

1. Transmitter Conducted Power Output

1.1 Test Result

1.1.1 B26a_1.4MHz_ERP

Band: 26a / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	814.7	1	0	22.64	<=38.45	Pass
			5	22.65	<=38.45	Pass
		6	0	21.66	<=38.45	Pass
	819	1	0	22.73	<=38.45	Pass
			5	22.68	<=38.45	Pass
		6	0	21.75	<=38.45	Pass
	823.3	1	0	22.65	<=38.45	Pass
			5	22.70	<=38.45	Pass
		6	0	21.70	<=38.45	Pass
16QAM	814.7	1	0	21.81	<=38.45	Pass
			5	21.71	<=38.45	Pass
		6	0	20.63	<=38.45	Pass
	819	1	0	21.84	<=38.45	Pass
			5	21.64	<=38.45	Pass
		6	0	20.57	<=38.45	Pass
	823.3	1	0	21.69	<=38.45	Pass
			5	21.67	<=38.45	Pass
		6	0	20.62	<=38.45	Pass

1.1.2 B26a_3MHz_ERP

Band: 26a / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	815.5	1	0	22.70	<=38.45	Pass
			14	22.68	<=38.45	Pass
		15	0	21.67	<=38.45	Pass
	819	1	0	22.71	<=38.45	Pass
			14	22.68	<=38.45	Pass
		15	0	21.73	<=38.45	Pass
	822.5	1	0	22.72	<=38.45	Pass
			14	22.75	<=38.45	Pass
		15	0	21.77	<=38.45	Pass
16QAM	815.5	1	0	22.24	<=38.45	Pass
			14	21.67	<=38.45	Pass
		15	0	20.63	<=38.45	Pass
	819	1	0	22.28	<=38.45	Pass
			14	21.69	<=38.45	Pass
		15	0	20.69	<=38.45	Pass
	822.5	1	0	22.32	<=38.45	Pass
			14	21.74	<=38.45	Pass
		15	0	20.69	<=38.45	Pass

1.1.3 B26a_5MHz_ERP

Band: 26a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	816.5	1	0	22.74	<=38.45	Pass
			24	22.68	<=38.45	Pass
		25	0	21.73	<=38.45	Pass
	819	1	0	22.74	<=38.45	Pass
			24	22.71	<=38.45	Pass
		25	0	21.71	<=38.45	Pass
	821.5	1	0	22.79	<=38.45	Pass
			24	22.79	<=38.45	Pass
		25	0	21.75	<=38.45	Pass
16QAM	816.5	1	0	21.60	<=38.45	Pass
			24	21.86	<=38.45	Pass
		25	0	20.68	<=38.45	Pass
	819	1	0	21.64	<=38.45	Pass
			24	21.86	<=38.45	Pass
		25	0	20.68	<=38.45	Pass
	821.5	1	0	21.62	<=38.45	Pass
			24	21.89	<=38.45	Pass
		25	0	20.75	<=38.45	Pass

1.1.4 B26a_10MHz_ERP

Band: 26a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	819	1	0	22.94	<=38.45	Pass
			49	22.98	<=38.45	Pass
		50	0	21.81	<=38.45	Pass
16QAM	819	1	0	22.11	<=38.45	Pass
			49	22.58	<=38.45	Pass
		50	0	20.82	<=38.45	Pass

2. Frequency Stability

2.1 Test Result

2.1.1 B26a_10MHz

Band: 26a / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	819	50	0	20	12	1.016	0.0012	-2.5 to 2.5	Pass
					24	0.243	0.0003	-2.5 to 2.5	Pass
					48	1.030	0.0013	-2.5 to 2.5	Pass
				-30	24	0.815	0.0010	-2.5 to 2.5	Pass
				-20	24	0.858	0.0010	-2.5 to 2.5	Pass
				-10	24	0.343	0.0004	-2.5 to 2.5	Pass
				0	24	0.587	0.0007	-2.5 to 2.5	Pass
				10	24	0.758	0.0009	-2.5 to 2.5	Pass
				30	24	0.916	0.0011	-2.5 to 2.5	Pass
				40	24	0.200	0.0002	-2.5 to 2.5	Pass
				50	24	0.687	0.0008	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band26a_OBW

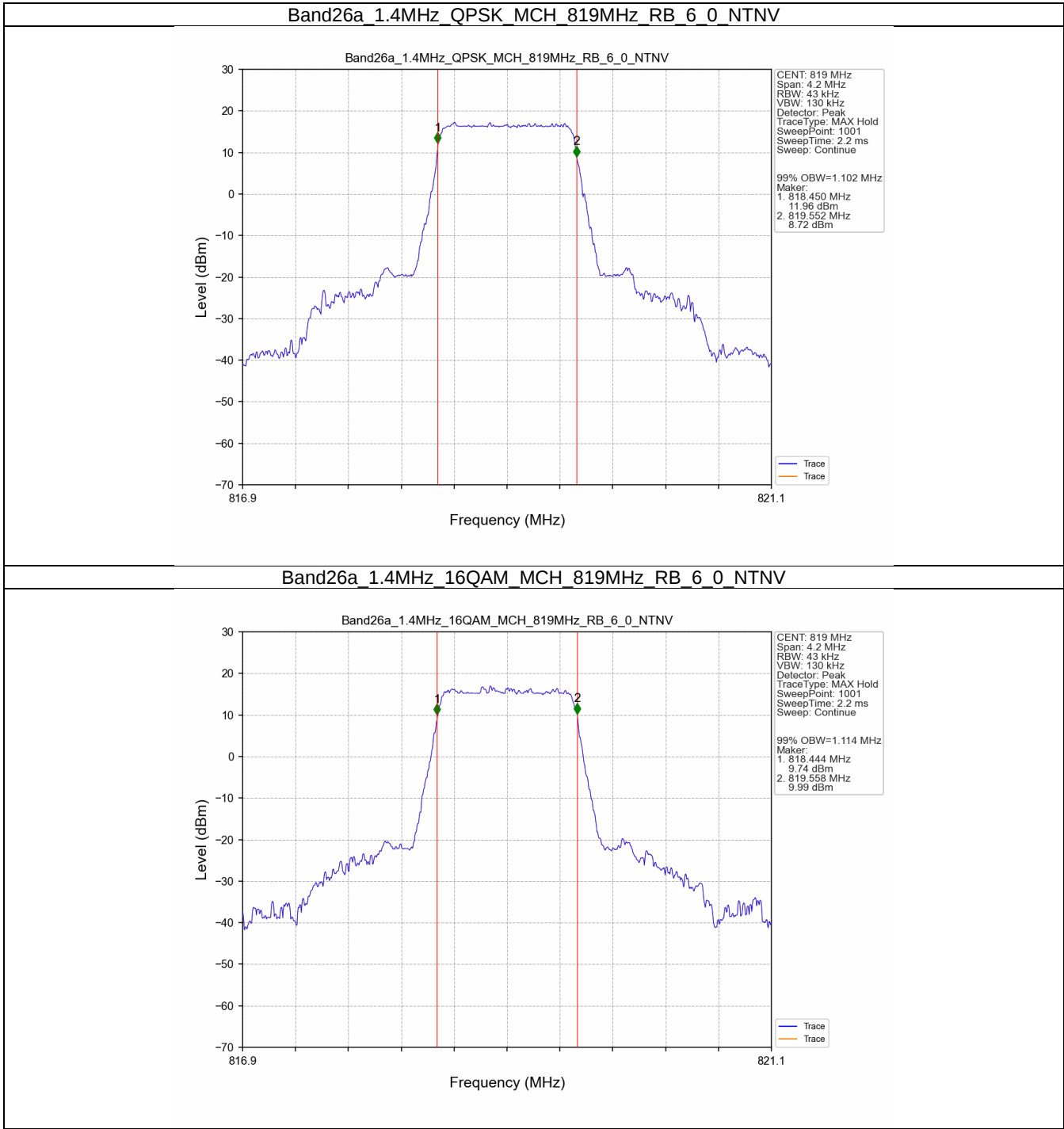
Band: 26a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	819	6	0	1.102	/	Pass
	16QAM	819	6	0	1.114	/	Pass
3	QPSK	819	15	0	2.740	/	Pass
	16QAM	819	15	0	2.733	/	Pass
5	QPSK	819	25	0	4.560	/	Pass
	16QAM	819	25	0	4.573	/	Pass
10	QPSK	819	50	0	9.064	/	Pass
	16QAM	819	50	0	9.039	/	Pass

3.1.2 Band26a_XDB

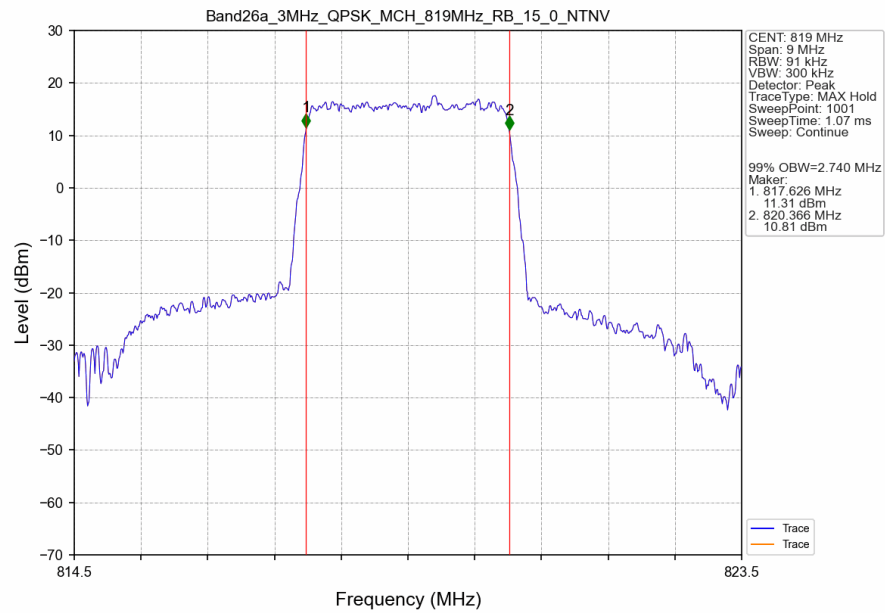
Band: 26a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	819	6	0	1.337	/	Pass
	16QAM	819	6	0	1.332	/	Pass
3	QPSK	819	15	0	3.060	/	Pass
	16QAM	819	15	0	3.055	/	Pass
5	QPSK	819	25	0	5.047	/	Pass
	16QAM	819	25	0	5.100	/	Pass
10	QPSK	819	50	0	10.002	/	Pass
	16QAM	819	50	0	10.006	/	Pass

3.2 Test Graph

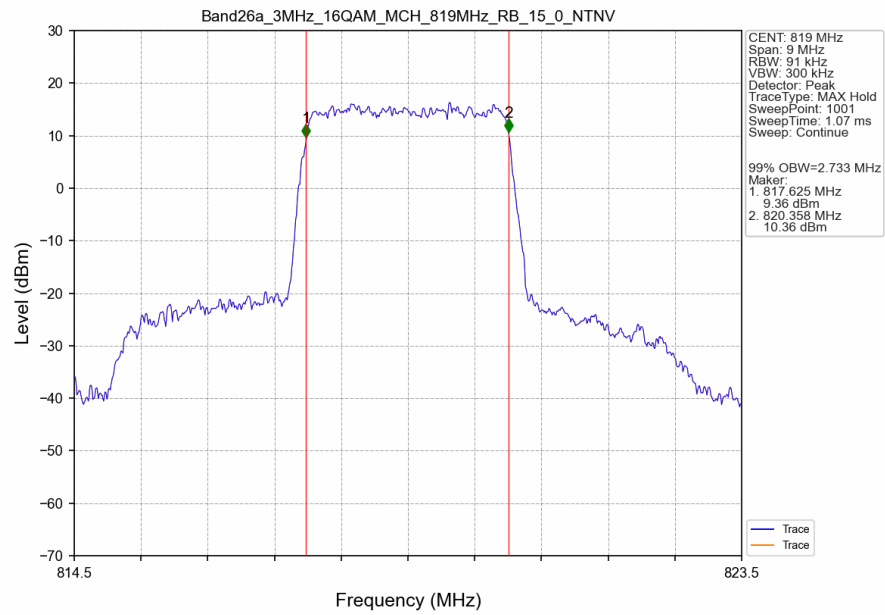
3.2.1 Band26a_OBW



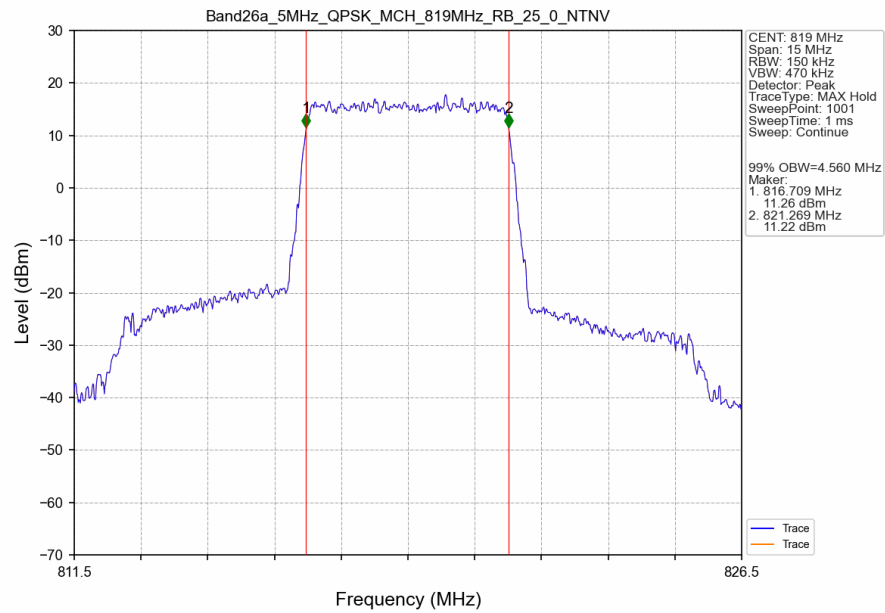
Band26a 3MHz QPSK MCH 819MHz RB 15 0 NTNV



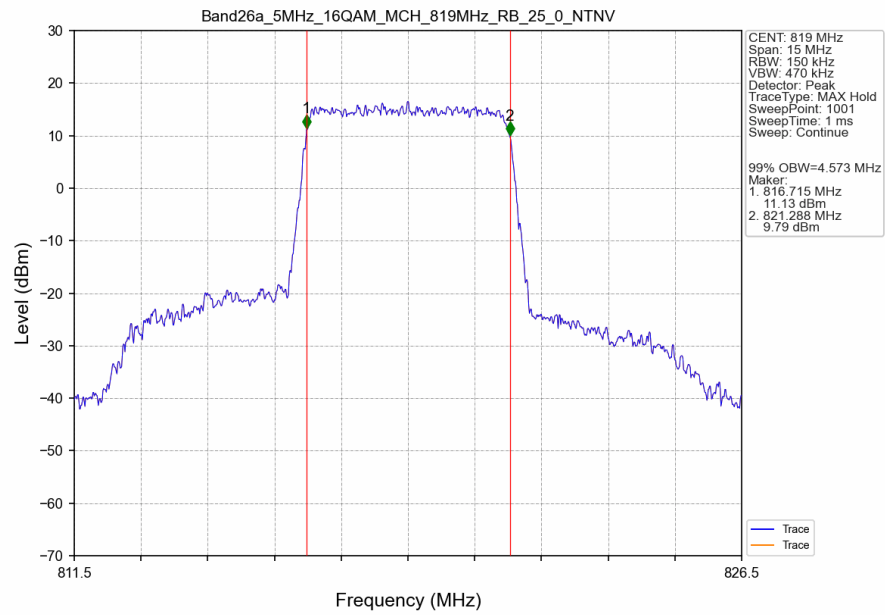
Band26a 3MHz 16QAM MCH 819MHz RB 15 0 NTNV



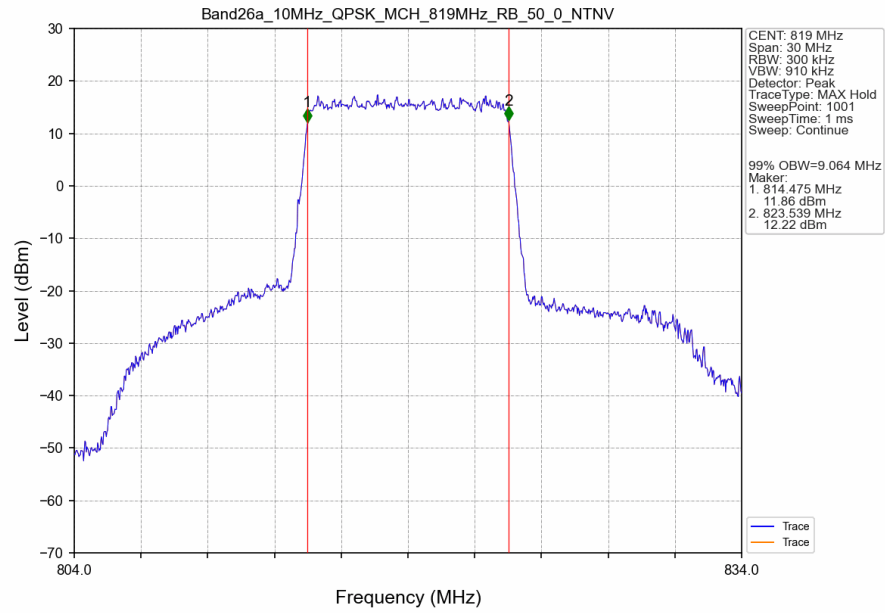
Band26a 5MHz QPSK MCH 819MHz RB 25 0 NTV



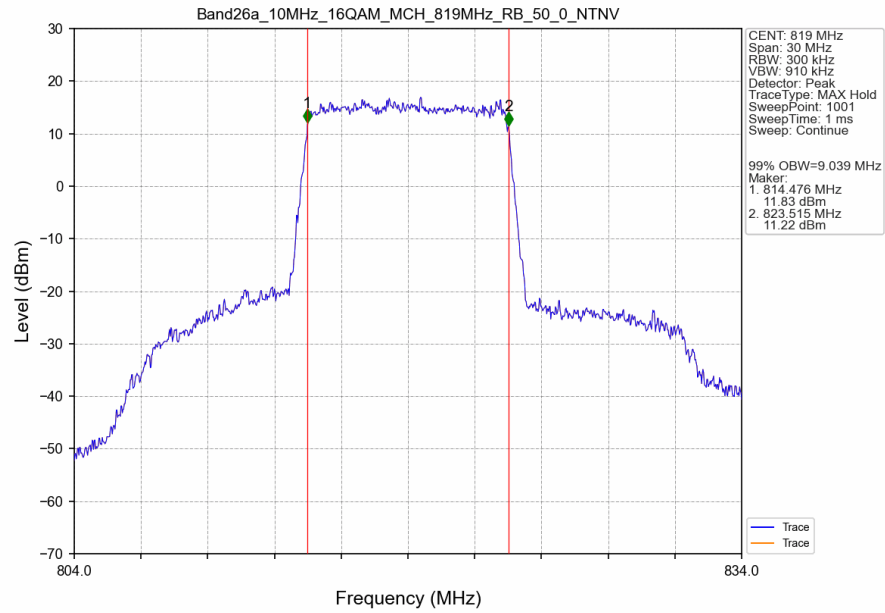
Band26a 5MHz 16QAM MCH 819MHz RB 25 0 NTV



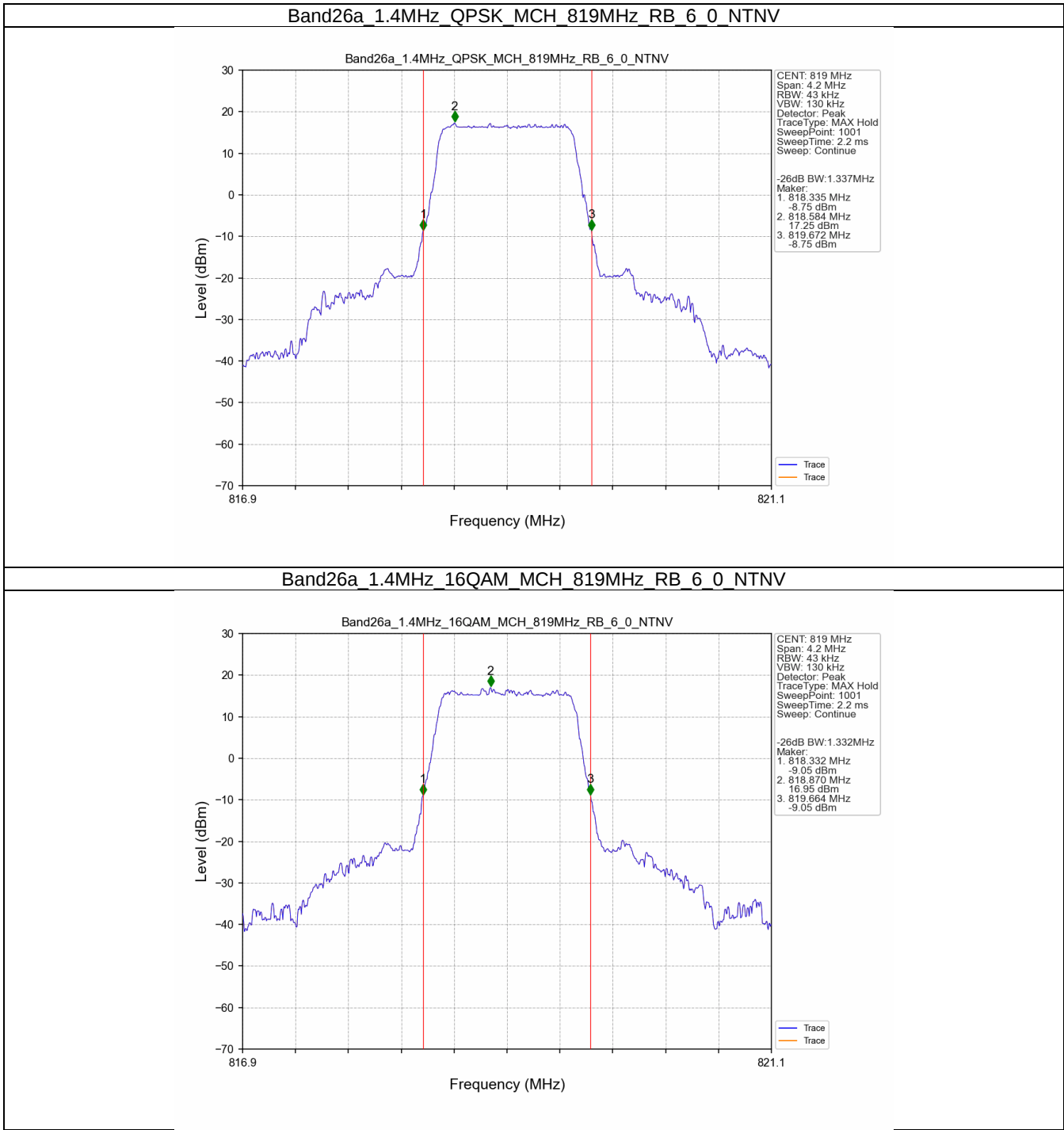
Band26a 10MHz QPSK MCH 819MHz RB 50 0 NTV



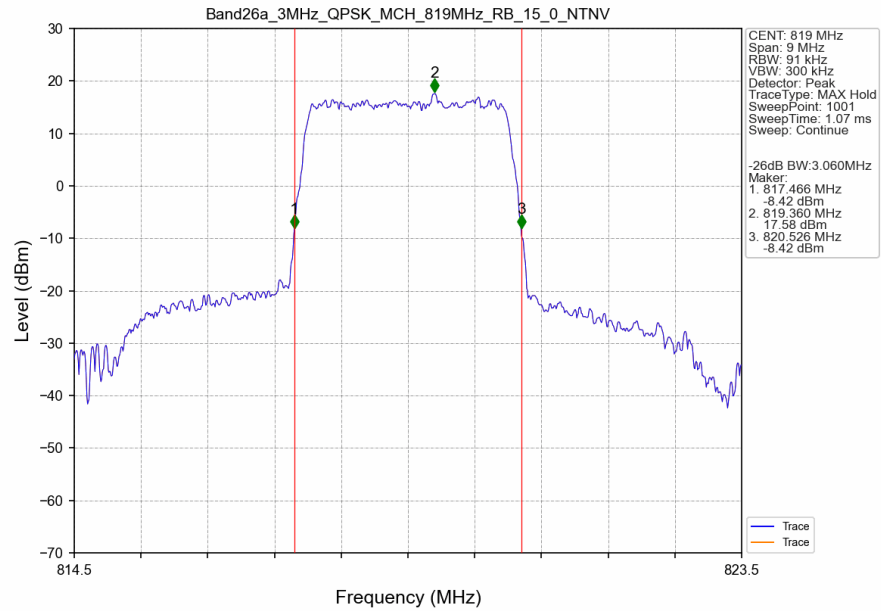
Band26a 10MHz 16QAM MCH 819MHz RB 50 0 NTV



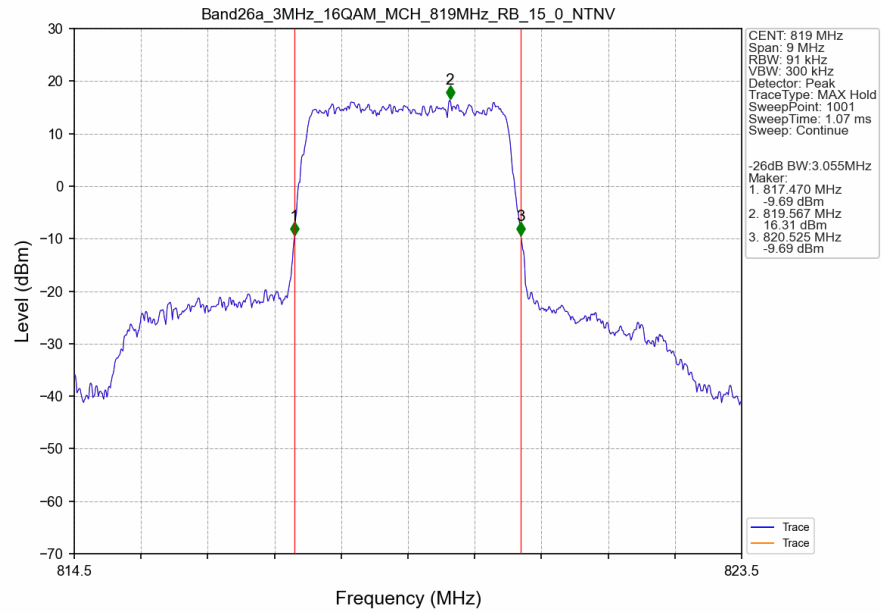
3.2.2 Band26a_XDB



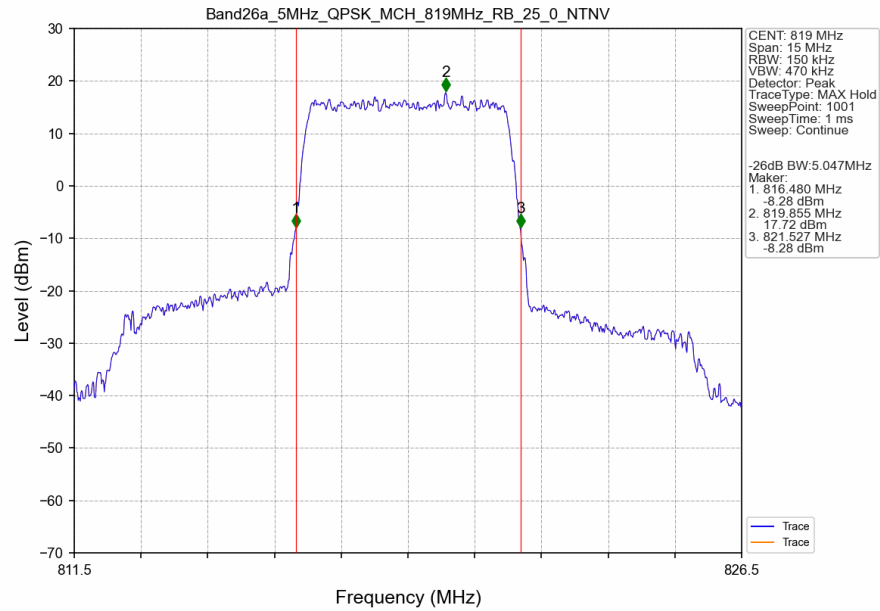
Band26a 3MHz QPSK MCH 819MHz RB 15 0 NTN



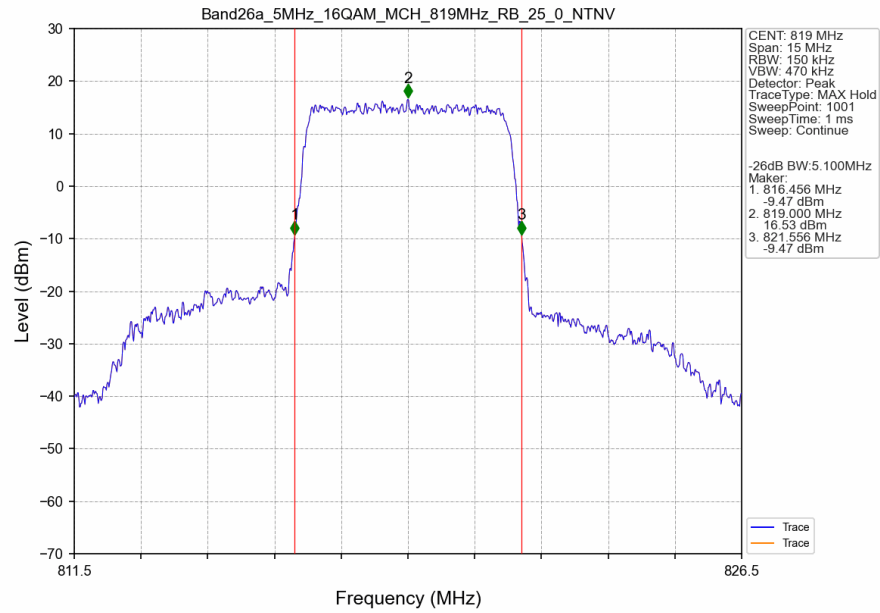
Band26a 3MHz 16QAM MCH 819MHz RB 15 0 NTN



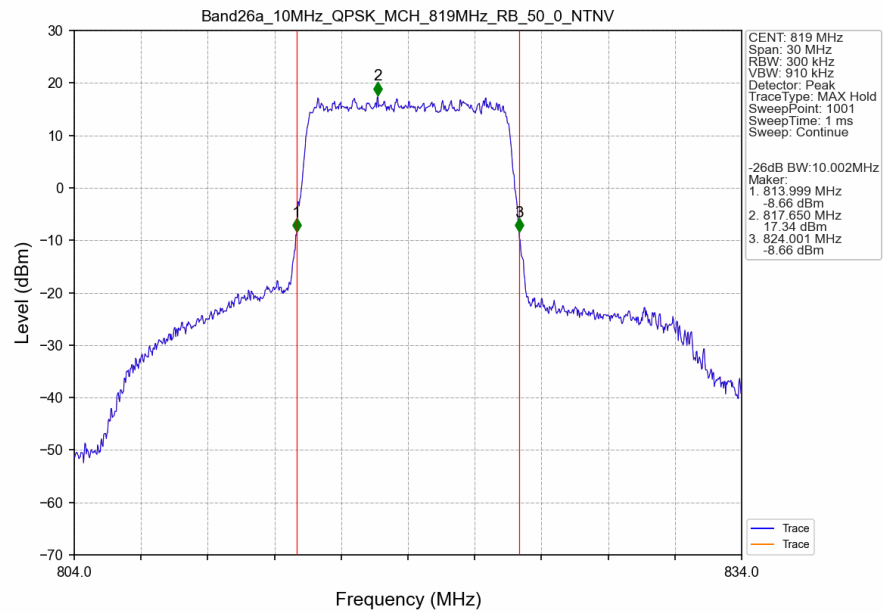
Band26a 5MHz QPSK MCH 819MHz RB 25 0 NTNV



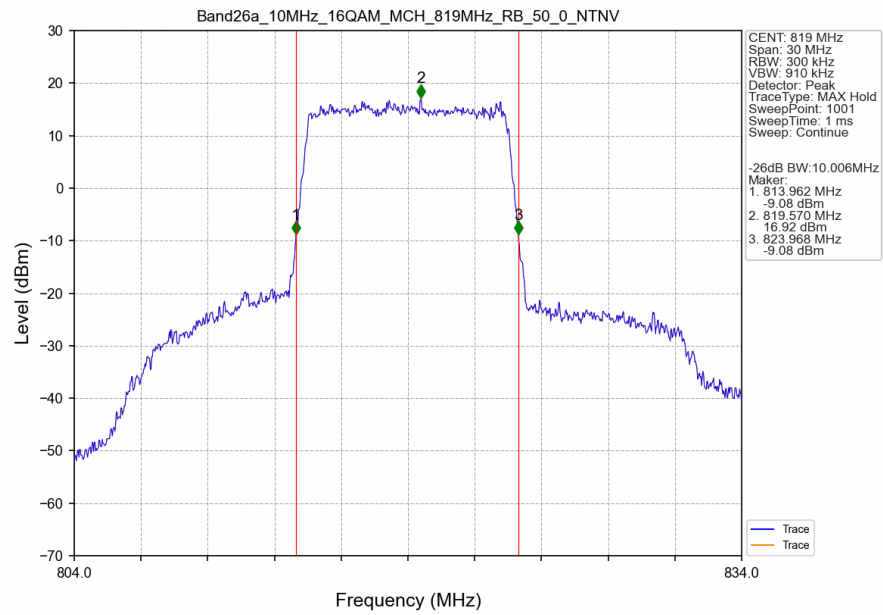
Band26a 5MHz 16QAM MCH 819MHz RB 25 0 NTNV



Band26a 10MHz QPSK MCH 819MHz RB 50 0 NTN



Band26a 10MHz 16QAM MCH 819MHz RB 50 0 NTN



4. Peak-Average Ratio

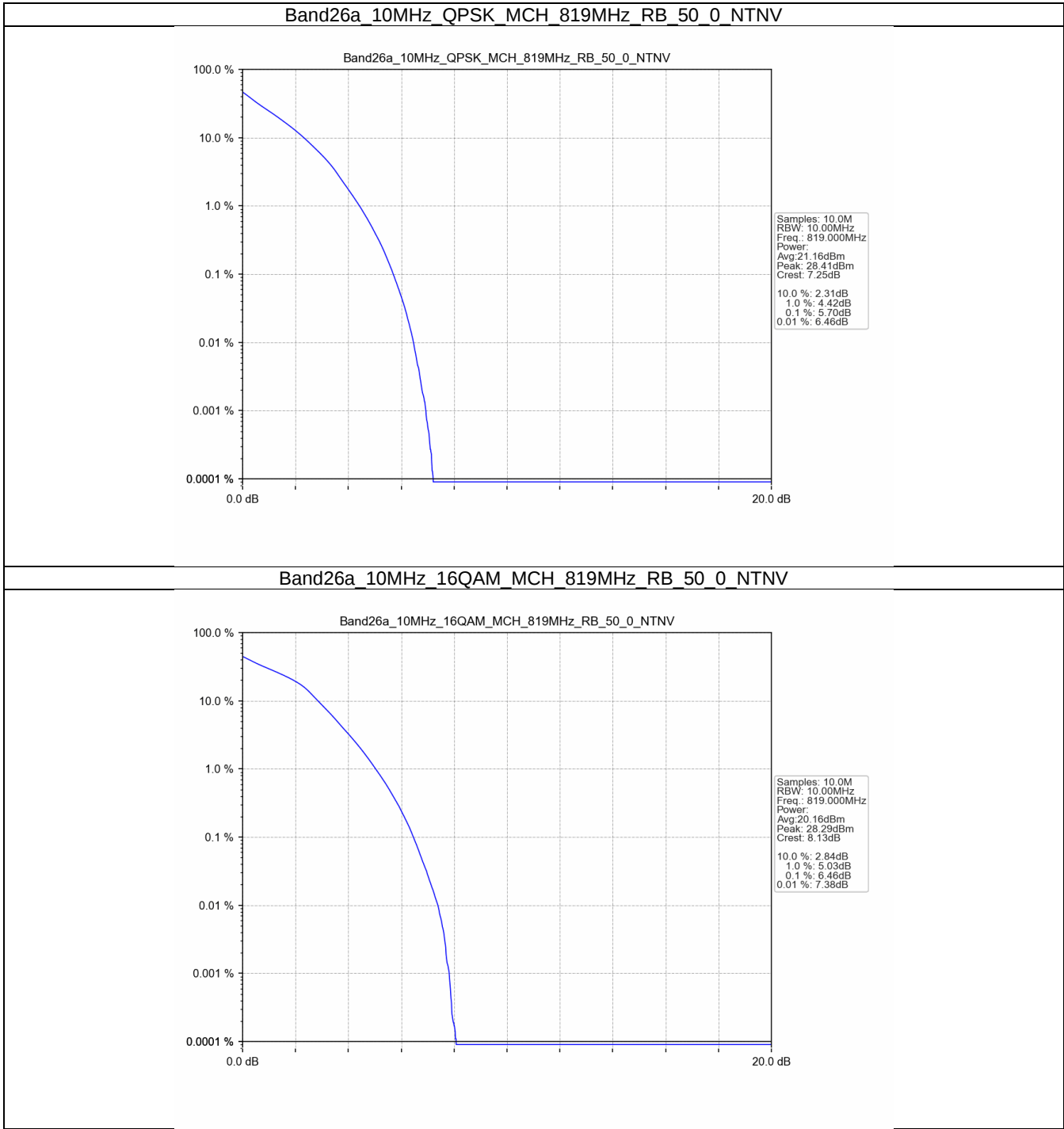
4.1 Test Result

4.1.1 B26a_10MHz

Band: 26a / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	819	50	0	5.70	<=13	Pass
16QAM	819	50	0	6.46	<=13	Pass

4.2 Test Graph

4.2.1 B26a_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B26a_1.4MHz

Band: 26a / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	814.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	819	1	0	Refer To Test Graph		Pass
	823.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

5.1.2 B26a_3MHz

Band: 26a / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	815.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	819	1	0	Refer To Test Graph		Pass
	822.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

5.1.3 B26a_5MHz

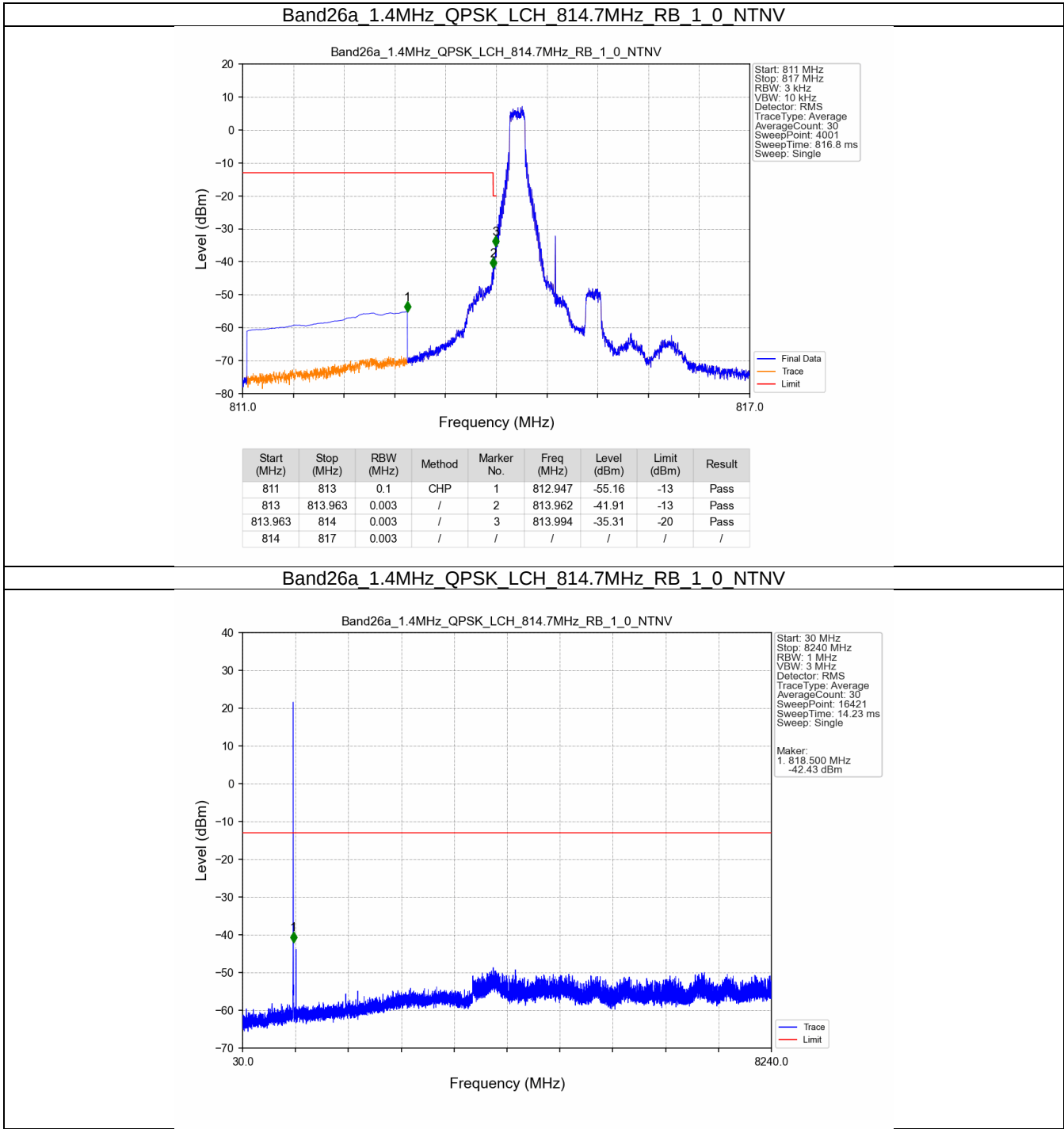
Band: 26a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	816.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	819	1	0	Refer To Test Graph		Pass
	821.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.4 B26a_10MHz

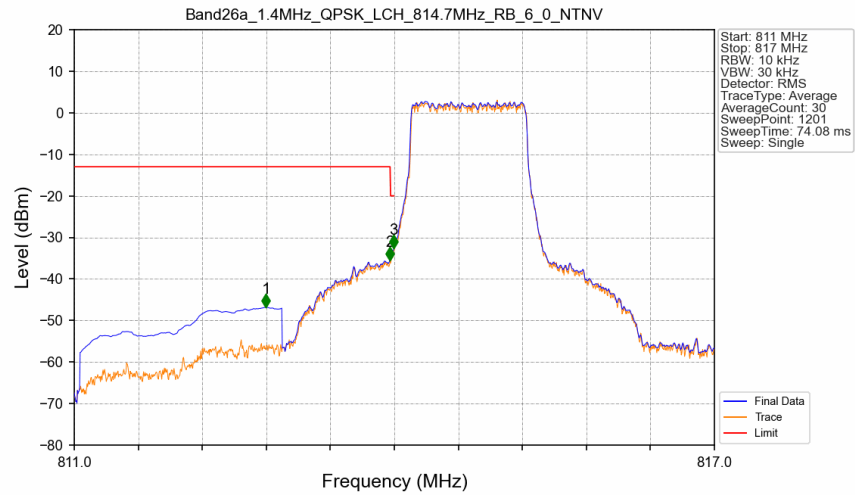
Band: 26a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	819	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	819	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 B26a_1.4MHz

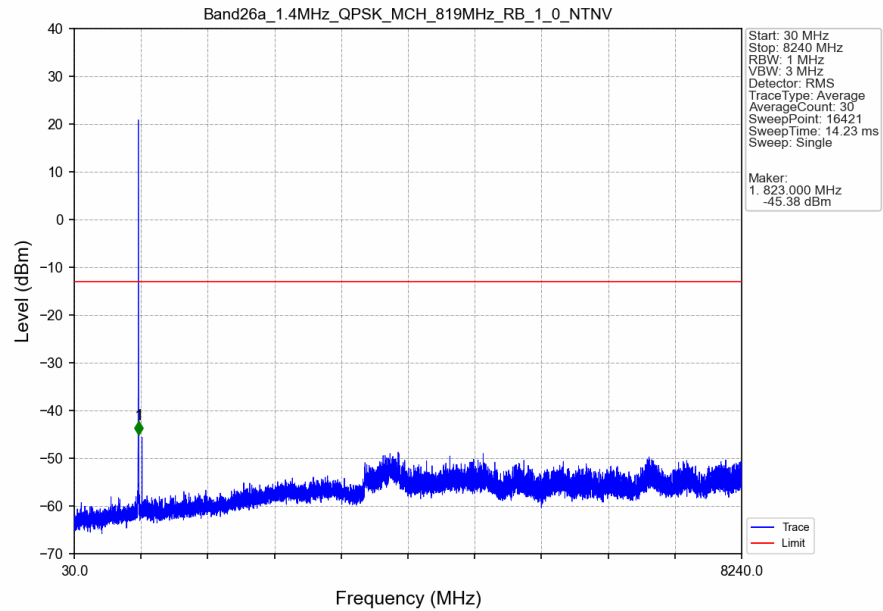


Band26a 1.4MHz QPSK LCH 814.7MHz RB 6 0 NTV

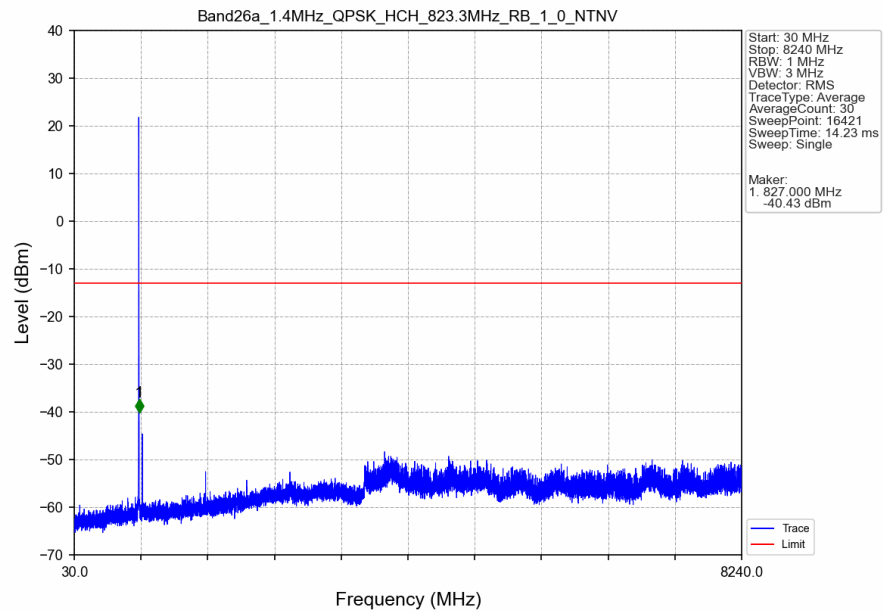


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	812.795	-46.82	-13	Pass
813	813.963	0.013	CHP	2	813.960	-35.43	-13	Pass
813.963	814	0.013	CHP	3	813.995	-32.64	-20	Pass
814	817	0.013	CHP	/	/	/	/	/

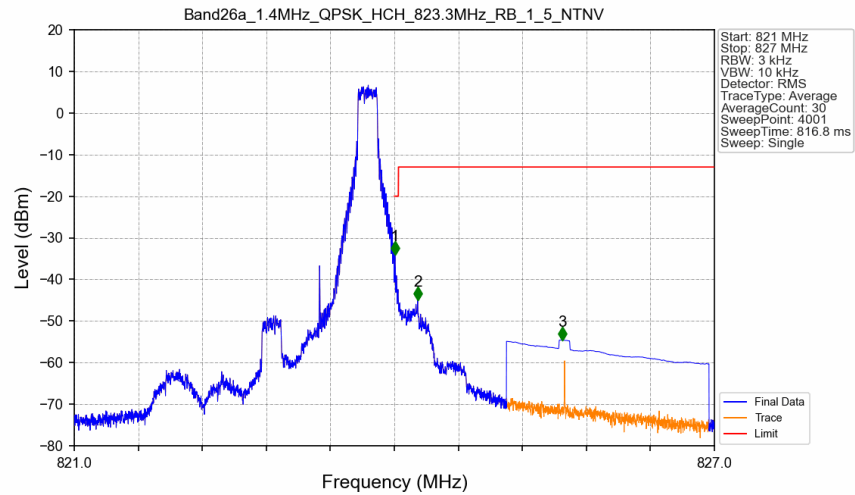
Band26a 1.4MHz QPSK MCH 819MHz RB 1 0 NTV



Band26a 1.4MHz QPSK HCH 823.3MHz RB 1 0 NTNV

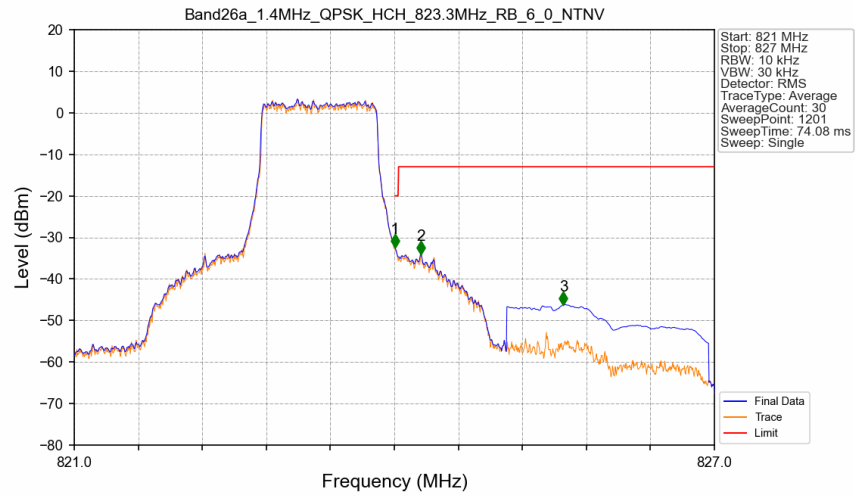


Band26a 1.4MHz QPSK HCH 823.3MHz RB 1 5 NTNV



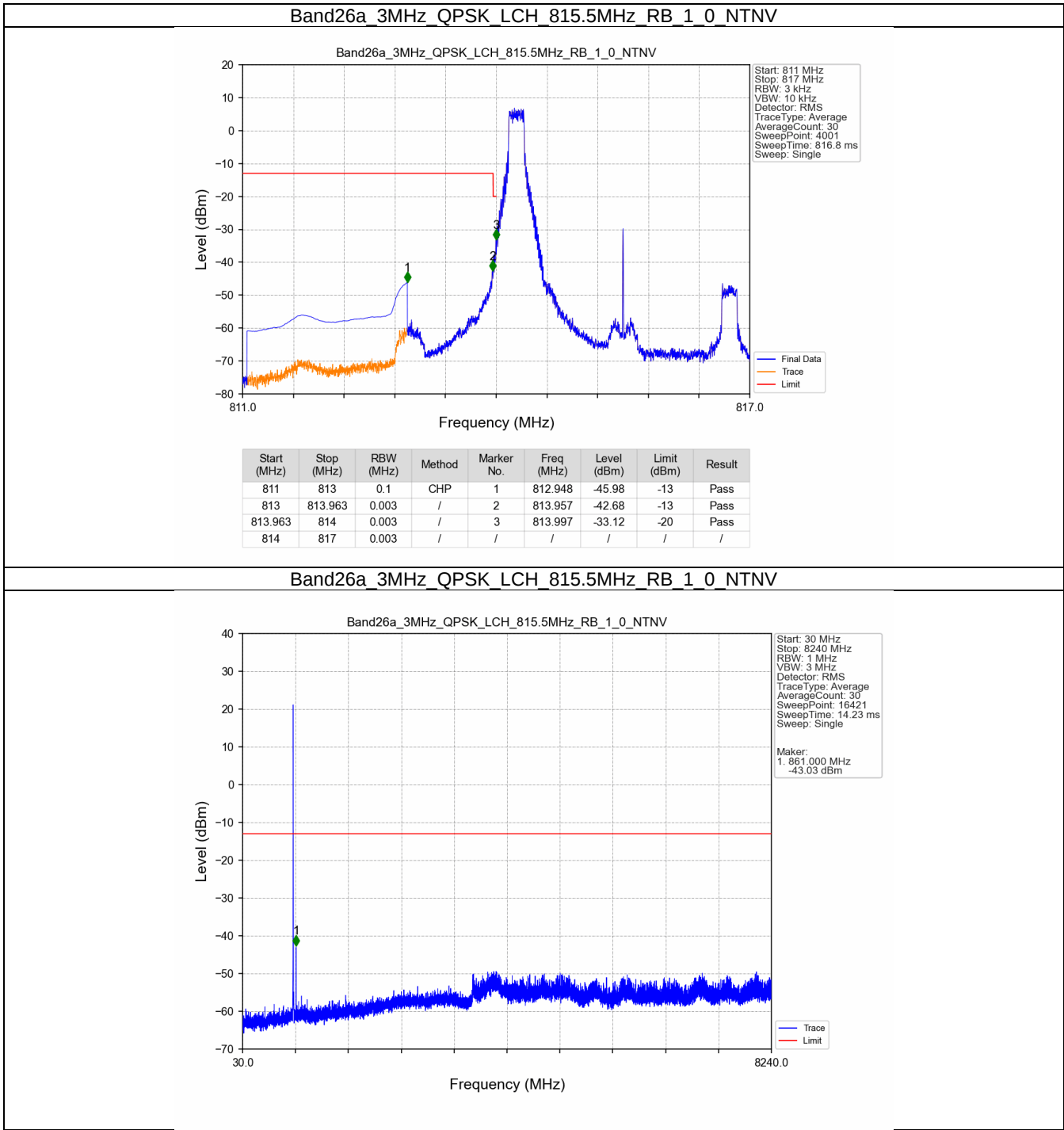
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.006	-34.11	-20	Pass
824.038	825	0.003	/	2	824.219	-44.99	-13	Pass
825	827	0.1	CHP	3	825.577	-54.57	-13	Pass

Band26a 1.4MHz QPSK HCH 823.3MHz RB 6 0 NTV

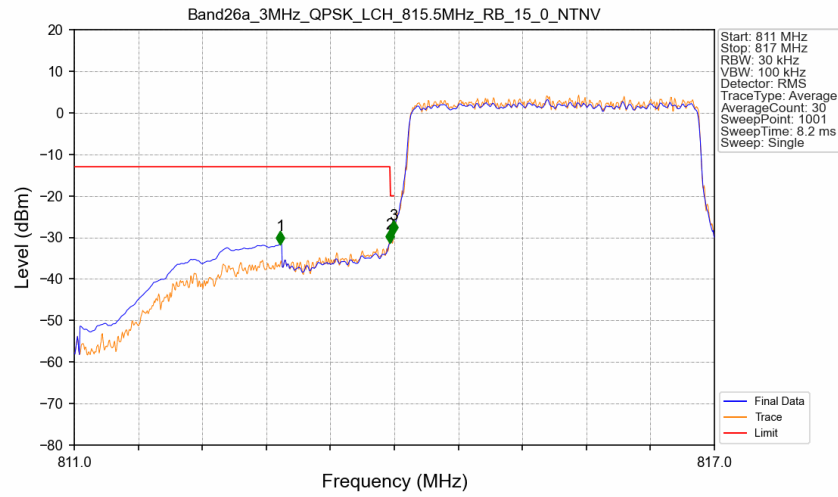


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.013	CHP	/	/	/	/	/
824	824.038	0.013	CHP	1	824.005	-32.39	-20	Pass
824.038	825	0.013	CHP	2	824.250	-34.04	-13	Pass
825	827	0.1	CHP	3	825.585	-46.19	-13	Pass

5.2.2 B26a_3MHz

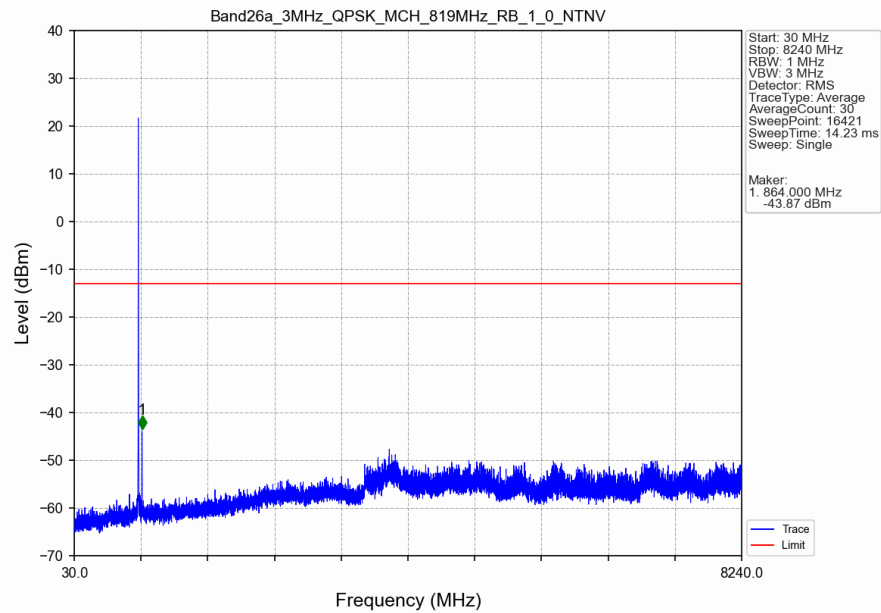


Band26a 3MHz QPSK LCH 815.5MHz RB 15 0 NTNV

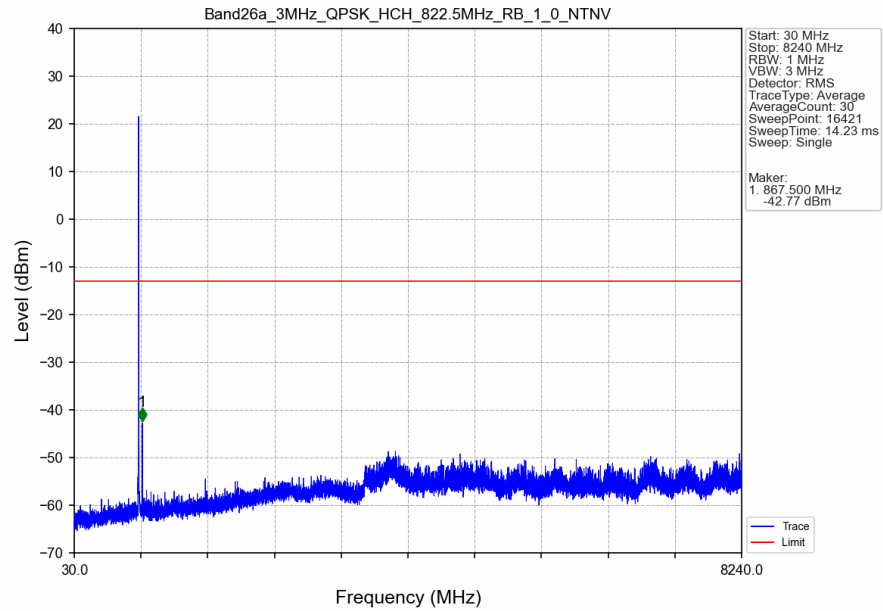


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	812.932	-31.63	-13	Pass
813	813.963	0.031	CHP	2	813.958	-31.28	-13	Pass
813.963	814	0.031	CHP	3	813.994	-29.15	-20	Pass
814	817	0.031	CHP	/	/	/	/	/

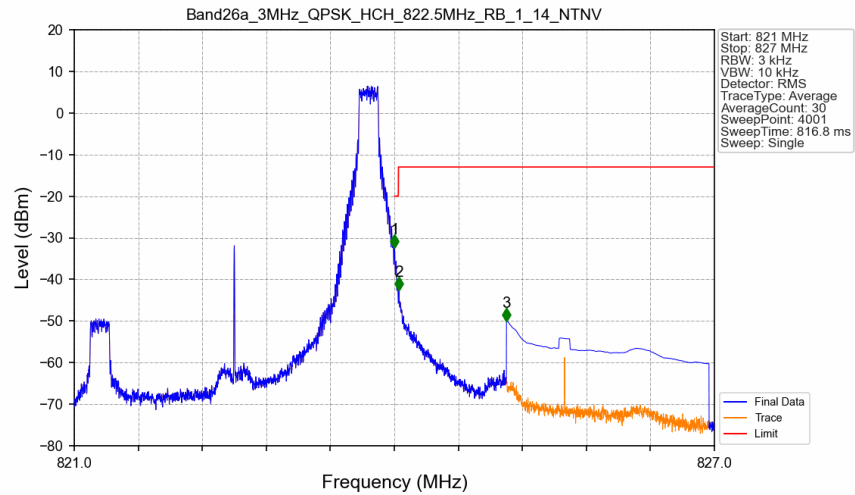
Band26a 3MHz QPSK MCH 819MHz RB 1 0 NTNV



Band26a 3MHz QPSK HCH 822.5MHz RB 1 0 NTV

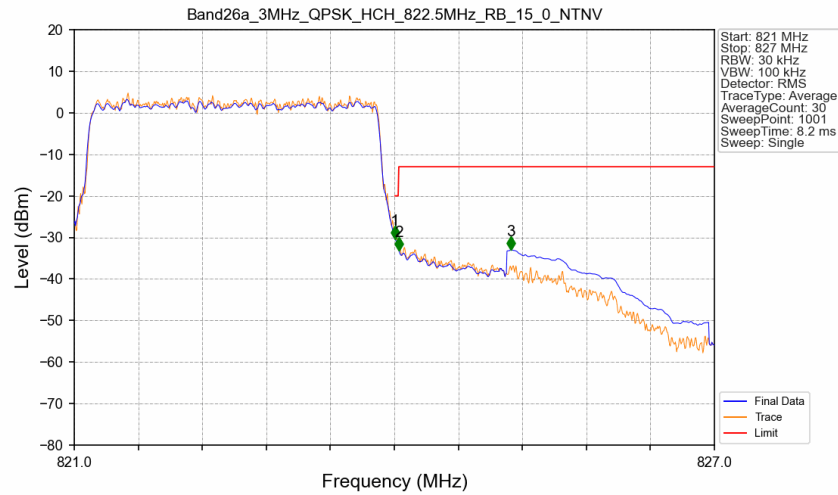


Band26a 3MHz QPSK HCH 822.5MHz RB 1 14 NTV



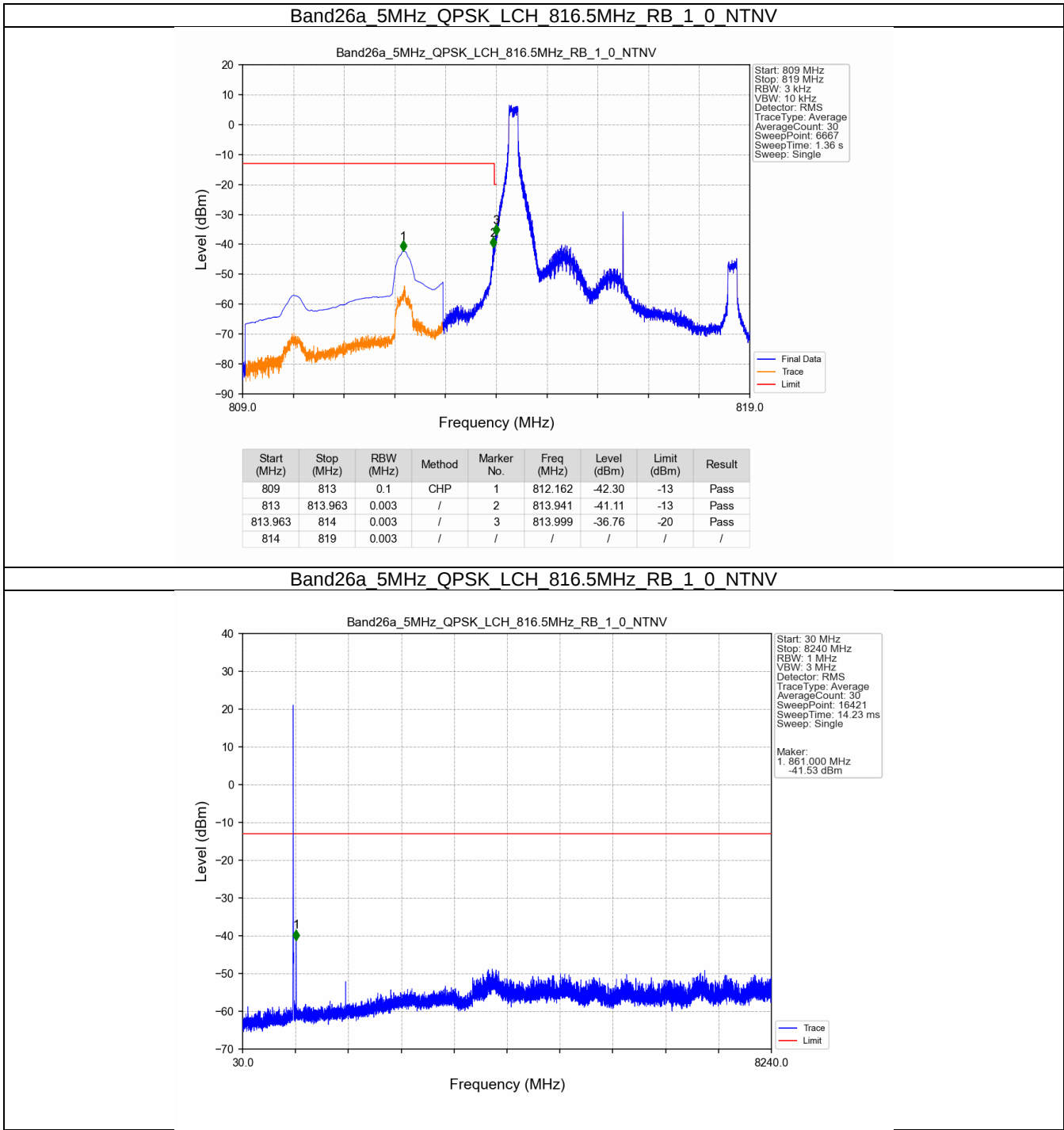
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.001	-32.43	-20	Pass
824.038	825	0.003	/	2	824.043	-42.56	-13	Pass
825	827	0.1	CHP	3	825.052	-50.07	-13	Pass

Band26a 3MHz QPSK HCH 822.5MHz RB 15 0 NTV

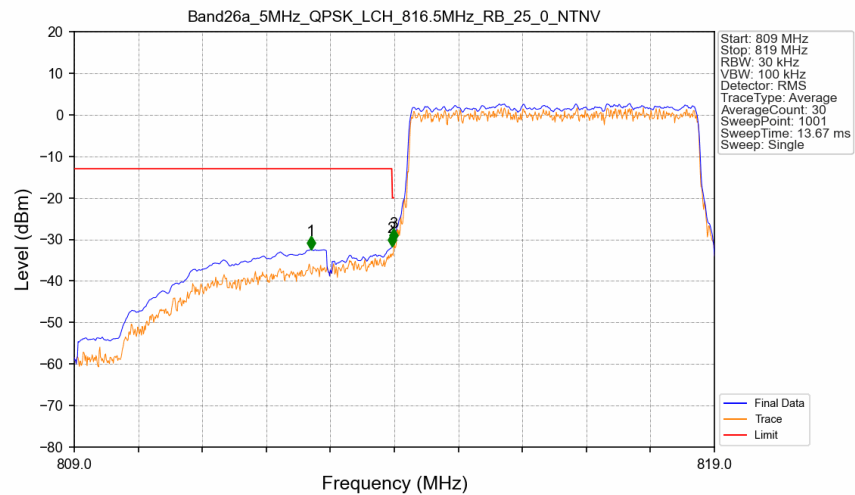


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.031	CHP	/	/	/	/	/
824	824.038	0.031	CHP	1	824.006	-30.35	-20	Pass
824.038	825	0.031	CHP	2	824.042	-33.10	-13	Pass
825	827	0.1	CHP	3	825.092	-32.98	-13	Pass

5.2.3 B26a_5MHz

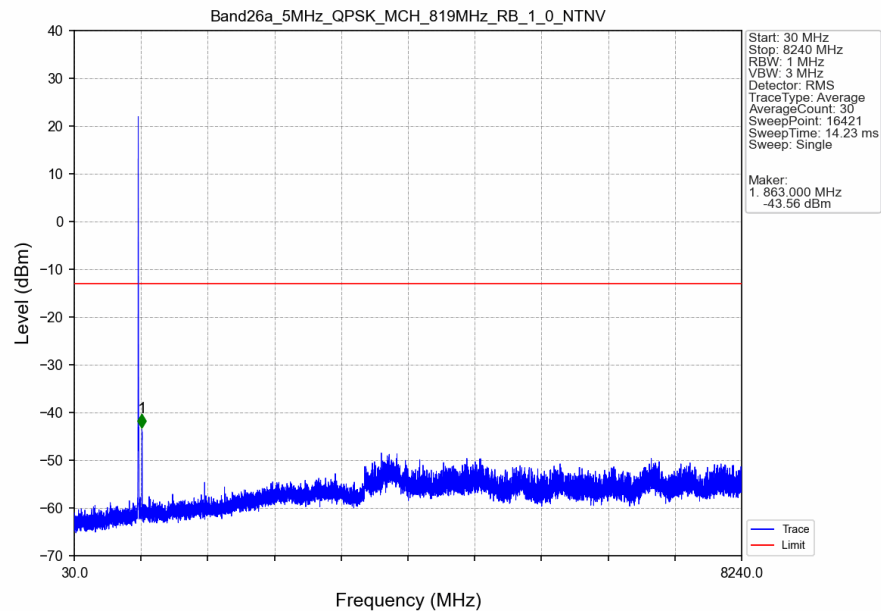


Band26a 5MHz QPSK LCH 816.5MHz RB 25 0 NTNV

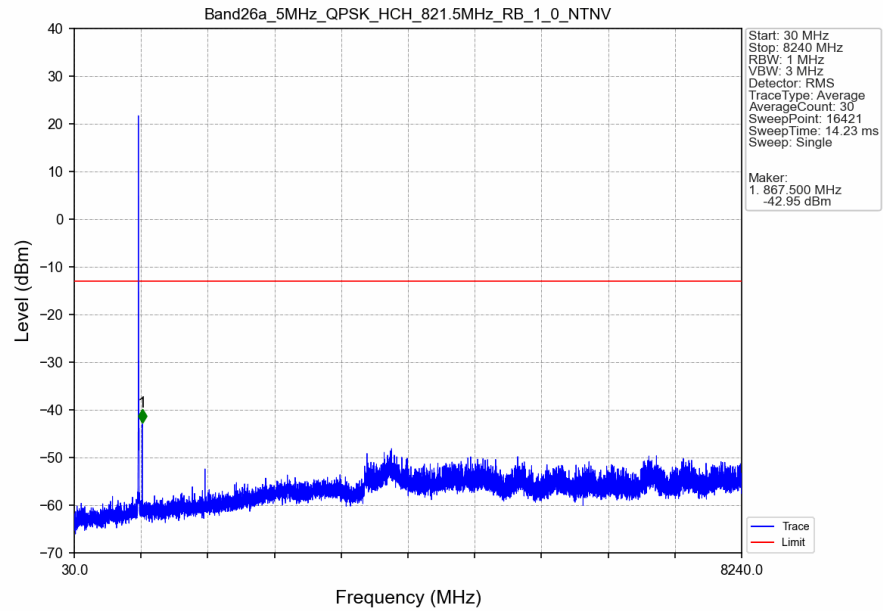


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.700	-32.45	-13	Pass
813	813.963	0.05	CHP	2	813.960	-31.73	-13	Pass
813.963	814	0.05	CHP	3	813.990	-30.62	-20	Pass
814	819	0.05	CHP	/	/	/	/	/

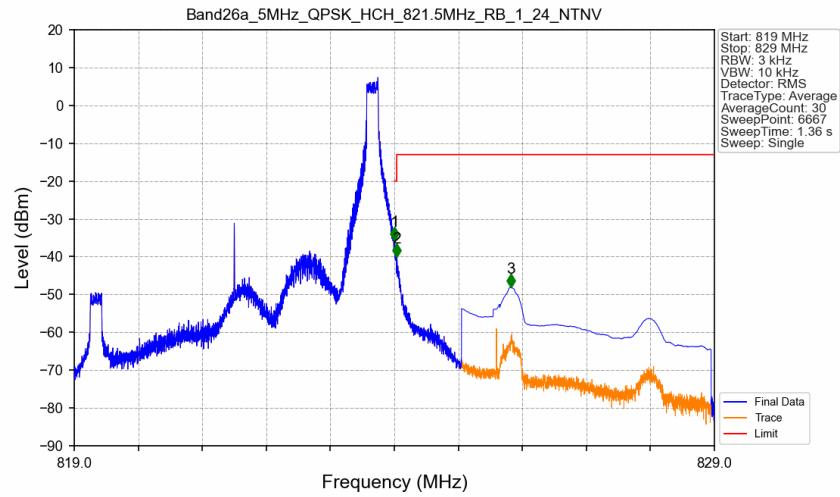
Band26a 5MHz QPSK MCH 819MHz RB 1 0 NTNV



Band26a 5MHz QPSK HCH 821.5MHz RB 1 0 NTV

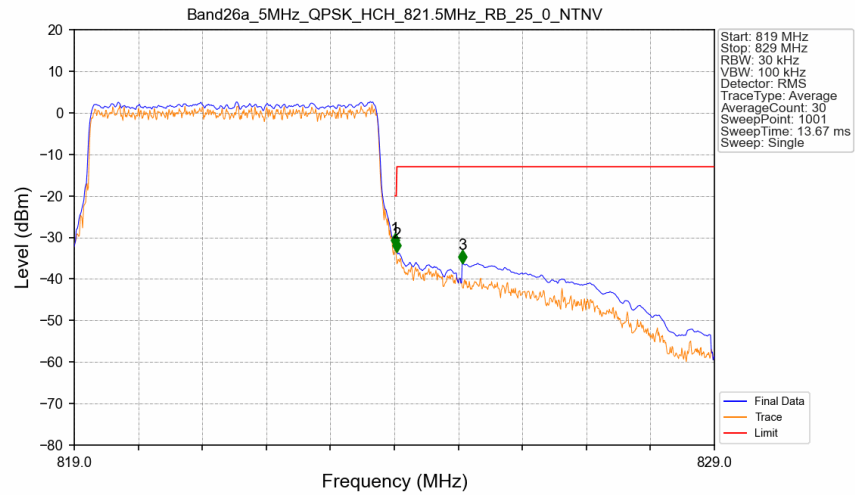


Band26a 5MHz QPSK HCH 821.5MHz RB 1 24 NTV



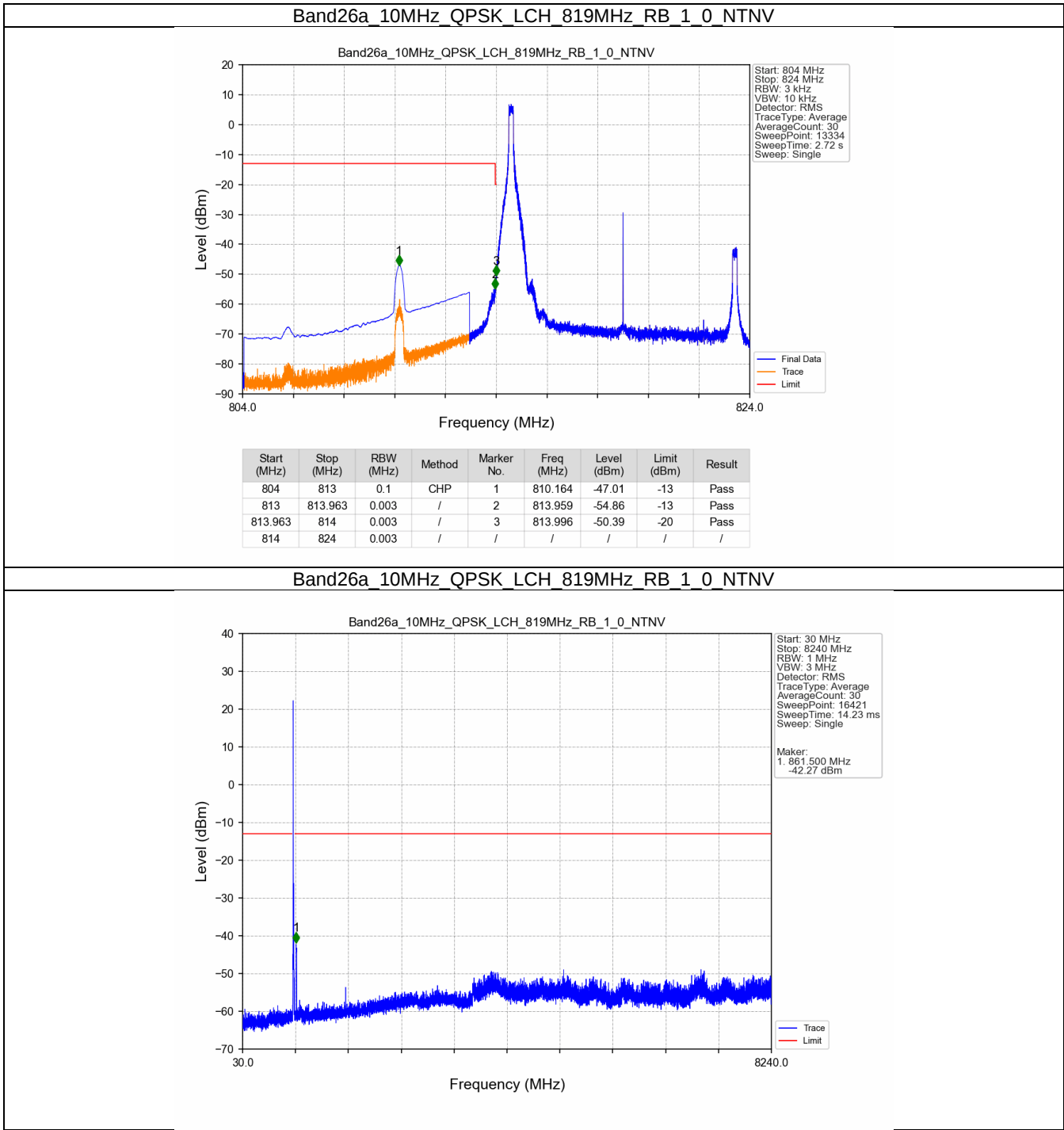
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.001	-35.70	-20	Pass
824.038	825	0.003	/	2	824.041	-40.05	-13	Pass
825	829	0.1	CHP	3	825.818	-48.14	-13	Pass

Band26a 5MHz QPSK HCH 821.5MHz RB 25 0 NTV

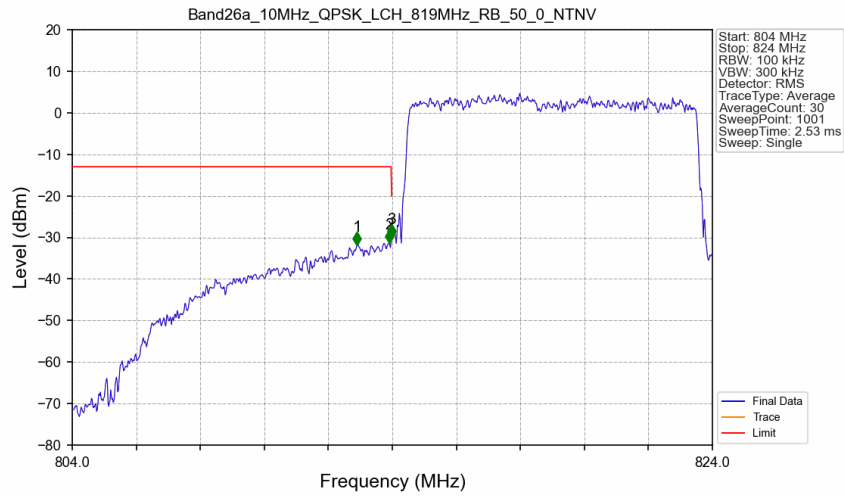


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.05	CHP	/	/	/	/	/
824	824.038	0.05	CHP	1	824.010	-32.20	-20	Pass
824.038	825	0.05	CHP	2	824.040	-33.48	-13	Pass
825	829	0.1	CHP	3	825.060	-36.22	-13	Pass

5.2.4 B26a_10MHz

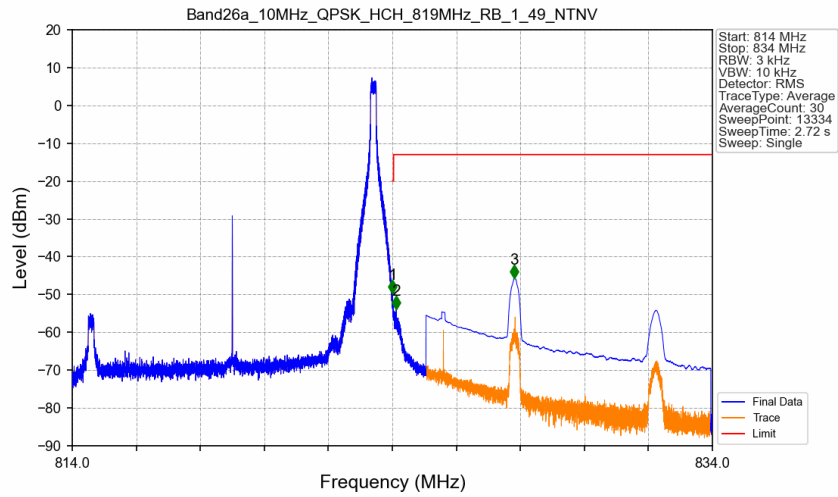


Band26a_10MHz_QPSK_LCH_819MHz_RB_50_0_NTNV



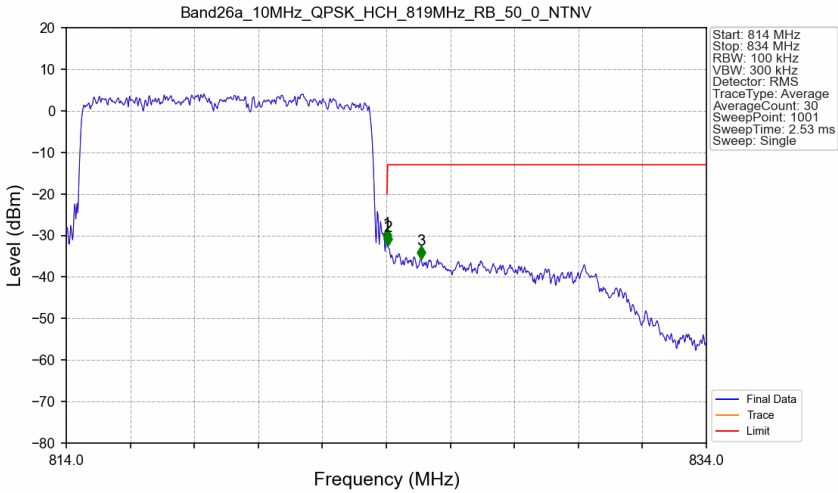
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
804	813	0.1	/	1	812.900	-31.94	-13	Pass
813	813.963	0.1	/	2	813.900	-31.28	-13	Pass
813.963	814	0.1	/	3	813.980	-30.00	-20	Pass
814	824	0.1	/	/	/	/	/	/

Band26a_10MHz_QPSK_HCH_819MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.002	-49.61	-20	Pass
824.038	825	0.003	/	2	824.122	-53.89	-13	Pass
825	834	0.1	CHP	3	827.806	-45.75	-13	Pass

Band26a 10MHz QPSK HCH 819MHz RB 50 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	/	/	/	/	/	/
824	824.038	0.1	/	1	824.020	-31.56	-20	Pass
824.038	825	0.1	/	2	824.040	-32.47	-13	Pass
825	834	0.1	/	3	825.080	-35.63	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 26a(814-824MHz)-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0				
Frequency	Spurious Emission Level		Limit	Margin
(MHz)	Polaxis	(dBm)	(dBm)	(dB)
1628.5	H	-60.9	-13	47.9
2442.75	H	-58.99	-13	45.99
3257	H	-55.53	-13	42.53
1628.5	V	-61.12	-13	48.12
2442.75	V	-59.17	-13	46.17
3257	V	-56.08	-13	43.08

LTE Band 26a(814-824MHz)-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0				
Frequency	Spurious Emission Level		Limit	Margin
(MHz)	Polaxis	(dBm)	(dBm)	(dB)
1633.5	H	-63.12	-13	50.12
2450.25	H	-60.6	-13	47.6
3267	H	-57.26	-13	44.26
1633.5	V	-62.57	-13	49.57
2450.25	V	-59.83	-13	46.83
3267	V	-57.51	-13	44.51

LTE Band 26a(814-824MHz)-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0				
Frequency	Spurious Emission Level		Limit	Margin
(MHz)	Polaxis	(dBm)	(dBm)	(dB)
1638.5	H	-61.69	-13	48.69
2457.75	H	-60.45	-13	47.45
3277	H	-57.24	-13	44.24
1638.5	V	-63	-13	50.0
2457.75	V	-60.15	-13	47.15
3277	V	-57.94	-13	44.94