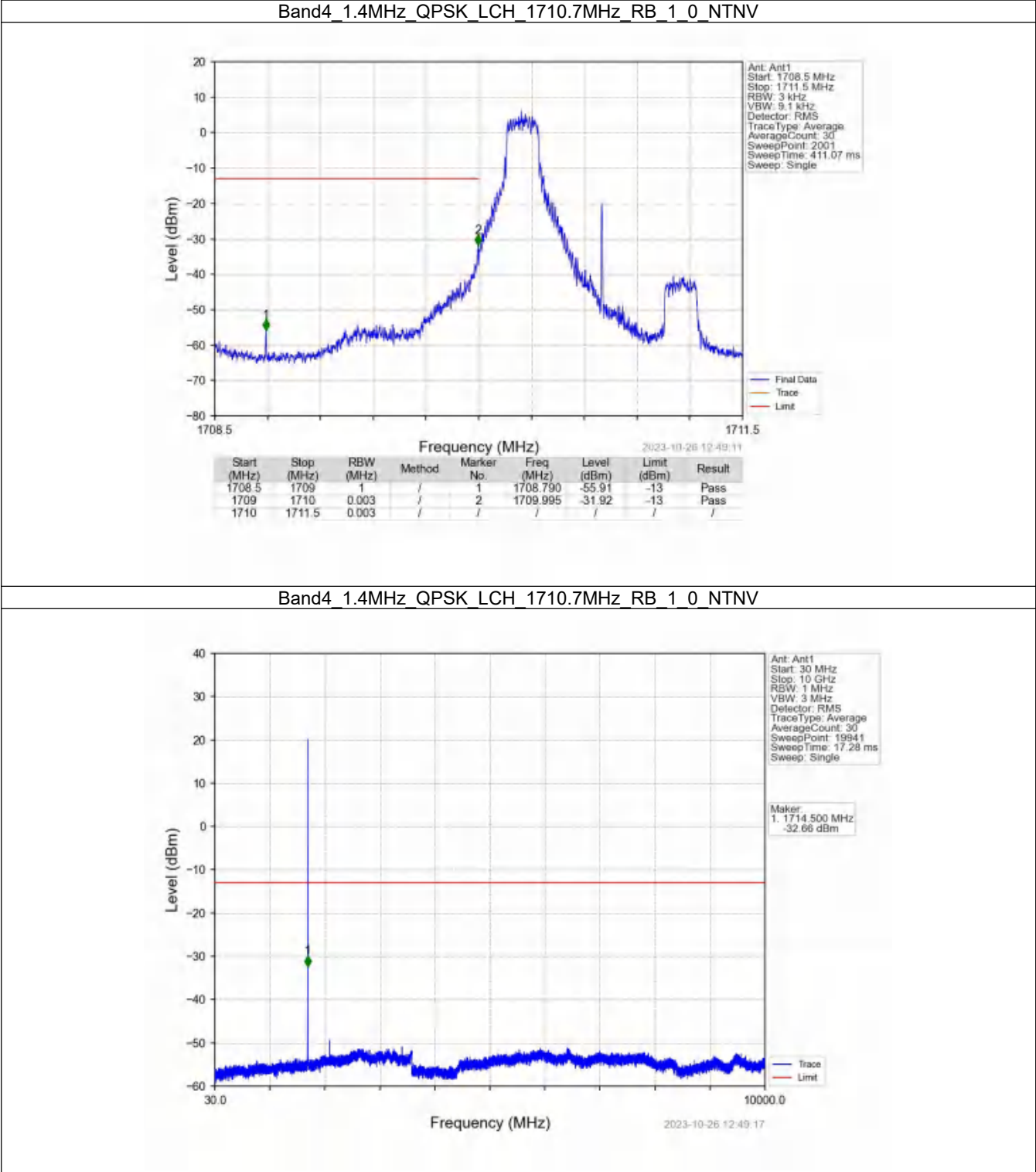
6. Spurious Emission

6.1 B4_1.4MHz

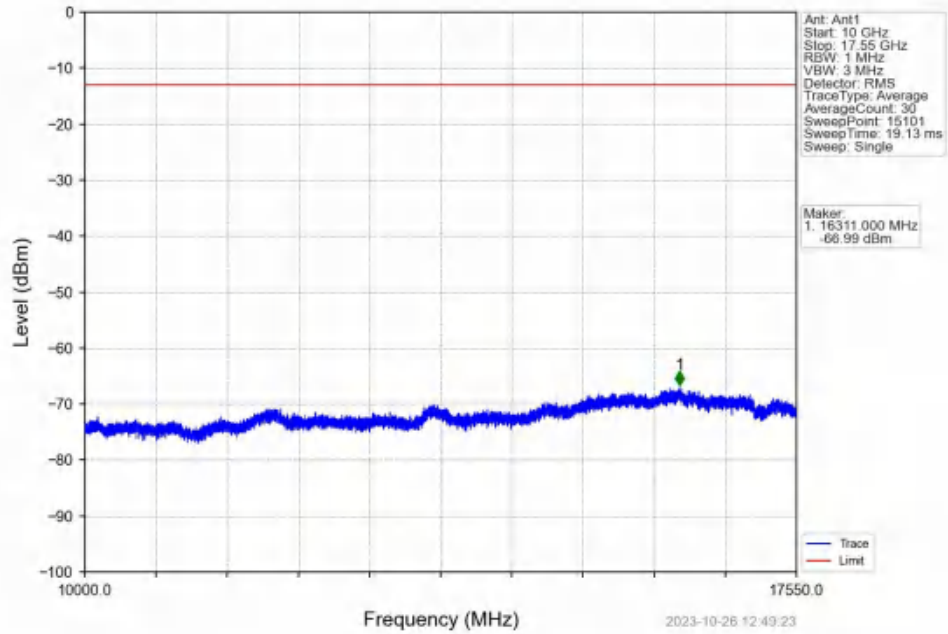
6.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

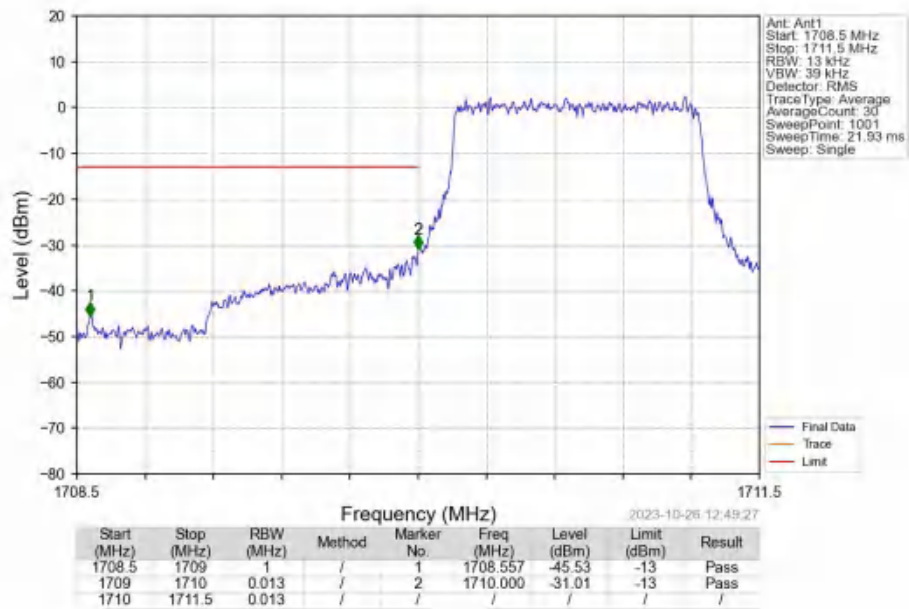
6.1.2 Test Graph



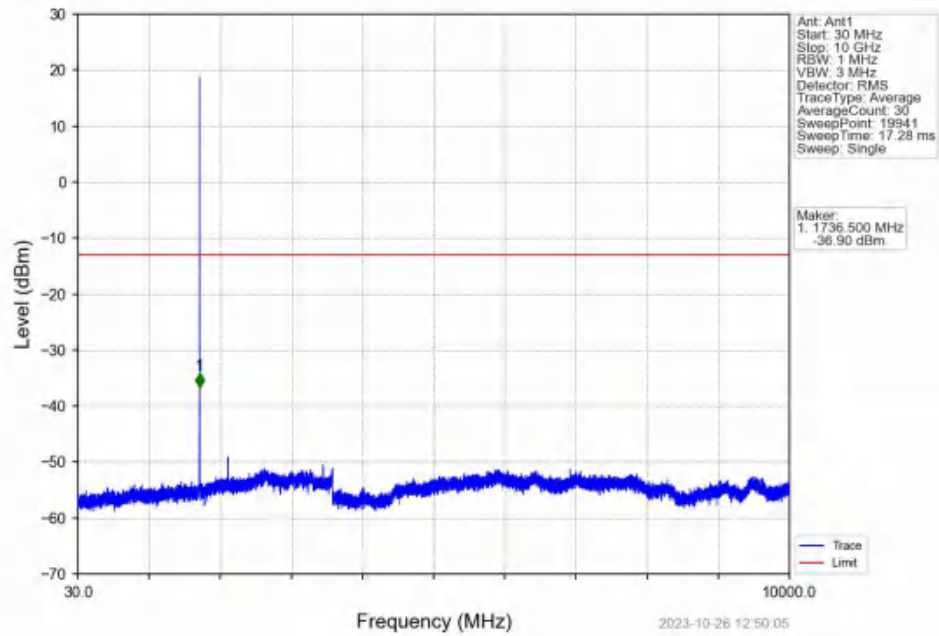
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



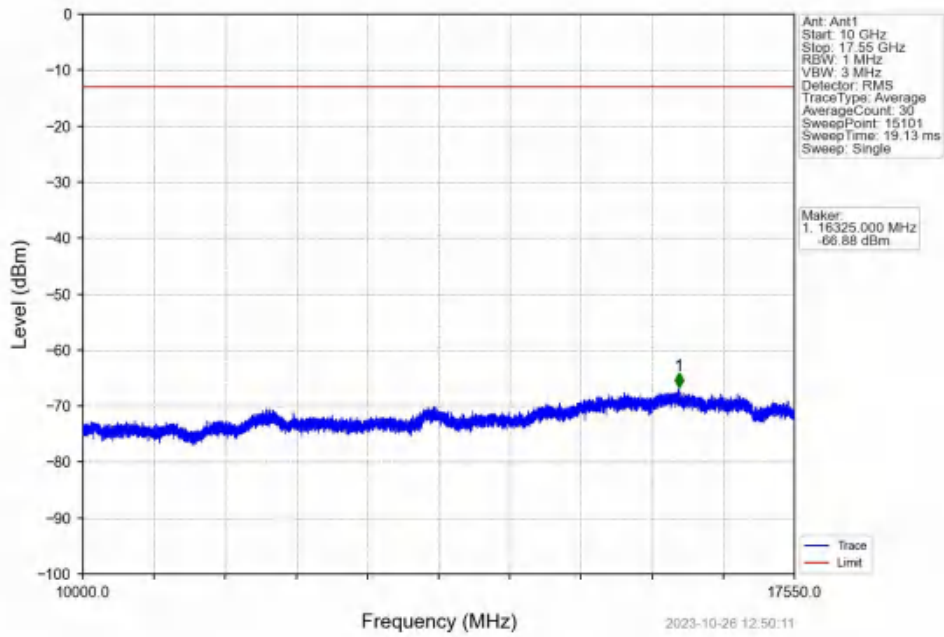
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



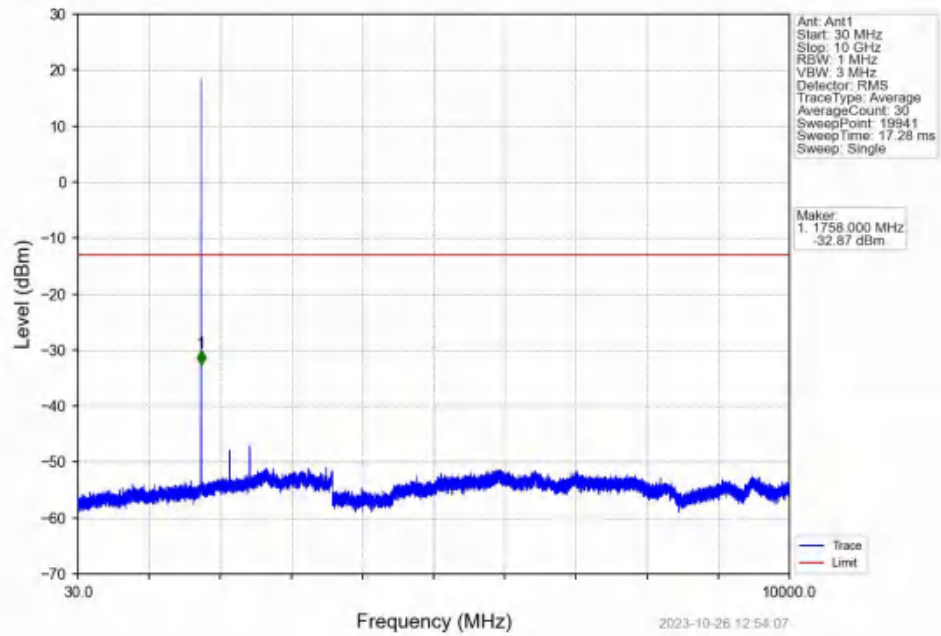
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



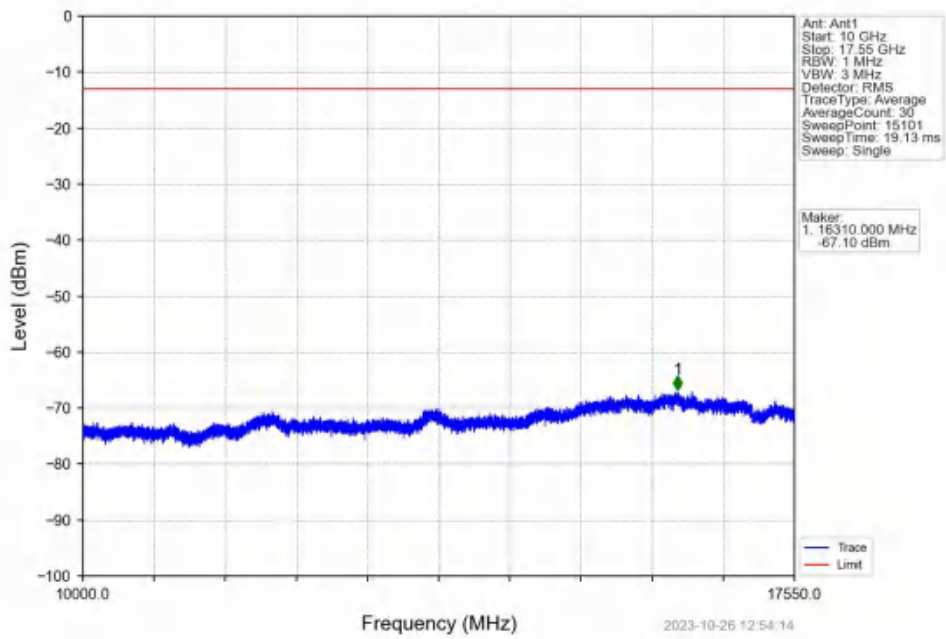
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



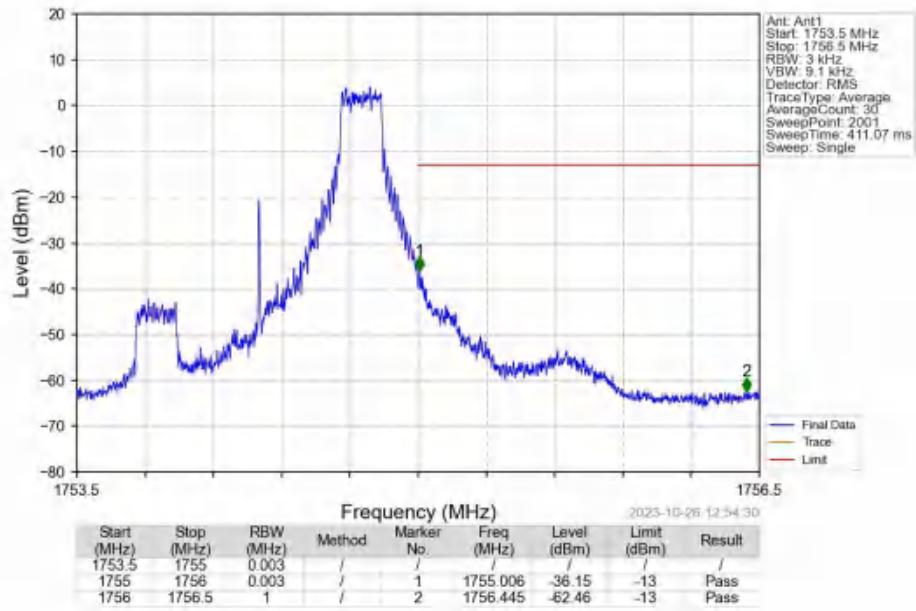
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



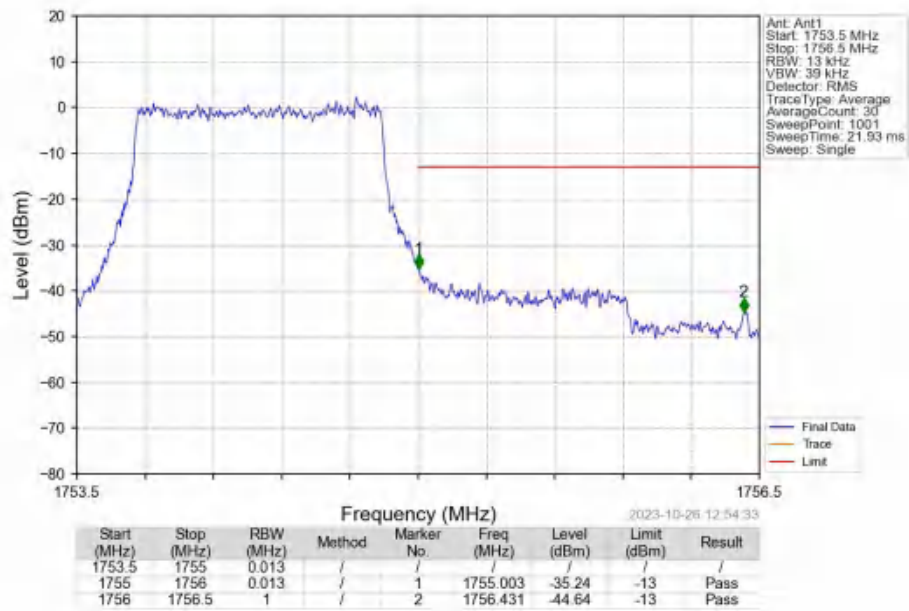
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



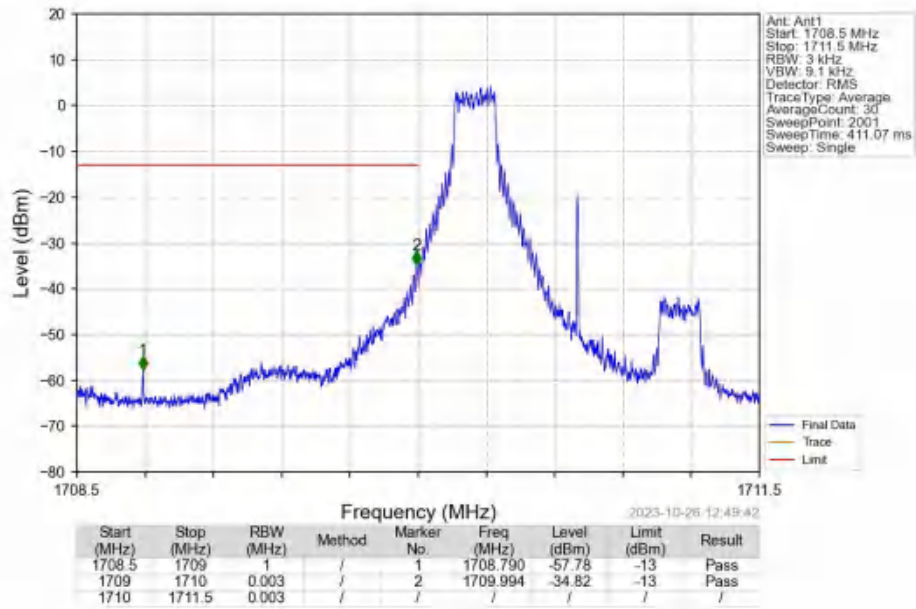
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



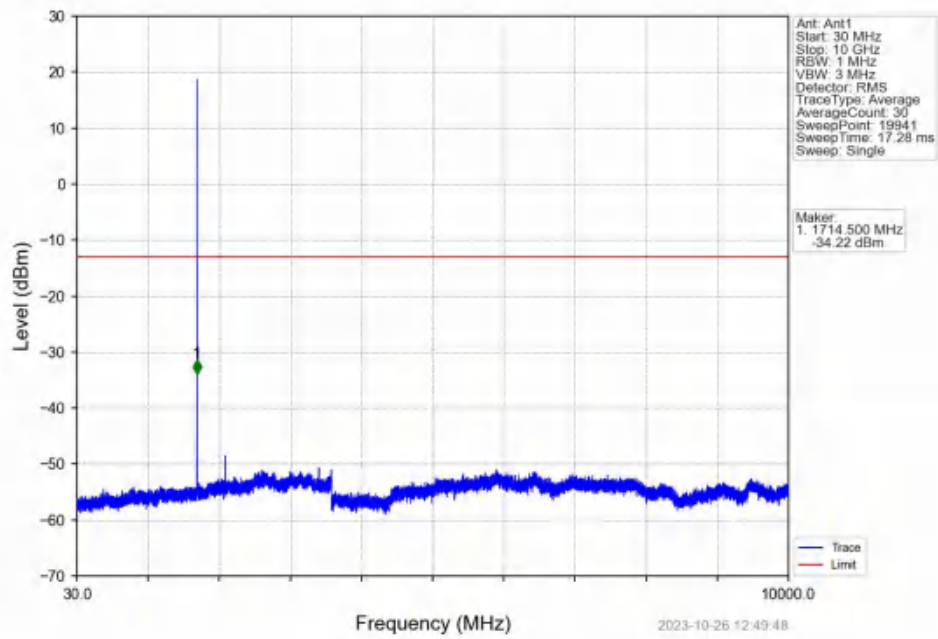
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



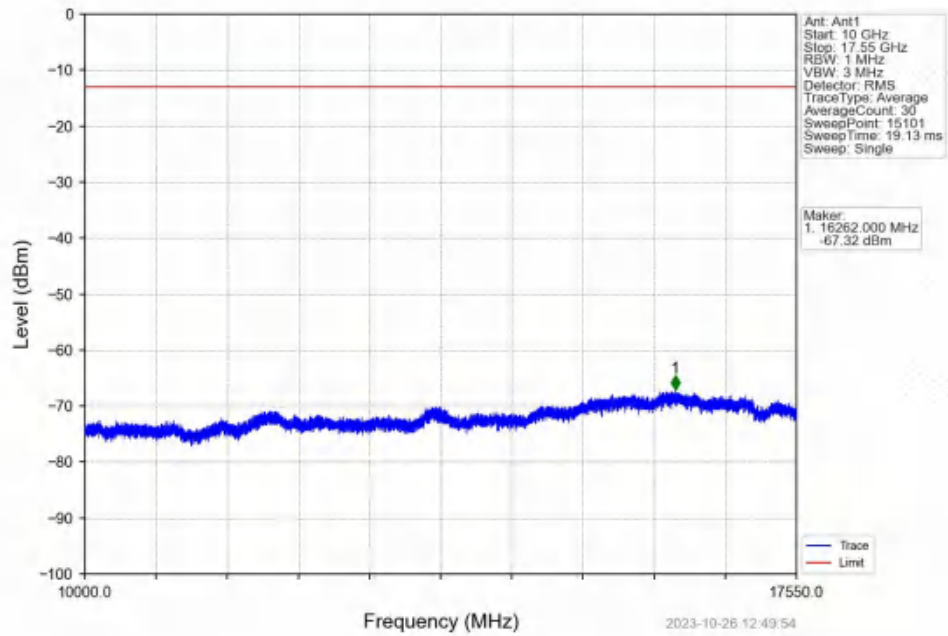
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



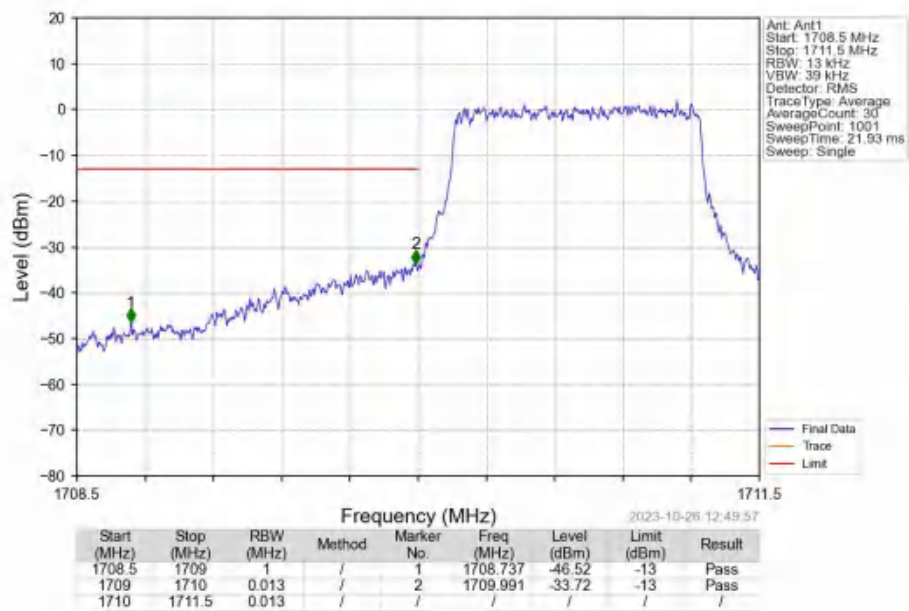
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



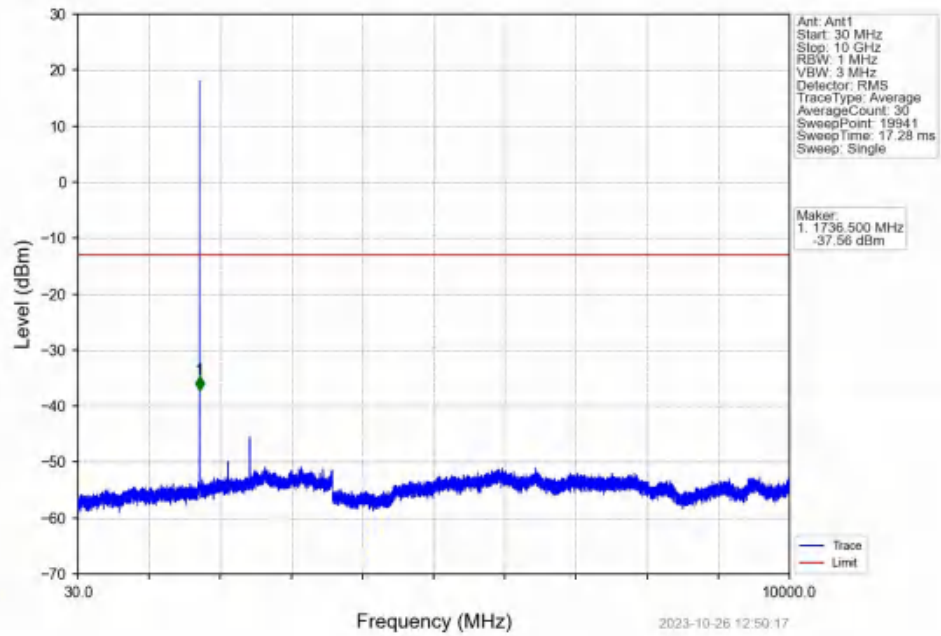
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



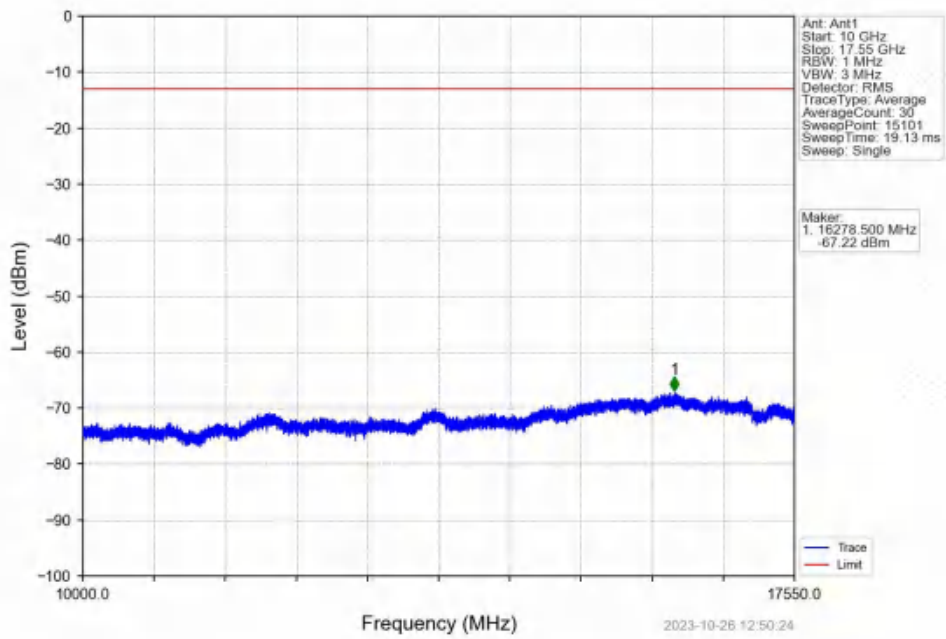
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



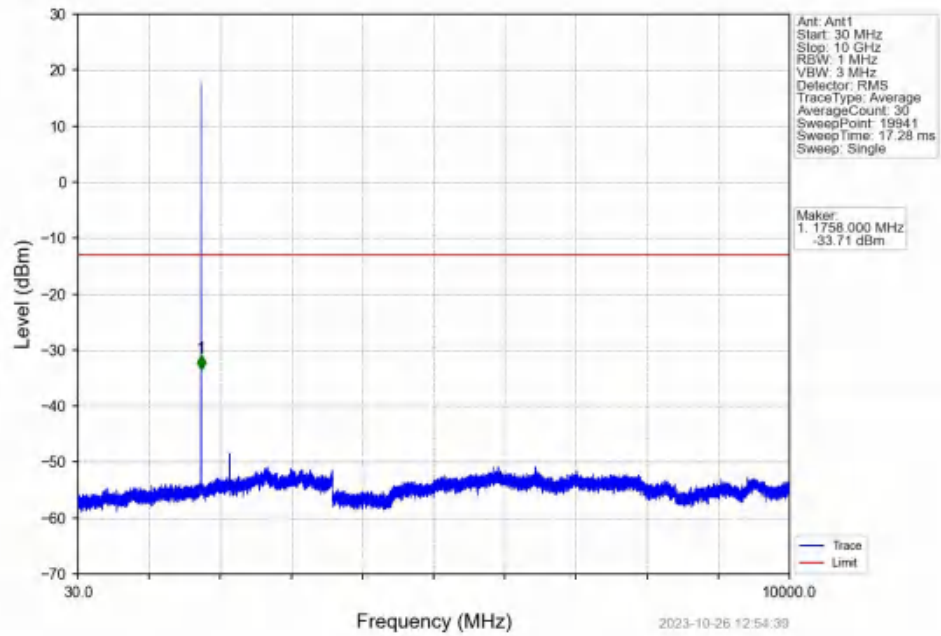
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



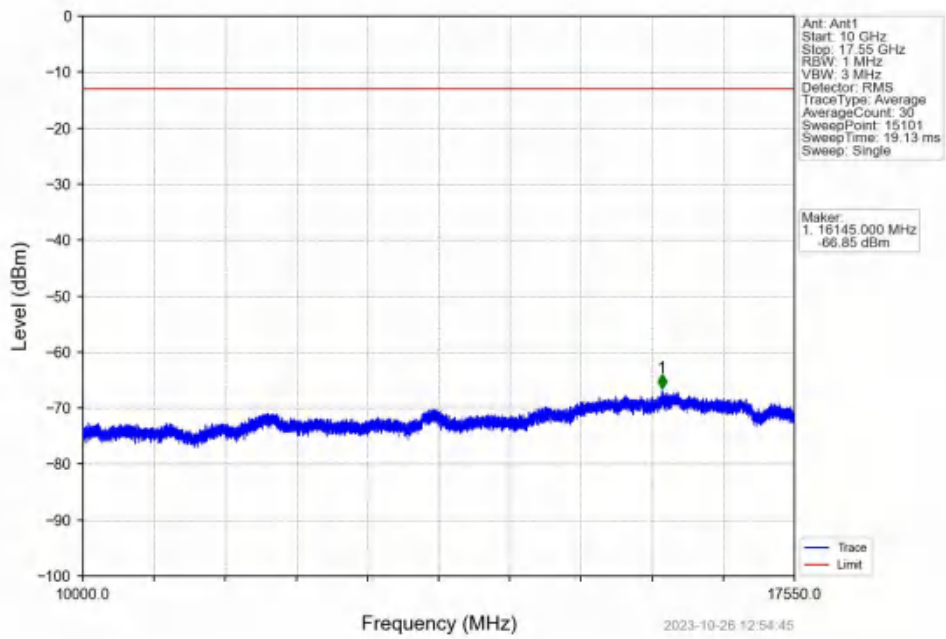
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



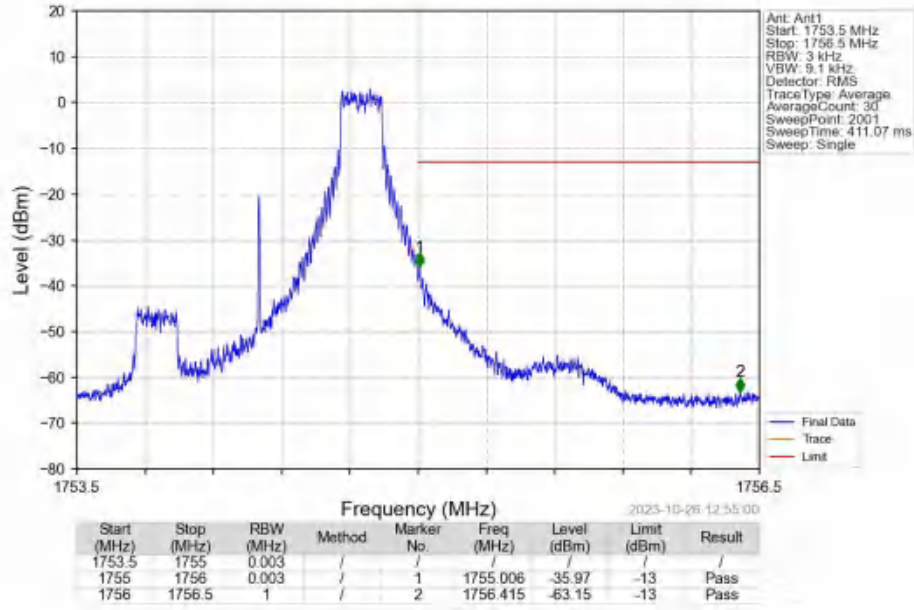
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



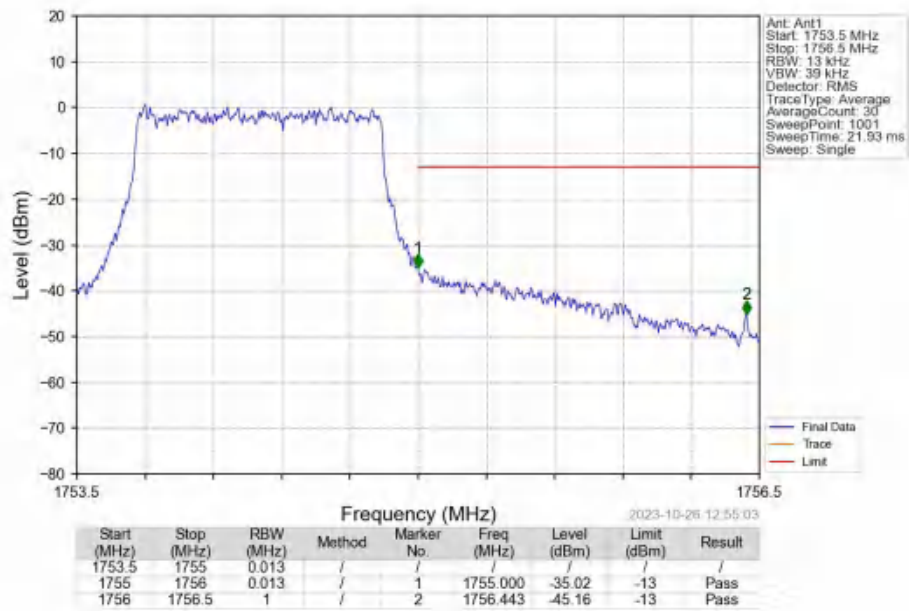
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_5_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV

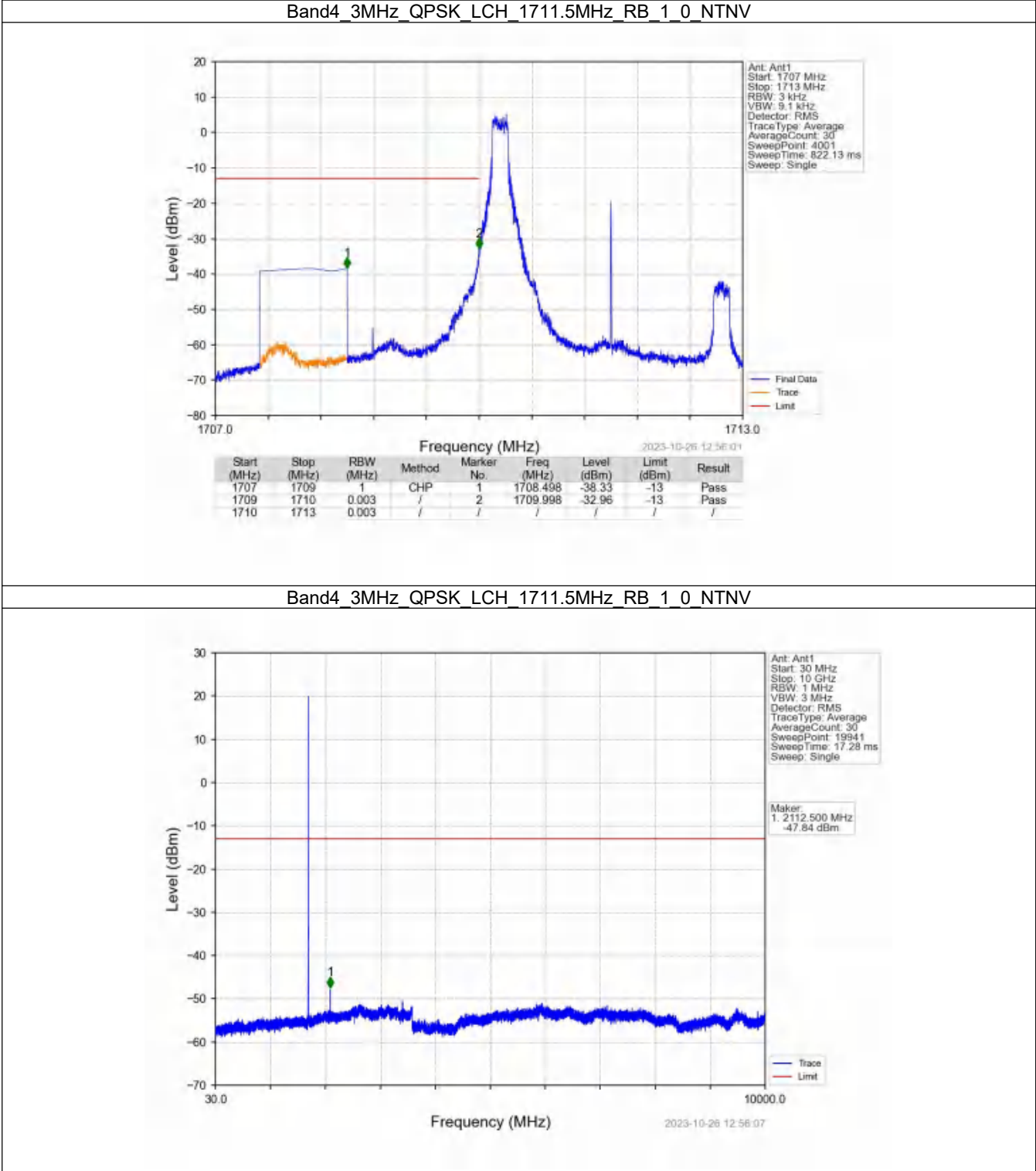


6.2 B4_3MHz

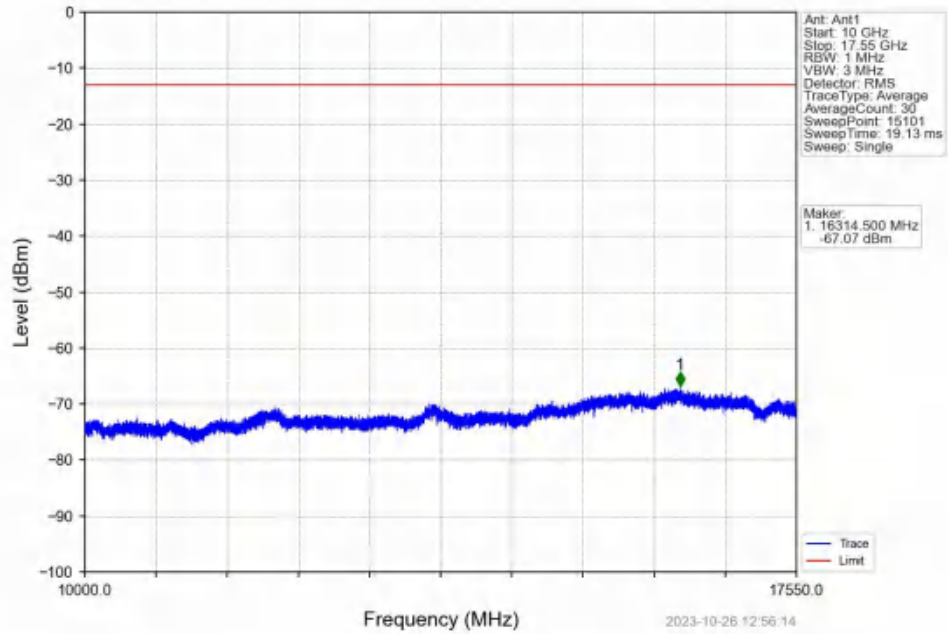
6.2.1 Test Result

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

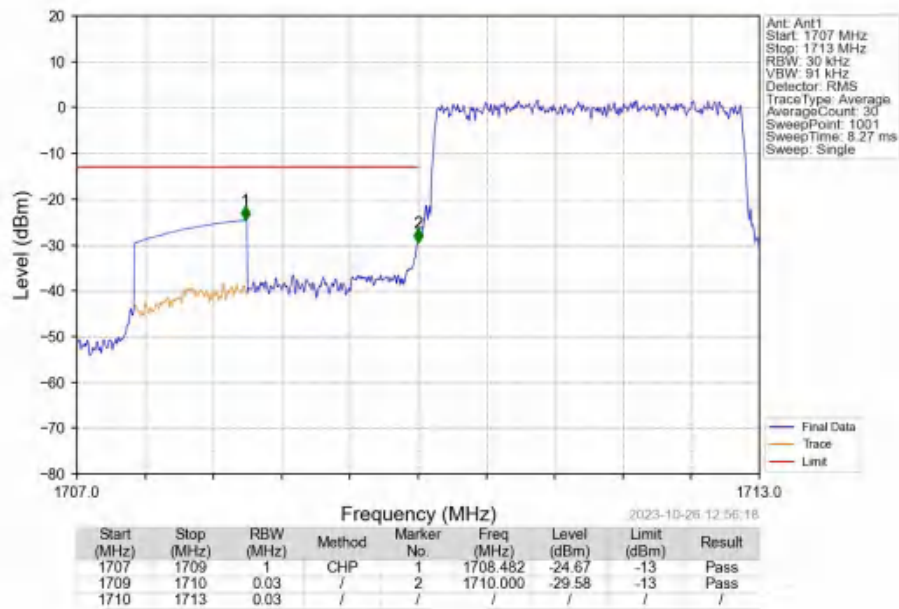
6.2.2 Test Graph



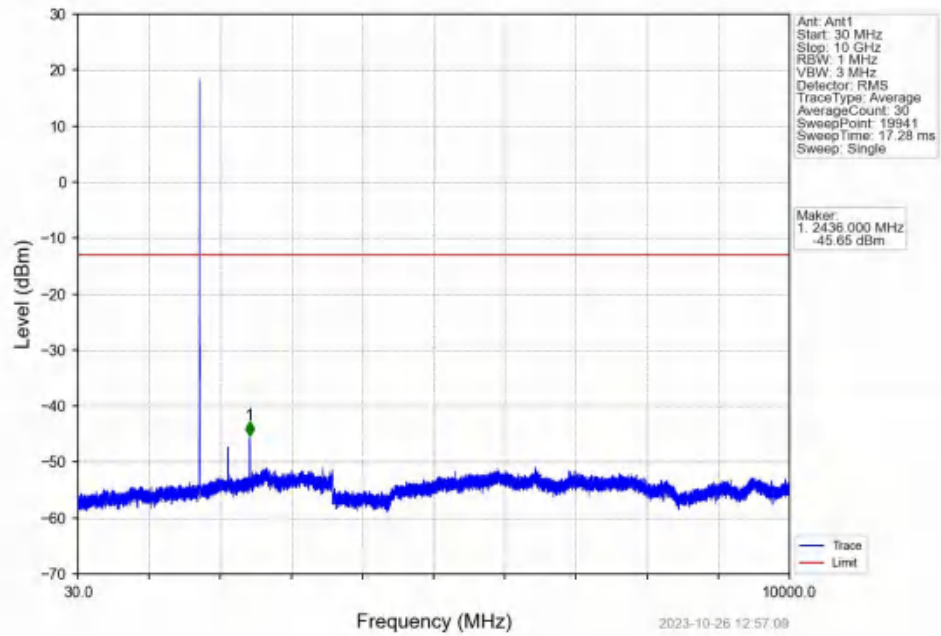
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



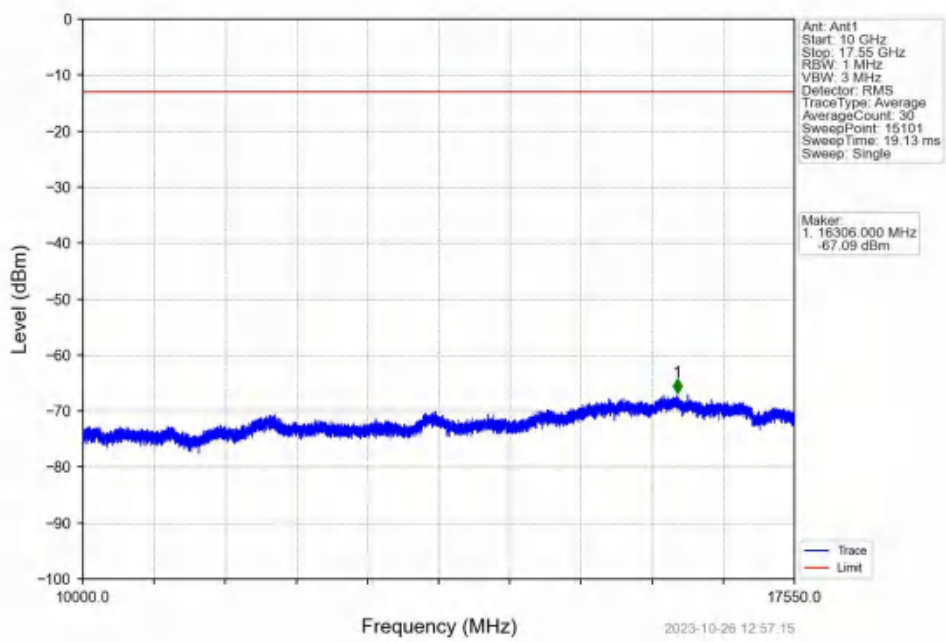
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



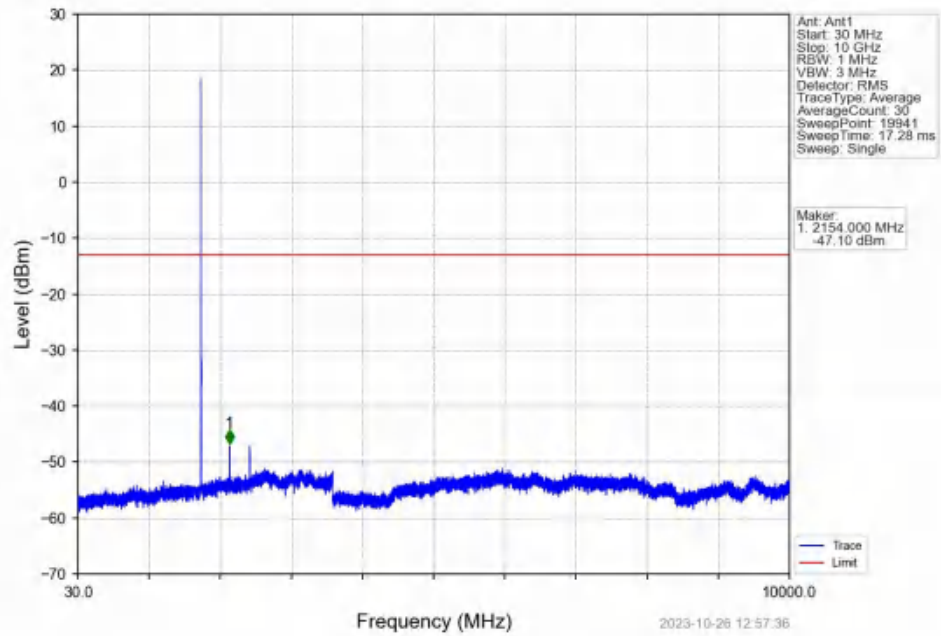
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



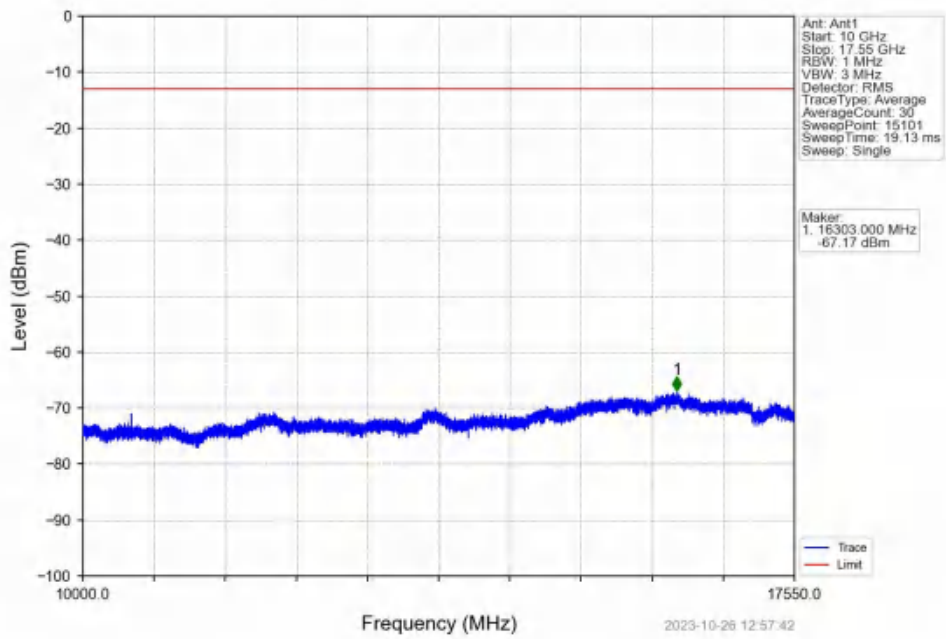
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



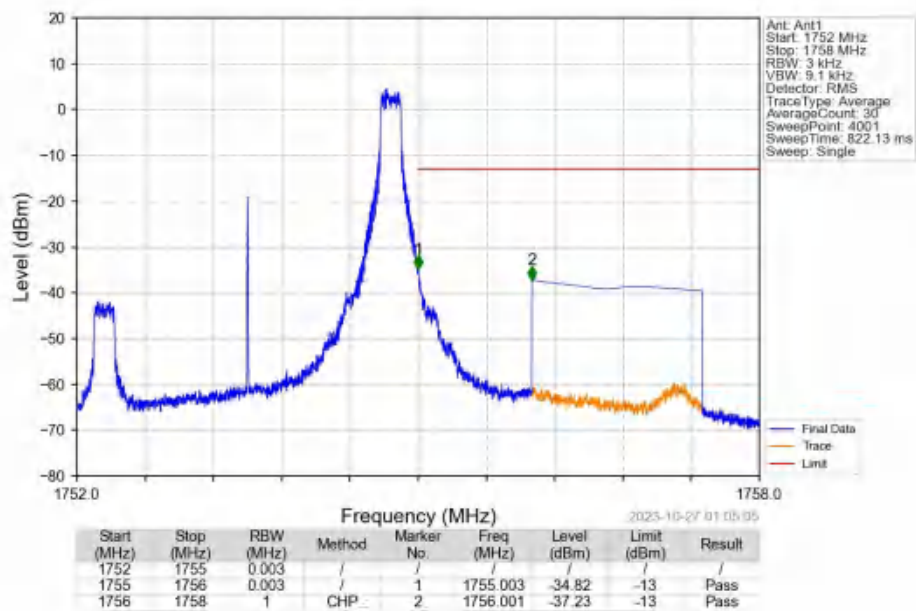
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



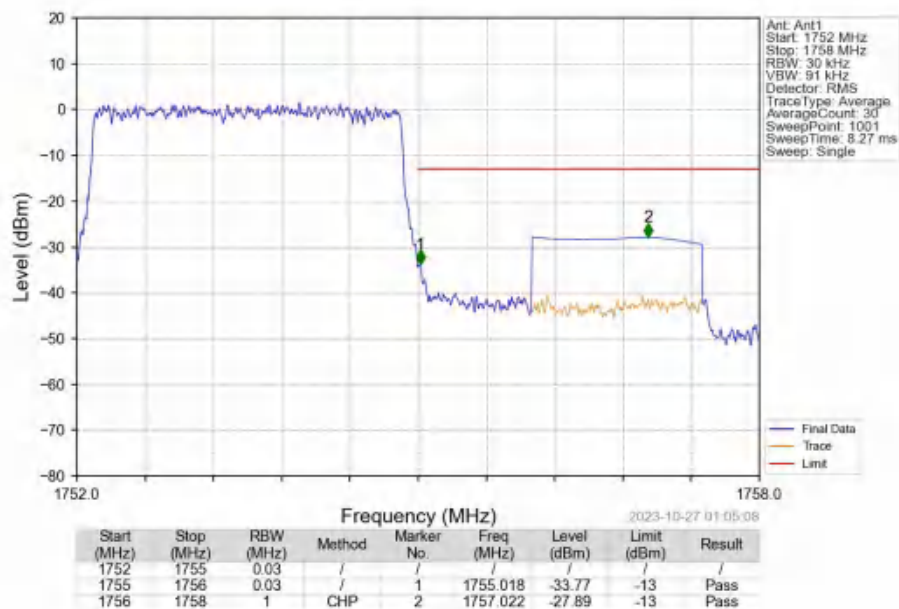
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



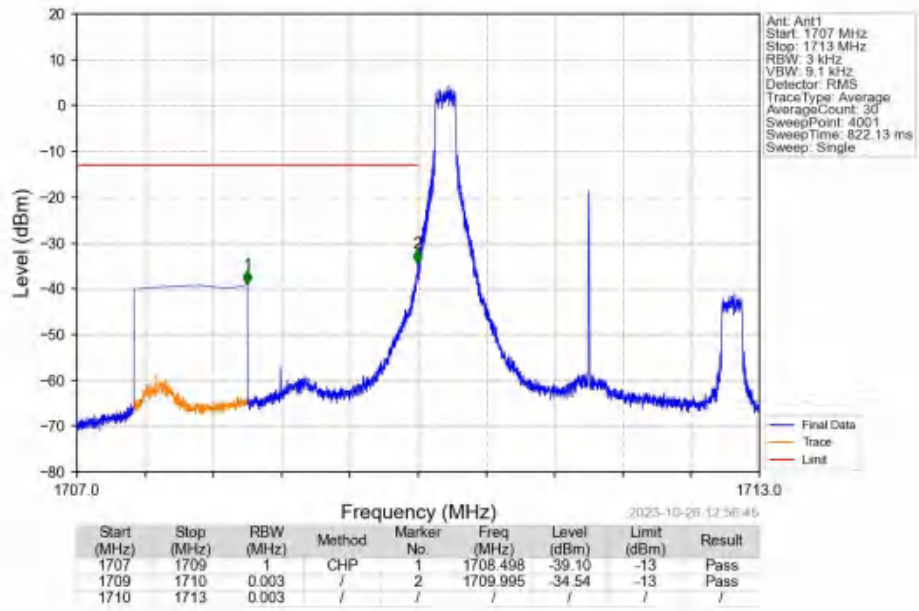
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



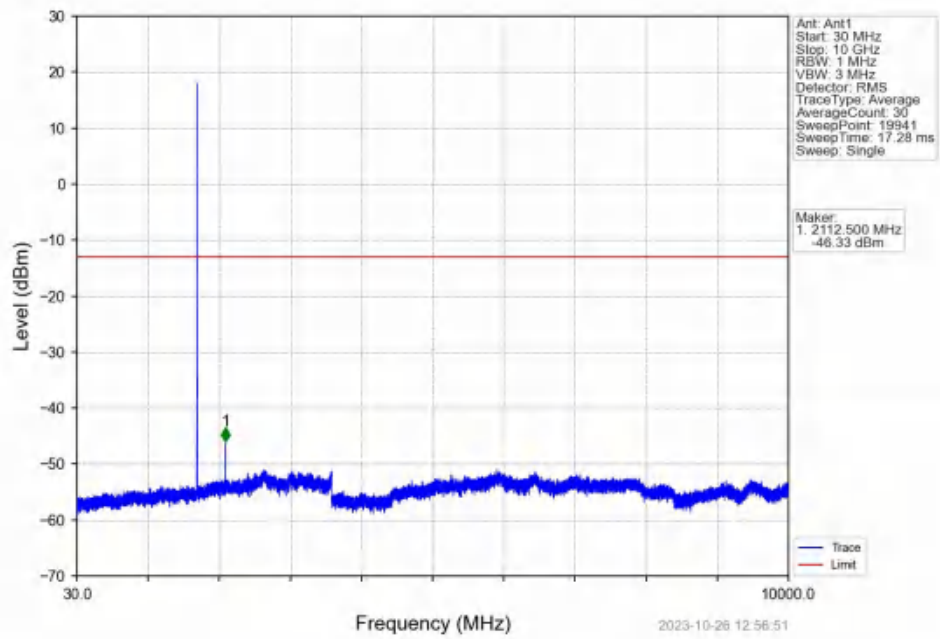
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



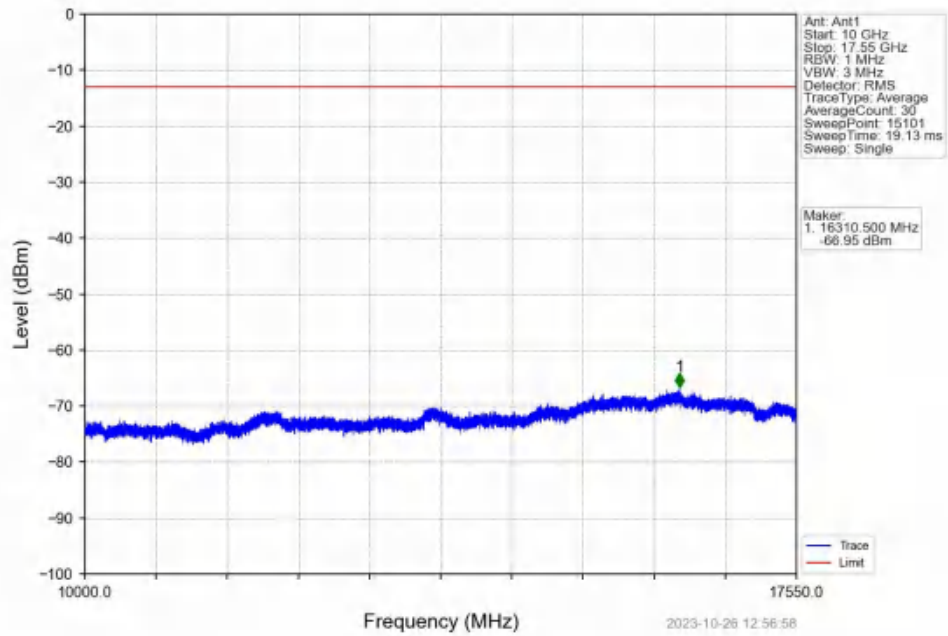
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



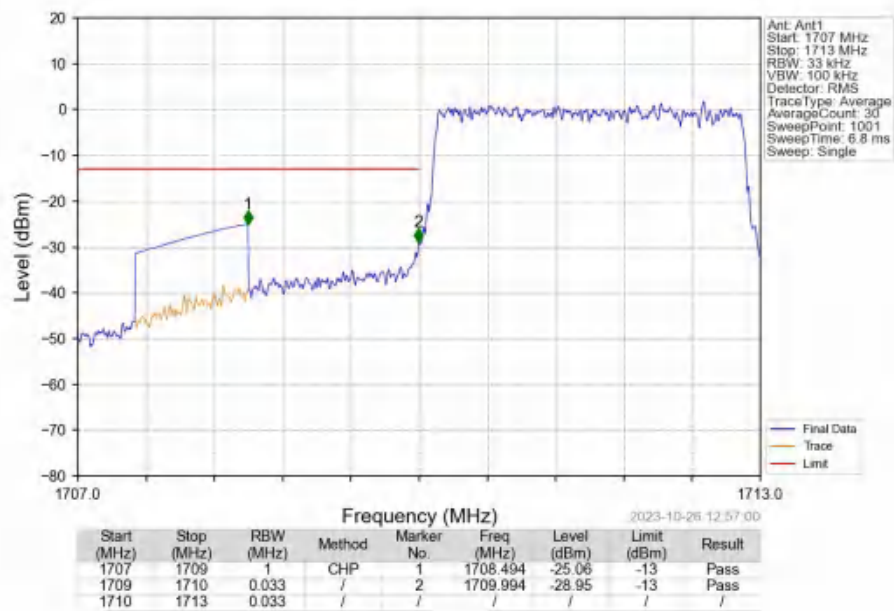
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



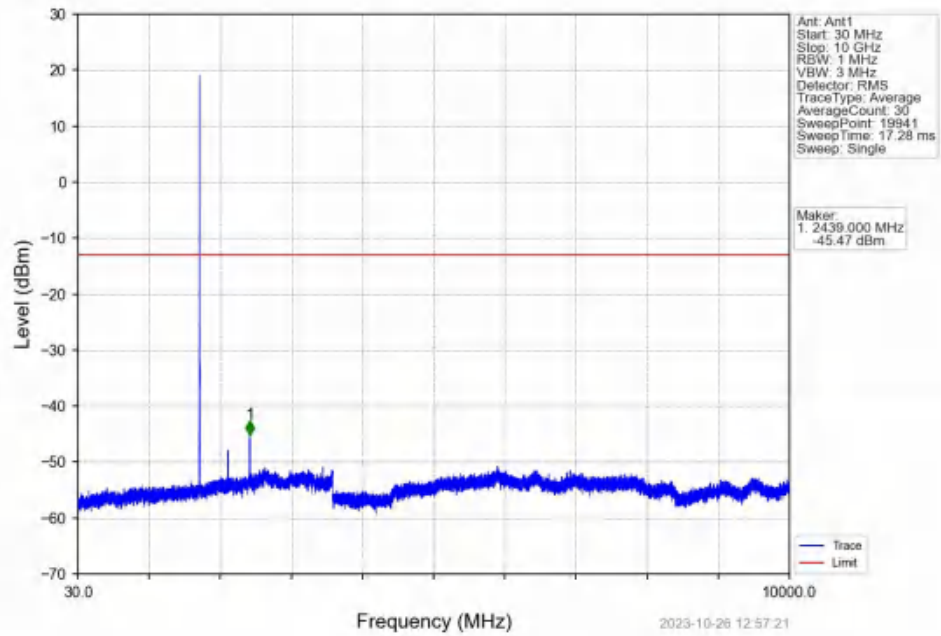
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



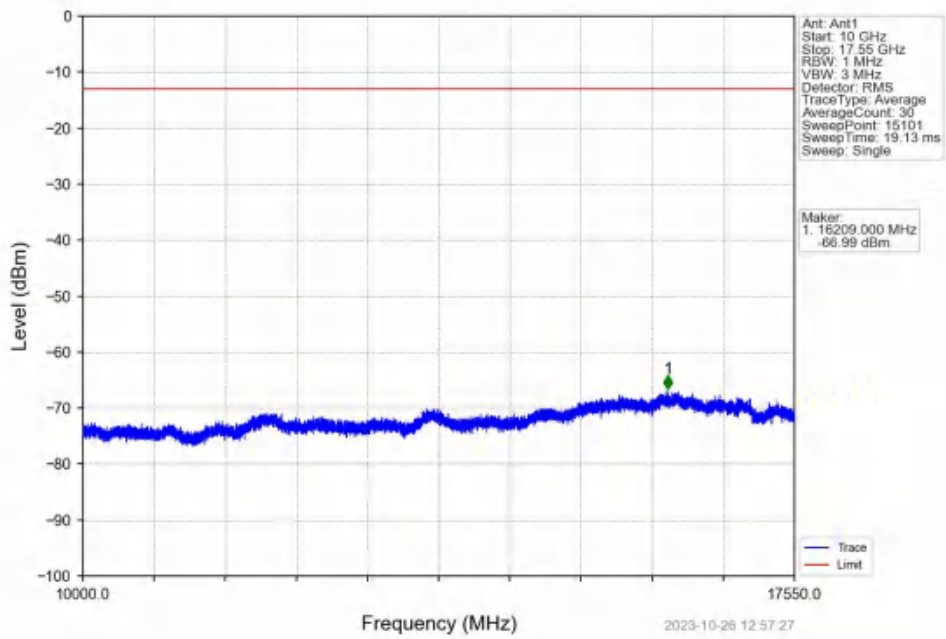
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



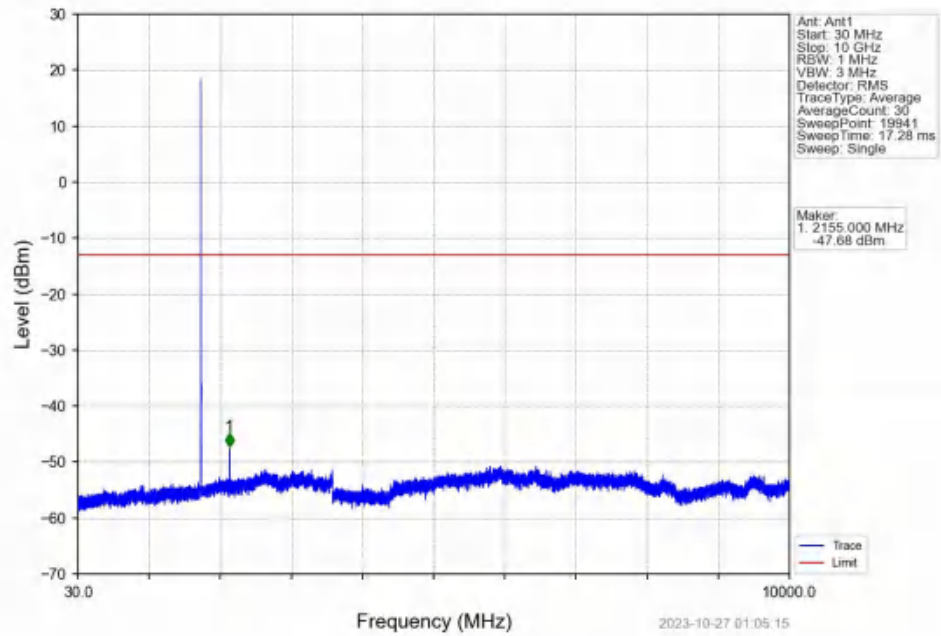
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



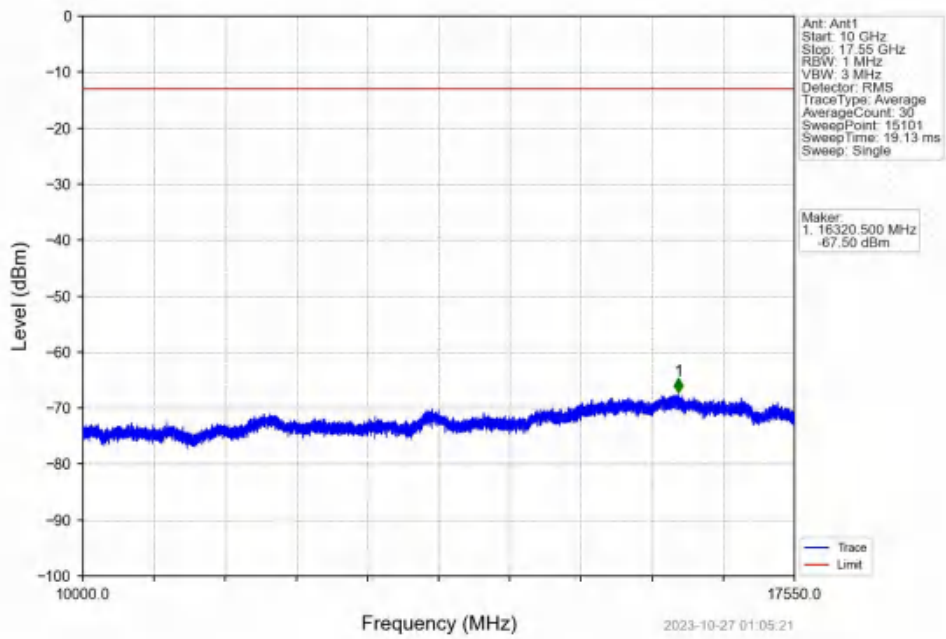
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



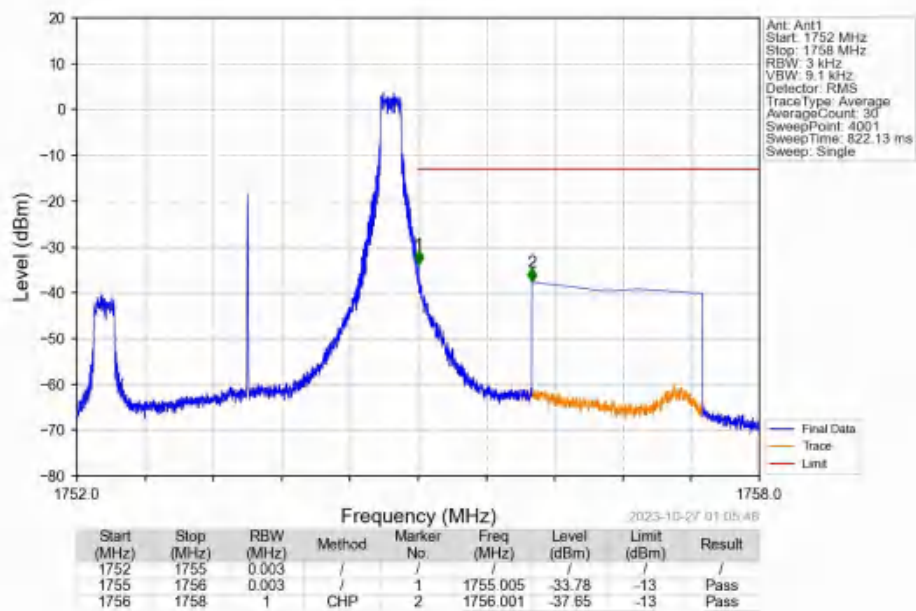
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV



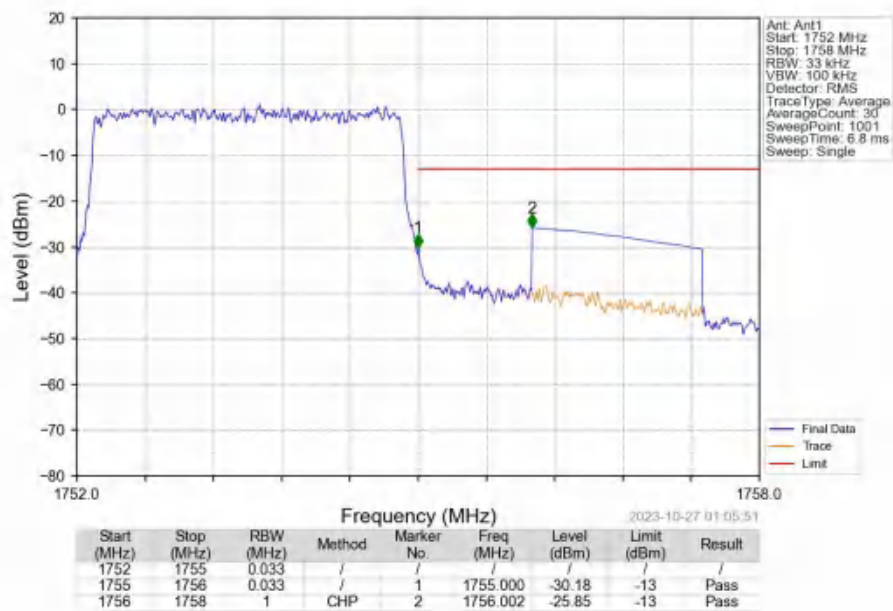
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_14_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV

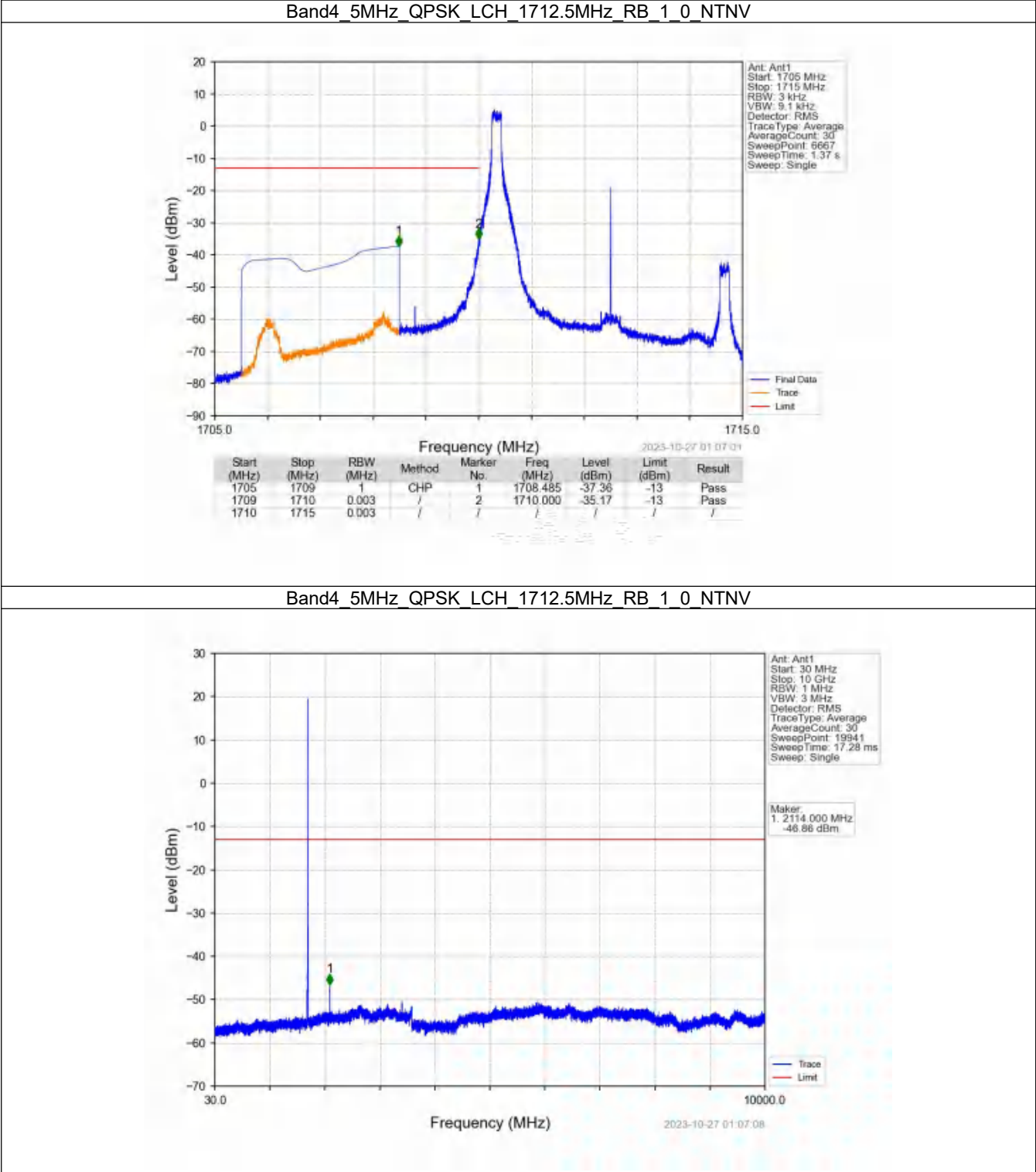


6.3 B4_5MHz

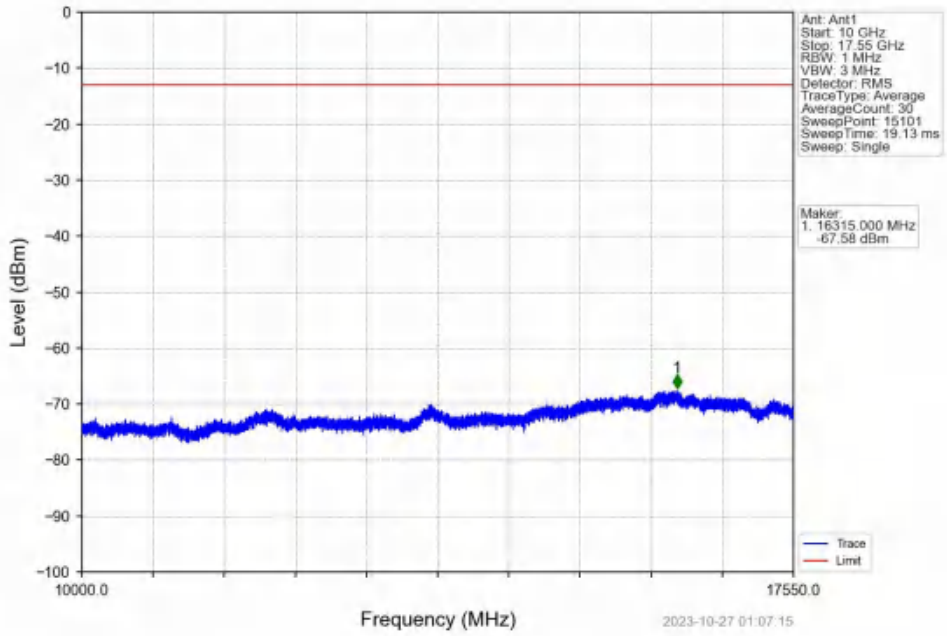
6.3.1 Test Result

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

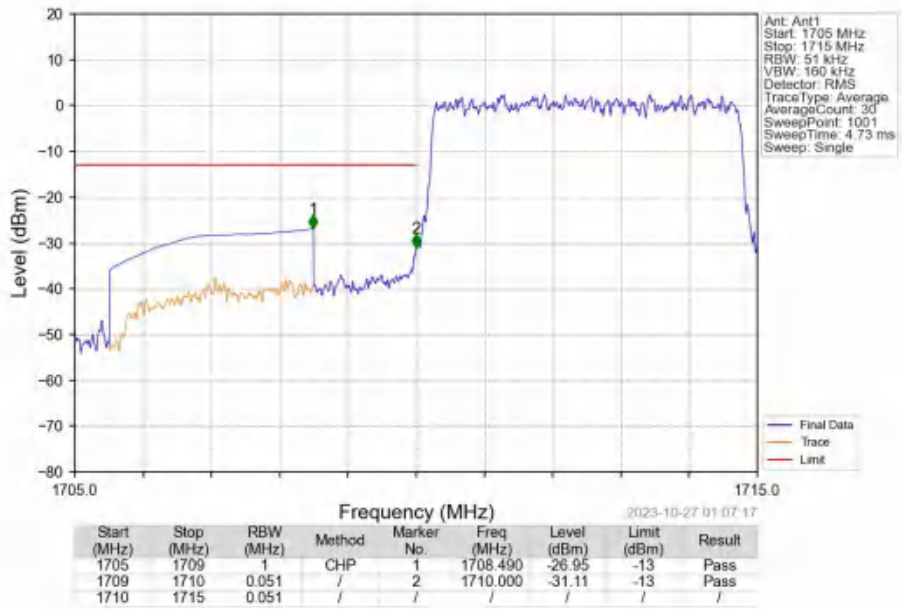
6.3.2 Test Graph



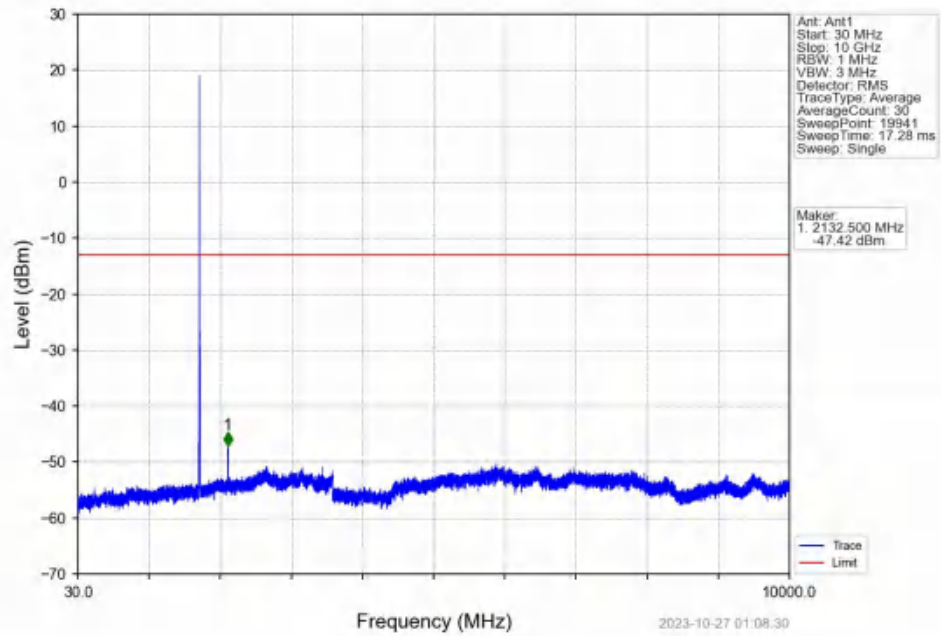
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



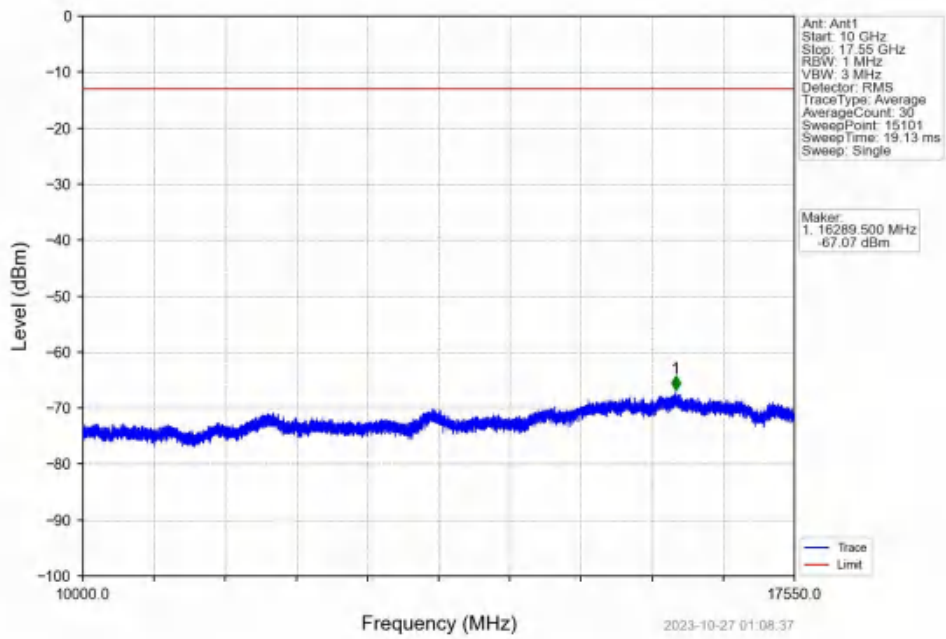
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



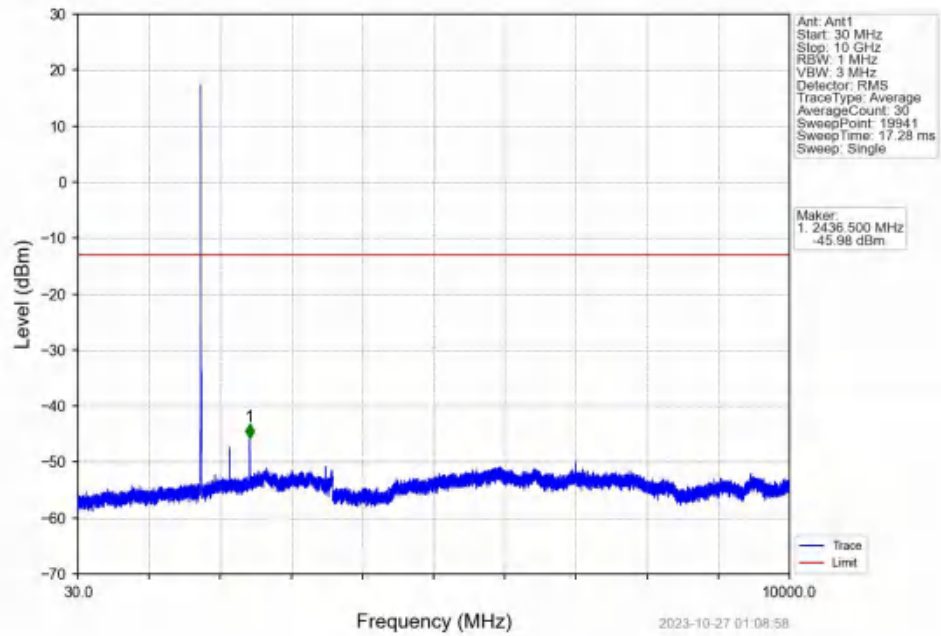
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



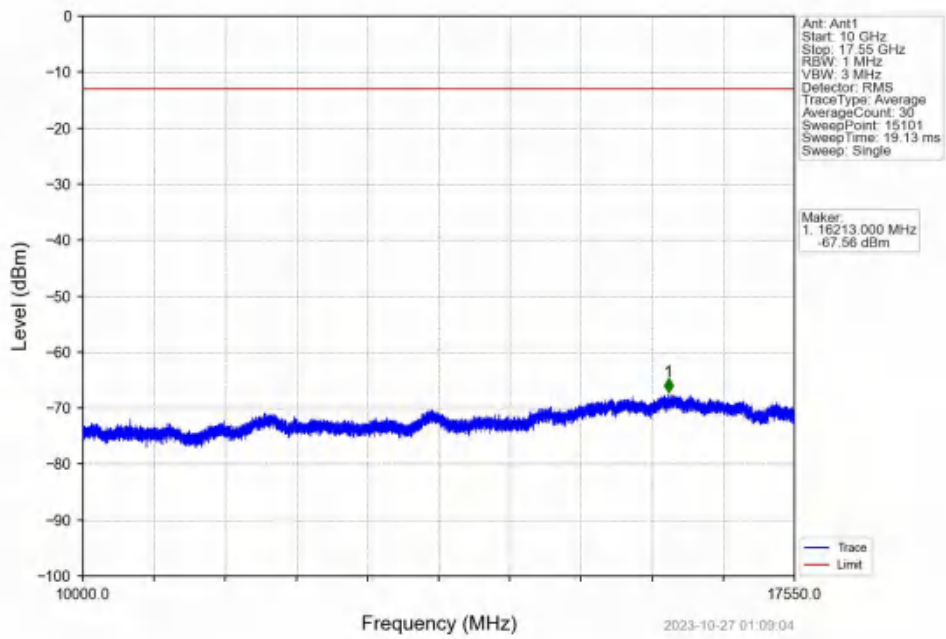
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



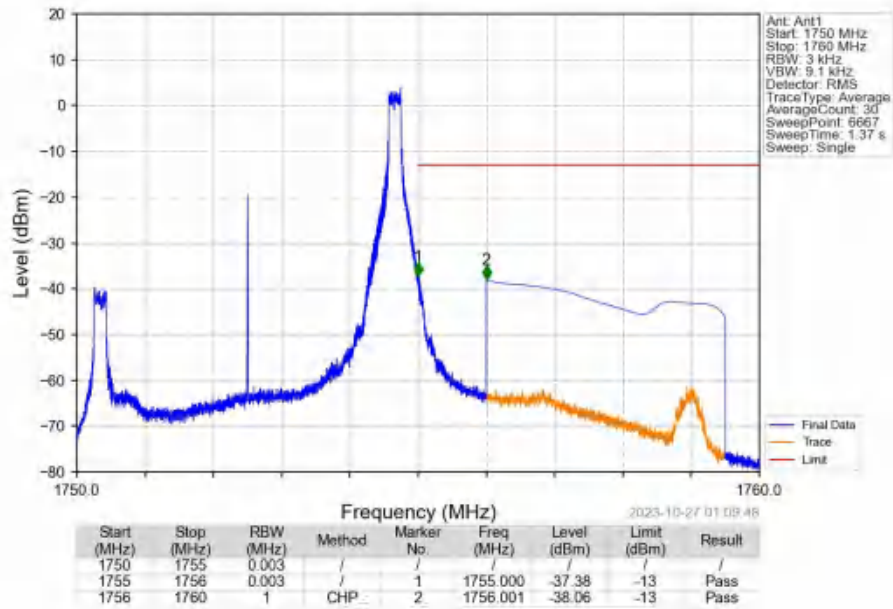
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV



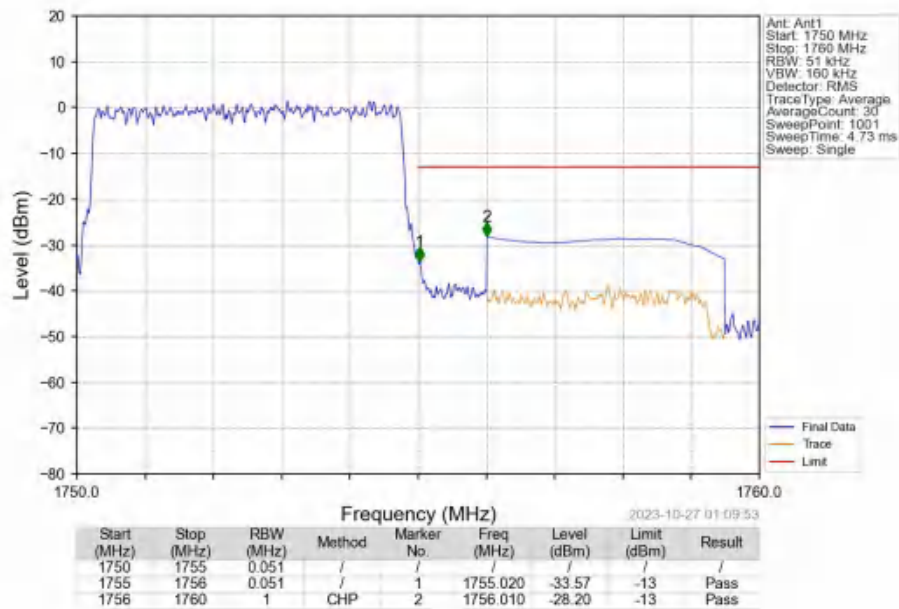
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV



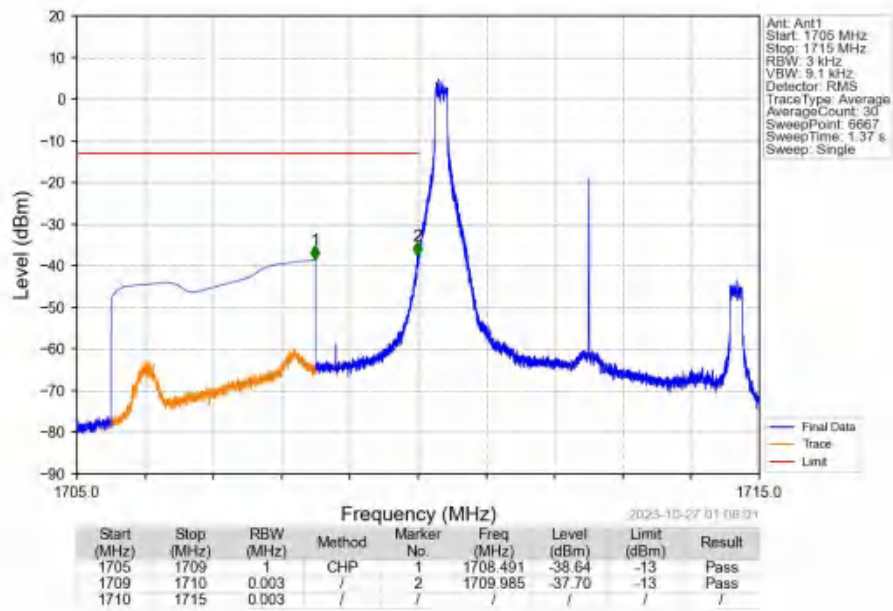
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_24_NTNV



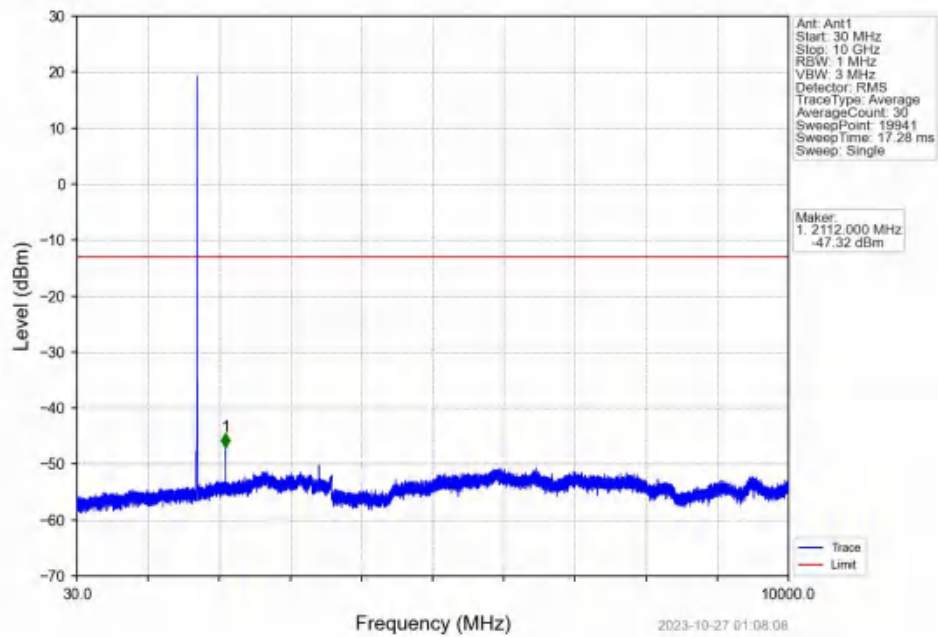
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



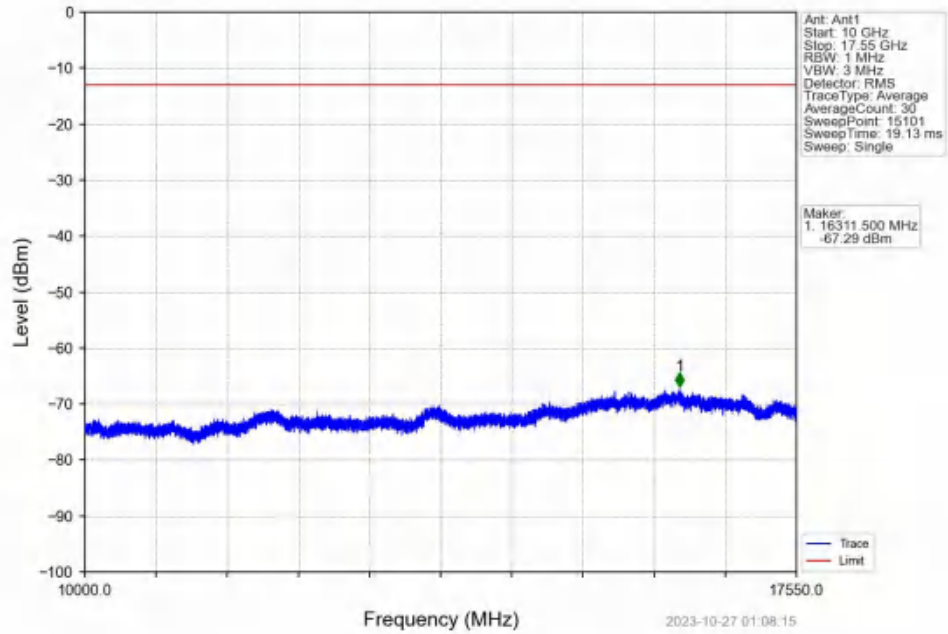
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV



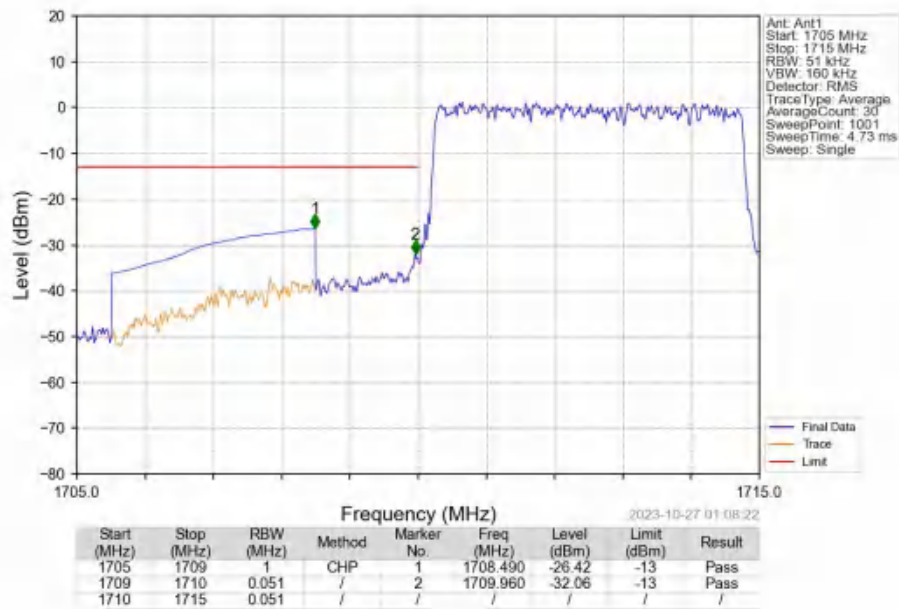
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV



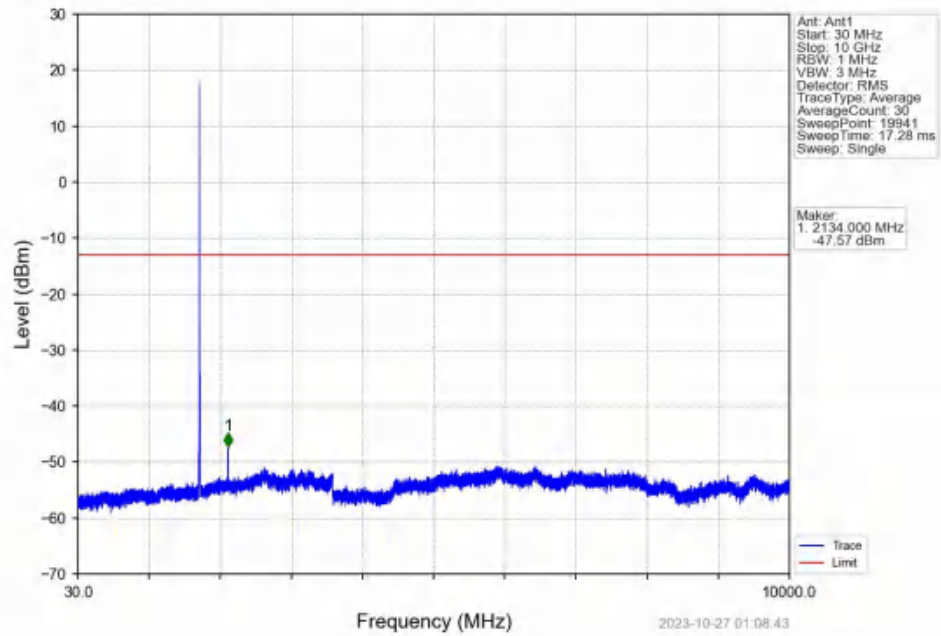
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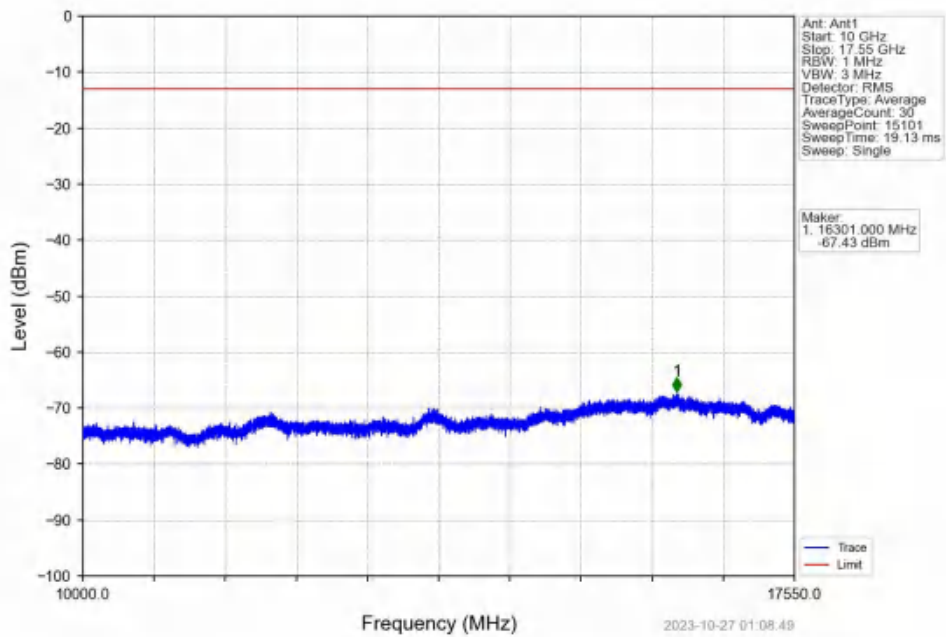
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



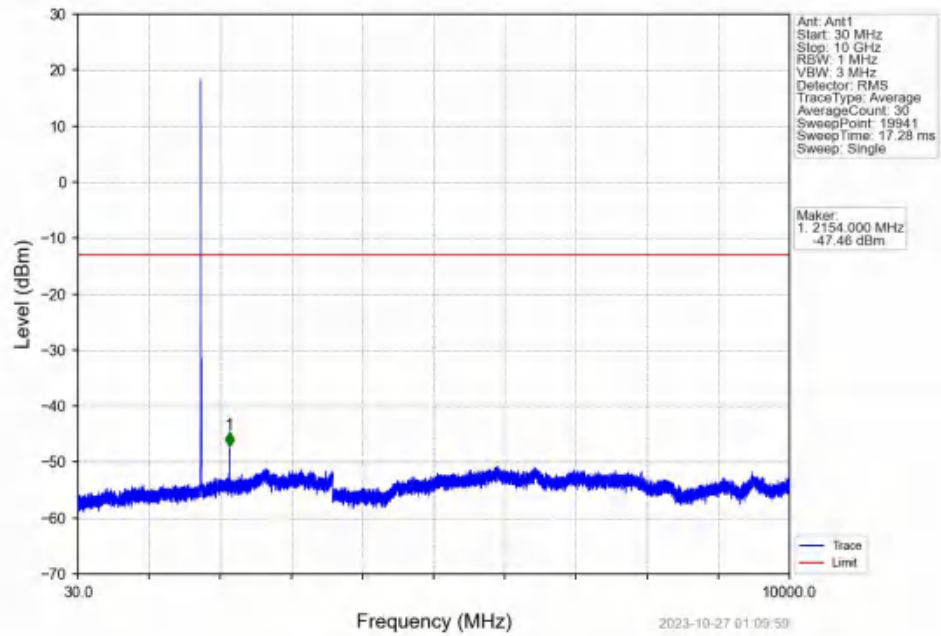
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



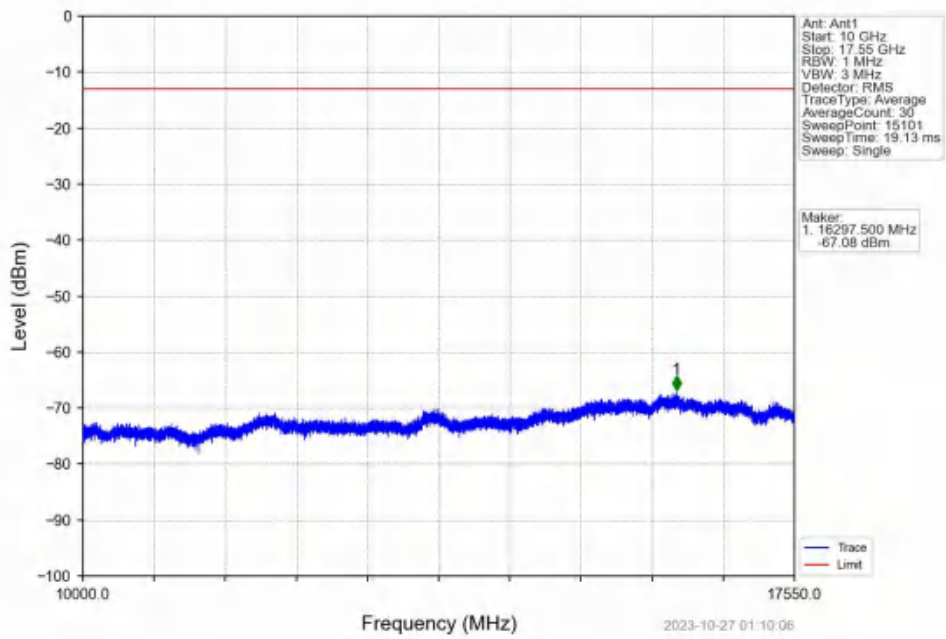
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



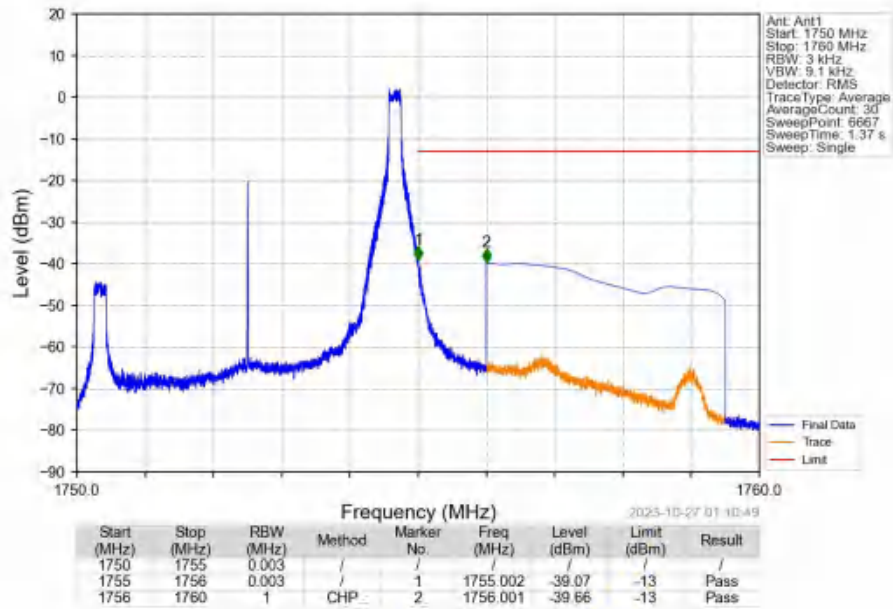
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_0_NTNV



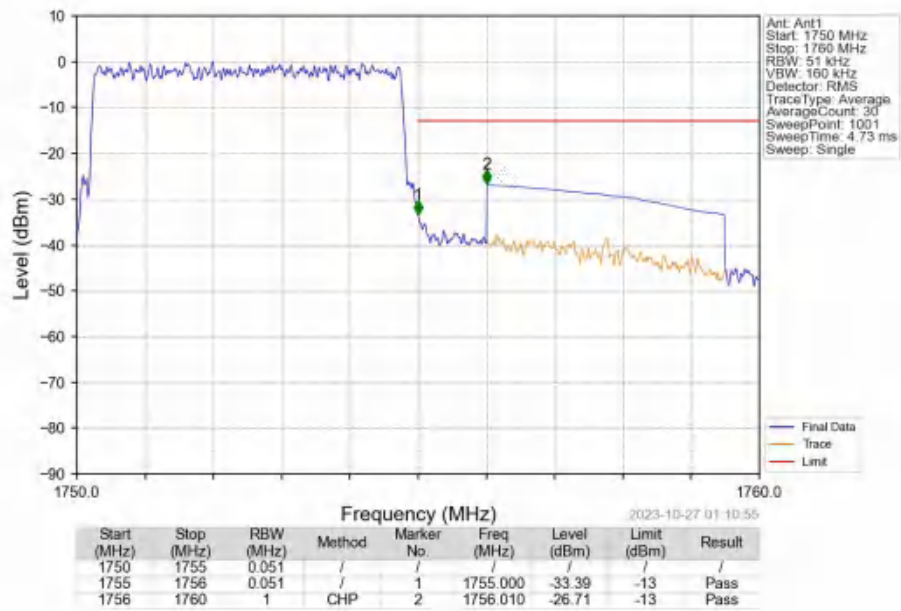
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_24_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

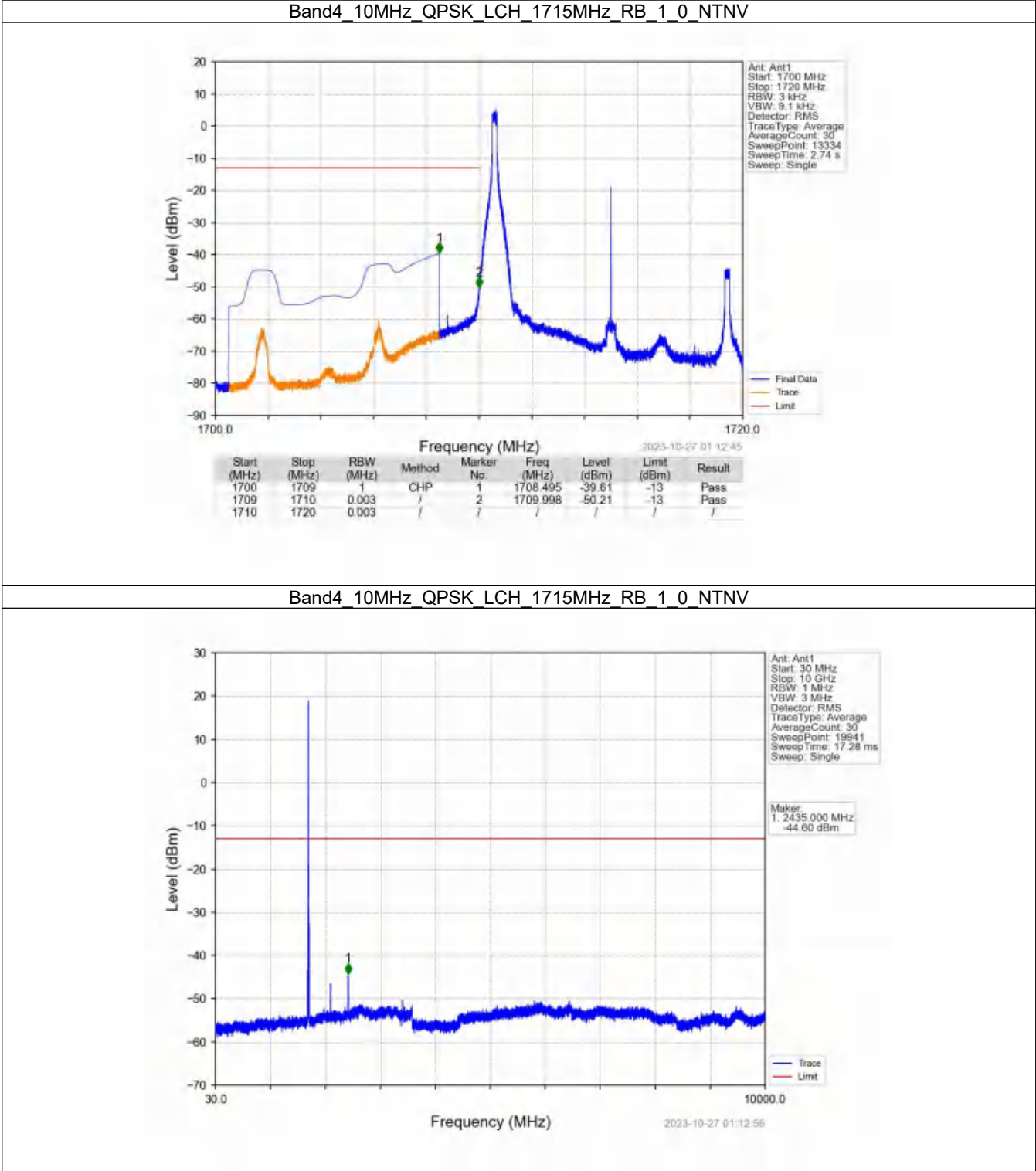


6.4 B4_10MHz

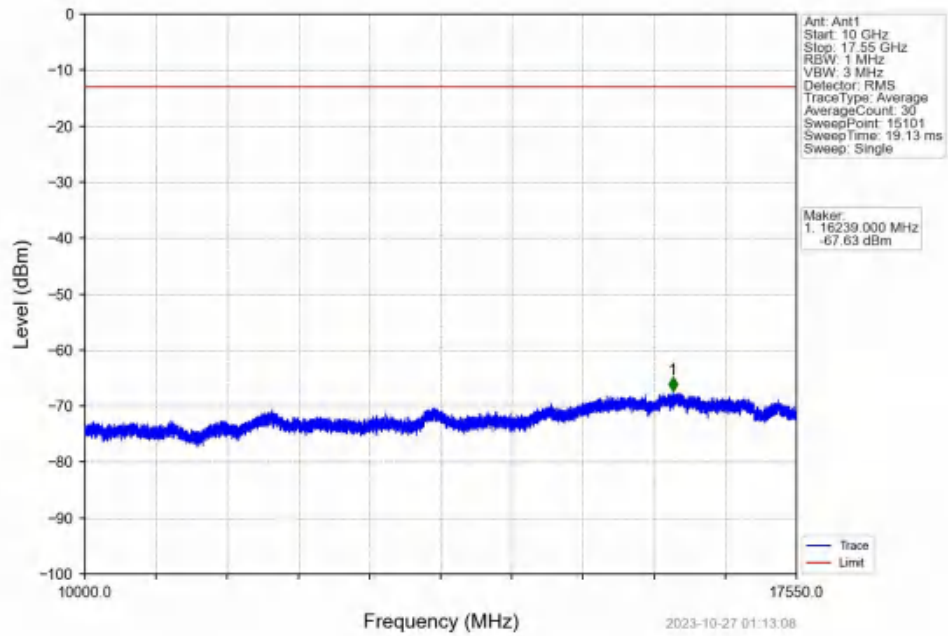
6.4.1 Test Result

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

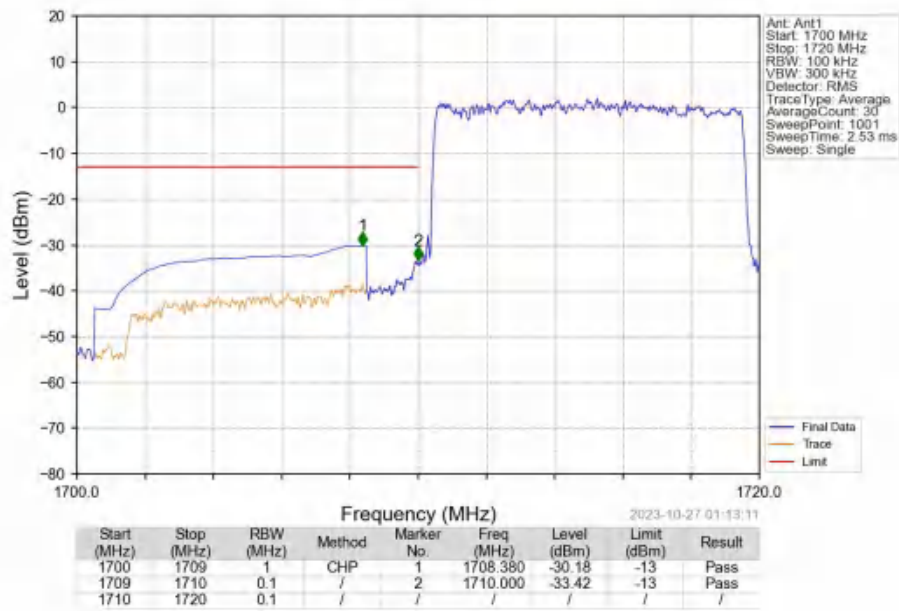
6.4.2 Test Graph



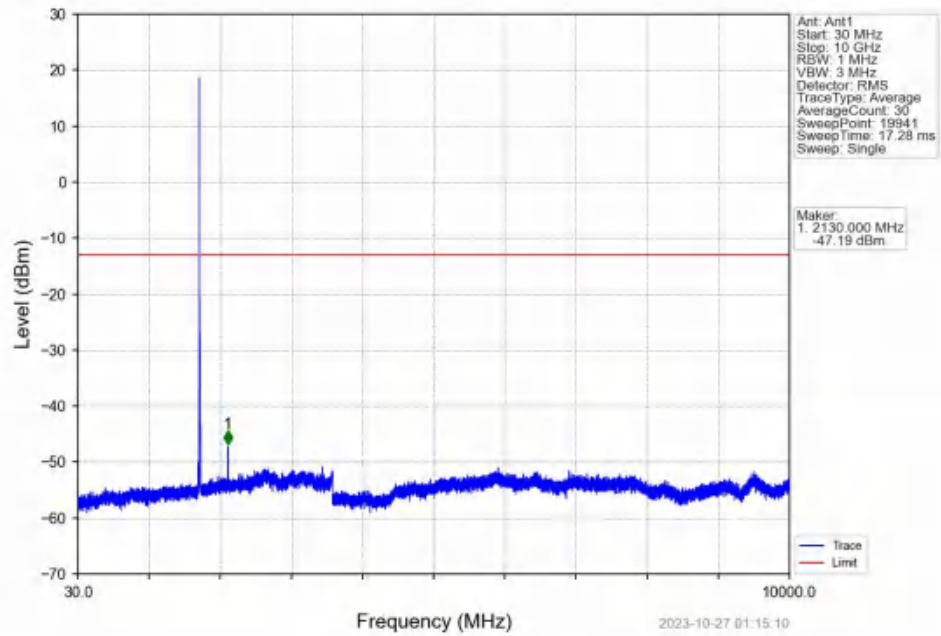
Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



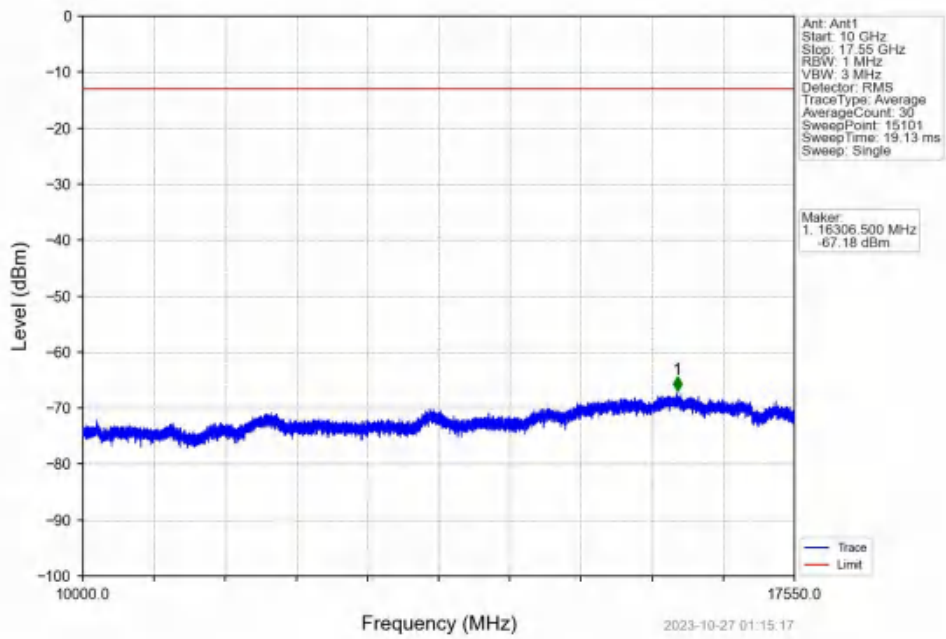
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



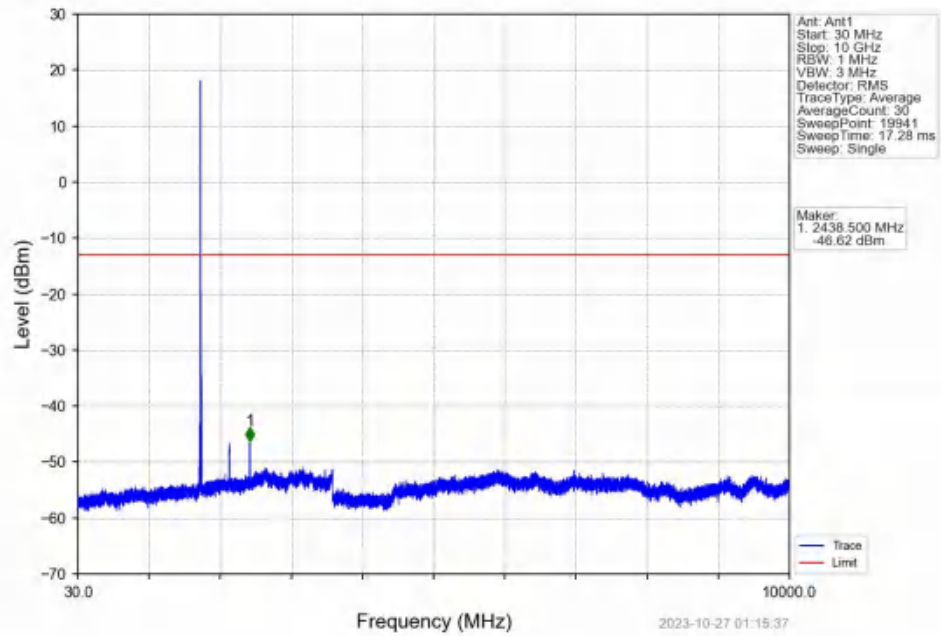
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



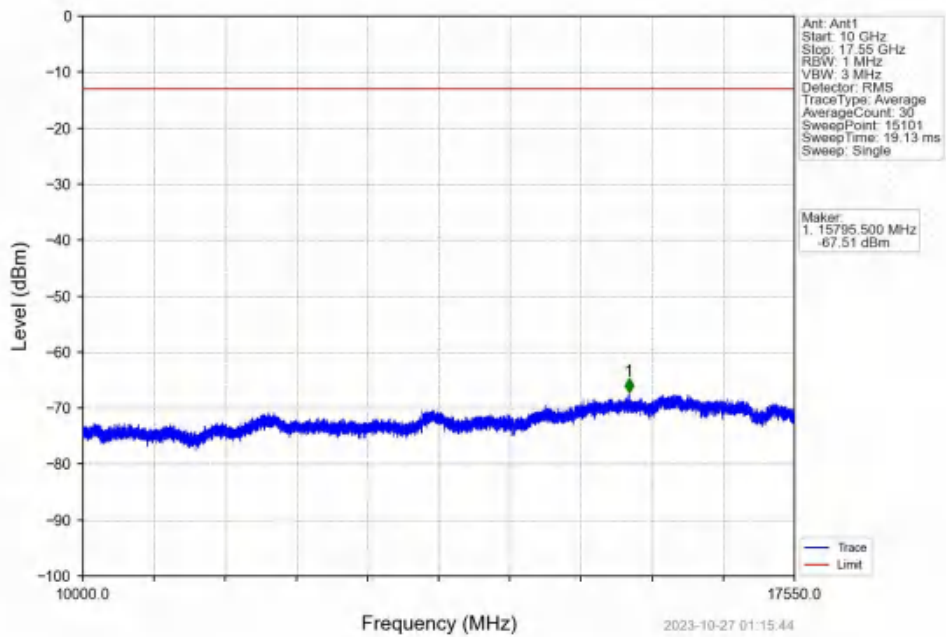
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



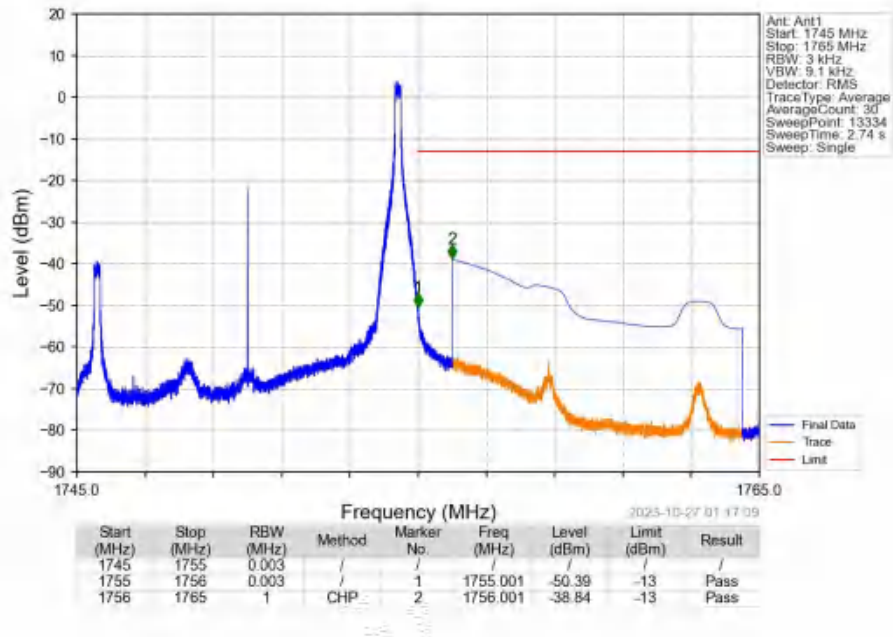
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



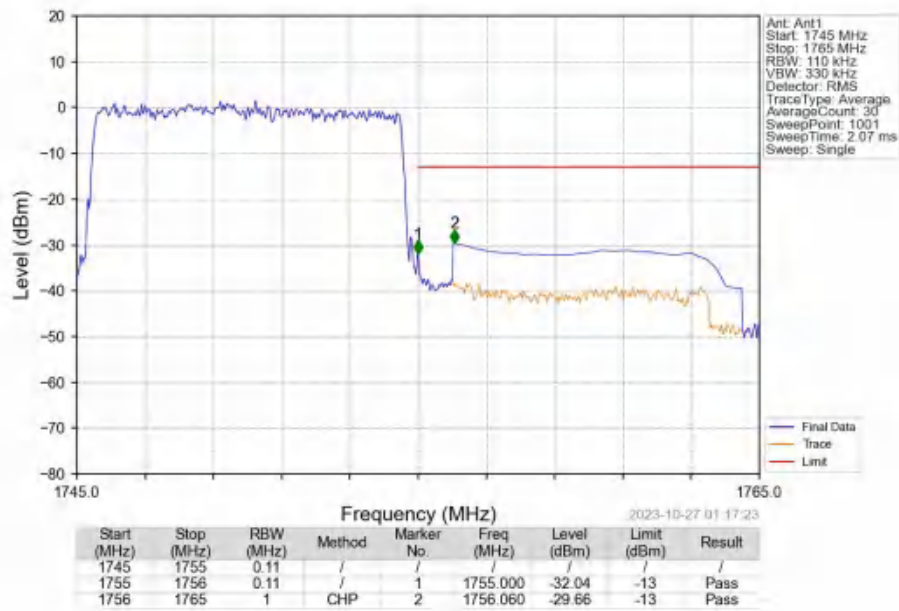
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



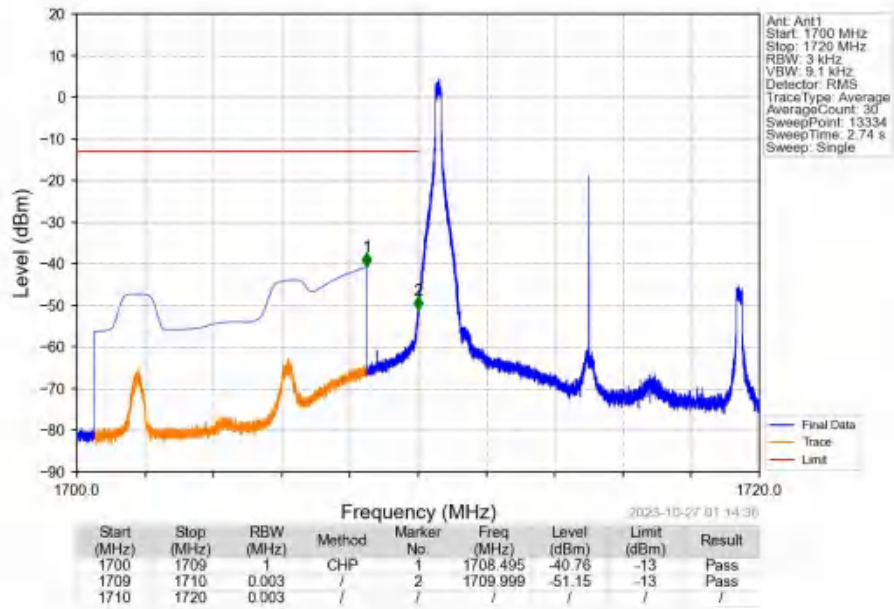
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_49_NTNV



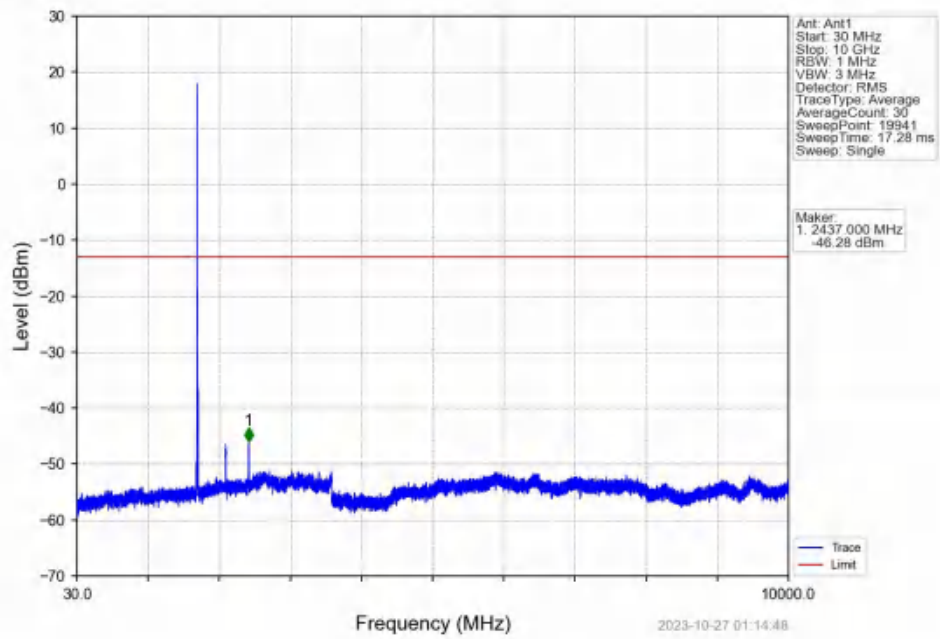
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



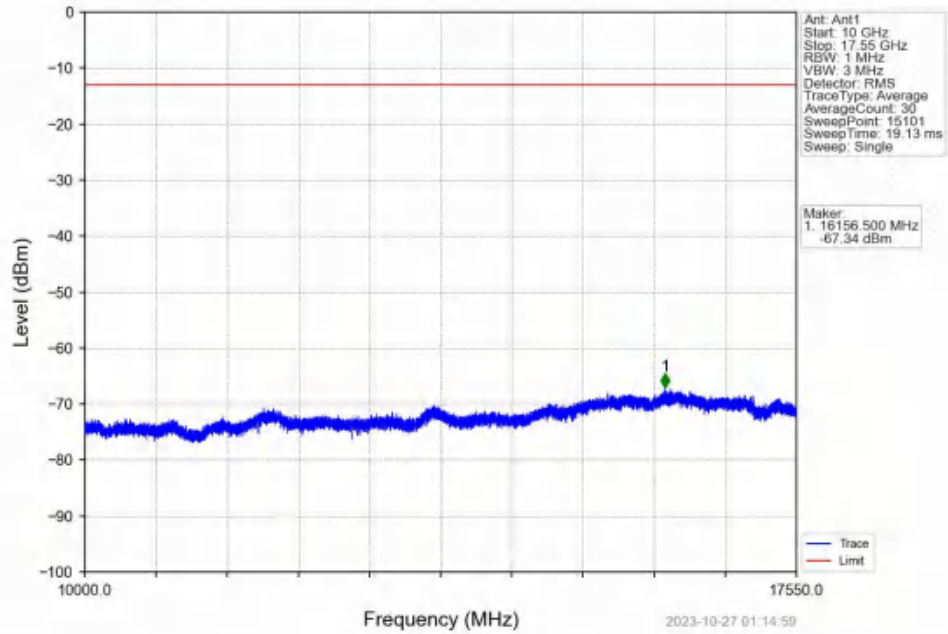
Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV



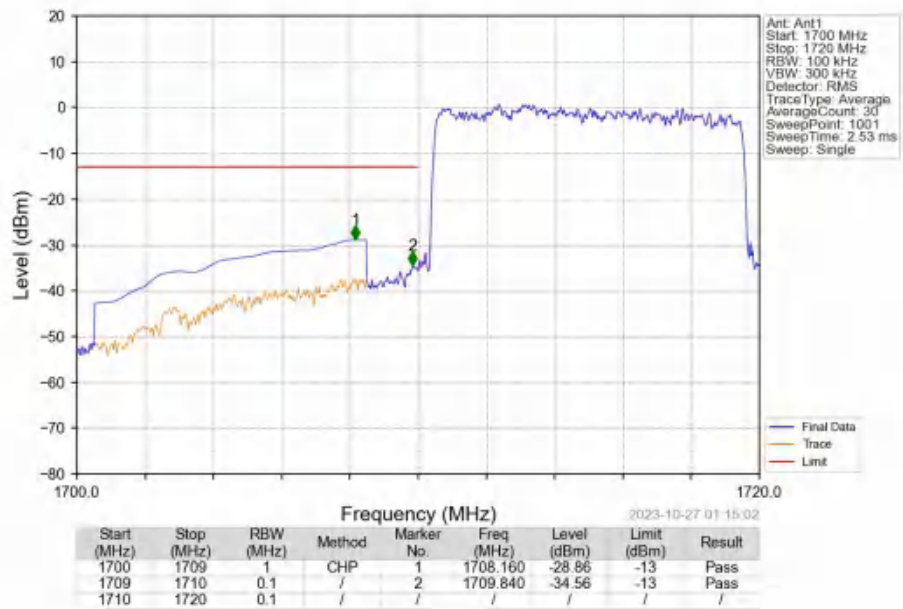
Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV



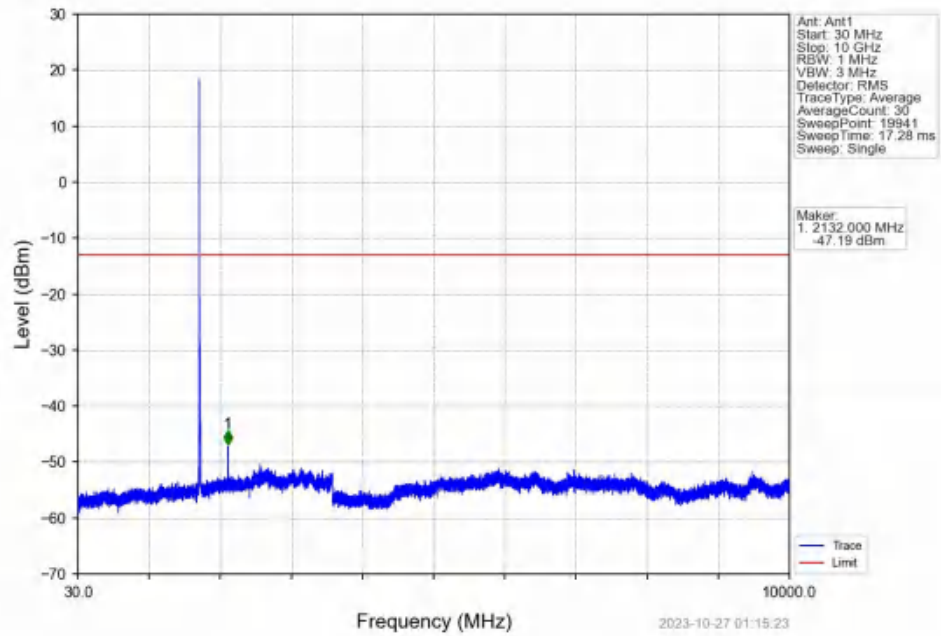
Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV



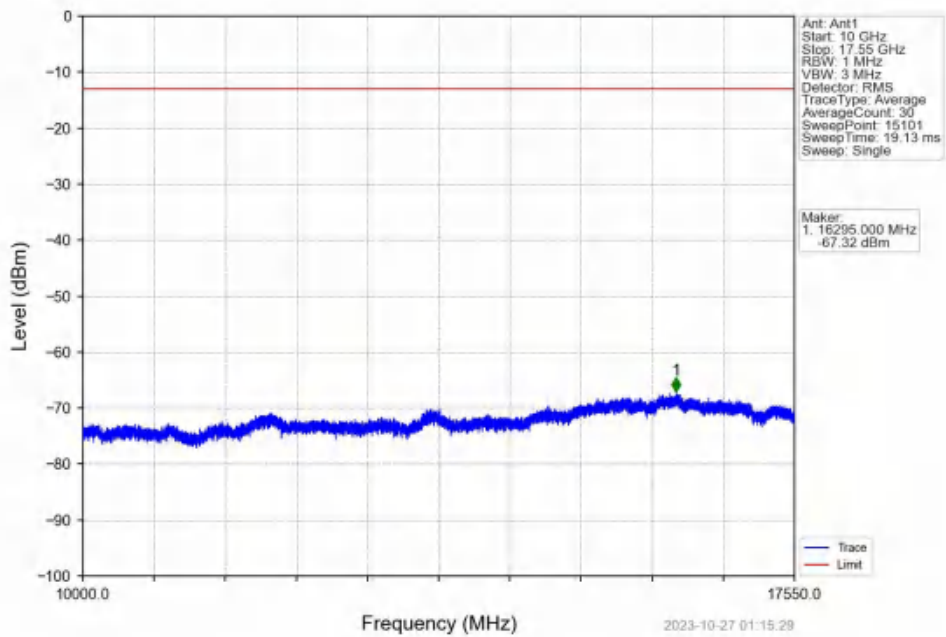
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



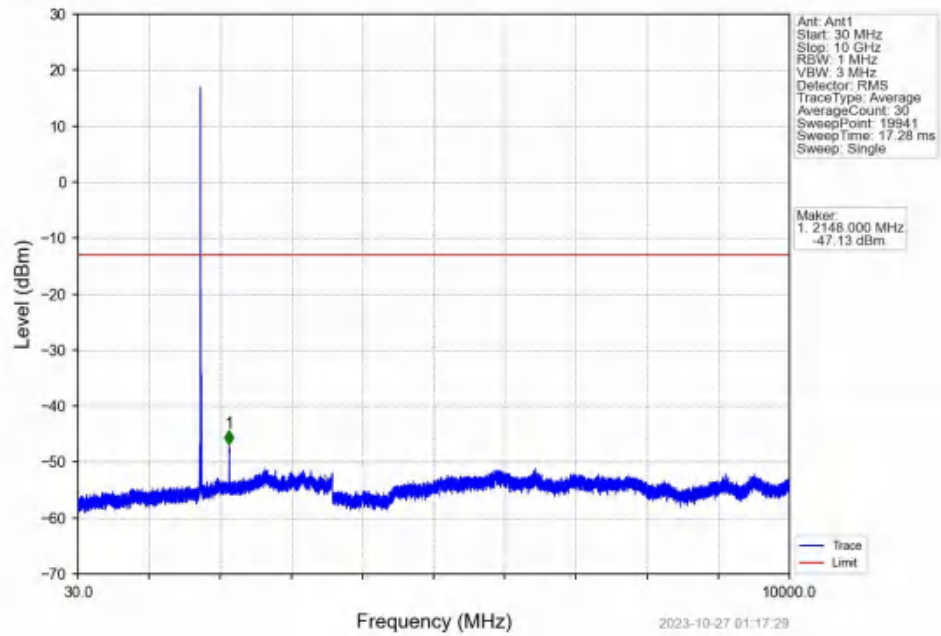
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



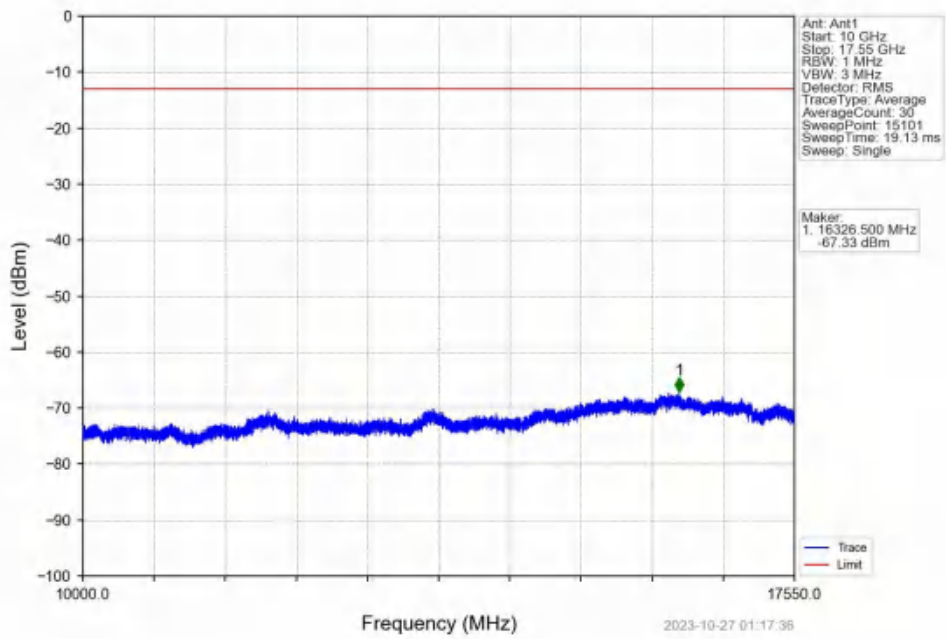
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



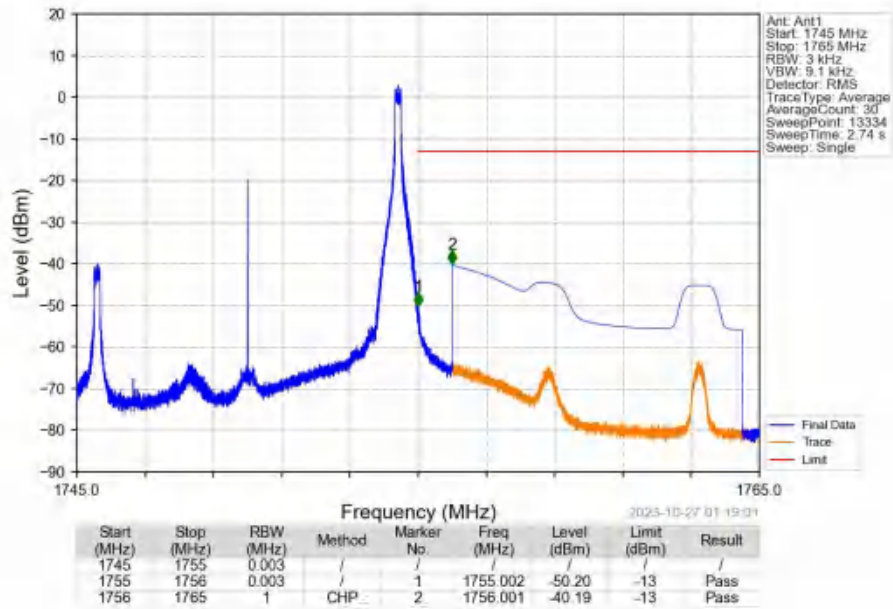
Band4_10MHz_16QAM_HCH_1750MHz_RB_1_0_NTNV



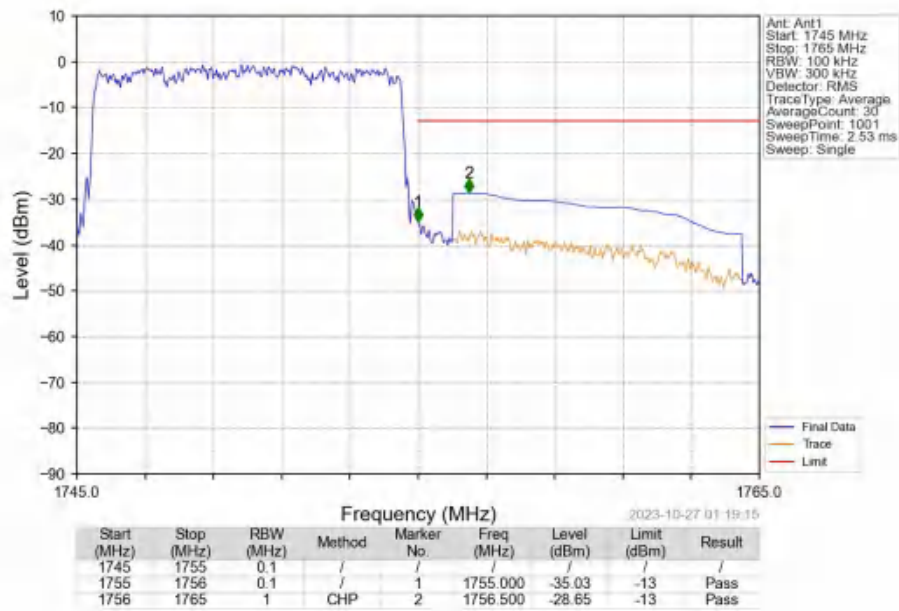
Band4_10MHz_16QAM_HCH_1750MHz_RB_1_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_1_49_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

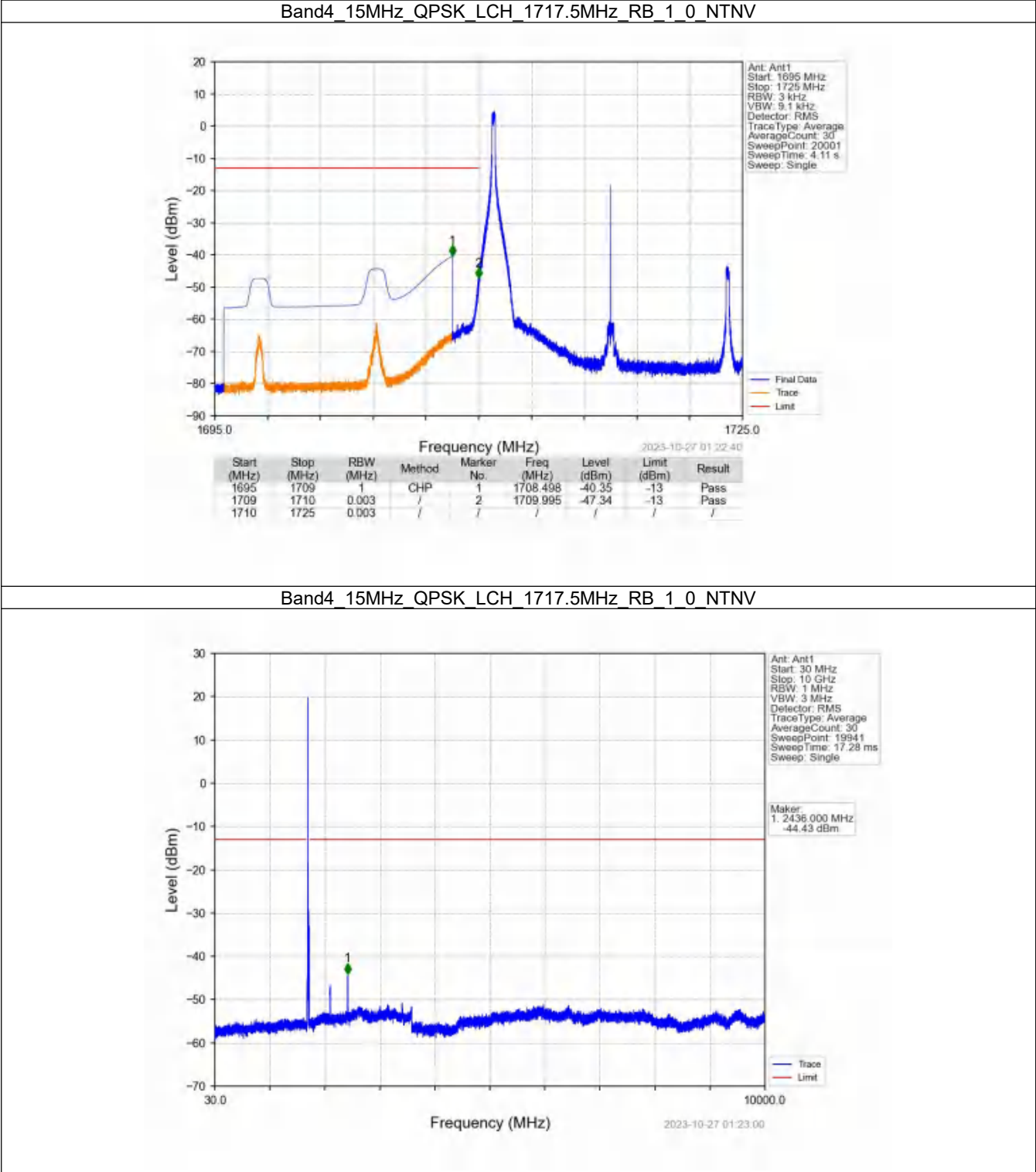


6.5 B4_15MHz

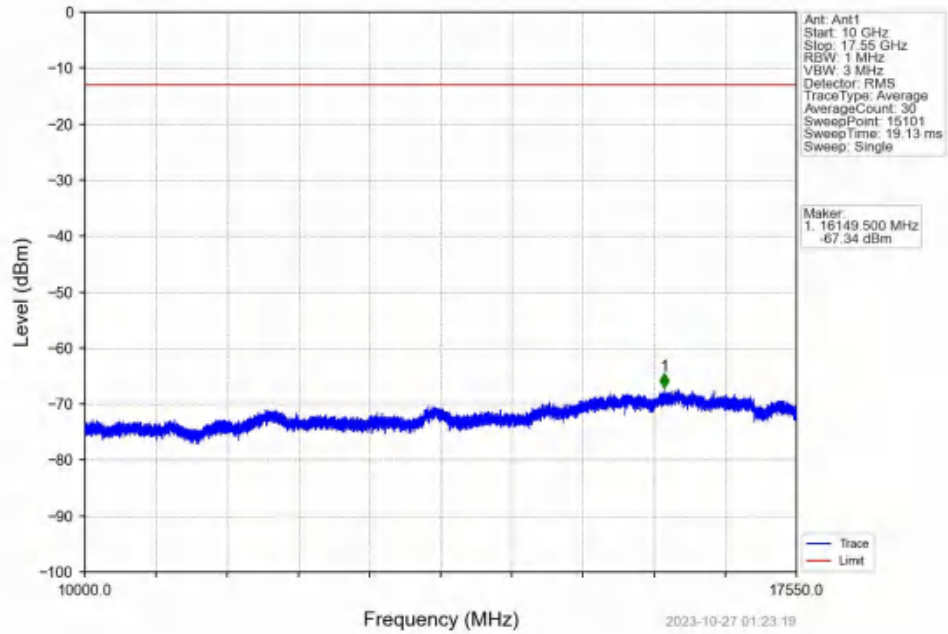
6.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

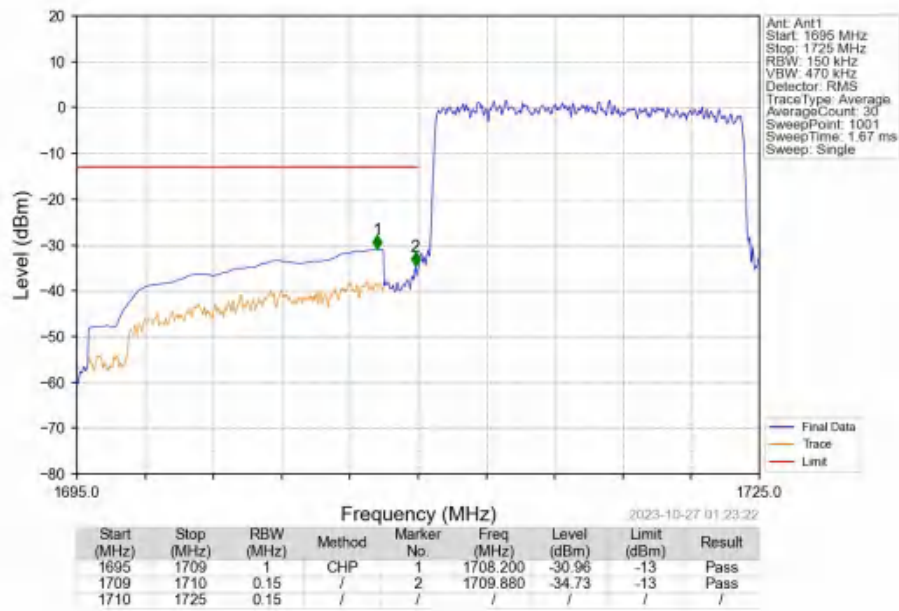
6.5.2 Test Graph



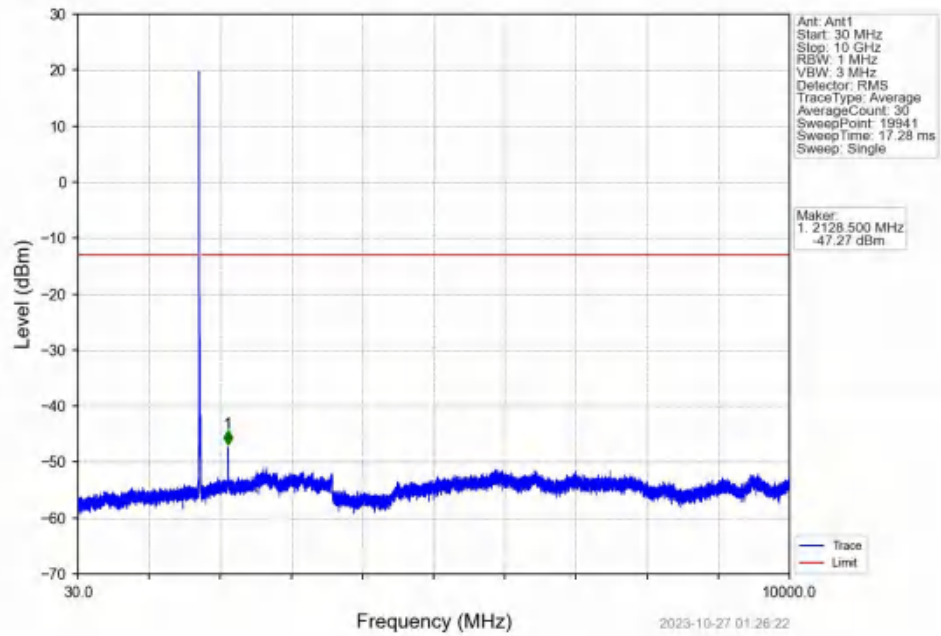
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV



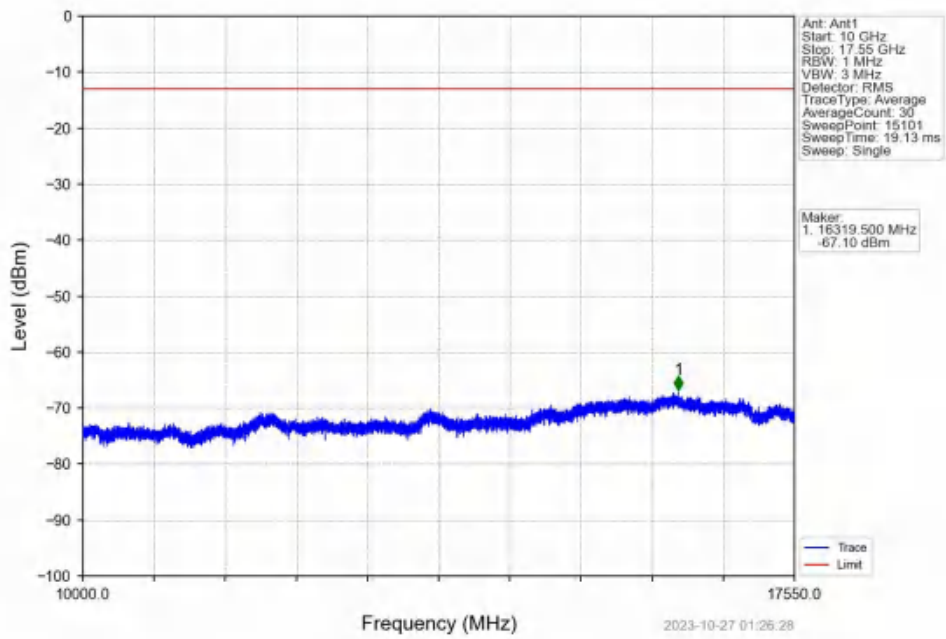
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



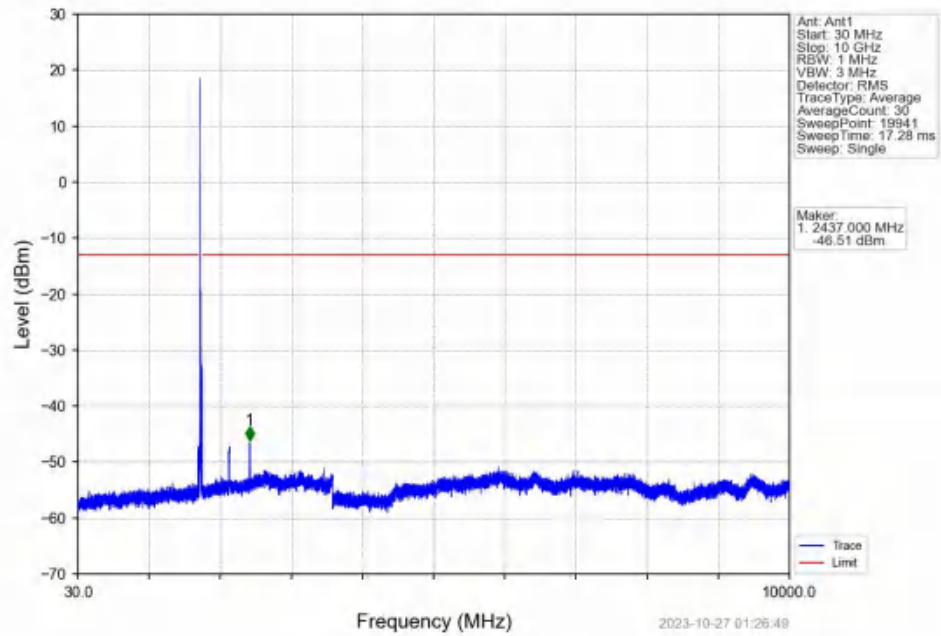
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



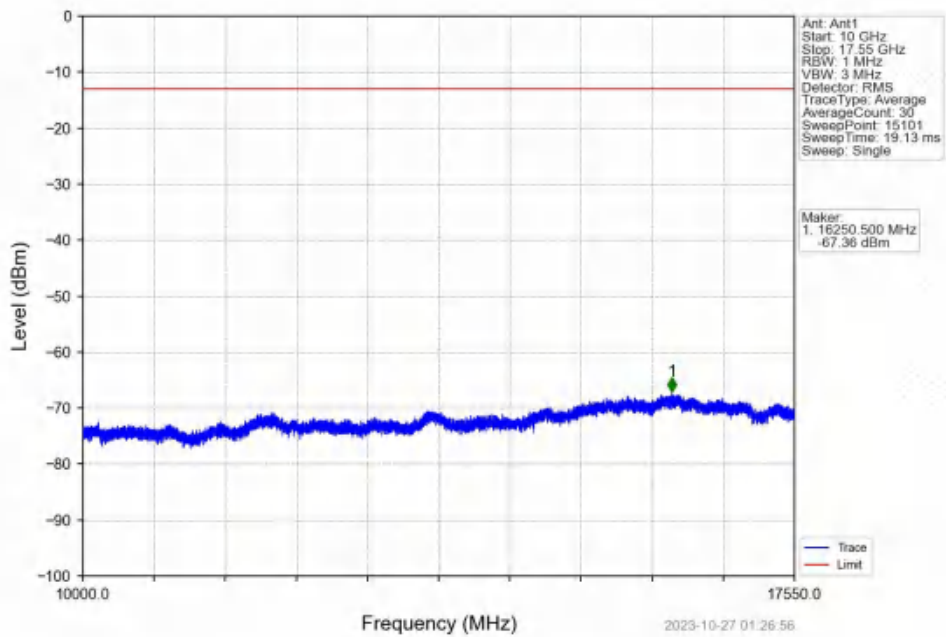
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



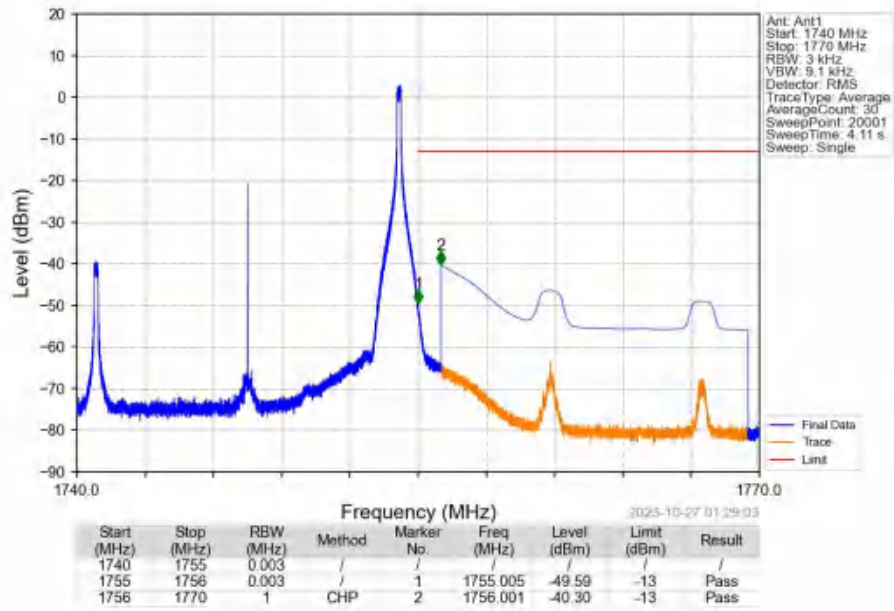
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV



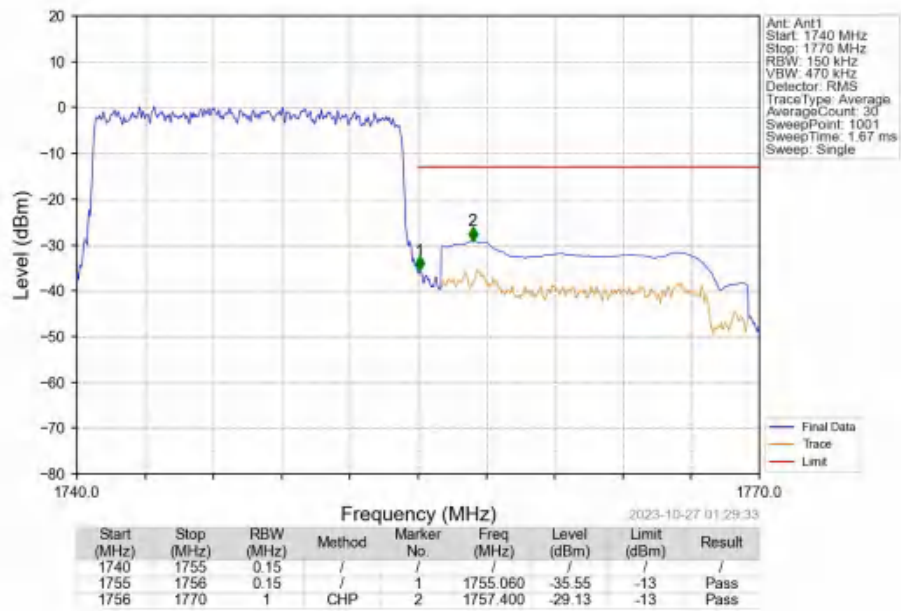
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV



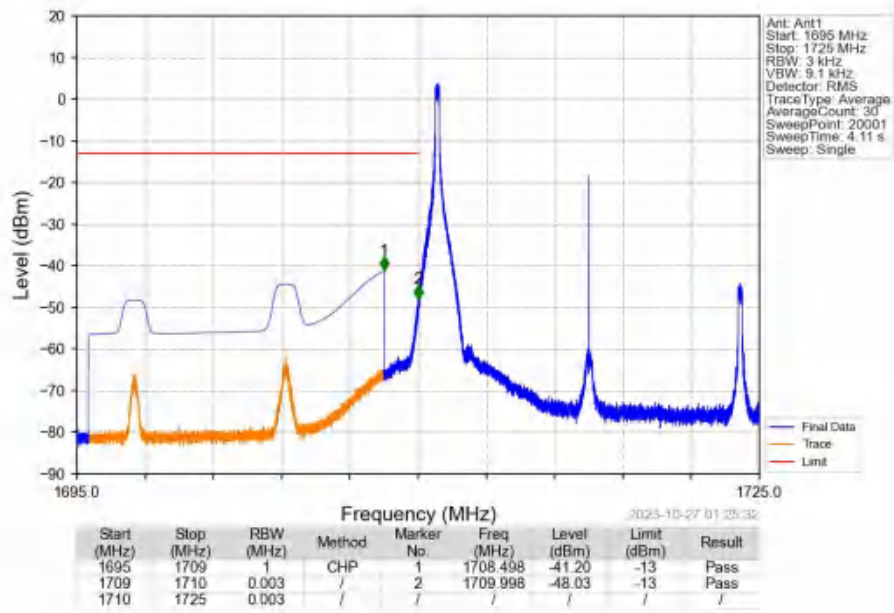
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_74_NTNV



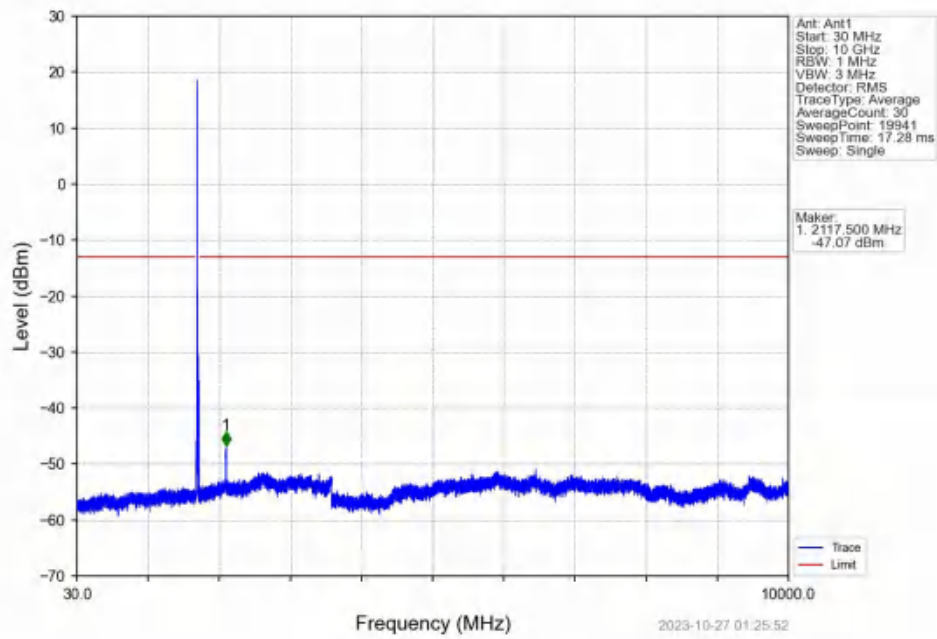
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



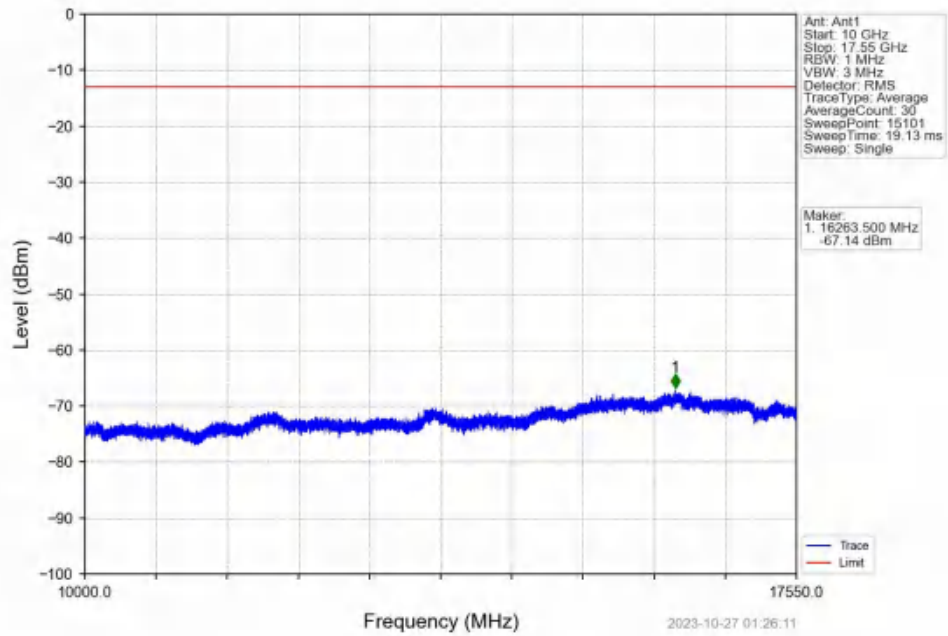
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



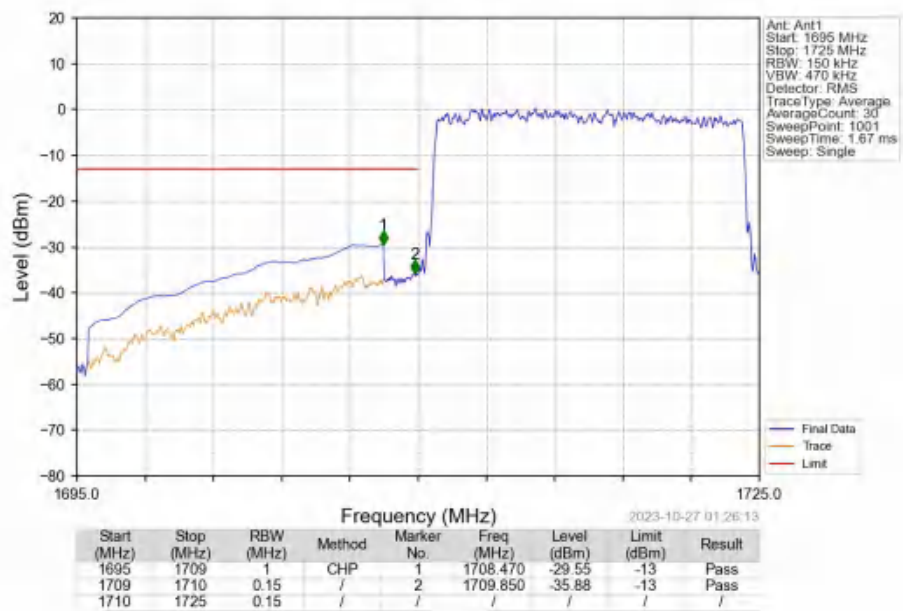
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



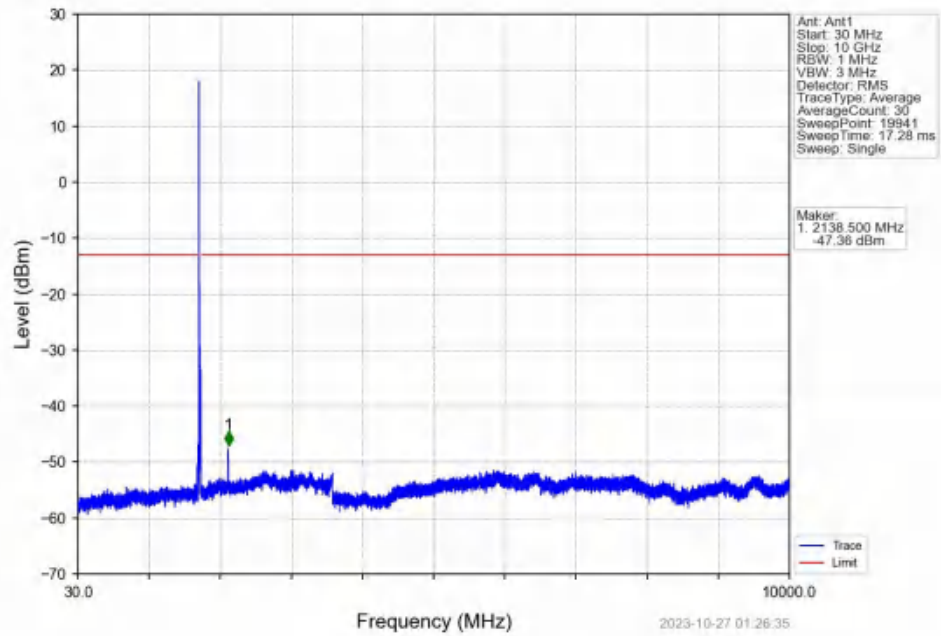
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



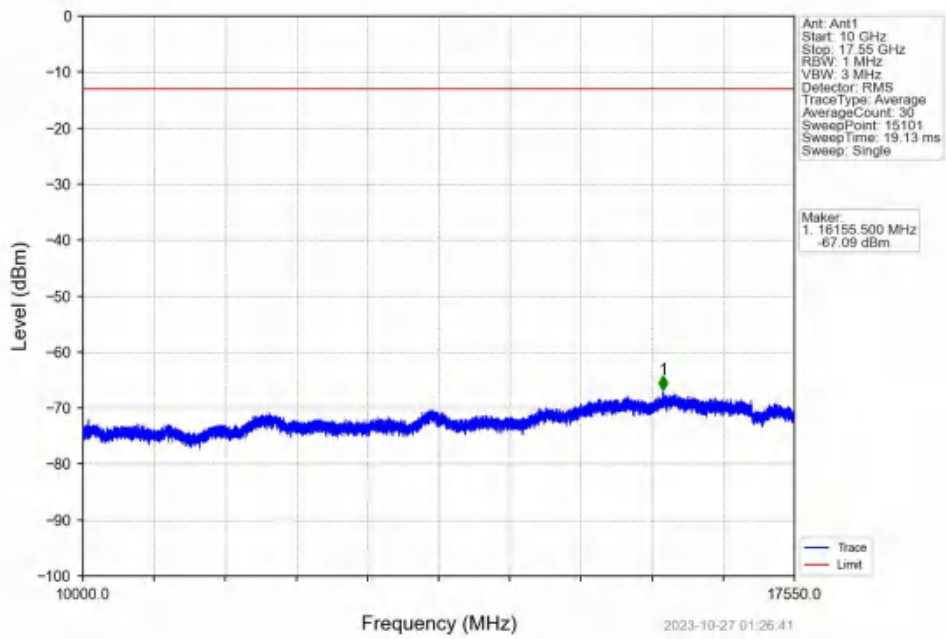
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



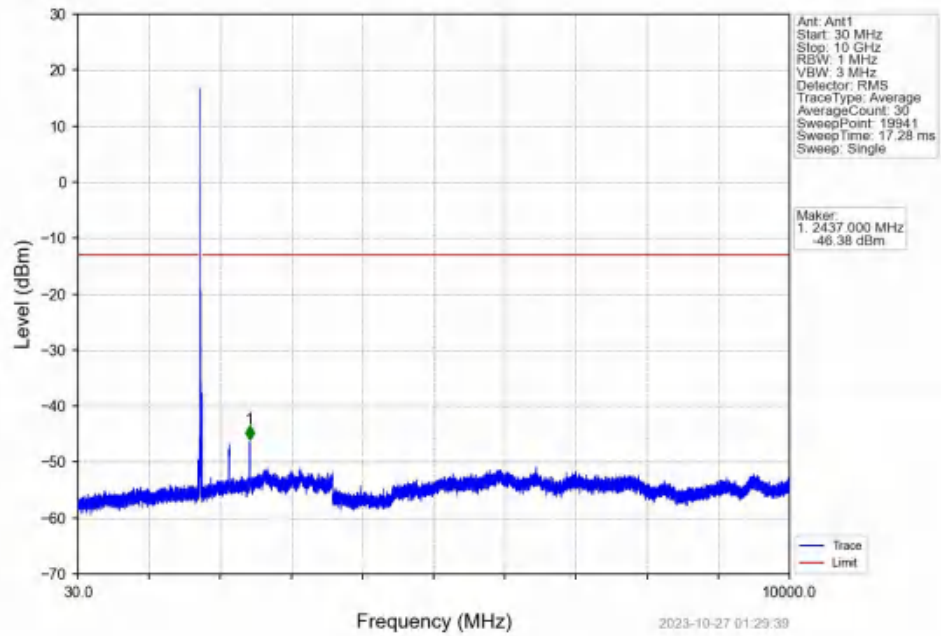
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



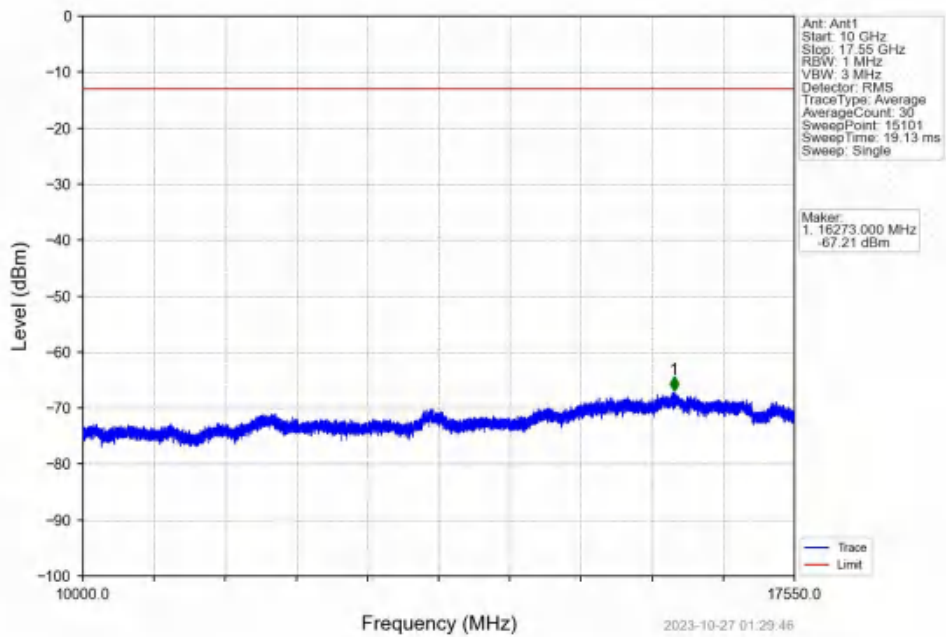
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



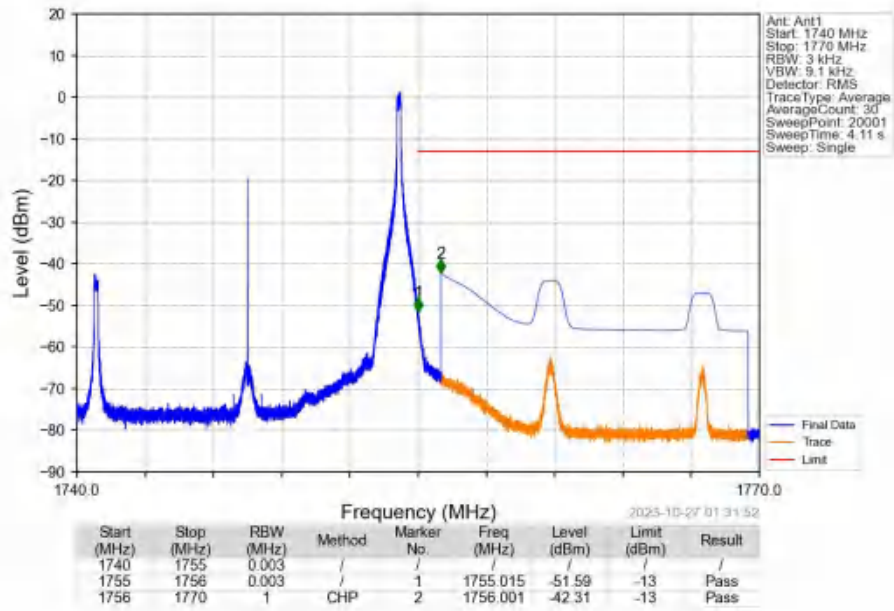
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_0_NTNV



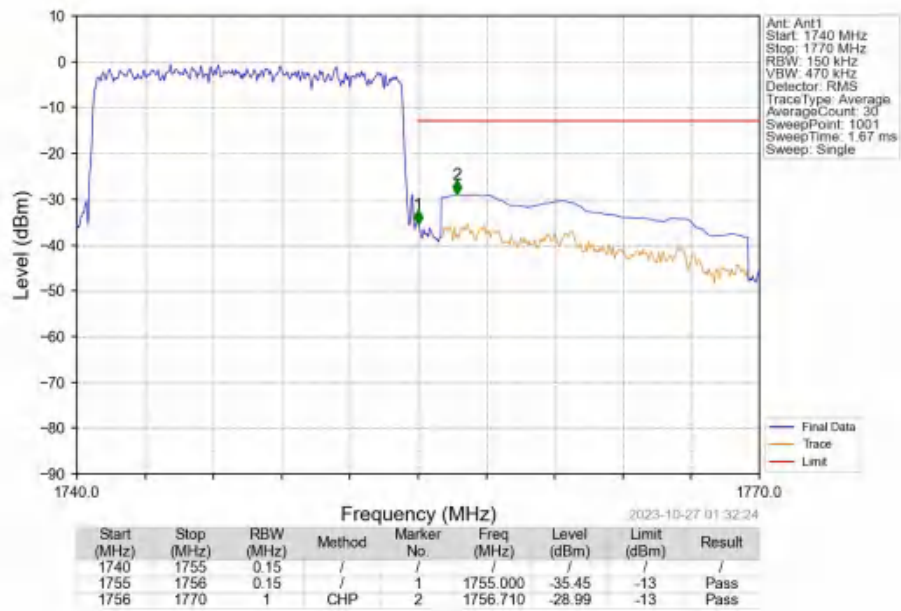
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_74_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

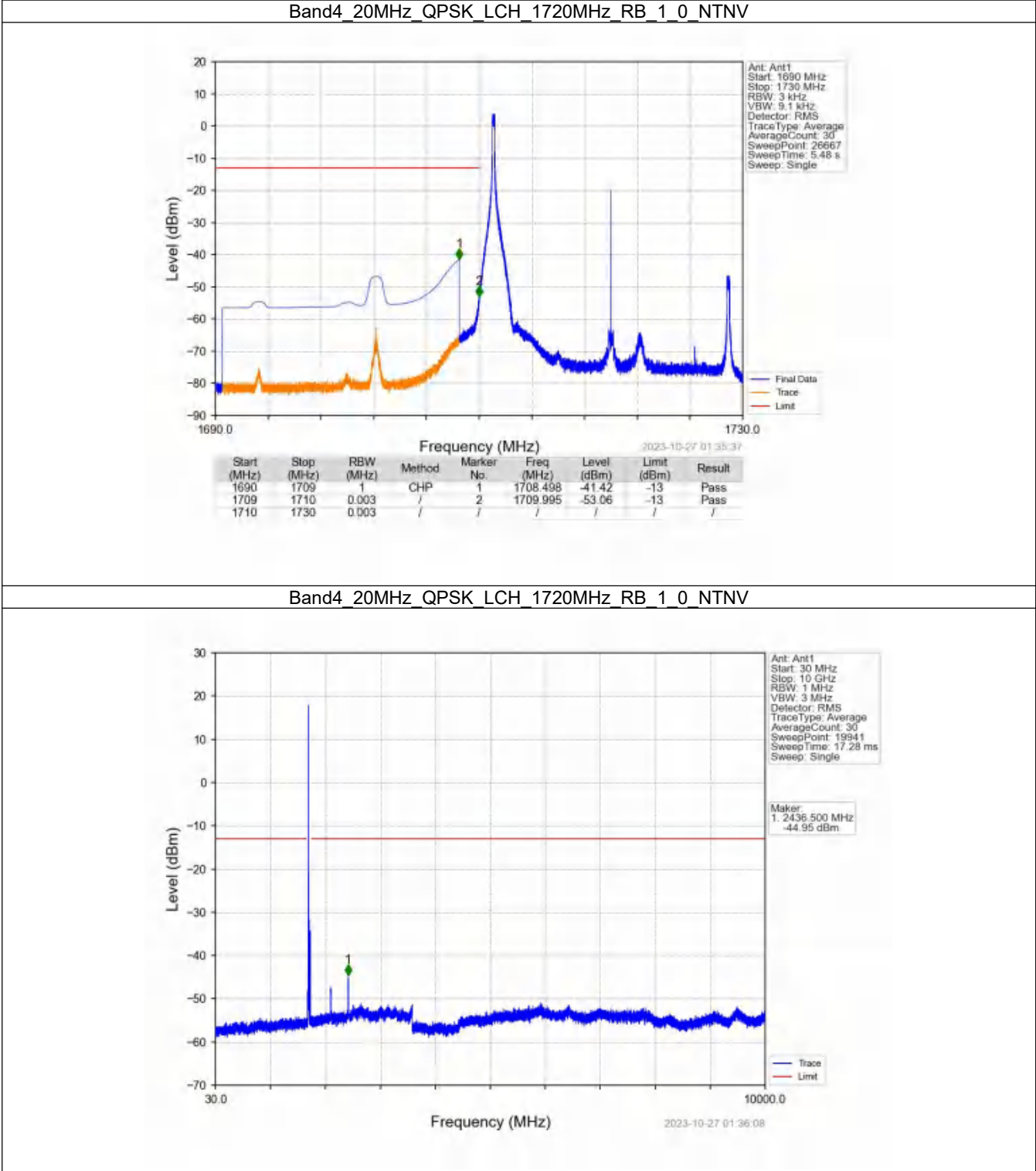


6.6 B4_20MHz

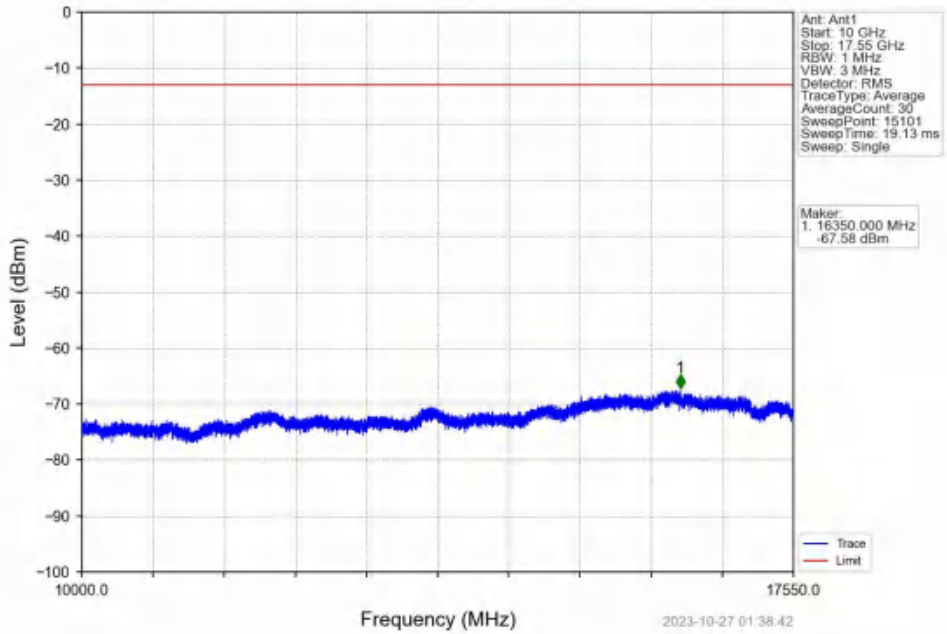
6.6.1 Test Result

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

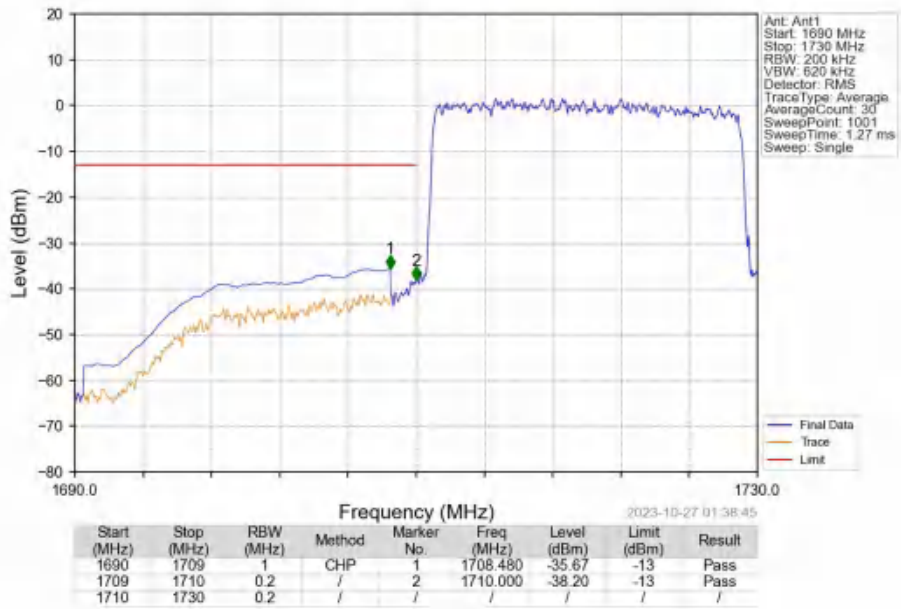
6.6.2 Test Graph



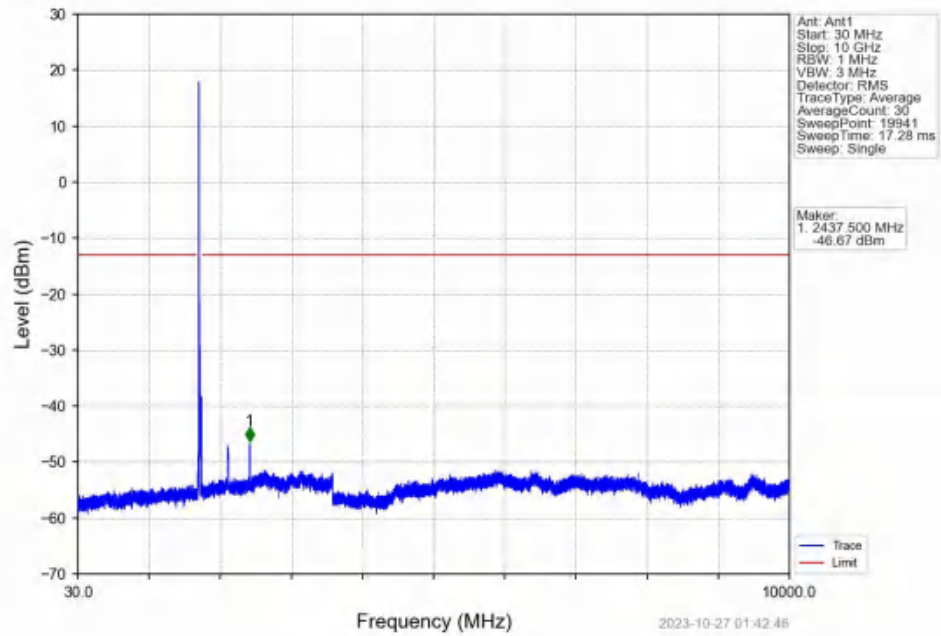
Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV



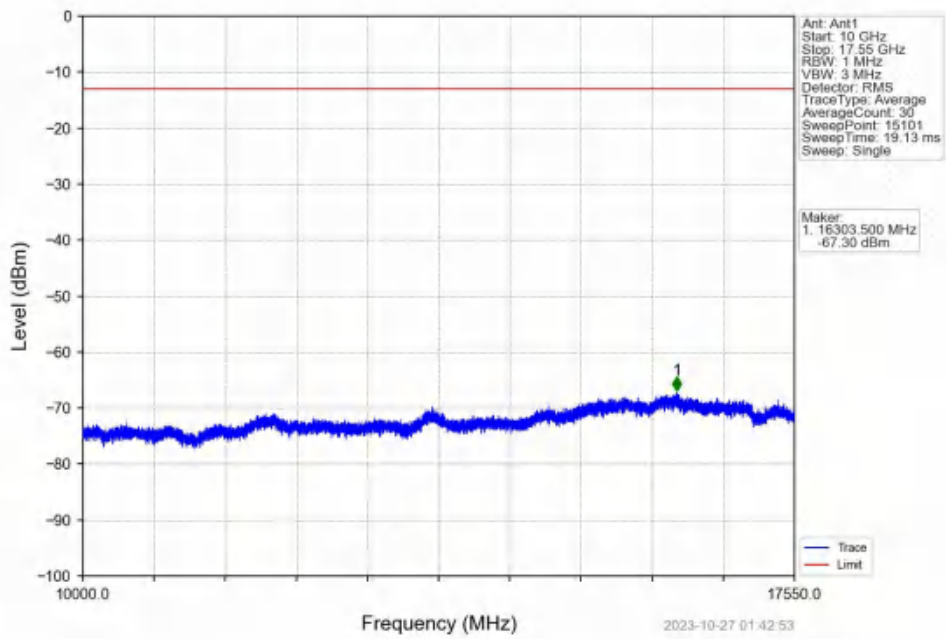
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



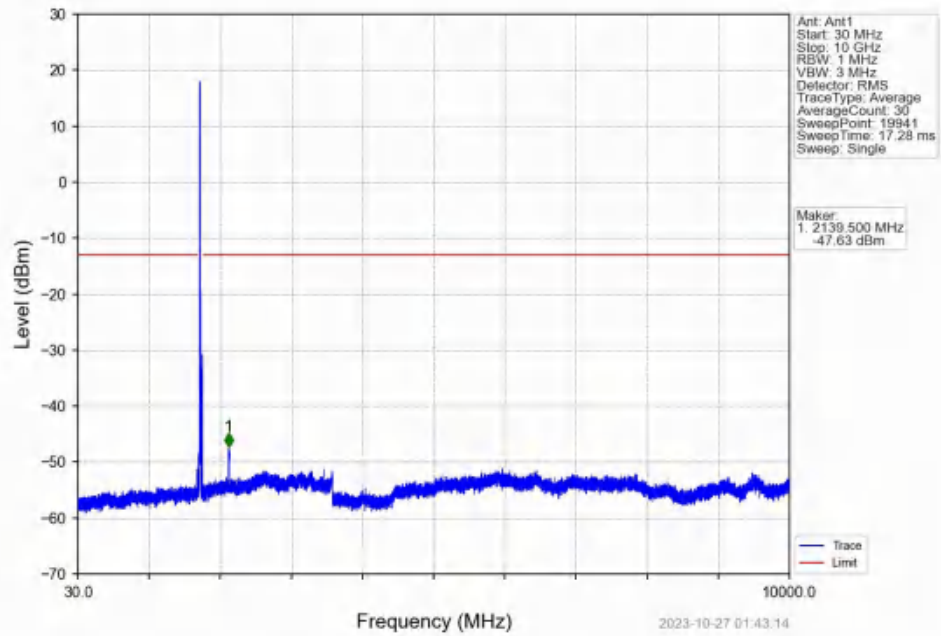
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



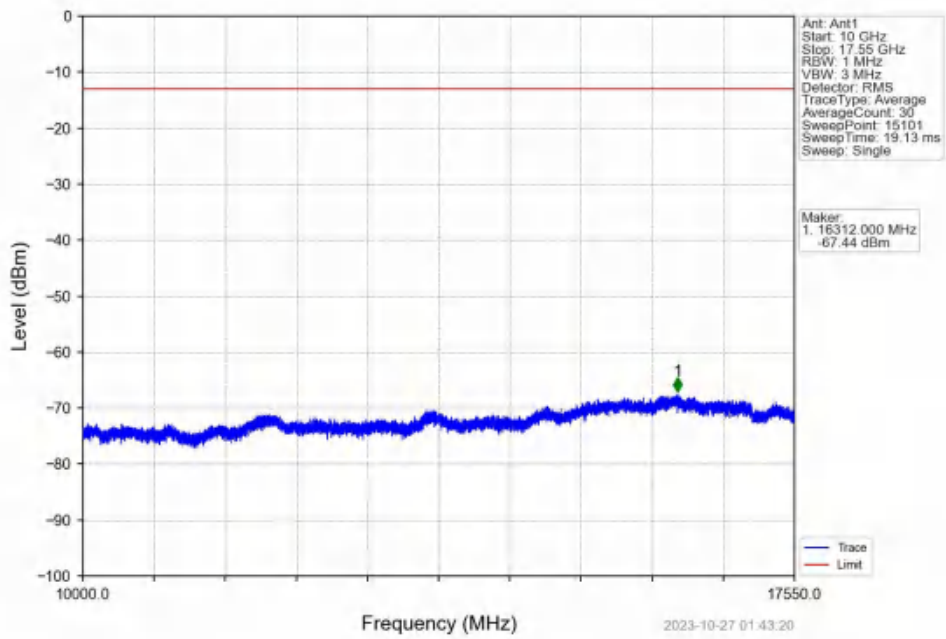
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



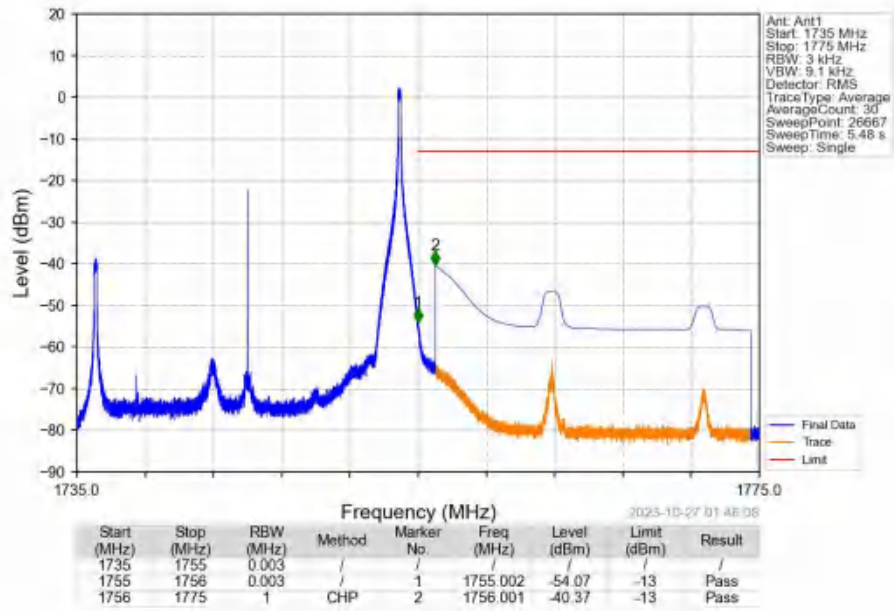
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



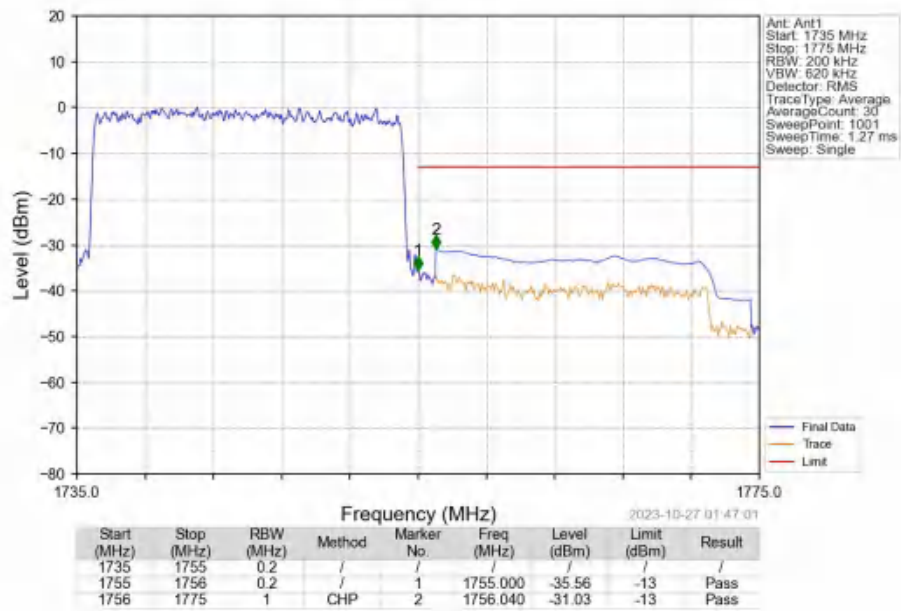
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



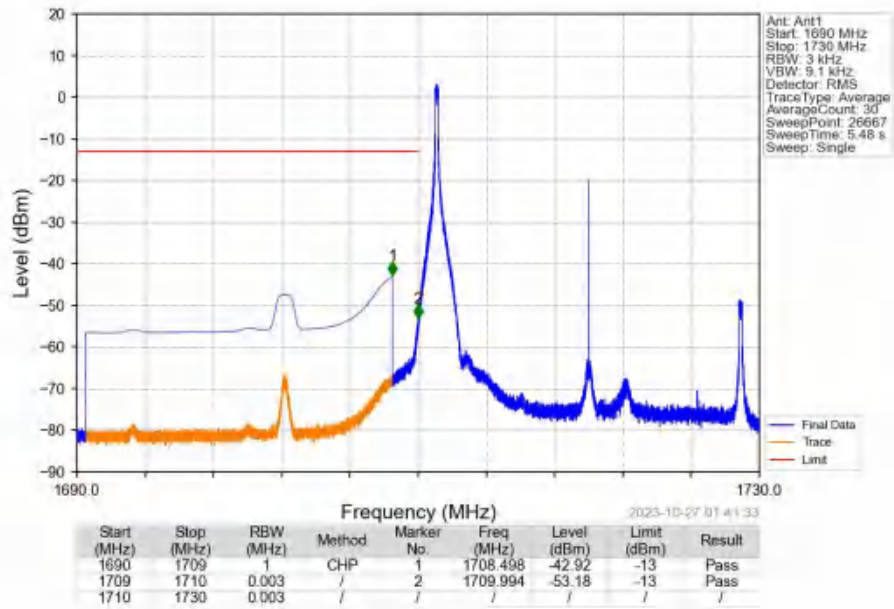
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_99_NTNV



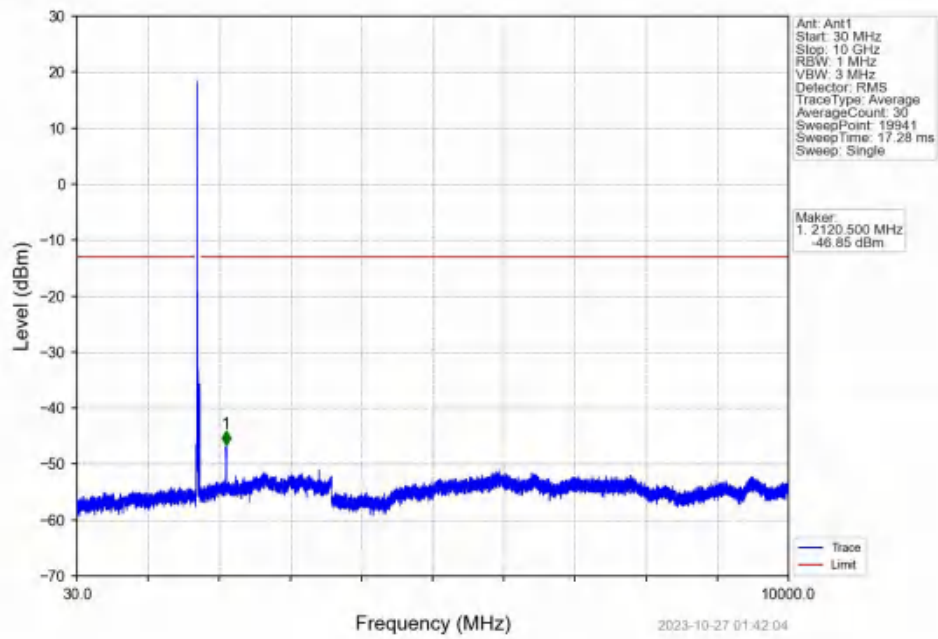
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



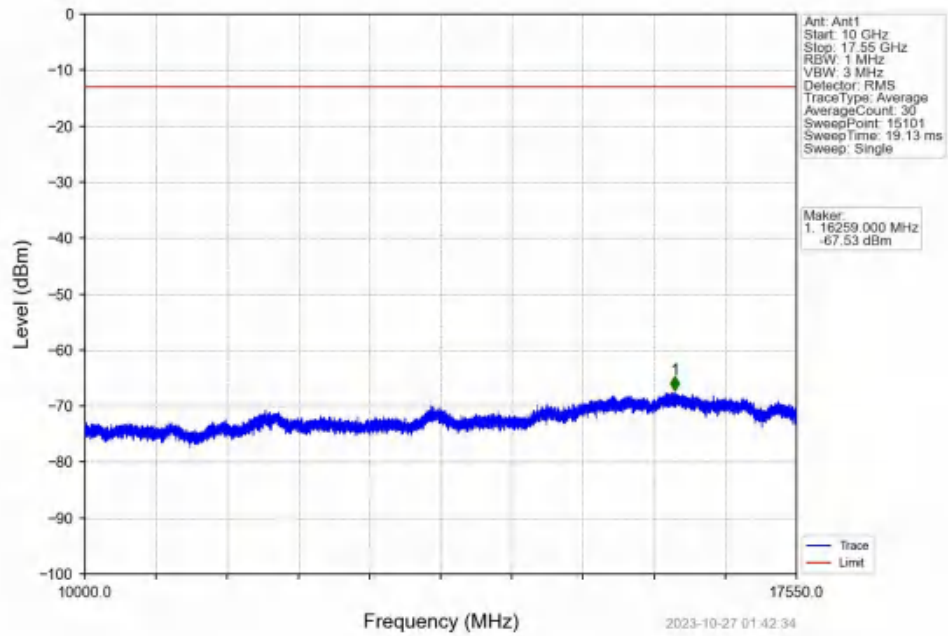
Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



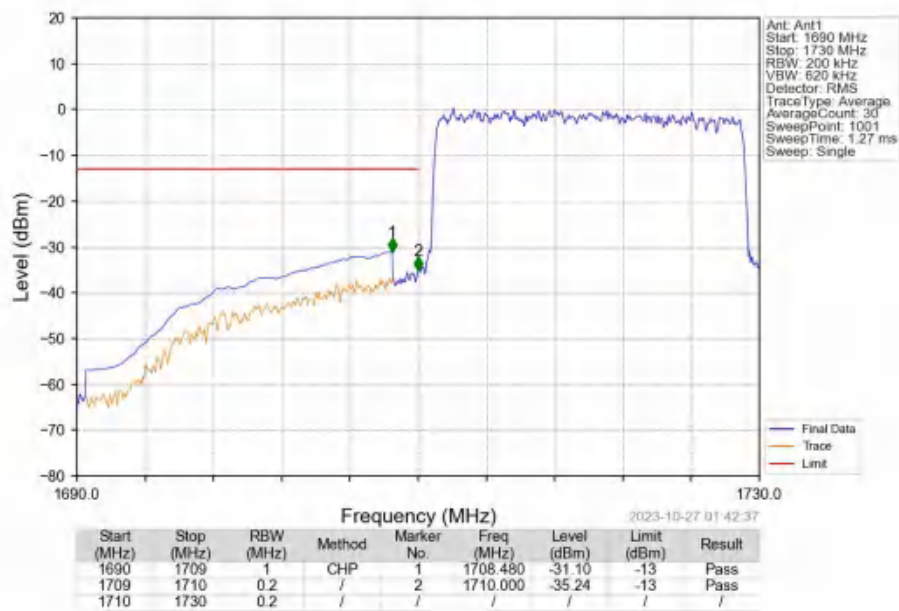
Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



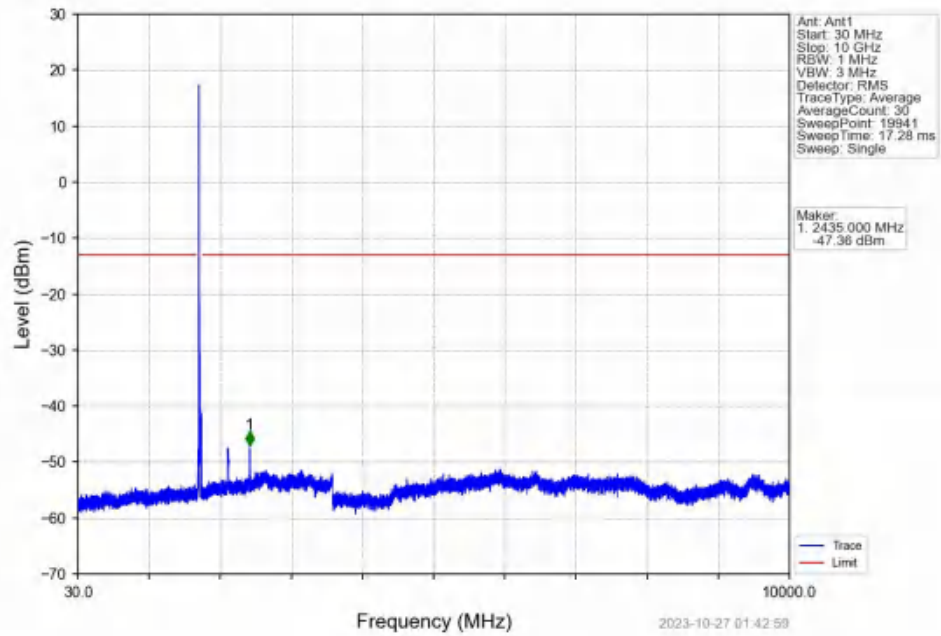
Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



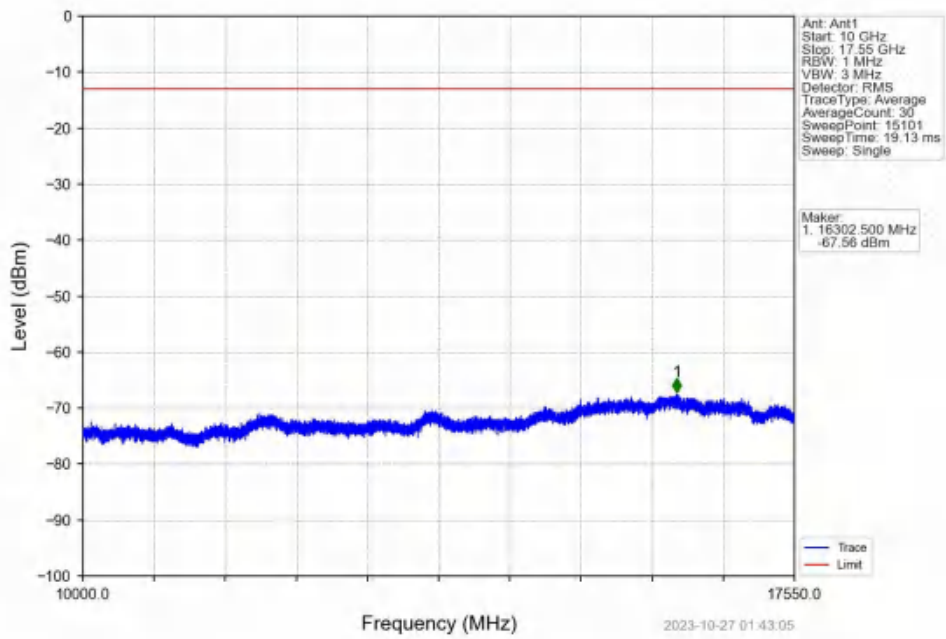
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



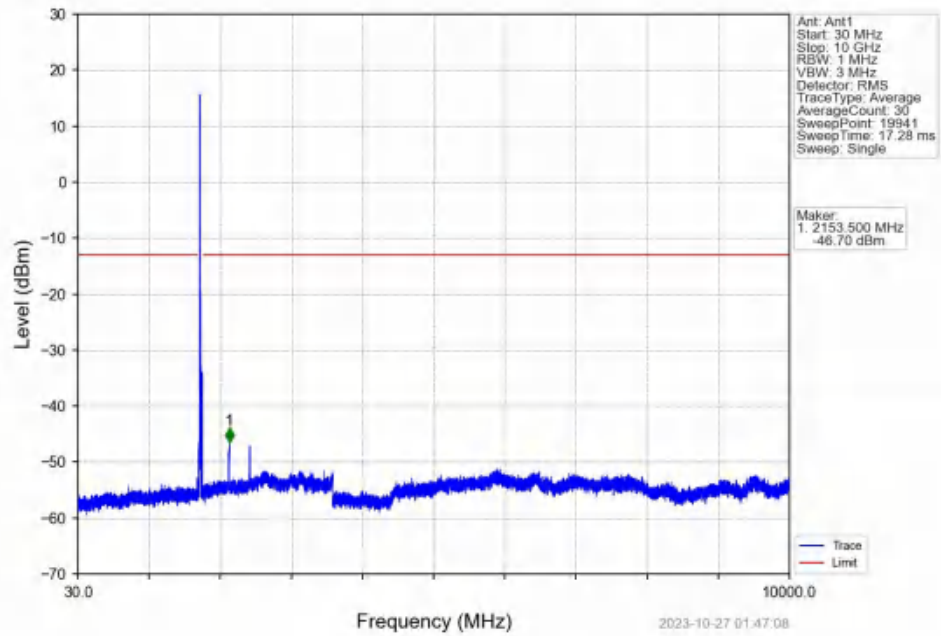
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



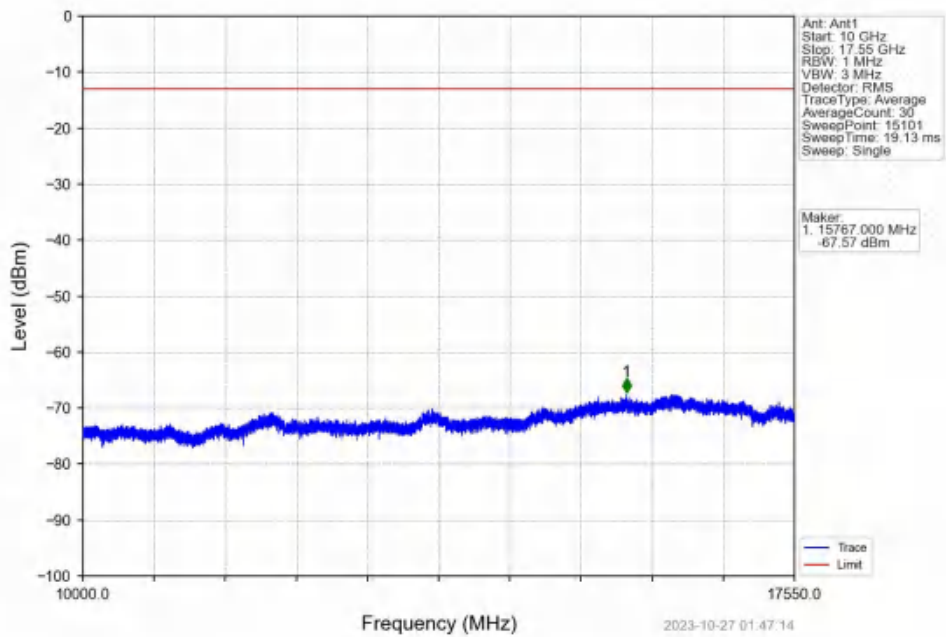
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



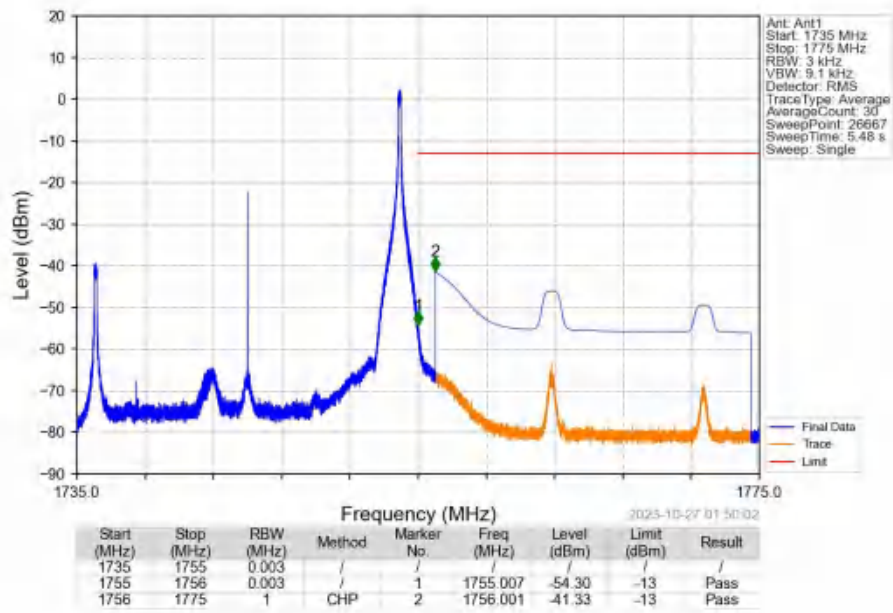
Band4_20MHz_16QAM_HCH_1745MHz_RB_1_0_NTNV



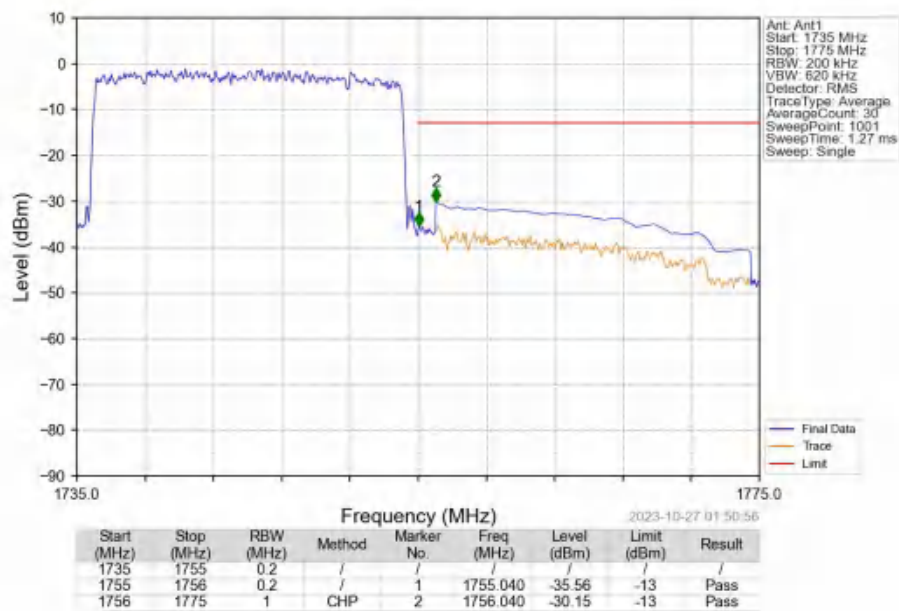
Band4_20MHz_16QAM_HCH_1745MHz_RB_1_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_1_99_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	1.4	1710.7	1754.3	0.1050	0.0026	ppm	1M11G7D	27E	20.21
4	1.4	1710.7	1754.3	0.0851	0.0023	ppm	1M12W7D	27E	19.30
4	3	1711.5	1753.5	0.1104	0.0016	ppm	2M74G7D	27E	20.43
4	3	1711.5	1753.5	0.0935	0.0010	ppm	2M77W7D	27E	19.71
4	5	1712.5	1752.5	0.1079	0.0018	ppm	4M56G7D	27E	20.33
4	5	1712.5	1752.5	0.0847	0.0021	ppm	4M57W7D	27E	19.28
4	10	1715	1750	0.1035	0.0019	ppm	9M05G7D	27E	20.15
4	10	1715	1750	0.0989	0.0019	ppm	9M03W7D	27E	19.95
4	15	1717.5	1747.5	0.1030	0.0009	ppm	13M6G7D	27E	20.13
4	15	1717.5	1747.5	0.1012	0.0008	ppm	13M6W7D	27E	20.05
4	20	1720	1745	0.1038	0.0020	ppm	18M1G7D	27E	20.16
4	20	1720	1745	0.0912	0.0019	ppm	18M1W7D	27E	19.60

7.2 Form731_EIRP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	1.4	1710.7	1754.3	0.1377	0.0026	ppm	1M11G7D	27E	21.39
4	1.4	1710.7	1754.3	0.1117	0.0023	ppm	1M12W7D	27E	20.48
4	3	1711.5	1753.5	0.1449	0.0016	ppm	2M74G7D	27E	21.61
4	3	1711.5	1753.5	0.1227	0.0010	ppm	2M77W7D	27E	20.89
4	5	1712.5	1752.5	0.1416	0.0018	ppm	4M56G7D	27E	21.51
4	5	1712.5	1752.5	0.1112	0.0021	ppm	4M57W7D	27E	20.46
4	10	1715	1750	0.1358	0.0019	ppm	9M05G7D	27E	21.33
4	10	1715	1750	0.1297	0.0019	ppm	9M03W7D	27E	21.13
4	15	1717.5	1747.5	0.1352	0.0009	ppm	13M6G7D	27E	21.31
4	15	1717.5	1747.5	0.1327	0.0008	ppm	13M6W7D	27E	21.23
4	20	1720	1745	0.1361	0.0020	ppm	18M1G7D	27E	21.34
4	20	1720	1745	0.1197	0.0019	ppm	18M1W7D	27E	20.78