1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B14_5MHz_ERP

Band: 14 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	790.5	1	0	22.79	1.31	21.95	<=34.77	Pass
			24	22.77	1.31	21.93	<=34.77	Pass
		25	0	21.78	1.31	20.94	<=34.77	Pass
	793	1	0	22.82	1.31	21.98	<=34.77	Pass
			24	22.72	1.31	21.88	<=34.77	Pass
		25	0	21.78	1.31	20.94	<=34.77	Pass
	795.5	1	0	22.84	1.31	22.00	<=34.77	Pass
			24	22.78	1.31	21.94	<=34.77	Pass
		25	0	21.74	1.31	20.90	<=34.77	Pass
16QAM	790.5	1	0	21.60	1.31	20.76	<=34.77	Pass
			24	21.65	1.31	20.81	<=34.77	Pass
		25	0	20.82	1.31	19.98	<=34.77	Pass
	793	1	0	22.07	1.31	21.23	<=34.77	Pass
			24	21.96	1.31	21.12	<=34.77	Pass
		25	0	20.75	1.31	19.91	<=34.77	Pass
	795.5	1	0	21.94	1.31	21.10	<=34.77	Pass
			24	21.91	1.31	21.07	<=34.77	Pass
		25	0	20.77	1.31	19.93	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B14_10MHz_ERP

Band: 14 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	793	1	0	23.11	1.31	22.27	<=34.77	Pass
			49	22.86	1.31	22.02	<=34.77	Pass
		50	0	21.77	1.31	20.93	<=34.77	Pass
16QAM	793	1	0	22.68	1.31	21.84	<=34.77	Pass
			49	22.50	1.31	21.66	<=34.77	Pass
		50	0	20.79	1.31	19.95	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B14_10MHz

Band: 14 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	793	50	0	20	12	0.429	0.0005	-2.5 to 2.5	Pass
					24	-0.114	-0.0001	-2.5 to 2.5	Pass
					48	-0.601	-0.0008	-2.5 to 2.5	Pass
				-30	24	-0.186	-0.0002	-2.5 to 2.5	Pass
				-20	24	-0.558	-0.0007	-2.5 to 2.5	Pass
				-10	24	-0.730	-0.0009	-2.5 to 2.5	Pass
				0	24	-0.386	-0.0005	-2.5 to 2.5	Pass
				10	24	-0.501	-0.0006	-2.5 to 2.5	Pass
				30	24	-0.257	-0.0003	-2.5 to 2.5	Pass
				40	24	-0.472	-0.0006	-2.5 to 2.5	Pass
				50	24	-0.443	-0.0006	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band14_OBW

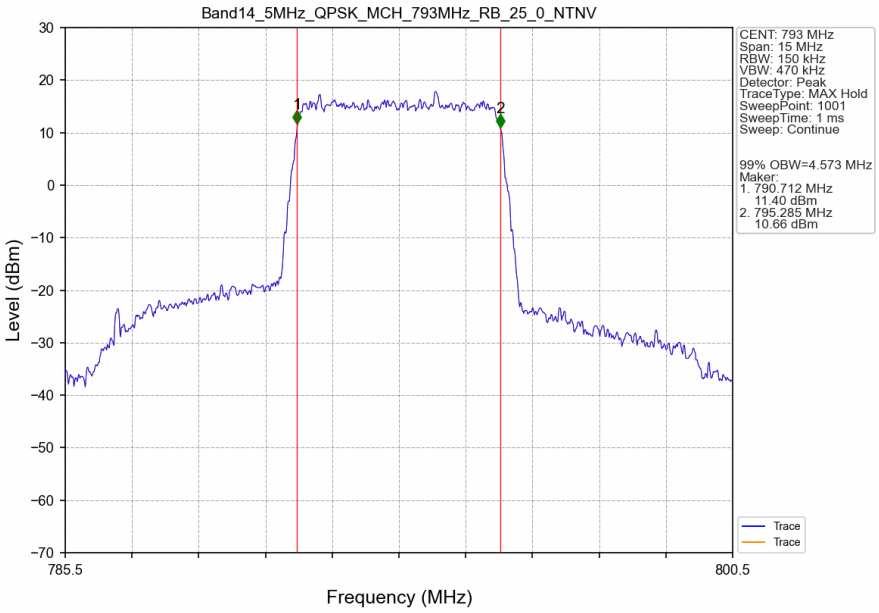
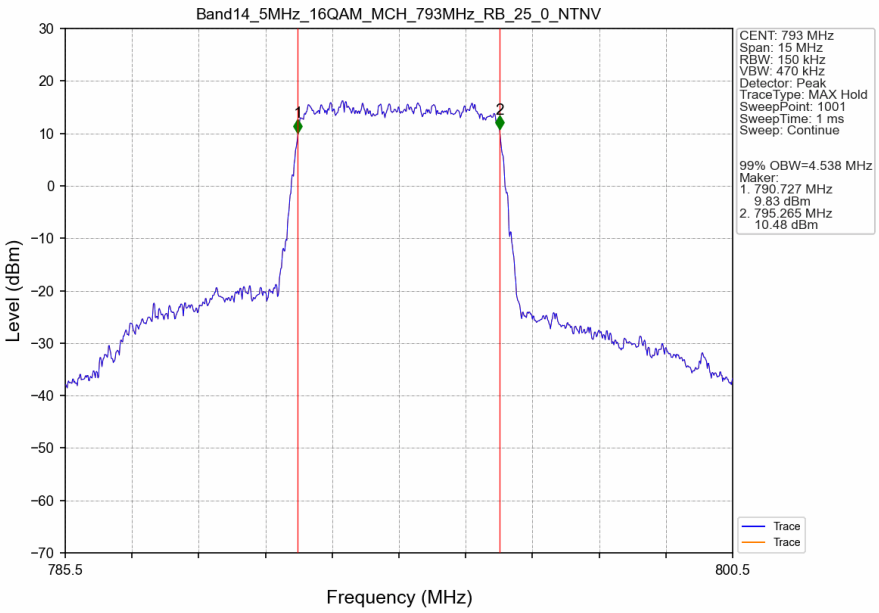
Band: 14 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	793	25	0	4.573	/	Pass
	16QAM	793	25	0	4.538	/	Pass
10	QPSK	793	50	0	9.068	/	Pass
	16QAM	793	50	0	9.057	/	Pass

3.1.2 Band14_XDB

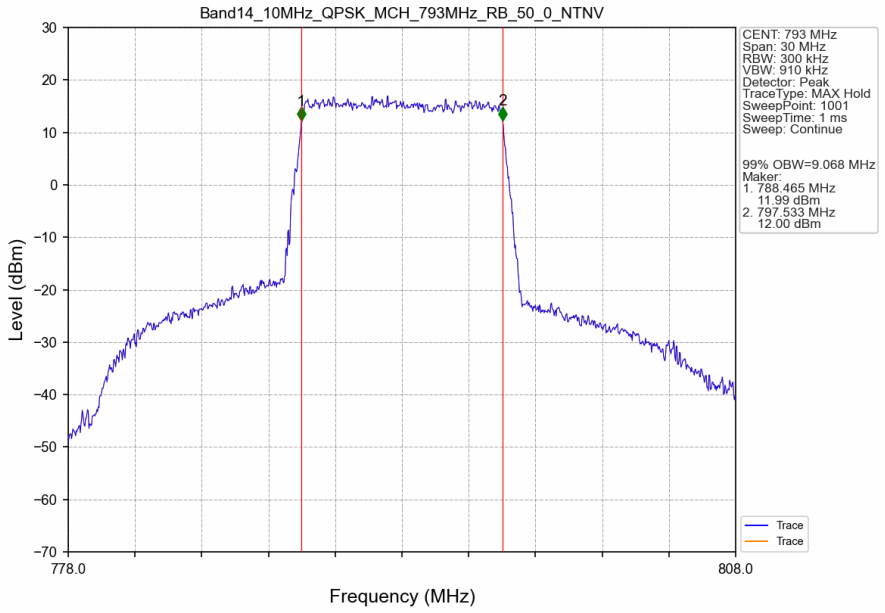
Band: 14 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	793	25	0	5.046	/	Pass
	16QAM	793	25	0	5.046	/	Pass
10	QPSK	793	50	0	10.158	/	Pass
	16QAM	793	50	0	10.072	/	Pass

3.2 Test Graph

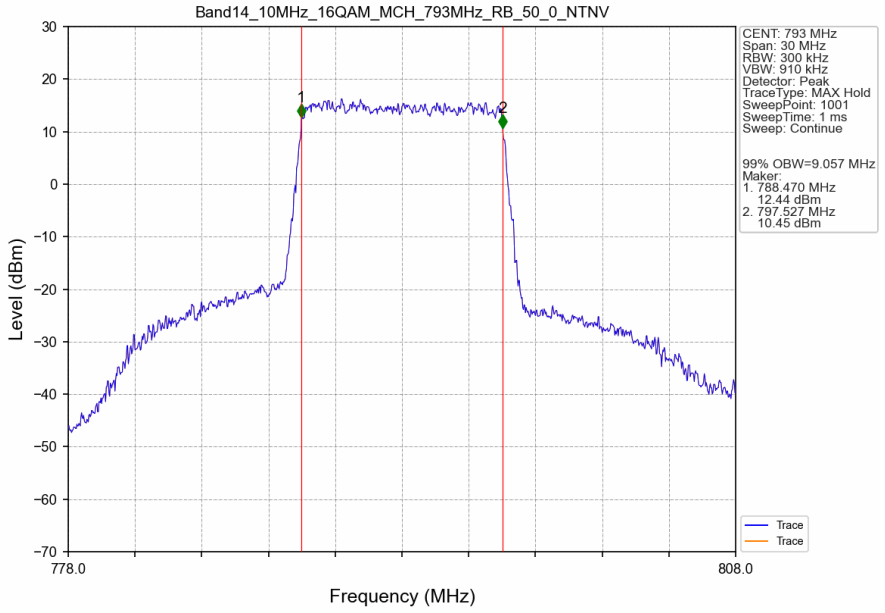
3.2.1 Band14_OBW

Band14_5MHz_QPSK_MCH_793MHz_RB_25_0_NTNV

Band14_5MHz_16QAM_MCH_793MHz_RB_25_0_NTNV


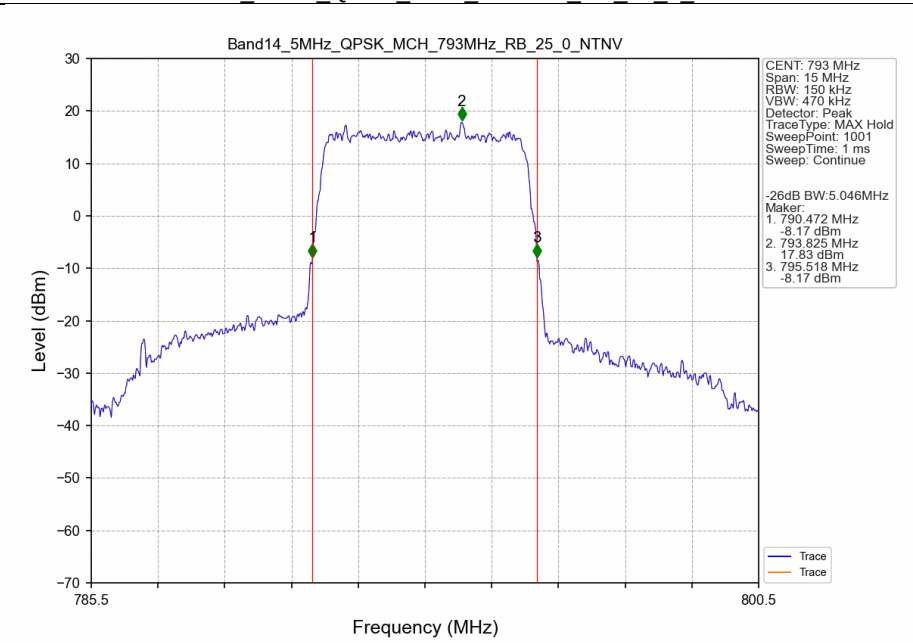
Band14_10MHz_QPSK_MCH_793MHz_RB_50_0_NTNV

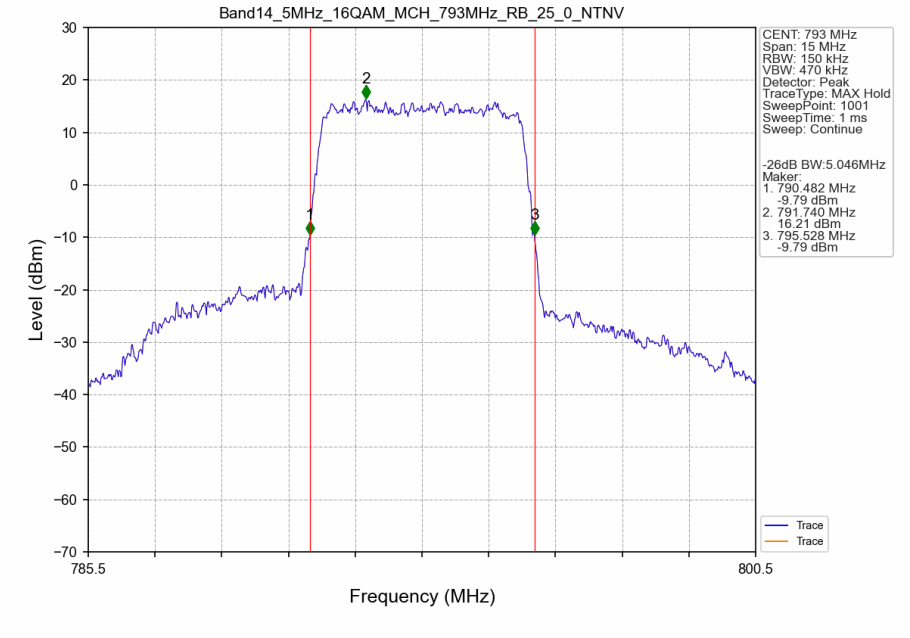


Band14_10MHz_16QAM_MCH_793MHz_RB_50_0_NTNV

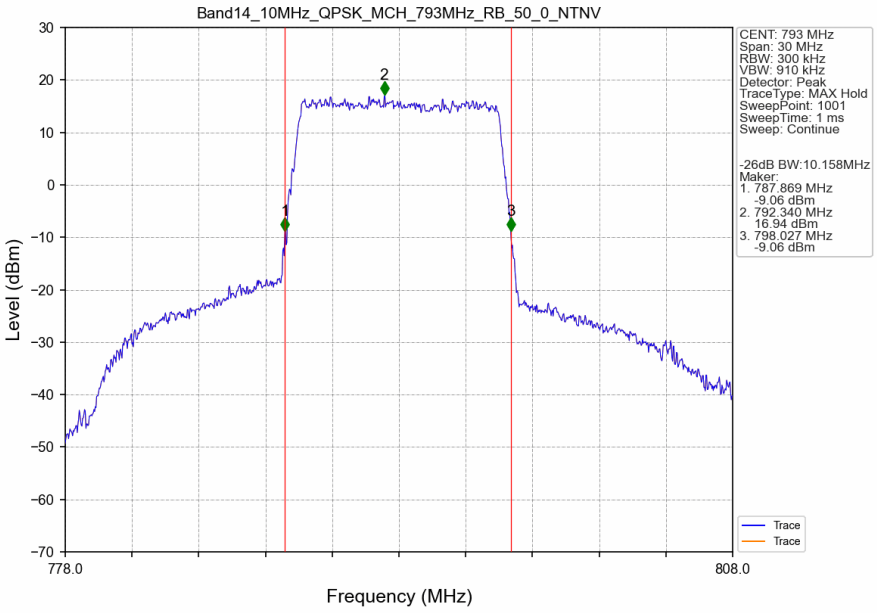


3.2.2 Band14_XDB

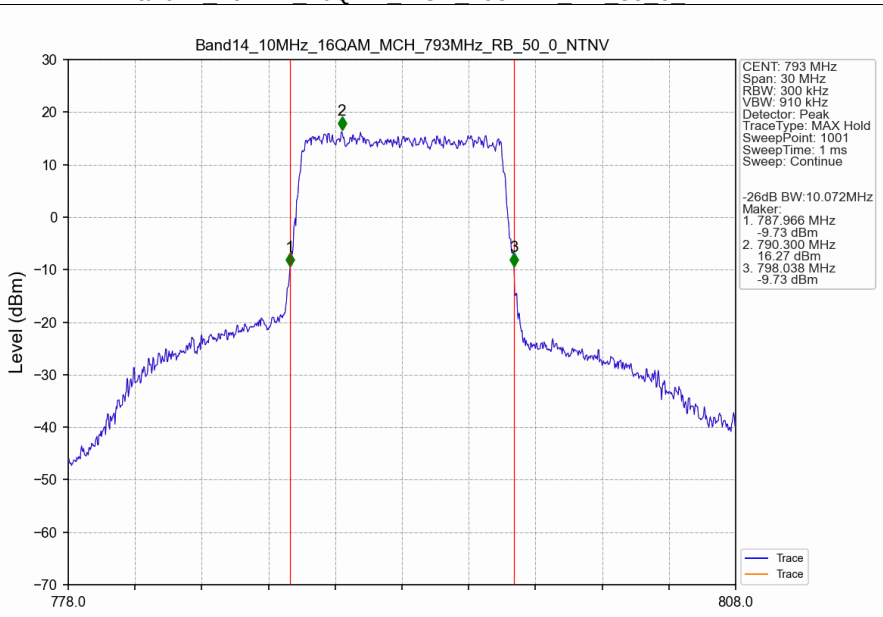
Band14_5MHz_QPSK_MCH_793MHz_RB_25_0_NTNV


Band14_5MHz_16QAM_MCH_793MHz_RB_25_0_NTNV


Band14_10MHz_QPSK_MCH_793MHz_RB_50_0_NTNV



Band14_10MHz_16QAM_MCH_793MHz_RB_50_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

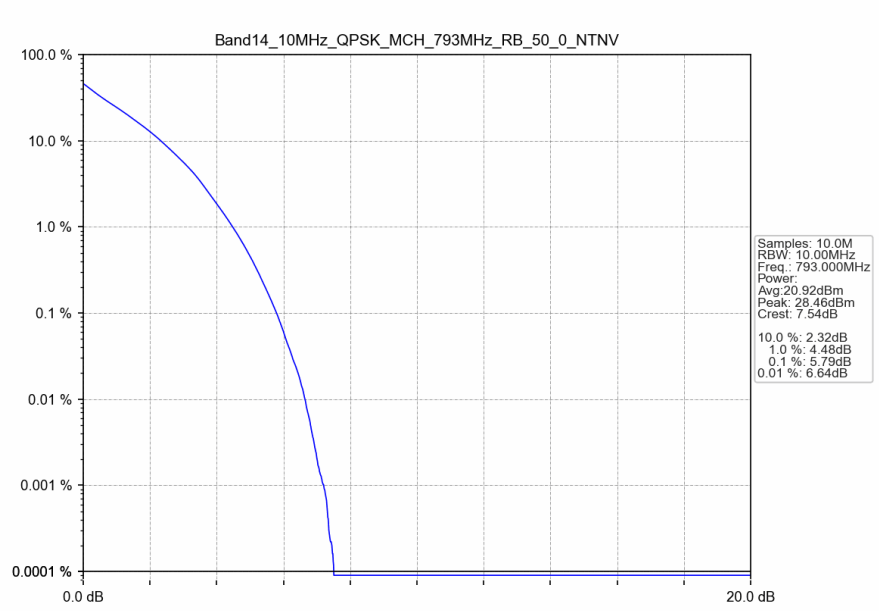
4.1.1 B14_10MHz

Band: 14 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	793	50	0	5.79	<=13	Pass
16QAM	793	50	0	6.48	<=13	Pass

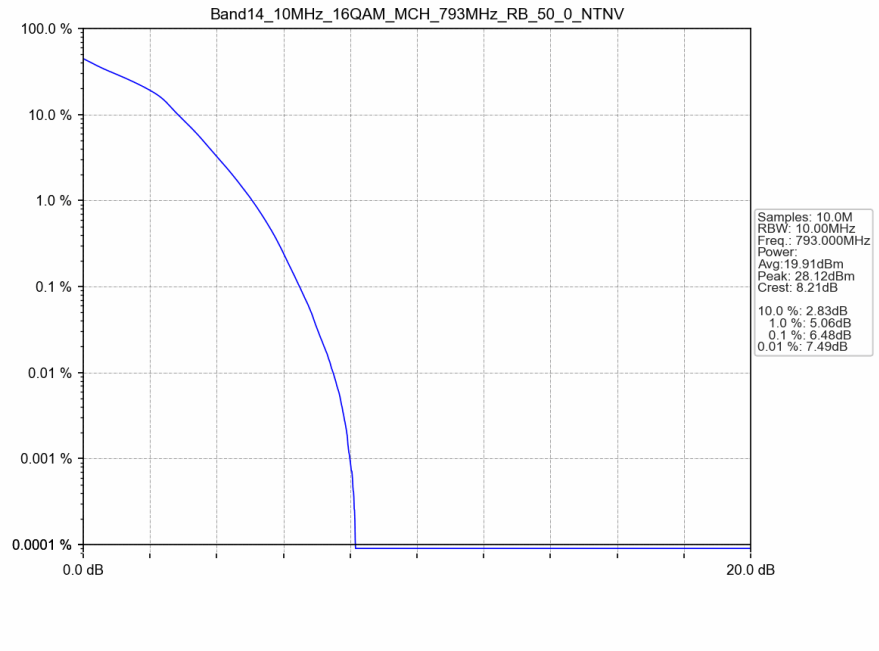
4.2 Test Graph

4.2.1 B14_10MHz

Band14_10MHz_QPSK_MCH_793MHz_RB_50_0_NTNV



Band14_10MHz_16QAM_MCH_793MHz_RB_50_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B14_5MHz

Band: 14 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	790.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	793	1	0	Refer To Test Graph		Pass
	795.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

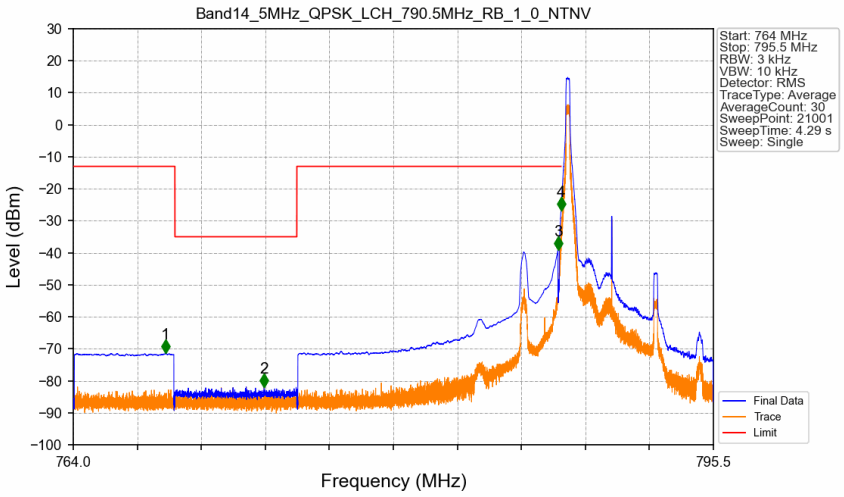
5.1.2 B14_10MHz

Band: 14 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	793	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	793	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

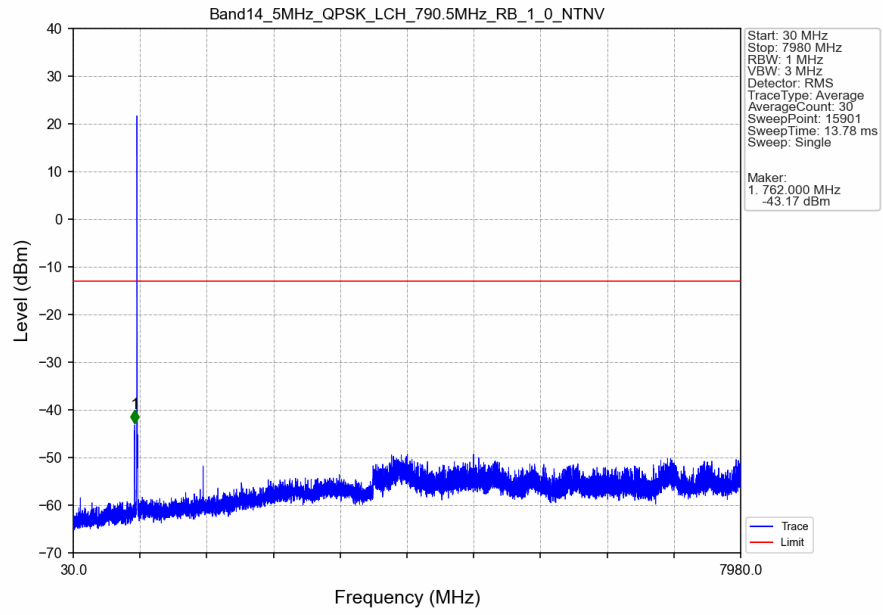
5.2.1 B14_5MHz

Band14_5MHz_QPSK_LCH_790.5MHz_RB_1_0_NTNV

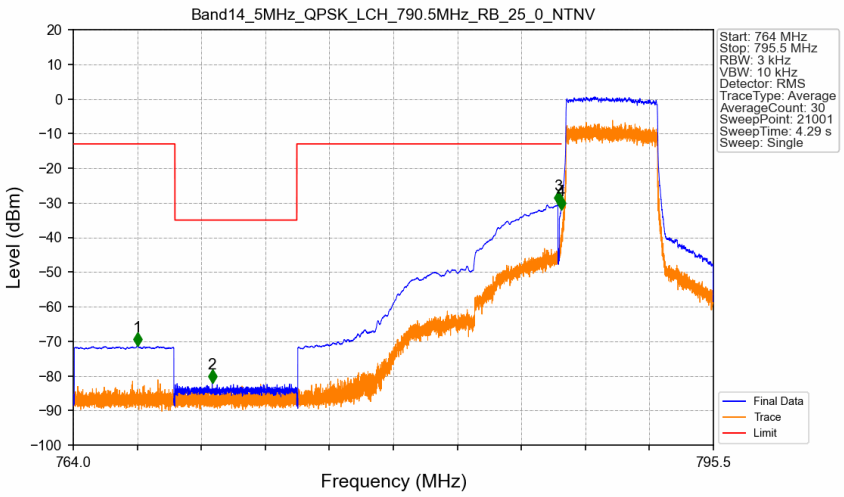


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	769	0.1	CHP	1	768.543	-71.37	-13	Pass
769	775	0.00625	CHP	2	773.391	-81.92	-35	Pass
775	787.9	0.1	CHP	3	787.848	-39.07	-13	Pass
787.9	788	0.03	CHP	4	787.999	-26.80	-13	Pass
788	795.5	0.03	CHP	/	/	/	/	/

Band14_5MHz_QPSK_LCH_790.5MHz_RB_1_0_NTNV

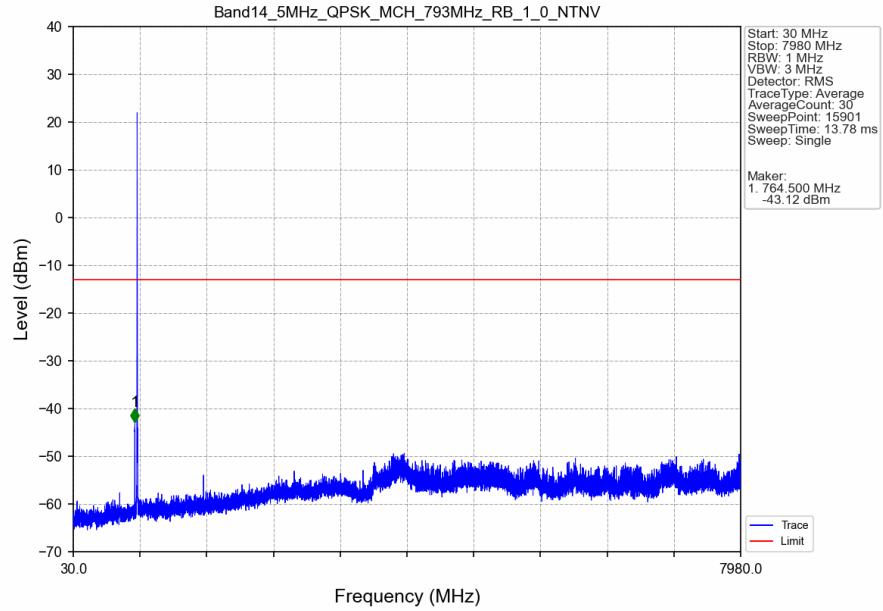


Band14_5MHz_QPSK_LCH_790.5MHz_RB_25_0_NTNV

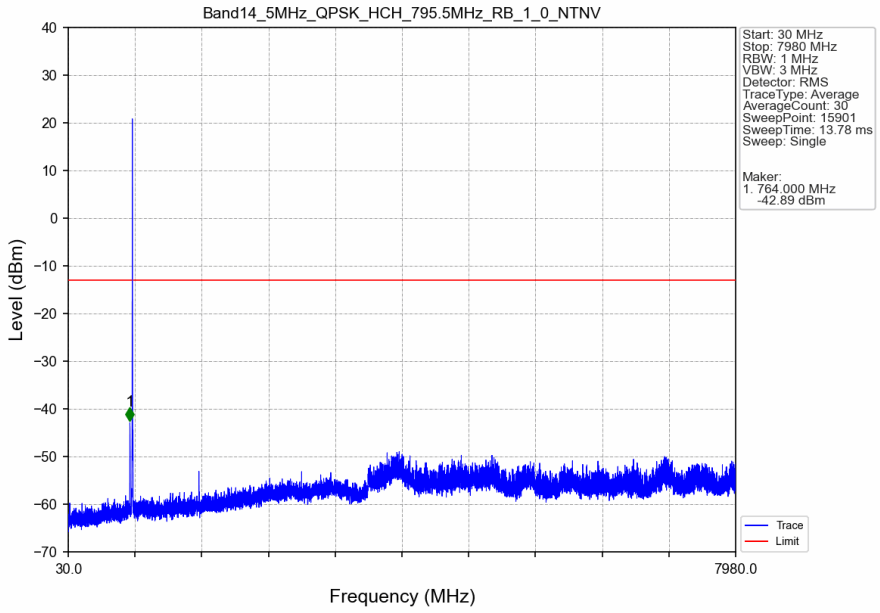


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	769	0.1	CHP	1	767.165	-71.34	-13	Pass
769	775	0.00625	CHP	2	770.834	-82.08	-35	Pass
775	787.9	0.1	CHP	3	787.848	-30.42	-13	Pass
787.9	788	0.03	CHP	4	787.999	-31.90	-13	Pass
788	795.5	0.03	CHP	/	/	/	/	/

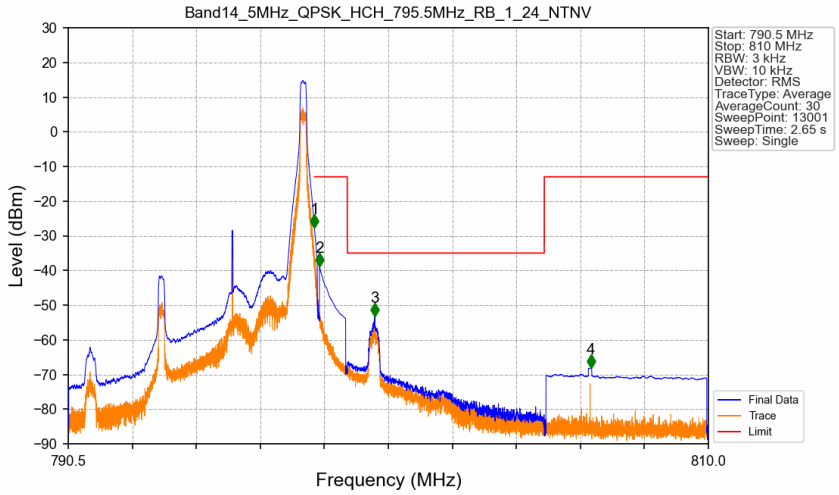
Band14_5MHz_QPSK_MCH_793MHz_RB_1_0_NTNV



Band14_5MHz_QPSK_HCH_795.5MHz_RB_1_0_NTNV

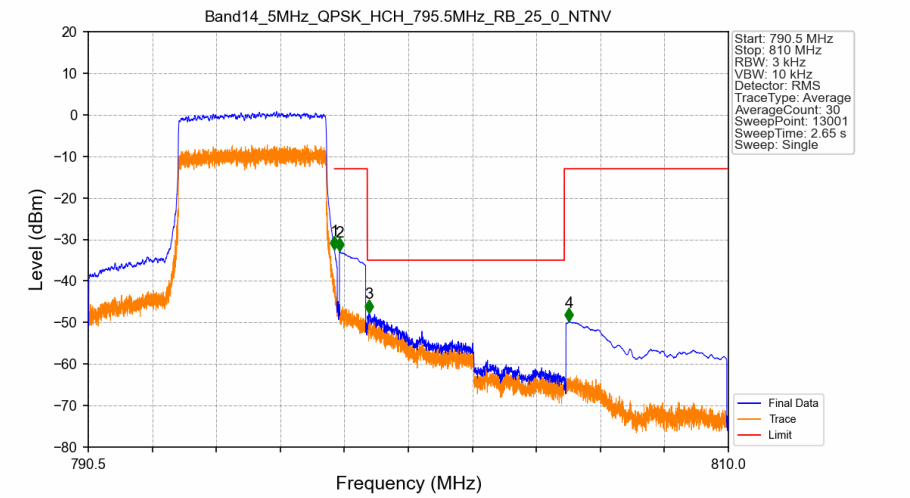


Band14_5MHz_QPSK_HCH_795.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	798	0.03	CHP	/	/	/	/	/
798	798.1	0.03	CHP	1	798.001	-27.74	-13	Pass
798.1	799	0.1	CHP	2	798.152	-38.76	-13	Pass
799	805	0.00625	CHP	3	799.835	-53.23	-35	Pass
805	810	0.1	CHP	4	806.417	-68.16	-13	Pass

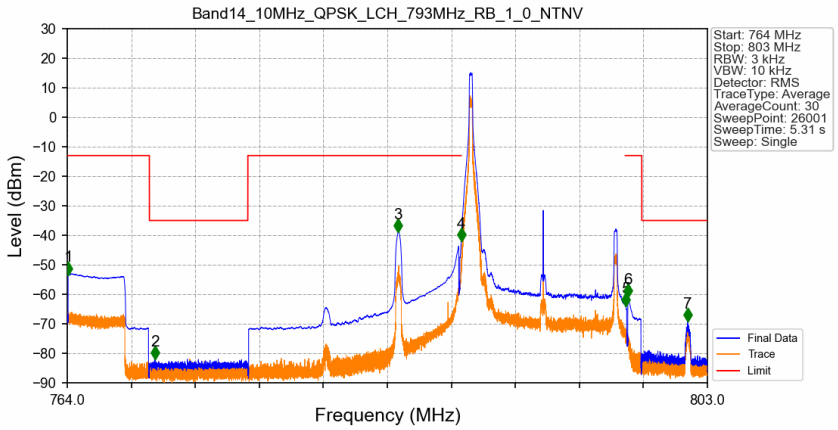
Band14_5MHz_QPSK_HCH_795.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	798	0.03	CHP	/	/	/	/	/
798	798.1	0.03	CHP	1	798.001	-32.47	-13	Pass
798.1	799	0.1	CHP	2	798.152	-32.71	-13	Pass
799	805	0.00625	CHP	3	799.048	-47.61	-35	Pass
805	810	0.1	CHP	4	805.143	-49.77	-13	Pass

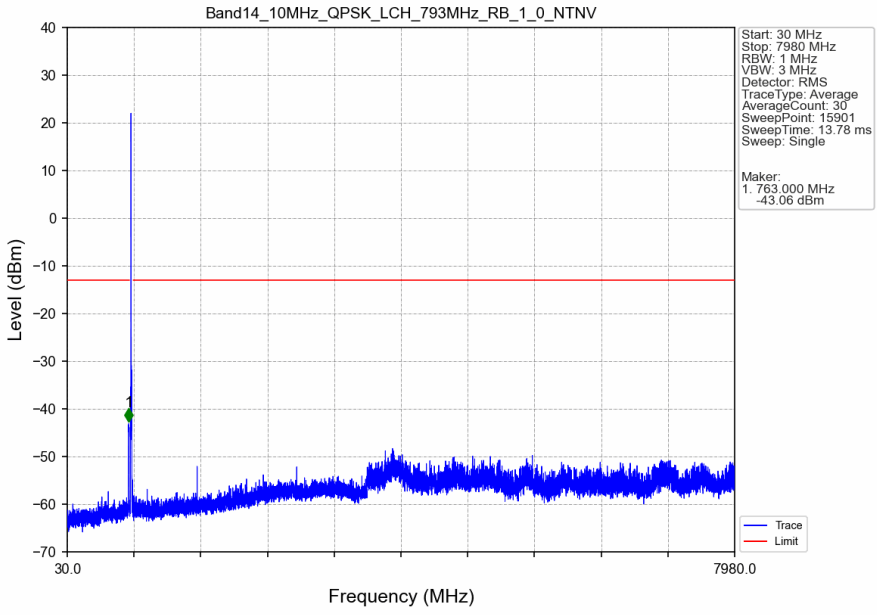
5.2.2 B14_10MHz

Band14_10MHz_QPSK_LCH_793MHz_RB_1_0_NTNV

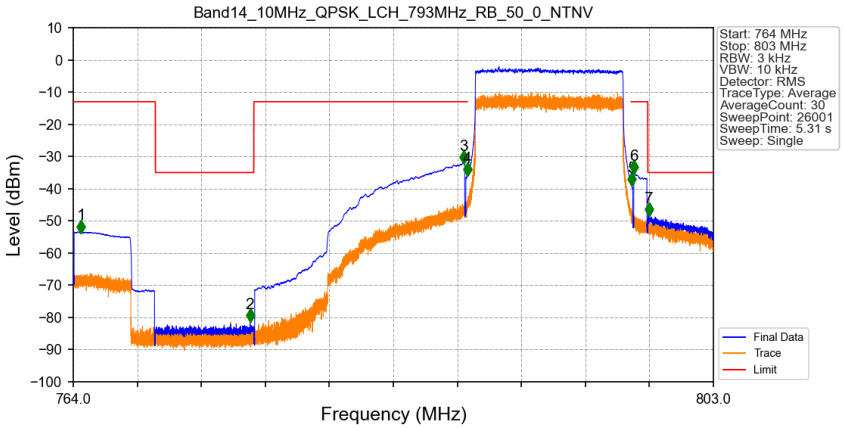


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	769	0.1	CHP	1	764.058	-53.08	-13	Pass
769	775	0.00625	CHP	2	769.354	-81.77	-35	Pass
775	787.9	0.1	CHP	3	784.164	-38.69	-13	Pass
787.9	788	0.03	CHP	4	787.999	-41.71	-13	Pass
788	798	0.03	CHP	/	/	/	/	/
798	798.1	0.03	CHP	5	798.004	-63.65	-13	Pass
798.1	799	0.1	CHP	6	798.150	-60.57	-13	Pass
799	803	0.00625	CHP	7	801.806	-68.85	-35	Pass

Band14_10MHz_QPSK_LCH_793MHz_RB_1_0_NTNV

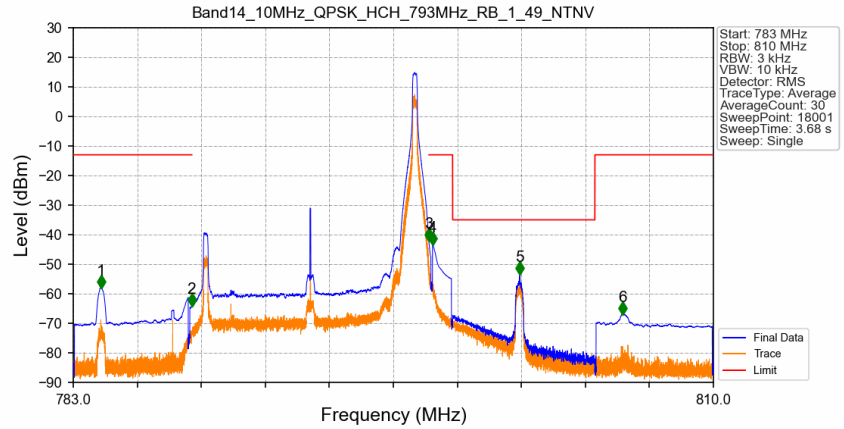


Band14_10MHz_QPSK_LCH_793MHz_RB_50_0_NTNV



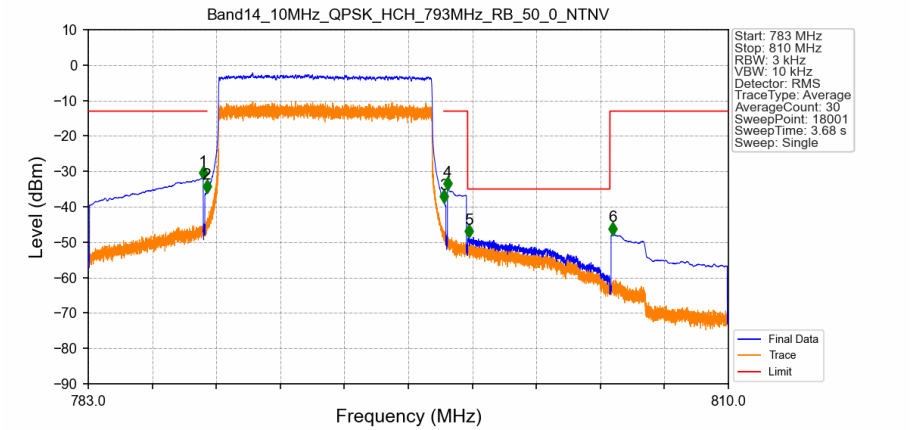
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	769	0.1	CHP	1	764.468	-53.46	-13	Pass
769	775	0.00625	CHP	2	774.770	-81.03	-35	Pass
775	787.9	0.1	CHP	3	787.805	-31.91	-13	Pass
787.9	788	0.03	CHP	4	787.997	-35.69	-13	Pass
788	798	0.03	CHP	/	/	/	/	/
798	798.1	0.03	CHP	5	798.000	-38.82	-13	Pass
798.1	799	0.1	CHP	6	798.150	-35.01	-13	Pass
799	803	0.00625	CHP	7	799.067	-48.26	-35	Pass

Band14_10MHz_QPSK_HCH_793MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.9	0.1	CHP	1	784.179	-57.78	-13	Pass
787.9	788	0.03	CHP	2	788.000	-64.06	-13	Pass
788	798	0.03	CHP	/	/	/	/	/
798	798.1	0.03	CHP	3	798.001	-42.01	-13	Pass
798.1	799	0.1	CHP	4	798.152	-43.16	-13	Pass
799	805	0.00625	CHP	5	801.834	-53.30	-35	Pass
805	810	0.1	CHP	6	806.159	-66.73	-13	Pass

Band14_10MHz_QPSK_HCH_793MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.9	0.1	CHP	1	787.846	-31.94	-13	Pass
787.9	788	0.03	CHP	2	787.998	-35.74	-13	Pass
788	798	0.03	CHP	/	/	/	/	/
798	798.1	0.03	CHP	3	798.001	-38.61	-13	Pass
798.1	799	0.1	CHP	4	798.152	-35.00	-13	Pass
799	805	0.00625	CHP	5	799.065	-48.40	-35	Pass
805	810	0.1	CHP	6	805.128	-47.69	-13	Pass

6. Emission Mask

6.1 Test Result

6.1.1 B14_5MHz

Band: 14 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Freq. (MHz)		Emission Mask (dBm)		Verdict
		Size	Offset	Start	Stop	Result	Limit	
QPSK	790.5	25	0	773	778	-68.58	-13	Pass
				778	785.5	-35.90	-28.94	Pass
				785.5	787.95	-27.28	-18.94	Pass
				787.95	793.05	6.06	6.06	Pass
				793.05	795.5	-31.95	-18.94	Pass
				795.5	803	-39.65	-28.94	Pass
				803	808	-57.37	-13	Pass
	793	25	0	775.5	780.5	-59.89	-13	Pass
				780.5	788	-32.58	-28.69	Pass
				788	790.45	-27.30	-18.69	Pass
				790.45	795.55	6.31	6.31	Pass
				795.55	798	-28.76	-18.69	Pass
				798	805.5	-39.74	-28.69	Pass
				805.5	810.5	-57.68	-13	Pass
	795.5	25	0	778	783	-57.36	-13	Pass
				783	790.5	-33.11	-28.89	Pass
				790.5	792.95	-28.30	-18.89	Pass
				792.95	798.05	6.11	6.11	Pass
				798.05	800.5	-28.53	-18.89	Pass
				800.5	808	-42.75	-28.89	Pass
				808	813	-55.92	-13	Pass
16QAM	790.5	25	0	773	778	-68.51	-13	Pass
				778	785.5	-37.57	-29.77	Pass
				785.5	787.95	-29.12	-19.77	Pass
				787.95	793.05	5.23	5.23	Pass
				793.05	795.5	-30.71	-19.77	Pass
				795.5	803	-40.08	-29.77	Pass
				803	808	-58.45	-13	Pass
	793	25	0	775.5	780.5	-61.39	-13	Pass
				780.5	788	-35.04	-29.98	Pass
				788	790.45	-29.45	-19.98	Pass
				790.45	795.55	5.02	5.02	Pass
				795.55	798	-31.06	-19.98	Pass
				798	805.5	-40.51	-29.98	Pass
				805.5	810.5	-58.61	-13	Pass
	795.5	25	0	778	783	-58.39	-13	Pass
				783	790.5	-35.07	-29.56	Pass
				790.5	792.95	-28.06	-19.56	Pass
				792.95	798.05	5.44	5.44	Pass
				798.05	800.5	-31.42	-19.56	Pass
				800.5	808	-42.11	-29.56	Pass
				808	813	-57.85	-13	Pass

6.1.2 B14_10MHz

Band: 14 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Freq. (MHz)		Emission Mask (dBm)		Verdict
		Size	Offset	Start	Stop	Result	Limit	
QPSK	793	50	0	758	768	-52.43	-13	Pass
				768	783	-38.98	-32.02	Pass
				783	787.95	-30.70	-22.02	Pass
				787.95	798.05	2.98	2.98	Pass
				798.05	803	-34.28	-22.02	Pass
				803	818	-41.27	-32.02	Pass
				818	828	-72.26	-13	Pass
16QAM	793	50	0	758	768	-52.19	-13	Pass
				768	783	-40.83	-32.9	Pass
				783	787.95	-32.30	-22.9	Pass
				787.95	798.05	2.10	2.1	Pass
				798.05	803	-36.76	-22.9	Pass
				803	818	-42.94	-32.9	Pass
				818	828	-72.48	-13	Pass

7. Field Strength of Spurious Radiation

LTE Band 14-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0				
Frequency	**Spurious Emission Level**		**Limit**	**Margin**
(MHz)	**Polaxis**	**(dBm)**	**(dBm)**	**(dB)**
1580.5	H	-62.28	-40	22.28
2370.75	H	-60.08	-13	47.08
3161	H	-57.57	-13	44.57
1580.5	V	-62.01	-40	22.01
2370.75	V	-59.91	-13	46.91
3161	V	-57.53	-13	44.53

LTE Band 14-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0				
Frequency	**Spurious Emission Level**		**Limit**	**Margin**
(MHz)	**Polaxis**	**(dBm)**	**(dBm)**	**(dB)**
1581.5	H	-55.49	-40	15.49
2372.25	H	-57.09	-13	44.09
3163	H	-54.22	-13	41.22
1581.5	V	-50.59	-40	10.59
2372.25	V	-59.05	-13	46.05
3163	V	-56.33	-13	43.33

LTE Band 14-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0				
Frequency	**Spurious Emission Level**		**Limit**	**Margin**
(MHz)	**Polaxis**	**(dBm)**	**(dBm)**	**(dB)**
1582.5	H	-62.64	-40	22.64
2373.75	H	-60.04	-13	47.04
3165	H	-57.91	-13	44.91
1582.5	V	-63.36	-40	23.36
2373.75	V	-59.67	-13	46.67
3165	V	-57.83	-13	44.83