

1. Effective (Isotropic) Radiated Power Output Data (External Antenna)

1.1 Test Result

1.1.1 B5_1.4MHz_ERP

Band: 5 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	824.7	1	0	23.20	-0.94	20.11	<=38.45	Pass
			2	23.20	-0.94	20.11	<=38.45	Pass
			5	23.11	-0.94	20.02	<=38.45	Pass
		3	0	23.15	-0.94	20.06	<=38.45	Pass
			2	23.14	-0.94	20.05	<=38.45	Pass
			3	23.10	-0.94	20.01	<=38.45	Pass
		6	0	22.11	-0.94	19.02	<=38.45	Pass
	836.5	1	0	23.08	-0.94	19.99	<=38.45	Pass
			2	23.07	-0.94	19.98	<=38.45	Pass
			5	23.11	-0.94	20.02	<=38.45	Pass
		3	0	23.05	-0.94	19.96	<=38.45	Pass
			2	23.19	-0.94	20.10	<=38.45	Pass
			3	23.09	-0.94	20.00	<=38.45	Pass
		6	0	22.23	-0.94	19.14	<=38.45	Pass
	848.3	1	0	22.80	-0.94	19.71	<=38.45	Pass
			2	23.13	-0.94	20.04	<=38.45	Pass
			5	23.01	-0.94	19.92	<=38.45	Pass
		3	0	23.01	-0.94	19.92	<=38.45	Pass
			2	22.91	-0.94	19.82	<=38.45	Pass
			3	22.96	-0.94	19.87	<=38.45	Pass
		6	0	21.98	-0.94	18.89	<=38.45	Pass
16QAM	824.7	1	0	21.59	-0.94	18.50	<=38.45	Pass
			2	21.86	-0.94	18.77	<=38.45	Pass
			5	21.58	-0.94	18.49	<=38.45	Pass
		3	0	21.84	-0.94	18.75	<=38.45	Pass
			2	22.14	-0.94	19.05	<=38.45	Pass
			3	22.15	-0.94	19.06	<=38.45	Pass
		6	0	20.98	-0.94	17.89	<=38.45	Pass
	836.5	1	0	21.80	-0.94	18.71	<=38.45	Pass
			2	21.77	-0.94	18.68	<=38.45	Pass
			5	21.69	-0.94	18.60	<=38.45	Pass
		3	0	21.99	-0.94	18.90	<=38.45	Pass
			2	22.10	-0.94	19.01	<=38.45	Pass
			3	22.08	-0.94	18.99	<=38.45	Pass
		6	0	21.13	-0.94	18.04	<=38.45	Pass
	848.3	1	0	21.70	-0.94	18.61	<=38.45	Pass
			2	21.44	-0.94	18.35	<=38.45	Pass
			5	21.58	-0.94	18.49	<=38.45	Pass
		3	0	21.92	-0.94	18.83	<=38.45	Pass
			2	22.00	-0.94	18.91	<=38.45	Pass
			3	21.78	-0.94	18.69	<=38.45	Pass
		6	0	21.13	-0.94	18.04	<=38.45	Pass
64QAM	824.7	1	0	21.93	-0.94	18.84	<=38.45	Pass
			2	21.78	-0.94	18.69	<=38.45	Pass
			5	21.86	-0.94	18.77	<=38.45	Pass
		3	0	21.92	-0.94	18.83	<=38.45	Pass
			2	22.11	-0.94	19.02	<=38.45	Pass
			3	22.10	-0.94	19.01	<=38.45	Pass
		6	0	21.06	-0.94	17.97	<=38.45	Pass

	836.5	1	0	21.81	-0.94	18.72	<=38.45	Pass
			2	21.40	-0.94	18.31	<=38.45	Pass
			5	21.78	-0.94	18.69	<=38.45	Pass
		3	0	21.98	-0.94	18.89	<=38.45	Pass
			2	21.98	-0.94	18.89	<=38.45	Pass
			3	22.05	-0.94	18.96	<=38.45	Pass
		6	0	21.11	-0.94	18.02	<=38.45	Pass
	848.3	1	0	21.57	-0.94	18.48	<=38.45	Pass
			2	21.74	-0.94	18.65	<=38.45	Pass
			5	21.45	-0.94	18.36	<=38.45	Pass
		3	0	21.75	-0.94	18.66	<=38.45	Pass
			2	21.94	-0.94	18.85	<=38.45	Pass
			3	21.90	-0.94	18.81	<=38.45	Pass
		6	0	21.05	-0.94	17.96	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B5_3MHz_ERP

Band: 5 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	825.5	1	0	23.19	-0.94	20.10	<=38.45	Pass
			7	23.59	-0.94	20.50	<=38.45	Pass
			14	23.39	-0.94	20.30	<=38.45	Pass
		8	0	22.20	-0.94	19.11	<=38.45	Pass
			4	22.24	-0.94	19.15	<=38.45	Pass
			7	22.11	-0.94	19.02	<=38.45	Pass
		15	0	22.08	-0.94	18.99	<=38.45	Pass
	836.5	1	0	22.99	-0.94	19.90	<=38.45	Pass
			7	23.16	-0.94	20.07	<=38.45	Pass
			14	22.98	-0.94	19.89	<=38.45	Pass
		8	0	22.03	-0.94	18.94	<=38.45	Pass
			4	21.98	-0.94	18.89	<=38.45	Pass
			7	22.05	-0.94	18.96	<=38.45	Pass
		15	0	21.98	-0.94	18.89	<=38.45	Pass
	847.5	1	0	23.05	-0.94	19.96	<=38.45	Pass
			7	23.05	-0.94	19.96	<=38.45	Pass
			14	22.92	-0.94	19.83	<=38.45	Pass
		8	0	22.05	-0.94	18.96	<=38.45	Pass
			4	21.90	-0.94	18.81	<=38.45	Pass
			7	21.92	-0.94	18.83	<=38.45	Pass
		15	0	22.00	-0.94	18.91	<=38.45	Pass
16QAM	825.5	1	0	21.54	-0.94	18.45	<=38.45	Pass
			7	21.98	-0.94	18.89	<=38.45	Pass
			14	21.74	-0.94	18.65	<=38.45	Pass
		8	0	20.78	-0.94	17.69	<=38.45	Pass
			4	20.89	-0.94	17.80	<=38.45	Pass
			7	20.81	-0.94	17.72	<=38.45	Pass
		15	0	20.83	-0.94	17.74	<=38.45	Pass
	836.5	1	0	21.65	-0.94	18.56	<=38.45	Pass
			7	21.84	-0.94	18.75	<=38.45	Pass
			14	21.60	-0.94	18.51	<=38.45	Pass
		8	0	21.03	-0.94	17.94	<=38.45	Pass
			4	20.99	-0.94	17.90	<=38.45	Pass
			7	21.08	-0.94	17.99	<=38.45	Pass
		15	0	21.08	-0.94	17.99	<=38.45	Pass
	847.5	1	0	21.68	-0.94	18.59	<=38.45	Pass

		8	7	21.58	-0.94	18.49	<=38.45	Pass	
			14	21.25	-0.94	18.16	<=38.45	Pass	
			0	20.93	-0.94	17.84	<=38.45	Pass	
		4	20.87	-0.94	17.78	<=38.45	Pass		
		7	20.98	-0.94	17.89	<=38.45	Pass		
		15	0	20.95	-0.94	17.86	<=38.45	Pass	
64QAM	825.5	1	0	21.33	-0.94	18.24	<=38.45	Pass	
			7	21.96	-0.94	18.87	<=38.45	Pass	
			14	21.30	-0.94	18.21	<=38.45	Pass	
		8	0	21.05	-0.94	17.96	<=38.45	Pass	
			4	21.08	-0.94	17.99	<=38.45	Pass	
			7	21.06	-0.94	17.97	<=38.45	Pass	
		15	0	21.10	-0.94	18.01	<=38.45	Pass	
		836.5	1	0	21.53	-0.94	18.44	<=38.45	Pass
				7	21.57	-0.94	18.48	<=38.45	Pass
	14			21.32	-0.94	18.23	<=38.45	Pass	
	8		0	20.59	-0.94	17.50	<=38.45	Pass	
			4	20.72	-0.94	17.63	<=38.45	Pass	
			7	20.58	-0.94	17.49	<=38.45	Pass	
	15		0	20.92	-0.94	17.83	<=38.45	Pass	
	847.5		1	0	21.57	-0.94	18.48	<=38.45	Pass
				7	21.59	-0.94	18.50	<=38.45	Pass
		14		21.30	-0.94	18.21	<=38.45	Pass	
		8	0	20.97	-0.94	17.88	<=38.45	Pass	
			4	20.79	-0.94	17.70	<=38.45	Pass	
			7	20.67	-0.94	17.58	<=38.45	Pass	
		15	0	20.91	-0.94	17.82	<=38.45	Pass	
		Note1: ERP=Conducted Power+Antenna Gain-2.15							

1.1.3 B5_5MHz_ERP

Band: 5 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	826.5	1	0	22.93	-0.94	19.84	<=38.45	Pass
			13	23.08	-0.94	19.99	<=38.45	Pass
			24	23.04	-0.94	19.95	<=38.45	Pass
		12	0	22.03	-0.94	18.94	<=38.45	Pass
			6	22.11	-0.94	19.02	<=38.45	Pass
			13	22.06	-0.94	18.97	<=38.45	Pass
		25	0	21.95	-0.94	18.86	<=38.45	Pass
	836.5	1	0	23.01	-0.94	19.92	<=38.45	Pass
			13	23.15	-0.94	20.06	<=38.45	Pass
			24	22.98	-0.94	19.89	<=38.45	Pass
		12	0	21.98	-0.94	18.89	<=38.45	Pass
			6	22.05	-0.94	18.96	<=38.45	Pass
			13	21.92	-0.94	18.83	<=38.45	Pass
		25	0	21.95	-0.94	18.86	<=38.45	Pass
	846.5	1	0	22.93	-0.94	19.84	<=38.45	Pass
			13	23.11	-0.94	20.02	<=38.45	Pass
			24	22.89	-0.94	19.80	<=38.45	Pass
		12	0	22.02	-0.94	18.93	<=38.45	Pass
			6	21.96	-0.94	18.87	<=38.45	Pass
			13	21.83	-0.94	18.74	<=38.45	Pass
		25	0	21.92	-0.94	18.83	<=38.45	Pass
16QAM	826.5	1	0	21.31	-0.94	18.22	<=38.45	Pass
			13	21.90	-0.94	18.81	<=38.45	Pass

		12	24	21.57	-0.94	18.48	<=38.45	Pass	
			0	21.17	-0.94	18.08	<=38.45	Pass	
			6	21.06	-0.94	17.97	<=38.45	Pass	
			13	21.03	-0.94	17.94	<=38.45	Pass	
		25	0	21.02	-0.94	17.93	<=38.45	Pass	
	836.5	1	0	21.69	-0.94	18.60	<=38.45	Pass	
			13	21.53	-0.94	18.44	<=38.45	Pass	
			24	21.64	-0.94	18.55	<=38.45	Pass	
		12	0	21.00	-0.94	17.91	<=38.45	Pass	
			6	21.08	-0.94	17.99	<=38.45	Pass	
			13	20.96	-0.94	17.87	<=38.45	Pass	
		25	0	21.01	-0.94	17.92	<=38.45	Pass	
		846.5	1	0	21.79	-0.94	18.70	<=38.45	Pass
	13			21.76	-0.94	18.67	<=38.45	Pass	
	24			21.39	-0.94	18.30	<=38.45	Pass	
	12		0	20.82	-0.94	17.73	<=38.45	Pass	
			6	20.76	-0.94	17.67	<=38.45	Pass	
			13	20.88	-0.94	17.79	<=38.45	Pass	
	25		0	20.85	-0.94	17.76	<=38.45	Pass	
	64QAM	826.5	1	0	21.22	-0.94	18.13	<=38.45	Pass
				13	21.44	-0.94	18.35	<=38.45	Pass
				24	20.96	-0.94	17.87	<=38.45	Pass
			12	0	20.75	-0.94	17.66	<=38.45	Pass
				6	20.81	-0.94	17.72	<=38.45	Pass
13				20.69	-0.94	17.60	<=38.45	Pass	
25			0	20.87	-0.94	17.78	<=38.45	Pass	
836.5		1	0	21.57	-0.94	18.48	<=38.45	Pass	
			13	21.56	-0.94	18.47	<=38.45	Pass	
			24	21.26	-0.94	18.17	<=38.45	Pass	
		12	0	20.67	-0.94	17.58	<=38.45	Pass	
			6	20.86	-0.94	17.77	<=38.45	Pass	
			13	20.72	-0.94	17.63	<=38.45	Pass	
25		0	20.83	-0.94	17.74	<=38.45	Pass		
846.5		1	0	21.59	-0.94	18.50	<=38.45	Pass	
			13	21.55	-0.94	18.46	<=38.45	Pass	
			24	21.16	-0.94	18.07	<=38.45	Pass	
		12	0	20.71	-0.94	17.62	<=38.45	Pass	
			6	20.63	-0.94	17.54	<=38.45	Pass	
			13	20.50	-0.94	17.41	<=38.45	Pass	
		25	0	20.94	-0.94	17.85	<=38.45	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.4 B5_10MHz_ERP

Band: 5 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	23.00	-0.94	19.91	<=38.45	Pass
			25	23.32	-0.94	20.23	<=38.45	Pass
			49	22.84	-0.94	19.75	<=38.45	Pass
		25	0	22.13	-0.94	19.04	<=38.45	Pass
			13	22.10	-0.94	19.01	<=38.45	Pass
			25	22.04	-0.94	18.95	<=38.45	Pass
		50	0	22.06	-0.94	18.97	<=38.45	Pass
	836.5	1	0	23.05	-0.94	19.96	<=38.45	Pass
			25	23.05	-0.94	19.96	<=38.45	Pass
			49	23.01	-0.94	19.92	<=38.45	Pass

		25	0	22.04	-0.94	18.95	<=38.45	Pass		
			13	22.01	-0.94	18.92	<=38.45	Pass		
			25	21.93	-0.94	18.84	<=38.45	Pass		
		50	0	21.95	-0.94	18.86	<=38.45	Pass		
			844	1	0	23.07	-0.94	19.98	<=38.45	Pass
					25	23.42	-0.94	20.33	<=38.45	Pass
		49			22.90	-0.94	19.81	<=38.45	Pass	
		25		0	22.08	-0.94	18.99	<=38.45	Pass	
				13	22.06	-0.94	18.97	<=38.45	Pass	
	25			21.84	-0.94	18.75	<=38.45	Pass		
	50	0	21.99	-0.94	18.90	<=38.45	Pass			
	16QAM	829	1	0	21.52	-0.94	18.43	<=38.45	Pass	
25				21.99	-0.94	18.90	<=38.45	Pass		
49				21.37	-0.94	18.28	<=38.45	Pass		
25			0	21.03	-0.94	17.94	<=38.45	Pass		
			13	21.10	-0.94	18.01	<=38.45	Pass		
			25	21.03	-0.94	17.94	<=38.45	Pass		
			50	0	21.03	-0.94	17.94	<=38.45	Pass	
			836.5	1	0	21.55	-0.94	18.46	<=38.45	Pass
25					21.69	-0.94	18.60	<=38.45	Pass	
49		21.65			-0.94	18.56	<=38.45	Pass		
25		0		20.97	-0.94	17.88	<=38.45	Pass		
		13		21.15	-0.94	18.06	<=38.45	Pass		
		25		21.09	-0.94	18.00	<=38.45	Pass		
50		0		21.00	-0.94	17.91	<=38.45	Pass		
844		1		0	21.67	-0.94	18.58	<=38.45	Pass	
				25	22.07	-0.94	18.98	<=38.45	Pass	
			49	21.38	-0.94	18.29	<=38.45	Pass		
		25	0	21.05	-0.94	17.96	<=38.45	Pass		
			13	21.07	-0.94	17.98	<=38.45	Pass		
			25	20.82	-0.94	17.73	<=38.45	Pass		
		50	0	21.05	-0.94	17.96	<=38.45	Pass		
		64QAM	829	1	0	21.36	-0.94	18.27	<=38.45	Pass
					25	21.94	-0.94	18.85	<=38.45	Pass
49					20.89	-0.94	17.80	<=38.45	Pass	
25				0	21.09	-0.94	18.00	<=38.45	Pass	
				13	21.08	-0.94	17.99	<=38.45	Pass	
				25	21.01	-0.94	17.92	<=38.45	Pass	
	50			0	21.03	-0.94	17.94	<=38.45	Pass	
	836.5			1	0	21.47	-0.94	18.38	<=38.45	Pass
25					21.42	-0.94	18.33	<=38.45	Pass	
49			20.79		-0.94	17.70	<=38.45	Pass		
25			0	21.04	-0.94	17.95	<=38.45	Pass		
			13	21.12	-0.94	18.03	<=38.45	Pass		
			25	21.07	-0.94	17.98	<=38.45	Pass		
50	0		21.09	-0.94	18.00	<=38.45	Pass			
844	1		0	21.22	-0.94	18.13	<=38.45	Pass		
			25	22.05	-0.94	18.96	<=38.45	Pass		
			49	21.37	-0.94	18.28	<=38.45	Pass		
	25		0	21.05	-0.94	17.96	<=38.45	Pass		
			13	21.03	-0.94	17.94	<=38.45	Pass		
			25	20.90	-0.94	17.81	<=38.45	Pass		
	50		0	21.13	-0.94	18.04	<=38.45	Pass		
	Note1: ERP=Conducted Power+Antenna Gain-2.15									

2. Frequency Stability

2.1 Test Result

2.1.1 B5_10MHz

Band: 5 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	836.5	50	0	20	LV	1.300	0.0016	-2.5 to 2.5	Pass
					NV	0.700	0.0008	-2.5 to 2.5	Pass
					HV	-0.400	-0.0005	-2.5 to 2.5	Pass
				-30	NV	0.400	0.0005	-2.5 to 2.5	Pass
				-20	NV	0.800	0.0010	-2.5 to 2.5	Pass
				-10	NV	1.100	0.0013	-2.5 to 2.5	Pass
				0	NV	0.400	0.0005	-2.5 to 2.5	Pass
				10	NV	0.600	0.0007	-2.5 to 2.5	Pass
				30	NV	1.400	0.0017	-2.5 to 2.5	Pass
				40	NV	1.800	0.0022	-2.5 to 2.5	Pass
				50	NV	2.700	0.0032	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band5_OBW

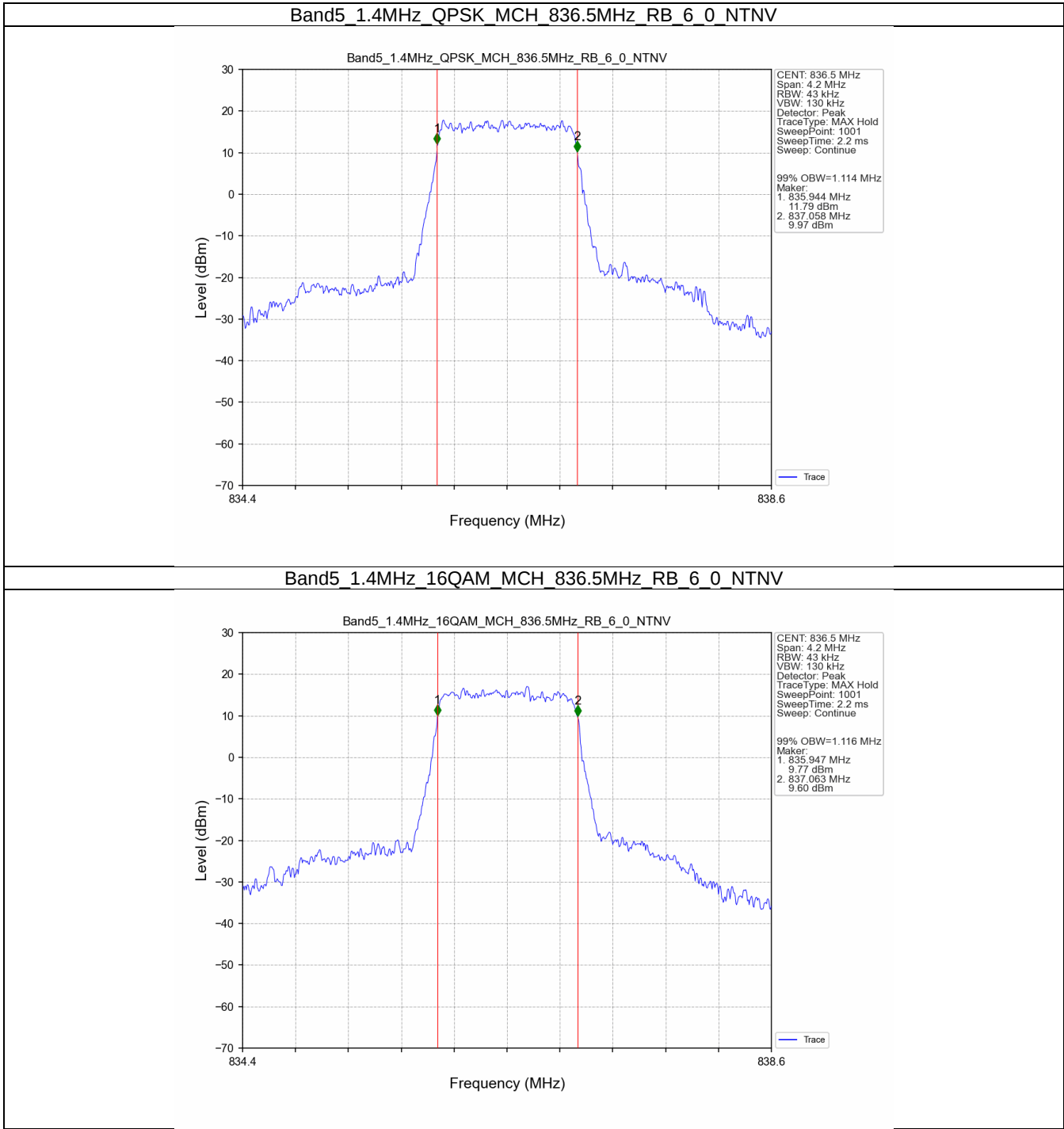
Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	836.5	6	0	1.114	/	Pass
	16QAM	836.5	6	0	1.116	/	Pass
3	QPSK	836.5	15	0	2.717	/	Pass
	16QAM	836.5	15	0	2.725	/	Pass
5	QPSK	836.5	25	0	4.524	/	Pass
	16QAM	836.5	25	0	4.524	/	Pass
10	QPSK	836.5	50	0	9.055	/	Pass
	16QAM	836.5	50	0	8.980	/	Pass

3.1.2 Band5_XDB

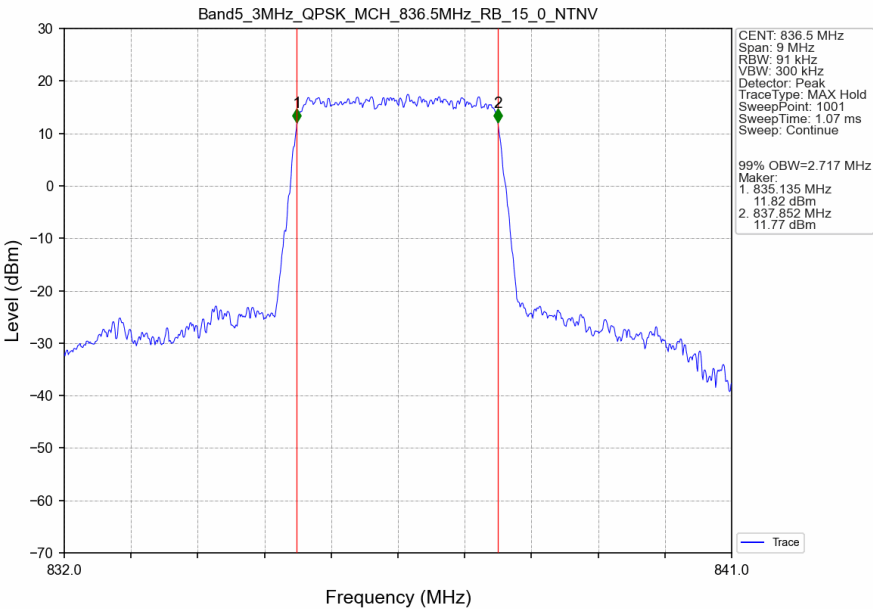
Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	836.5	6	0	1.329	/	Pass
	16QAM	836.5	6	0	1.310	/	Pass
3	QPSK	836.5	15	0	3.040	/	Pass
	16QAM	836.5	15	0	3.040	/	Pass
5	QPSK	836.5	25	0	5.074	/	Pass
	16QAM	836.5	25	0	5.049	/	Pass
10	QPSK	836.5	50	0	9.986	/	Pass
	16QAM	836.5	50	0	9.898	/	Pass

3.2 Test Graph

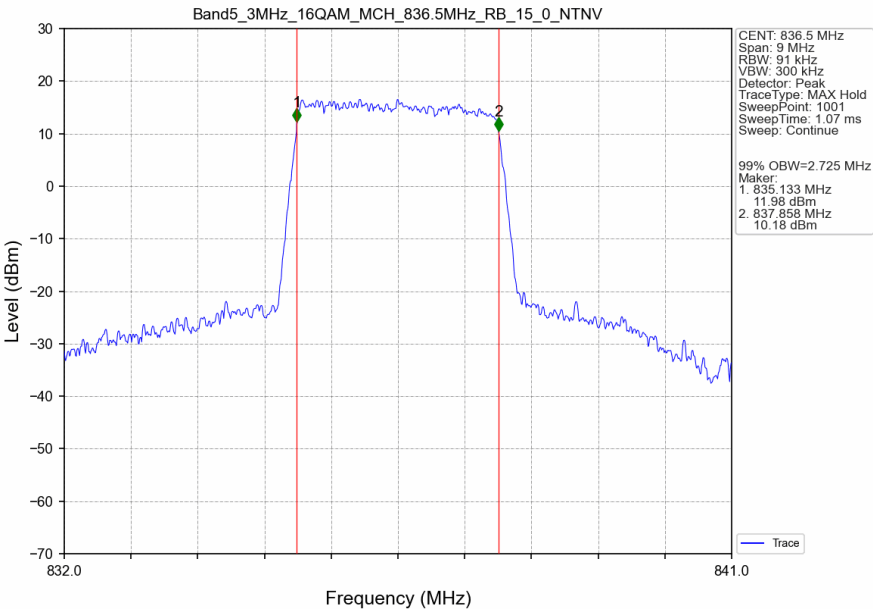
3.2.1 Band5_OBW



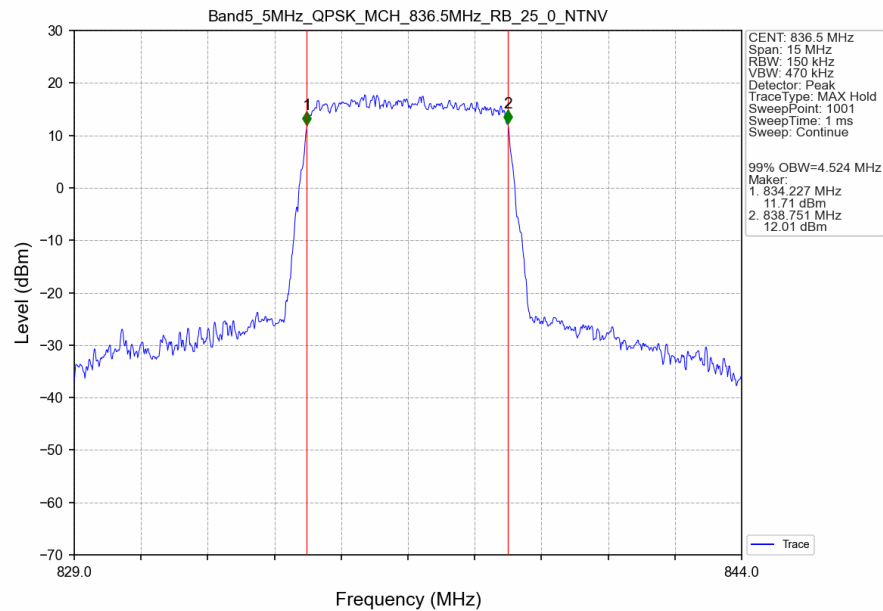
Band5 3MHz QPSK MCH 836.5MHz RB 15 0 NTNV



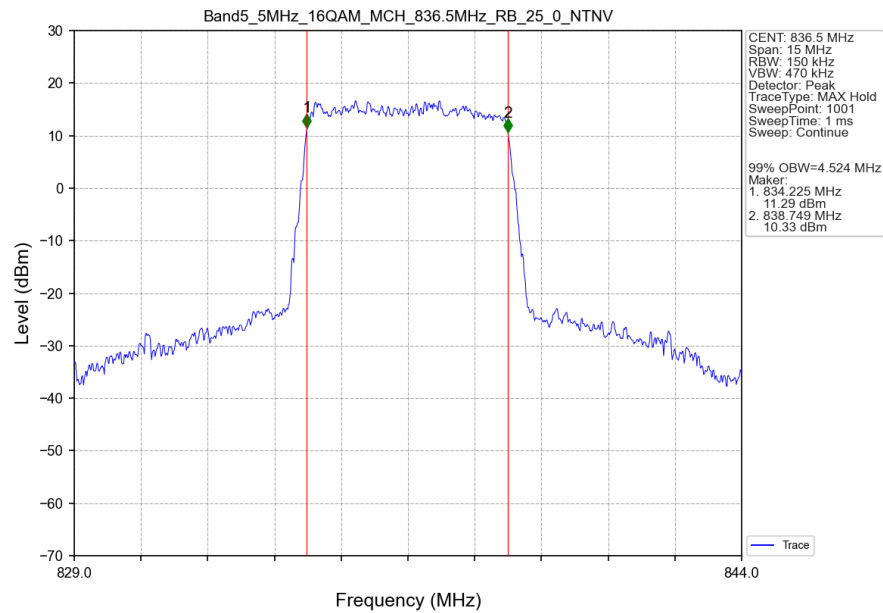
Band5 3MHz 16QAM MCH 836.5MHz RB 15 0 NTNV



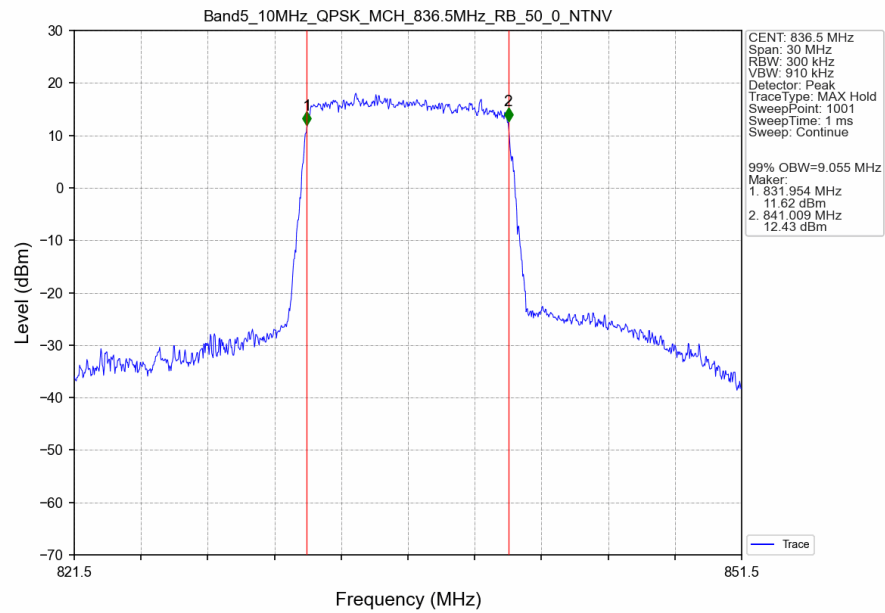
Band5 5MHz QPSK MCH 836.5MHz RB 25 0 NTNV



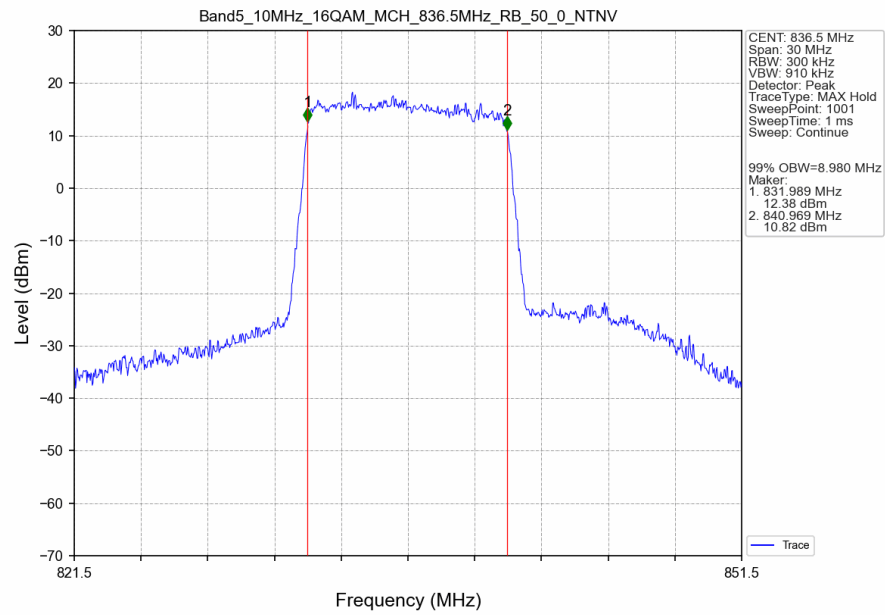
Band5 5MHz 16QAM MCH 836.5MHz RB 25 0 NTNV



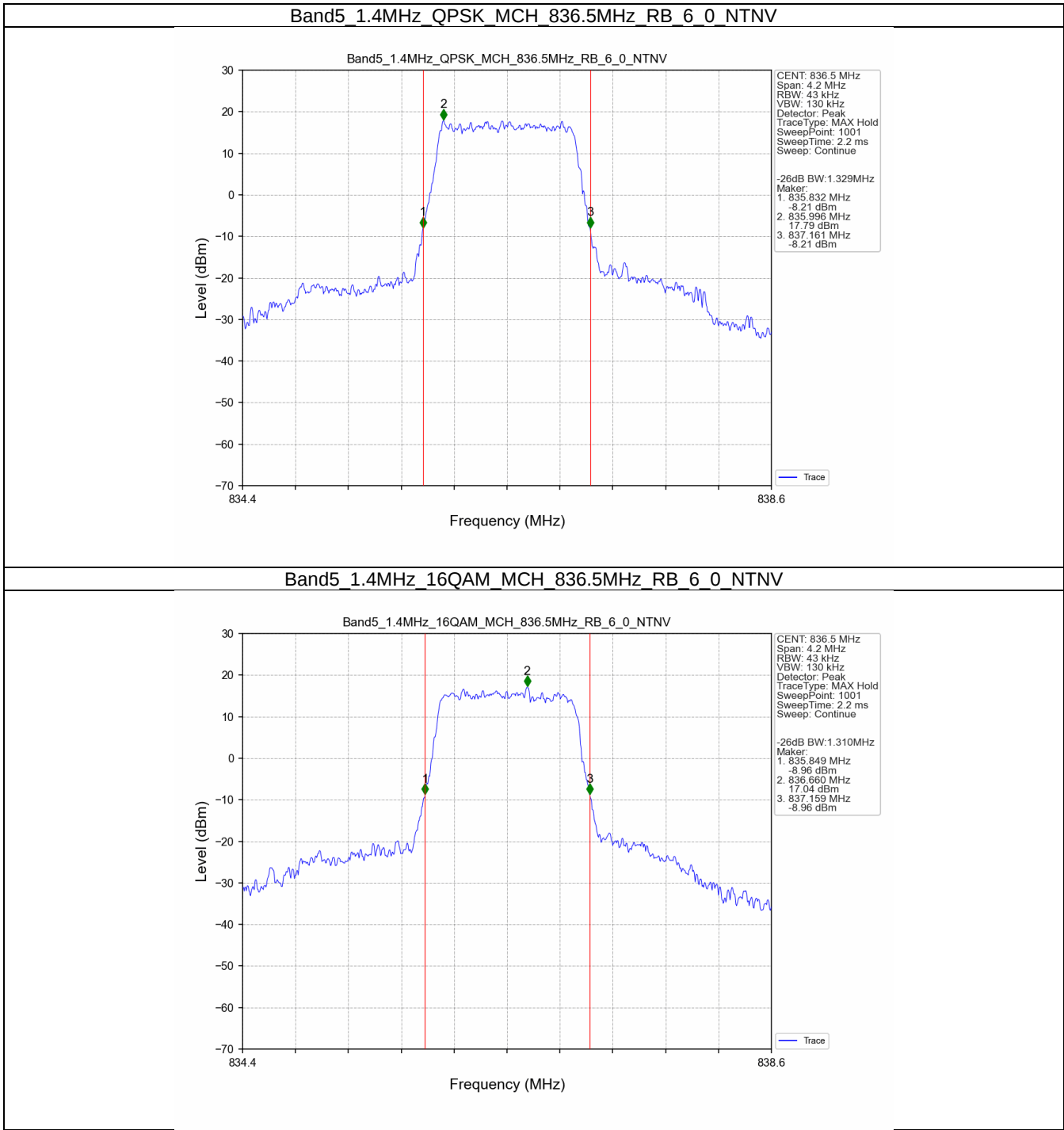
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



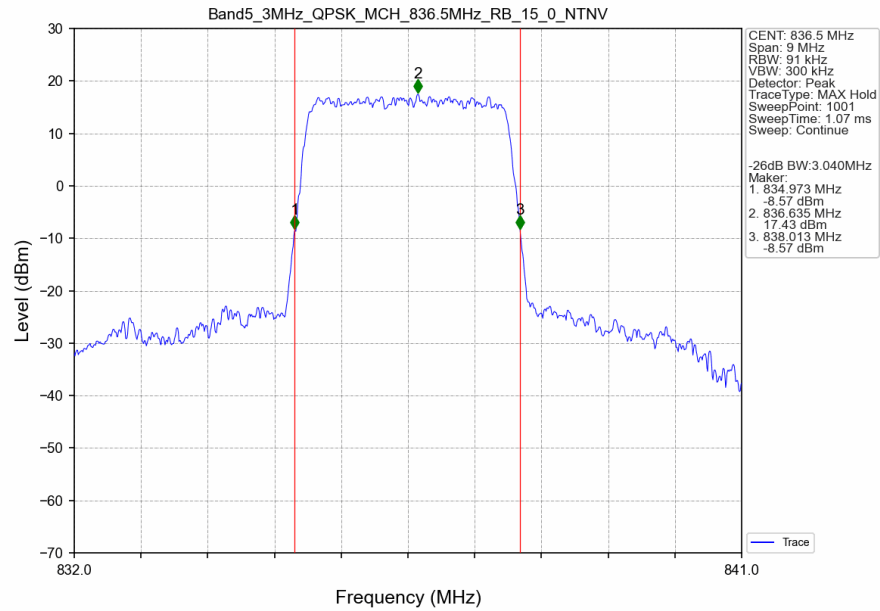
Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



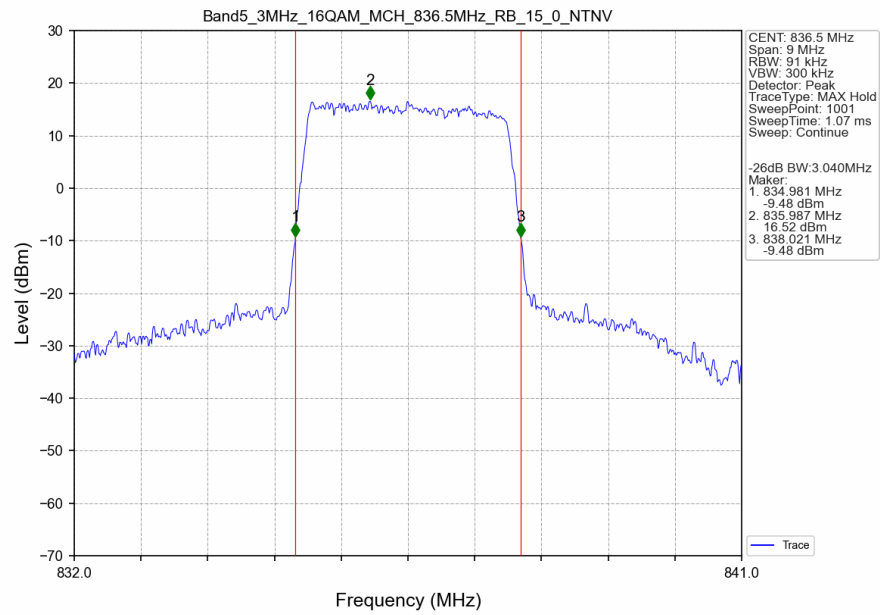
3.2.2 Band5_XDB



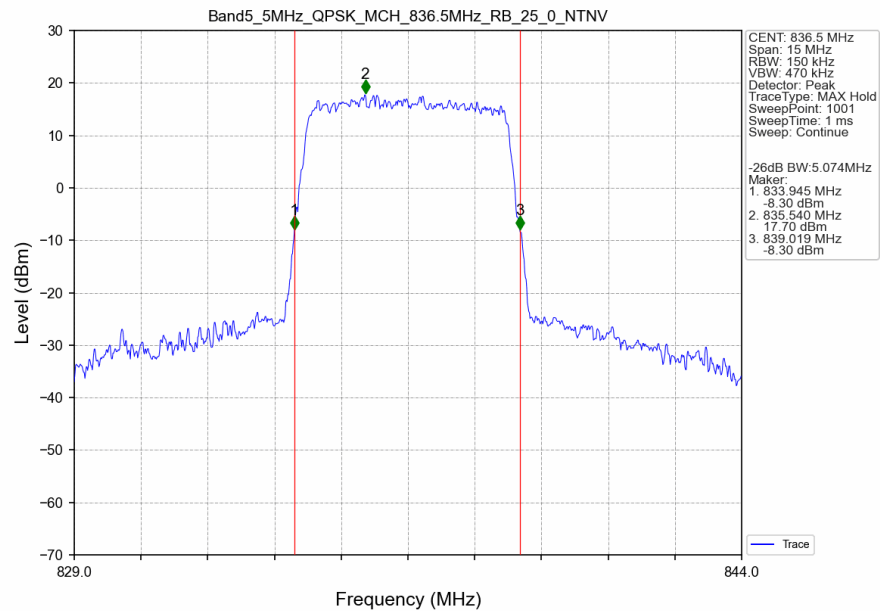
Band5 3MHz QPSK MCH 836.5MHz RB 15 0 NTNV



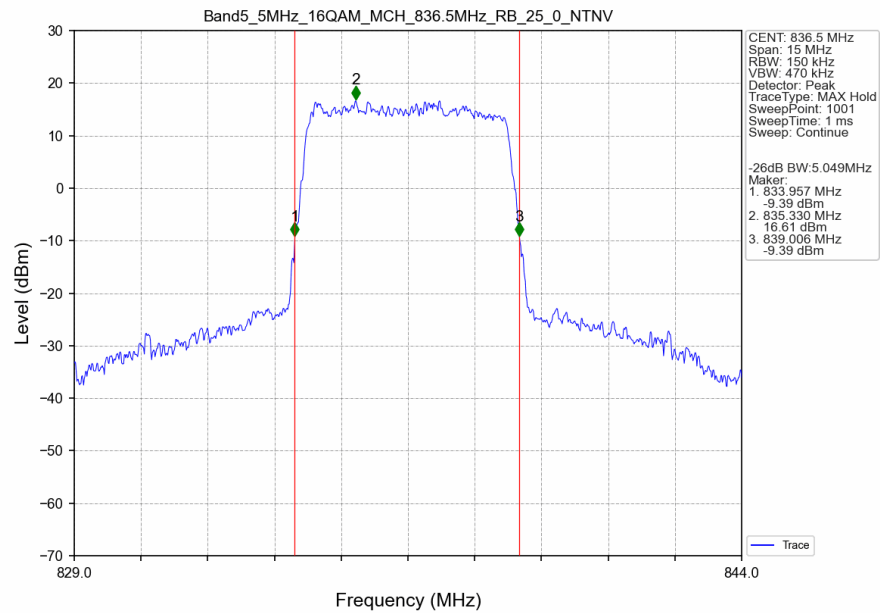
Band5 3MHz 16QAM MCH 836.5MHz RB 15 0 NTNV



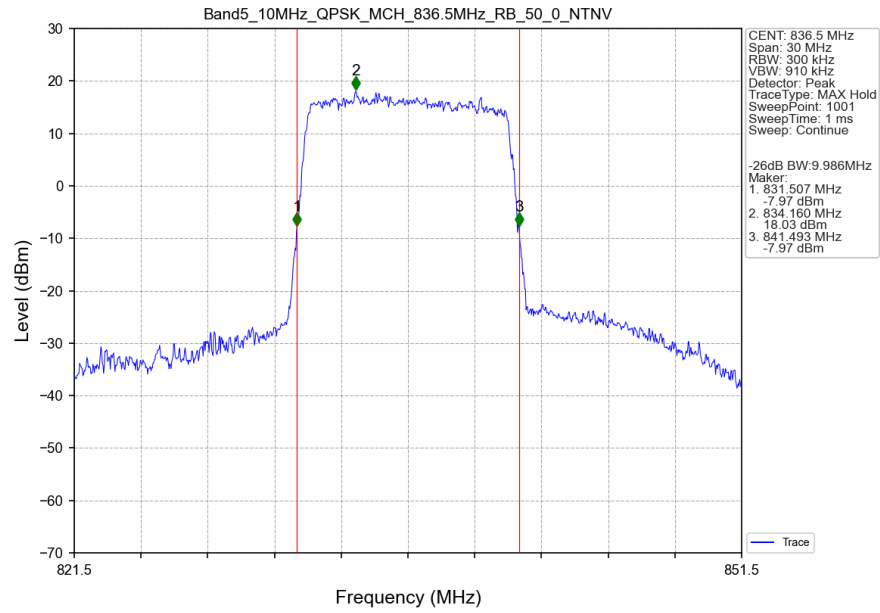
Band5 5MHz QPSK MCH 836.5MHz RB 25 0 NTNV



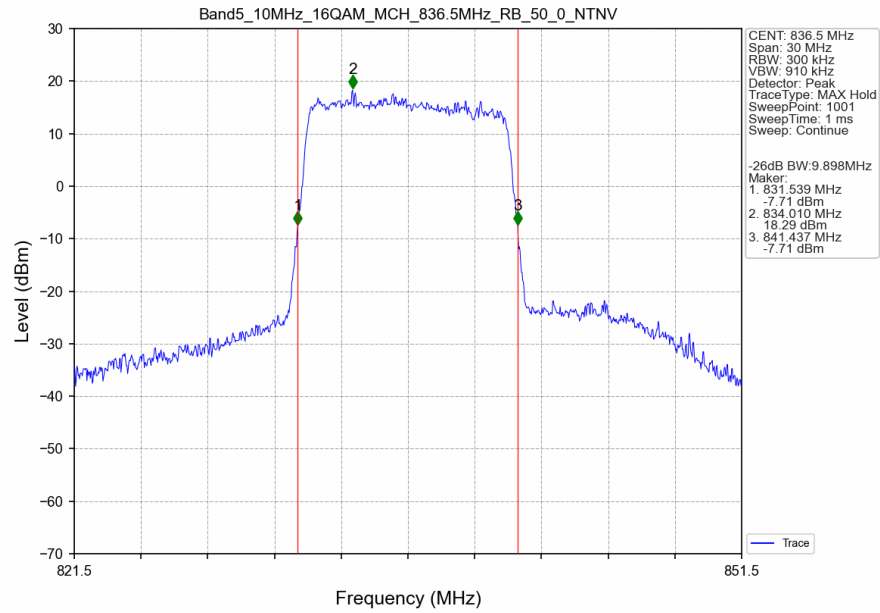
Band5 5MHz 16QAM MCH 836.5MHz RB 25 0 NTNV



Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



4. Peak-Average Ratio

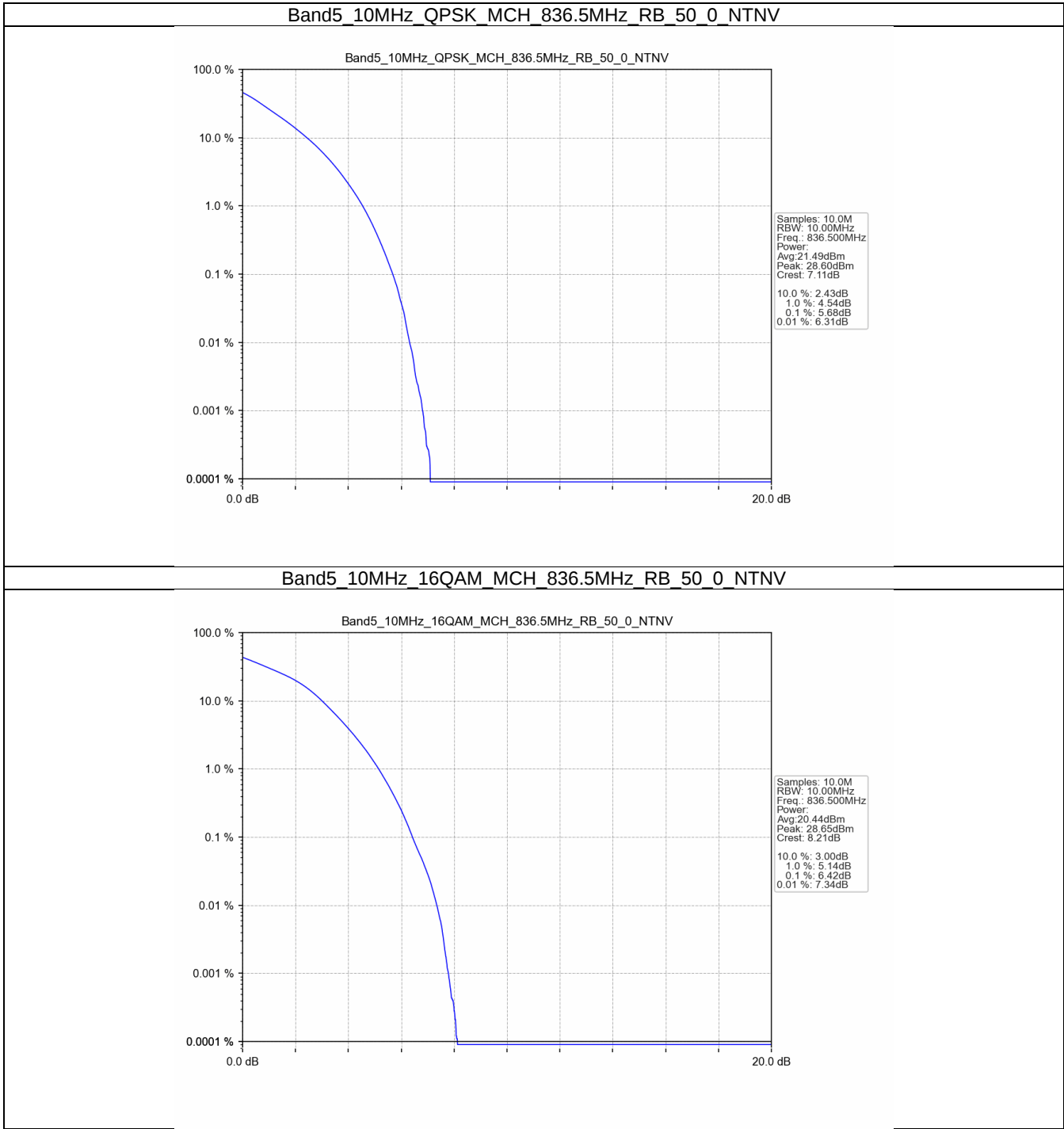
4.1 Test Result

4.1.1 B5_10MHz

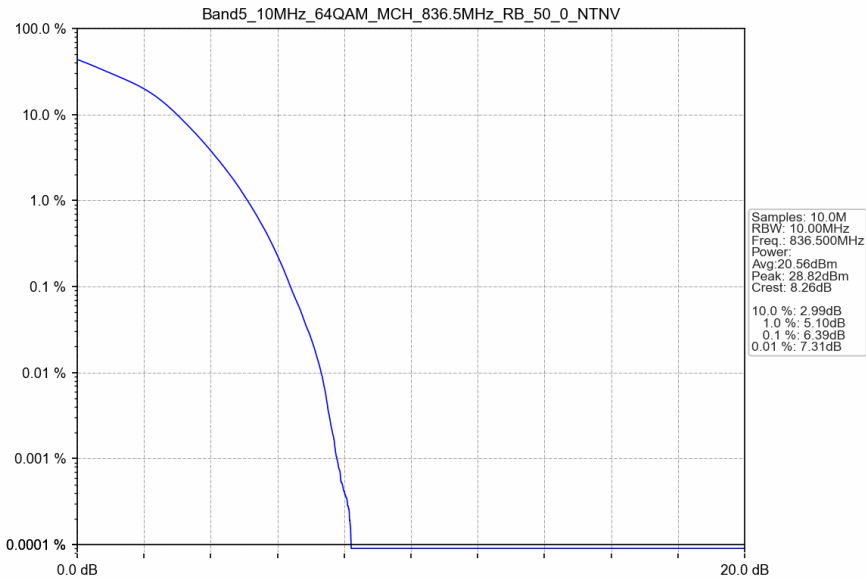
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	5.68	<=13	Pass
16QAM	836.5	50	0	6.42	<=13	Pass
64QAM	836.5	50	0	6.39	<=13	Pass

4.2 Test Graph

4.2.1 B5_10MHz



Band5 10MHz 64QAM MCH 836.5MHz RB 50 0 NTV



5. Spurious Emission

5.1 Test Result

5.1.1 B5_1.4MHz

Band: 5 / Bandwidth: 1.4MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		848.3	1	0	Refer To Test Graph	
	5			Refer To Test Graph		Pass
	6		0	Refer To Test Graph		Pass

5.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

5.1.3 B5_5MHz

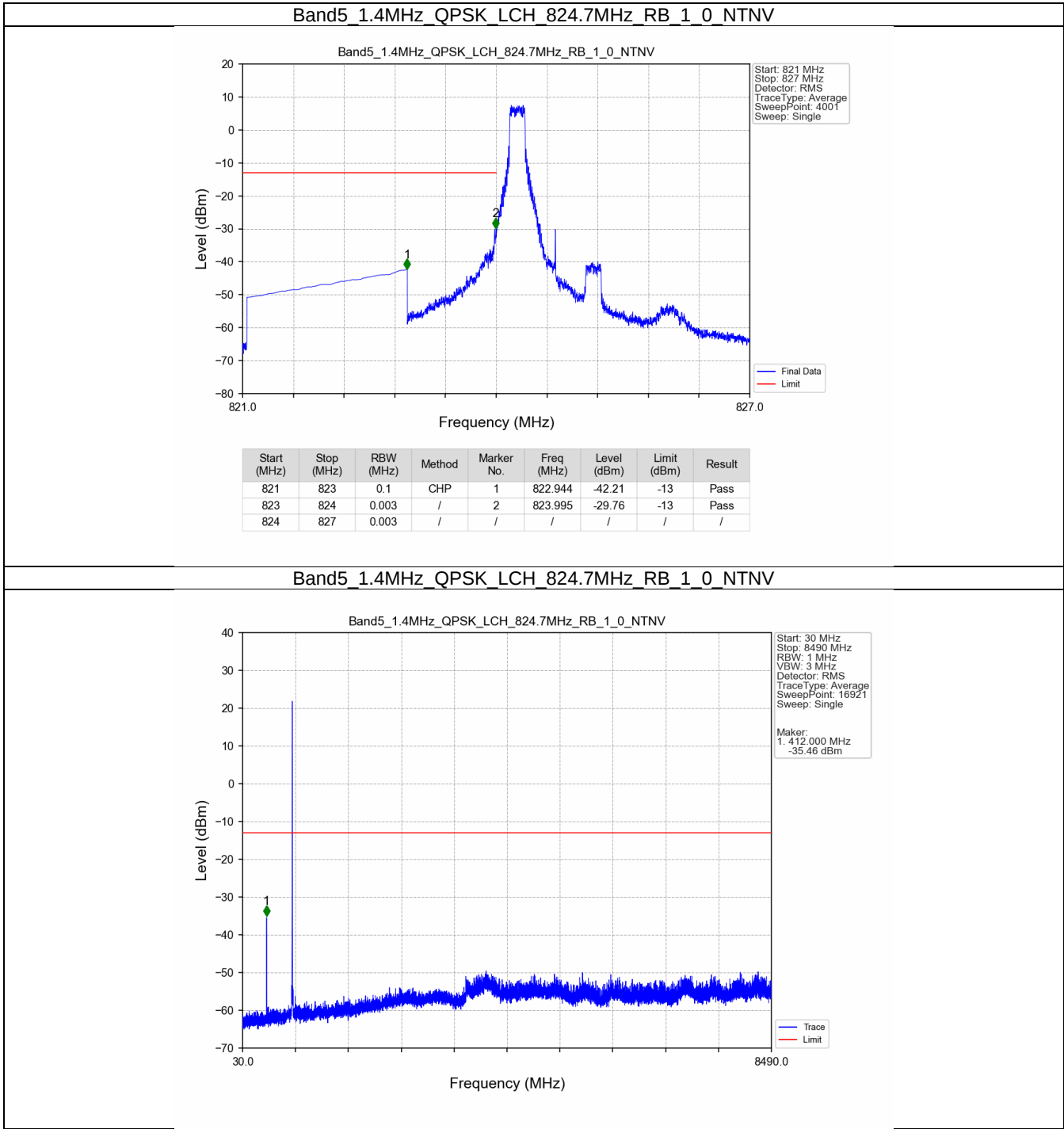
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.4 B5_10MHz

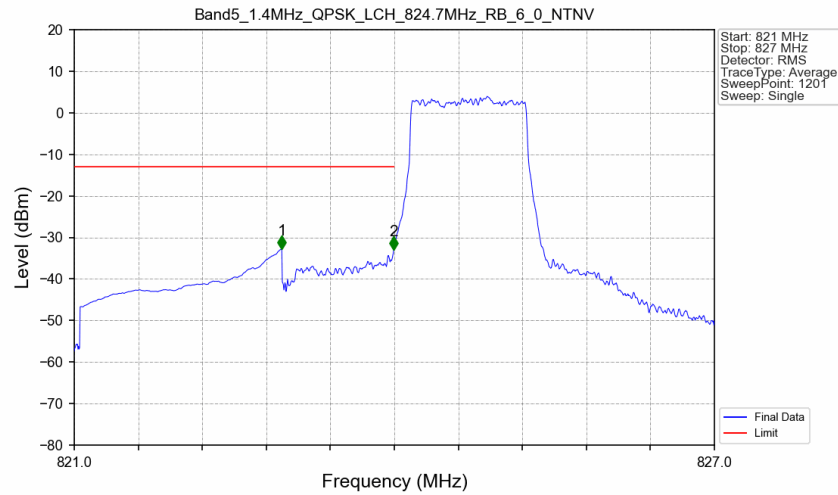
Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	844	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 B5_1.4MHz

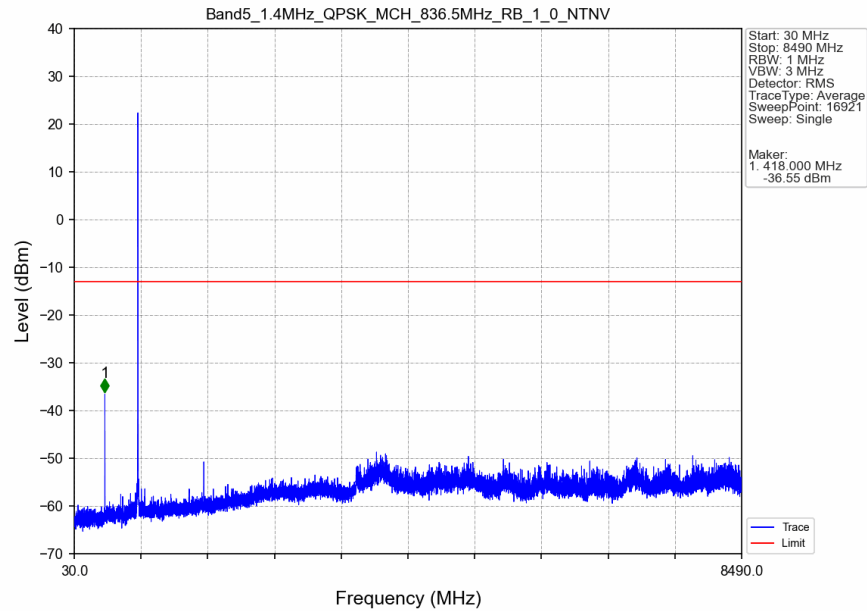


Band5 1.4MHz QPSK LCH 824.7MHz RB 6 0 NTN

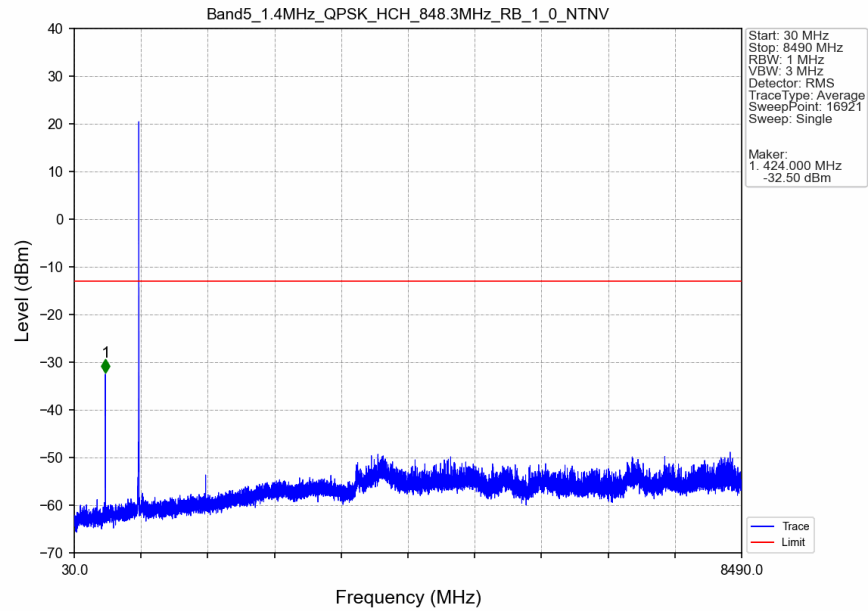


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.945	-32.76	-13	Pass
823	824	0.013	CHP	2	823.995	-32.87	-13	Pass
824	827	0.013	CHP	/	/	/	/	/

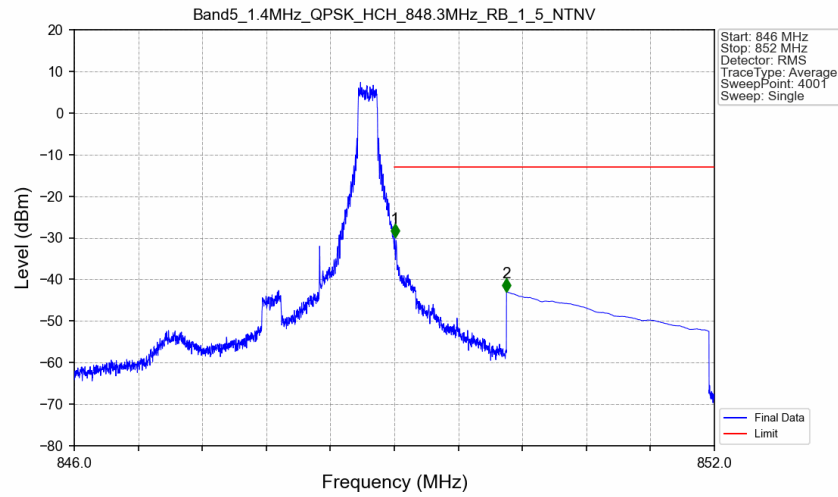
Band5 1.4MHz QPSK MCH 836.5MHz RB 1 0 NTN



Band5 1.4MHz QPSK HCH 848.3MHz RB 1 0 NTN

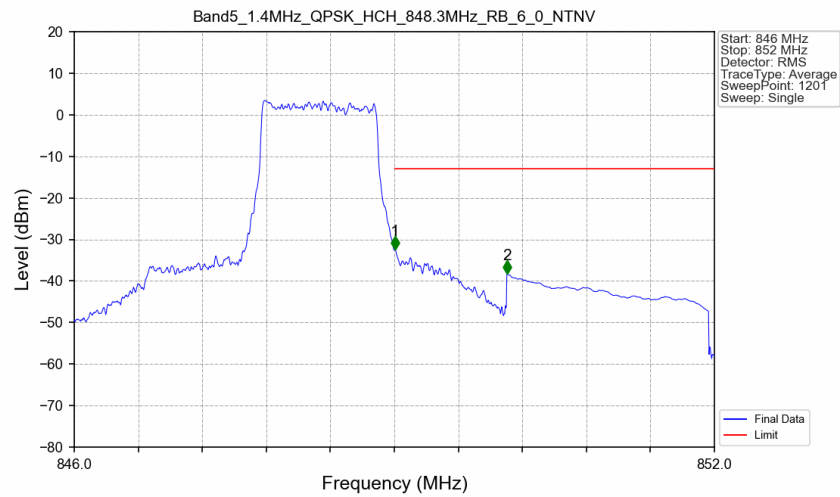


Band5 1.4MHz QPSK HCH 848.3MHz RB 1 5 NTN



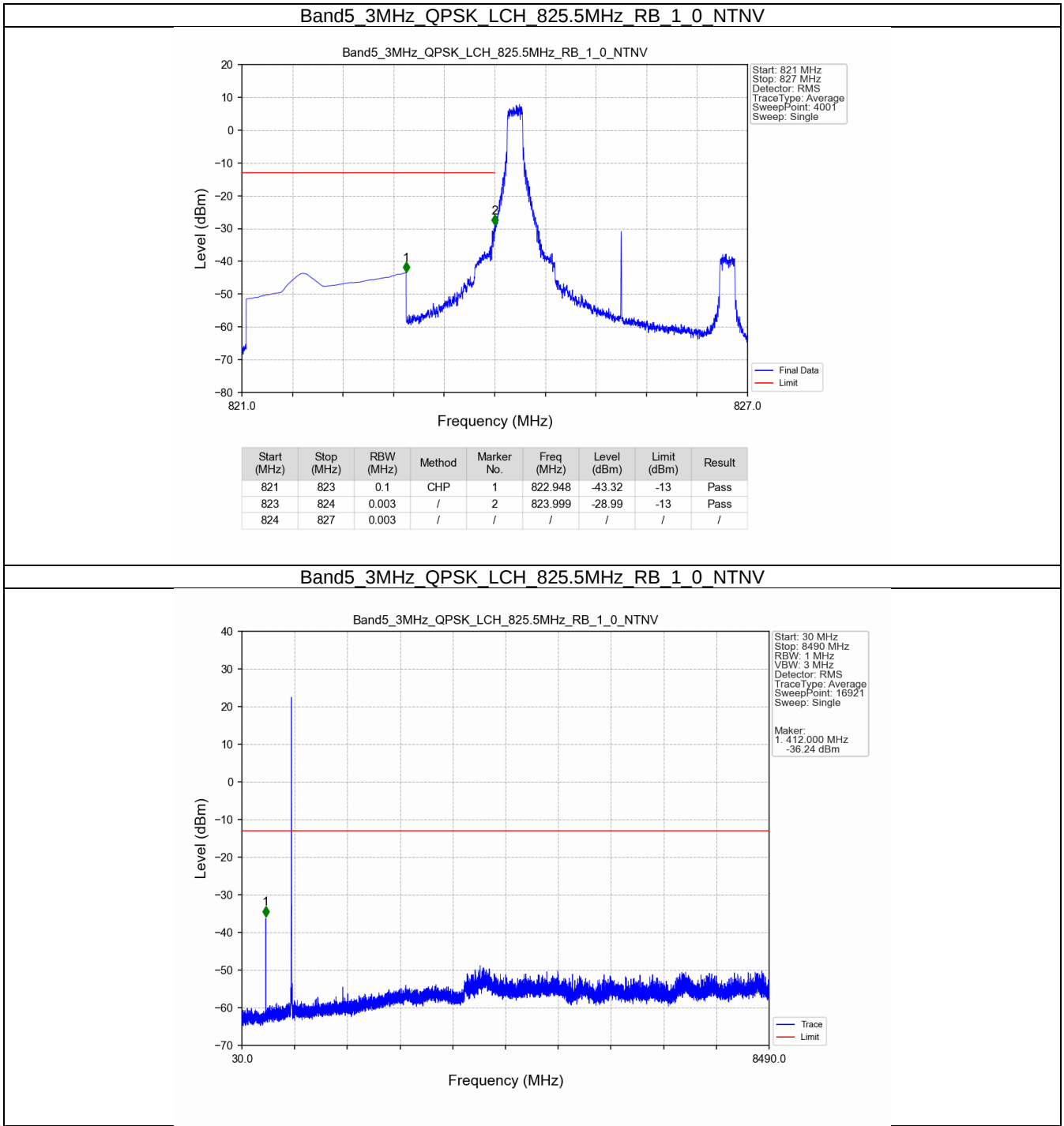
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.005	-29.93	-13	Pass
850	852	0.1	CHP	2	850.052	-43.03	-13	Pass

Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN

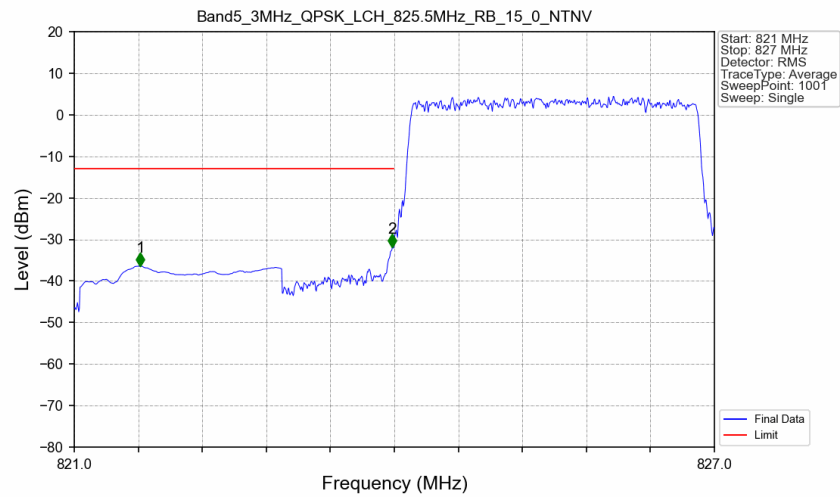


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.013	CHP	/	/	/	/	/
849	850	0.013	CHP	1	849.005	-32.35	-13	Pass
850	852	0.1	CHP	2	850.055	-38.19	-13	Pass

5.2.2 B5_3MHz

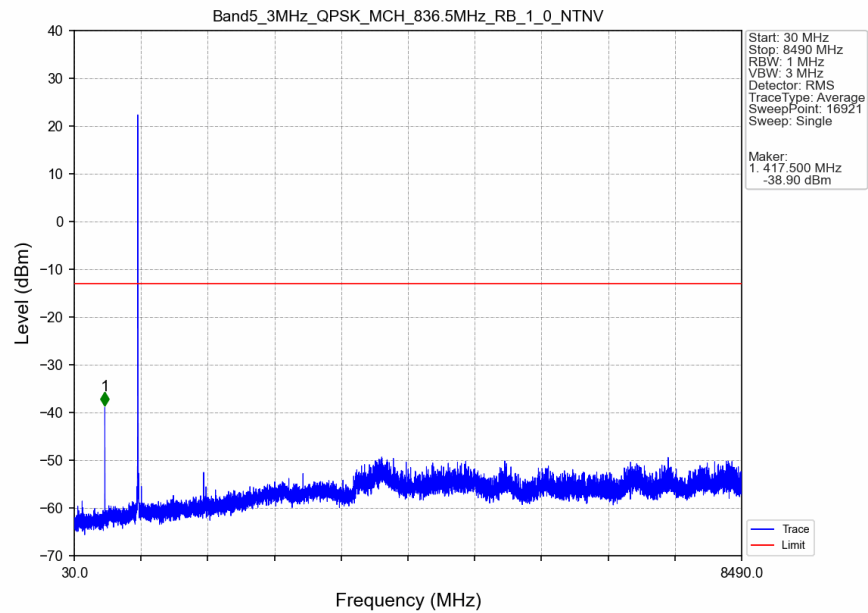


Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

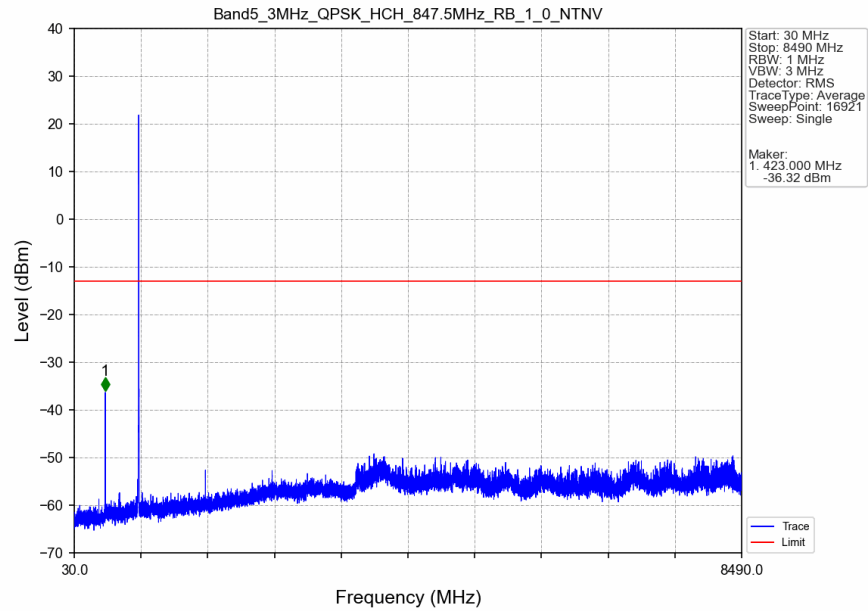


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	821.618	-36.42	-13	Pass
823	824	0.03	/	2	823.982	-31.77	-13	Pass
824	827	0.03	/	/	/	/	/	/

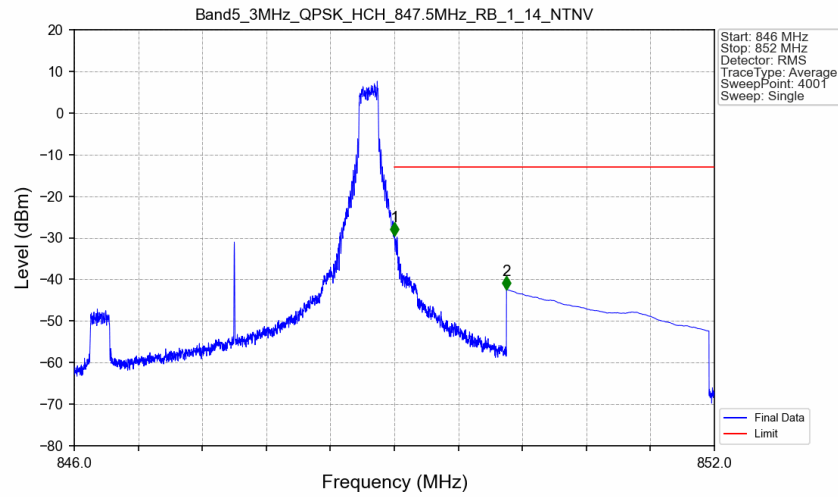
Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5 3MHz QPSK HCH 847.5MHz RB 1 0 NTN

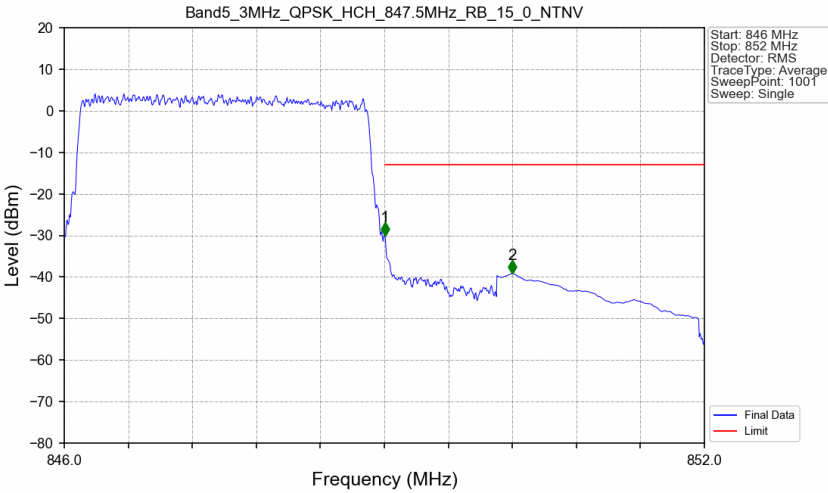


Band5_3MHz QPSK HCH 847.5MHz RB 1 14 NTN



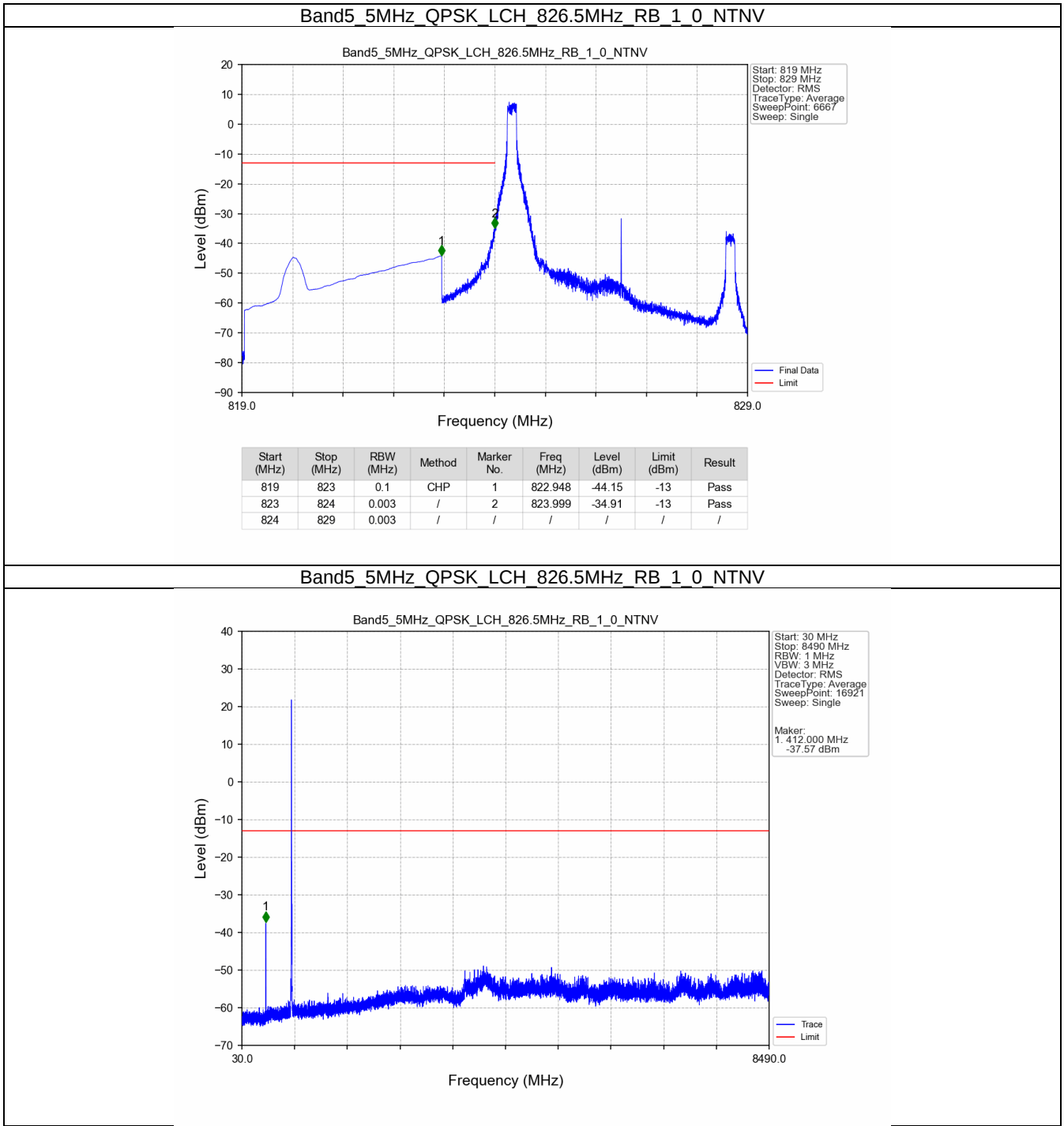
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-29.44	-13	Pass
850	852	0.1	CHP	2	850.052	-42.36	-13	Pass

Band5 3MHz QPSK HCH 847.5MHz RB 15 0 NTN

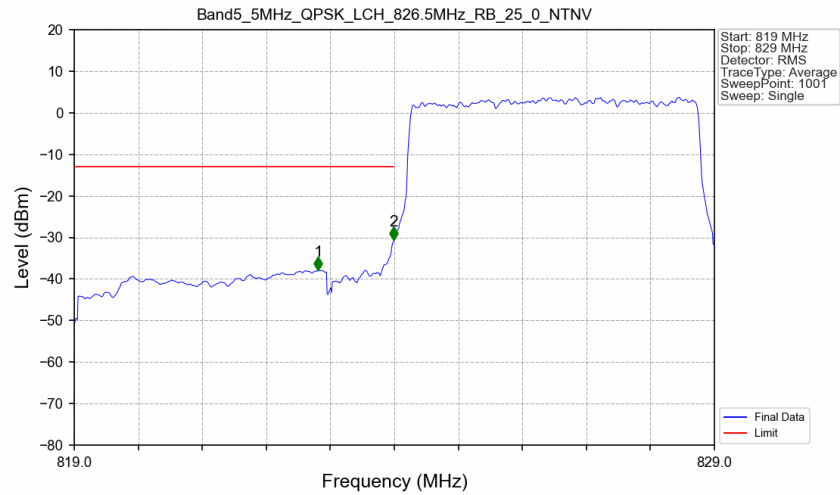


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.006	-30.12	-13	Pass
850	852	0.1	CHP	2	850.200	-39.21	-13	Pass

5.2.3 B5_5MHz

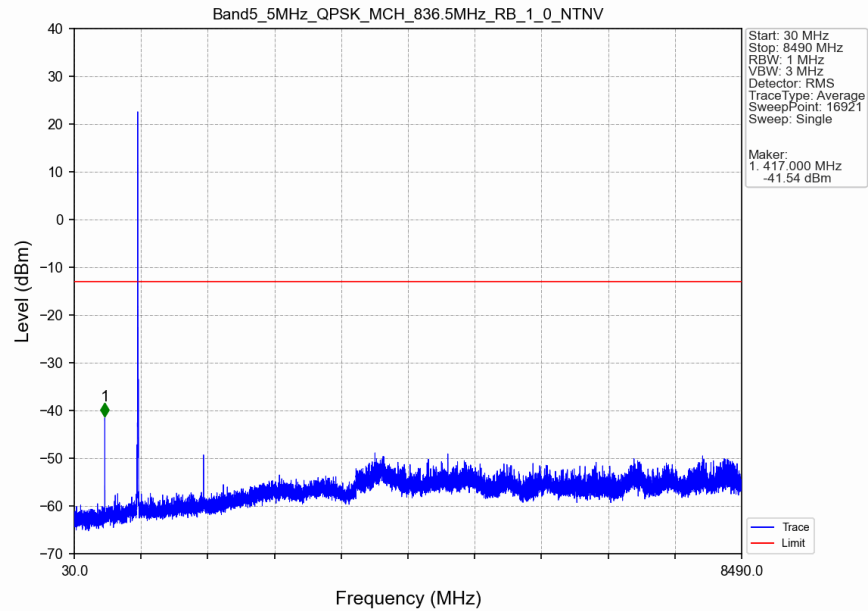


Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV

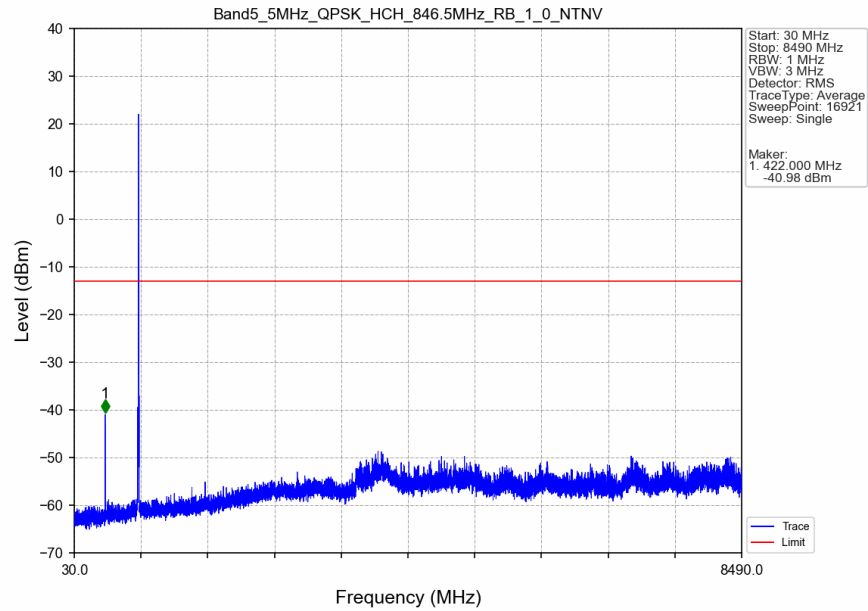


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.810	-37.93	-13	Pass
823	824	0.051	CHP	2	823.990	-30.64	-13	Pass
824	829	0.051	CHP	/	/	/	/	/

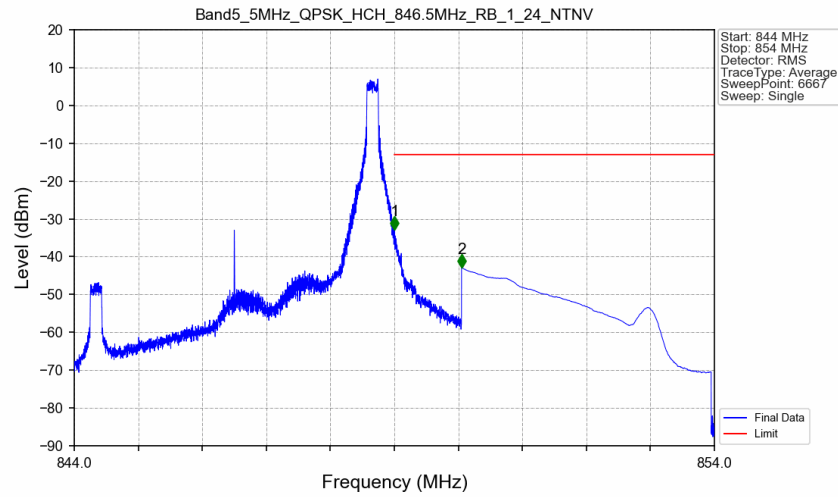
Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5 5MHz QPSK HCH 846.5MHz RB 1 0 NTN

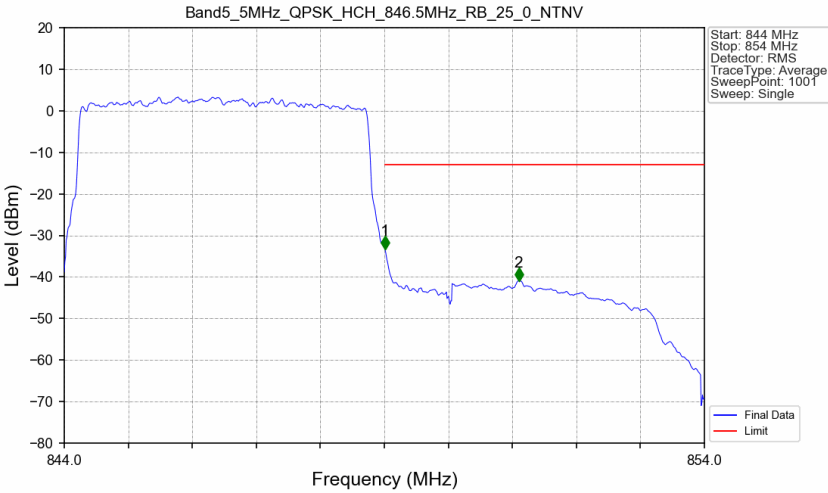


Band5_5MHz QPSK HCH 846.5MHz RB 1 24 NTN



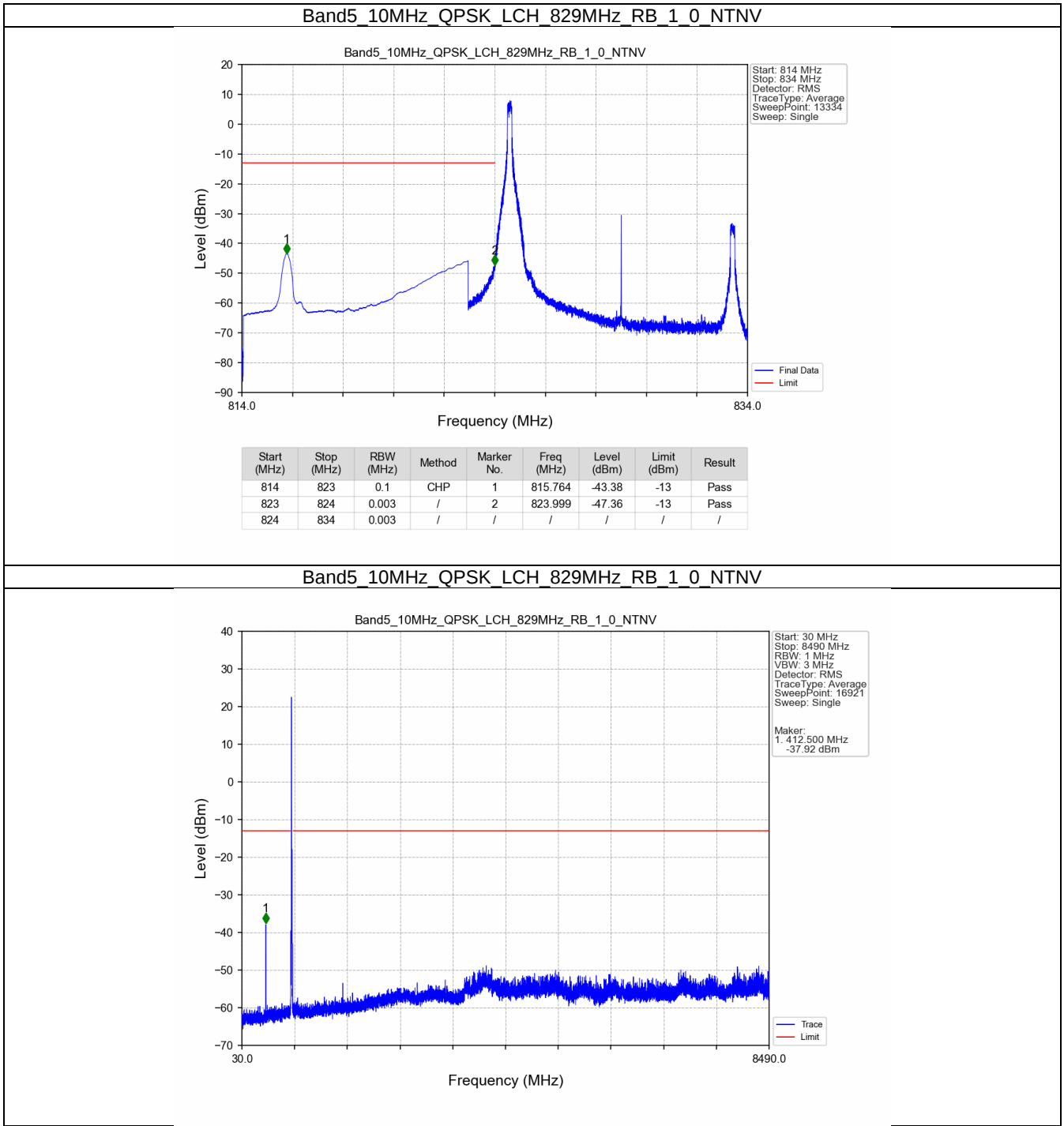
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-32.83	-13	Pass
850	854	0.1	CHP	2	850.050	-42.93	-13	Pass

Band5 5MHz QPSK HCH 846.5MHz RB 25 0 NTN

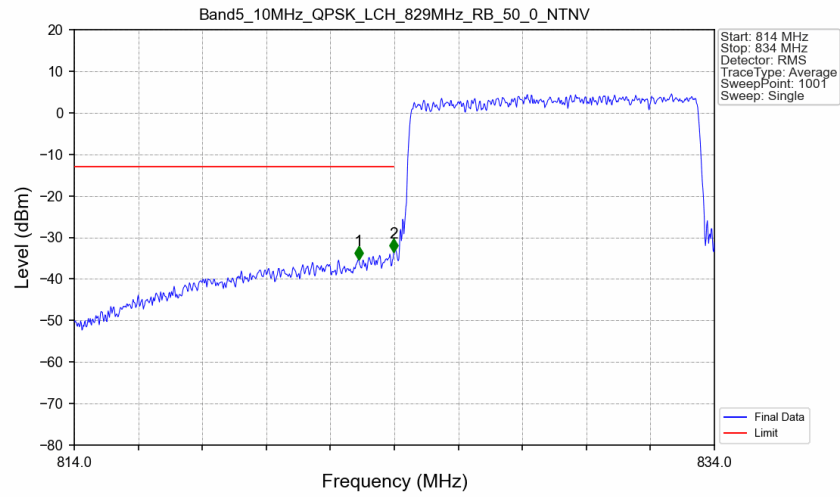


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.05	CHP	/	/	/	/	/
849	850	0.05	CHP	1	849.010	-33.28	-13	Pass
850	854	0.1	CHP	2	851.100	-40.91	-13	Pass

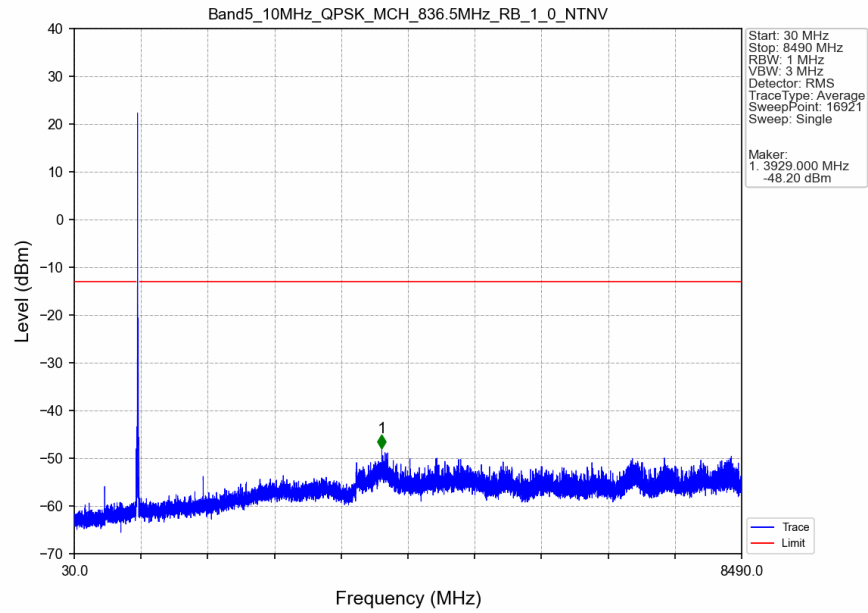
5.2.4 B5_10MHz



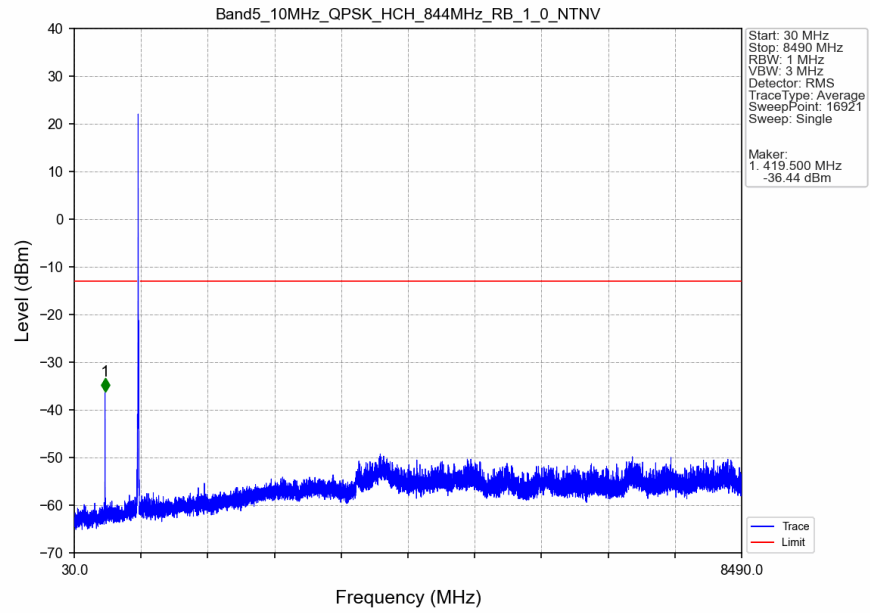
Band5 10MHz QPSK LCH 829MHz RB 50 0 NTN



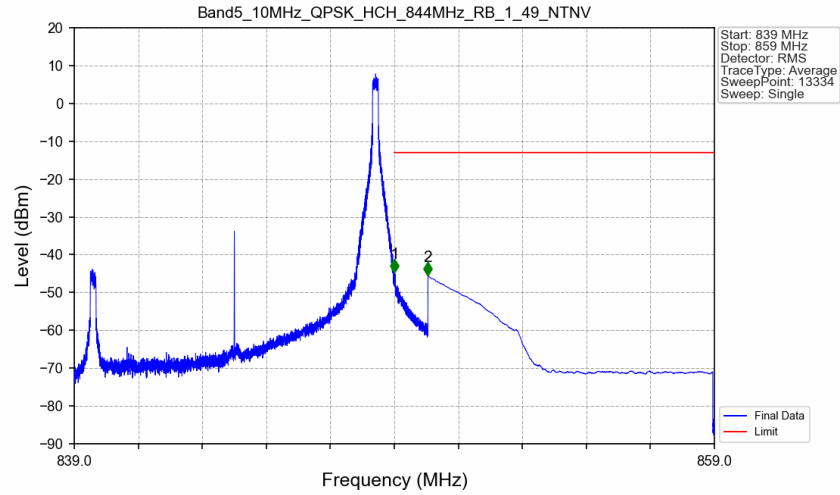
Band5 10MHz QPSK MCH 836.5MHz RB 1 0 NTN



Band5 10MHz QPSK HCH 844MHz RB 1 0 NTNV

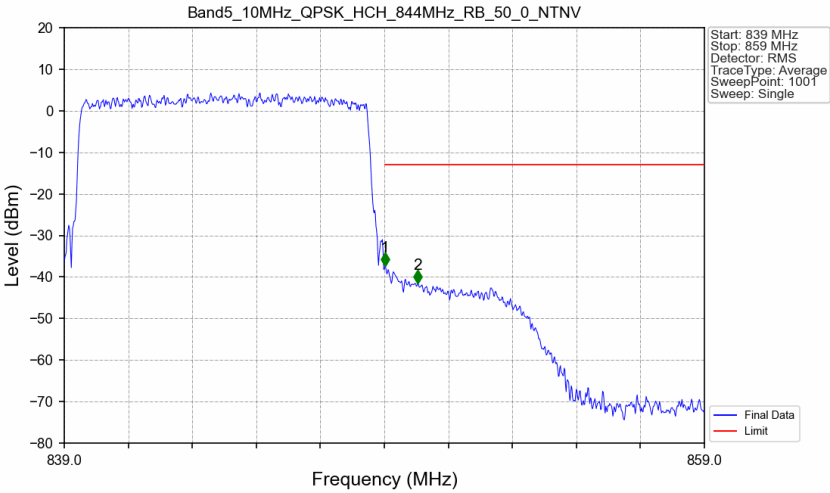


Band5 10MHz QPSK HCH 844MHz RB 1 49 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.002	-44.75	-13	Pass
850	859	0.1	CHP	2	850.051	-45.43	-13	Pass

Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.1	/	/	/	/	/	/
849	850	0.1	/	1	849.020	-37.24	-13	Pass
850	859	0.1	/	2	850.040	-41.51	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 5-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1649.0	-60.79	-13	-47.79	-63.67	2.62	5.5	Horizontal	Pass
2473.5	-69.57	-13	-56.57	-72.27	3.06	5.76	Horizontal	Pass
3298.0	-67.01	-13	-54.01	-71.37	3.3	7.66	Horizontal	Pass
1649.0	-62.24	-13	-49.24	-65.12	2.62	5.5	Vertical	Pass
2473.5	-68.69	-13	-55.69	-71.39	3.06	5.76	Vertical	Pass
3298.0	-67.27	-13	-54.27	-71.63	3.3	7.66	Vertical	Pass

LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1664.0	-60.1	-13	-47.1	-62.94	2.63	5.47	Horizontal	Pass
2496.0	-67.7	-13	-54.7	-70.43	3.08	5.81	Horizontal	Pass
3328.0	-65.15	-13	-52.15	-69.58	3.31	7.74	Horizontal	Pass
1664.0	-58.73	-13	-45.73	-61.57	2.63	5.47	Vertical	Pass
2496.0	-62.6	-13	-49.6	-65.33	3.08	5.81	Vertical	Pass
3328.0	-66.6	-13	-53.6	-71.03	3.31	7.74	Vertical	Pass

LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1679.0	-61.79	-13	-48.79	-64.59	2.63	5.43	Horizontal	Pass
2518.5	-66.71	-13	-53.71	-69.49	3.08	5.86	Horizontal	Pass
3358.0	-66.82	-13	-53.82	-71.31	3.33	7.82	Horizontal	Pass
1679.0	-64.21	-13	-51.21	-67.01	2.63	5.43	Vertical	Pass
2518.5	-65.58	-13	-52.58	-68.36	3.08	5.86	Vertical	Pass
3358.0	-66.94	-13	-53.94	-71.43	3.33	7.82	Vertical	Pass

Note: External Antenna is the worst case, only the worst case test data were recorded in this report.

7. Effective (Isotropic) Radiated Power Output Data (Internal Antenna)

7.1 Test Result

7.1.1 B5_1.4MHz_ERP

Band: 5 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	824.7	1	0	23.20	0.39	21.44	<=38.45	Pass
			2	23.20	0.39	21.44	<=38.45	Pass
			5	23.11	0.39	21.35	<=38.45	Pass
		3	0	23.15	0.39	21.39	<=38.45	Pass
			2	23.14	0.39	21.38	<=38.45	Pass
			3	23.10	0.39	21.34	<=38.45	Pass
		6	0	22.11	0.39	20.35	<=38.45	Pass
	836.5	1	0	23.08	0.39	21.32	<=38.45	Pass
			2	23.07	0.39	21.31	<=38.45	Pass
			5	23.11	0.39	21.35	<=38.45	Pass
		3	0	23.05	0.39	21.29	<=38.45	Pass
			2	23.19	0.39	21.43	<=38.45	Pass
			3	23.09	0.39	21.33	<=38.45	Pass
		6	0	22.23	0.39	20.47	<=38.45	Pass
	848.3	1	0	22.80	0.39	21.04	<=38.45	Pass
			2	23.13	0.39	21.37	<=38.45	Pass
			5	23.01	0.39	21.25	<=38.45	Pass
		3	0	23.01	0.39	21.25	<=38.45	Pass
			2	22.91	0.39	21.15	<=38.45	Pass
			3	22.96	0.39	21.20	<=38.45	Pass
		6	0	21.98	0.39	20.22	<=38.45	Pass
16QAM	824.7	1	0	21.59	0.39	19.83	<=38.45	Pass
			2	21.86	0.39	20.10	<=38.45	Pass
			5	21.58	0.39	19.82	<=38.45	Pass
		3	0	21.84	0.39	20.08	<=38.45	Pass
			2	22.14	0.39	20.38	<=38.45	Pass
			3	22.15	0.39	20.39	<=38.45	Pass
		6	0	20.98	0.39	19.22	<=38.45	Pass
	836.5	1	0	21.80	0.39	20.04	<=38.45	Pass
			2	21.77	0.39	20.01	<=38.45	Pass
			5	21.69	0.39	19.93	<=38.45	Pass
		3	0	21.99	0.39	20.23	<=38.45	Pass
			2	22.10	0.39	20.34	<=38.45	Pass
			3	22.08	0.39	20.32	<=38.45	Pass
		6	0	21.13	0.39	19.37	<=38.45	Pass
	848.3	1	0	21.70	0.39	19.94	<=38.45	Pass
			2	21.44	0.39	19.68	<=38.45	Pass
			5	21.58	0.39	19.82	<=38.45	Pass
		3	0	21.92	0.39	20.16	<=38.45	Pass
			2	22.00	0.39	20.24	<=38.45	Pass
			3	21.78	0.39	20.02	<=38.45	Pass
		6	0	21.13	0.39	19.37	<=38.45	Pass
64QAM	824.7	1	0	21.93	0.39	20.17	<=38.45	Pass
			2	21.78	0.39	20.02	<=38.45	Pass
			5	21.86	0.39	20.10	<=38.45	Pass
		3	0	21.92	0.39	20.16	<=38.45	Pass
			0	21.92	0.39	20.16	<=38.45	Pass

		6	2	22.11	0.39	20.35	<=38.45	Pass
			3	22.10	0.39	20.34	<=38.45	Pass
			0	21.06	0.39	19.30	<=38.45	Pass
	836.5	1	0	21.81	0.39	20.05	<=38.45	Pass
			2	21.40	0.39	19.64	<=38.45	Pass
			5	21.78	0.39	20.02	<=38.45	Pass
		3	0	21.98	0.39	20.22	<=38.45	Pass
			2	21.98	0.39	20.22	<=38.45	Pass
			3	22.05	0.39	20.29	<=38.45	Pass
		6	0	21.11	0.39	19.35	<=38.45	Pass
	848.3	1	0	21.57	0.39	19.81	<=38.45	Pass
			2	21.74	0.39	19.98	<=38.45	Pass
			5	21.45	0.39	19.69	<=38.45	Pass
		3	0	21.75	0.39	19.99	<=38.45	Pass
			2	21.94	0.39	20.18	<=38.45	Pass
			3	21.90	0.39	20.14	<=38.45	Pass
		6	0	21.05	0.39	19.29	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

7.1.2 B5_3MHz_ERP

Band: 5 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	825.5	1	0	23.19	0.39	21.43	<=38.45	Pass
			7	23.59	0.39	21.83	<=38.45	Pass
			14	23.39	0.39	21.63	<=38.45	Pass
		8	0	22.20	0.39	20.44	<=38.45	Pass
			4	22.24	0.39	20.48	<=38.45	Pass
			7	22.11	0.39	20.35	<=38.45	Pass
		15	0	22.08	0.39	20.32	<=38.45	Pass
	836.5	1	0	22.99	0.39	21.23	<=38.45	Pass
			7	23.16	0.39	21.40	<=38.45	Pass
			14	22.98	0.39	21.22	<=38.45	Pass
		8	0	22.03	0.39	20.27	<=38.45	Pass
			4	21.98	0.39	20.22	<=38.45	Pass
			7	22.05	0.39	20.29	<=38.45	Pass
		15	0	21.98	0.39	20.22	<=38.45	Pass
	847.5	1	0	23.05	0.39	21.29	<=38.45	Pass
			7	23.05	0.39	21.29	<=38.45	Pass
			14	22.92	0.39	21.16	<=38.45	Pass
		8	0	22.05	0.39	20.29	<=38.45	Pass
			4	21.90	0.39	20.14	<=38.45	Pass
			7	21.92	0.39	20.16	<=38.45	Pass
		15	0	22.00	0.39	20.24	<=38.45	Pass
16QAM	825.5	1	0	21.54	0.39	19.78	<=38.45	Pass
			7	21.98	0.39	20.22	<=38.45	Pass
			14	21.74	0.39	19.98	<=38.45	Pass
		8	0	20.78	0.39	19.02	<=38.45	Pass
			4	20.89	0.39	19.13	<=38.45	Pass
			7	20.81	0.39	19.05	<=38.45	Pass
		15	0	20.83	0.39	19.07	<=38.45	Pass
	836.5	1	0	21.65	0.39	19.89	<=38.45	Pass
			7	21.84	0.39	20.08	<=38.45	Pass
			14	21.60	0.39	19.84	<=38.45	Pass
		8	0	21.03	0.39	19.27	<=38.45	Pass
			4	20.99	0.39	19.23	<=38.45	Pass

			7	21.08	0.39	19.32	<=38.45	Pass
		15	0	21.08	0.39	19.32	<=38.45	Pass
	847.5	1	0	21.68	0.39	19.92	<=38.45	Pass
			7	21.58	0.39	19.82	<=38.45	Pass
			14	21.25	0.39	19.49	<=38.45	Pass
		8	0	20.93	0.39	19.17	<=38.45	Pass
			4	20.87	0.39	19.11	<=38.45	Pass
			7	20.98	0.39	19.22	<=38.45	Pass
		15	0	20.95	0.39	19.19	<=38.45	Pass
	64QAM	825.5	1	0	21.33	0.39	19.57	<=38.45
7				21.96	0.39	20.20	<=38.45	Pass
14				21.30	0.39	19.54	<=38.45	Pass
8			0	21.05	0.39	19.29	<=38.45	Pass
			4	21.08	0.39	19.32	<=38.45	Pass
			7	21.06	0.39	19.30	<=38.45	Pass
15			0	21.10	0.39	19.34	<=38.45	Pass
836.5		1	0	21.53	0.39	19.77	<=38.45	Pass
			7	21.57	0.39	19.81	<=38.45	Pass
			14	21.32	0.39	19.56	<=38.45	Pass
		8	0	20.59	0.39	18.83	<=38.45	Pass
			4	20.72	0.39	18.96	<=38.45	Pass
			7	20.58	0.39	18.82	<=38.45	Pass
		15	0	20.92	0.39	19.16	<=38.45	Pass
847.5		1	0	21.57	0.39	19.81	<=38.45	Pass
			7	21.59	0.39	19.83	<=38.45	Pass
			14	21.30	0.39	19.54	<=38.45	Pass
		8	0	20.97	0.39	19.21	<=38.45	Pass
			4	20.79	0.39	19.03	<=38.45	Pass
			7	20.67	0.39	18.91	<=38.45	Pass
		15	0	20.91	0.39	19.15	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

7.1.3 B5_5MHz_ERP

Band: 5 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	826.5	1	0	22.93	0.39	21.17	<=38.45	Pass
			13	23.08	0.39	21.32	<=38.45	Pass
			24	23.04	0.39	21.28	<=38.45	Pass
		12	0	22.03	0.39	20.27	<=38.45	Pass
			6	22.11	0.39	20.35	<=38.45	Pass
			13	22.06	0.39	20.30	<=38.45	Pass
		25	0	21.95	0.39	20.19	<=38.45	Pass
	836.5	1	0	23.01	0.39	21.25	<=38.45	Pass
			13	23.15	0.39	21.39	<=38.45	Pass
			24	22.98	0.39	21.22	<=38.45	Pass
		12	0	21.98	0.39	20.22	<=38.45	Pass
			6	22.05	0.39	20.29	<=38.45	Pass
			13	21.92	0.39	20.16	<=38.45	Pass
		25	0	21.95	0.39	20.19	<=38.45	Pass
	846.5	1	0	22.93	0.39	21.17	<=38.45	Pass
			13	23.11	0.39	21.35	<=38.45	Pass
			24	22.89	0.39	21.13	<=38.45	Pass
		12	0	22.02	0.39	20.26	<=38.45	Pass
			6	21.96	0.39	20.20	<=38.45	Pass
			13	21.83	0.39	20.07	<=38.45	Pass

		25	0	21.92	0.39	20.16	<=38.45	Pass	
16QAM	826.5	1	0	21.31	0.39	19.55	<=38.45	Pass	
			13	21.90	0.39	20.14	<=38.45	Pass	
			24	21.57	0.39	19.81	<=38.45	Pass	
			0	21.17	0.39	19.41	<=38.45	Pass	
		12	6	21.06	0.39	19.30	<=38.45	Pass	
			13	21.03	0.39	19.27	<=38.45	Pass	
			25	0	21.02	0.39	19.26	<=38.45	Pass
		836.5	1	0	21.69	0.39	19.93	<=38.45	Pass
				13	21.53	0.39	19.77	<=38.45	Pass
	24			21.64	0.39	19.88	<=38.45	Pass	
	0			21.00	0.39	19.24	<=38.45	Pass	
	12		6	21.08	0.39	19.32	<=38.45	Pass	
			13	20.96	0.39	19.20	<=38.45	Pass	
			25	0	21.01	0.39	19.25	<=38.45	Pass
	846.5		1	0	21.79	0.39	20.03	<=38.45	Pass
				13	21.76	0.39	20.00	<=38.45	Pass
		24		21.39	0.39	19.63	<=38.45	Pass	
		0		20.82	0.39	19.06	<=38.45	Pass	
		12	6	20.76	0.39	19.00	<=38.45	Pass	
			13	20.88	0.39	19.12	<=38.45	Pass	
			25	0	20.85	0.39	19.09	<=38.45	Pass
		64QAM	826.5	1	0	21.22	0.39	19.46	<=38.45
13					21.44	0.39	19.68	<=38.45	Pass
24	20.96				0.39	19.20	<=38.45	Pass	
12	0			20.75	0.39	18.99	<=38.45	Pass	
	6			20.81	0.39	19.05	<=38.45	Pass	
	13			20.69	0.39	18.93	<=38.45	Pass	
25	0			20.87	0.39	19.11	<=38.45	Pass	
836.5	1		0	21.57	0.39	19.81	<=38.45	Pass	
			13	21.56	0.39	19.80	<=38.45	Pass	
			24	21.26	0.39	19.50	<=38.45	Pass	
	12		0	20.67	0.39	18.91	<=38.45	Pass	
			6	20.86	0.39	19.10	<=38.45	Pass	
			13	20.72	0.39	18.96	<=38.45	Pass	
	25		0	20.83	0.39	19.07	<=38.45	Pass	
846.5	1		0	21.59	0.39	19.83	<=38.45	Pass	
			13	21.55	0.39	19.79	<=38.45	Pass	
			24	21.16	0.39	19.40	<=38.45	Pass	
	12		0	20.71	0.39	18.95	<=38.45	Pass	
			6	20.63	0.39	18.87	<=38.45	Pass	
			13	20.50	0.39	18.74	<=38.45	Pass	
	25		0	20.94	0.39	19.18	<=38.45	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

7.1.4 B5_10MHz_ERP

Band: 5 / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	23.00	0.39	21.24	<=38.45	Pass
			25	23.32	0.39	21.56	<=38.45	Pass
			49	22.84	0.39	21.08	<=38.45	Pass
		25	0	22.13	0.39	20.37	<=38.45	Pass
			13	22.10	0.39	20.34	<=38.45	Pass
			25	22.04	0.39	20.28	<=38.45	Pass
		50	0	22.06	0.39	20.30	<=38.45	Pass

