

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B71_5MHz_ERP

Band: 71 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	665.5	1	0	22.74	3.17	23.76	<=34.77	Pass
			13	22.73	3.17	23.75	<=34.77	Pass
			24	22.63	3.17	23.65	<=34.77	Pass
		12	0	21.64	3.17	22.66	<=34.77	Pass
			6	21.81	3.17	22.83	<=34.77	Pass
			13	21.77	3.17	22.79	<=34.77	Pass
		25	0	21.79	3.17	22.81	<=34.77	Pass
	680.5	1	0	22.79	3.17	23.81	<=34.77	Pass
			13	22.72	3.17	23.74	<=34.77	Pass
			24	22.81	3.17	23.83	<=34.77	Pass
		12	0	21.77	3.17	22.79	<=34.77	Pass
			6	21.75	3.17	22.77	<=34.77	Pass
			13	21.72	3.17	22.74	<=34.77	Pass
		25	0	21.77	3.17	22.79	<=34.77	Pass
	695.5	1	0	22.90	3.17	23.92	<=34.77	Pass
			13	22.82	3.17	23.84	<=34.77	Pass
			24	22.66	3.17	23.68	<=34.77	Pass
		12	0	21.96	3.17	22.98	<=34.77	Pass
			6	21.87	3.17	22.89	<=34.77	Pass
			13	21.64	3.17	22.66	<=34.77	Pass
		25	0	21.81	3.17	22.83	<=34.77	Pass
16QAM	665.5	1	0	21.89	3.17	22.91	<=34.77	Pass
			13	22.00	3.17	23.02	<=34.77	Pass
			24	21.89	3.17	22.91	<=34.77	Pass
		12	0	20.74	3.17	21.76	<=34.77	Pass
			6	20.78	3.17	21.80	<=34.77	Pass
			13	20.74	3.17	21.76	<=34.77	Pass
		25	0	20.81	3.17	21.83	<=34.77	Pass
	680.5	1	0	21.93	3.17	22.95	<=34.77	Pass
			13	21.91	3.17	22.93	<=34.77	Pass
			24	21.87	3.17	22.89	<=34.77	Pass
		12	0	20.87	3.17	21.89	<=34.77	Pass
			6	20.87	3.17	21.89	<=34.77	Pass
			13	20.84	3.17	21.86	<=34.77	Pass
		25	0	20.87	3.17	21.89	<=34.77	Pass
	695.5	1	0	22.09	3.17	23.11	<=34.77	Pass
			13	22.07	3.17	23.09	<=34.77	Pass
			24	21.90	3.17	22.92	<=34.77	Pass
		12	0	21.05	3.17	22.07	<=34.77	Pass
			6	20.97	3.17	21.99	<=34.77	Pass
			13	20.74	3.17	21.76	<=34.77	Pass
		25	0	20.95	3.17	21.97	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B71_10MHz_ERP

Band: 71 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	668	1	0	22.87	3.17	23.89	<=34.77	Pass
			25	22.77	3.17	23.79	<=34.77	Pass
			49	22.98	3.17	24.00	<=34.77	Pass
		25	0	21.87	3.17	22.89	<=34.77	Pass
			13	21.87	3.17	22.89	<=34.77	Pass
			25	21.96	3.17	22.98	<=34.77	Pass
		50	0	21.95	3.17	22.97	<=34.77	Pass
	680.5	1	0	22.90	3.17	23.92	<=34.77	Pass
			25	22.84	3.17	23.86	<=34.77	Pass
			49	22.91	3.17	23.93	<=34.77	Pass
		25	0	21.92	3.17	22.94	<=34.77	Pass
			13	21.86	3.17	22.88	<=34.77	Pass
			25	21.89	3.17	22.91	<=34.77	Pass
		50	0	21.90	3.17	22.92	<=34.77	Pass
	693	1	0	23.15	3.17	24.17	<=34.77	Pass
			25	23.04	3.17	24.06	<=34.77	Pass
			49	22.82	3.17	23.84	<=34.77	Pass
		25	0	21.87	3.17	22.89	<=34.77	Pass
			13	22.02	3.17	23.04	<=34.77	Pass
			25	22.02	3.17	23.04	<=34.77	Pass
		50	0	21.98	3.17	23.00	<=34.77	Pass
16QAM	668	1	0	22.06	3.17	23.08	<=34.77	Pass
			25	22.03	3.17	23.05	<=34.77	Pass
			49	22.26	3.17	23.28	<=34.77	Pass
		12	0	21.94	3.17	22.96	<=34.77	Pass
			19	21.90	3.17	22.92	<=34.77	Pass
			38	22.07	3.17	23.09	<=34.77	Pass
		27	0	20.84	3.17	21.86	<=34.77	Pass
	680.5	1	0	21.93	3.17	22.95	<=34.77	Pass
			25	21.88	3.17	22.90	<=34.77	Pass
			49	21.96	3.17	22.98	<=34.77	Pass
		12	0	21.92	3.17	22.94	<=34.77	Pass
			19	21.85	3.17	22.87	<=34.77	Pass
			38	21.89	3.17	22.91	<=34.77	Pass
		27	0	21.05	3.17	22.07	<=34.77	Pass
	693	1	0	21.88	3.17	22.90	<=34.77	Pass
			25	21.79	3.17	22.81	<=34.77	Pass
			49	21.60	3.17	22.62	<=34.77	Pass
		12	0	22.01	3.17	23.03	<=34.77	Pass
			19	22.00	3.17	23.02	<=34.77	Pass
			38	21.88	3.17	22.90	<=34.77	Pass
		27	23	21.20	3.17	22.22	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B71_15MHz_ERP

Band: 71 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	670.5	1	0	22.80	3.17	23.82	<=34.77	Pass
			38	23.04	3.17	24.06	<=34.77	Pass
			74	22.82	3.17	23.84	<=34.77	Pass
		36	0	21.98	3.17	23.00	<=34.77	Pass
			18	22.08	3.17	23.10	<=34.77	Pass
			39	22.02	3.17	23.04	<=34.77	Pass
		75	0	22.00	3.17	23.02	<=34.77	Pass
	680.5	1	0	23.14	3.17	24.16	<=34.77	Pass
			38	22.97	3.17	23.99	<=34.77	Pass
			74	23.06	3.17	24.08	<=34.77	Pass
		36	0	22.06	3.17	23.08	<=34.77	Pass
			18	22.02	3.17	23.04	<=34.77	Pass
			39	21.97	3.17	22.99	<=34.77	Pass
		75	0	22.01	3.17	23.03	<=34.77	Pass
	690.5	1	0	22.93	3.17	23.95	<=34.77	Pass
			38	23.28	3.17	24.30	<=34.77	Pass
			74	22.78	3.17	23.80	<=34.77	Pass
		36	0	22.10	3.17	23.12	<=34.77	Pass
			18	22.11	3.17	23.13	<=34.77	Pass
			39	22.08	3.17	23.10	<=34.77	Pass
		75	0	22.18	3.17	23.20	<=34.77	Pass
16QAM	670.5	1	0	21.78	3.17	22.80	<=34.77	Pass
			38	22.03	3.17	23.05	<=34.77	Pass
			74	21.78	3.17	22.80	<=34.77	Pass
		12	0	21.81	3.17	22.83	<=34.77	Pass
			31	22.00	3.17	23.02	<=34.77	Pass
			63	21.78	3.17	22.80	<=34.77	Pass
		27	0	20.87	3.17	21.89	<=34.77	Pass
	680.5	1	0	22.11	3.17	23.13	<=34.77	Pass
			38	21.98	3.17	23.00	<=34.77	Pass
			74	22.02	3.17	23.04	<=34.77	Pass
		12	0	22.04	3.17	23.06	<=34.77	Pass
			31	21.90	3.17	22.92	<=34.77	Pass
			63	21.97	3.17	22.99	<=34.77	Pass
		27	0	21.10	3.17	22.12	<=34.77	Pass
	690.5	1	0	22.00	3.17	23.02	<=34.77	Pass
			38	22.17	3.17	23.19	<=34.77	Pass
			74	21.77	3.17	22.79	<=34.77	Pass
		12	0	21.99	3.17	23.01	<=34.77	Pass
			31	22.07	3.17	23.09	<=34.77	Pass
			63	21.94	3.17	22.96	<=34.77	Pass
		27	48	21.24	3.17	22.26	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B71_20MHz_ERP

Band: 71 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	673	1	0	22.65	3.17	23.67	<=34.77	Pass
			50	23.03	3.17	24.05	<=34.77	Pass
			99	22.53	3.17	23.55	<=34.77	Pass
		50	0	22.03	3.17	23.05	<=34.77	Pass
			25	22.21	3.17	23.23	<=34.77	Pass
			50	22.03	3.17	23.05	<=34.77	Pass
		100	0	22.05	3.17	23.07	<=34.77	Pass
	683	1	0	23.15	3.17	24.17	<=34.77	Pass
			50	23.08	3.17	24.10	<=34.77	Pass
			99	22.75	3.17	23.77	<=34.77	Pass
		50	0	22.11	3.17	23.13	<=34.77	Pass
			25	22.16	3.17	23.18	<=34.77	Pass
			50	22.16	3.17	23.18	<=34.77	Pass
		100	0	22.11	3.17	23.13	<=34.77	Pass
	688	1	0	22.77	3.17	23.79	<=34.77	Pass
			50	23.21	3.17	24.23	<=34.77	Pass
			99	22.66	3.17	23.68	<=34.77	Pass
		50	0	22.11	3.17	23.13	<=34.77	Pass
			25	22.21	3.17	23.23	<=34.77	Pass
			50	22.28	3.17	23.30	<=34.77	Pass
		100	0	22.22	3.17	23.24	<=34.77	Pass
16QAM	673	1	0	22.12	3.17	23.14	<=34.77	Pass
			50	22.50	3.17	23.52	<=34.77	Pass
			99	21.99	3.17	23.01	<=34.77	Pass
		12	0	21.86	3.17	22.88	<=34.77	Pass
			44	22.12	3.17	23.14	<=34.77	Pass
			88	21.69	3.17	22.71	<=34.77	Pass
		27	0	20.95	3.17	21.97	<=34.77	Pass
	683	1	0	22.49	3.17	23.51	<=34.77	Pass
			50	22.48	3.17	23.50	<=34.77	Pass
			99	22.13	3.17	23.15	<=34.77	Pass
		12	0	22.08	3.17	23.10	<=34.77	Pass
			44	22.08	3.17	23.10	<=34.77	Pass
			88	22.03	3.17	23.05	<=34.77	Pass
		27	0	21.22	3.17	22.24	<=34.77	Pass
	688	1	0	22.33	3.17	23.35	<=34.77	Pass
			50	22.70	3.17	23.72	<=34.77	Pass
			99	22.12	3.17	23.14	<=34.77	Pass
		12	0	21.96	3.17	22.98	<=34.77	Pass
			44	22.32	3.17	23.34	<=34.77	Pass
			88	22.01	3.17	23.03	<=34.77	Pass
		27	73	21.19	3.17	22.21	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B71_10MHz

Band: 71 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	680.5	50	0	20	LV	-1.130	-0.0017	-2.5 to 2.5	Pass
					NV	-0.787	-0.0012	-2.5 to 2.5	Pass
					HV	-0.672	-0.0010	-2.5 to 2.5	Pass
				-30	NV	-0.529	-0.0008	-2.5 to 2.5	Pass
				-20	NV	-0.072	-0.0001	-2.5 to 2.5	Pass
				-10	NV	-0.014	0.0000	-2.5 to 2.5	Pass
				0	NV	-0.229	-0.0003	-2.5 to 2.5	Pass
				10	NV	-0.615	-0.0009	-2.5 to 2.5	Pass
				30	NV	-0.243	-0.0004	-2.5 to 2.5	Pass
				40	NV	-0.515	-0.0008	-2.5 to 2.5	Pass
				50	NV	-0.372	-0.0005	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band71_OBW

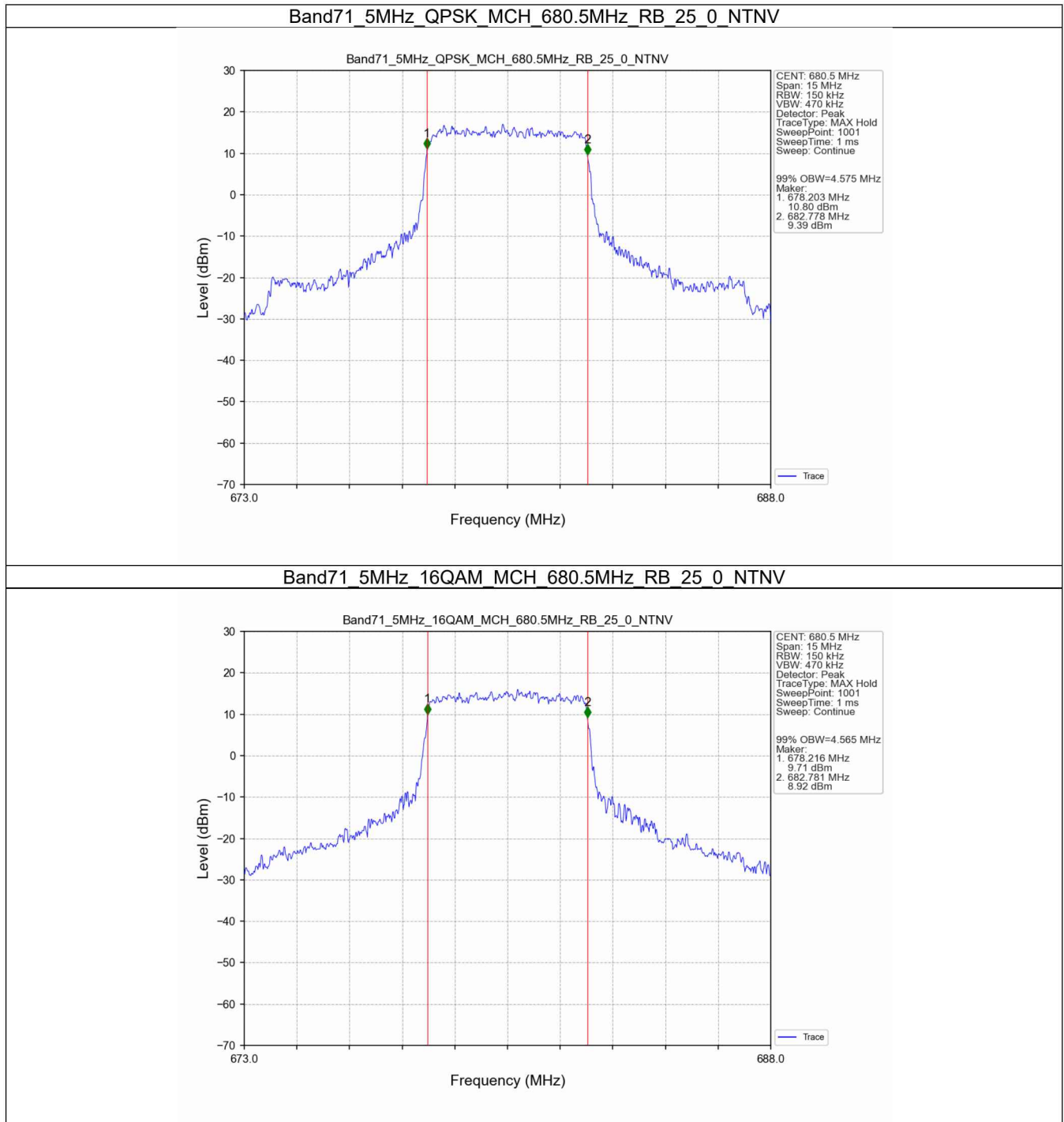
Band: 71 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	680.5	25	0	4.575	/	Pass
	16QAM	680.5	25	0	4.565	/	Pass
10	QPSK	680.5	50	0	9.072	/	Pass
	16QAM	680.5	27	0	5.162	/	Pass
15	QPSK	680.5	75	0	13.653	/	Pass
	16QAM	680.5	27	0	5.482	/	Pass
20	QPSK	683	100	0	18.145	/	Pass
	16QAM	683	27	0	5.793	/	Pass

3.1.2 Band71_XDB

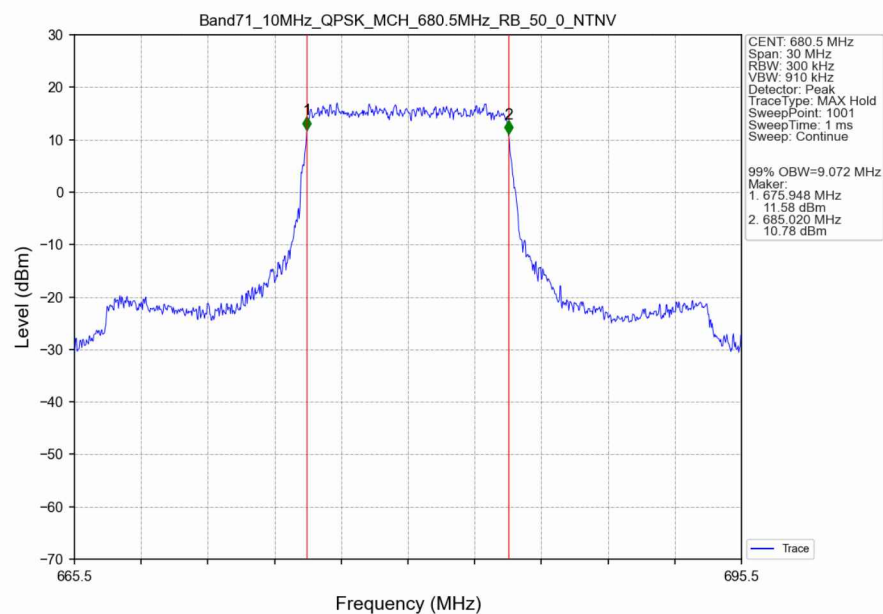
Band: 71 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	680.5	25	0	5.632	/	Pass
	16QAM	680.5	25	0	6.007	/	Pass
10	QPSK	680.5	50	0	10.229	/	Pass
	16QAM	680.5	27	0	6.500	/	Pass
15	QPSK	680.5	75	0	15.744	/	Pass
	16QAM	680.5	27	0	7.133	/	Pass
20	QPSK	683	100	0	20.296	/	Pass
	16QAM	683	27	0	7.656	/	Pass

3.2 Test Graph

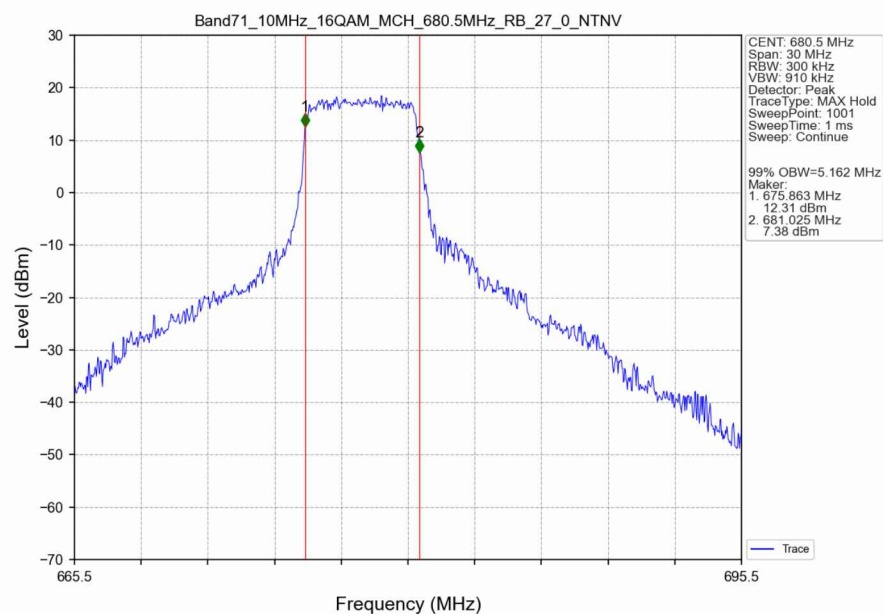
3.2.1 Band71_OBW



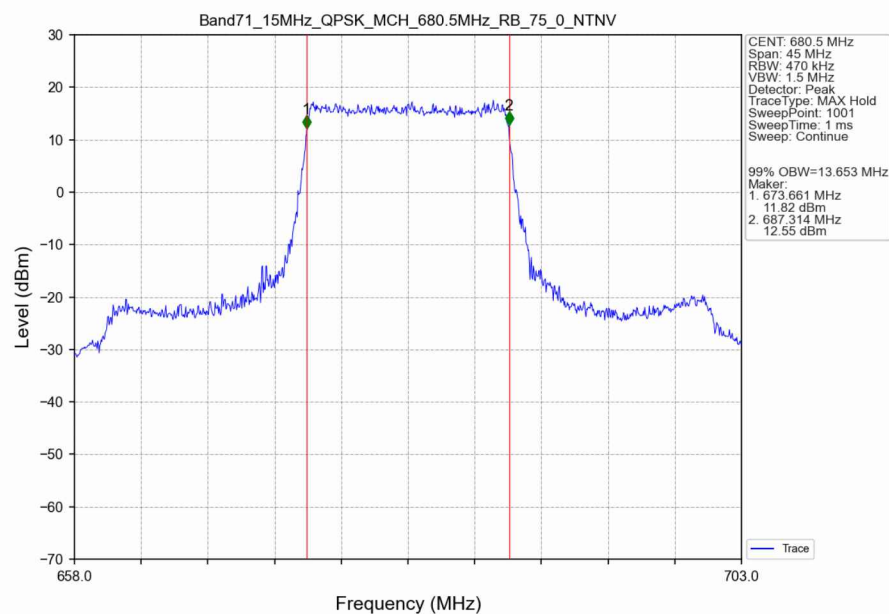
Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV



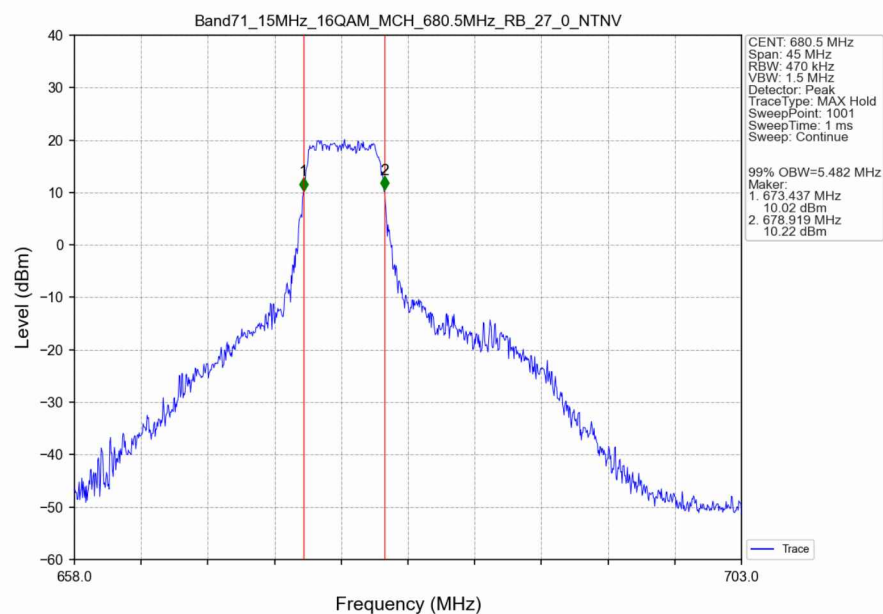
Band71_10MHz_16QAM_MCH_680.5MHz_RB_27_0_NTNV



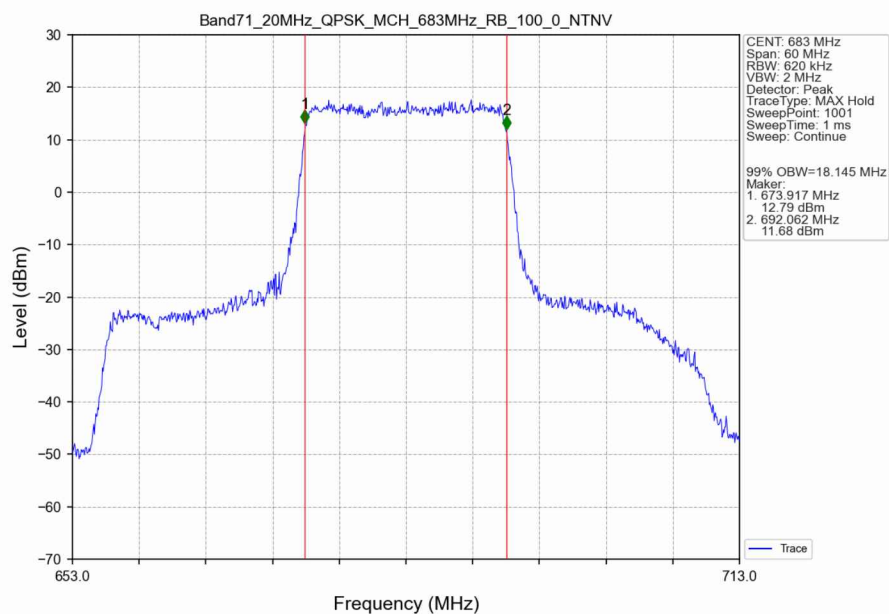
Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



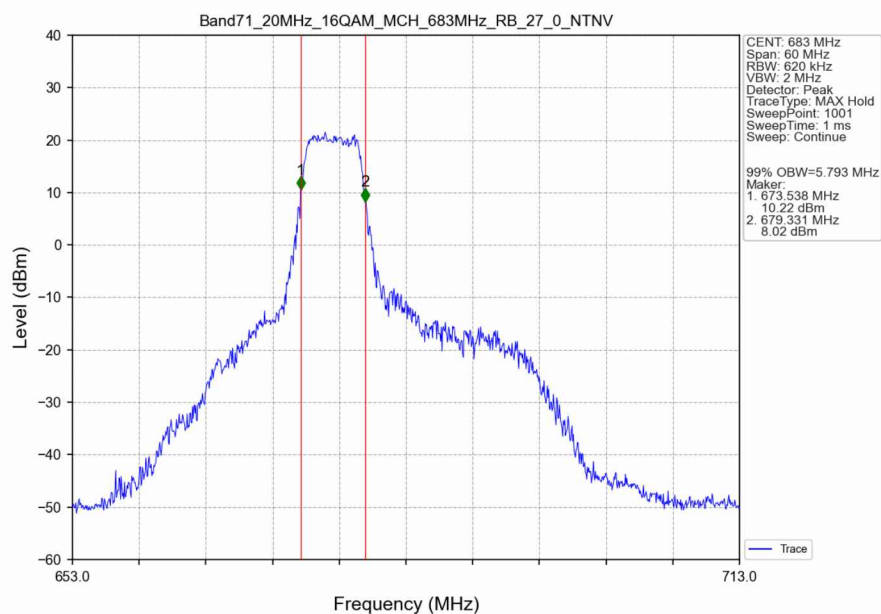
Band71_15MHz_16QAM_MCH_680.5MHz_RB_27_0_NTNV



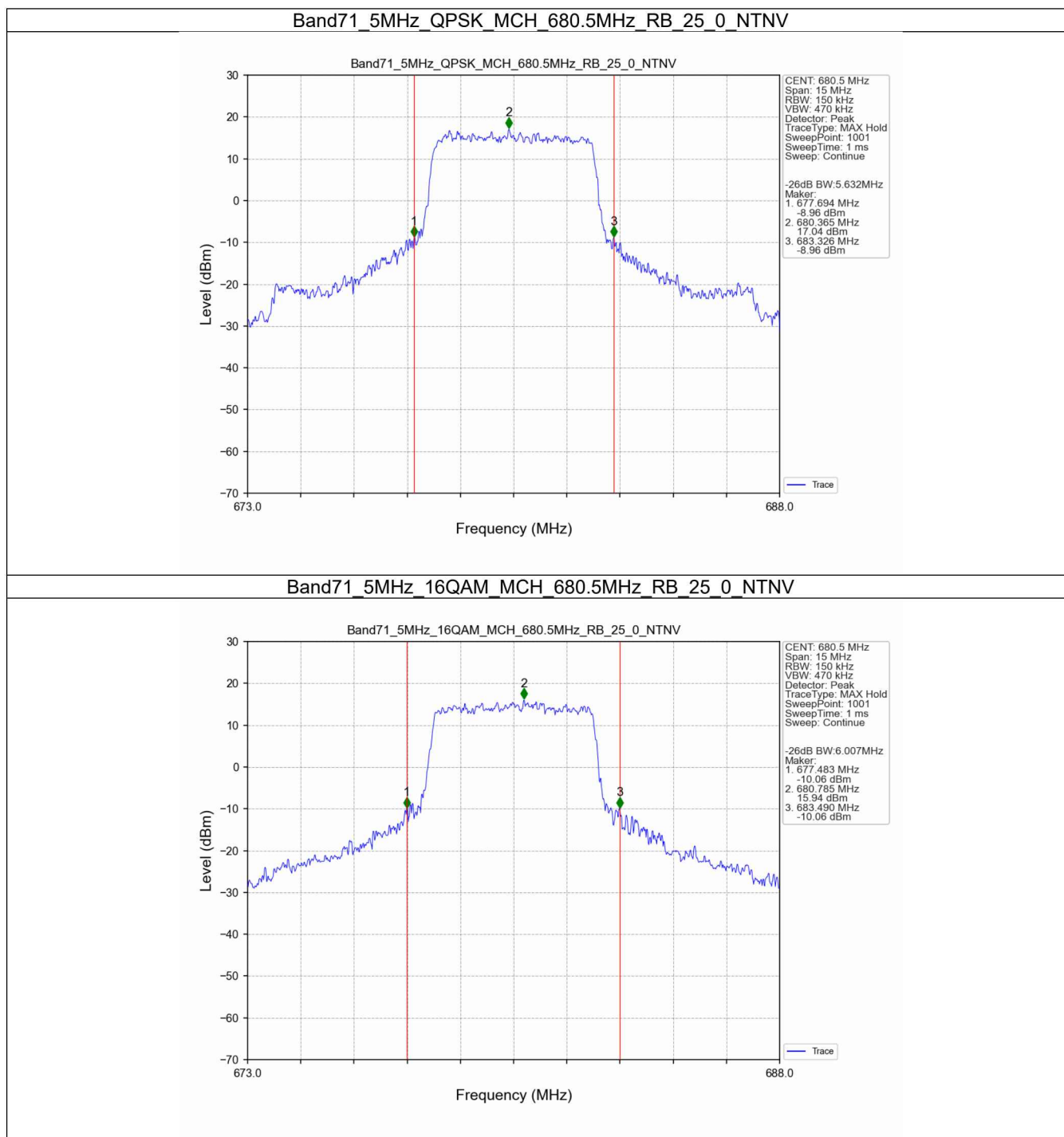
Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



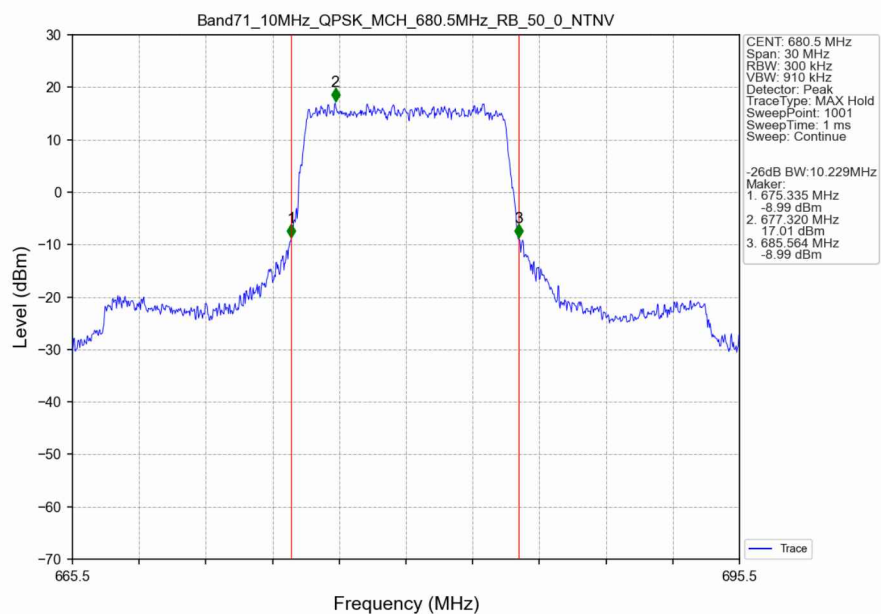
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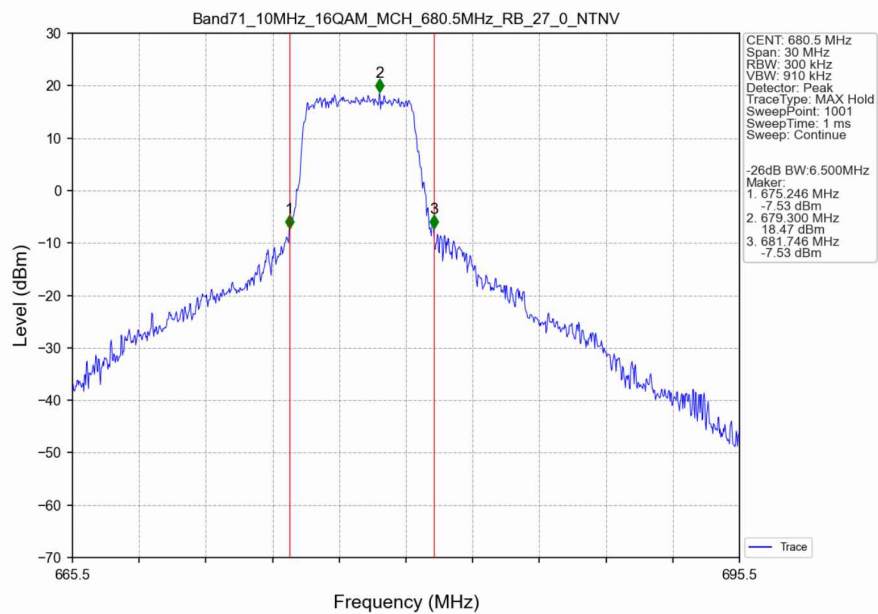
3.2.2 Band71_XDB



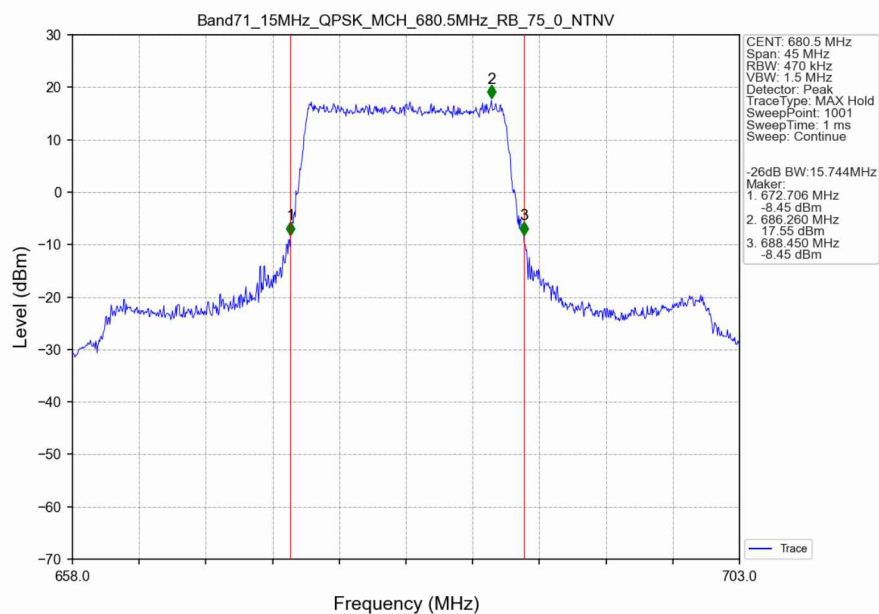
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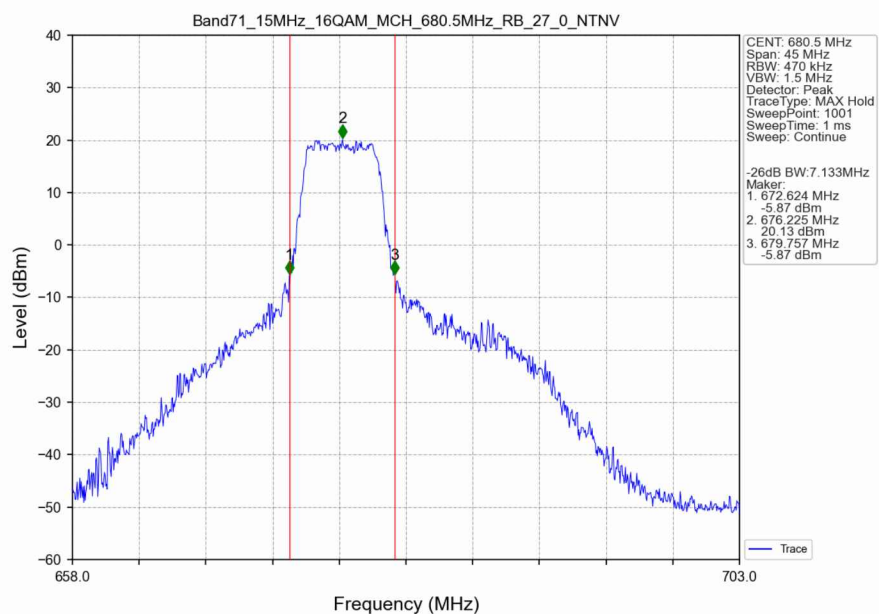
Band71_10MHz_16QAM_MCH_680.5MHz_RB_27_0_NTNV



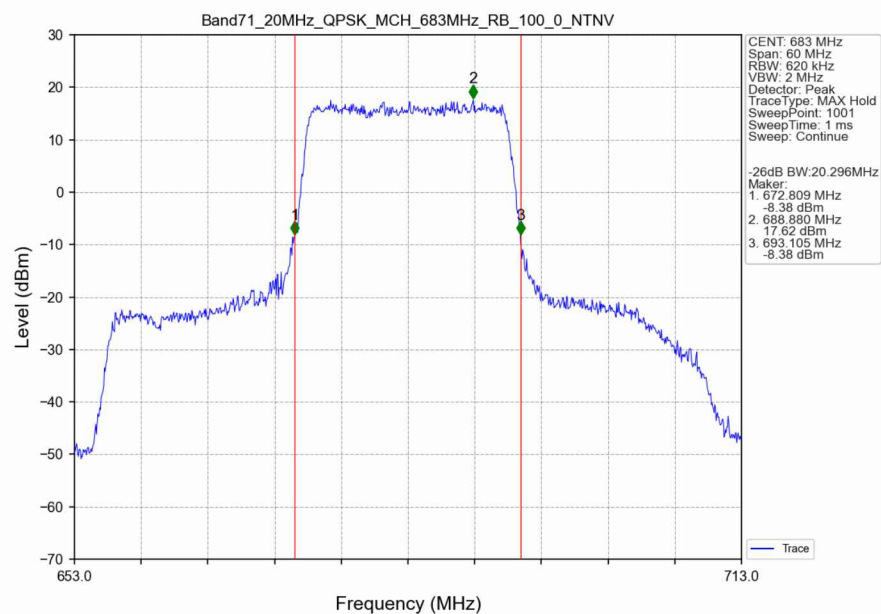
Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



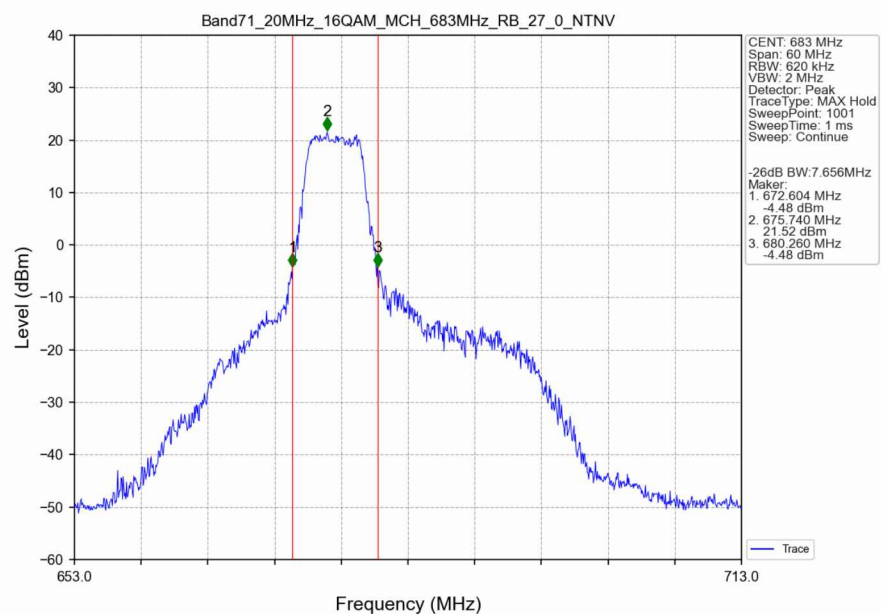
Band71_15MHz_16QAM_MCH_680.5MHz_RB_27_0_NTNV



Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_MCH_683MHz_RB_27_0_NTNV





4. Peak-Average Ratio

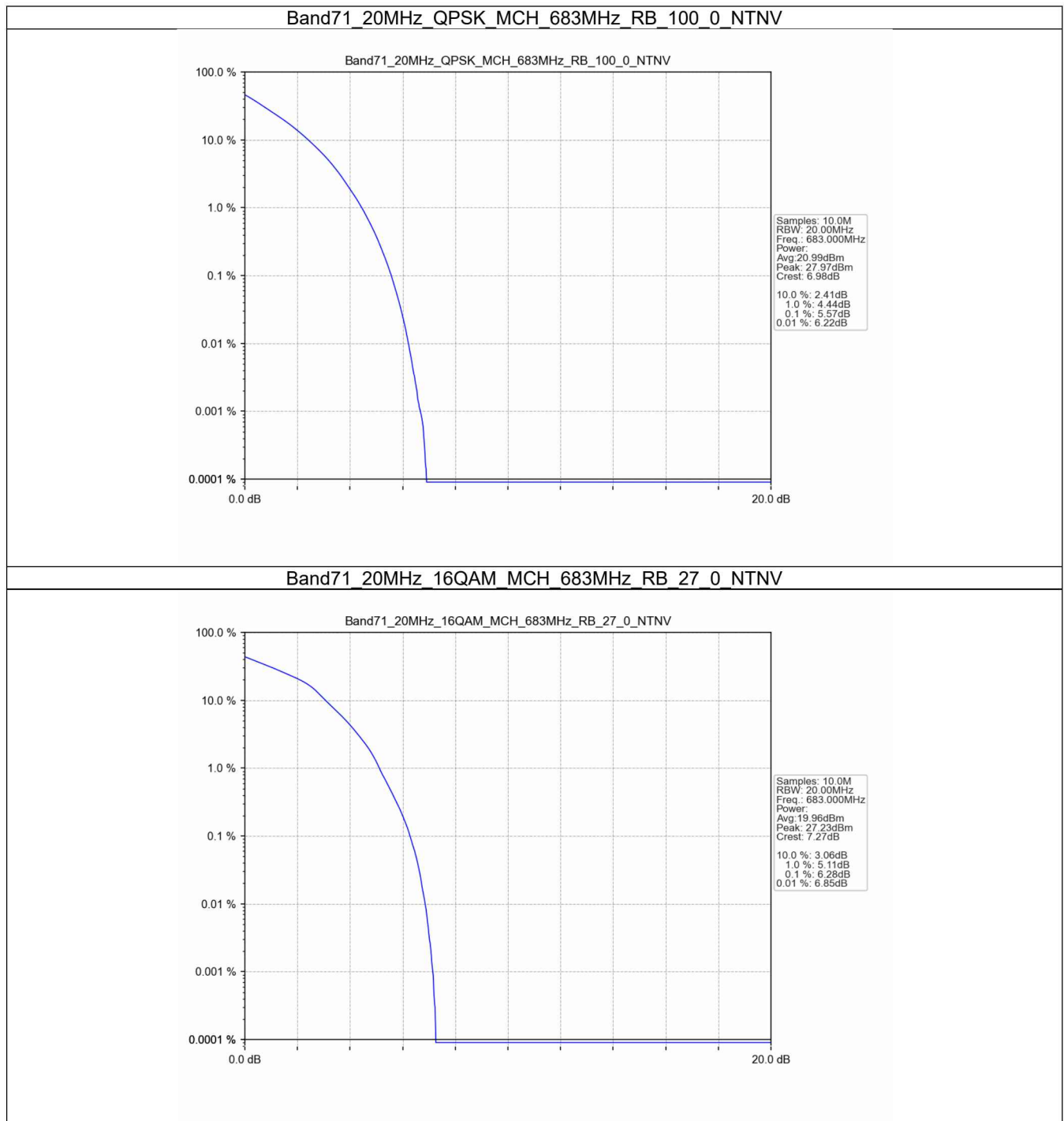
4.1 Test Result

4.1.1 B71_20MHz

Band: 71 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	683	100	0	5.57	<=13	Pass
16QAM	683	27	0	6.28	<=13	Pass

4.2 Test Graph

4.2.1 B71_20MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B71_5MHz

Band: 71 / Bandwidth: 5MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	665.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	680.5	1	0	Refer To Test Graph	Pass
	695.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

5.1.2 B71_10MHz

Band: 71 / Bandwidth: 10MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	668	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	680.5	1	0	Refer To Test Graph	Pass
	693	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass

5.1.3 B71_15MHz

Band: 71 / Bandwidth: 15MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	670.5	1	0	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
	680.5	1	0	Refer To Test Graph	Pass
	690.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass

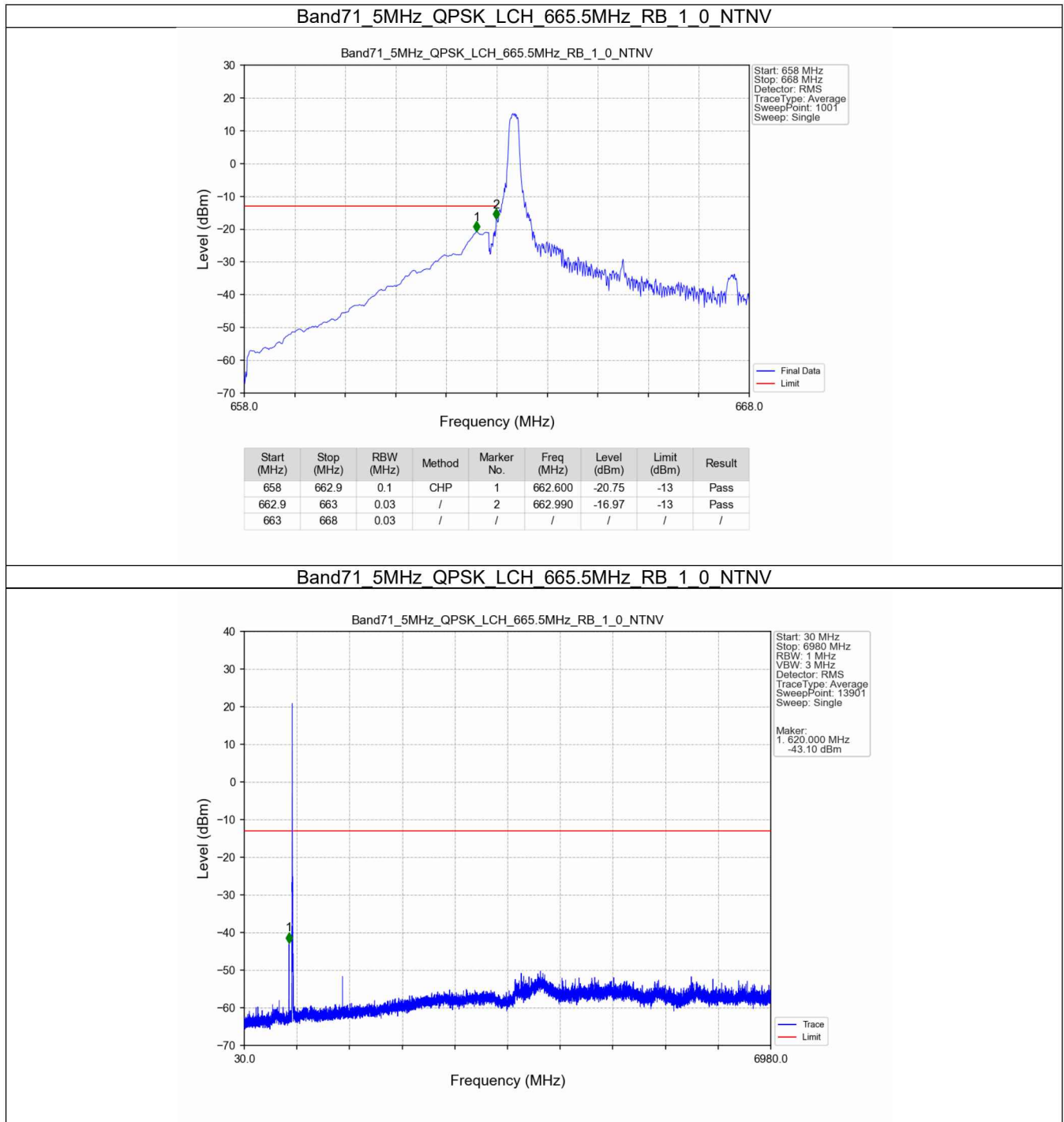


5.1.4 B71_20MHz

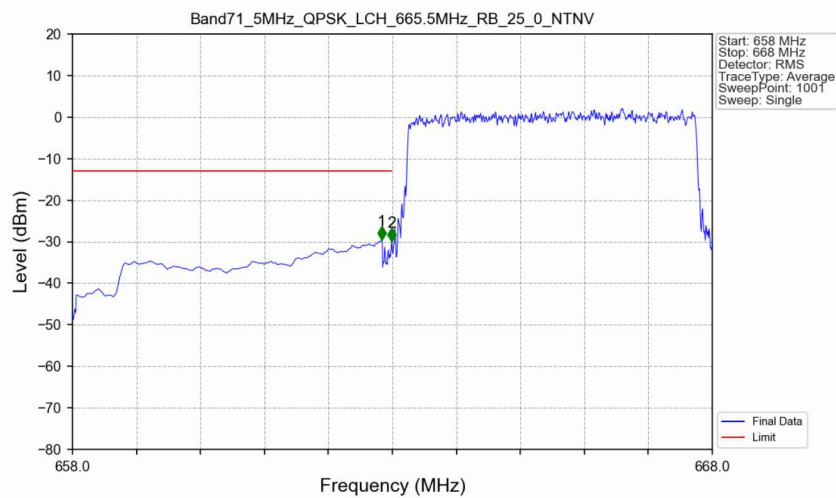
Band: 71 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	673	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	683	1	0	Refer To Test Graph		Pass
	688	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

5.2 Test Graph

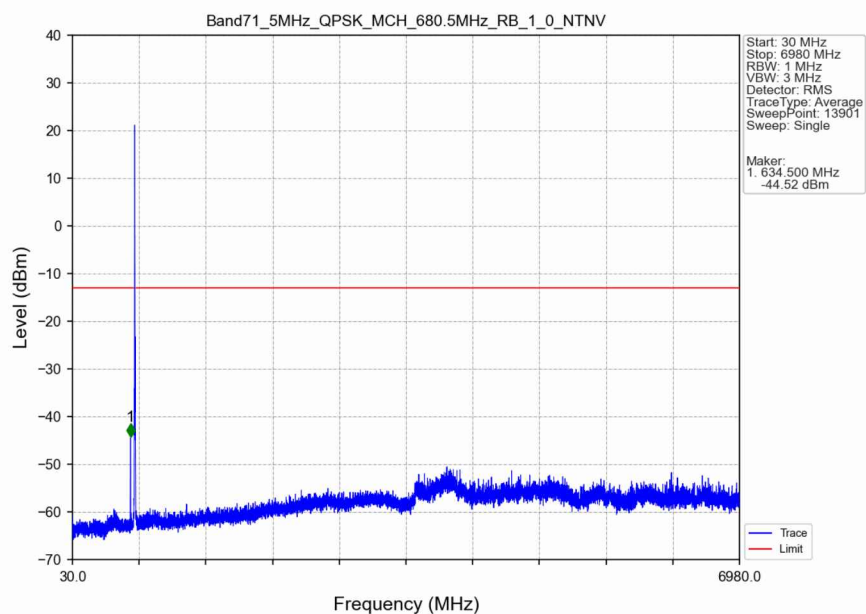
5.2.1 B71_5MHz



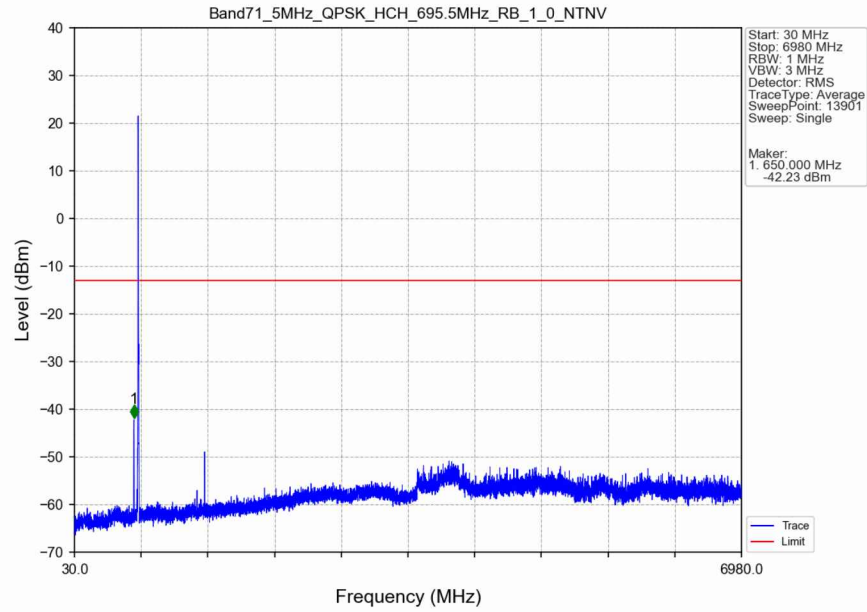
Band71_5MHz_QPSK_LCH_665.5MHz_RB_25_0_NTNV



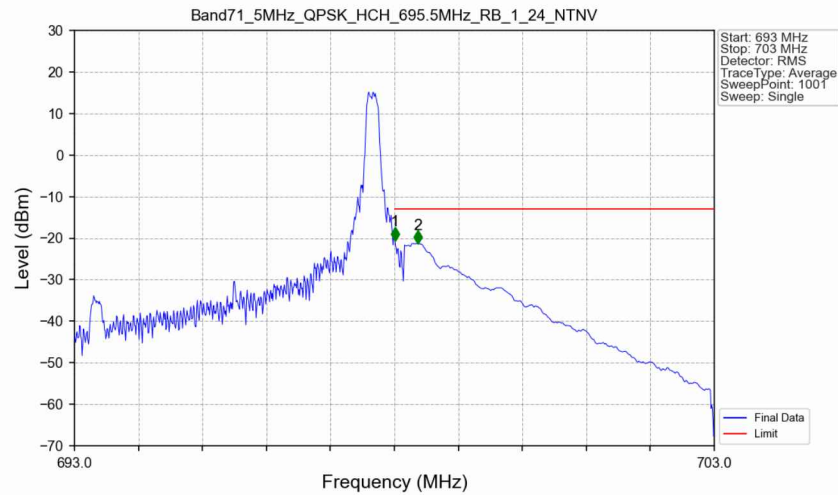
Band71_5MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



Band71_5MHz_QPSK_HCH_695.5MHz_RB_1_0_NTNV

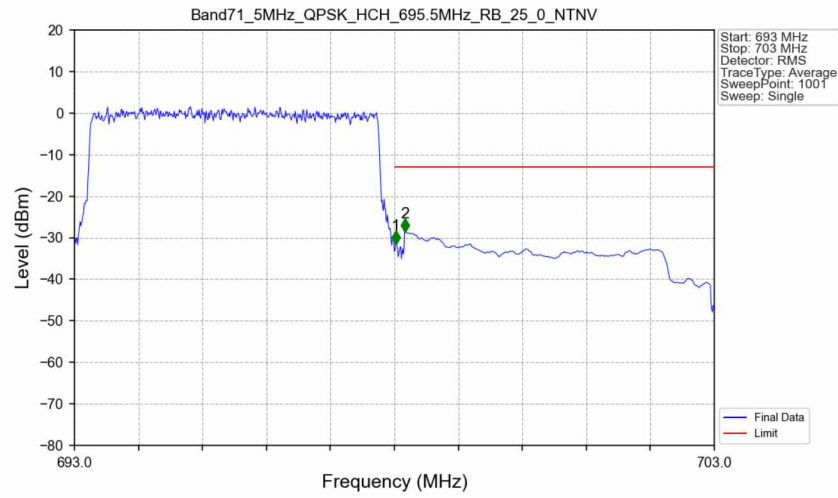


Band71_5MHz_QPSK_HCH_695.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.010	-20.49	-13	Pass
698.1	703	0.1	CHP	2	698.370	-21.27	-13	Pass

Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.03	/	/	/	/	/	/
698	698.1	0.03	/	1	698.020	-31.50	-13	Pass
698.1	703	0.1	CHP	2	698.170	-28.59	-13	Pass