

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	22.96	-1.70	19.11	<=34.77	Pass
			2	23.00	-1.70	19.15	<=34.77	Pass
			5	23.00	-1.70	19.15	<=34.77	Pass
		3	0	22.96	-1.70	19.11	<=34.77	Pass
			2	22.95	-1.70	19.10	<=34.77	Pass
			3	22.93	-1.70	19.08	<=34.77	Pass
		6	0	21.96	-1.70	18.11	<=34.77	Pass
	707.5	1	0	22.65	-1.70	18.80	<=34.77	Pass
			2	22.69	-1.70	18.84	<=34.77	Pass
			5	22.65	-1.70	18.80	<=34.77	Pass
		3	0	22.65	-1.70	18.80	<=34.77	Pass
			2	22.69	-1.70	18.84	<=34.77	Pass
			3	22.63	-1.70	18.78	<=34.77	Pass
		6	0	21.65	-1.70	17.80	<=34.77	Pass
	715.3	1	0	22.62	-1.70	18.77	<=34.77	Pass
			2	22.57	-1.70	18.72	<=34.77	Pass
			5	22.60	-1.70	18.75	<=34.77	Pass
		3	0	22.58	-1.70	18.73	<=34.77	Pass
			2	22.53	-1.70	18.68	<=34.77	Pass
			3	22.55	-1.70	18.70	<=34.77	Pass
		6	0	21.56	-1.70	17.71	<=34.77	Pass
16QAM	699.7	1	0	22.14	-1.70	18.29	<=34.77	Pass
			2	22.17	-1.70	18.32	<=34.77	Pass
			5	22.15	-1.70	18.30	<=34.77	Pass
		3	0	22.04	-1.70	18.19	<=34.77	Pass
			2	22.03	-1.70	18.18	<=34.77	Pass
			3	22.03	-1.70	18.18	<=34.77	Pass
		6	0	21.02	-1.70	17.17	<=34.77	Pass
	707.5	1	0	21.82	-1.70	17.97	<=34.77	Pass
			2	21.82	-1.70	17.97	<=34.77	Pass
			5	21.78	-1.70	17.93	<=34.77	Pass
		3	0	21.71	-1.70	17.86	<=34.77	Pass
			2	21.70	-1.70	17.85	<=34.77	Pass
			3	21.65	-1.70	17.80	<=34.77	Pass
		6	0	20.63	-1.70	16.78	<=34.77	Pass
	715.3	1	0	21.75	-1.70	17.90	<=34.77	Pass
			2	21.75	-1.70	17.90	<=34.77	Pass
			5	21.72	-1.70	17.87	<=34.77	Pass
		3	0	21.66	-1.70	17.81	<=34.77	Pass
			2	21.60	-1.70	17.75	<=34.77	Pass
			3	21.65	-1.70	17.80	<=34.77	Pass
		6	0	20.62	-1.70	16.77	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.06	-1.70	19.21	<=34.77	Pass
			7	23.02	-1.70	19.17	<=34.77	Pass
			14	22.93	-1.70	19.08	<=34.77	Pass
		8	0	22.07	-1.70	18.22	<=34.77	Pass
			4	21.97	-1.70	18.12	<=34.77	Pass
			7	21.91	-1.70	18.06	<=34.77	Pass
		15	0	21.94	-1.70	18.09	<=34.77	Pass
	707.5	1	0	22.69	-1.70	18.84	<=34.77	Pass
			7	22.70	-1.70	18.85	<=34.77	Pass
			14	22.61	-1.70	18.76	<=34.77	Pass
		8	0	21.73	-1.70	17.88	<=34.77	Pass
			4	21.72	-1.70	17.87	<=34.77	Pass
			7	21.68	-1.70	17.83	<=34.77	Pass
		15	0	21.70	-1.70	17.85	<=34.77	Pass
	714.5	1	0	22.56	-1.70	18.71	<=34.77	Pass
			7	22.61	-1.70	18.76	<=34.77	Pass
			14	22.47	-1.70	18.62	<=34.77	Pass
		8	0	21.59	-1.70	17.74	<=34.77	Pass
			4	21.60	-1.70	17.75	<=34.77	Pass
			7	21.63	-1.70	17.78	<=34.77	Pass
		15	0	21.60	-1.70	17.75	<=34.77	Pass
16QAM	700.5	1	0	22.14	-1.70	18.29	<=34.77	Pass
			7	22.19	-1.70	18.34	<=34.77	Pass
			14	21.97	-1.70	18.12	<=34.77	Pass
		8	0	21.05	-1.70	17.20	<=34.77	Pass
			4	21.02	-1.70	17.17	<=34.77	Pass
			7	20.93	-1.70	17.08	<=34.77	Pass
		15	0	21.02	-1.70	17.17	<=34.77	Pass
	707.5	1	0	21.85	-1.70	18.00	<=34.77	Pass
			7	21.84	-1.70	17.99	<=34.77	Pass
			14	21.74	-1.70	17.89	<=34.77	Pass
		8	0	20.76	-1.70	16.91	<=34.77	Pass
			4	20.79	-1.70	16.94	<=34.77	Pass
			7	20.70	-1.70	16.85	<=34.77	Pass
		15	0	20.76	-1.70	16.91	<=34.77	Pass
	714.5	1	0	21.64	-1.70	17.79	<=34.77	Pass
			7	21.77	-1.70	17.92	<=34.77	Pass
			14	21.70	-1.70	17.85	<=34.77	Pass
		8	0	20.67	-1.70	16.82	<=34.77	Pass
			4	20.66	-1.70	16.81	<=34.77	Pass
			7	20.67	-1.70	16.82	<=34.77	Pass
		15	0	20.56	-1.70	16.71	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	23.10	-1.70	19.25	<=34.77	Pass
			13	23.00	-1.70	19.15	<=34.77	Pass
			24	22.90	-1.70	19.05	<=34.77	Pass

16QAM	707.5	12	0	22.09	-1.70	18.24	<=34.77	Pass
			6	21.94	-1.70	18.09	<=34.77	Pass
			13	21.90	-1.70	18.05	<=34.77	Pass
		25	0	21.95	-1.70	18.10	<=34.77	Pass
		1	0	22.70	-1.70	18.85	<=34.77	Pass
			13	22.73	-1.70	18.88	<=34.77	Pass
			24	22.68	-1.70	18.83	<=34.77	Pass
		12	0	21.76	-1.70	17.91	<=34.77	Pass
			6	21.73	-1.70	17.88	<=34.77	Pass
			13	21.72	-1.70	17.87	<=34.77	Pass
		25	0	21.74	-1.70	17.89	<=34.77	Pass
	713.5	1	0	22.63	-1.70	18.78	<=34.77	Pass
			13	22.69	-1.70	18.84	<=34.77	Pass
			24	22.58	-1.70	18.73	<=34.77	Pass
		12	0	21.62	-1.70	17.77	<=34.77	Pass
			6	21.63	-1.70	17.78	<=34.77	Pass
			13	21.64	-1.70	17.79	<=34.77	Pass
		25	0	21.61	-1.70	17.76	<=34.77	Pass
	701.5	1	0	22.17	-1.70	18.32	<=34.77	Pass
			13	22.13	-1.70	18.28	<=34.77	Pass
			24	21.93	-1.70	18.08	<=34.77	Pass
		12	0	21.07	-1.70	17.22	<=34.77	Pass
			6	20.95	-1.70	17.10	<=34.77	Pass
			13	20.90	-1.70	17.05	<=34.77	Pass
		25	0	20.93	-1.70	17.08	<=34.77	Pass
	707.5	1	0	21.76	-1.70	17.91	<=34.77	Pass
			13	21.79	-1.70	17.94	<=34.77	Pass
			24	21.71	-1.70	17.86	<=34.77	Pass
		12	0	20.75	-1.70	16.90	<=34.77	Pass
			6	20.74	-1.70	16.89	<=34.77	Pass
			13	20.71	-1.70	16.86	<=34.77	Pass
		25	0	20.73	-1.70	16.88	<=34.77	Pass
	713.5	1	0	21.85	-1.70	18.00	<=34.77	Pass
			13	21.85	-1.70	18.00	<=34.77	Pass
			24	21.78	-1.70	17.93	<=34.77	Pass
		12	0	20.66	-1.70	16.81	<=34.77	Pass
			6	20.64	-1.70	16.79	<=34.77	Pass
			13	20.66	-1.70	16.81	<=34.77	Pass
		25	0	20.62	-1.70	16.77	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	22.96	-1.70	19.11	<=34.77	Pass
			25	22.81	-1.70	18.96	<=34.77	Pass
			49	22.69	-1.70	18.84	<=34.77	Pass
		25	0	21.90	-1.70	18.05	<=34.77	Pass
			13	21.92	-1.70	18.07	<=34.77	Pass
			25	21.74	-1.70	17.89	<=34.77	Pass
	707.5	50	0	21.91	-1.70	18.06	<=34.77	Pass
			0	22.81	-1.70	18.96	<=34.77	Pass
			25	22.69	-1.70	18.84	<=34.77	Pass
		1	49	22.62	-1.70	18.77	<=34.77	Pass
			0	21.74	-1.70	17.89	<=34.77	Pass
			0	21.74	-1.70	17.89	<=34.77	Pass

16QAM	711	50	13	21.77	-1.70	17.92	<=34.77	Pass
			25	21.69	-1.70	17.84	<=34.77	Pass
			0	21.80	-1.70	17.95	<=34.77	Pass
		1	0	22.73	-1.70	18.88	<=34.77	Pass
			25	22.72	-1.70	18.87	<=34.77	Pass
			49	22.54	-1.70	18.69	<=34.77	Pass
		25	0	21.68	-1.70	17.83	<=34.77	Pass
			13	21.67	-1.70	17.82	<=34.77	Pass
			25	21.68	-1.70	17.83	<=34.77	Pass
		50	0	21.73	-1.70	17.88	<=34.77	Pass
	704	1	0	22.09	-1.70	18.24	<=34.77	Pass
			25	21.92	-1.70	18.07	<=34.77	Pass
			49	21.74	-1.70	17.89	<=34.77	Pass
		12	0	21.96	-1.70	18.11	<=34.77	Pass
			19	21.83	-1.70	17.98	<=34.77	Pass
			38	21.71	-1.70	17.86	<=34.77	Pass
		27	0	20.97	-1.70	17.12	<=34.77	Pass
	707.5	1	0	21.90	-1.70	18.05	<=34.77	Pass
			25	21.75	-1.70	17.90	<=34.77	Pass
			49	21.70	-1.70	17.85	<=34.77	Pass
		12	0	21.83	-1.70	17.98	<=34.77	Pass
			19	21.72	-1.70	17.87	<=34.77	Pass
			38	21.67	-1.70	17.82	<=34.77	Pass
		27	0	20.79	-1.70	16.94	<=34.77	Pass
	711	1	0	21.77	-1.70	17.92	<=34.77	Pass
			25	21.76	-1.70	17.91	<=34.77	Pass
			49	21.62	-1.70	17.77	<=34.77	Pass
		12	0	21.59	-1.70	17.74	<=34.77	Pass
			19	21.62	-1.70	17.77	<=34.77	Pass
			38	21.62	-1.70	17.77	<=34.77	Pass
		27	23	20.74	-1.70	16.89	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B12_1.4MHz

Band: 12 / 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	699.7	6	0	20	3.27	-19.326	-0.0276	-2.5 to 2.5	Pass
					3.85	-8.726	-0.0125	-2.5 to 2.5	Pass
					4.43	-3.276	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-0.386	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	0.343	0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				30	3.85	-1.559	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-0.386	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	3.304	0.0047	-2.5 to 2.5	Pass
					3.85	0.300	0.0004	-2.5 to 2.5	Pass
					4.43	0.758	0.0011	-2.5 to 2.5	Pass

				-30	3.85	-1.588	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	0.386	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				0	3.85	5.565	0.0079	-2.5 to 2.5	Pass
				10	3.85	1.588	0.0022	-2.5 to 2.5	Pass
				30	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-13.890	-0.0194	-2.5 to 2.5	Pass
					3.85	-19.598	-0.0274	-2.5 to 2.5	Pass
					4.43	-8.011	-0.0112	-2.5 to 2.5	Pass
				-30	3.85	-3.276	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	-2.432	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-1.488	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				50	3.85	0.286	0.0004	-2.5 to 2.5	Pass
				16QAM	699.7	6	0	20	3.27
3.85	-0.286	-0.0004	-2.5 to 2.5						Pass
4.43	0.186	0.0003	-2.5 to 2.5						Pass
-30	3.85	-0.272	-0.0004					-2.5 to 2.5	Pass
-20	3.85	-0.215	-0.0003					-2.5 to 2.5	Pass
-10	3.85	-0.215	-0.0003					-2.5 to 2.5	Pass
0	3.85	-0.601	-0.0009					-2.5 to 2.5	Pass
10	3.85	-0.515	-0.0007					-2.5 to 2.5	Pass
30	3.85	-0.343	-0.0005					-2.5 to 2.5	Pass
40	3.85	-0.658	-0.0009					-2.5 to 2.5	Pass
50	3.85	0.472	0.0007		-2.5 to 2.5	Pass			
707.5	6	0	20		3.27	-0.815	-0.0012	-2.5 to 2.5	Pass
					3.85	0.114	0.0002	-2.5 to 2.5	Pass
					4.43	-0.343	-0.0005	-2.5 to 2.5	Pass
			-30		3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
			-20		3.85	-0.873	-0.0012	-2.5 to 2.5	Pass
			-10		3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
			0		3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
			10		3.85	-0.973	-0.0014	-2.5 to 2.5	Pass
			30		3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
			40	3.85	-1.073	-0.0015	-2.5 to 2.5	Pass	
50	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass				
715.3	6	0	20	3.27	-0.987	-0.0014	-2.5 to 2.5	Pass	
				3.85	0.000	0.0000	-2.5 to 2.5	Pass	
				4.43	-1.287	-0.0018	-2.5 to 2.5	Pass	
			-30	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass	
			-20	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass	
			-10	3.85	0.572	0.0008	-2.5 to 2.5	Pass	
			0	3.85	0.372	0.0005	-2.5 to 2.5	Pass	
			10	3.85	0.558	0.0008	-2.5 to 2.5	Pass	
			30	3.85	0.286	0.0004	-2.5 to 2.5	Pass	
			40	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass	
50	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass				

2.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz							
Modulation	Frequency	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict

	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	
QPSK	700.5	15	0	20	3.27	1.302	0.0019	-2.5 to 2.5	Pass
					3.85	1.574	0.0022	-2.5 to 2.5	Pass
					4.43	1.802	0.0026	-2.5 to 2.5	Pass
				-30	3.85	1.774	0.0025	-2.5 to 2.5	Pass
				-20	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				-10	3.85	0.458	0.0007	-2.5 to 2.5	Pass
				0	3.85	1.030	0.0015	-2.5 to 2.5	Pass
				10	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				30	3.85	0.844	0.0012	-2.5 to 2.5	Pass
				40	3.85	0.486	0.0007	-2.5 to 2.5	Pass
				50	3.85	0.415	0.0006	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	0.429	0.0006	-2.5 to 2.5	Pass
					3.85	1.101	0.0016	-2.5 to 2.5	Pass
					4.43	-0.229	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.143	0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.701	0.0010	-2.5 to 2.5	Pass
				0	3.85	-0.458	-0.0006	-2.5 to 2.5	Pass
				10	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				30	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				40	3.85	0.243	0.0003	-2.5 to 2.5	Pass
				50	3.85	0.386	0.0005	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	0.358	0.0005	-2.5 to 2.5	Pass
					3.85	0.372	0.0005	-2.5 to 2.5	Pass
					4.43	-0.286	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.443	0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.386	0.0005	-2.5 to 2.5	Pass
				0	3.85	0.286	0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				30	3.85	0.286	0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-0.043	-0.0001	-2.5 to 2.5	Pass
					3.85	0.587	0.0008	-2.5 to 2.5	Pass
					4.43	0.501	0.0007	-2.5 to 2.5	Pass
				-30	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	0.386	0.0006	-2.5 to 2.5	Pass
				-10	3.85	0.343	0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				10	3.85	0.601	0.0009	-2.5 to 2.5	Pass
				30	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				40	3.85	1.402	0.0020	-2.5 to 2.5	Pass
				50	3.85	0.072	0.0001	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	0.515	0.0007	-2.5 to 2.5	Pass
					3.85	0.300	0.0004	-2.5 to 2.5	Pass
					4.43	0.043	0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.072	0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.615	0.0009	-2.5 to 2.5	Pass
				-10	3.85	0.329	0.0005	-2.5 to 2.5	Pass
				0	3.85	0.944	0.0013	-2.5 to 2.5	Pass
				10	3.85	0.472	0.0007	-2.5 to 2.5	Pass
				30	3.85	0.644	0.0009	-2.5 to 2.5	Pass
				40	3.85	1.044	0.0015	-2.5 to 2.5	Pass
				50	3.85	1.645	0.0023	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	0.358	0.0005	-2.5 to 2.5	Pass
					3.85	0.401	0.0006	-2.5 to 2.5	Pass
					4.43	0.315	0.0004	-2.5 to 2.5	Pass

				-30	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.215	0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.343	0.0005	-2.5 to 2.5	Pass
				0	3.85	0.901	0.0013	-2.5 to 2.5	Pass
				10	3.85	0.472	0.0007	-2.5 to 2.5	Pass
				30	3.85	1.273	0.0018	-2.5 to 2.5	Pass
				40	3.85	0.730	0.0010	-2.5 to 2.5	Pass
				50	3.85	0.973	0.0014	-2.5 to 2.5	Pass

2.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.27	-0.672	-0.0010	-2.5 to 2.5	Pass
					3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
					4.43	-1.044	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-0.958	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-1.016	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-0.458	-0.0006	-2.5 to 2.5	Pass
					3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
					4.43	0.343	0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.257	0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.815	0.0012	-2.5 to 2.5	Pass
				0	3.85	0.143	0.0002	-2.5 to 2.5	Pass
				10	3.85	1.745	0.0025	-2.5 to 2.5	Pass
				30	3.85	1.287	0.0018	-2.5 to 2.5	Pass
				40	3.85	1.817	0.0026	-2.5 to 2.5	Pass
				50	3.85	1.774	0.0025	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-0.615	-0.0009	-2.5 to 2.5	Pass
					3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
					4.43	-0.815	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				0	3.85	0.515	0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				30	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				40	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-1.159	-0.0017	-2.5 to 2.5	Pass
					3.85	-0.587	-0.0008	-2.5 to 2.5	Pass
					4.43	-1.287	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-1.173	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-1.116	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-0.601	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass

	707.5	25	0	50	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				20	3.27	0.515	0.0007	-2.5 to 2.5	Pass
					3.85	0.715	0.0010	-2.5 to 2.5	Pass
					4.43	0.043	0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.558	0.0008	-2.5 to 2.5	Pass
				-20	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.587	0.0008	-2.5 to 2.5	Pass
				0	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
	713.5	25	0	40	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
				20	3.27	0.215	0.0003	-2.5 to 2.5	Pass
					3.85	1.302	0.0018	-2.5 to 2.5	Pass
					4.43	1.531	0.0021	-2.5 to 2.5	Pass
				-30	3.85	-1.631	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-1.488	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass

2.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	3.27	-1.302	-0.0018	-2.5 to 2.5	Pass
					3.85	-1.659	-0.0024	-2.5 to 2.5	Pass
					4.43	-1.159	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-1.502	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-1.516	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-0.730	-0.0010	-2.5 to 2.5	Pass
	707.5	50	0	50	3.85	-1.645	-0.0023	-2.5 to 2.5	Pass
				20	3.27	-1.302	-0.0018	-2.5 to 2.5	Pass
					3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
					4.43	-0.873	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-0.601	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-2.003	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-1.645	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-1.802	-0.0025	-2.5 to 2.5	Pass
	711	50	0	40	3.85	-2.074	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-1.960	-0.0028	-2.5 to 2.5	Pass
				20	3.27	-0.930	-0.0013	-2.5 to 2.5	Pass
					3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
					4.43	-0.944	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.601	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-1.473	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-1.101	-0.0015	-2.5 to 2.5	Pass

16QAM				0	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.101	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				50	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
	704	27	0	20	3.27	-1.001	-0.0014	-2.5 to 2.5	Pass
					3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
					4.43	-1.302	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-1.316	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-1.845	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-0.672	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-0.744	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-1.559	-0.0022	-2.5 to 2.5	Pass
	707.5	27	0	20	3.27	-1.431	-0.0020	-2.5 to 2.5	Pass
					3.85	-1.402	-0.0020	-2.5 to 2.5	Pass
					4.43	-0.730	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-1.845	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-0.730	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-1.688	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-1.545	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-1.960	-0.0028	-2.5 to 2.5	Pass
				50	3.85	-0.672	-0.0009	-2.5 to 2.5	Pass
	711	27	23	20	3.27	-0.372	-0.0005	-2.5 to 2.5	Pass
					3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
					4.43	-0.443	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.601	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-0.887	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-0.601	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	6	0	Refer To Test Graph		Pass
16QAM	707.5	6	0	Refer To Test Graph		Pass

3.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV					
Modulation	Frequency	RB Allocation		Modulation Characteristics	Verdict

	(MHz)	Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.1.3 B12_5MHz

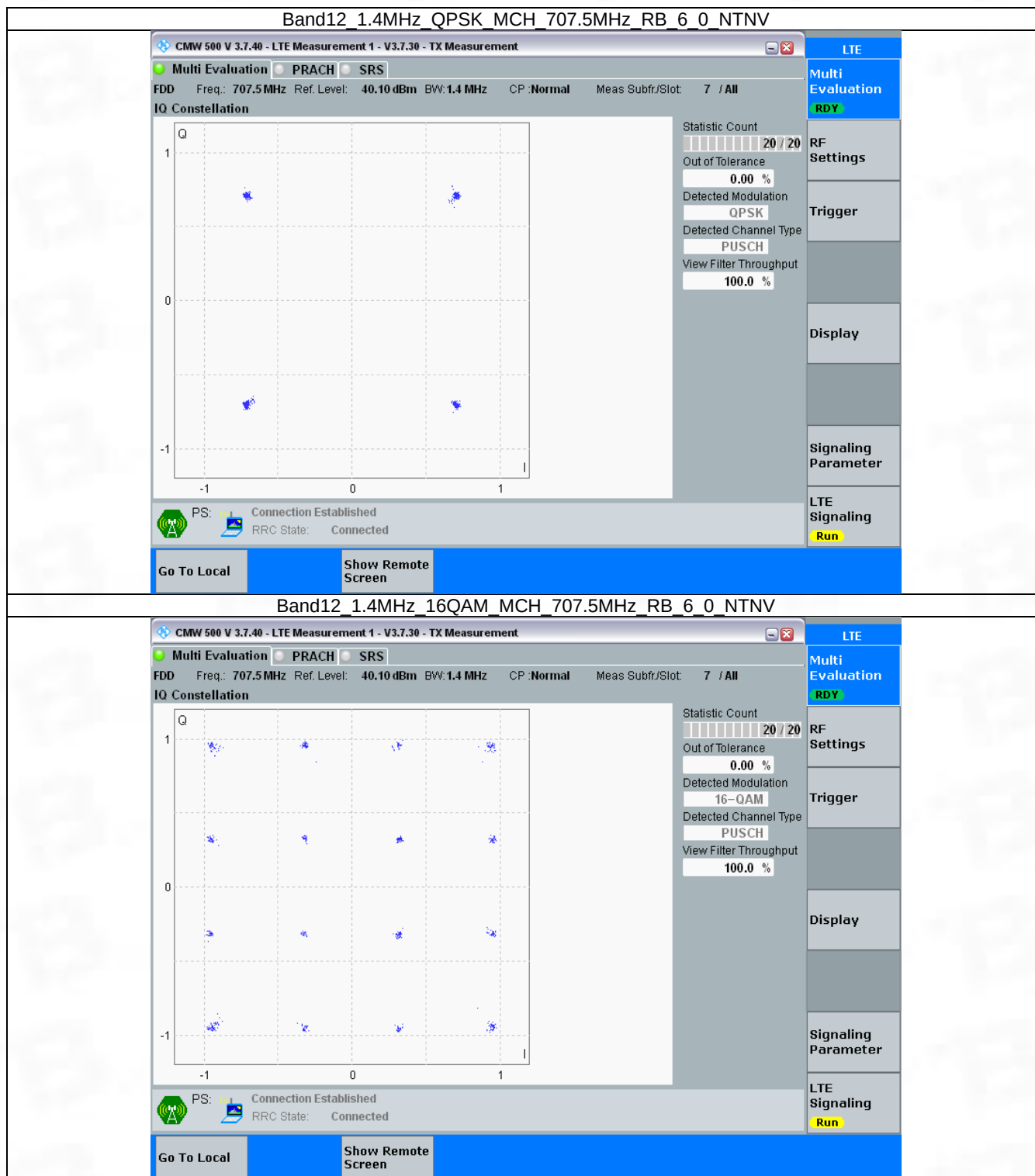
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

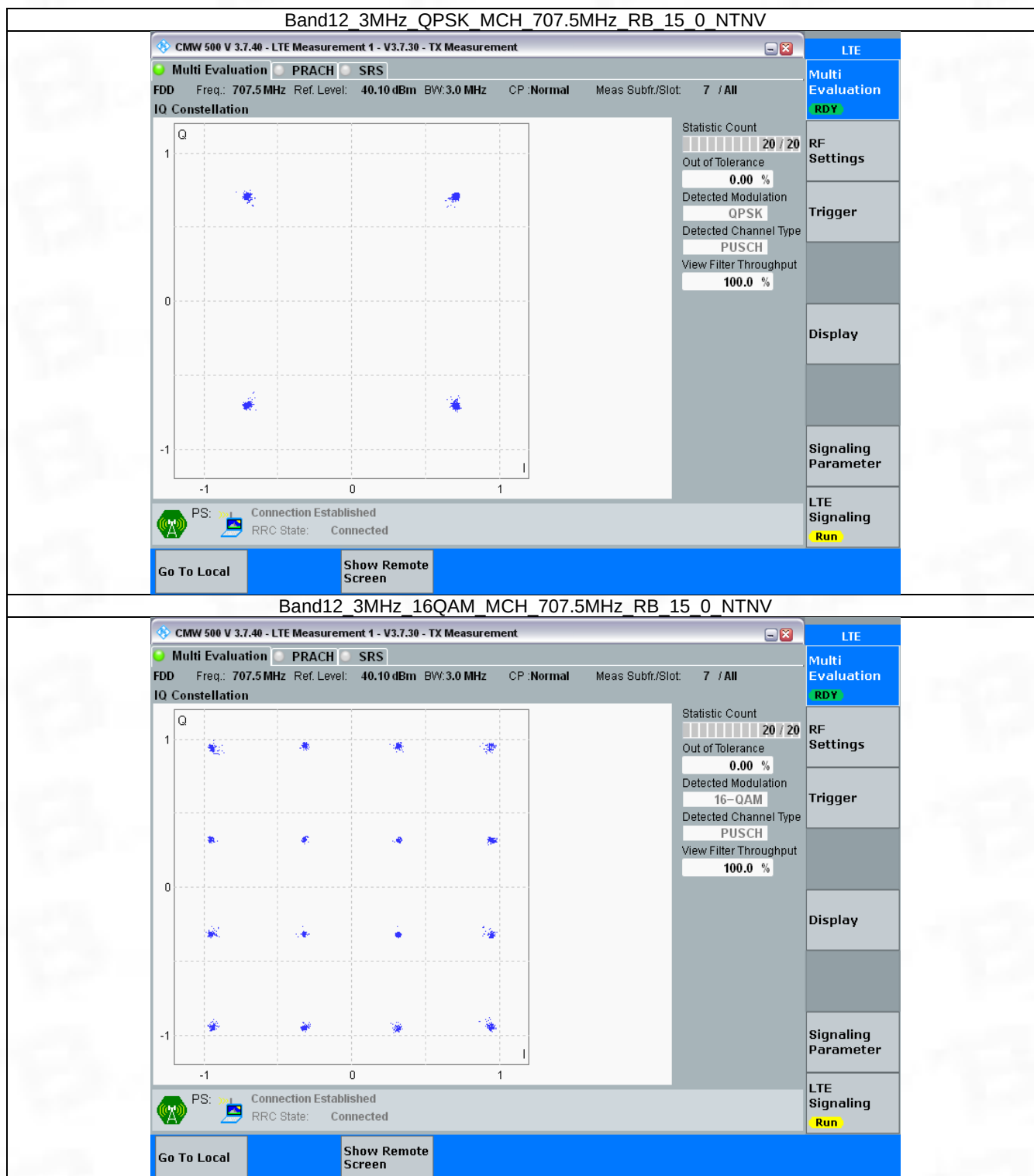
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

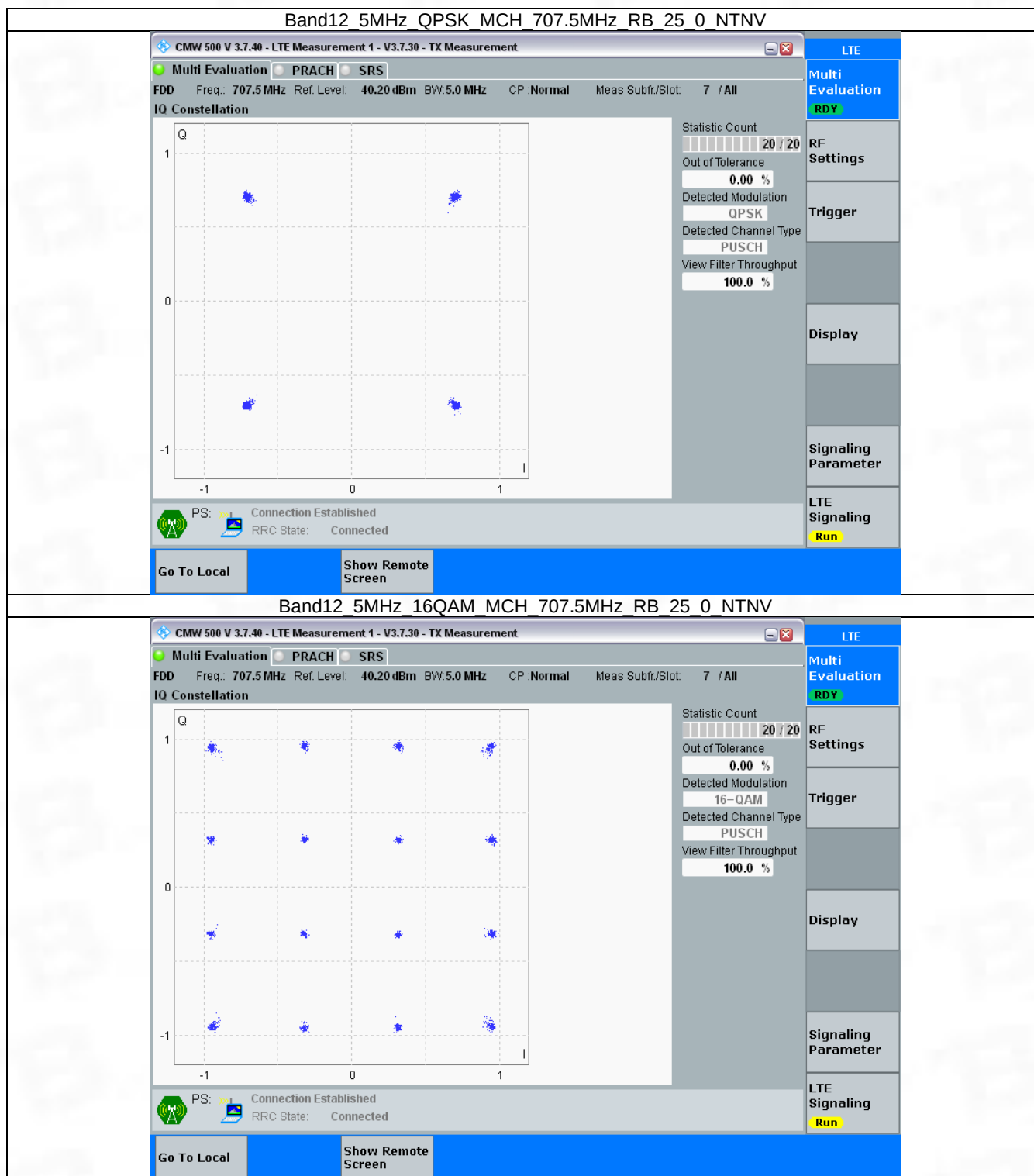
3.2.1 B12_1.4MHz



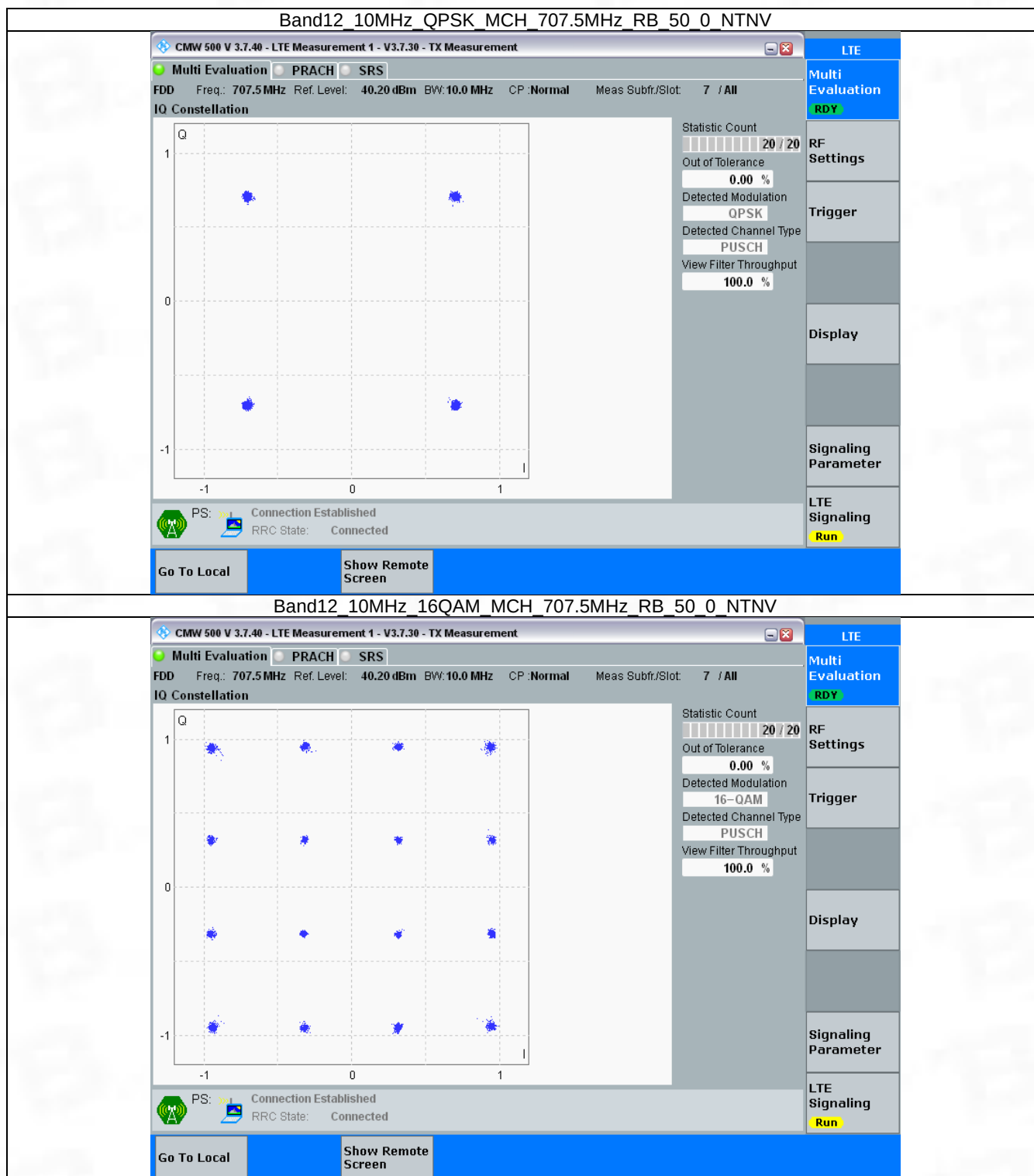
3.2.2 B12_3MHz



3.2.3 B12_5MHz



3.2.4 B12_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band12_OBW

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.128	/	Pass
		707.5	6	0	1.127	/	Pass
		715.3	6	0	1.125	/	Pass
	16QAM	699.7	6	0	1.134	/	Pass
		707.5	6	0	1.120	/	Pass
		715.3	6	0	1.129	/	Pass
3	QPSK	700.5	15	0	2.747	/	Pass
		707.5	15	0	2.763	/	Pass
		714.5	15	0	2.754	/	Pass
	16QAM	700.5	15	0	2.735	/	Pass
		707.5	15	0	2.752	/	Pass
		714.5	15	0	2.752	/	Pass
5	QPSK	701.5	25	0	4.548	/	Pass
		707.5	25	0	4.572	/	Pass
		713.5	25	0	4.572	/	Pass
	16QAM	701.5	25	0	4.556	/	Pass
		707.5	25	0	4.558	/	Pass
		713.5	25	0	4.562	/	Pass
10	QPSK	704	50	0	9.088	/	Pass
		707.5	50	0	9.057	/	Pass
		711	50	0	9.049	/	Pass
	16QAM	704	27	0	5.121	/	Pass
		707.5	27	0	5.256	/	Pass
		711	27	23	5.109	/	Pass

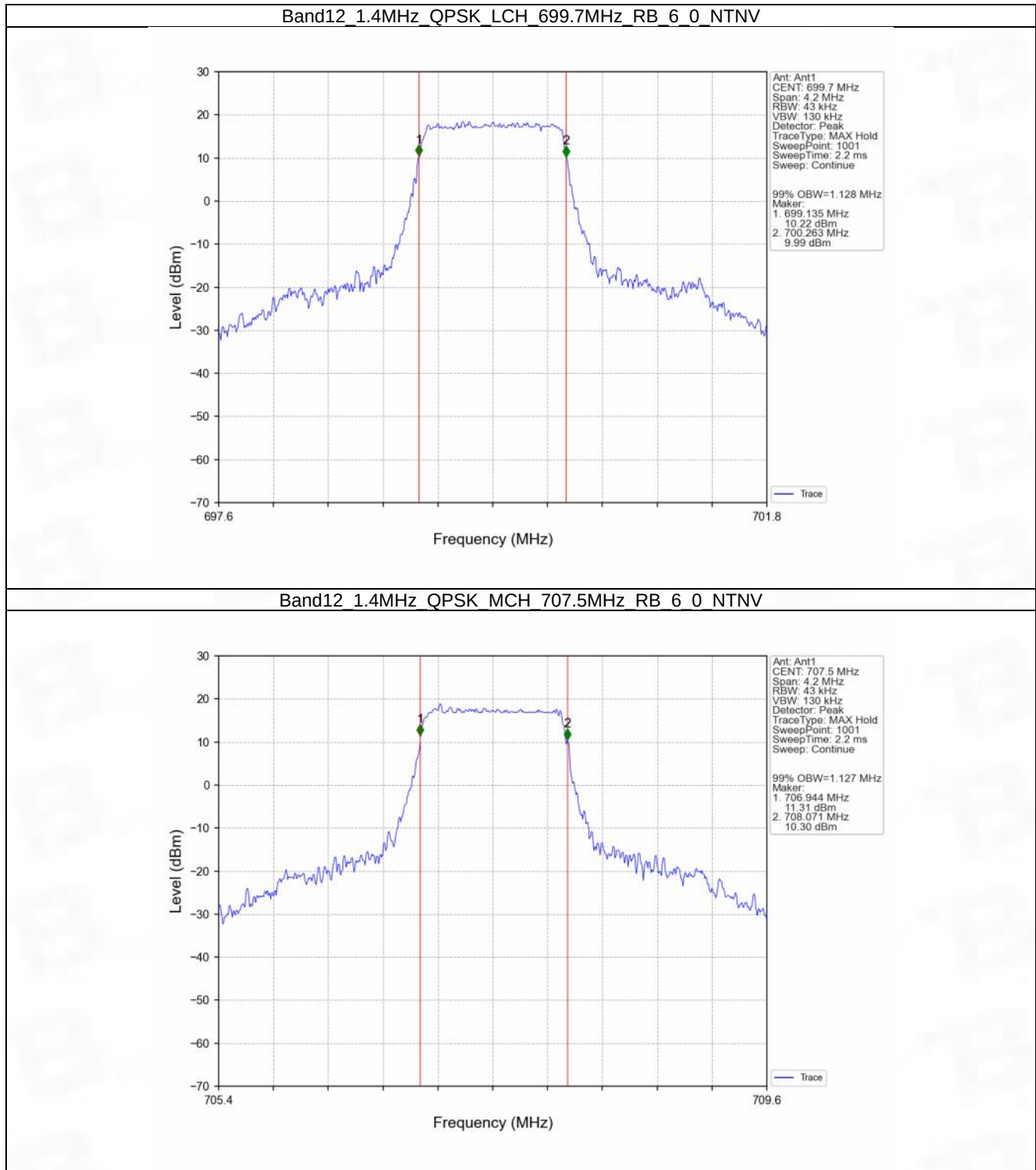
4.1.2 Band12_XDB

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.396	/	Pass
		707.5	6	0	1.400	/	Pass
		715.3	6	0	1.370	/	Pass
	16QAM	699.7	6	0	1.419	/	Pass
		707.5	6	0	1.401	/	Pass
		715.3	6	0	1.424	/	Pass
3	QPSK	700.5	15	0	3.118	/	Pass
		707.5	15	0	3.111	/	Pass
		714.5	15	0	3.130	/	Pass
	16QAM	700.5	15	0	3.107	/	Pass
		707.5	15	0	3.119	/	Pass
		714.5	15	0	3.110	/	Pass
5	QPSK	701.5	25	0	5.231	/	Pass
		707.5	25	0	5.254	/	Pass
		713.5	25	0	5.249	/	Pass

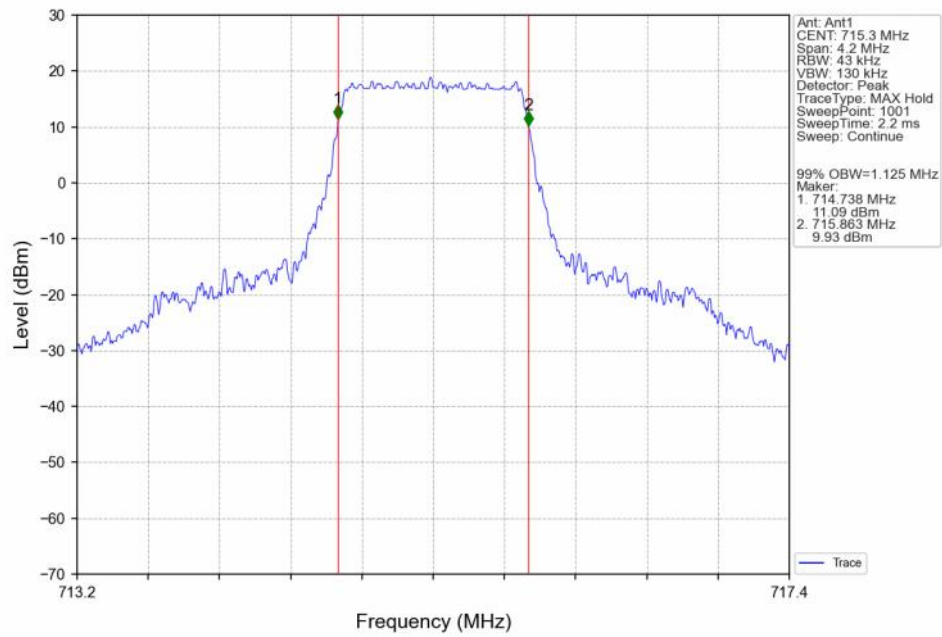
10	16QAM	701.5	25	0	5.170	/	Pass
		707.5	25	0	5.257	/	Pass
		713.5	25	0	5.241	/	Pass
	QPSK	704	50	0	10.195	/	Pass
		707.5	50	0	10.201	/	Pass
		711	50	0	10.203	/	Pass
	16QAM	704	27	0	8.500	/	Pass
		707.5	27	0	8.887	/	Pass
		711	27	23	8.816	/	Pass

4.2 Test Graph

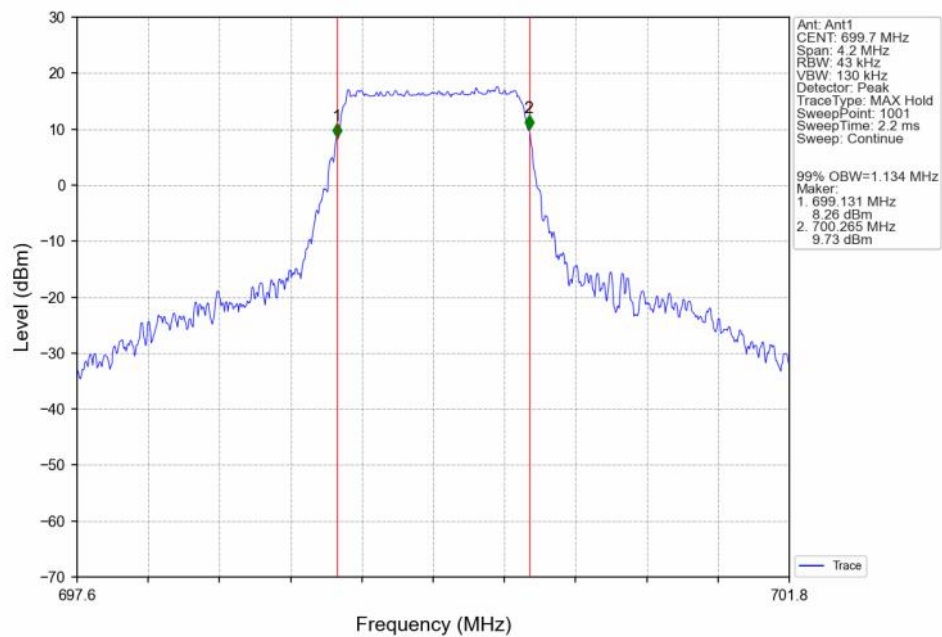
4.2.1 Band12_OBW



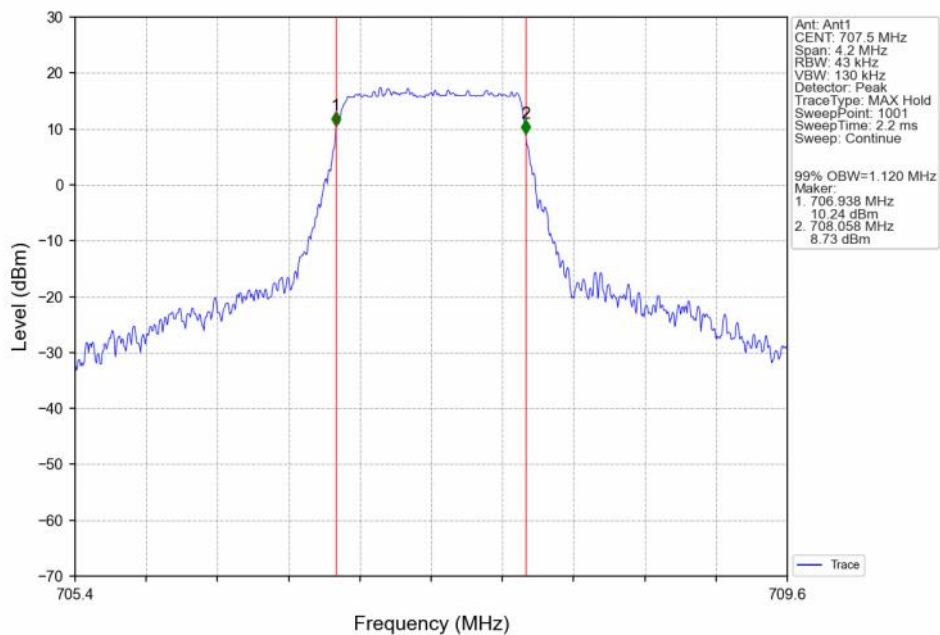
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



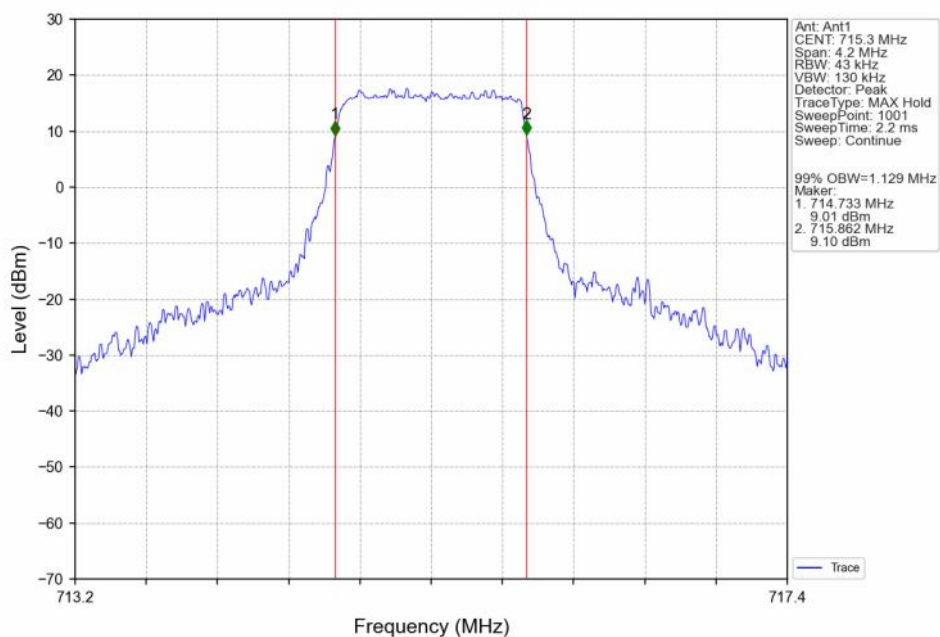
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



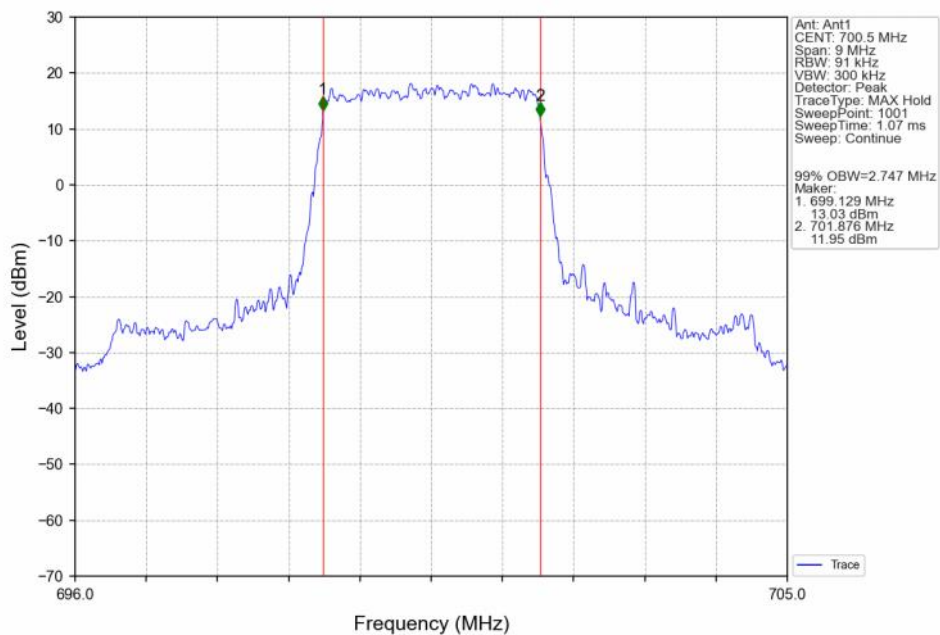
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



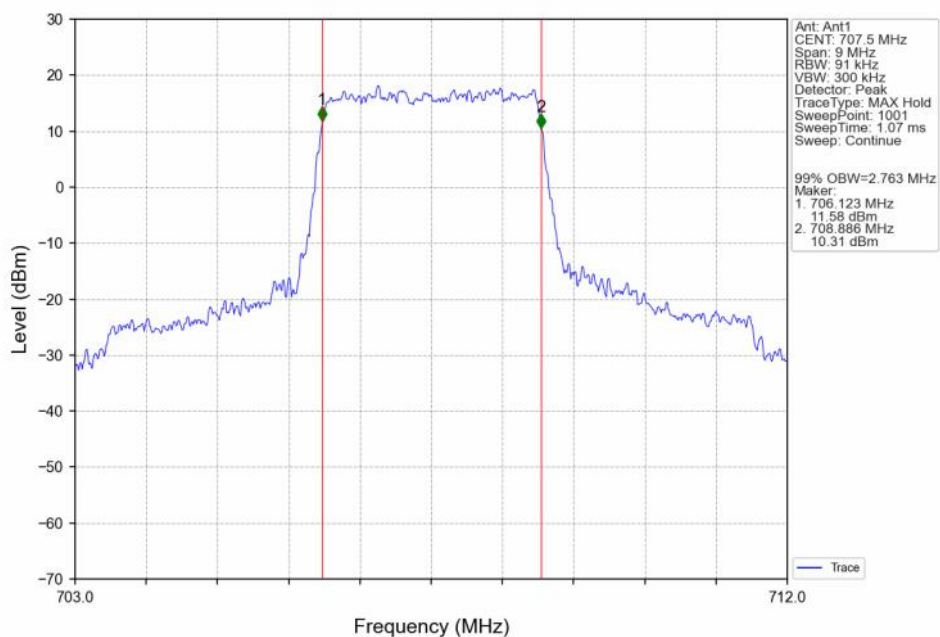
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



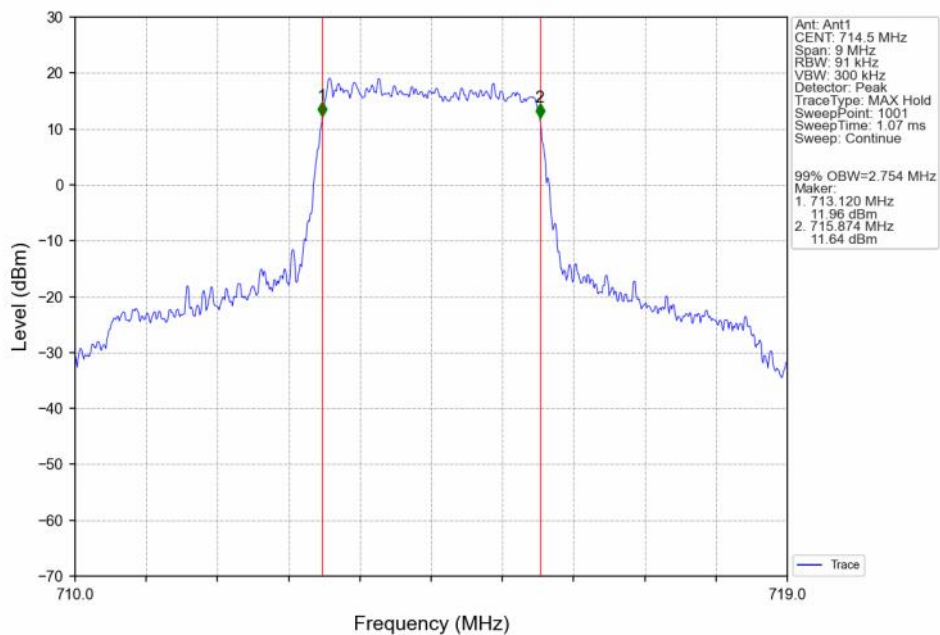
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



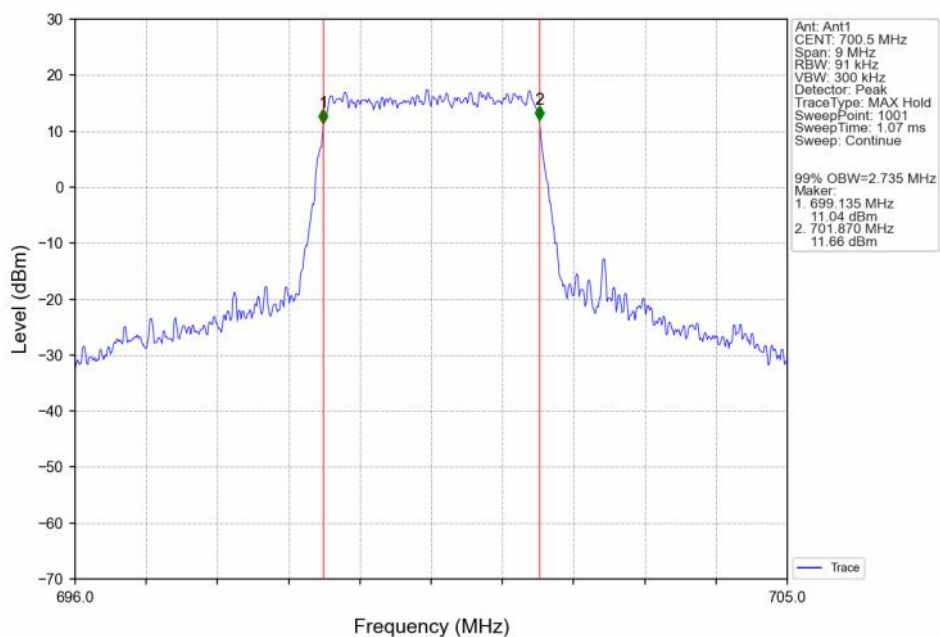
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



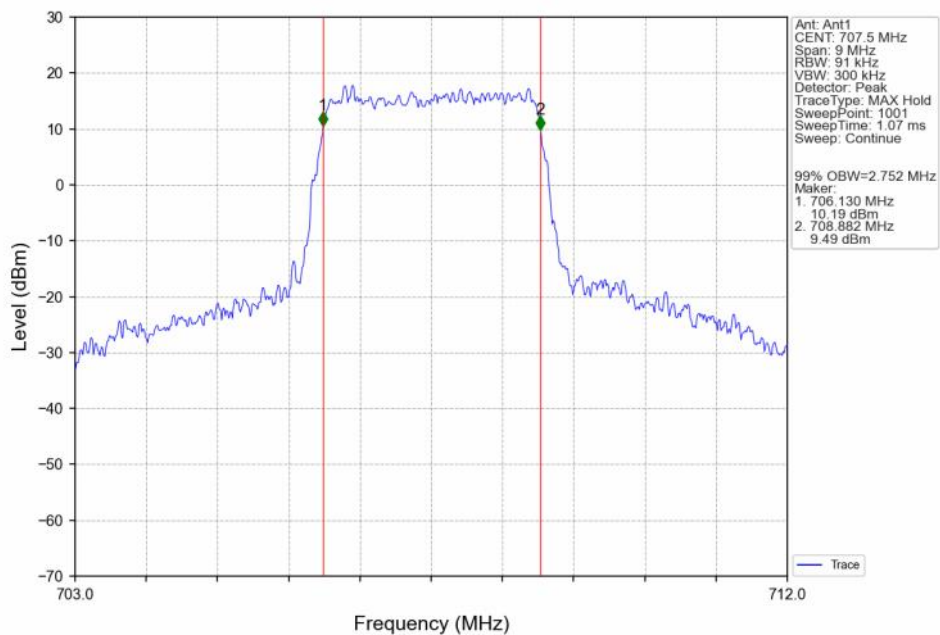
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



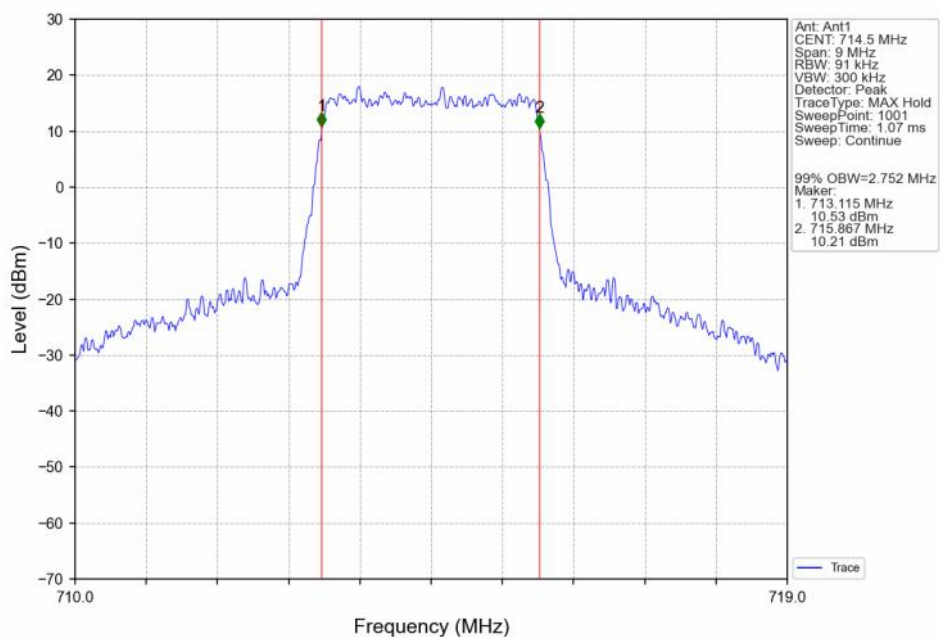
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



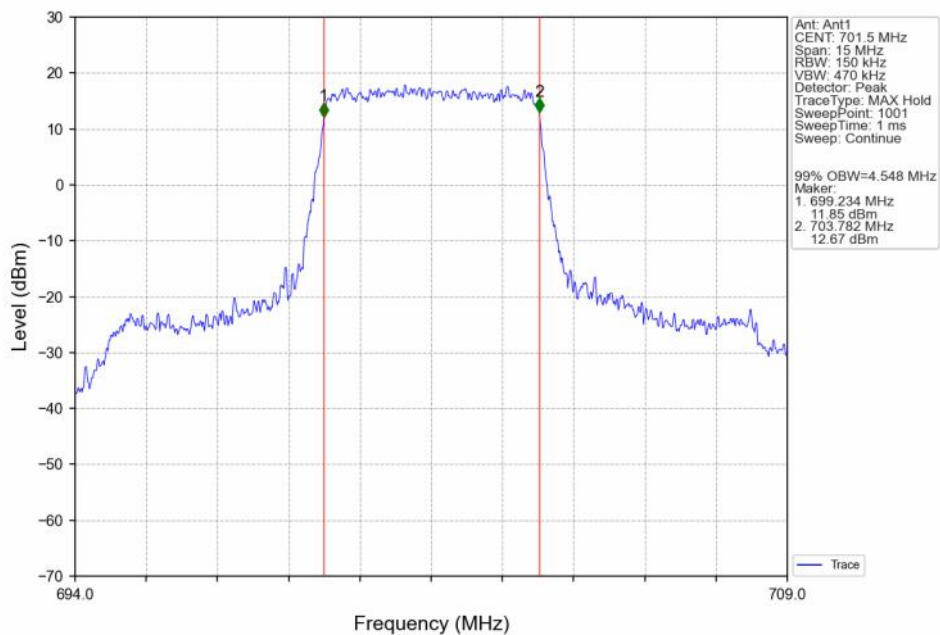
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



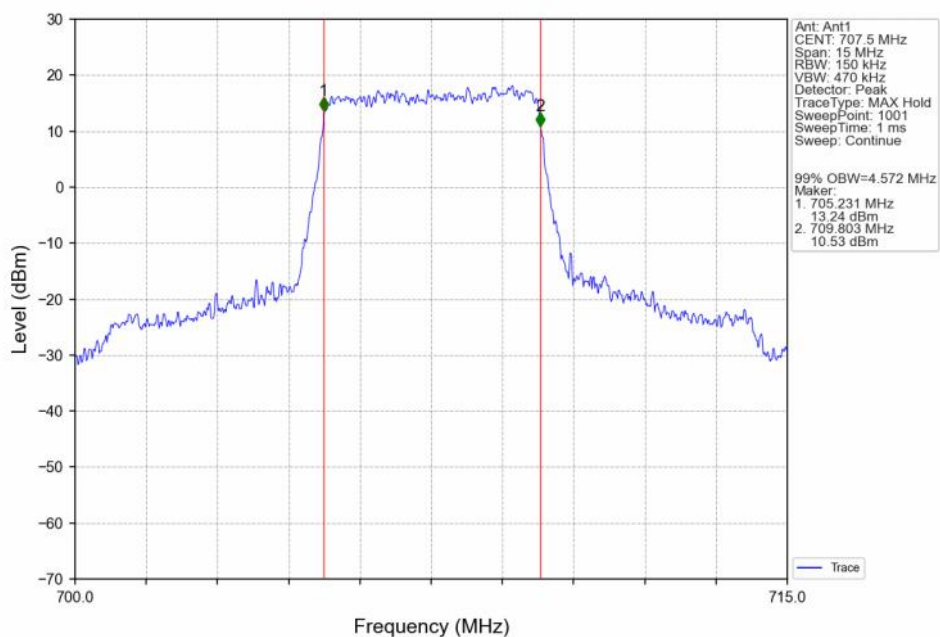
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



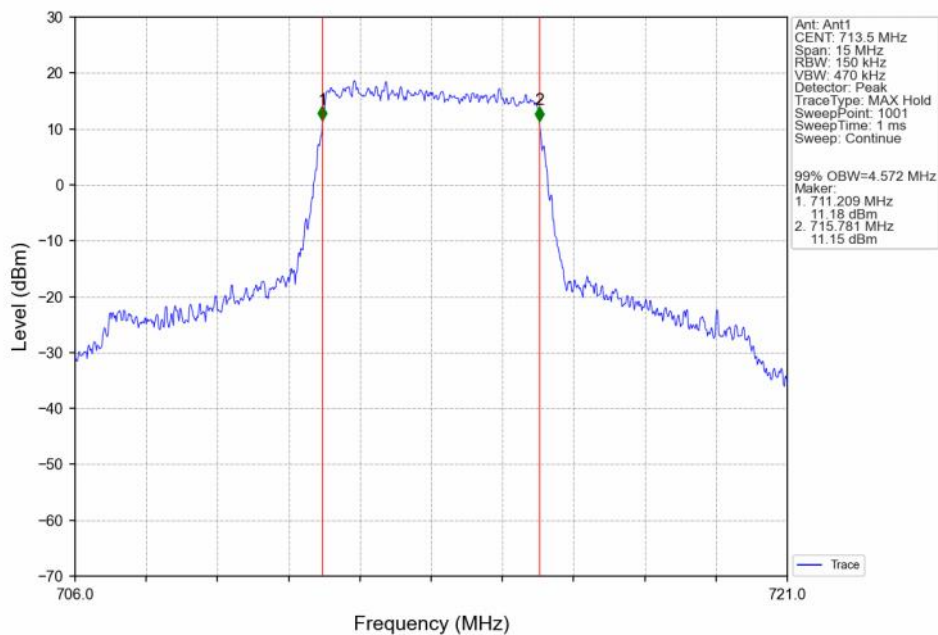
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



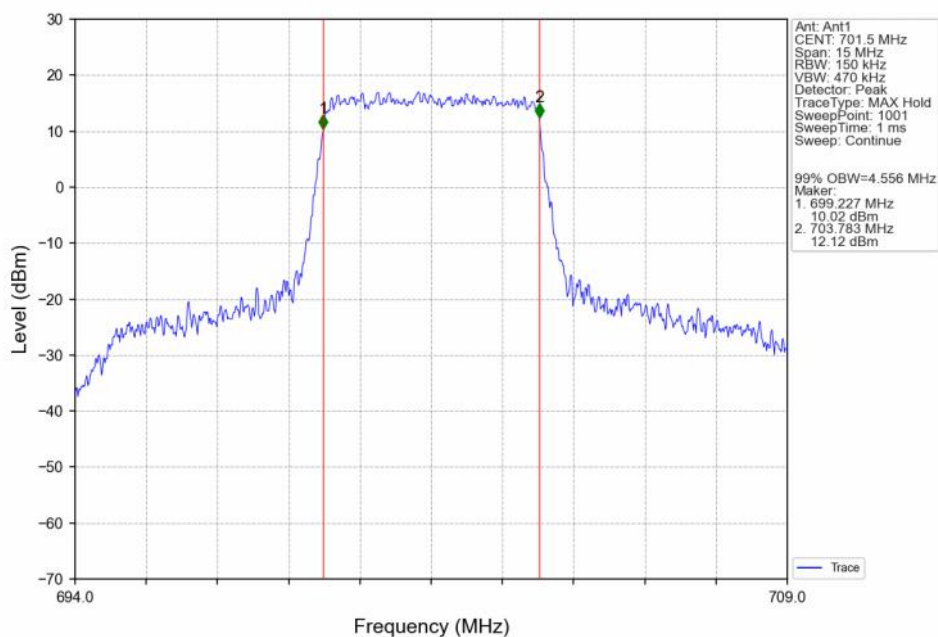
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



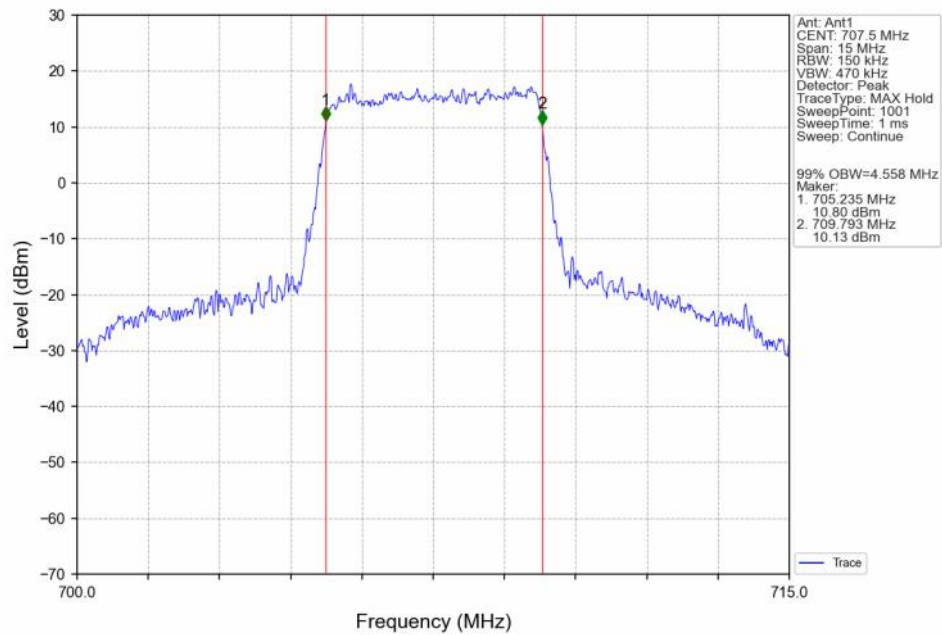
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



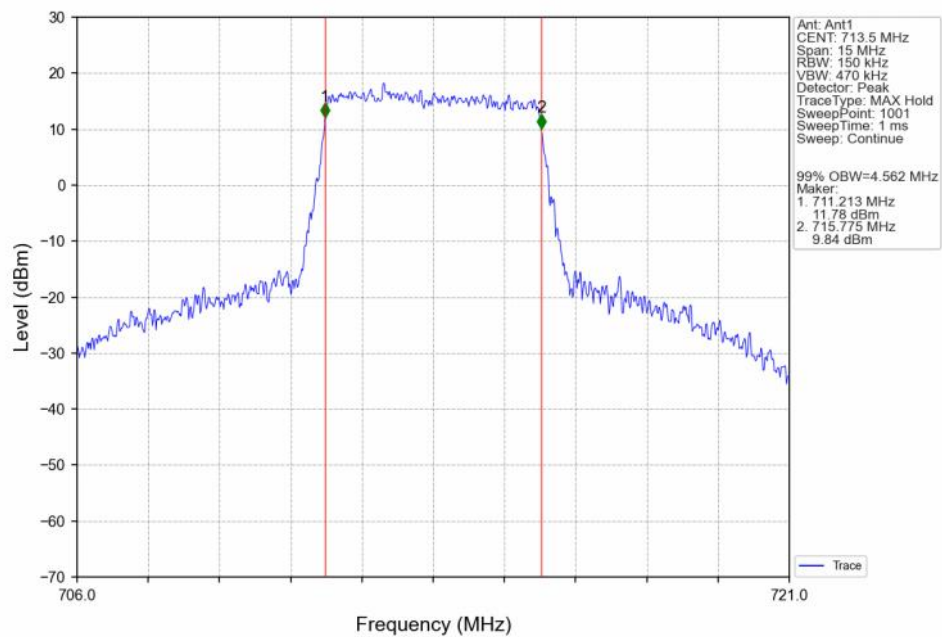
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



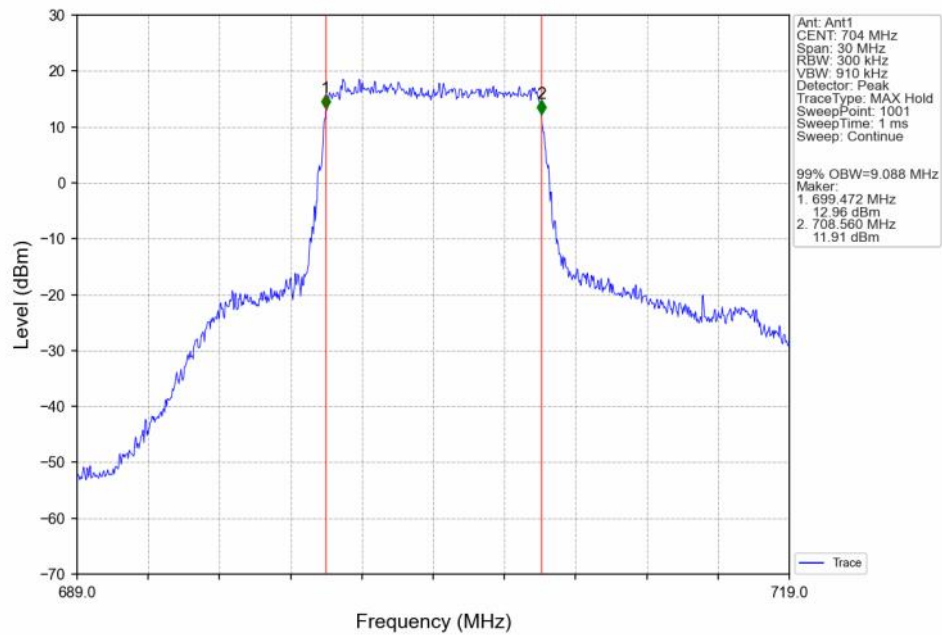
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



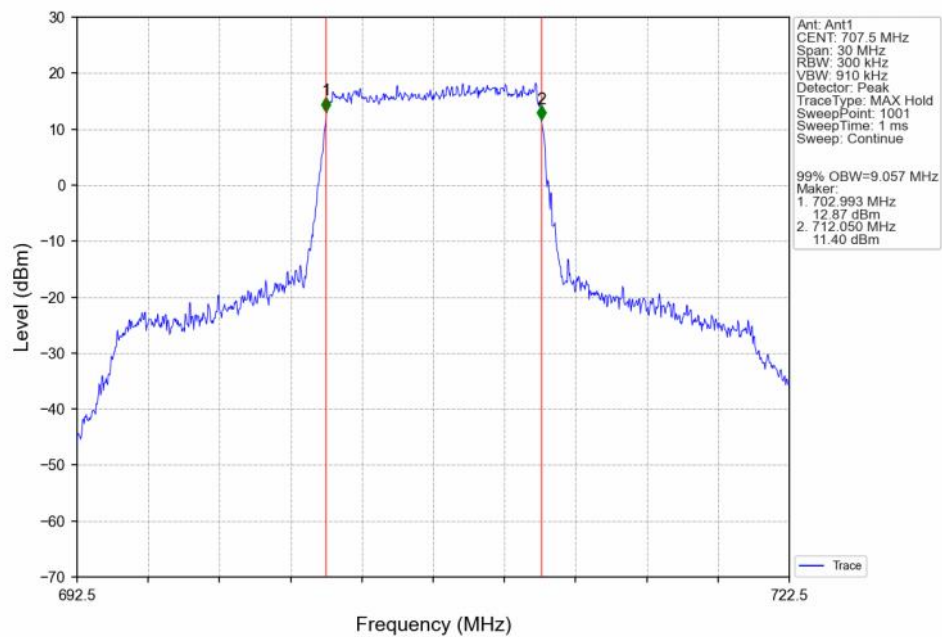
Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV



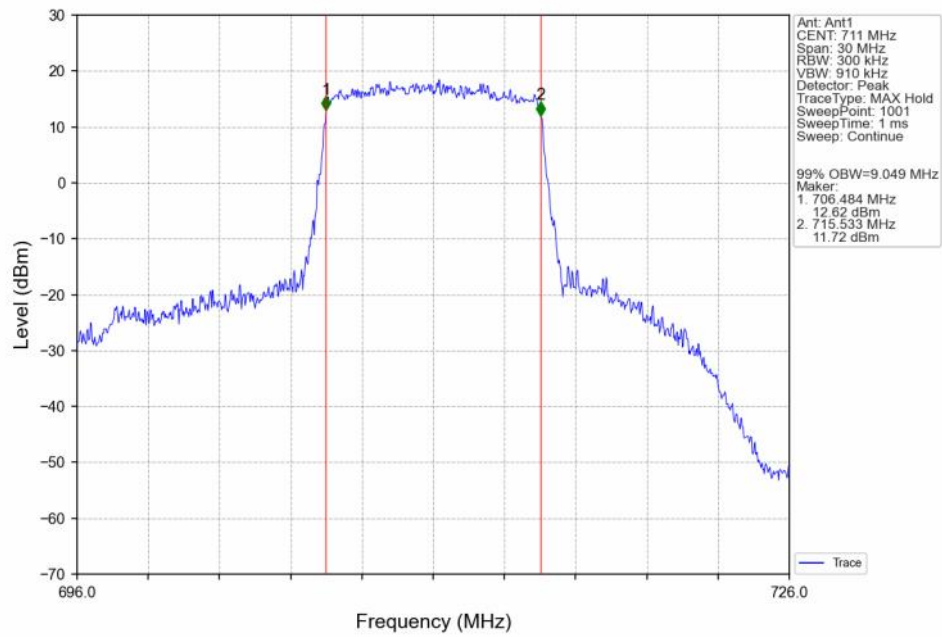
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



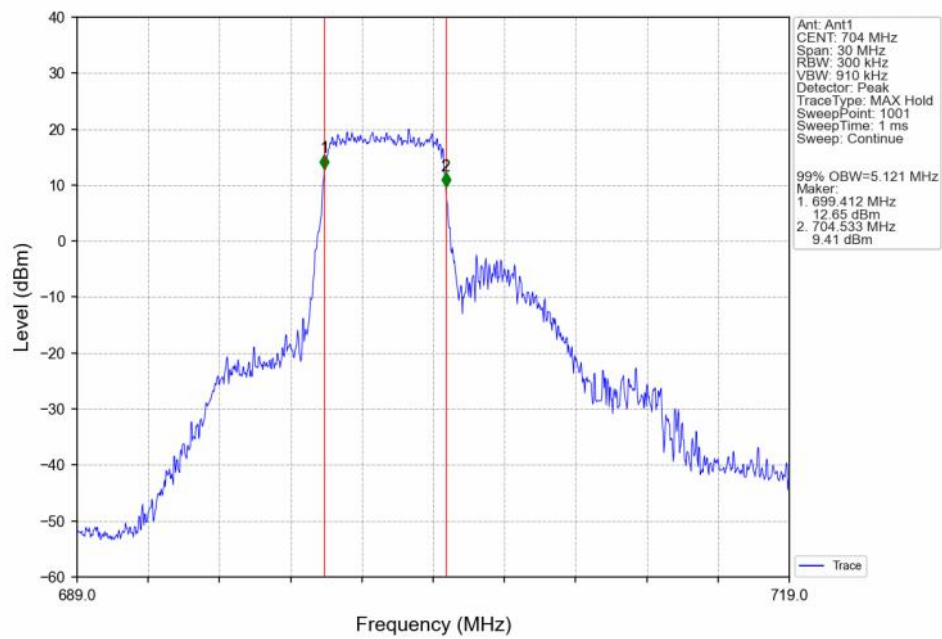
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN



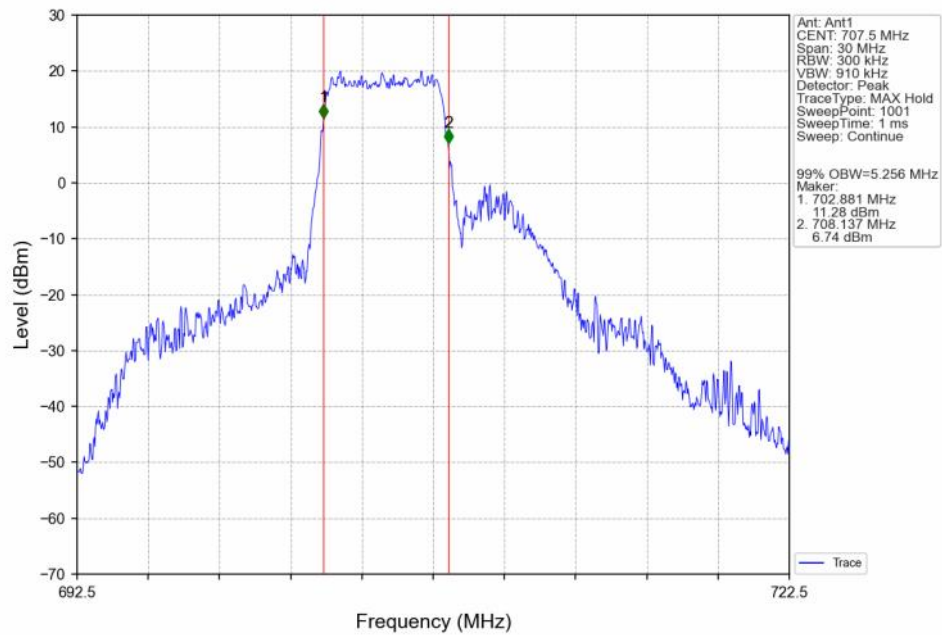
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



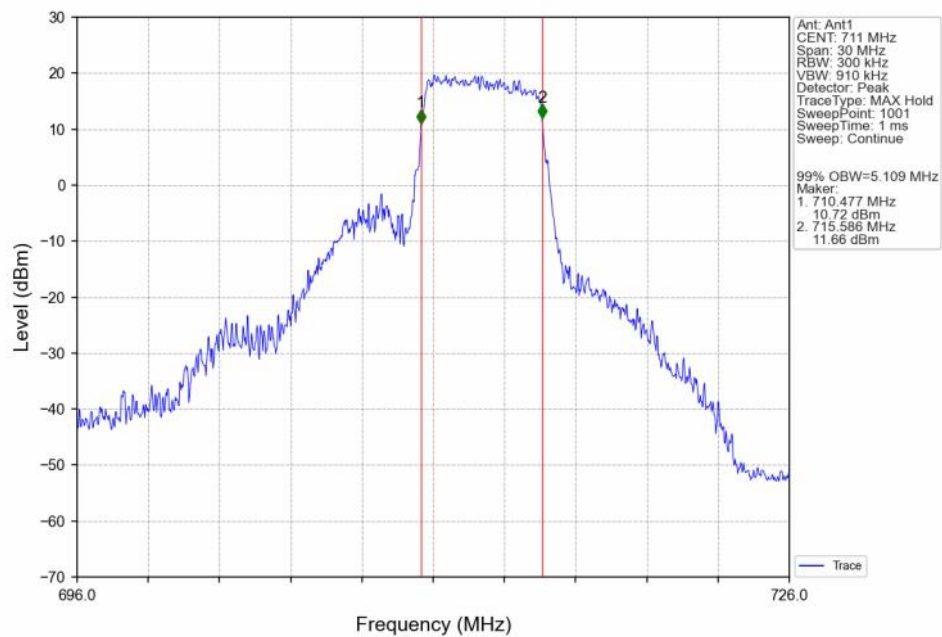
Band12_10MHz_16QAM_LCH_704MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_27_0_NTNV

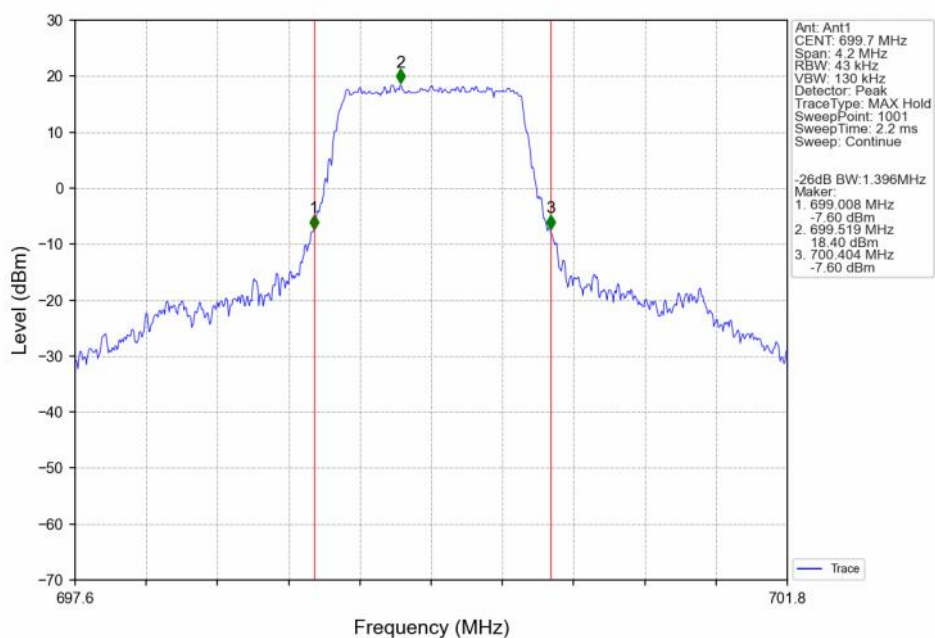


Band12_10MHz_16QAM_HCH_711MHz_RB_27_23_NTNV

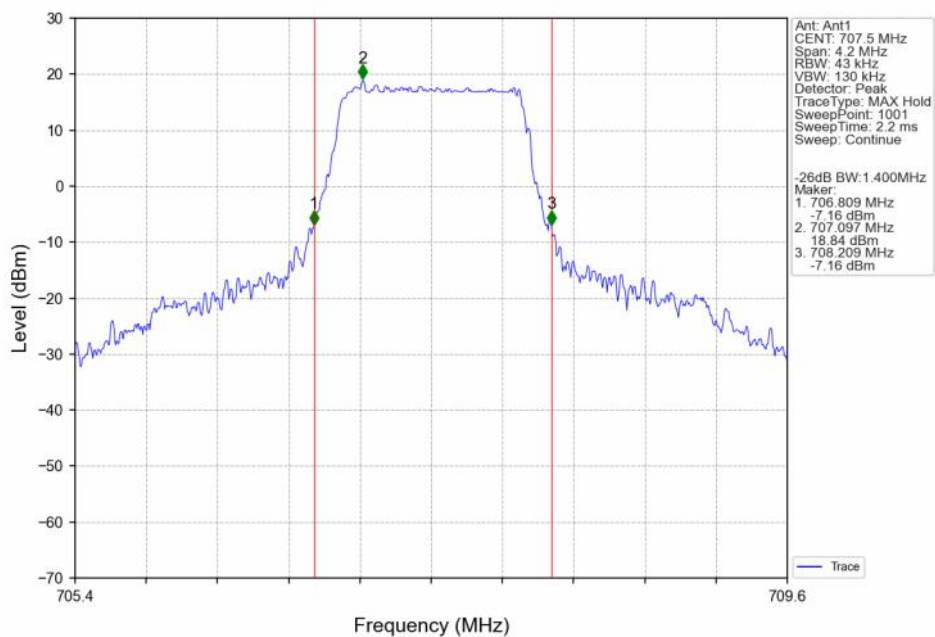


4.2.2 Band12_XDB

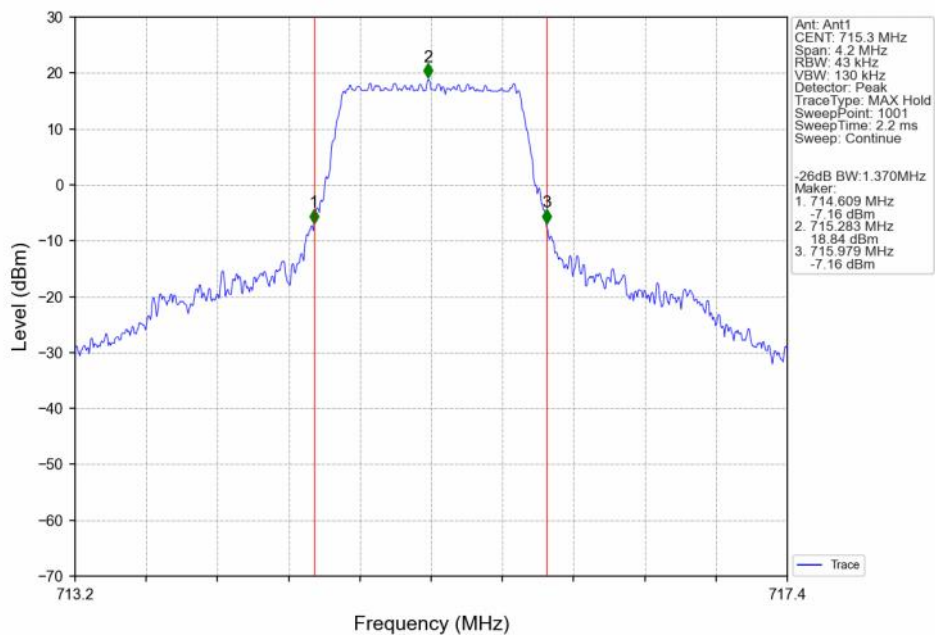
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



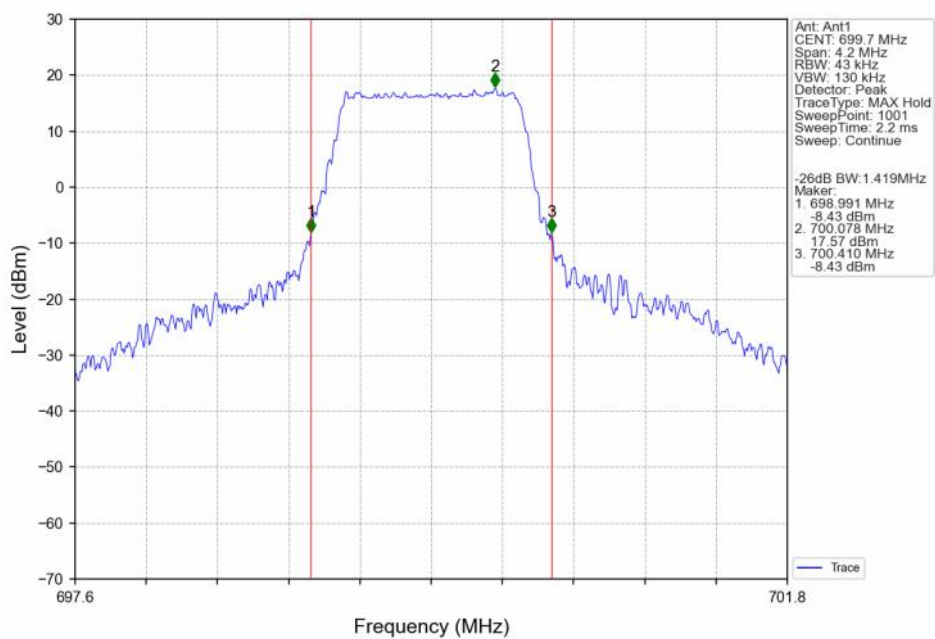
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



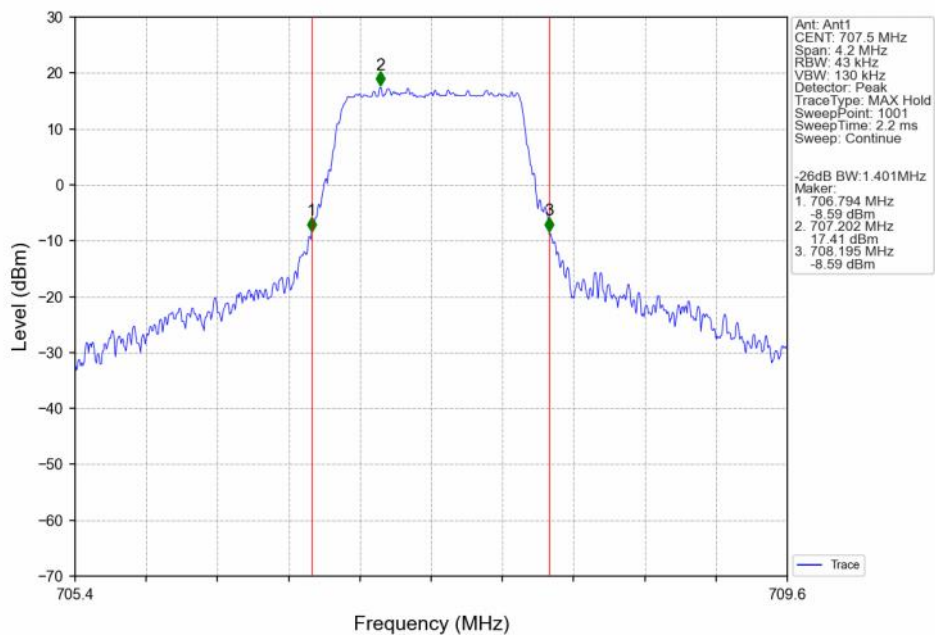
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



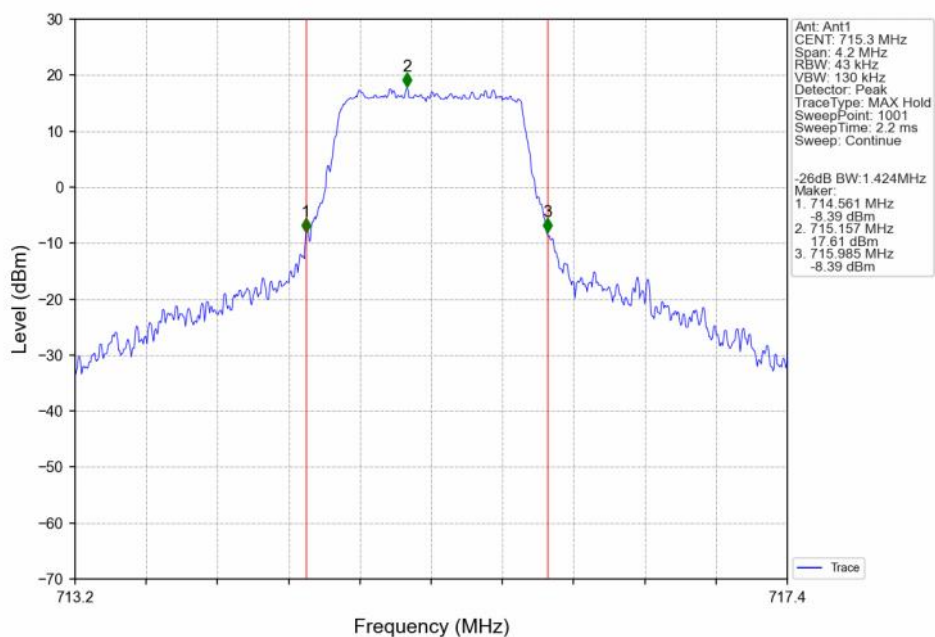
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



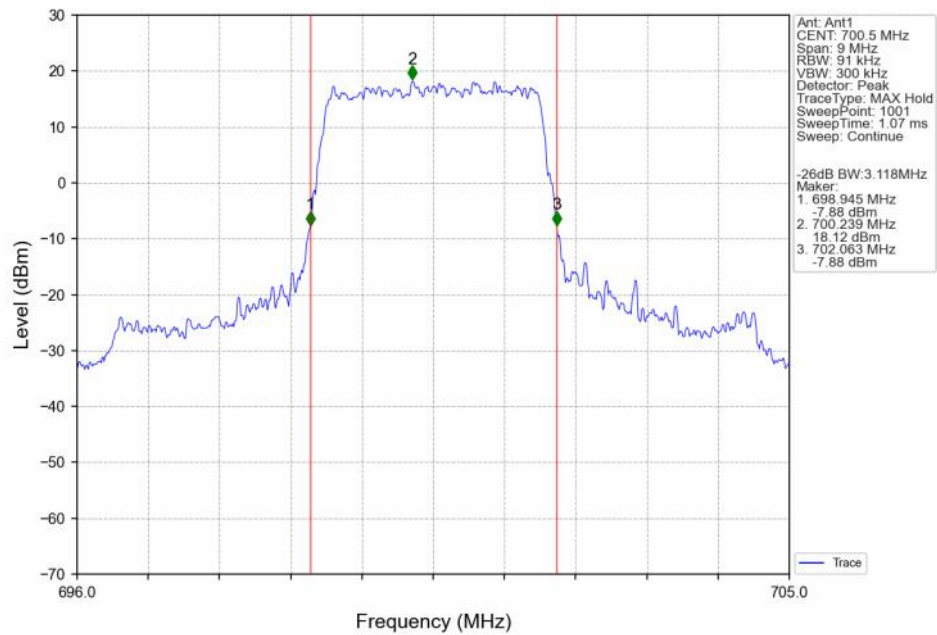
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



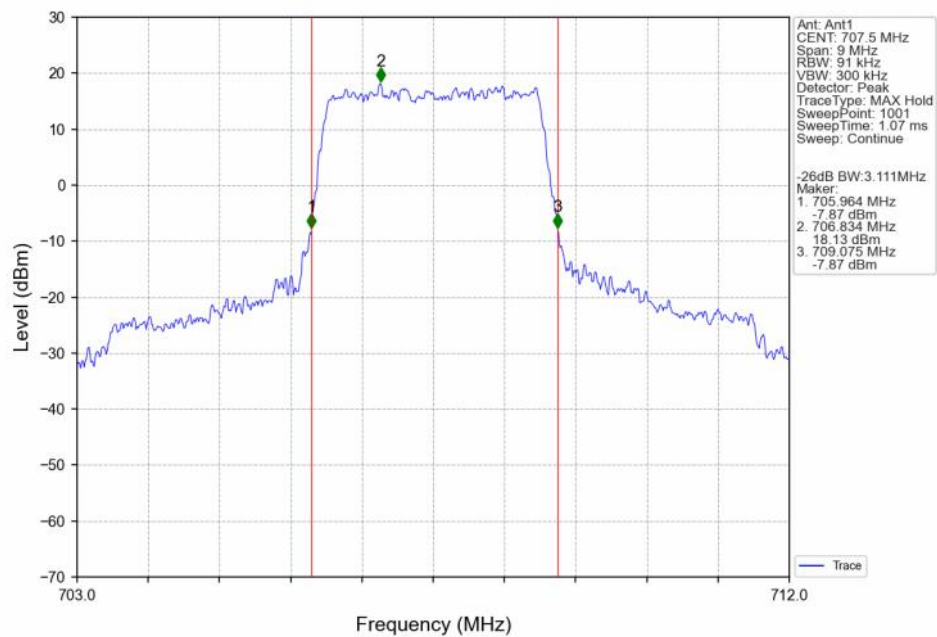
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



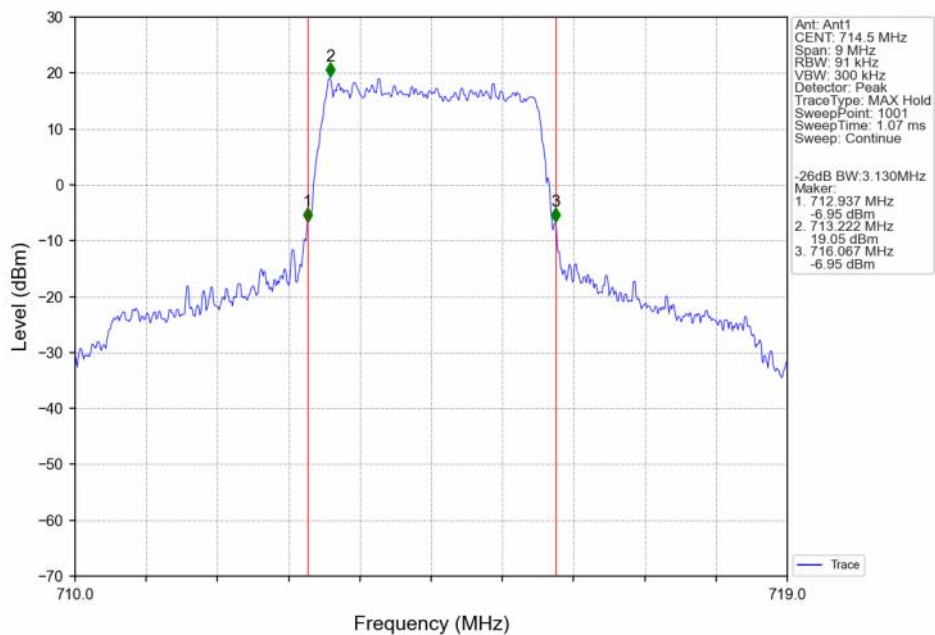
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



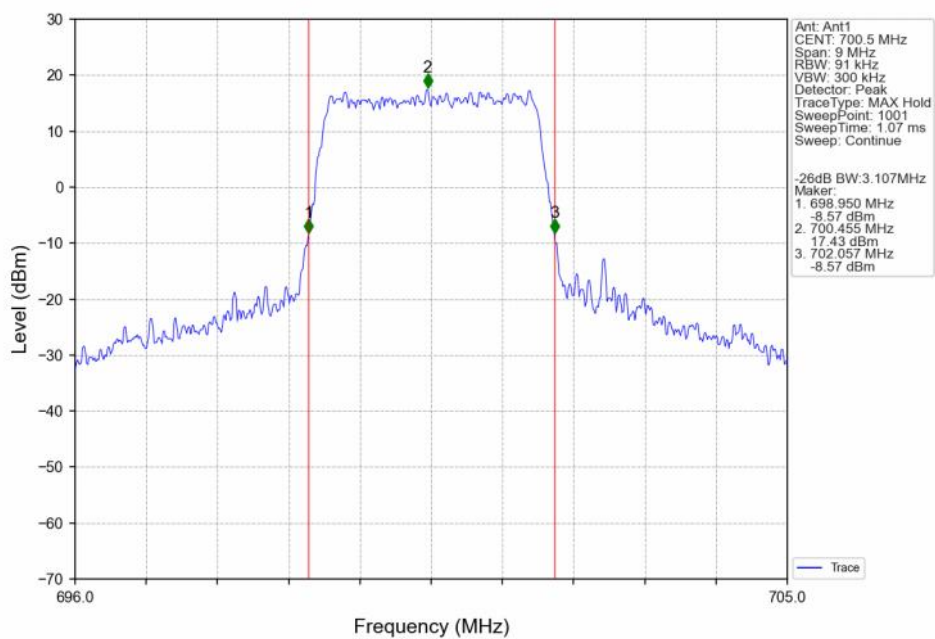
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



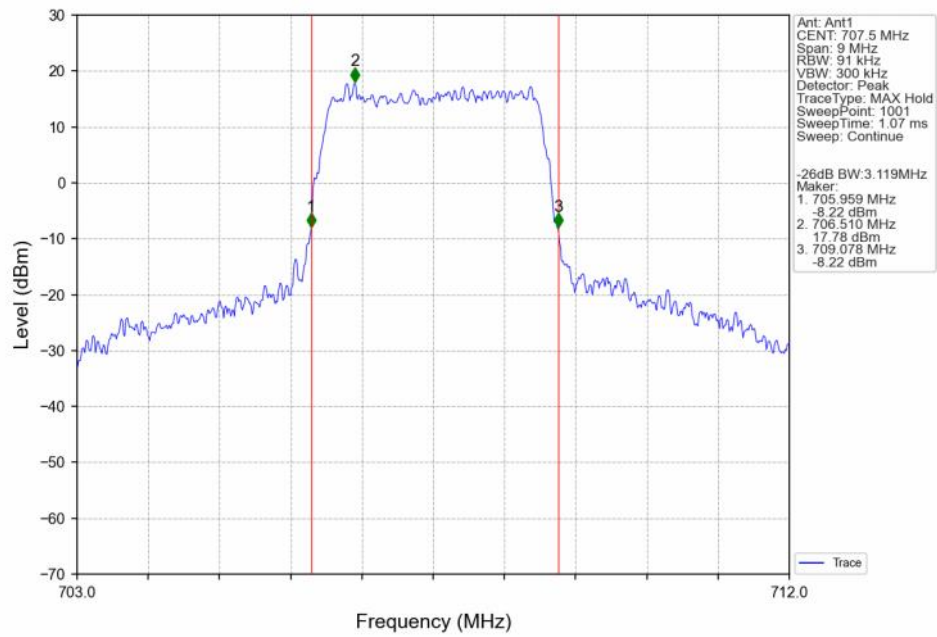
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



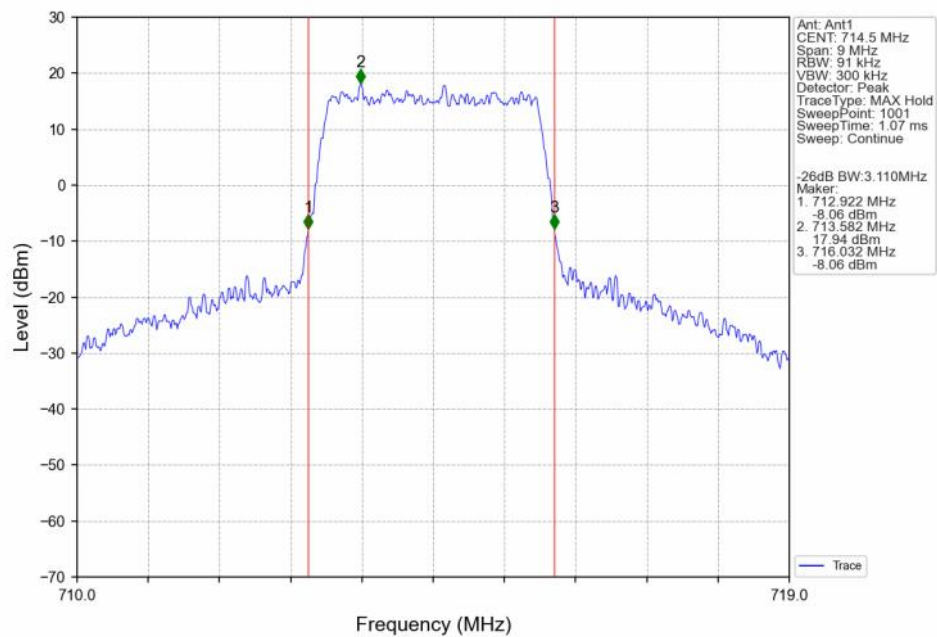
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



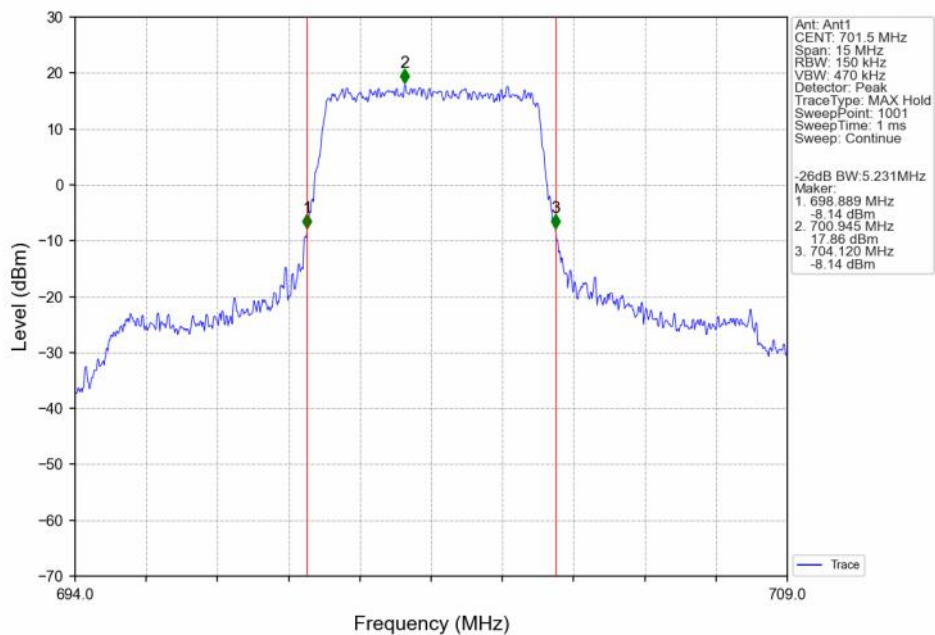
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



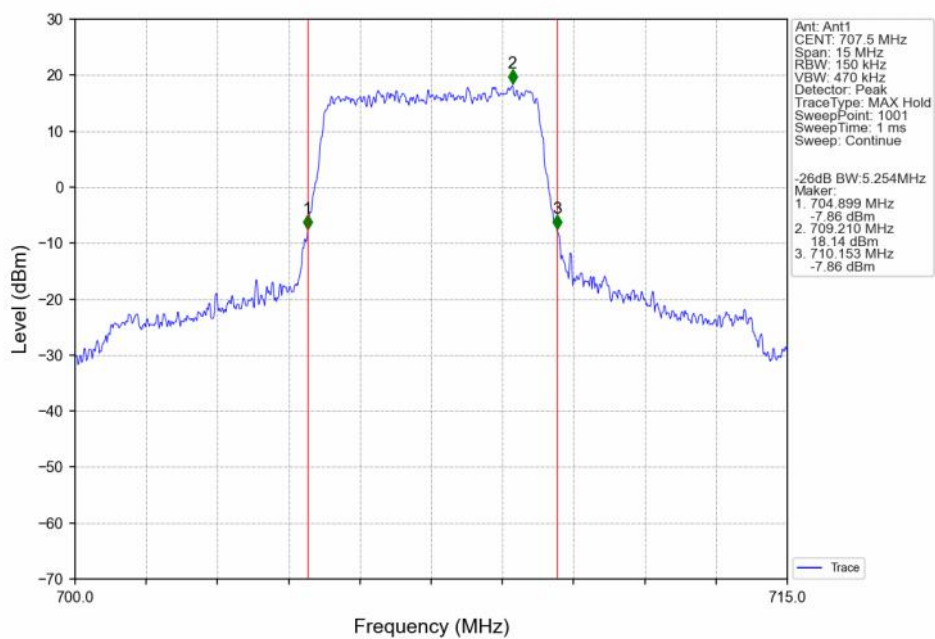
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



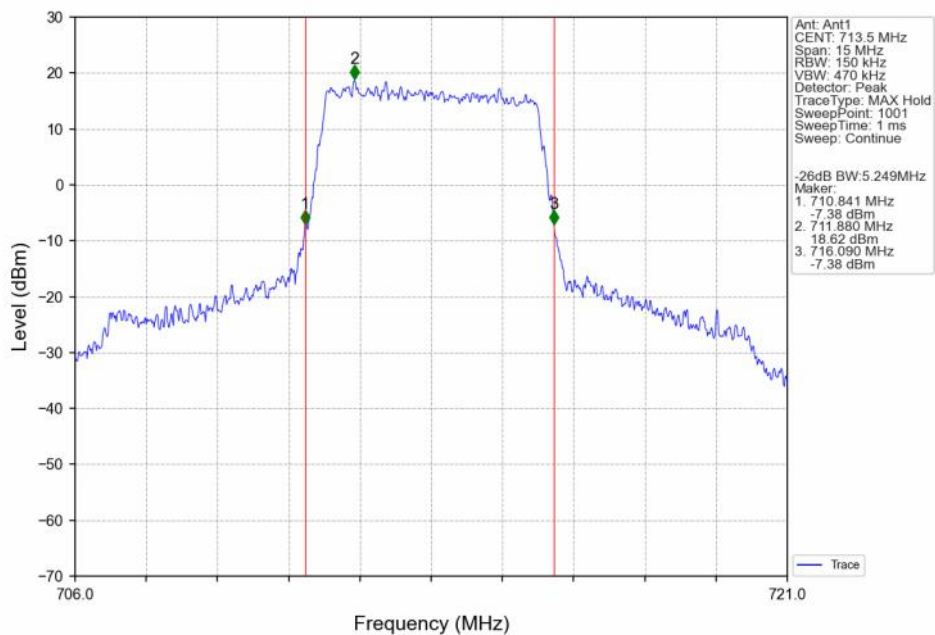
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



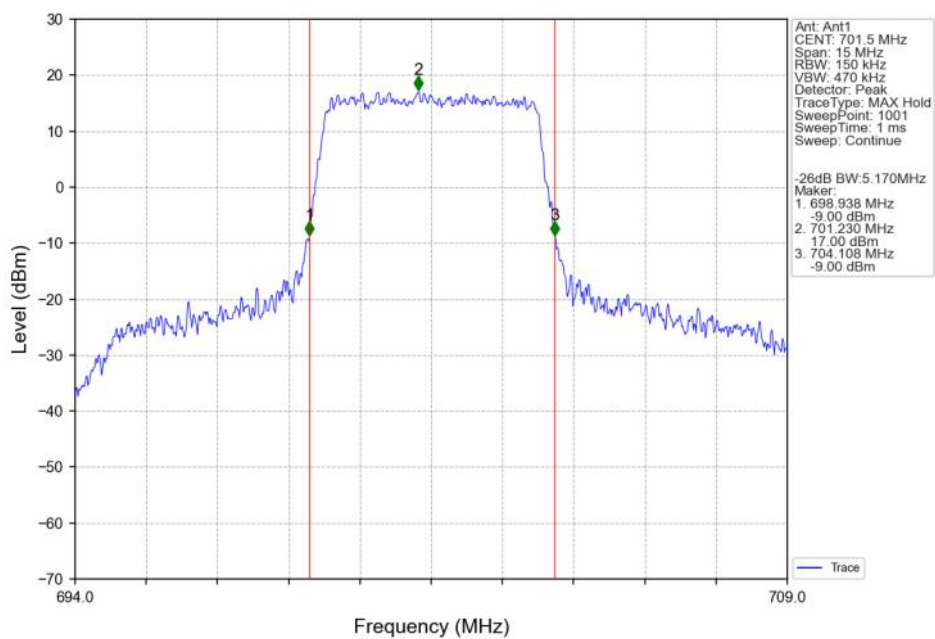
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



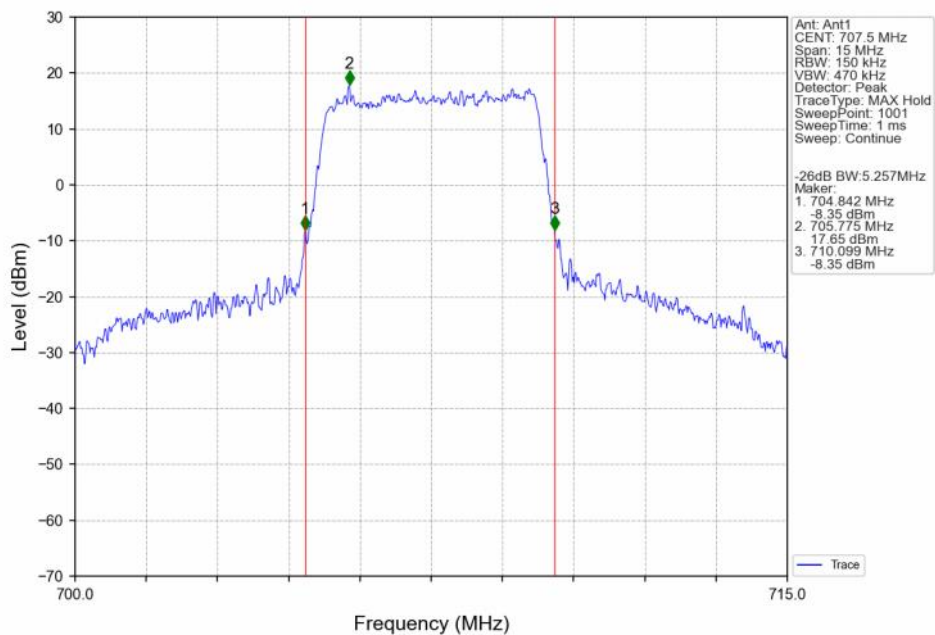
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTN



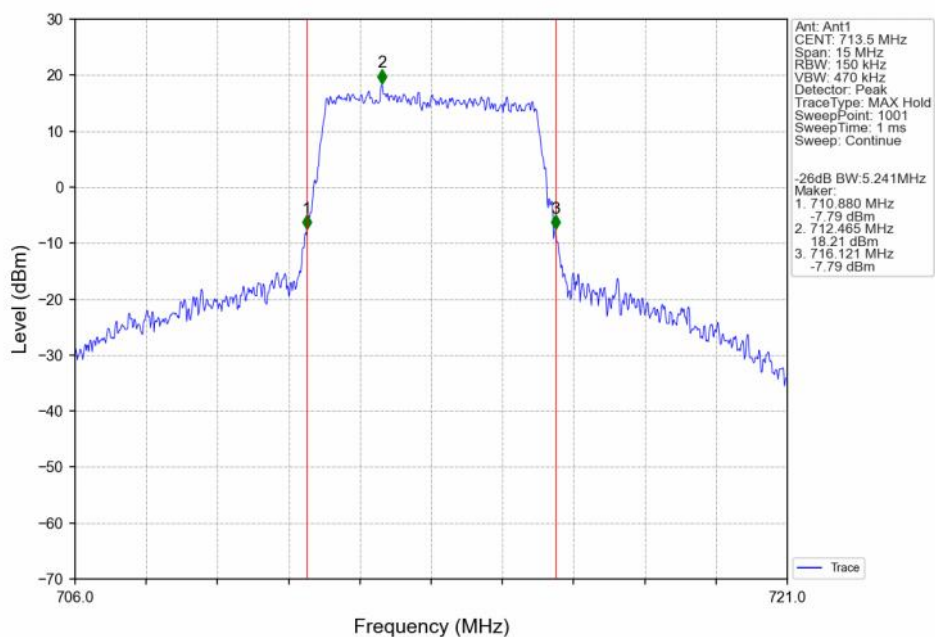
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTN



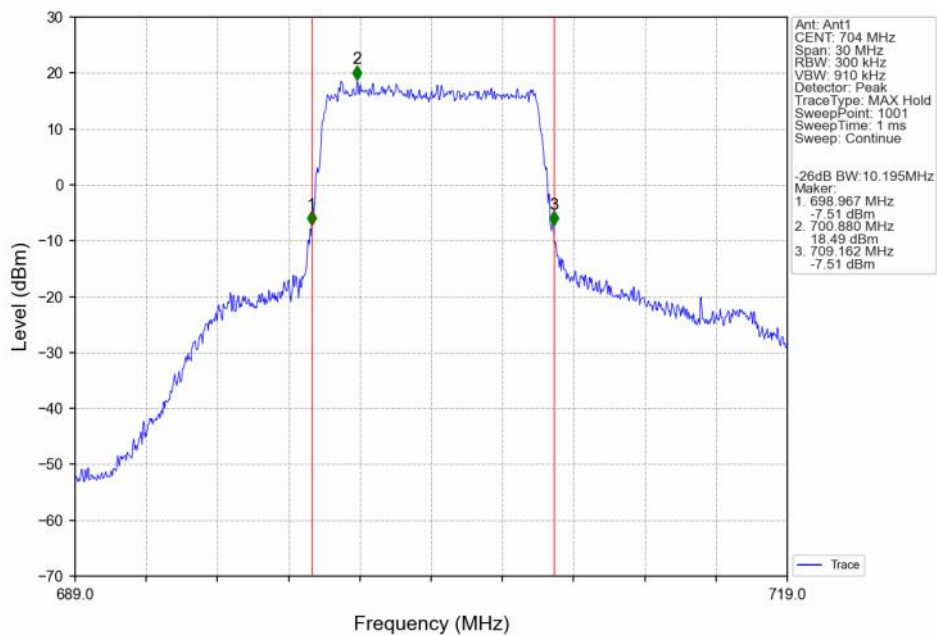
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



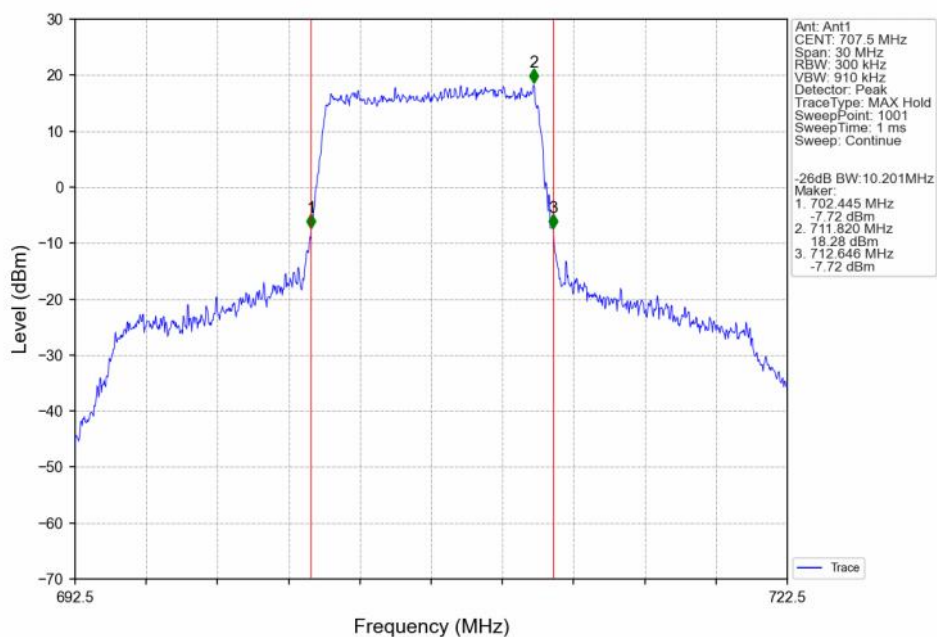
Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV



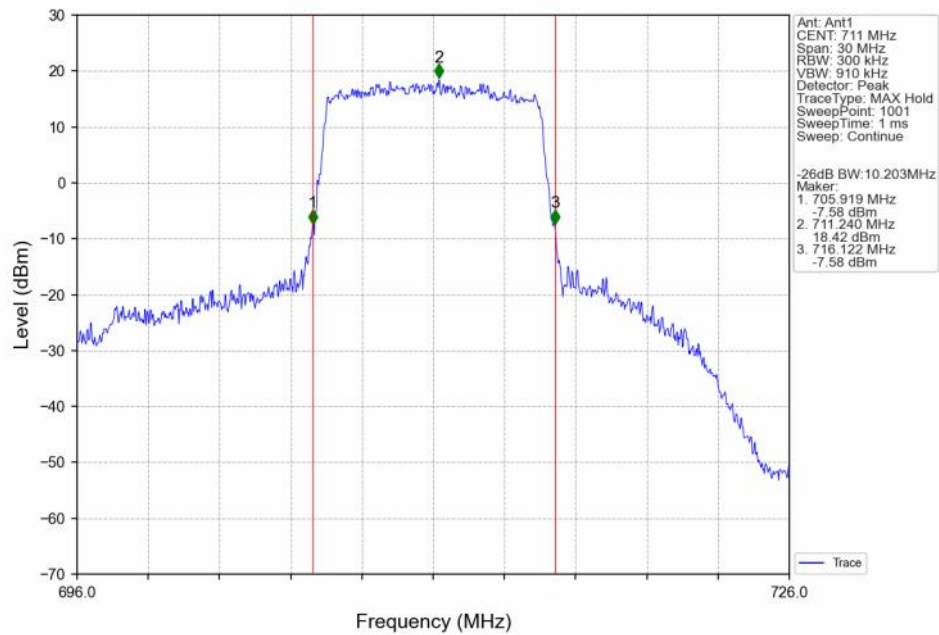
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



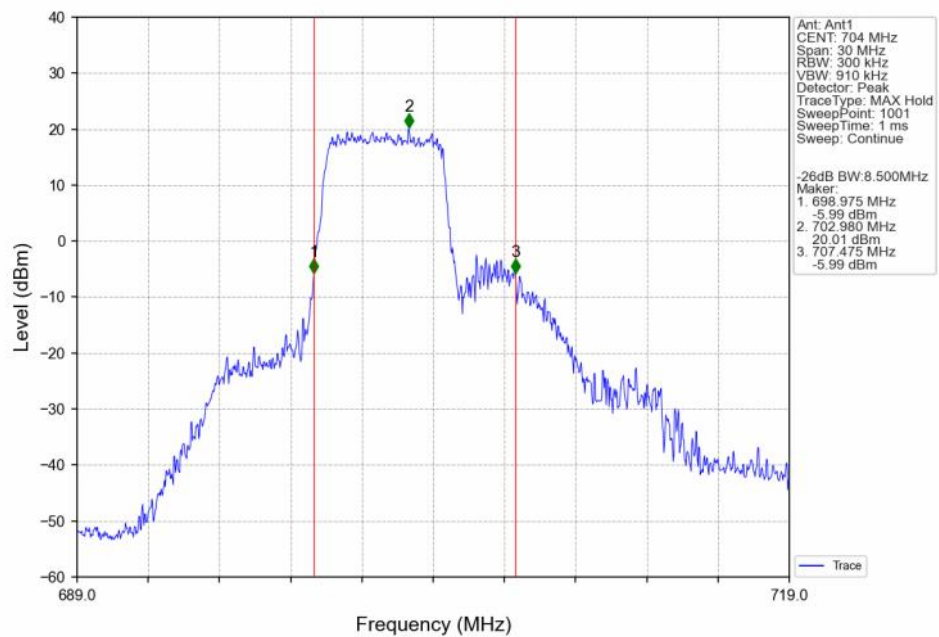
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN



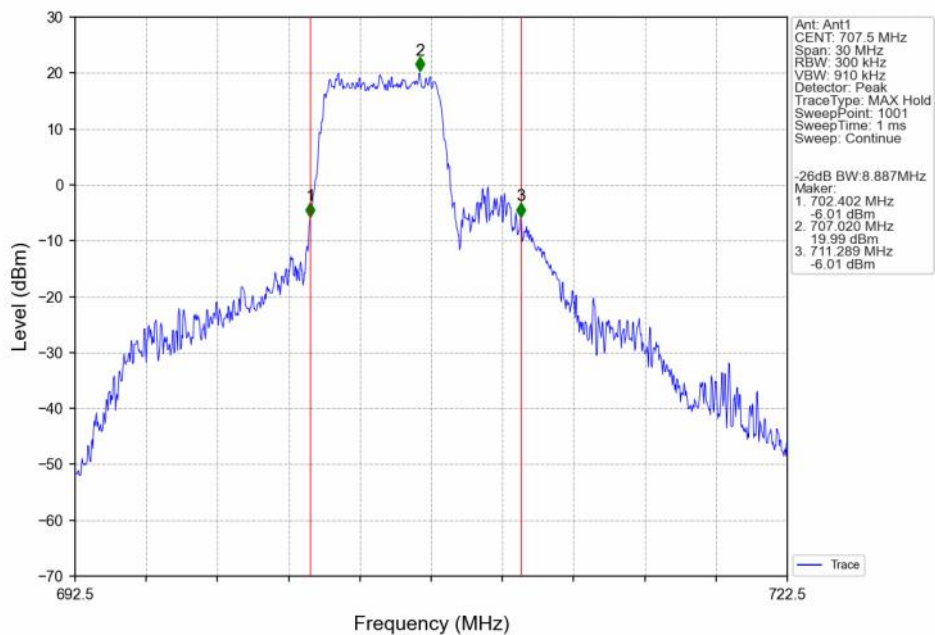
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



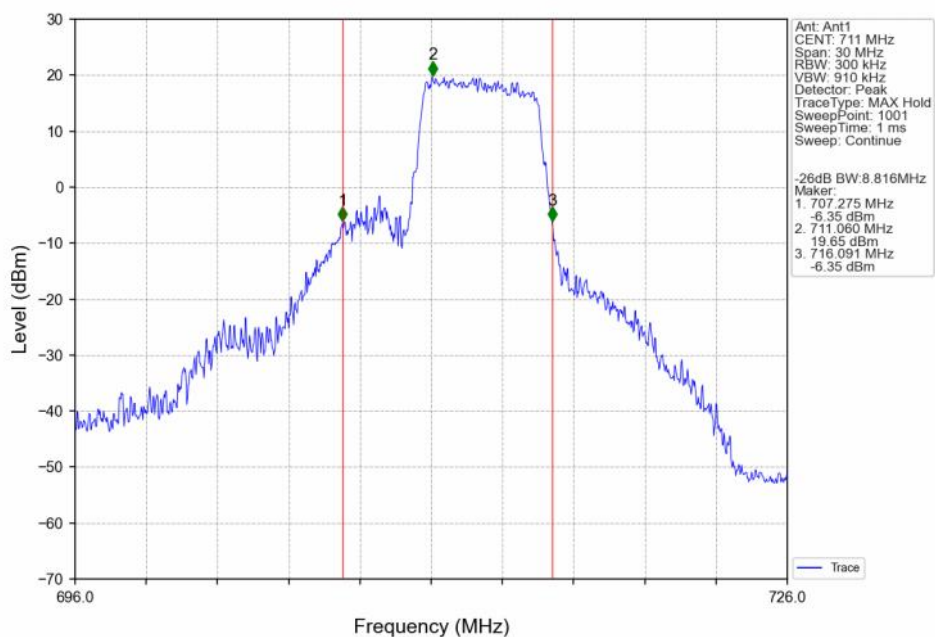
Band12_10MHz_16QAM_LCH_704MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_27_23_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.77	<=13	Pass
	707.5	6	0	4.75	<=13	Pass
	715.3	6	0	4.61	<=13	Pass
16QAM	699.7	6	0	5.85	<=13	Pass
	707.5	6	0	5.81	<=13	Pass
	715.3	6	0	5.66	<=13	Pass

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	4.99	<=13	Pass
	707.5	15	0	4.96	<=13	Pass
	714.5	15	0	4.96	<=13	Pass
16QAM	700.5	15	0	5.98	<=13	Pass
	707.5	15	0	5.92	<=13	Pass
	714.5	15	0	5.94	<=13	Pass

5.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	10.29	<=13	Pass
	707.5	25	0	5.21	<=13	Pass
	713.5	25	0	5.14	<=13	Pass
16QAM	701.5	25	0	6.09	<=13	Pass
	707.5	25	0	6.11	<=13	Pass
	713.5	25	0	6.07	<=13	Pass

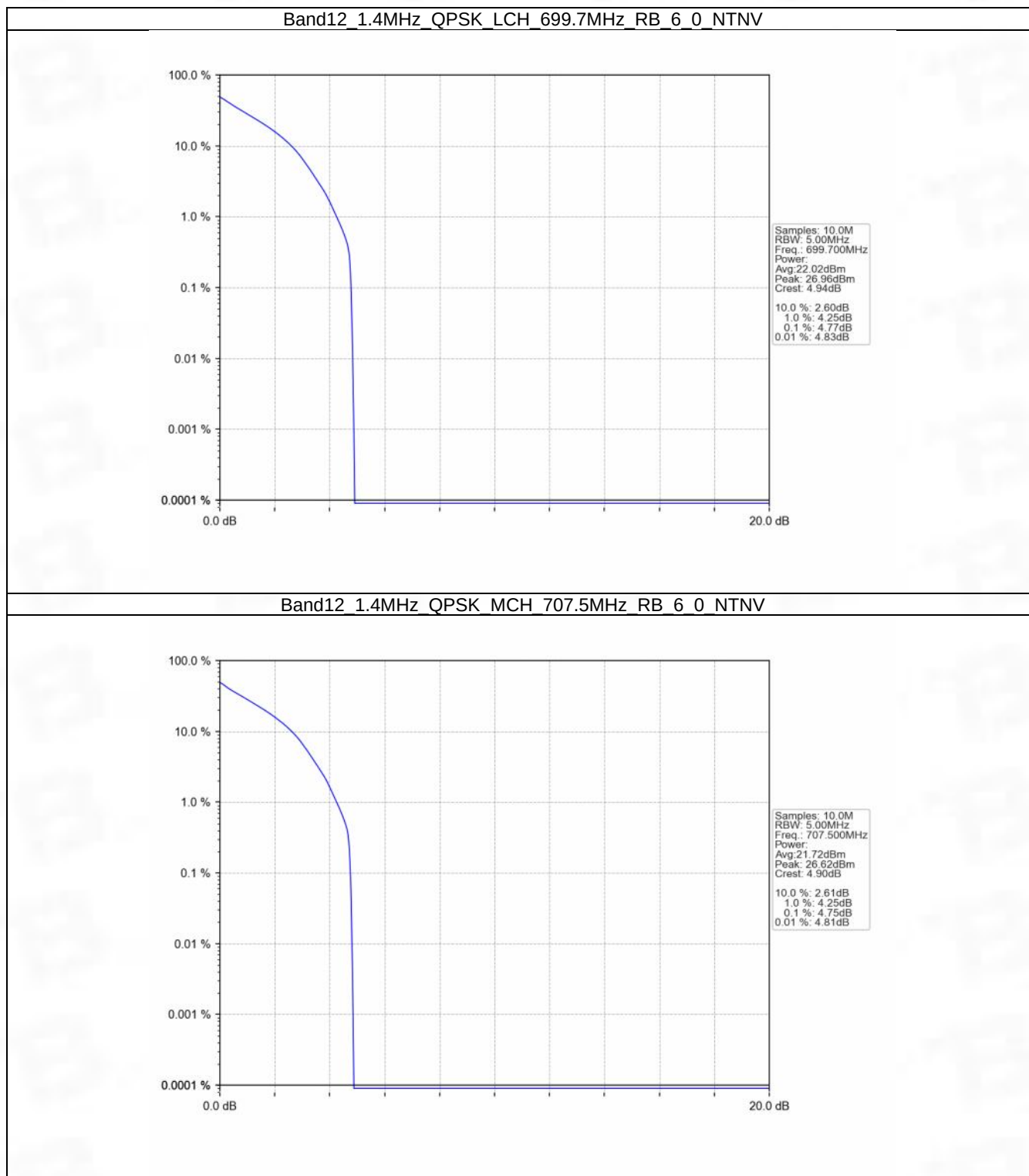
5.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.23	<=13	Pass
	707.5	50	0	5.28	<=13	Pass
	711	50	0	5.02	<=13	Pass
16QAM	704	27	0	5.99	<=13	Pass
	707.5	27	0	6.03	<=13	Pass

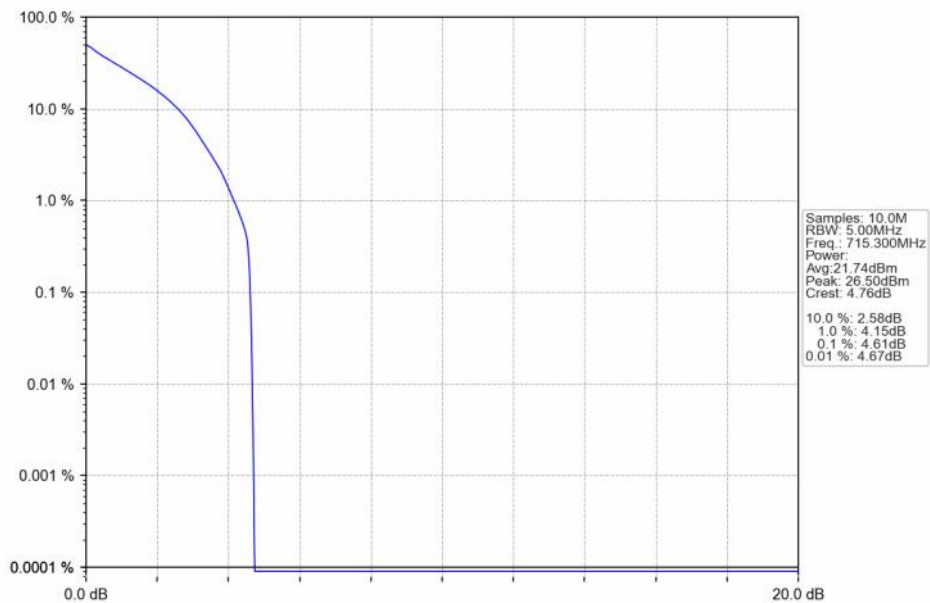
	711	27	23	5.95	<=13	Pass
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5.2 Test Graph

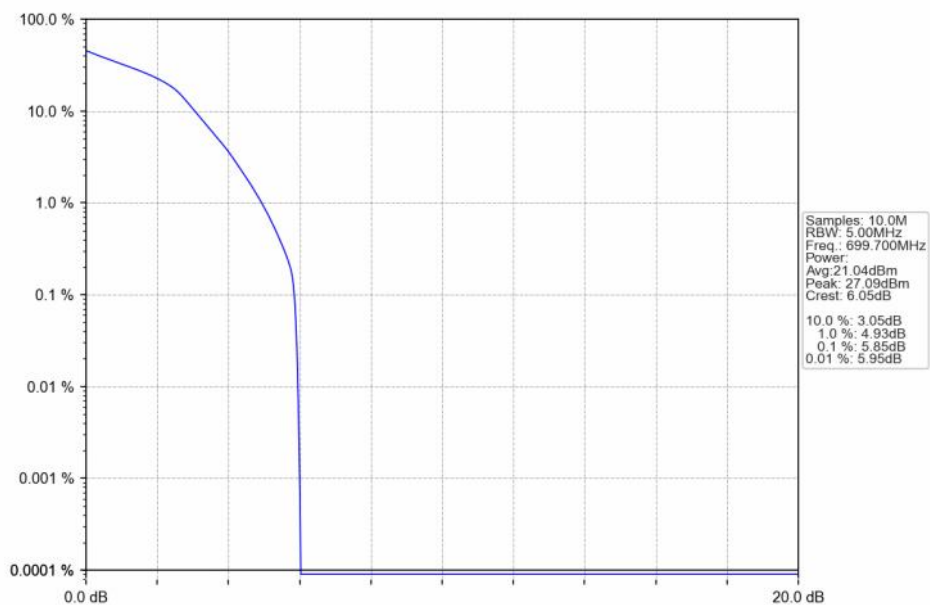
5.2.1 B12_1.4MHz



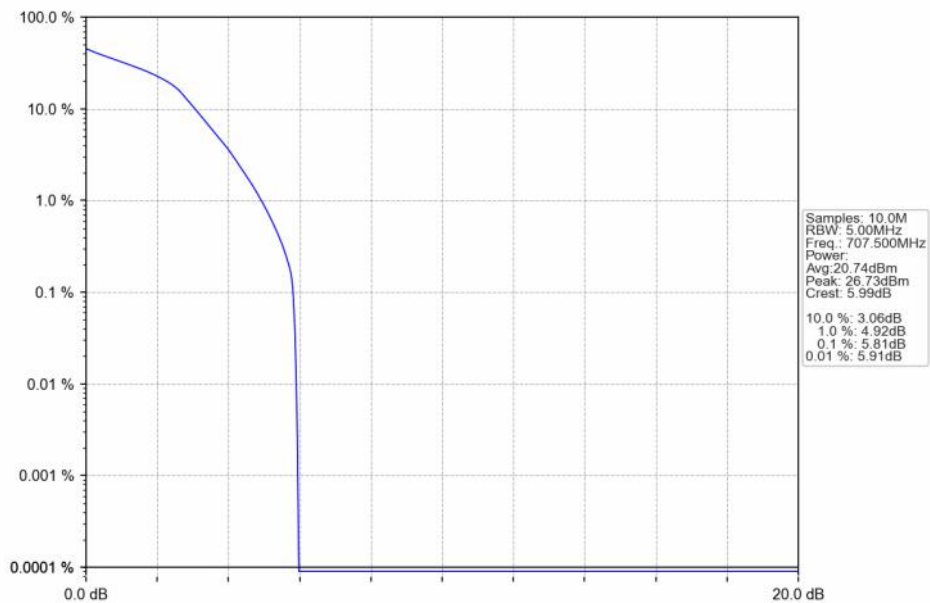
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



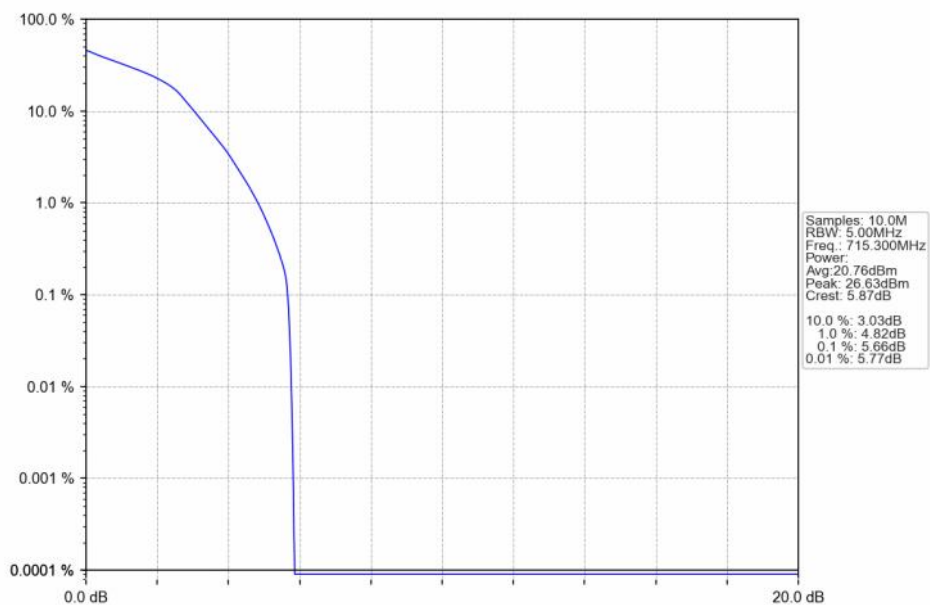
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV

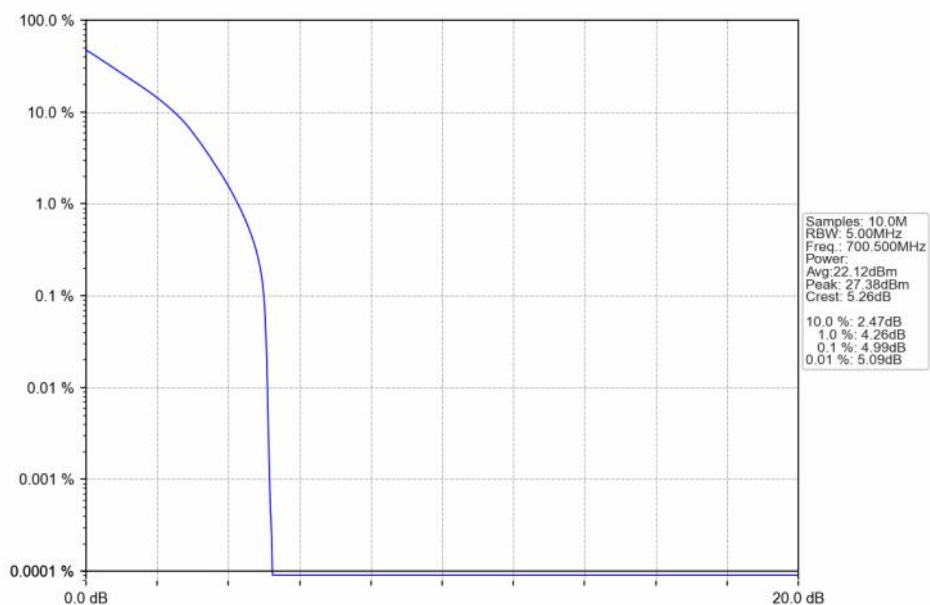


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV

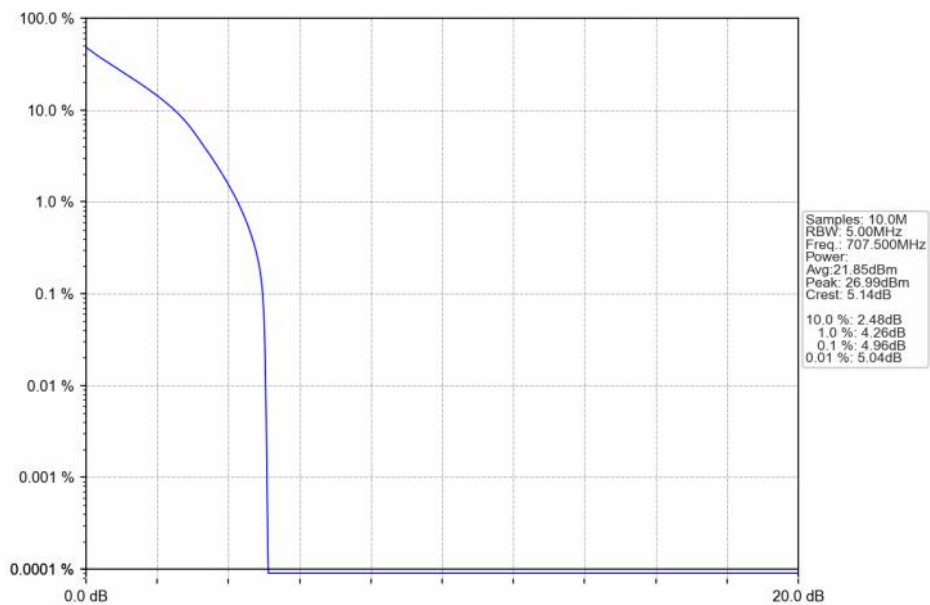


5.2.2 B12_3MHz

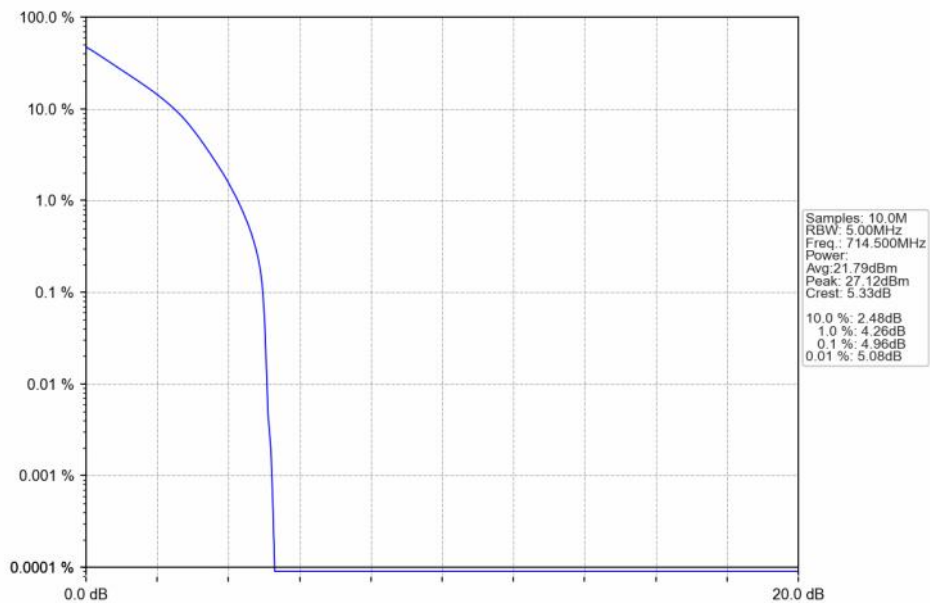
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



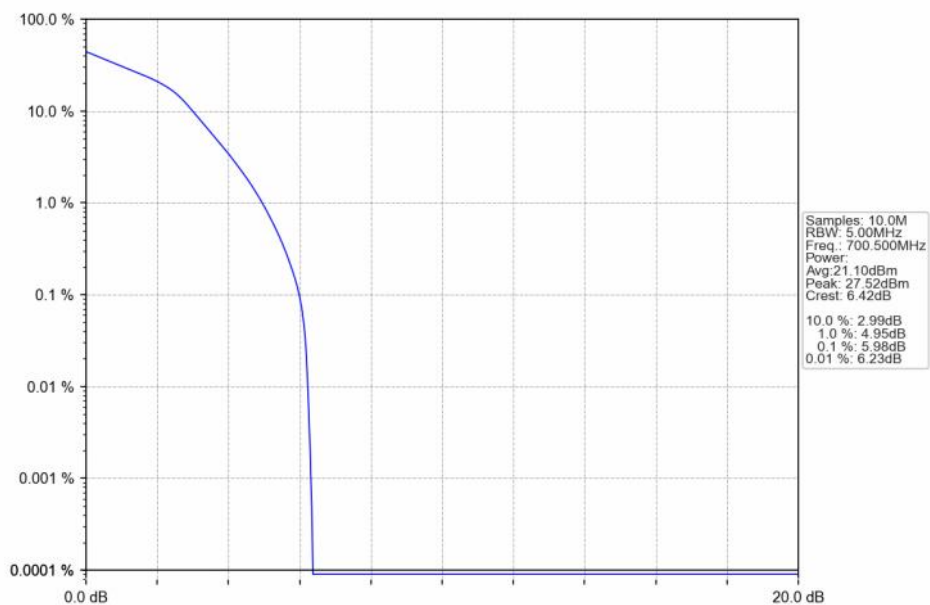
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



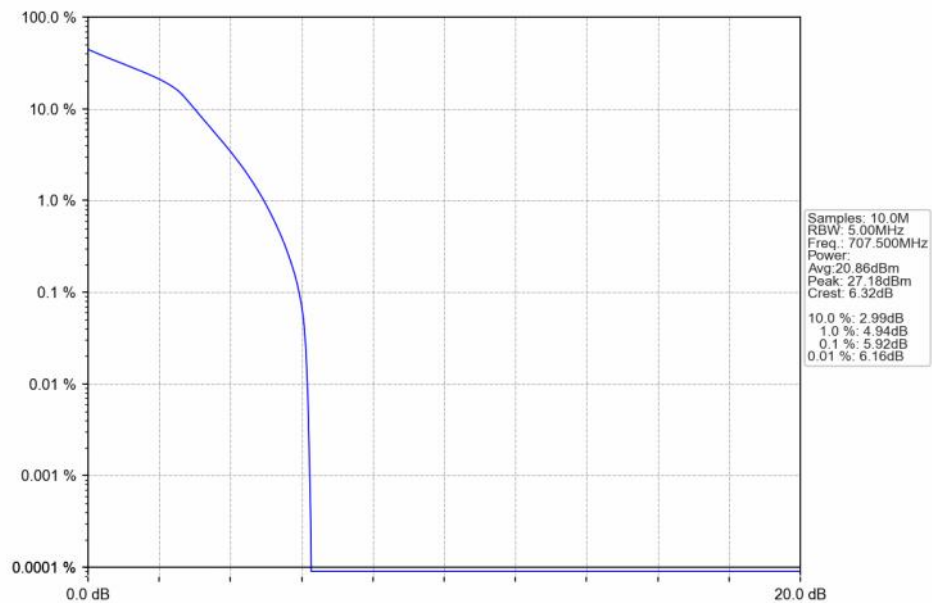
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



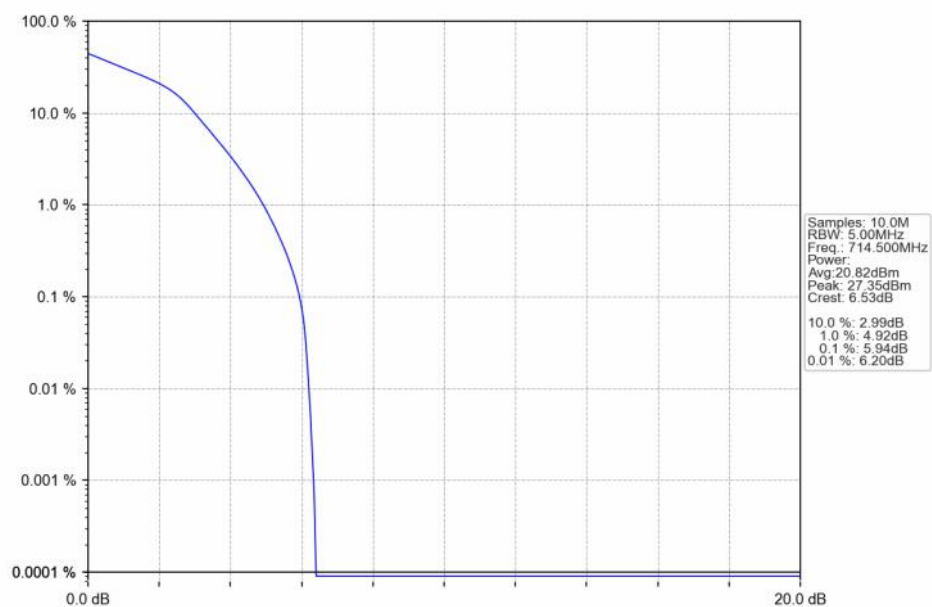
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



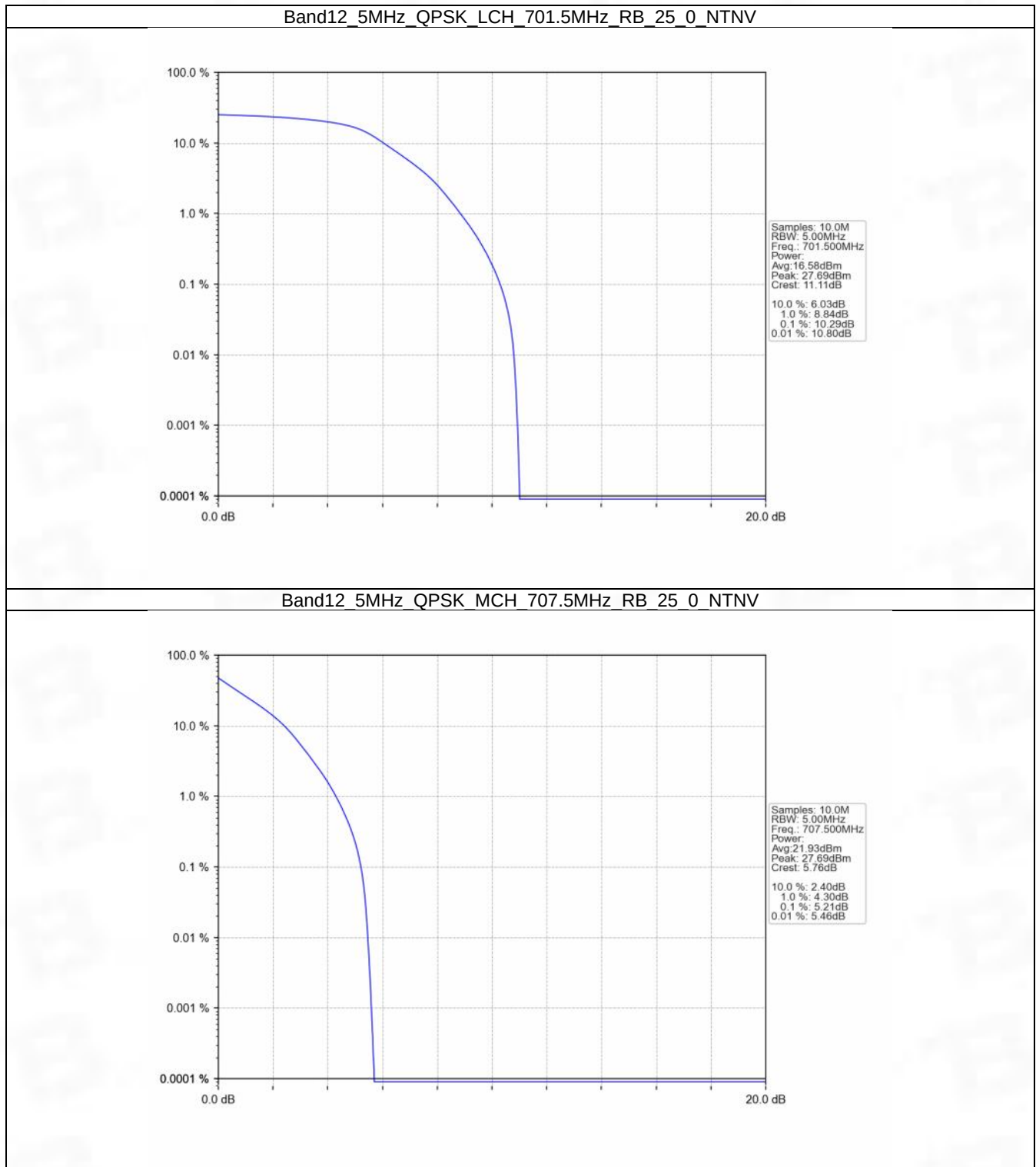
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



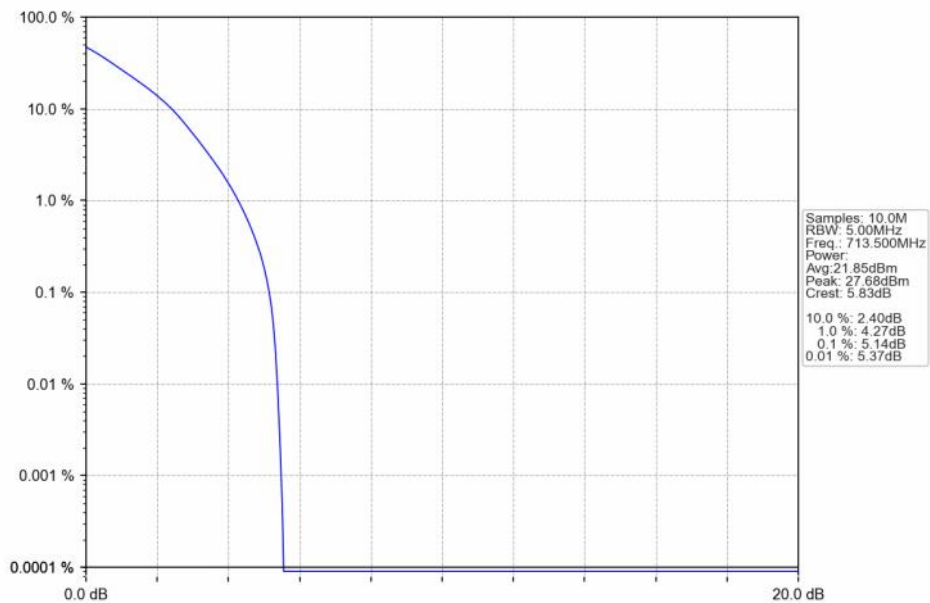
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



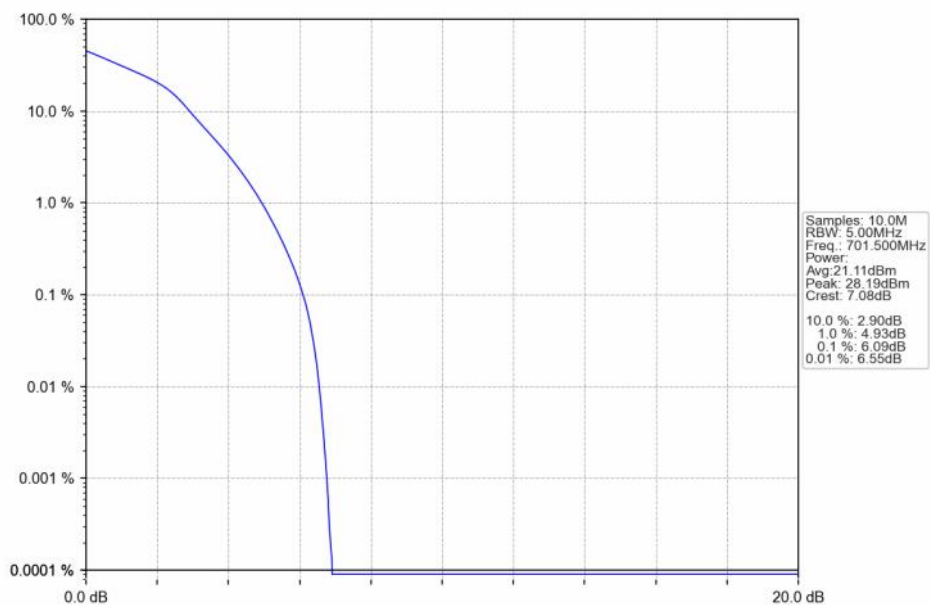
5.2.3 B12_5MHz



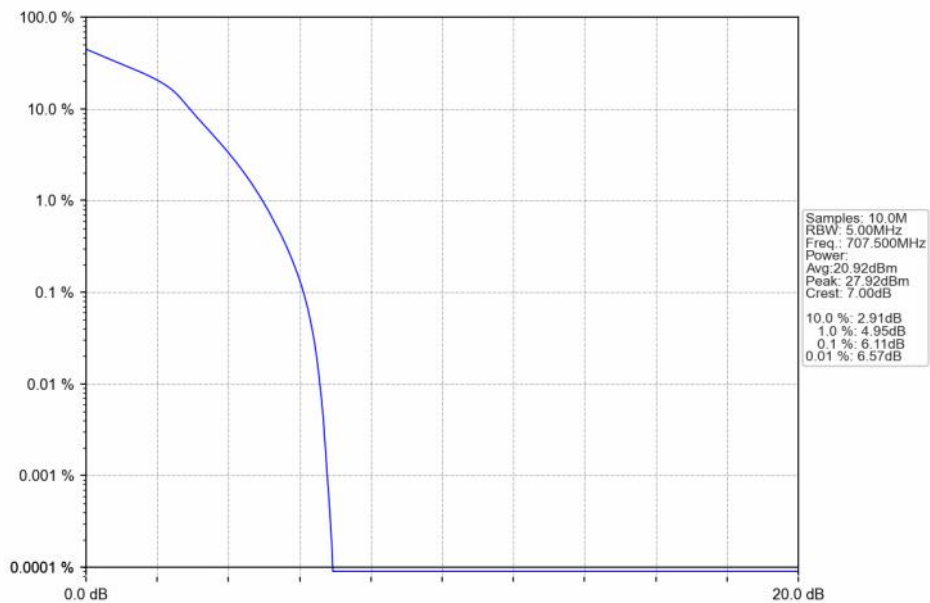
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTN



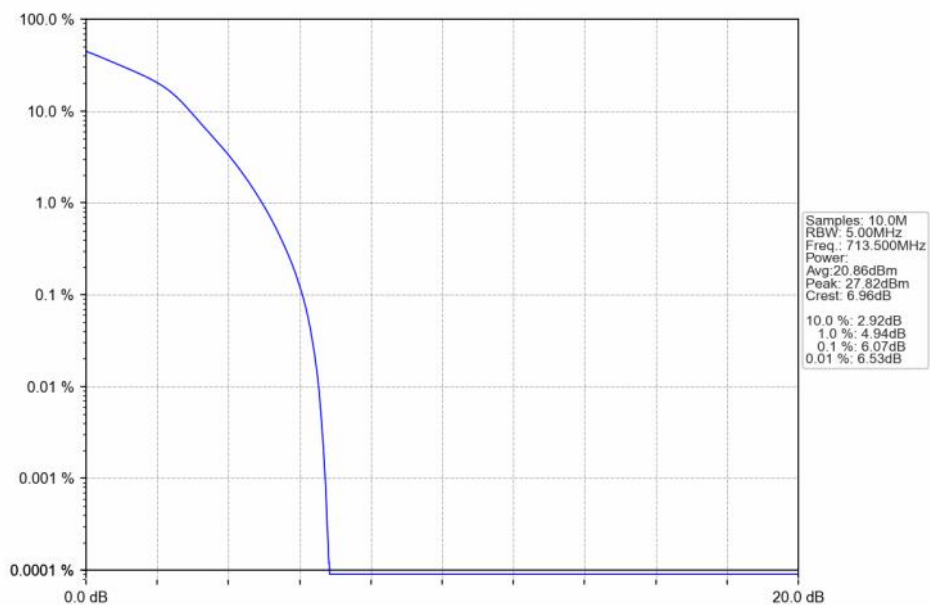
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTN



Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV

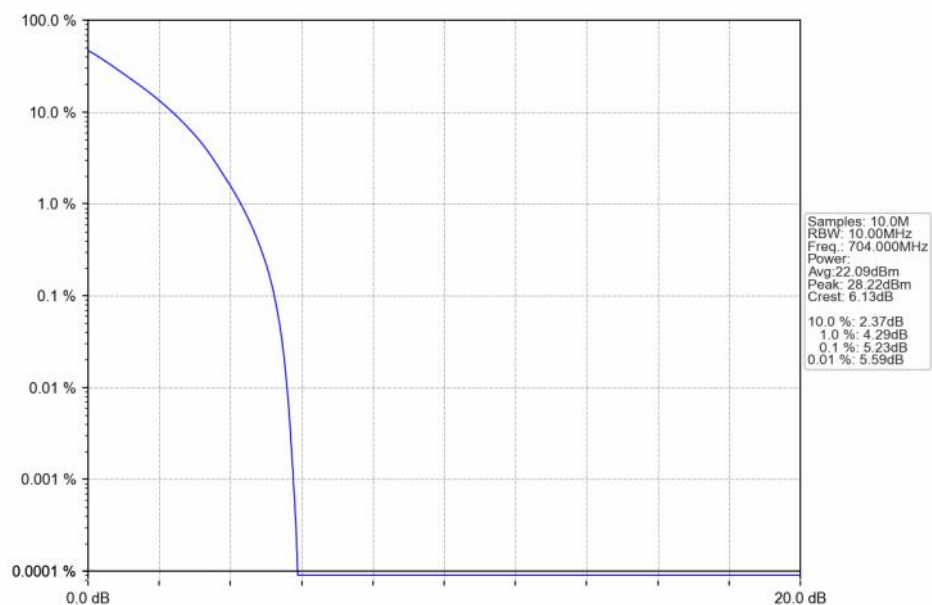


Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV

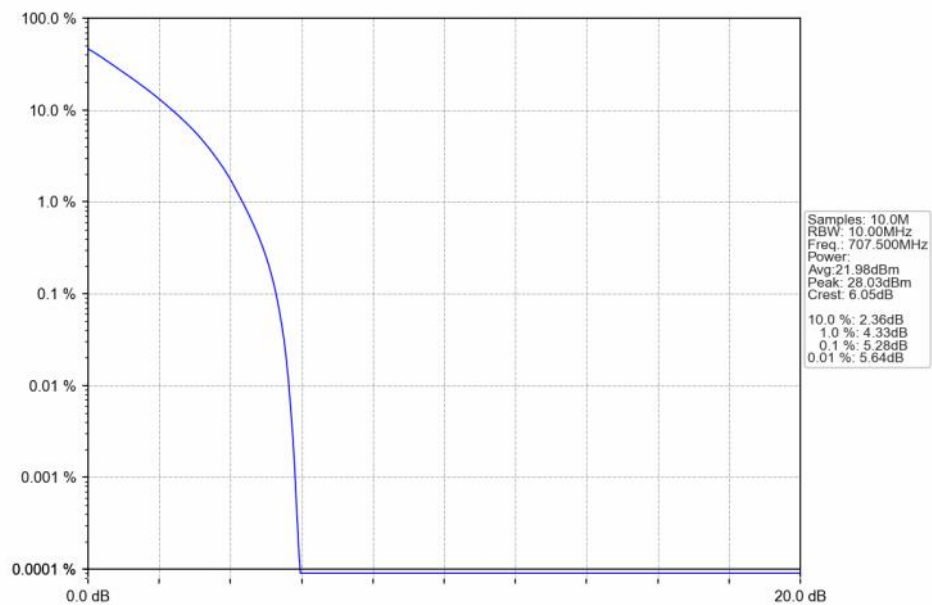


5.2.4 B12_10MHz

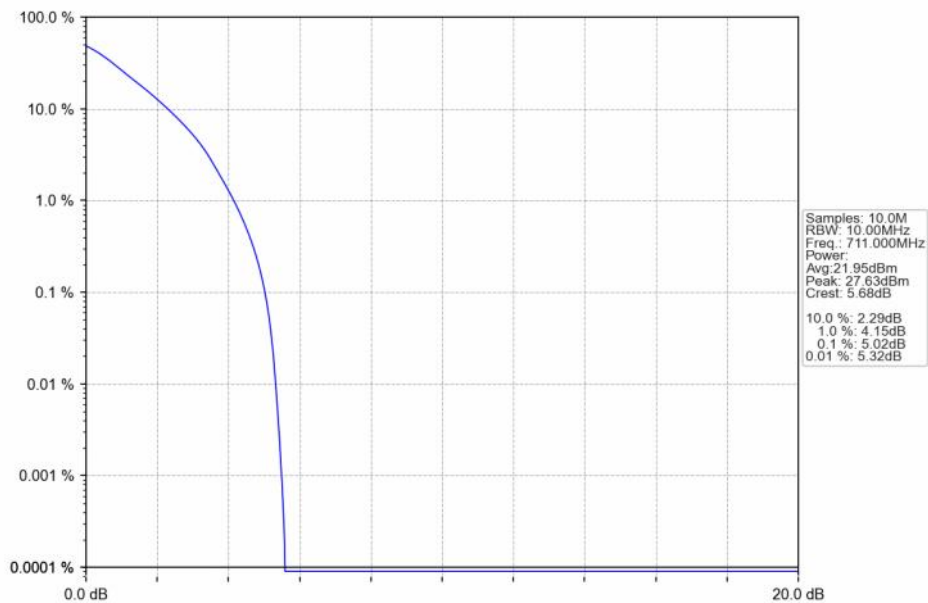
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



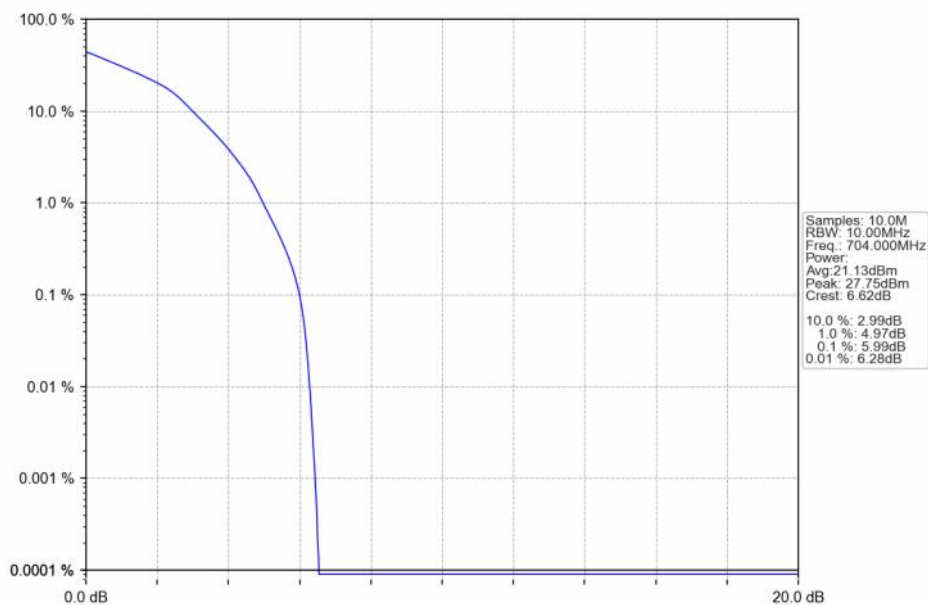
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



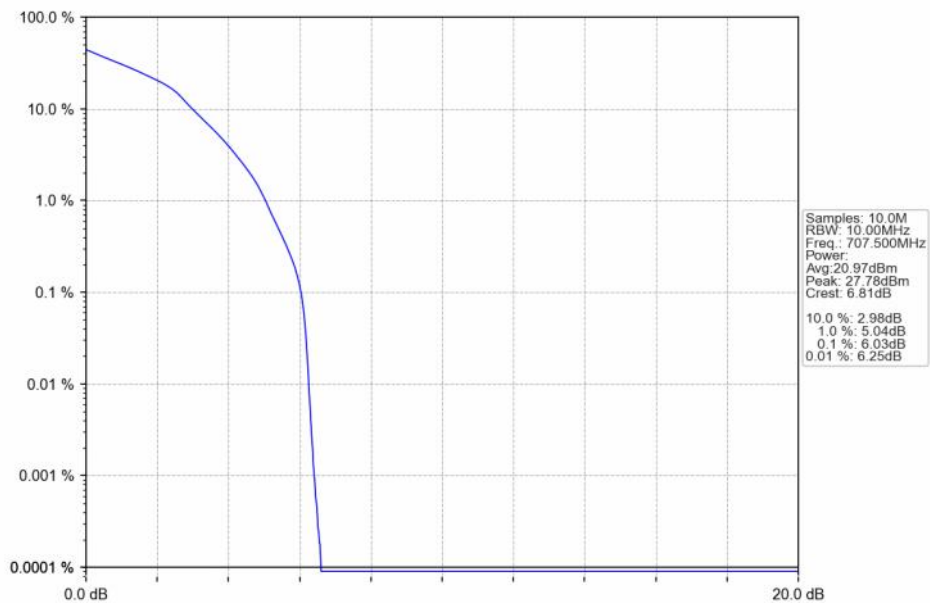
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



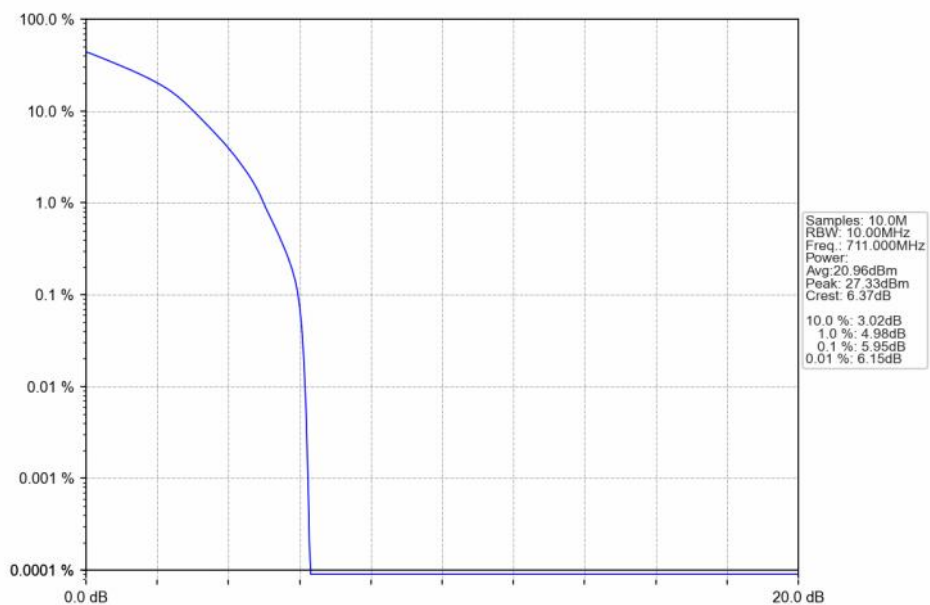
Band12_10MHz_16QAM_LCH_704MHz_RB_27_0_NTNV



Band12 10MHz 16QAM MCH 707.5MHz RB 27 0 NTNV



Band12 10MHz 16QAM HCH 711MHz RB 27 23 NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	715.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	715.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

6.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	714.5	1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	714.5	1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

6.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	713.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	701.5	1	0	Refer To Test Graph		Pass

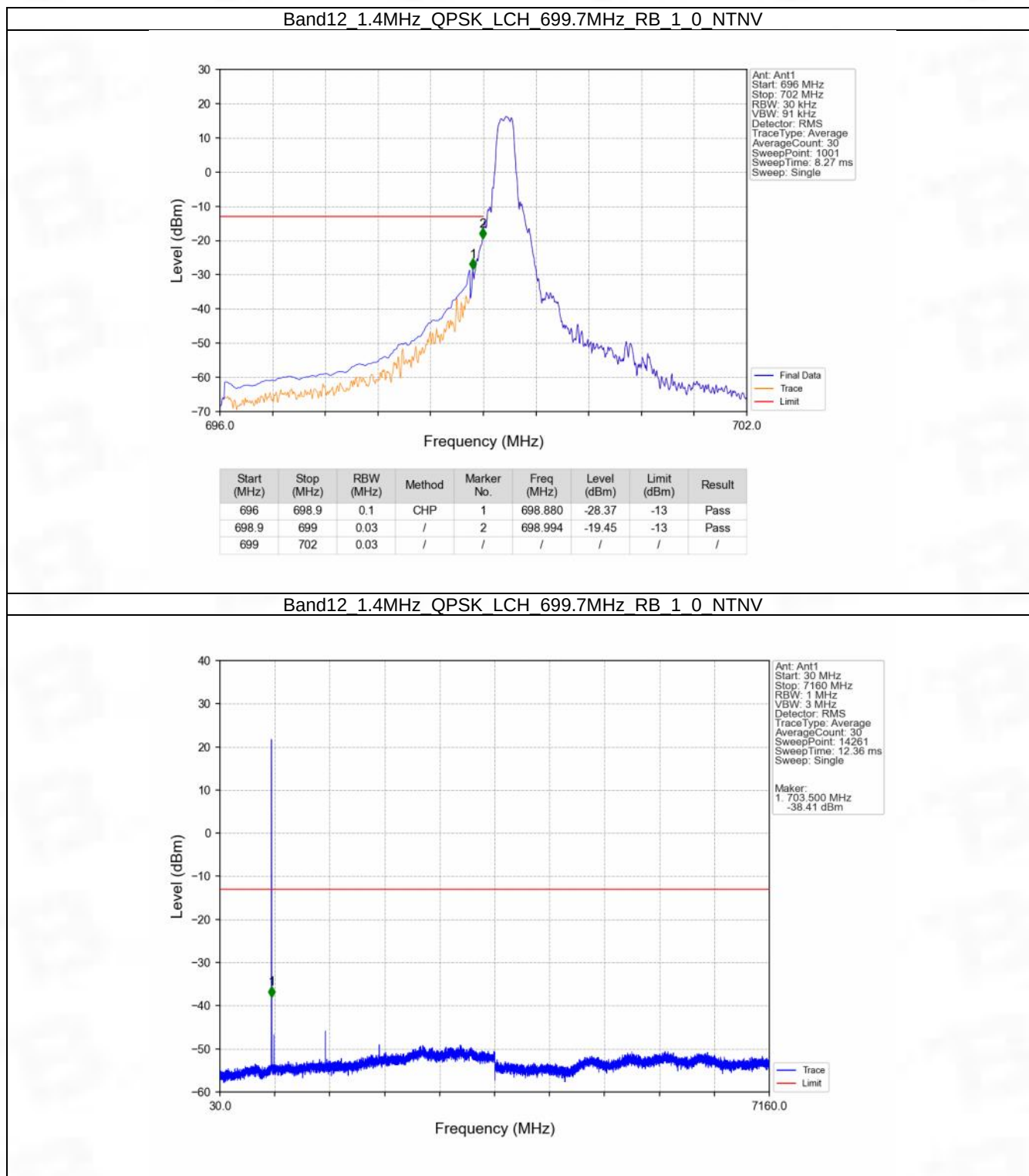
		25	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

6.1.4 B12_10MHz

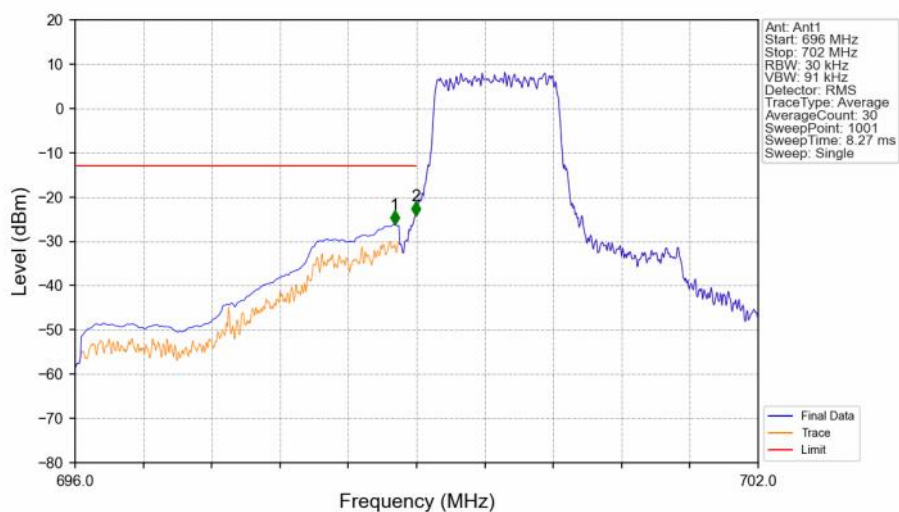
Band: 12 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	704	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	711	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
16QAM	704	1	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	711	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass

6.2 Test Graph

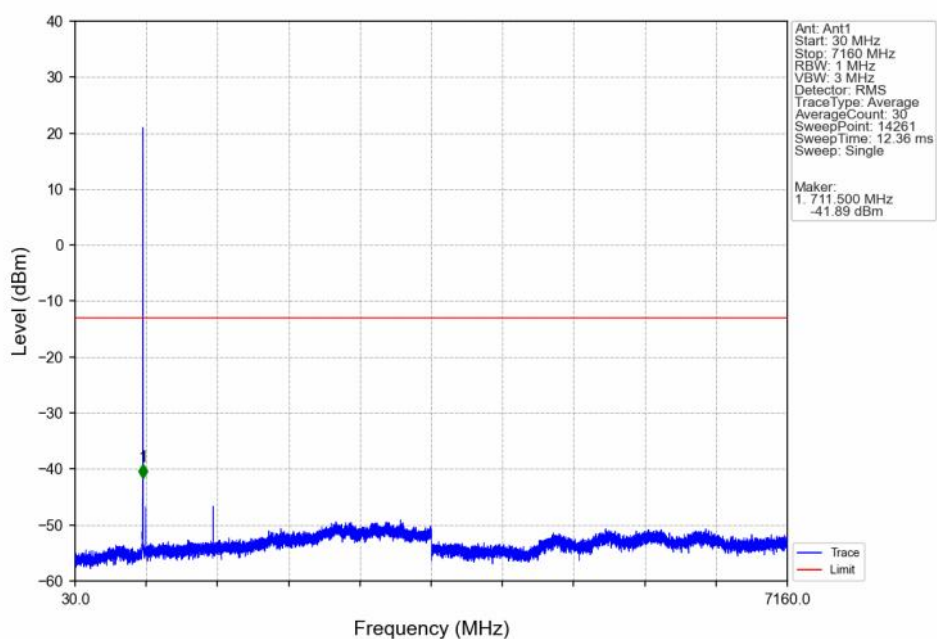
6.2.1 B12_1.4MHz



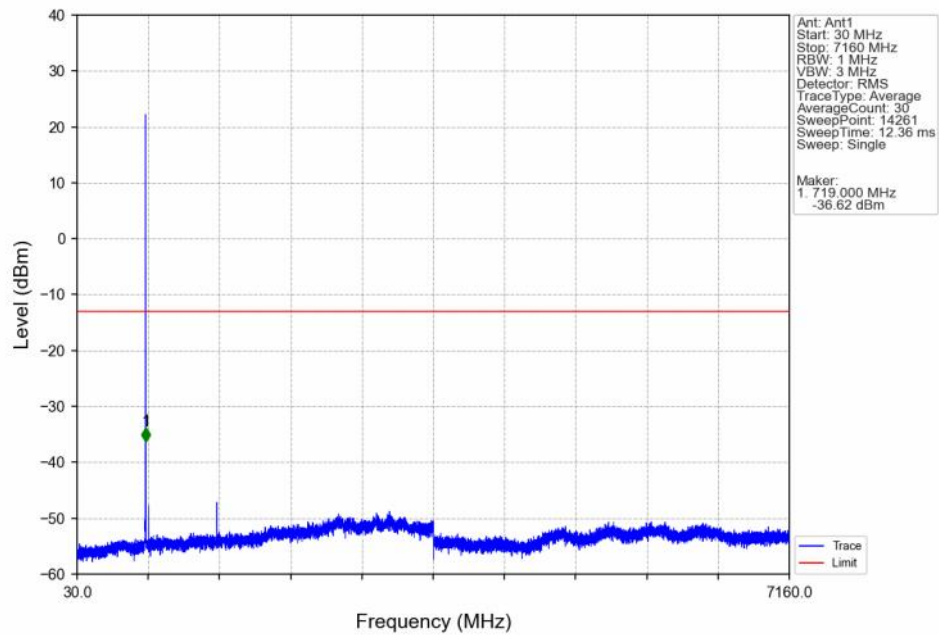
Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTNV



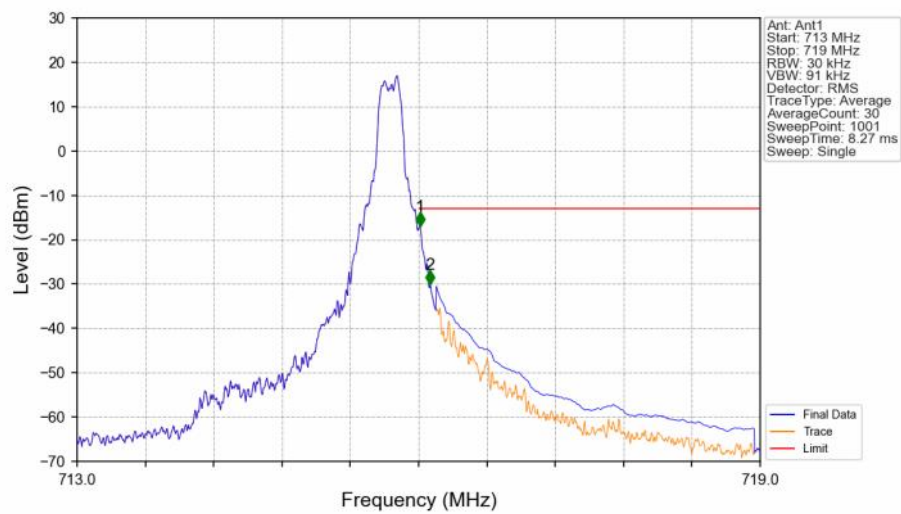
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTNV

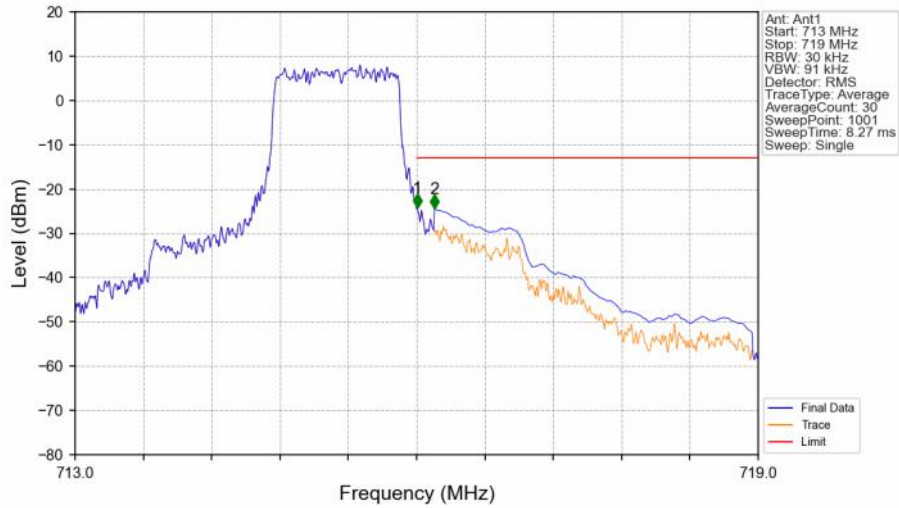


Band12 1.4MHz QPSK HCH 715.3MHz RB 1 5 NTNV



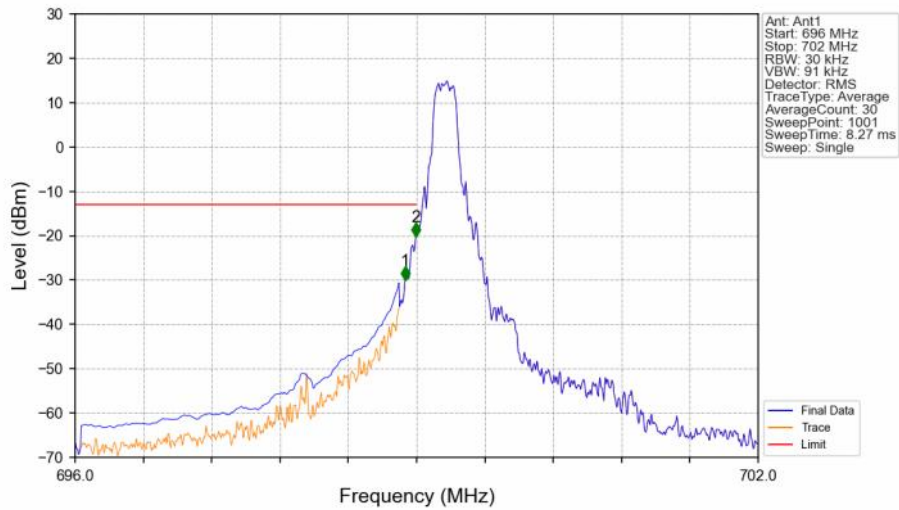
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	1	/	/	/	/
716	716.1	0.03	/	1	716.012	-17.00	-13	Pass
716.1	719	0.1	CHP	2	716.102	-30.06	-13	Pass

Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



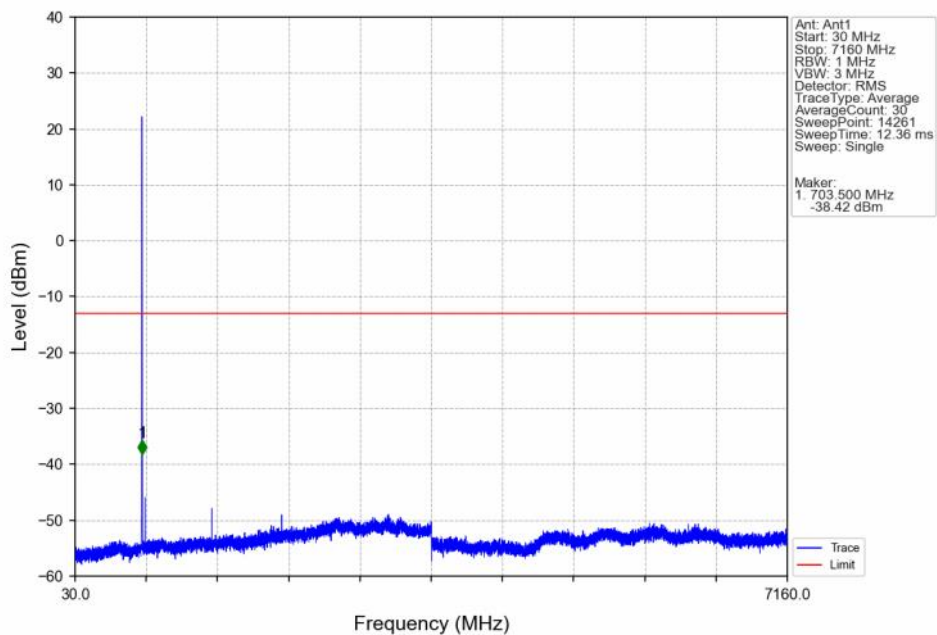
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-24.25	-13	Pass
716.1	719	0.1	CHP	2	716.156	-24.35	-13	Pass

Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV

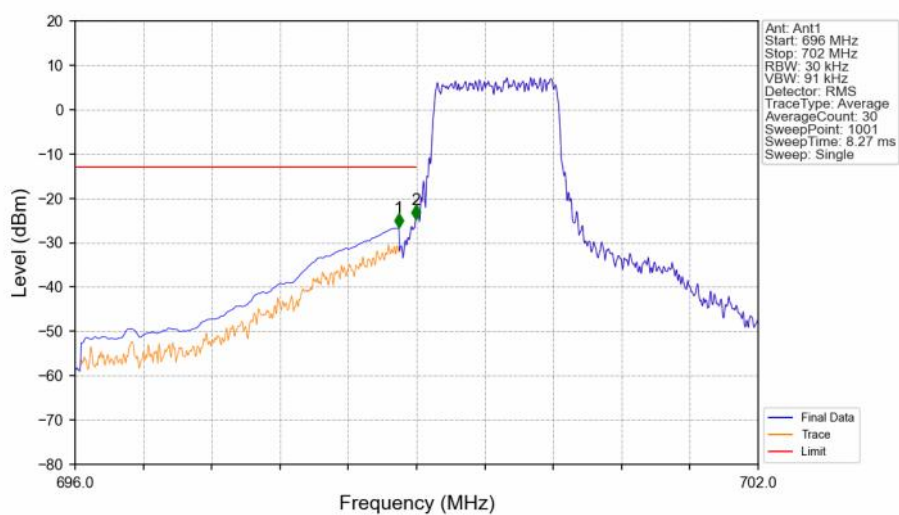


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.898	-30.06	-13	Pass
698.9	699	0.03	/	2	698.994	-20.22	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV

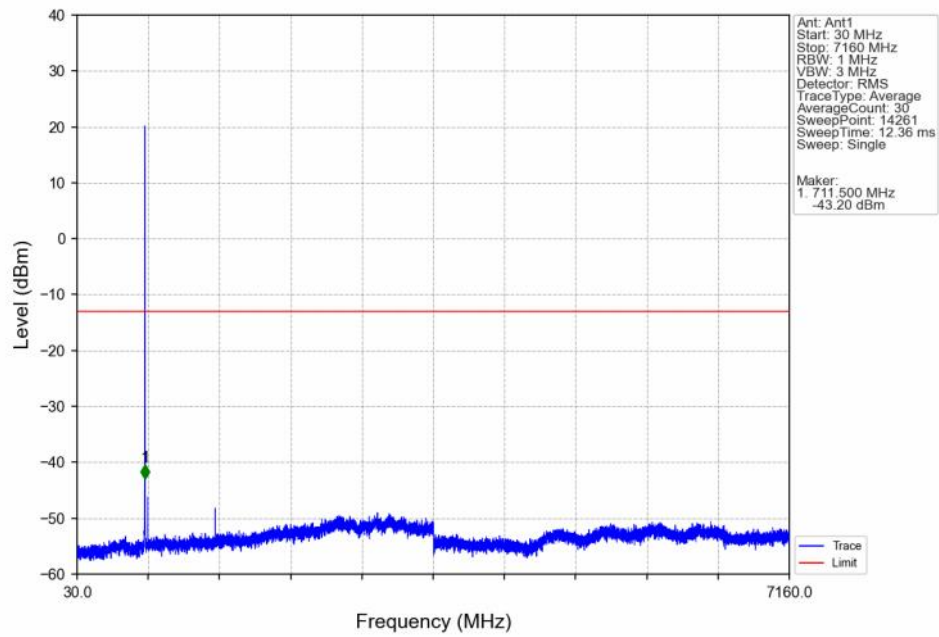


Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV

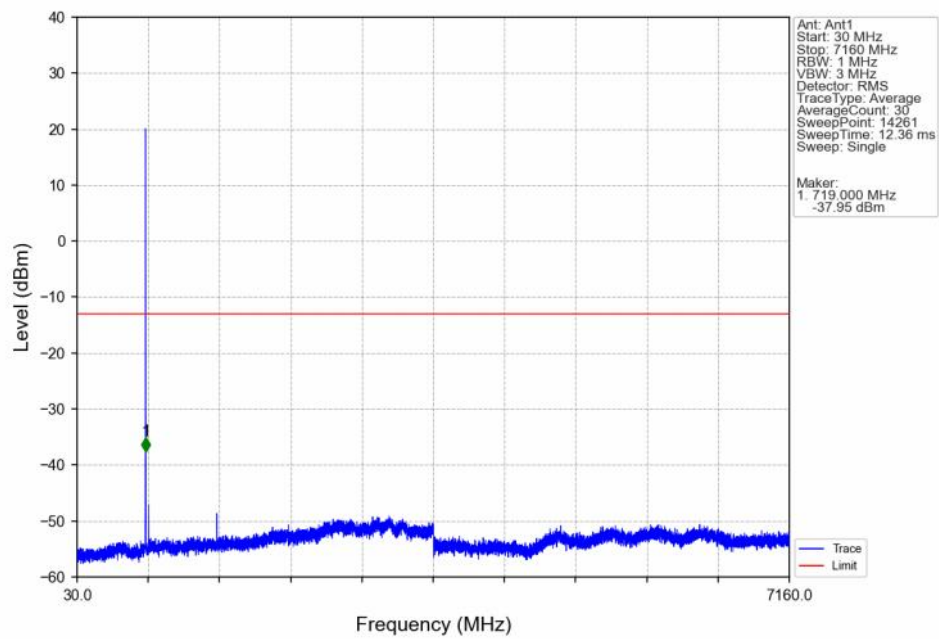


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-26.66	-13	Pass
698.9	699	0.03	/	2	698.994	-24.76	-13	Pass
699	702	0.03	/	/	/	/	/	/

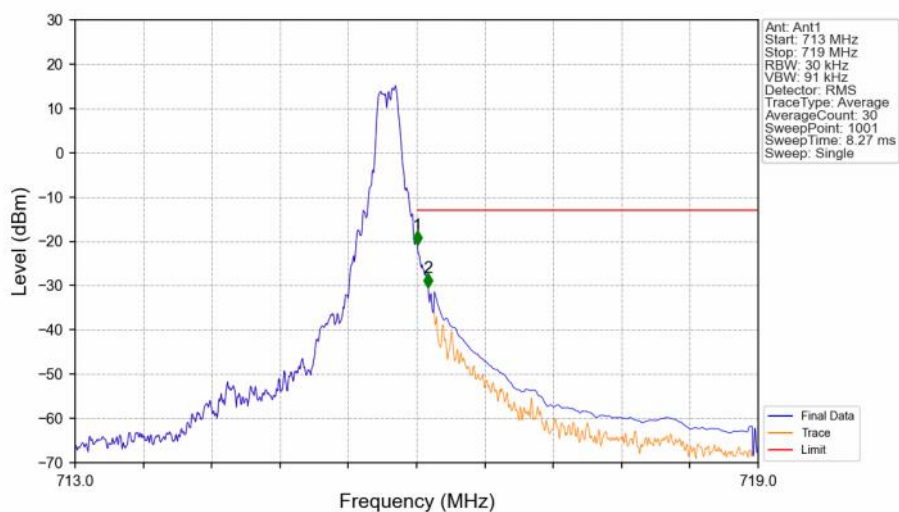
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTNV

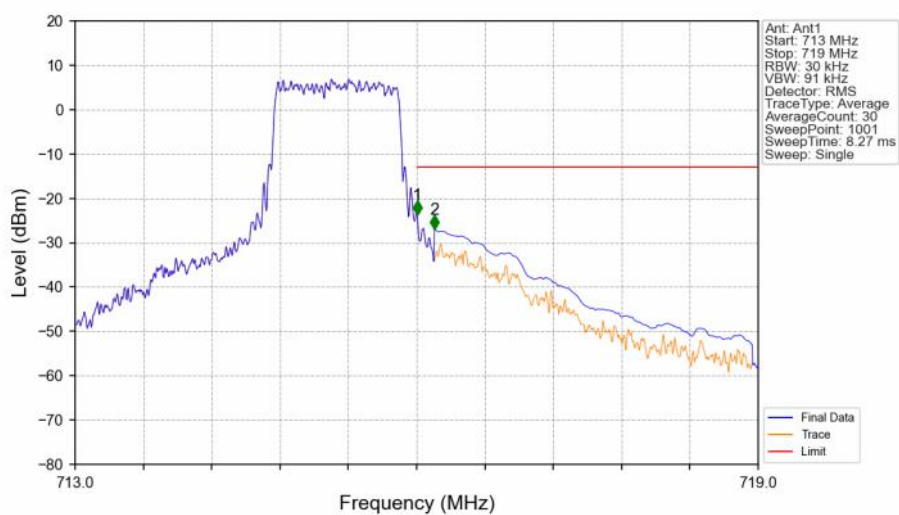


Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 5 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-20.83	-13	Pass
716.1	719	0.1	CHP	2	716.102	-30.45	-13	Pass

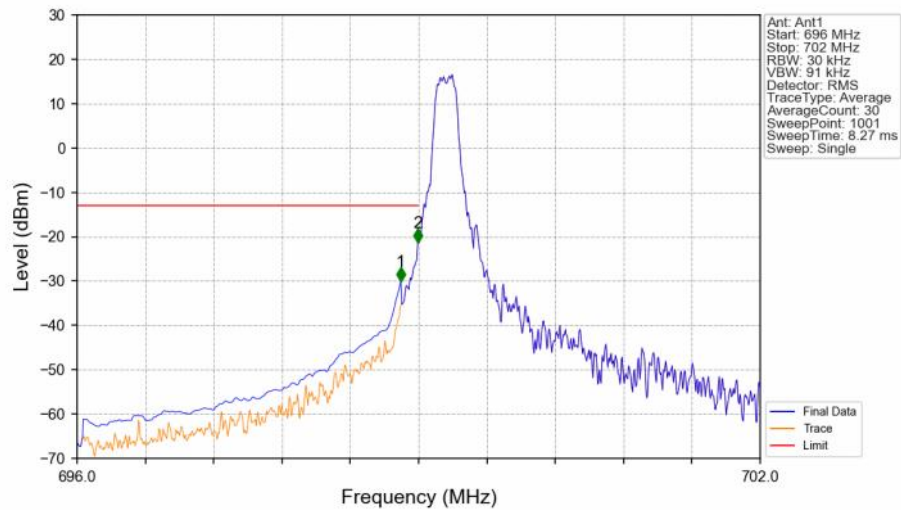
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



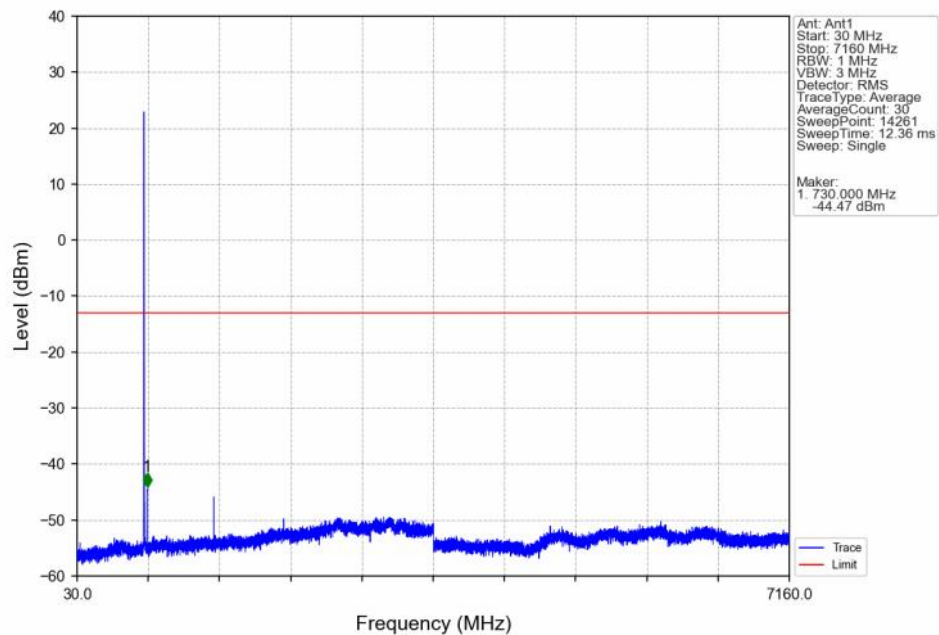
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-23.64	-13	Pass
716.1	719	0.1	CHP	2	716.156	-26.93	-13	Pass

6.2.2 B12_3MHz

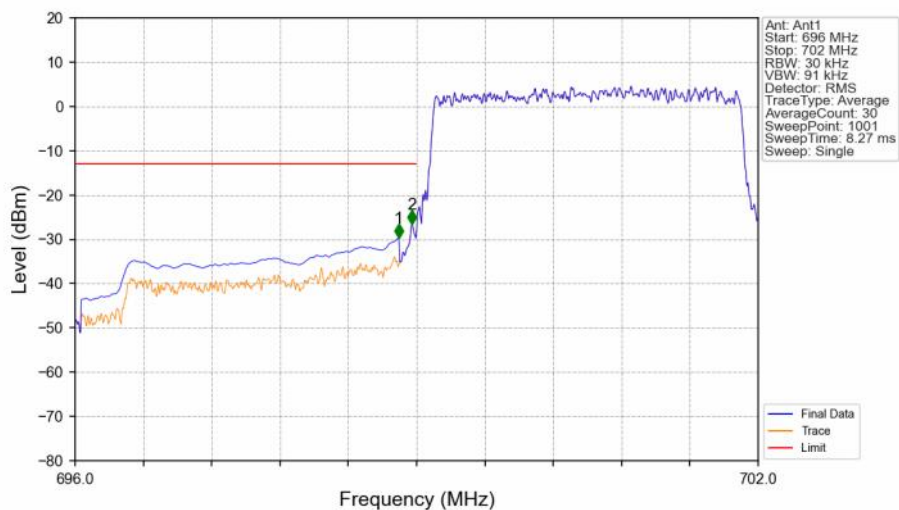
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

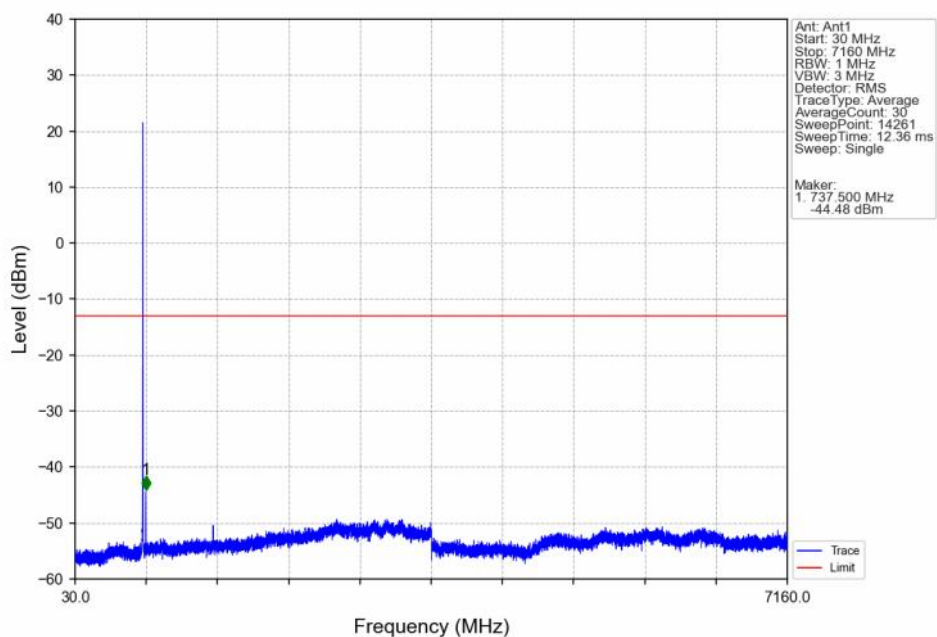


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

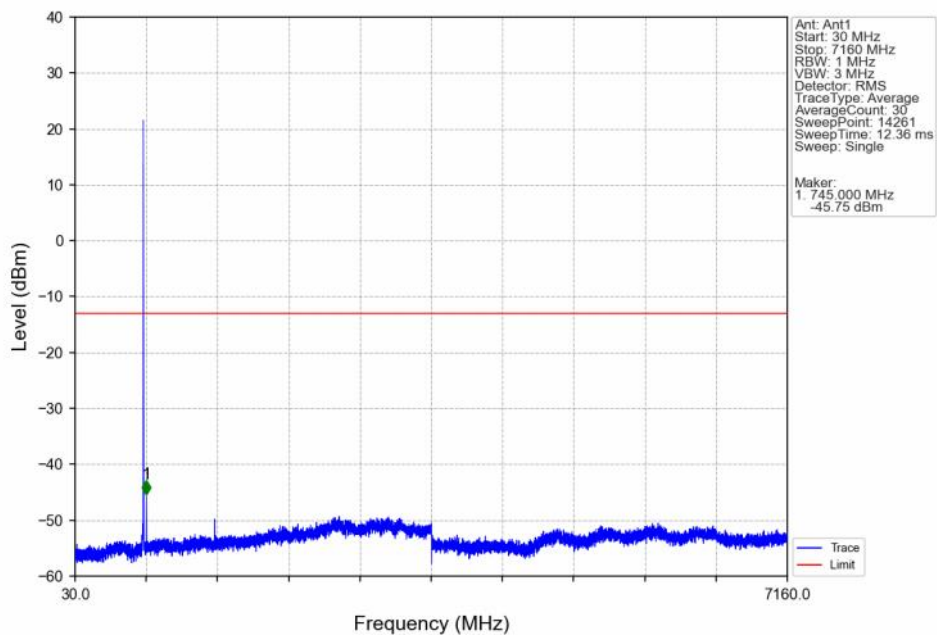


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-29.68	-13	Pass
698.9	699	0.03	/	2	698.958	-26.59	-13	Pass
699	702	0.03	/	/	/	/	/	/

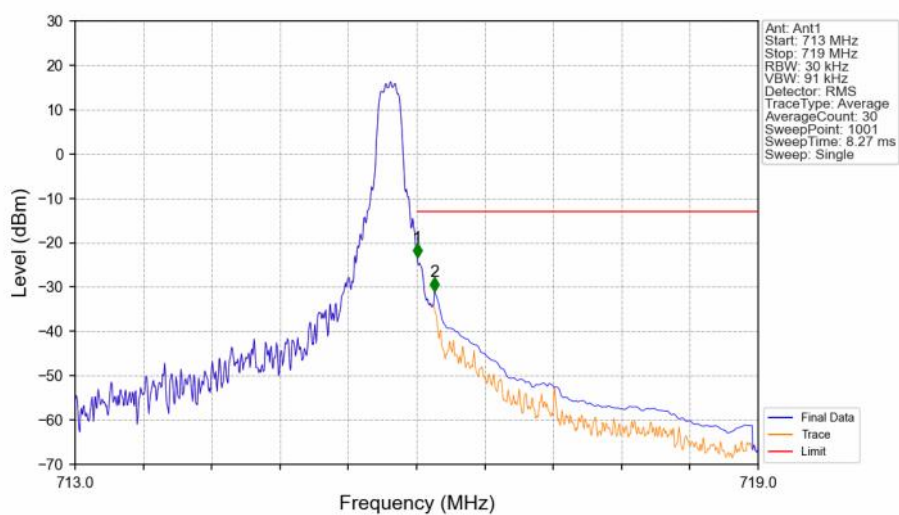
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTNV

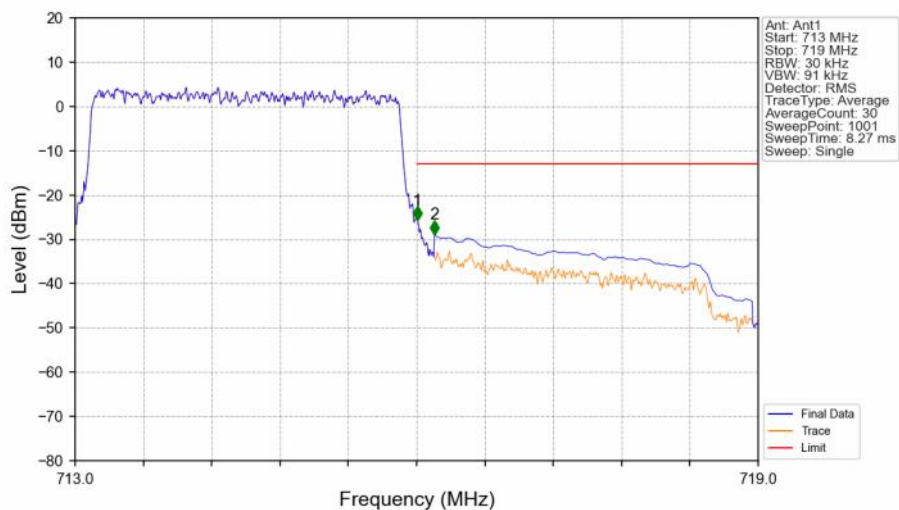


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



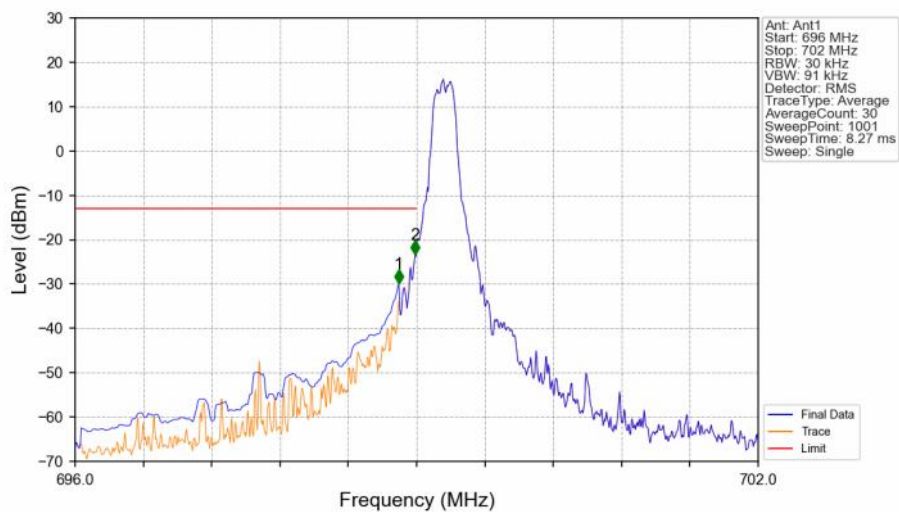
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-23.23	-13	Pass
716.1	719	0.1	CHP	2	716.156	-30.99	-13	Pass

Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTV



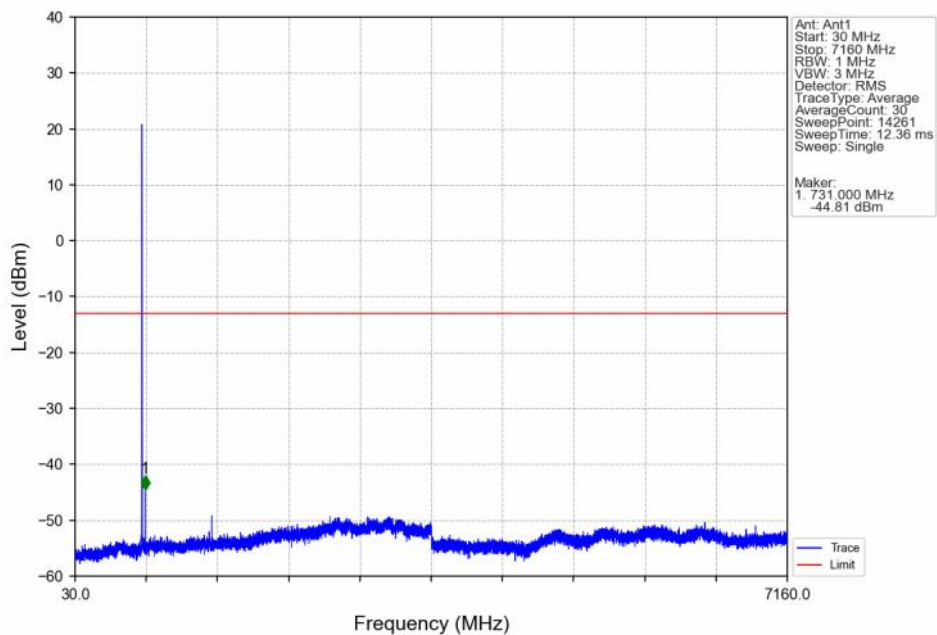
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-25.65	-13	Pass
716.1	719	0.1	CHP	2	716.156	-28.85	-13	Pass

Band12 3MHz 16QAM LCH 700.5MHz RB 1 0 NTV

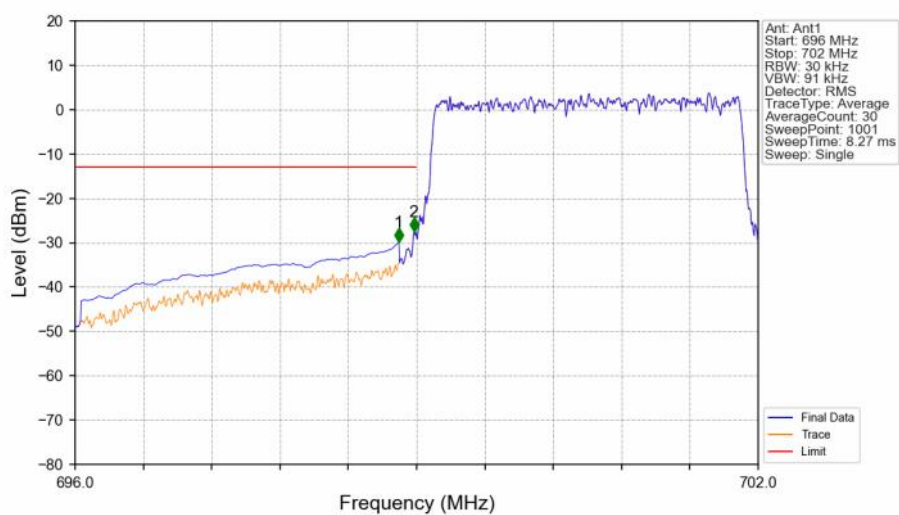


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-29.92	-13	Pass
698.9	699	0.03	/	2	698.988	-23.31	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

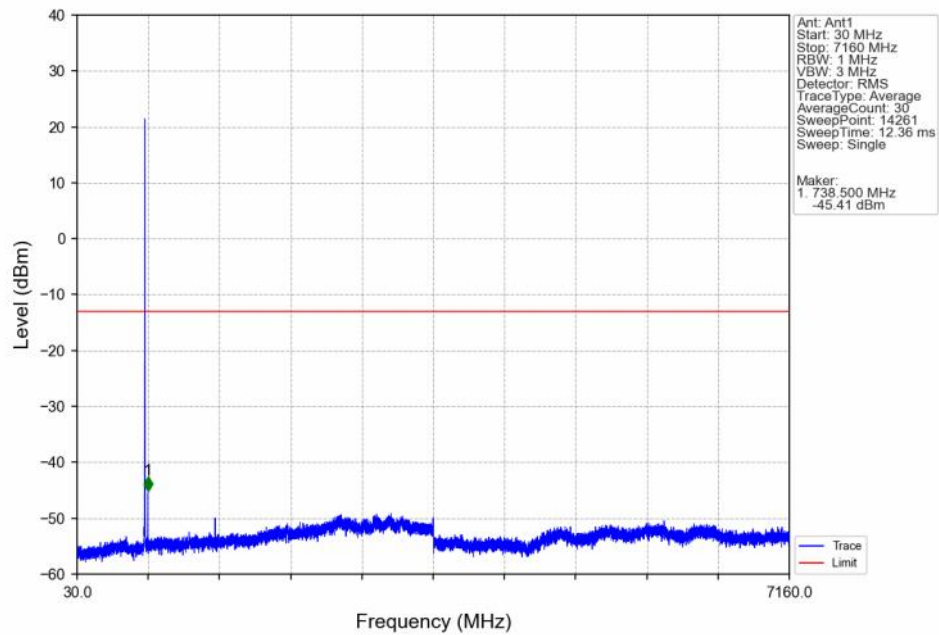


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

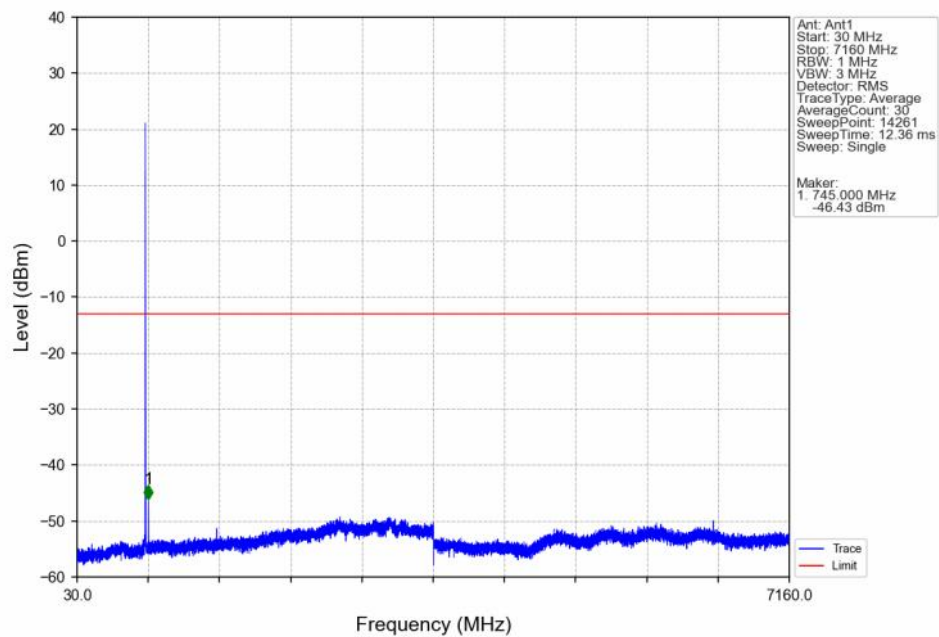


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-29.92	-13	Pass
698.9	699	0.03	/	2	698.976	-27.49	-13	Pass
699	702	0.03	/	/	/	/	/	/

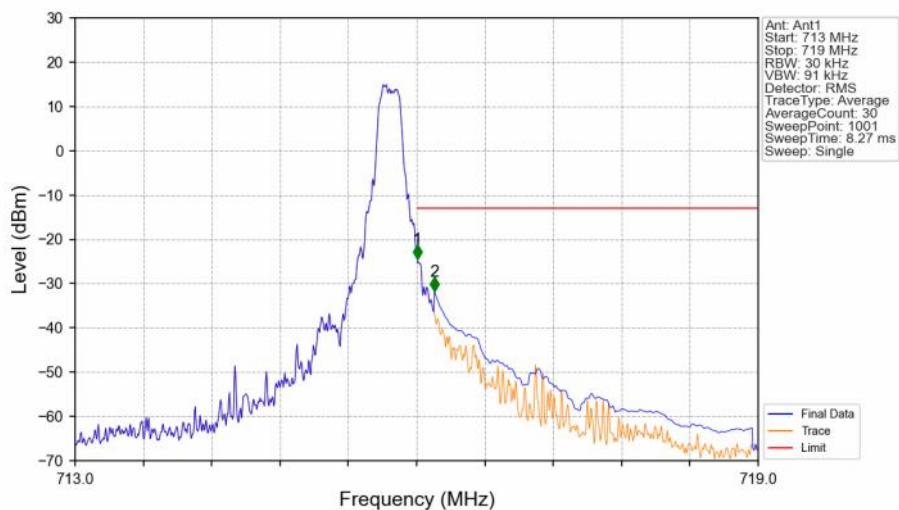
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



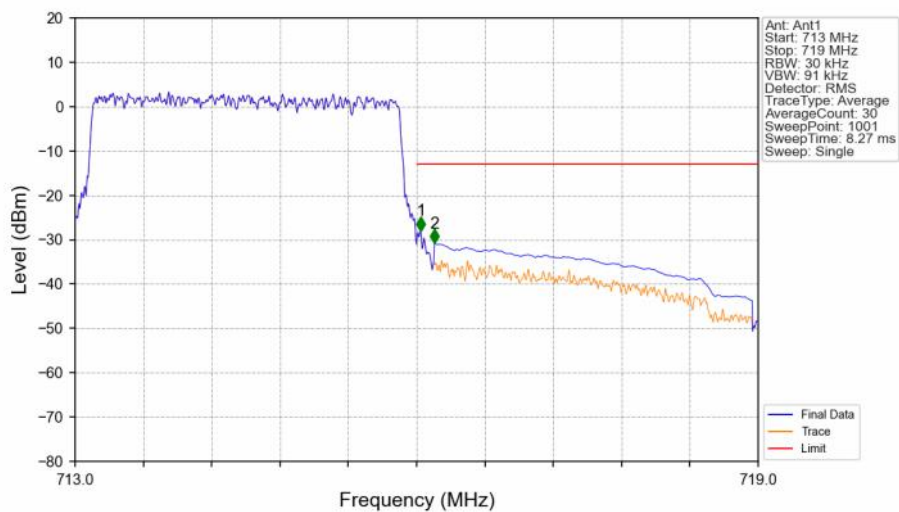
Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



Band12 3MHz 16QAM HCH 714.5MHz RB 1 14 NTV

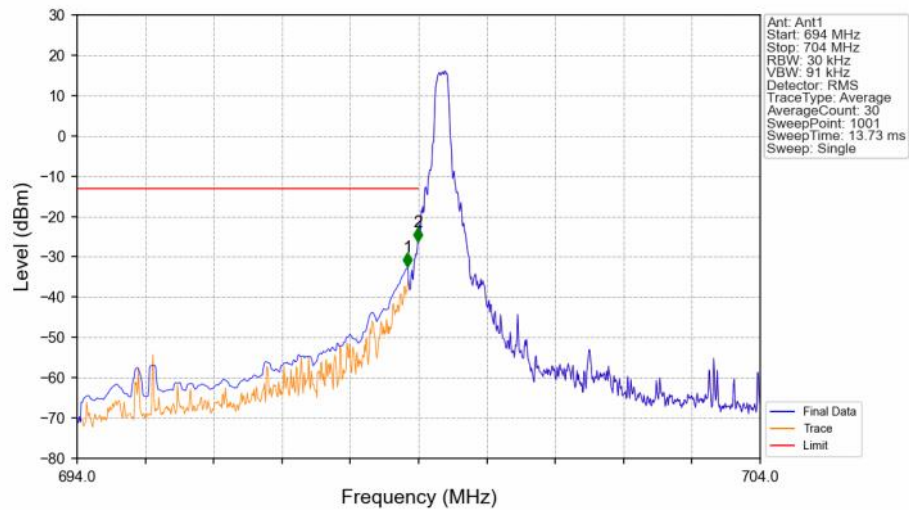


Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTV

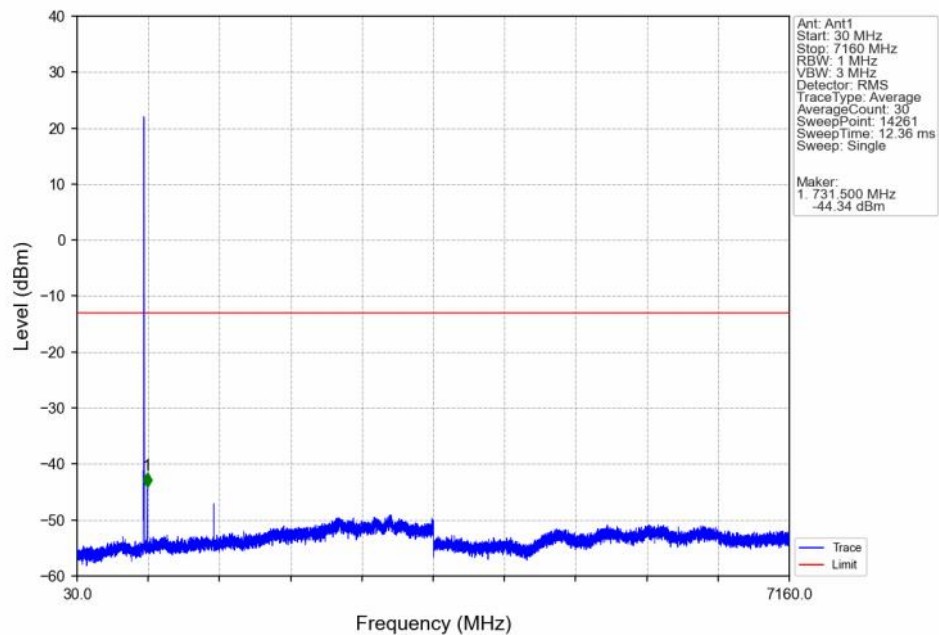


6.2.3 B12_5MHz

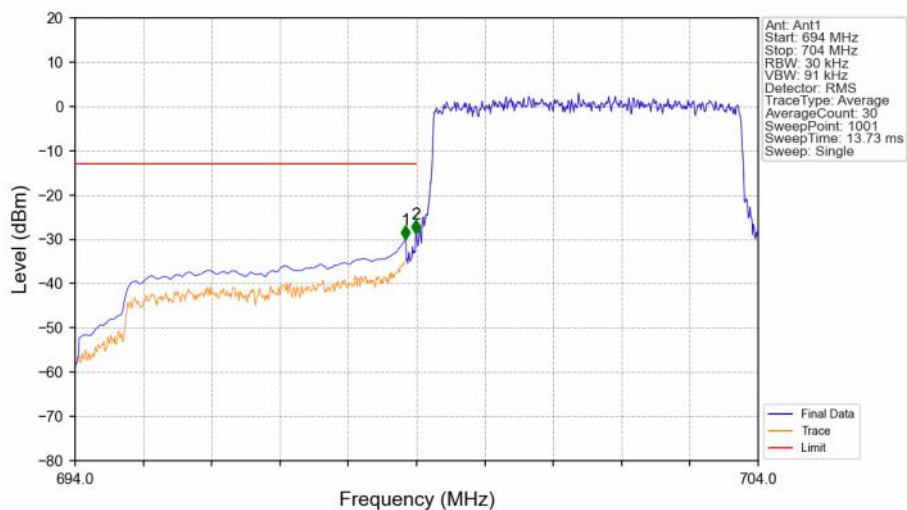
Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV



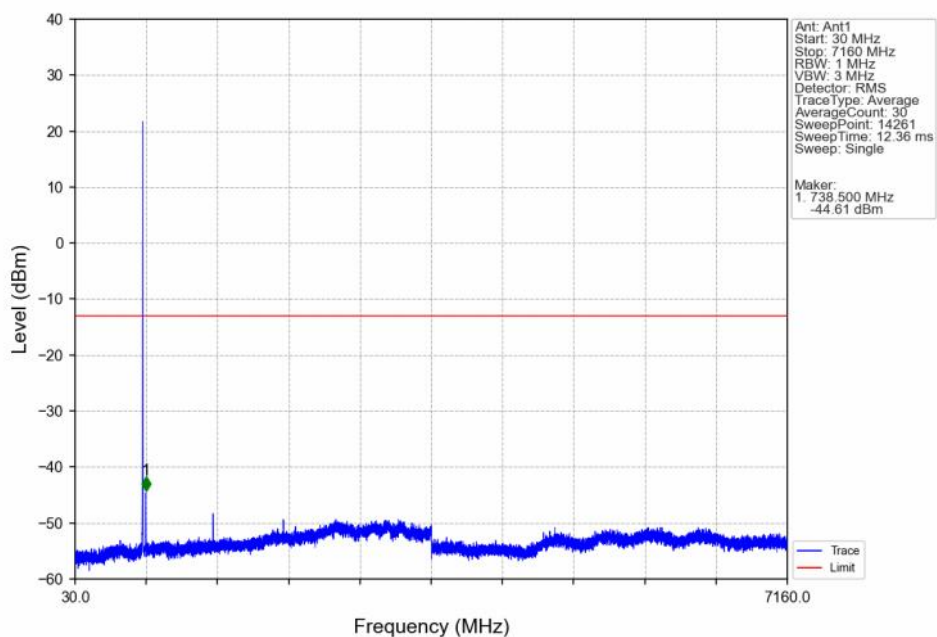
Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV



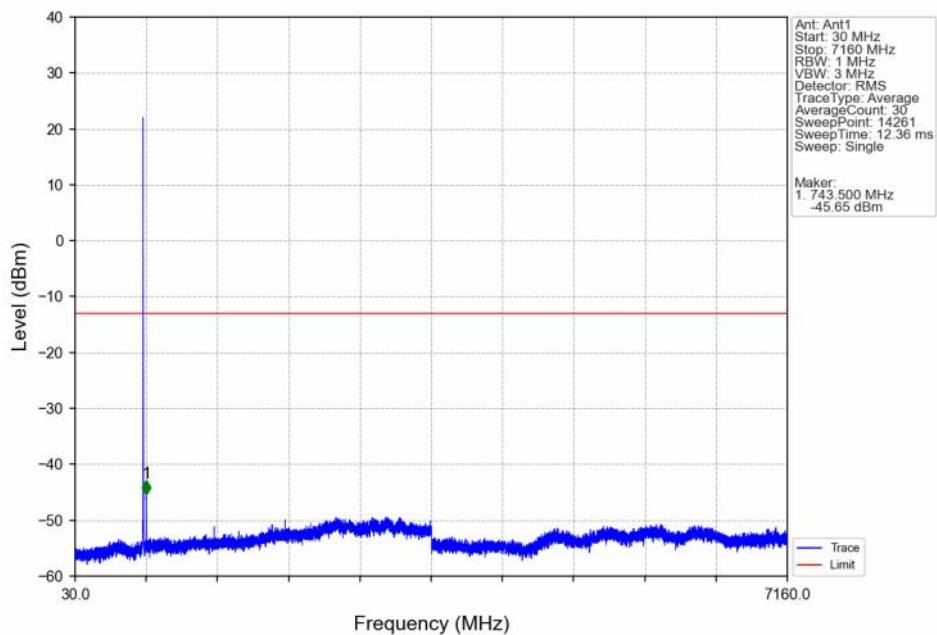
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



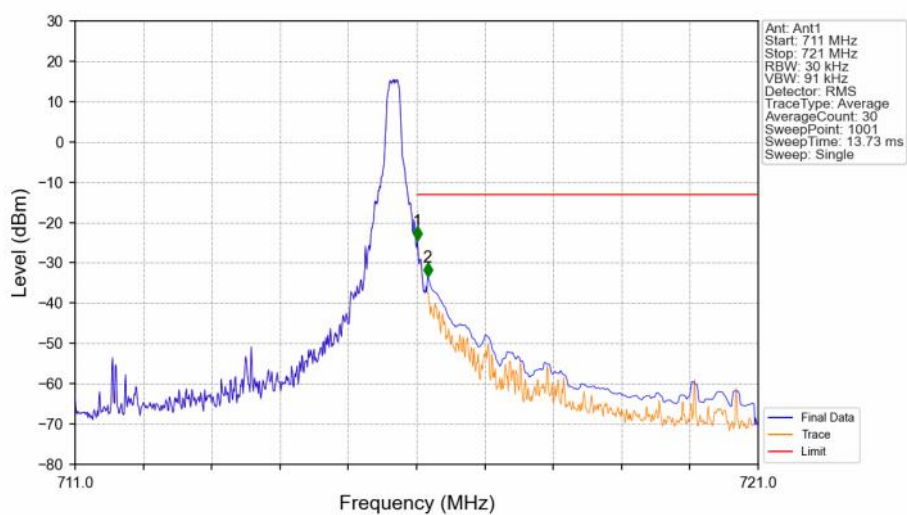
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTNV

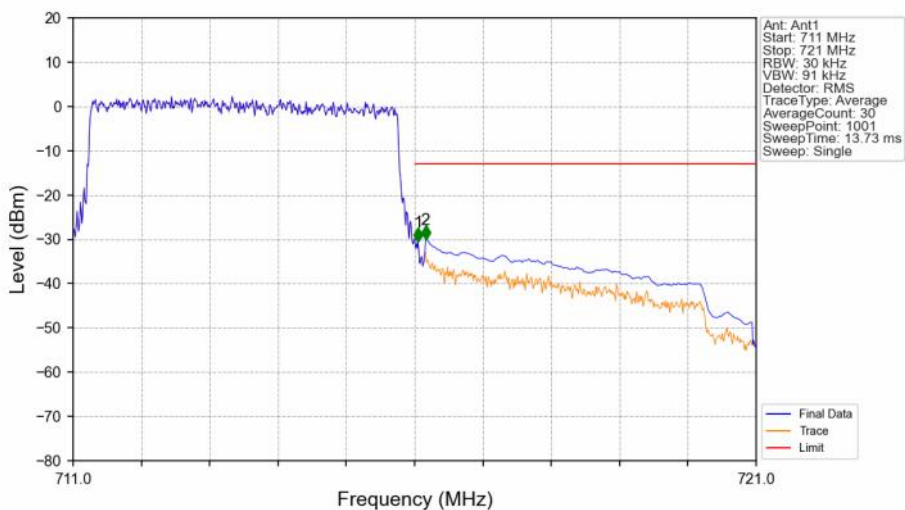


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



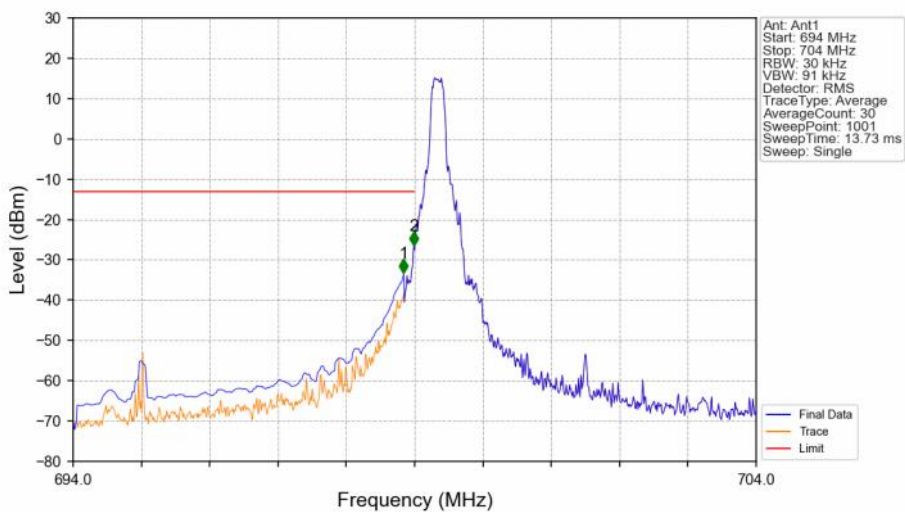
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-24.50	-13	Pass
716.1	721	0.1	CHP	2	716.160	-33.44	-13	Pass

Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTV



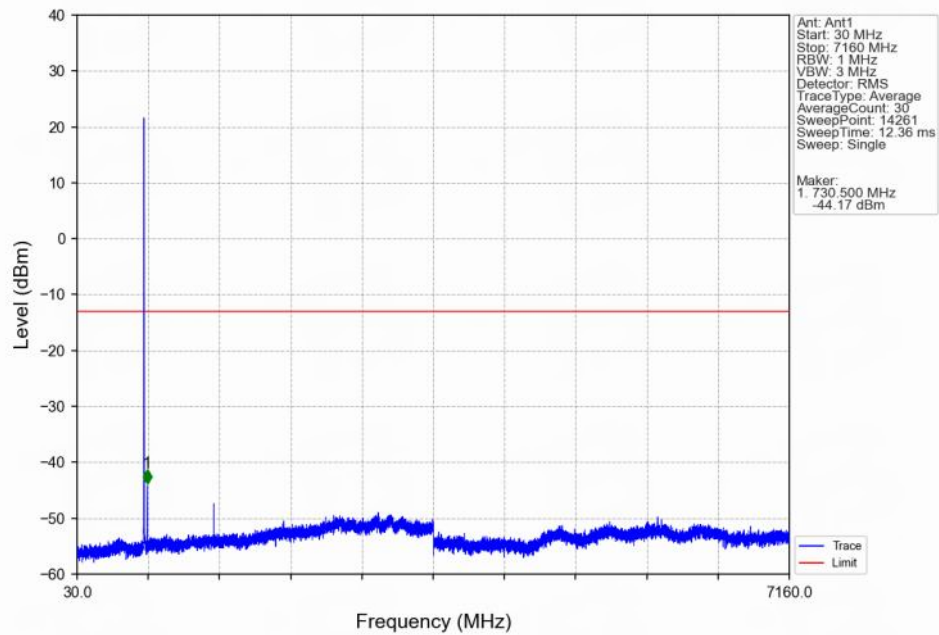
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.050	-30.59	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.96	-13	Pass

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTV

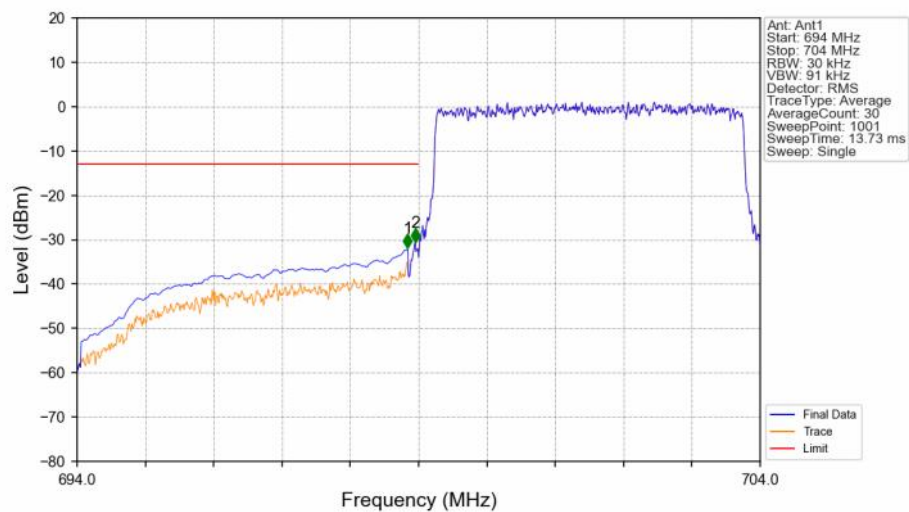


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-33.32	-13	Pass
698.9	699	0.03	/	2	698.990	-26.47	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

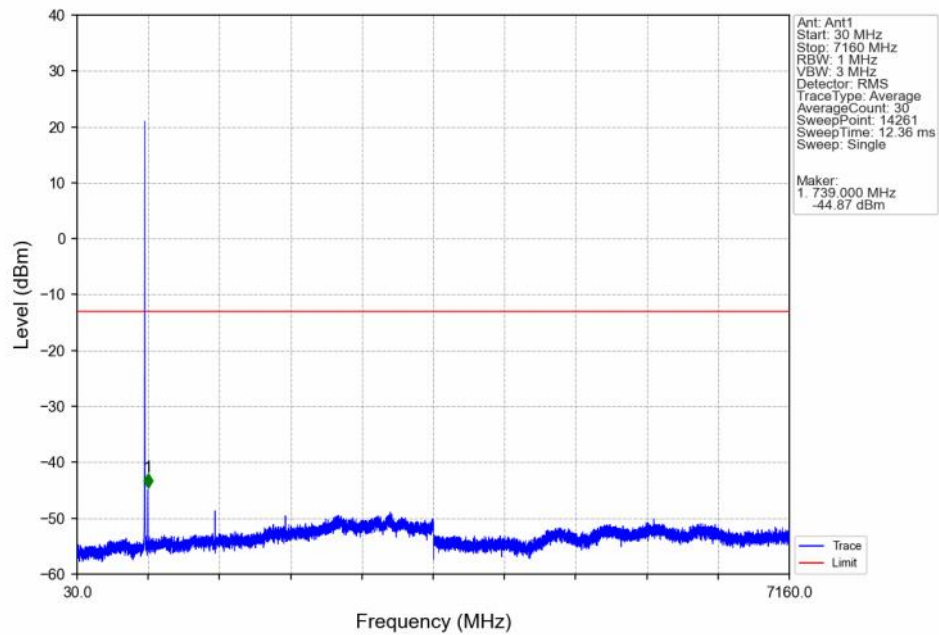


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

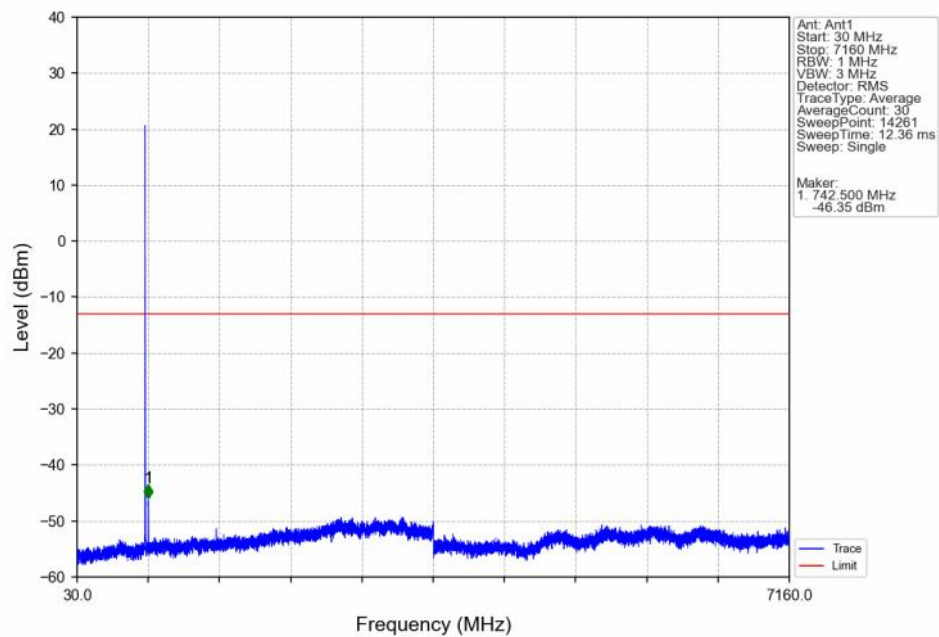


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-31.87	-13	Pass
698.9	699	0.03	/	2	698.950	-30.51	-13	Pass
699	704	0.03	/	/	/	/	/	/

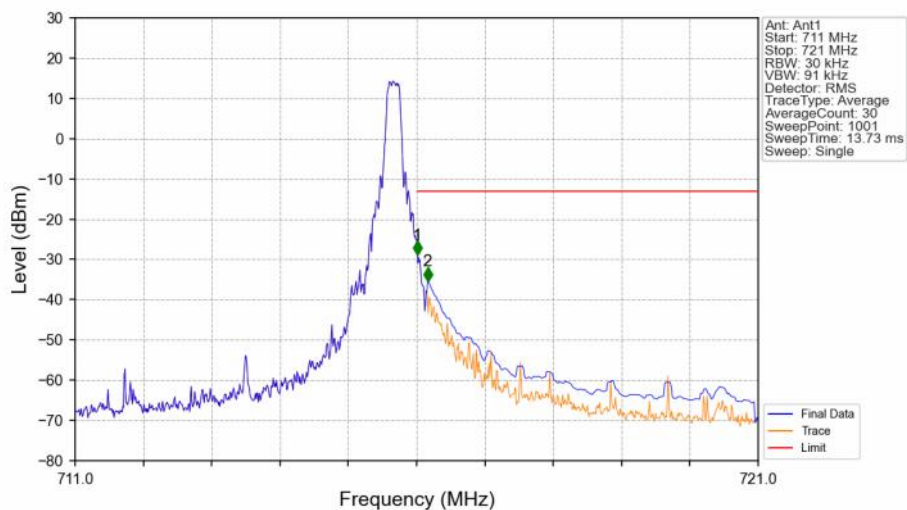
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



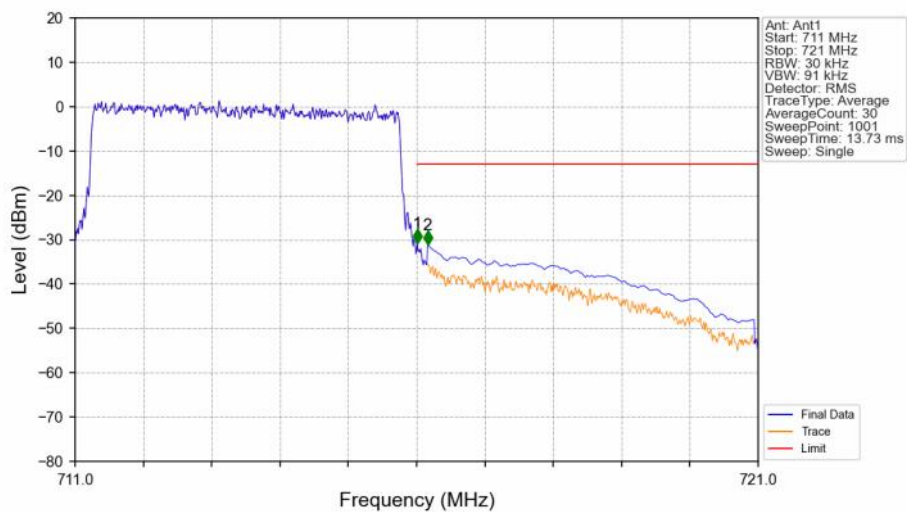
Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band12 5MHz 16QAM HCH 713.5MHz RB 1 24 NTNV

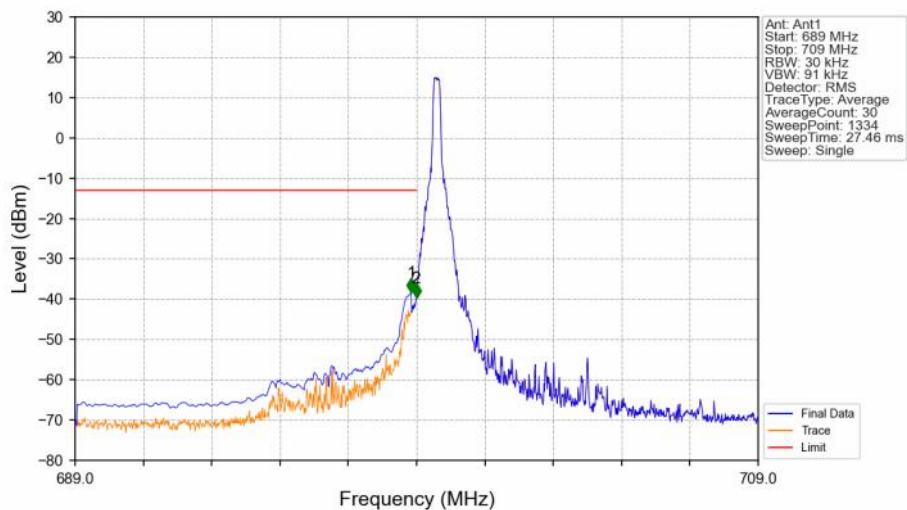


Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV

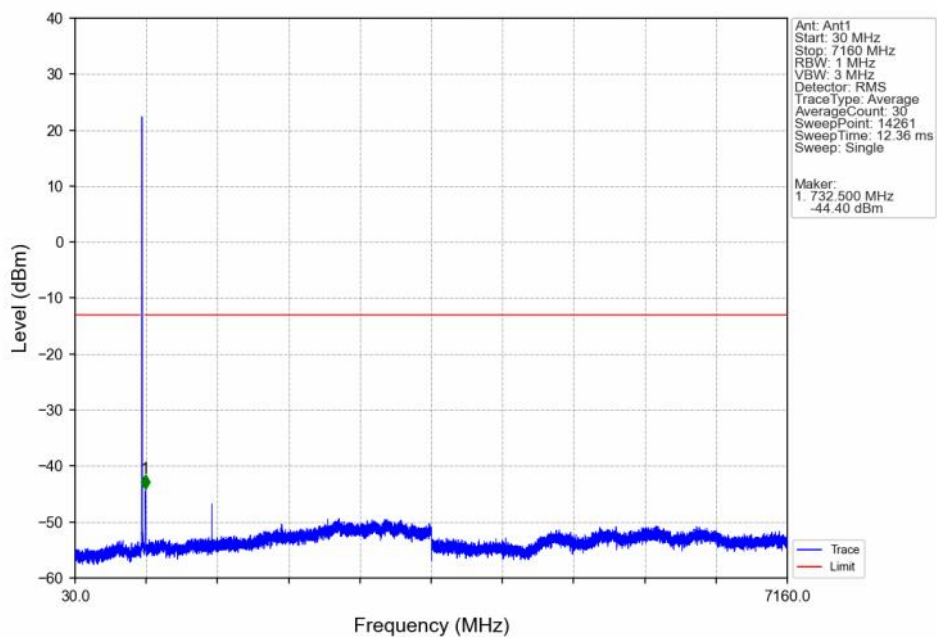


6.2.4 B12_10MHz

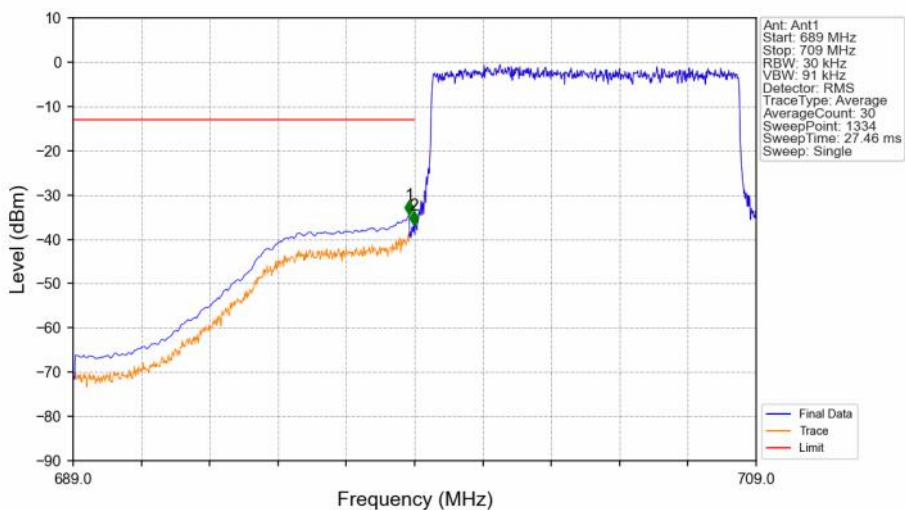
Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV



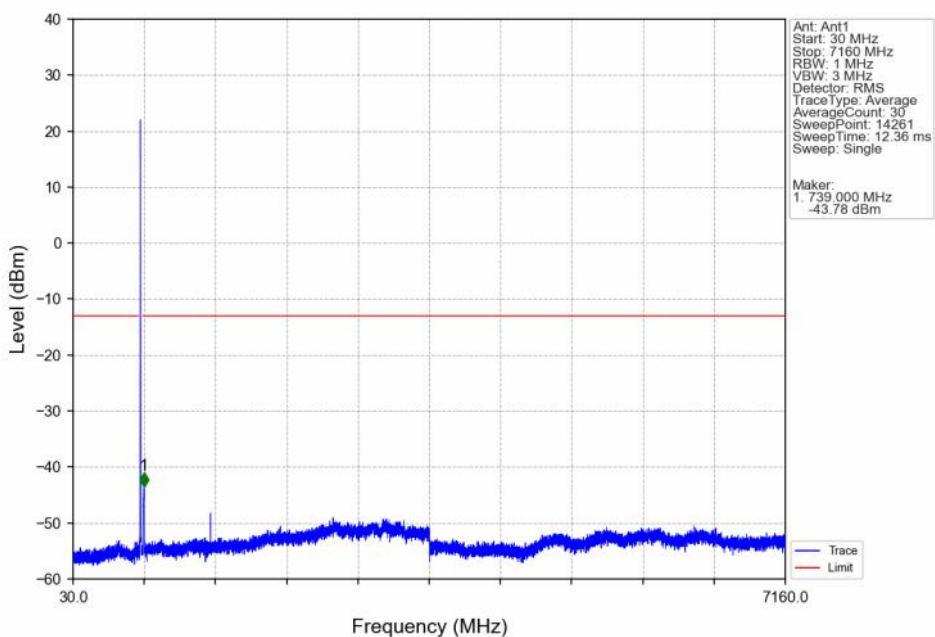
Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV



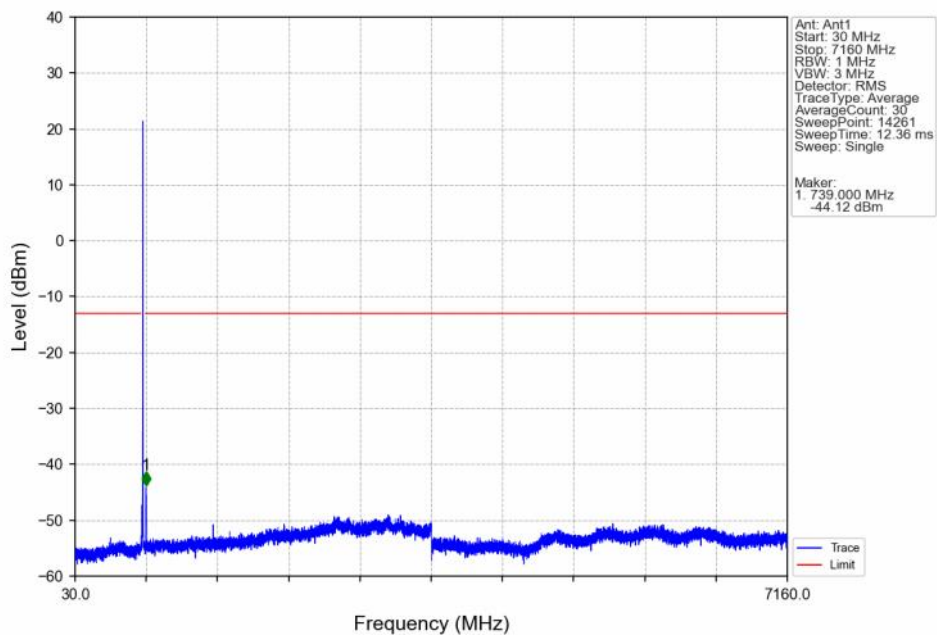
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



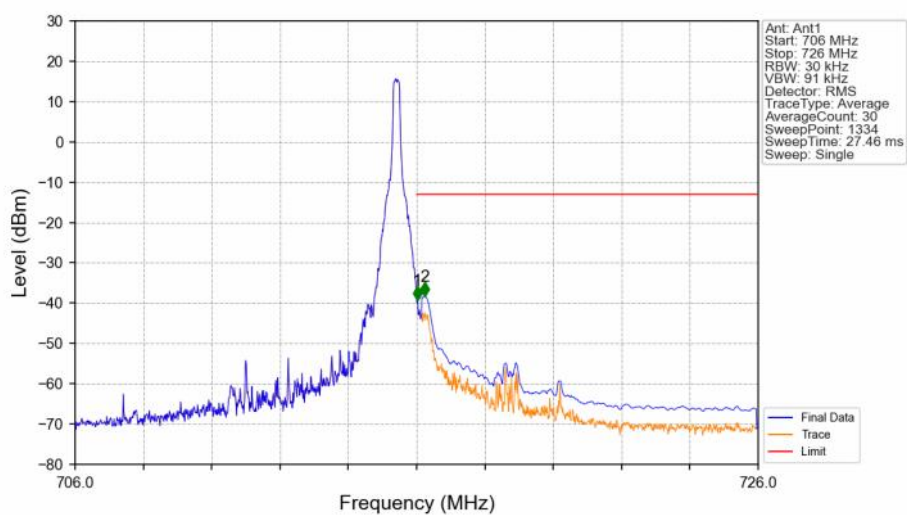
Band12 10MHz QPSK MCH 707.5MHz RB 1 0 NTN



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

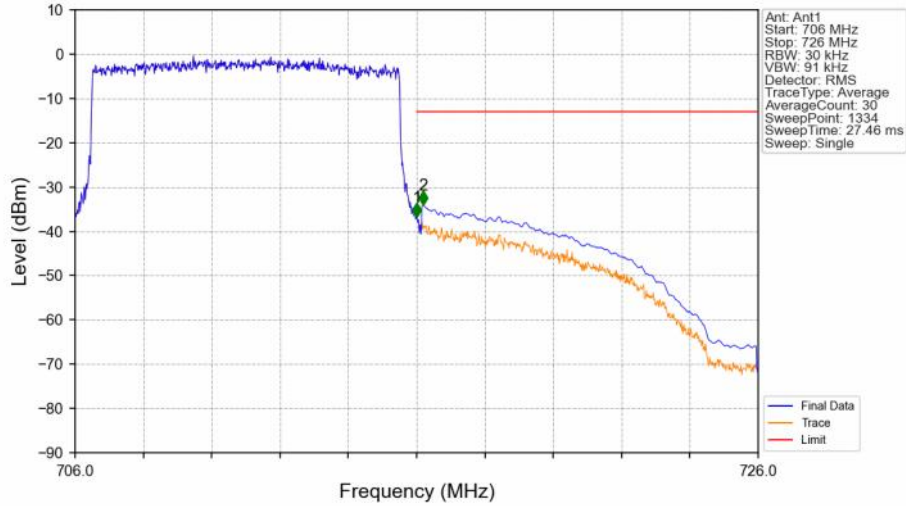


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV

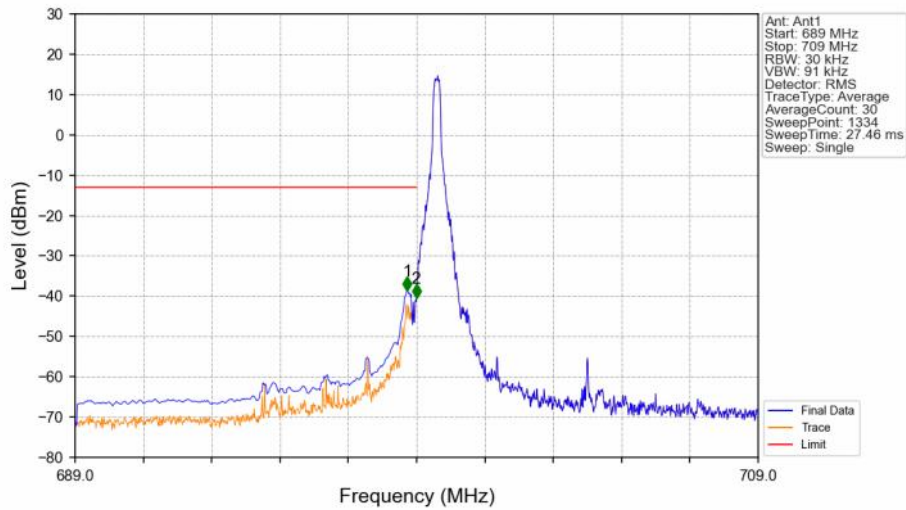


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-39.30	-13	Pass
716.1	726	0.1	CHP	2	716.233	-38.36	-13	Pass

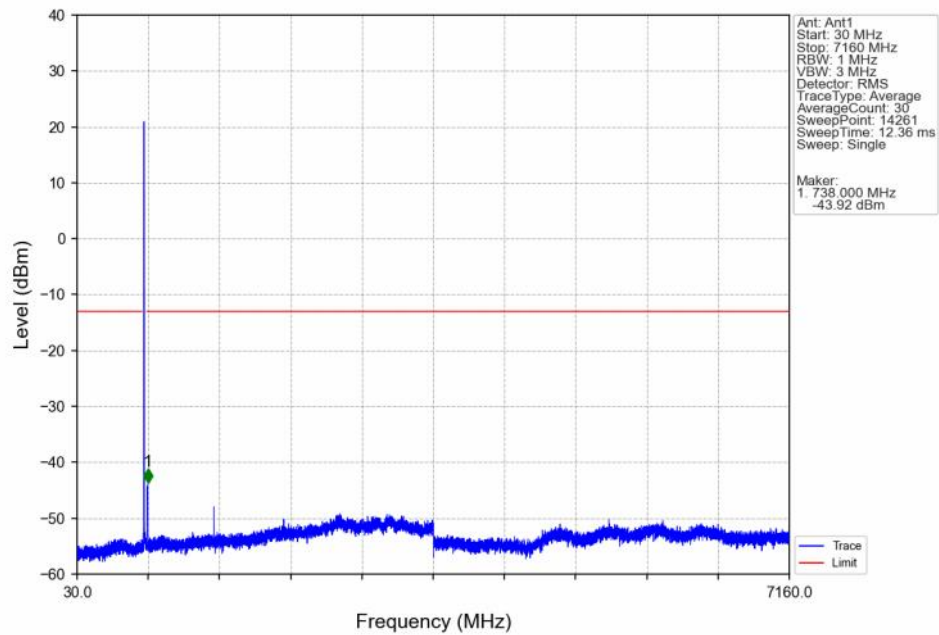
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



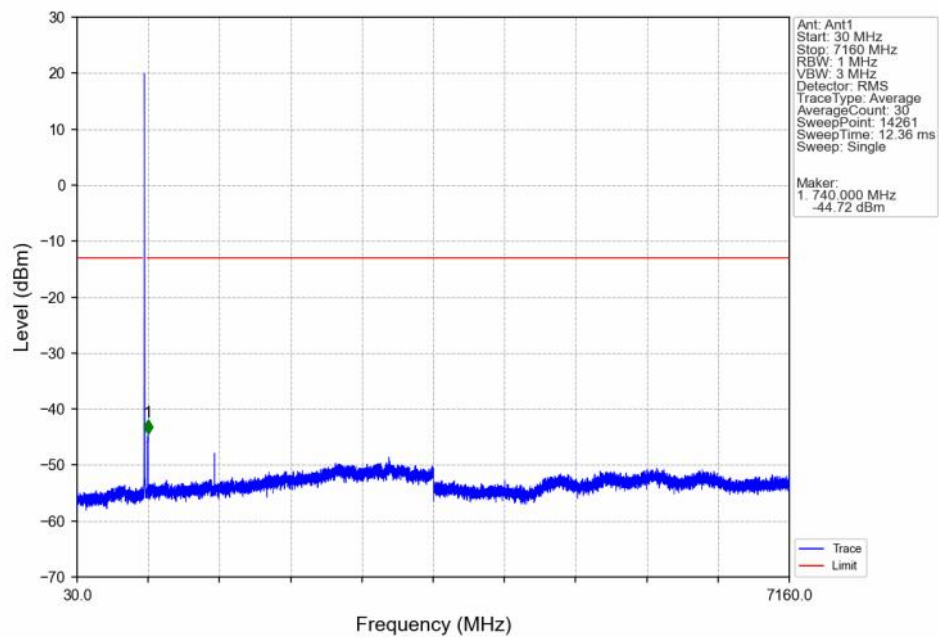
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



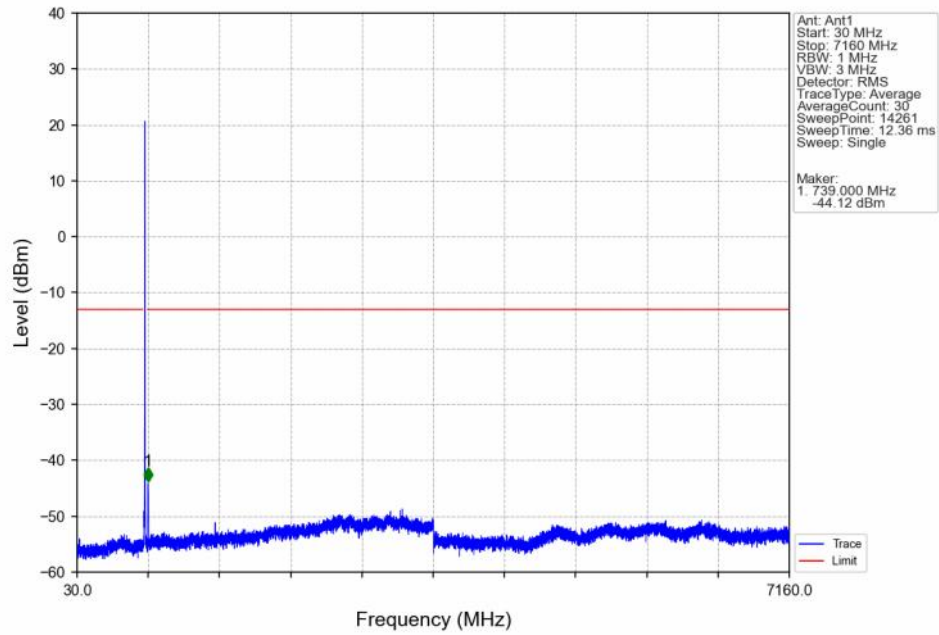
Band12 10MHz 16QAM LCH 704MHz RB 1 0 NTNV



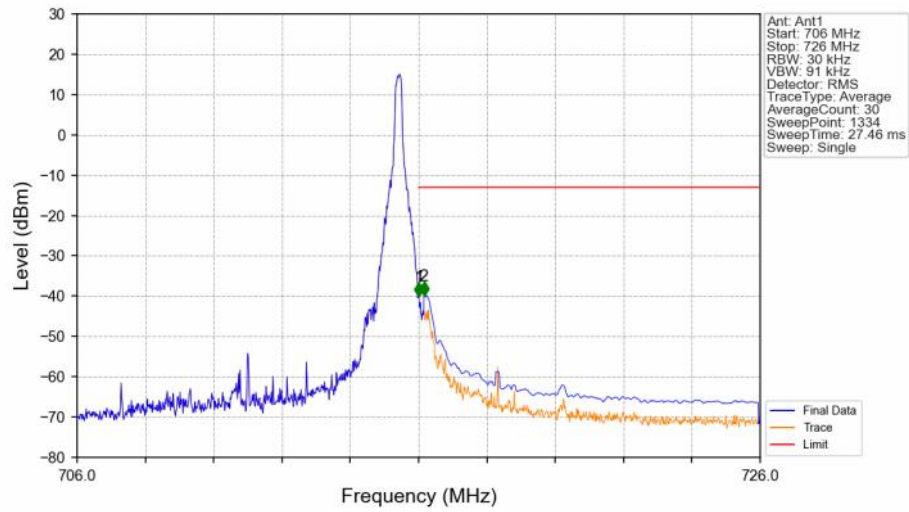
Band12 10MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



Band12 10MHz 16QAM HCH 711MHz RB 1 0 NTNV



Band12 10MHz 16QAM HCH 711MHz RB 1 49 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-39.99	-13	Pass
716.1	726	0.1	CHP	2	716.158	-39.78	-13	Pass

7. Form731

7.1 Test Result

7.1.1 Form731_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
12	1.4	699.7	715.3	0.1995	0.0276	ppm	1M13G7D	27H	23.00
12	1.4	699.7	715.3	0.1648	0.0018	ppm	1M13W7D	27H	22.17
12	3	700.5	714.5	0.2023	0.0026	ppm	2M76G7D	27H	23.06
12	3	700.5	714.5	0.1656	0.0023	ppm	2M75W7D	27H	22.19
12	5	701.5	713.5	0.2042	0.0026	ppm	4M57G7D	27H	23.10
12	5	701.5	713.5	0.1648	0.0023	ppm	4M56W7D	27H	22.17
12	10	704	711	0.1977	0.0029	ppm	9M09G7D	27H	22.96
12	10	704	711	0.1618	0.0028	ppm	5M26W7D	27H	22.09

7.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
12	1.4	699.7	715.3	0.0822	0.0276	ppm	1M13G7D	27H	19.15
12	1.4	699.7	715.3	0.0679	0.0018	ppm	1M13W7D	27H	18.32
12	3	700.5	714.5	0.0834	0.0026	ppm	2M76G7D	27H	19.21
12	3	700.5	714.5	0.0682	0.0023	ppm	2M75W7D	27H	18.34
12	5	701.5	713.5	0.0841	0.0026	ppm	4M57G7D	27H	19.25
12	5	701.5	713.5	0.0679	0.0023	ppm	4M56W7D	27H	18.32
12	10	704	711	0.0815	0.0029	ppm	9M09G7D	27H	19.11
12	10	704	711	0.0667	0.0028	ppm	5M26W7D	27H	18.24