

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B26a_1.4MHz_ERP

Band: 26a / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	814.7	1	0	22.14	<=50	Pass
			2	22.05	<=50	Pass
			5	22.09	<=50	Pass
		3	0	22.37	<=50	Pass
			2	22.13	<=50	Pass
			3	22.11	<=50	Pass
		6	0	21.13	<=50	Pass
	819	1	0	22.39	<=50	Pass
			2	22.17	<=50	Pass
			5	22.17	<=50	Pass
		3	0	22.26	<=50	Pass
			2	22.28	<=50	Pass
			3	22.23	<=50	Pass
		6	0	21.19	<=50	Pass
	823.3	1	0	22.25	<=50	Pass
			2	22.09	<=50	Pass
			5	22.18	<=50	Pass
		3	0	22.34	<=50	Pass
			2	22.15	<=50	Pass
			3	22.25	<=50	Pass
		6	0	21.18	<=50	Pass
16QAM	814.7	1	0	21.08	<=50	Pass
			2	21.15	<=50	Pass
			5	21.26	<=50	Pass
		3	0	21.26	<=50	Pass
			2	21.20	<=50	Pass
			3	21.27	<=50	Pass
		6	0	20.21	<=50	Pass
	819	1	0	21.31	<=50	Pass
			2	21.41	<=50	Pass
			5	21.26	<=50	Pass
		3	0	21.23	<=50	Pass
			2	21.24	<=50	Pass
			3	21.40	<=50	Pass
		6	0	20.17	<=50	Pass
	823.3	1	0	21.24	<=50	Pass
			2	21.27	<=50	Pass
			5	21.17	<=50	Pass
		3	0	21.23	<=50	Pass
			2	21.44	<=50	Pass
			3	21.26	<=50	Pass
		6	0	20.18	<=50	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	22.17	<=50	Pass
			7	22.29	<=50	Pass
			14	22.19	<=50	Pass
		8	0	21.20	<=50	Pass
			4	21.27	<=50	Pass
			7	21.13	<=50	Pass
		15	0	21.30	<=50	Pass
	819	1	0	22.19	<=50	Pass
			7	22.28	<=50	Pass
			14	22.18	<=50	Pass
		8	0	21.22	<=50	Pass
			4	21.26	<=50	Pass
			7	21.16	<=50	Pass
		15	0	21.28	<=50	Pass
	822.5	1	0	22.20	<=50	Pass
			7	22.33	<=50	Pass
			14	22.16	<=50	Pass
		8	0	21.22	<=50	Pass
			4	21.29	<=50	Pass
			7	21.22	<=50	Pass
		15	0	21.23	<=50	Pass
16QAM	815.5	1	0	21.74	<=50	Pass
			7	21.32	<=50	Pass
			14	21.30	<=50	Pass
		8	0	20.35	<=50	Pass
			4	20.31	<=50	Pass
			7	20.10	<=50	Pass
		15	0	20.35	<=50	Pass
	819	1	0	21.27	<=50	Pass
			7	21.31	<=50	Pass
			14	21.70	<=50	Pass
		8	0	20.30	<=50	Pass
			4	20.26	<=50	Pass
			7	20.18	<=50	Pass
		15	0	20.28	<=50	Pass
	822.5	1	0	21.34	<=50	Pass
			7	21.81	<=50	Pass
			14	21.76	<=50	Pass
		8	0	20.29	<=50	Pass
			4	20.30	<=50	Pass
			7	20.39	<=50	Pass
		15	0	20.26	<=50	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	22.27	<=50	Pass
			13	22.15	<=50	Pass
			24	22.18	<=50	Pass
		12	0	21.29	<=50	Pass
			6	21.16	<=50	Pass
			13	21.17	<=50	Pass
		25	0	21.15	<=50	Pass
	819	1	0	22.20	<=50	Pass
			13	22.26	<=50	Pass
			24	22.19	<=50	Pass
		12	0	21.26	<=50	Pass
			6	21.23	<=50	Pass
			13	21.14	<=50	Pass
		25	0	21.21	<=50	Pass
	821.5	1	0	22.25	<=50	Pass
			13	22.20	<=50	Pass
			24	22.11	<=50	Pass
		12	0	21.16	<=50	Pass
			6	21.20	<=50	Pass
			13	21.21	<=50	Pass
		25	0	21.19	<=50	Pass
16QAM	816.5	1	0	21.43	<=50	Pass
			13	21.01	<=50	Pass
			24	21.38	<=50	Pass
		12	0	20.31	<=50	Pass
			6	20.18	<=50	Pass
			13	20.18	<=50	Pass
		25	0	20.12	<=50	Pass
	819	1	0	21.34	<=50	Pass
			13	21.51	<=50	Pass
			24	21.02	<=50	Pass
		12	0	20.14	<=50	Pass
			6	20.27	<=50	Pass
			13	20.14	<=50	Pass
		25	0	20.24	<=50	Pass
	821.5	1	0	21.12	<=50	Pass
			13	21.38	<=50	Pass
			24	21.42	<=50	Pass
		12	0	20.17	<=50	Pass
			6	20.19	<=50	Pass
			13	20.29	<=50	Pass
		25	0	20.22	<=50	Pass

1.1.4 B26a_10MHz_ERP

Band: 26a / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	819	1	0	22.36	<=50	Pass
			25	22.16	<=50	Pass
			49	22.41	<=50	Pass
		25	0	21.21	<=50	Pass
			13	21.28	<=50	Pass
			25	21.20	<=50	Pass
		50	0	21.33	<=50	Pass
16QAM	819	1	0	21.64	<=50	Pass
			25	21.80	<=50	Pass
			49	21.46	<=50	Pass
		25	0	20.24	<=50	Pass
			13	20.35	<=50	Pass
			25	20.32	<=50	Pass
		50	0	20.30	<=50	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	3.27	-0.135	-0.0002	-2.5 to 2.5	Pass
					3.85	0.923	0.0011	-2.5 to 2.5	Pass
					4.43	0.190	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.732	0.0009	-2.5 to 2.5	Pass
				-20	3.85	1.029	0.0013	-2.5 to 2.5	Pass
				-10	3.85	0.430	0.0005	-2.5 to 2.5	Pass
				0	3.85	-2.614	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-0.772	-0.0009	-2.5 to 2.5	Pass
				30	3.85	0.730	0.0009	-2.5 to 2.5	Pass
				40	3.85	-2.285	-0.0028	-2.5 to 2.5	Pass
				50	3.85	0.993	0.0012	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band26a_OBW

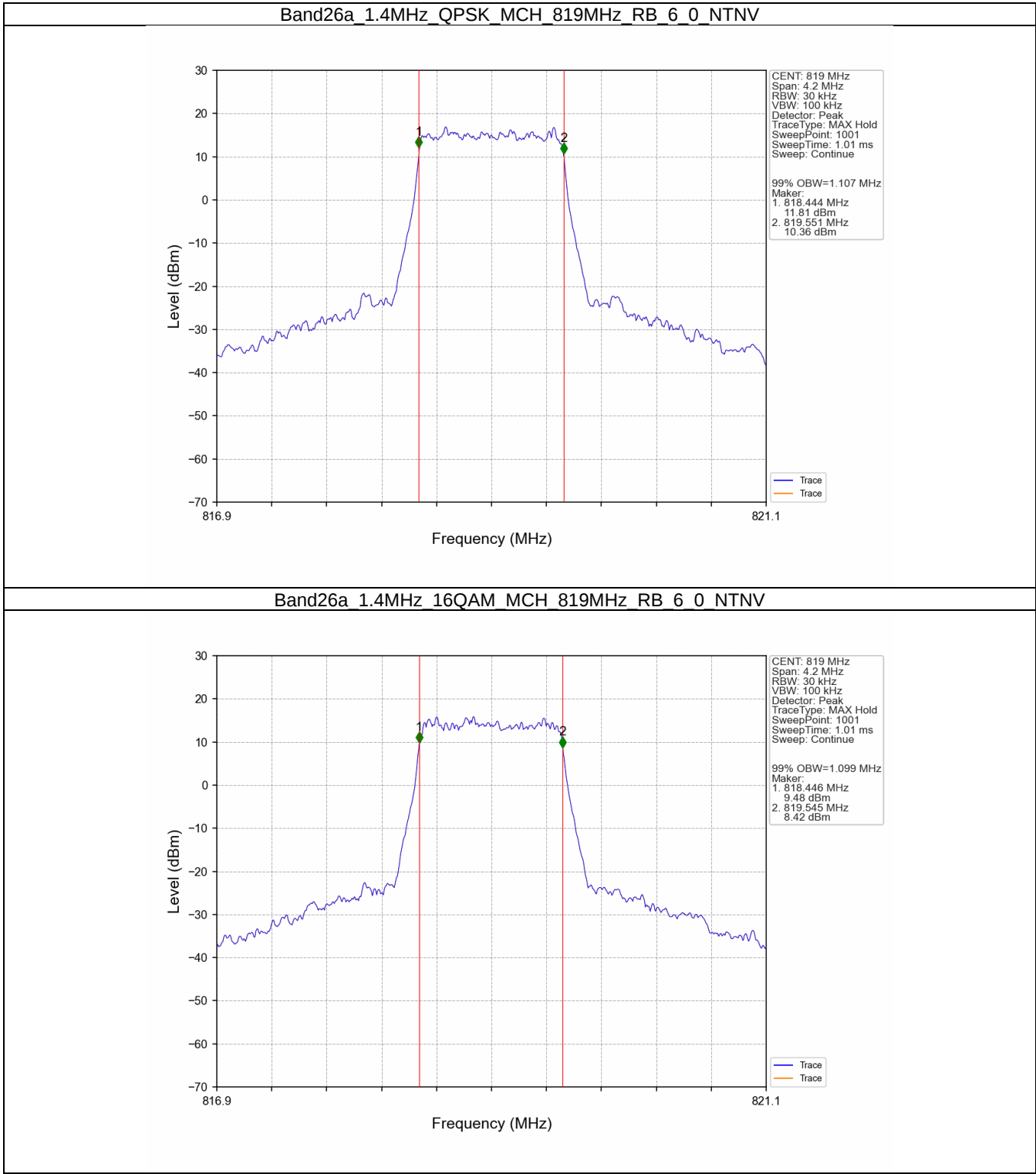
Band: 26a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	819	6	0	1.107	/	Pass
	16QAM	819	6	0	1.099	/	Pass
3	QPSK	819	15	0	2.749	/	Pass
	16QAM	819	15	0	2.739	/	Pass
5	QPSK	819	25	0	4.531	/	Pass
	16QAM	819	25	0	4.529	/	Pass
10	QPSK	819	50	0	8.995	/	Pass
	16QAM	819	50	0	8.995	/	Pass

3.1.2 Band26a_XDB

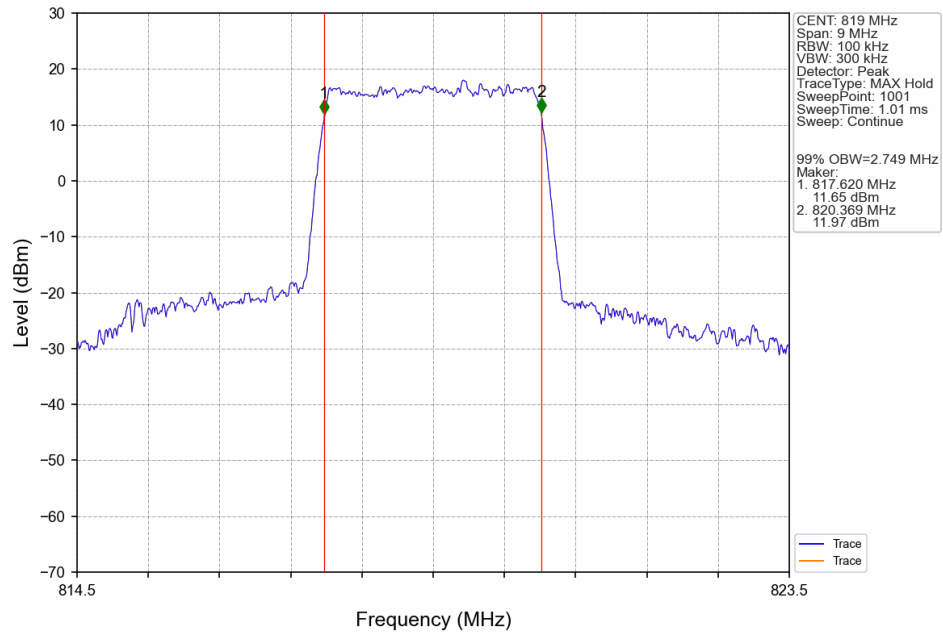
Band: 26a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	819	6	0	1.293	/	Pass
	16QAM	819	6	0	1.297	/	Pass
3	QPSK	819	15	0	3.059	/	Pass
	16QAM	819	15	0	3.064	/	Pass
5	QPSK	819	25	0	5.061	/	Pass
	16QAM	819	25	0	5.011	/	Pass
10	QPSK	819	50	0	9.833	/	Pass
	16QAM	819	50	0	9.851	/	Pass

3.2 Test Graph

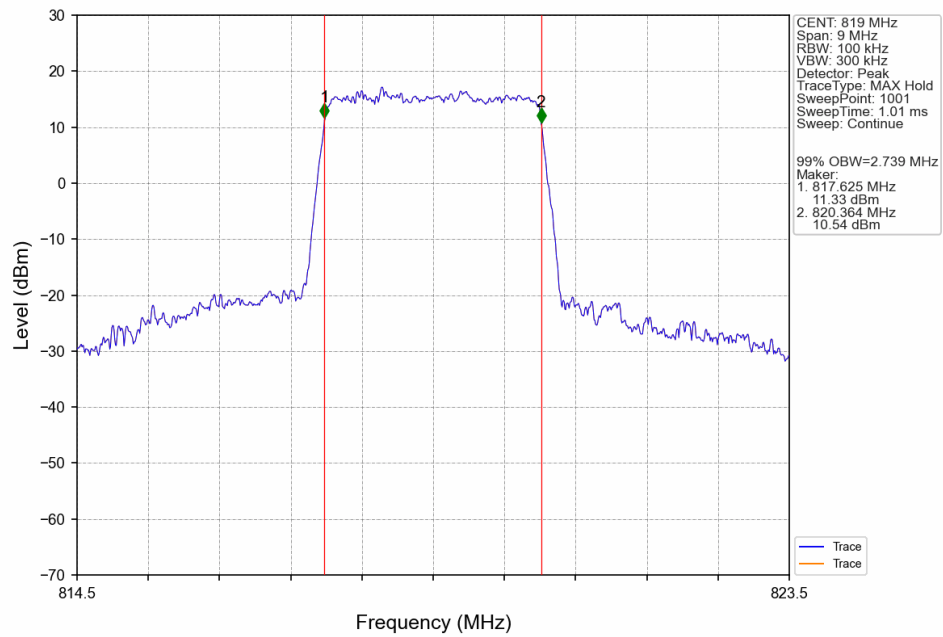
3.2.1 Band26a_OBW



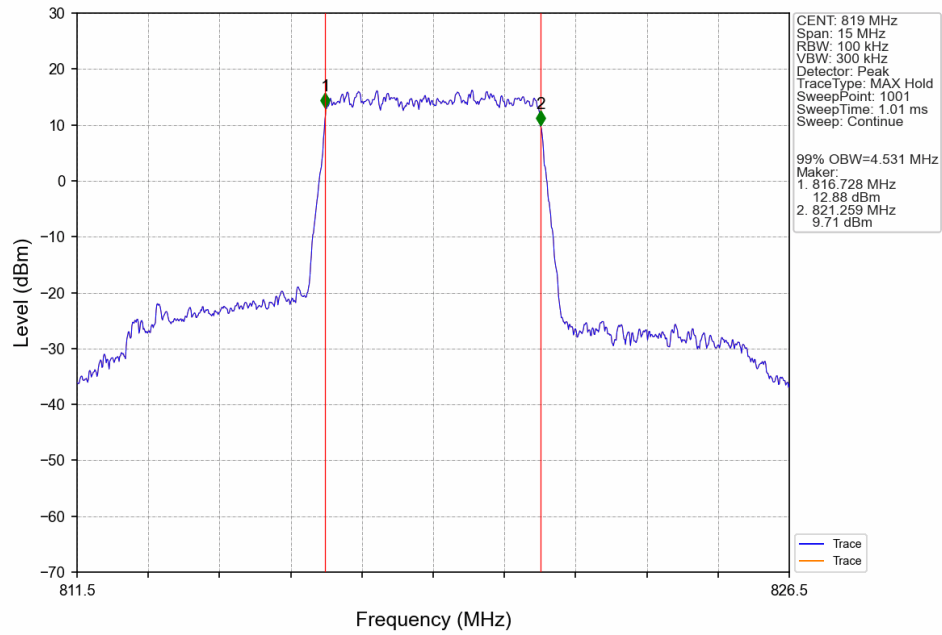
Band26a_3MHz_QPSK_MCH_819MHz_RB_15_0_NTNV



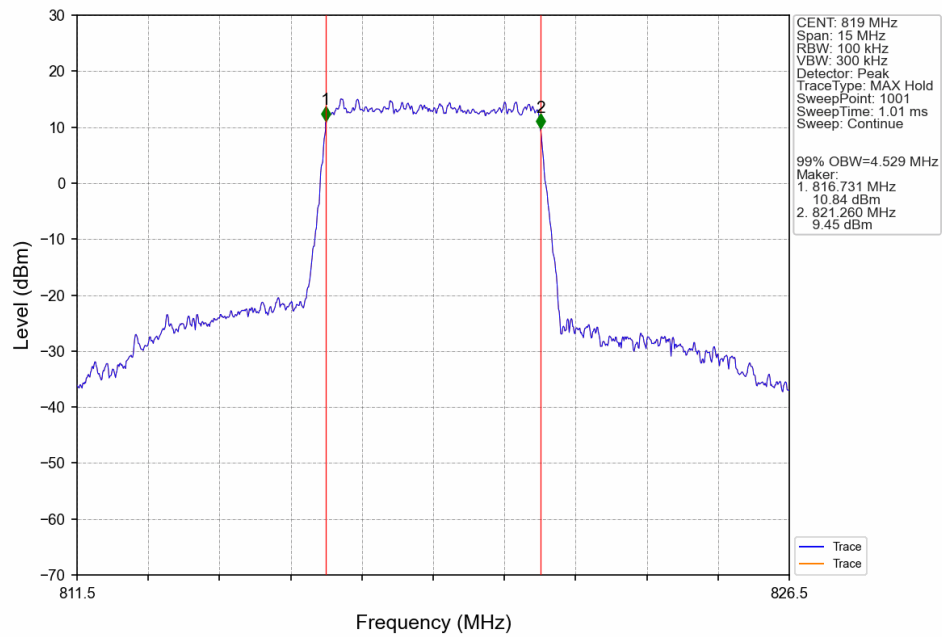
Band26a_3MHz_16QAM_MCH_819MHz_RB_15_0_NTNV



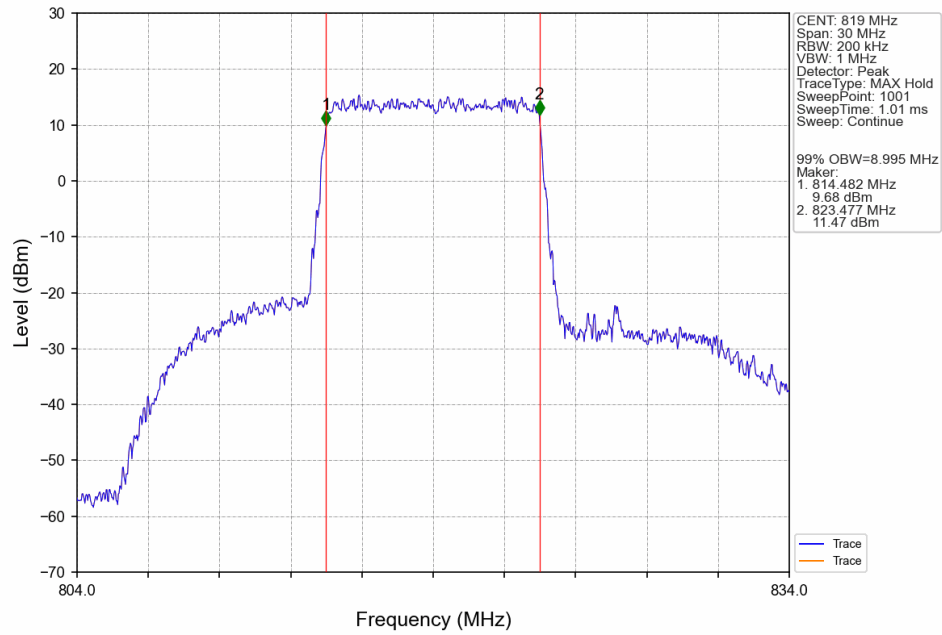
Band26a_5MHz_QPSK_MCH_819MHz_RB_25_0_NTNV



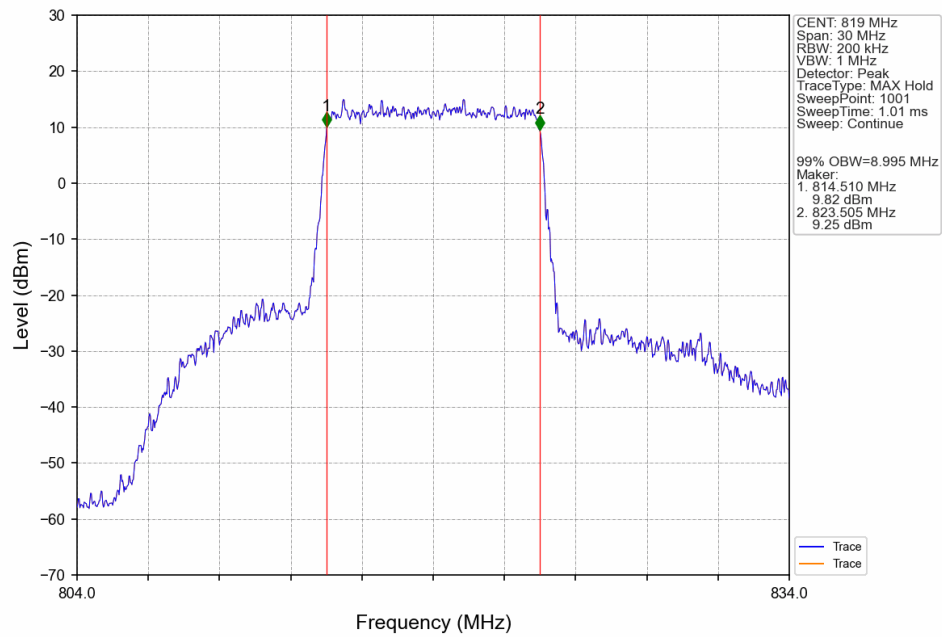
Band26a_5MHz_16QAM_MCH_819MHz_RB_25_0_NTNV



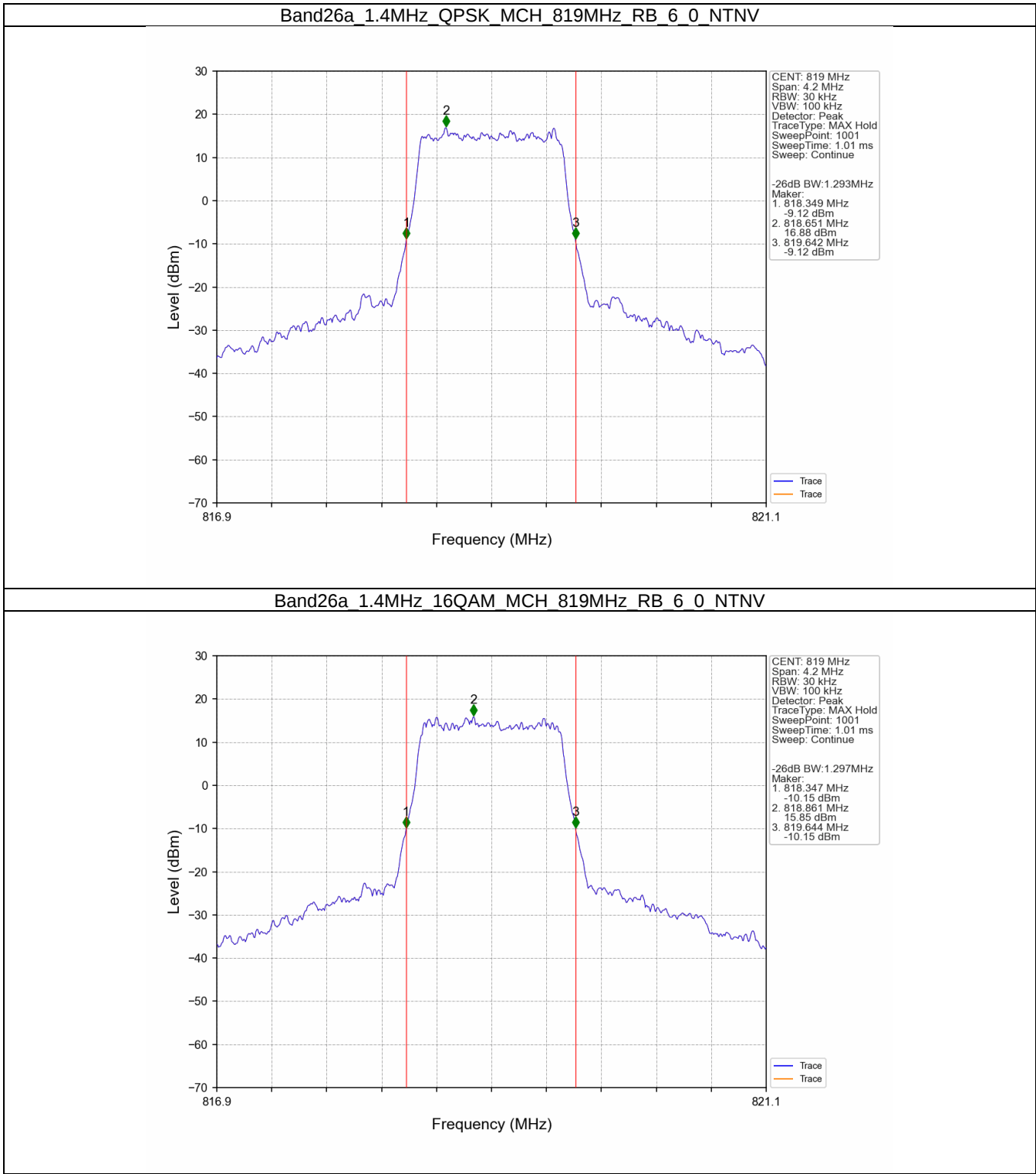
Band26a_10MHz_QPSK_MCH_819MHz_RB_50_0_NTNV



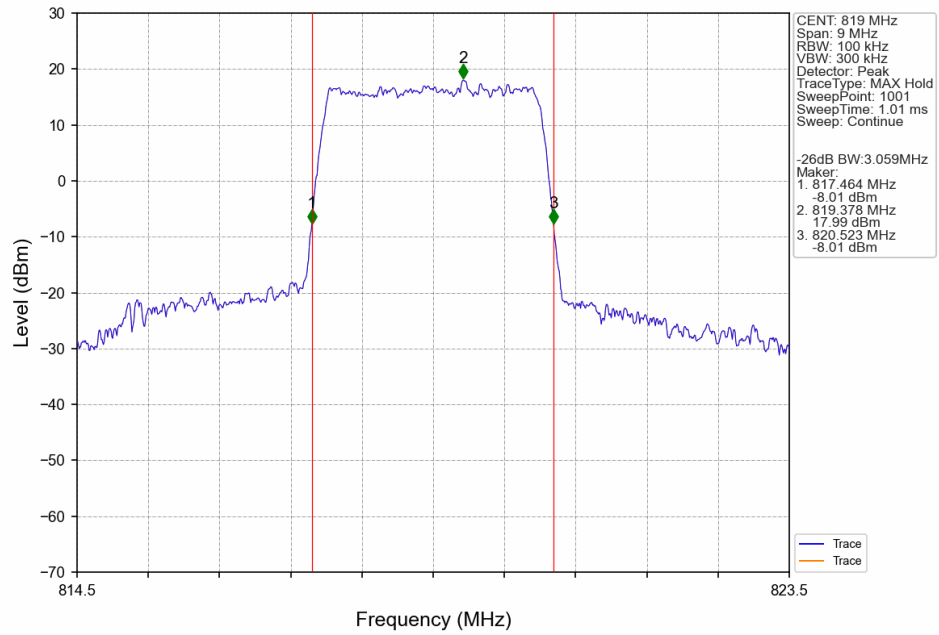
Band26a_10MHz_16QAM_MCH_819MHz_RB_50_0_NTNV



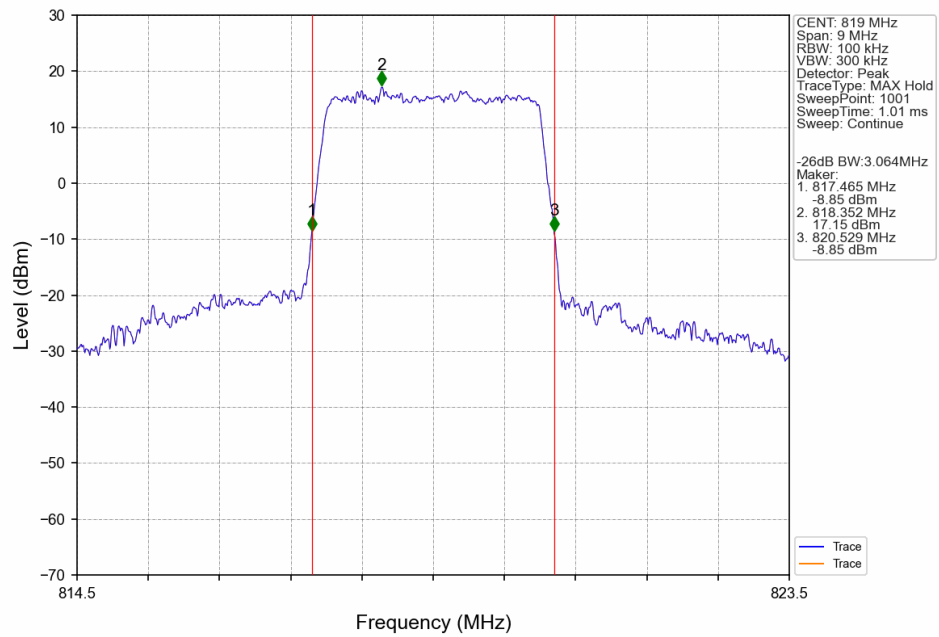
3.2.2 Band26a_XDB



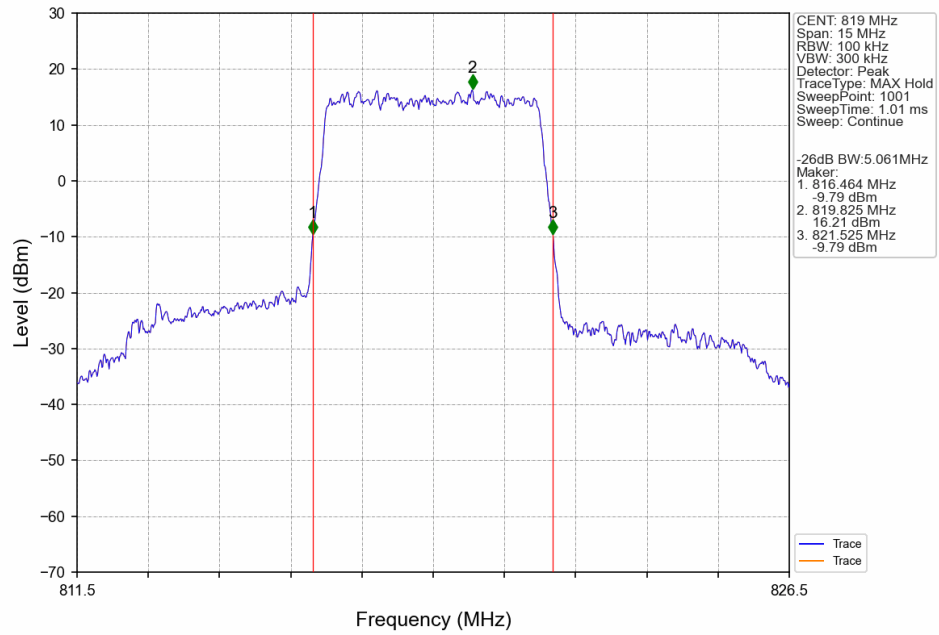
Band26a_3MHz_QPSK_MCH_819MHz_RB_15_0_NTNV



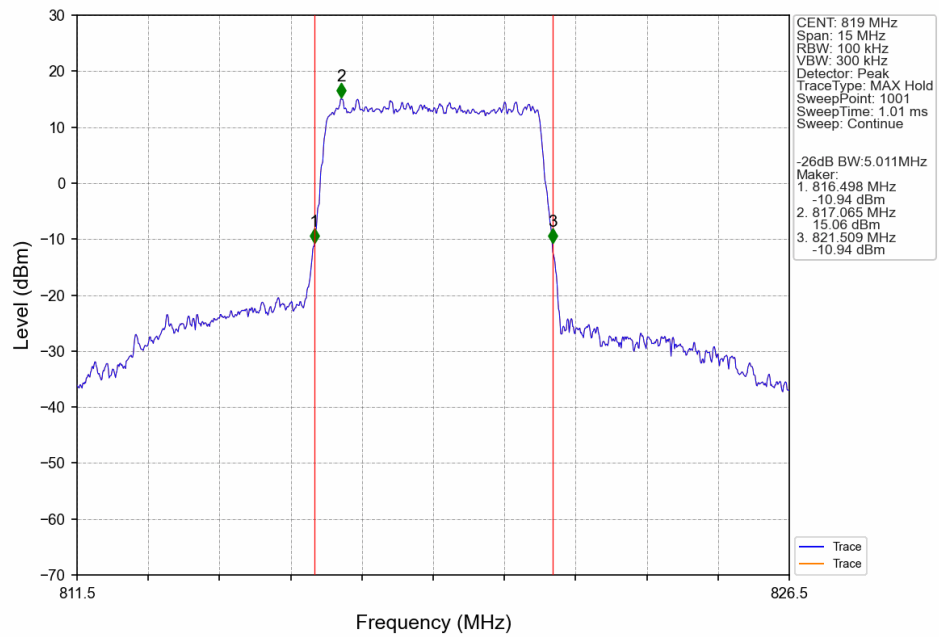
Band26a_3MHz_16QAM_MCH_819MHz_RB_15_0_NTNV



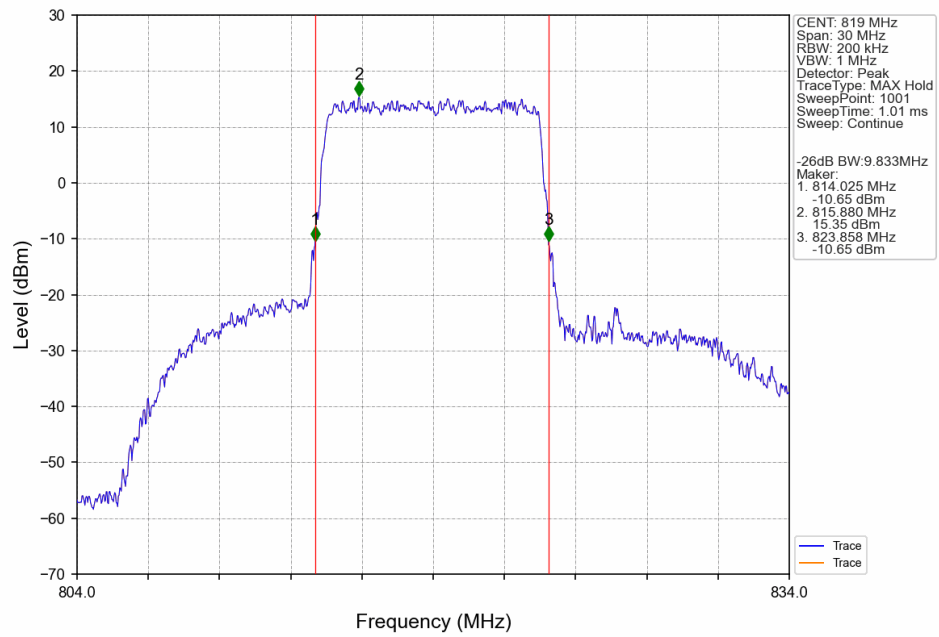
Band26a_5MHz_QPSK_MCH_819MHz_RB_25_0_NTNV



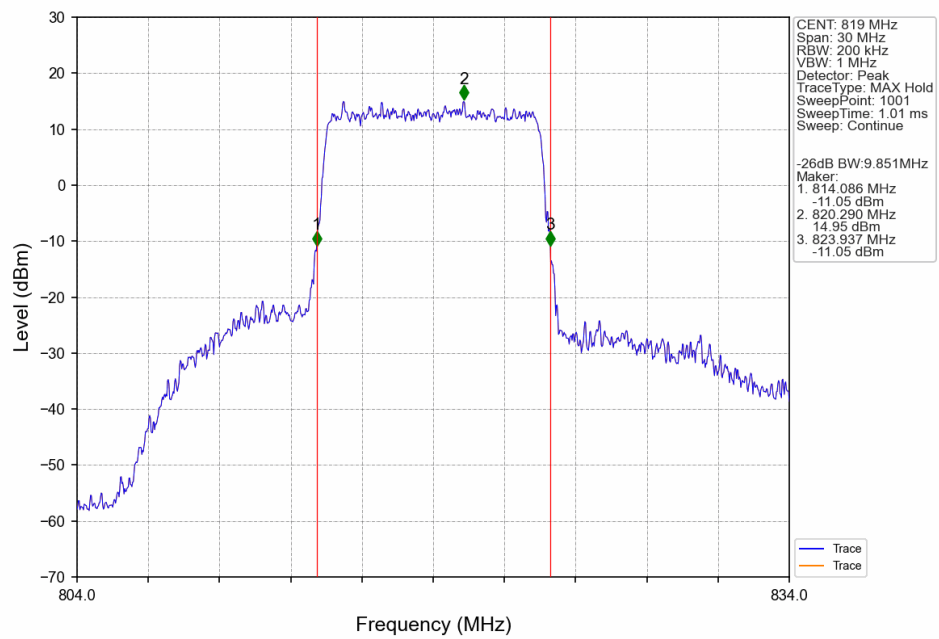
Band26a_5MHz_16QAM_MCH_819MHz_RB_25_0_NTNV



Band26a_10MHz_QPSK_MCH_819MHz_RB_50_0_NTNV



Band26a_10MHz_16QAM_MCH_819MHz_RB_50_0_NTNV



4. Peak-Average Ratio

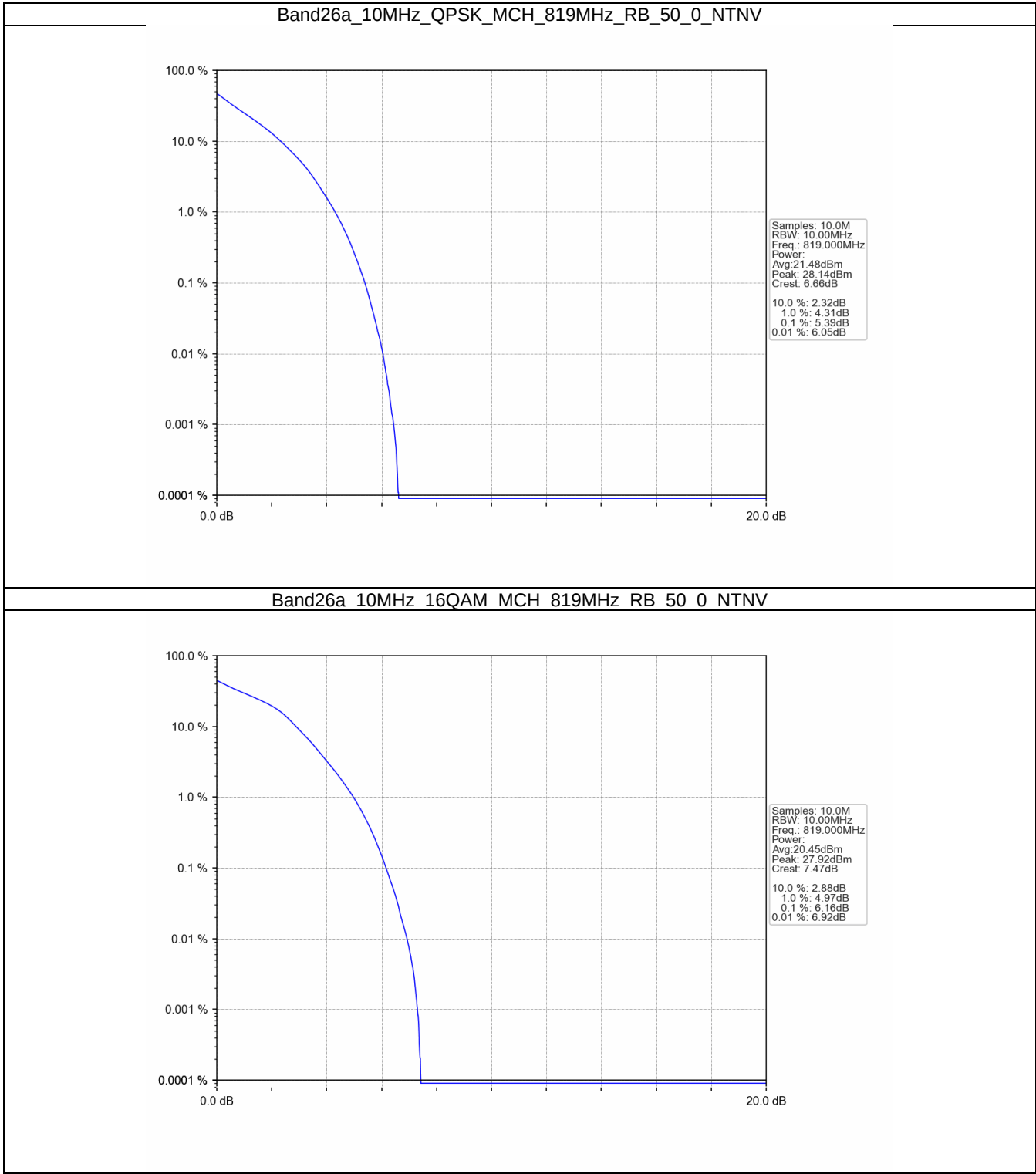
4.1 Test Result

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	5.39	<=13	Pass
16QAM	819	50	0	6.16	<=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

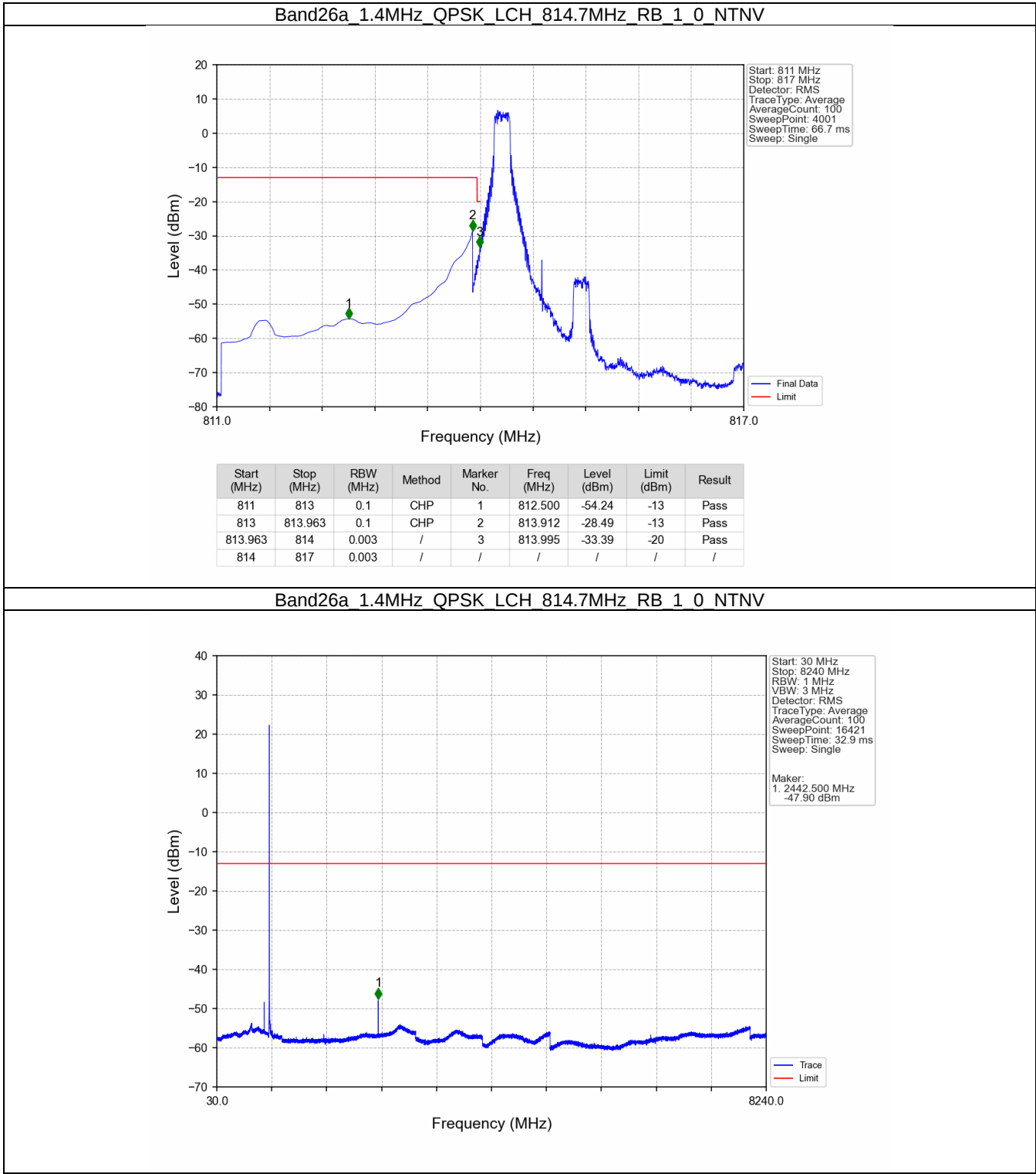
Band: 26a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	816.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	819	1	0	Refer To Test Graph		Pass
	821.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.4 B26a_10MHz

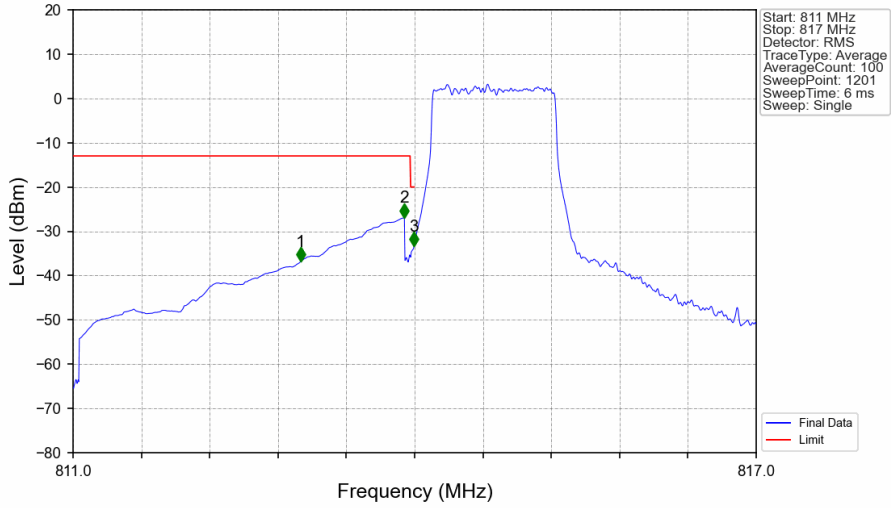
Band: 26a / Bandwidth: 10MHz / NTN/V						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	819	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	819	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 B26a_1.4MHz

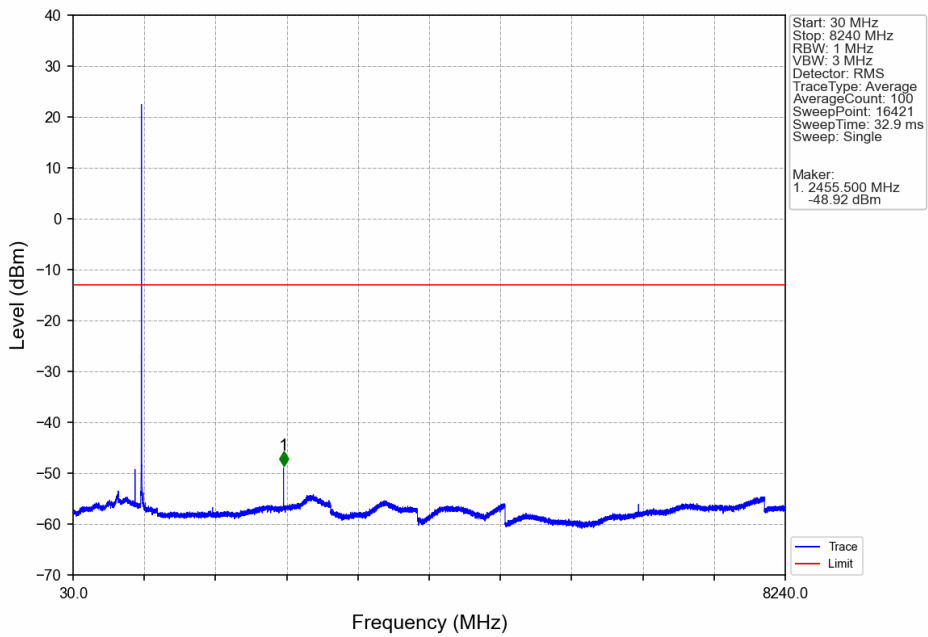


Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_6_0_NTNV

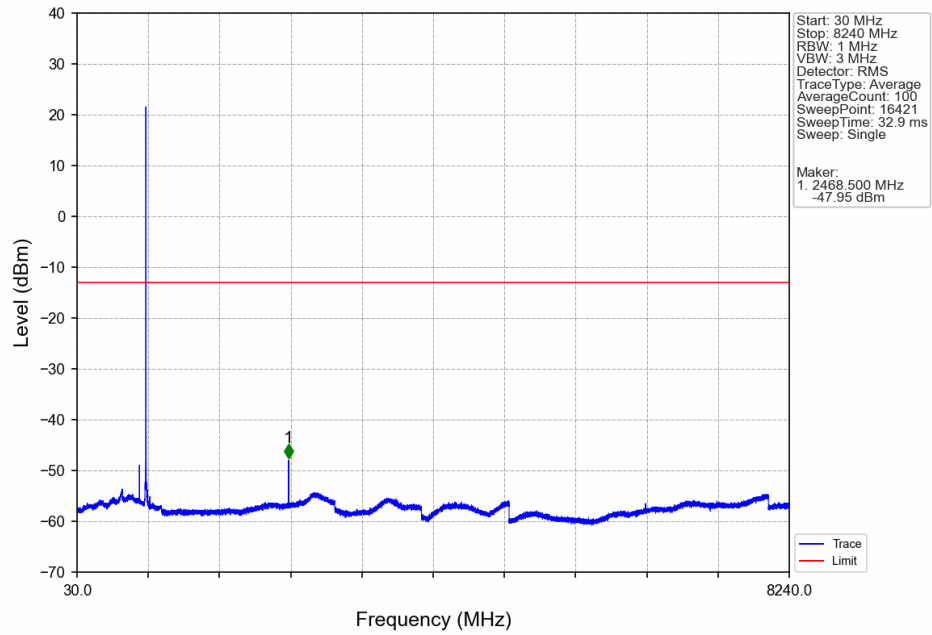


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	813.000	-36.82	-13	Pass
813	813.963	0.1	CHP	2	813.910	-26.85	-13	Pass
813.963	814	0.013	CHP	3	813.995	-33.33	-20	Pass
814	817	0.013	CHP	/	/	/	/	/

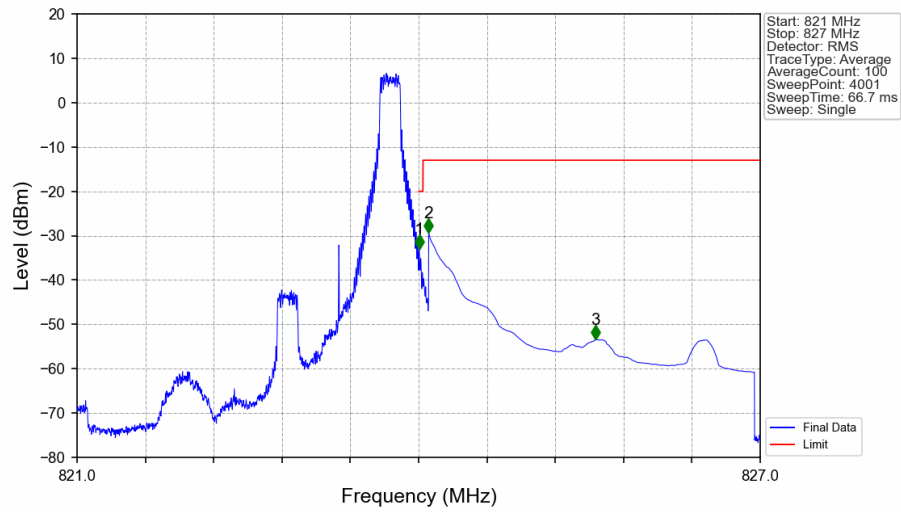
Band26a_1.4MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_1_0_NTNV

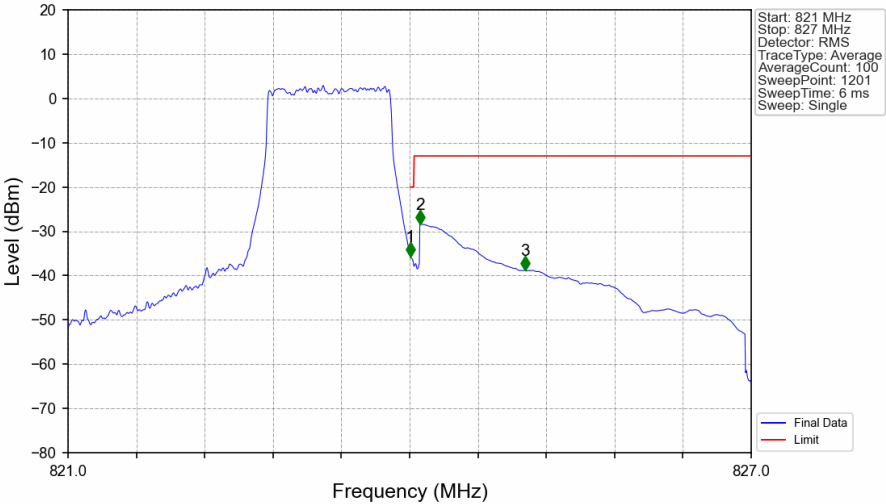


Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_1_5_NTNV



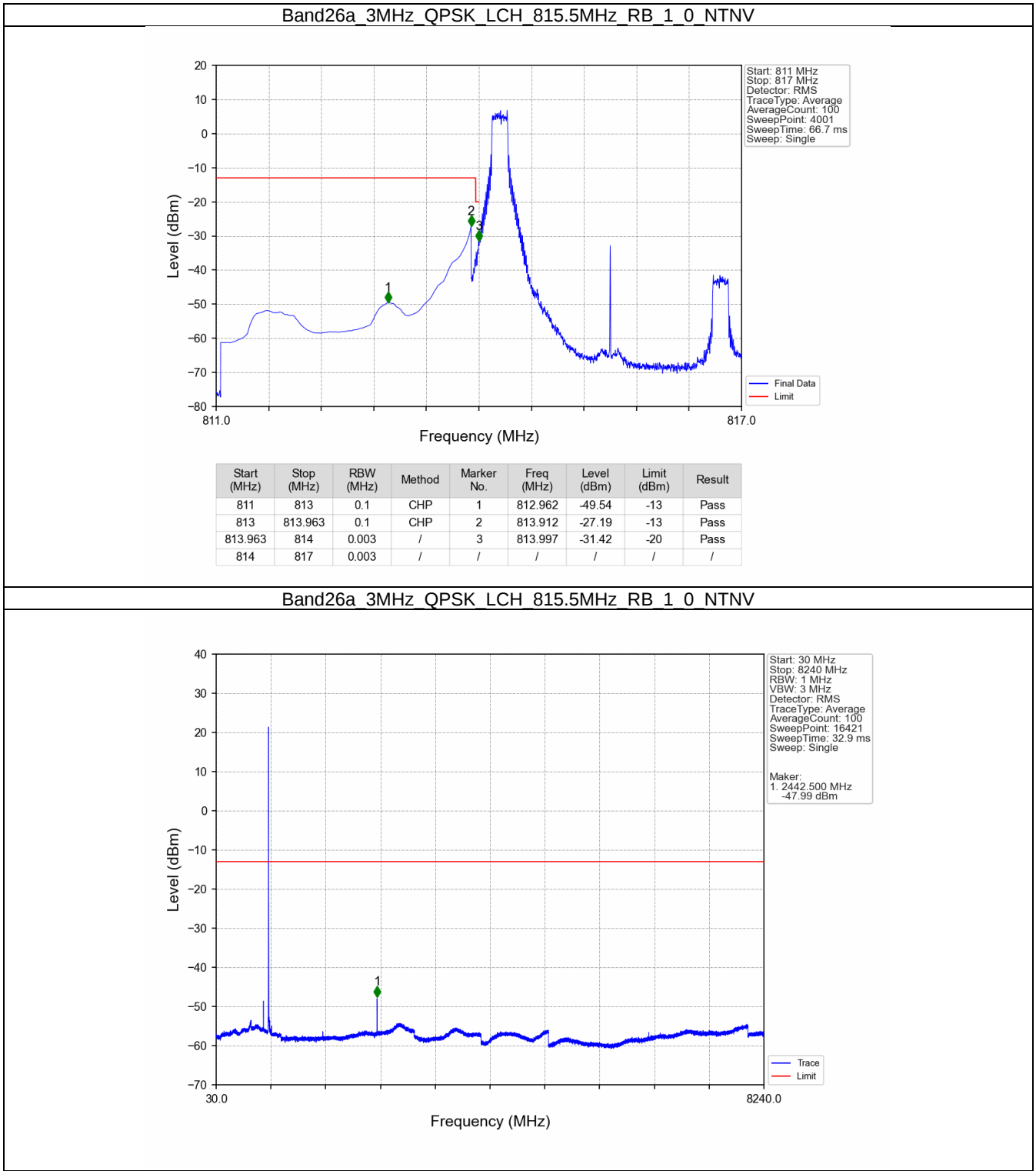
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.005	-33.03	-20	Pass
824.038	825	0.1	CHP	2	824.088	-29.39	-13	Pass
825	827	0.1	CHP	3	825.551	-53.40	-13	Pass

Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_6_0_NTNV

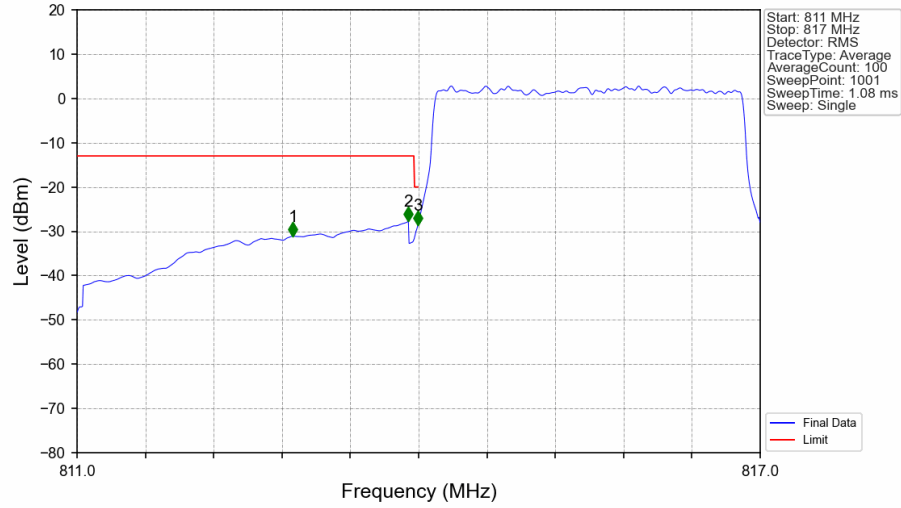


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.013	CHP	/	/	/	/	/
824	824.038	0.013	CHP	1	824.005	-35.74	-20	Pass
824.038	825	0.1	CHP	2	824.090	-28.32	-13	Pass
825	827	0.1	CHP	3	825.015	-38.82	-13	Pass

5.2.2 B26a_3MHz

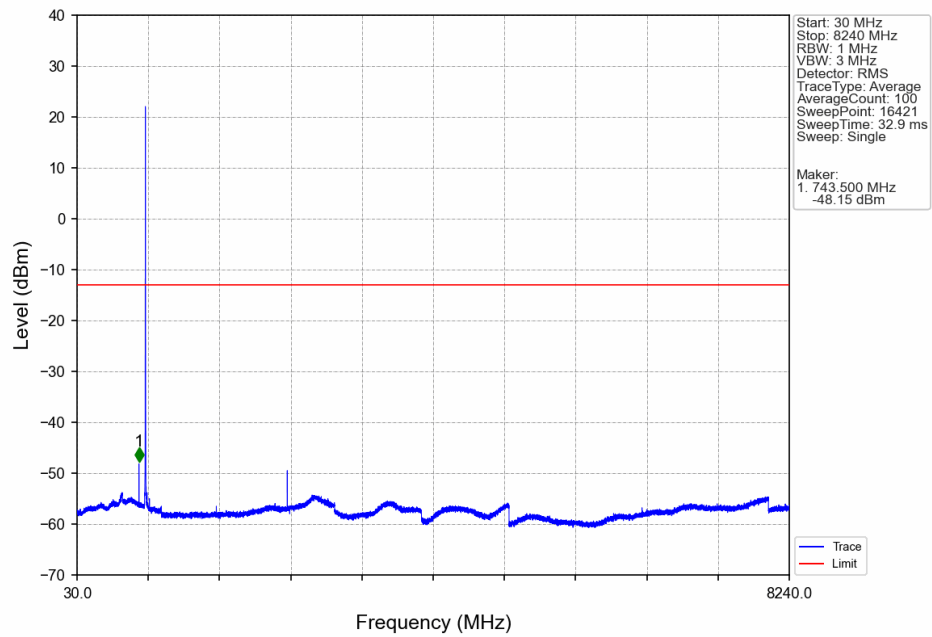


Band26a_3MHz_QPSK_LCH_815.5MHz_RB_15_0_NTNV

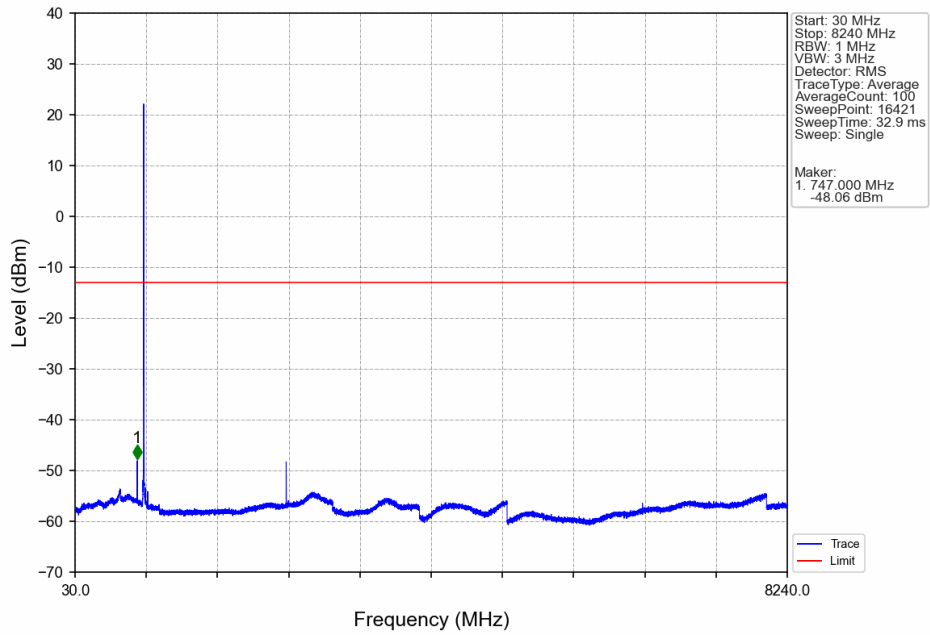


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	812.896	-31.10	-13	Pass
813	813.963	0.1	CHP	2	813.910	-27.74	-13	Pass
813.963	814	0.031	CHP	3	813.994	-28.59	-20	Pass
814	817	0.031	CHP	/	/	/	/	/

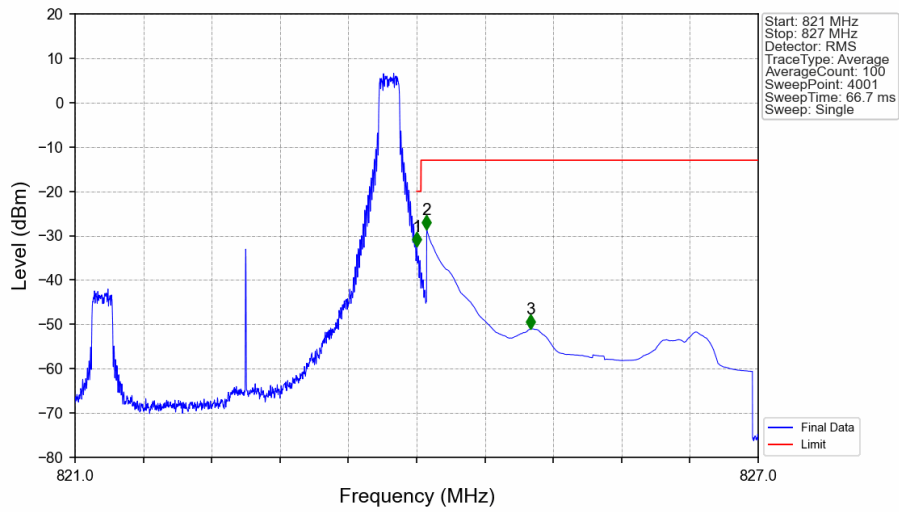
Band26a_3MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



Band26a_3MHz_QPSK_HCH_822.5MHz_RB_1_0_NTNV

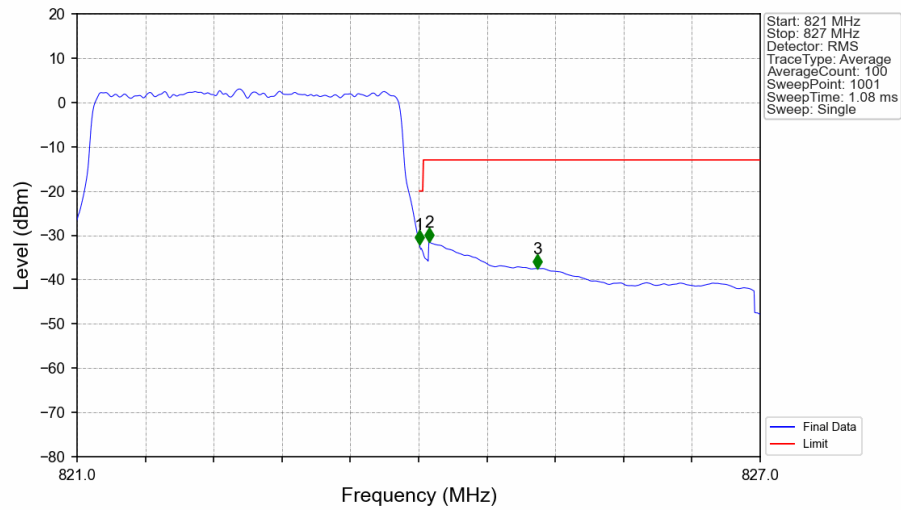


Band26a_3MHz_QPSK_HCH_822.5MHz_RB_1_14_NTNV



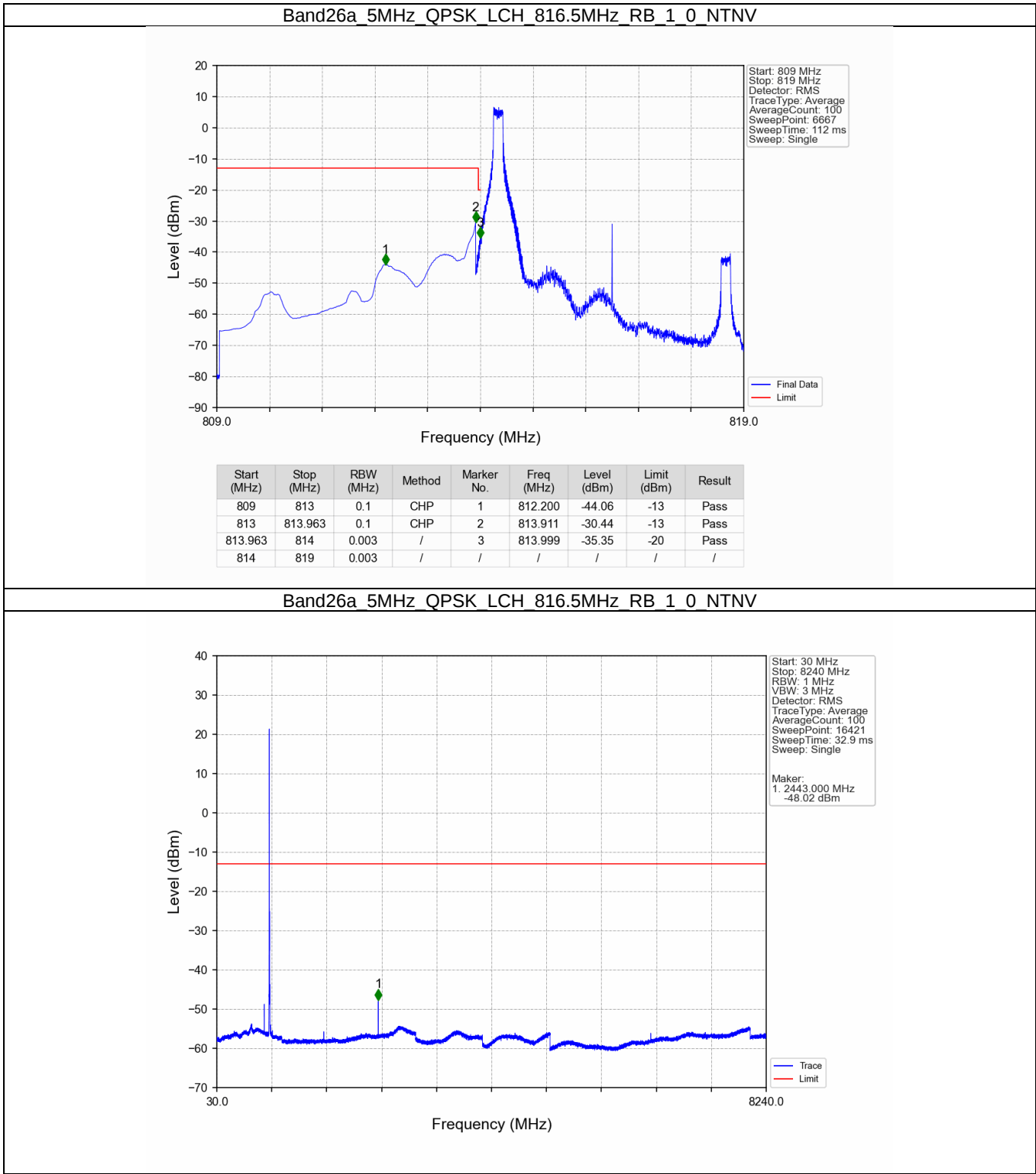
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.001	-32.36	-20	Pass
824.038	825	0.1	CHP	2	824.088	-28.50	-13	Pass
825	827	0.1	CHP	3	825.002	-50.98	-13	Pass

Band26a_3MHz_QPSK_HCH_822.5MHz_RB_15_0_NTNV

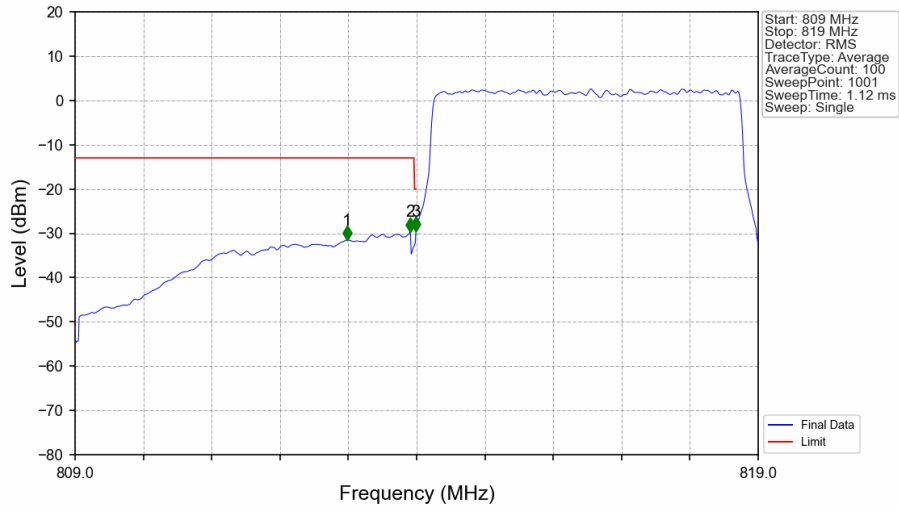


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.031	CHP	/	/	/	/	/
824	824.038	0.031	CHP	1	824.006	-32.01	-20	Pass
824.038	825	0.1	CHP	2	824.090	-31.41	-13	Pass
825	827	0.1	CHP	3	825.044	-37.50	-13	Pass

5.2.3 B26a_5MHz

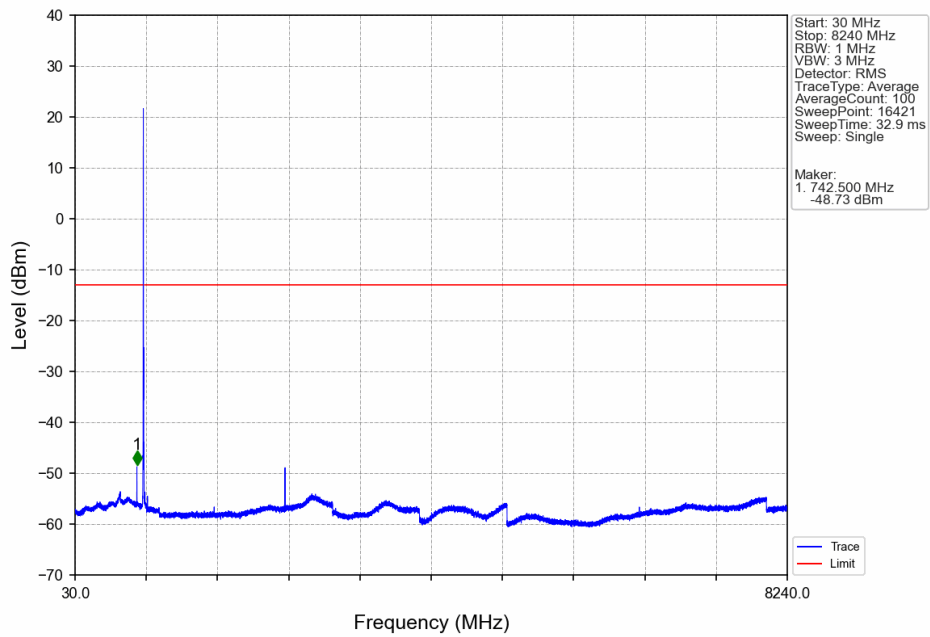


Band26a_5MHz_QPSK_LCH_816.5MHz_RB_25_0_NTNV

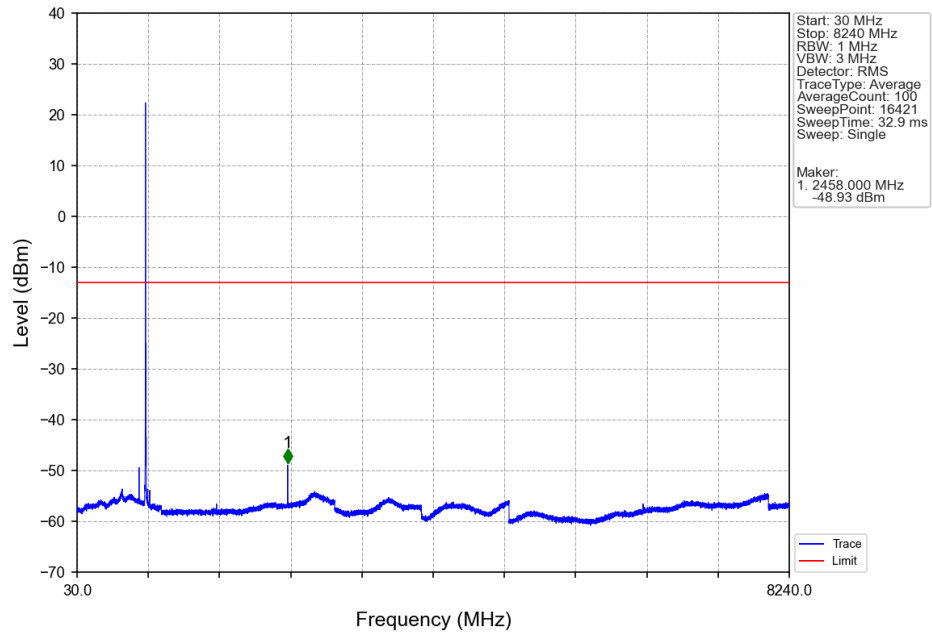


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.980	-31.55	-13	Pass
813	813.963	0.1	CHP	2	813.910	-29.58	-13	Pass
813.963	814	0.051	CHP	3	813.990	-29.50	-20	Pass
814	819	0.051	CHP	/	/	/	/	/

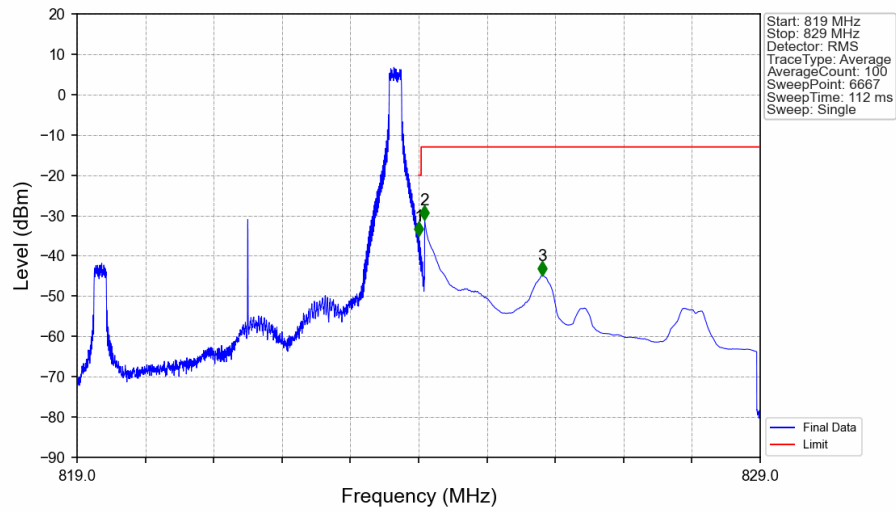
Band26a_5MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



Band26a_5MHz_QPSK_HCH_821.5MHz_RB_1_0_NTNV

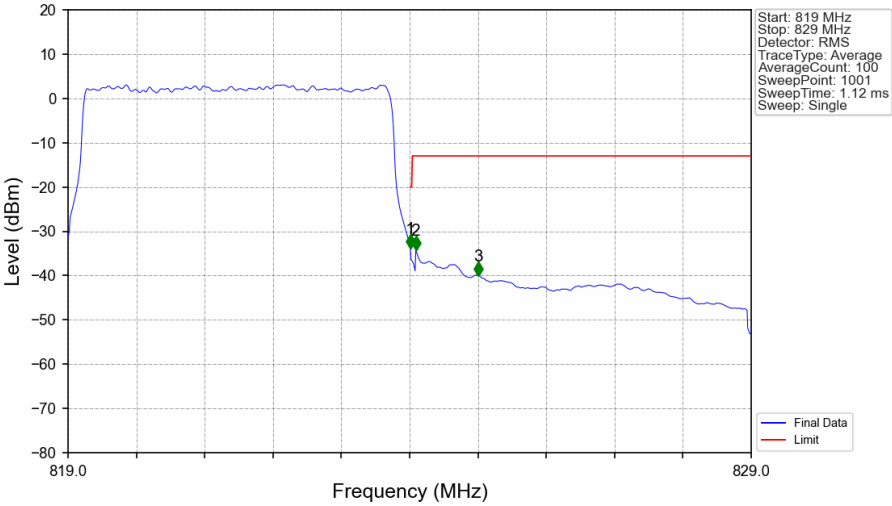


Band26a_5MHz_QPSK_HCH_821.5MHz_RB_1_24_NTNV



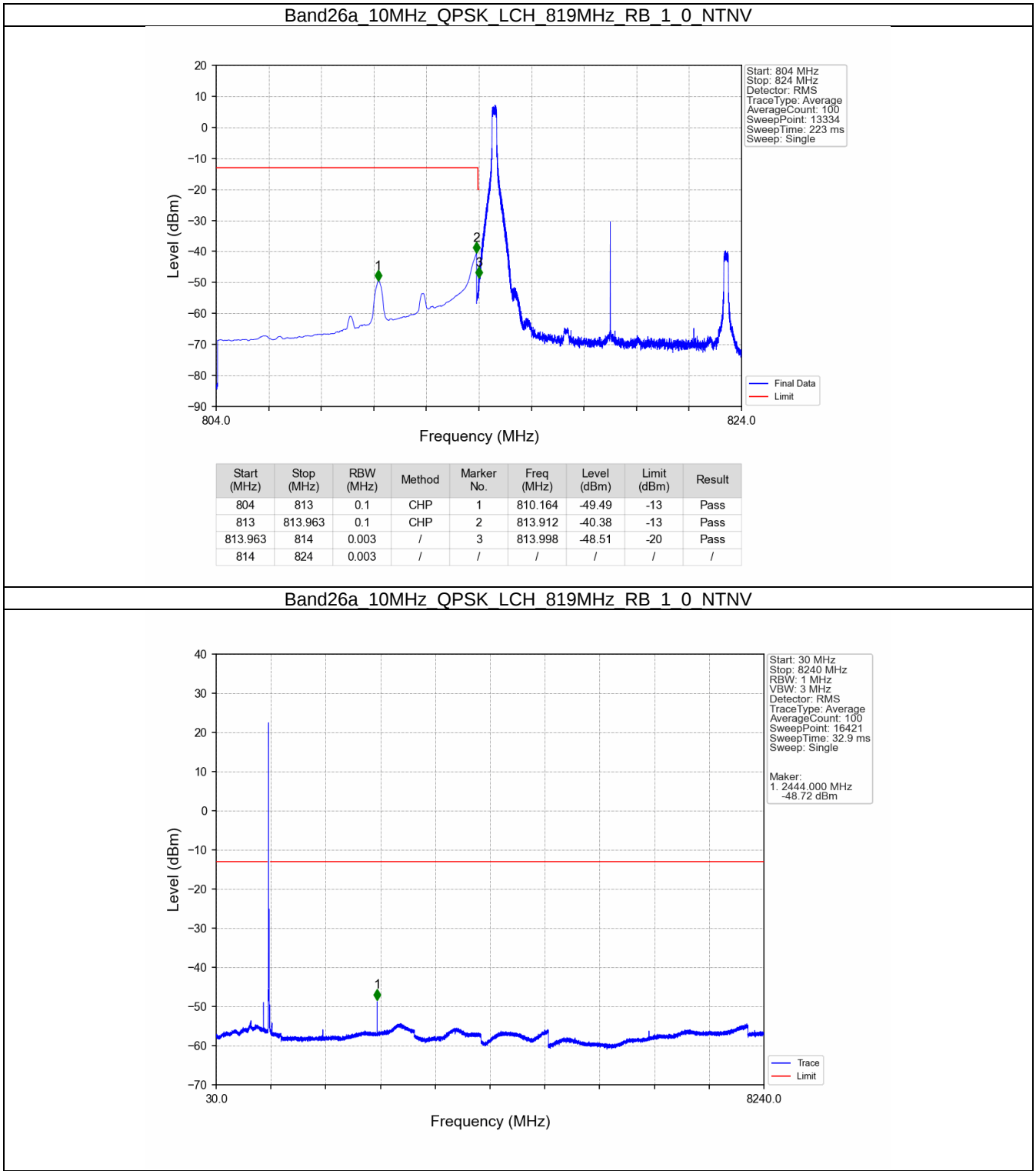
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.001	-34.97	-20	Pass
824.038	825	0.1	CHP	2	824.089	-31.09	-13	Pass
825	829	0.1	CHP	3	825.808	-44.93	-13	Pass

Band26a_5MHz_QPSK_HCH_821.5MHz_RB_25_0_NTNV

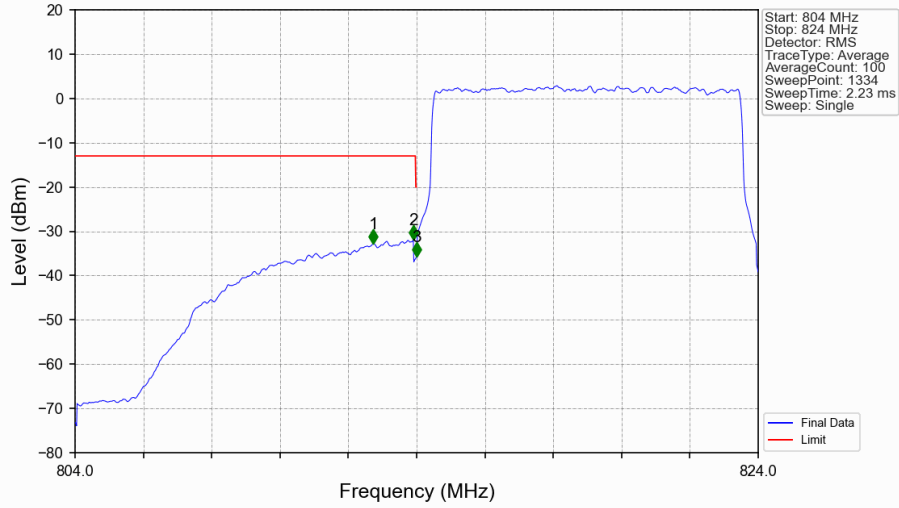


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.051	CHP	/	/	/	/	/
824	824.038	0.051	CHP	1	824.010	-33.81	-20	Pass
824.038	825	0.1	CHP	2	824.090	-34.31	-13	Pass
825	829	0.1	CHP	3	825.010	-39.99	-13	Pass

5.2.4 B26a_10MHz

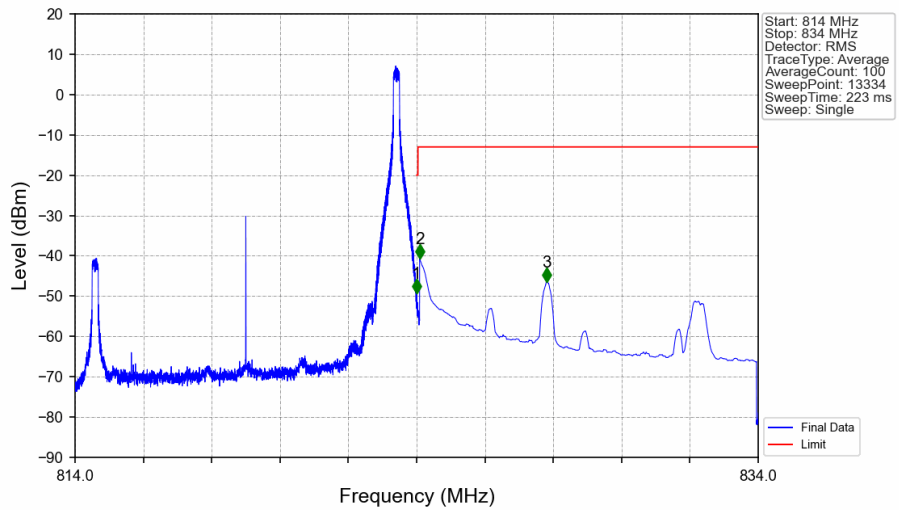


Band26a_10MHz_QPSK_LCH_819MHz_RB_50_0_NTNV



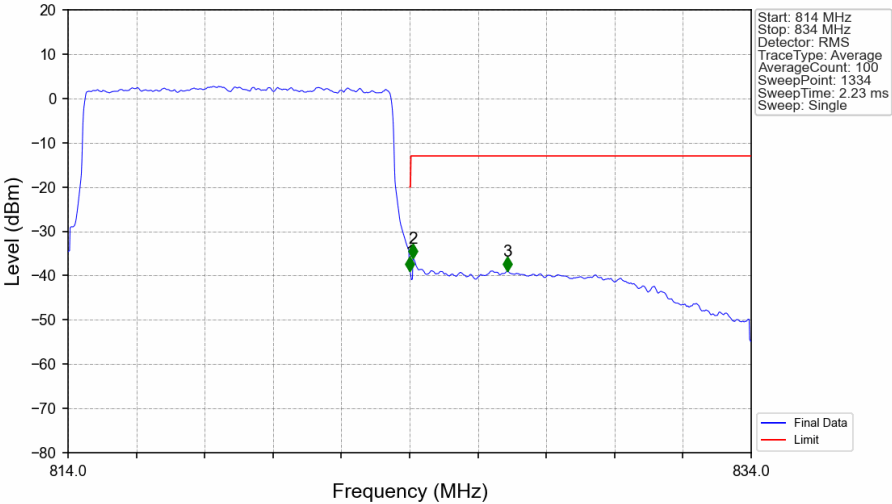
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
804	813	0.1	CHP	1	812.732	-32.76	-13	Pass
813	813.963	0.1	CHP	2	813.902	-31.92	-13	Pass
813.963	814	0.099	CHP	3	813.992	-35.71	-20	Pass
814	824	0.099	CHP	/	/	/	/	/

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	824.001	-49.32	-20	Pass
824.038	825	0.1	CHP	2	824.088	-40.69	-13	Pass
825	834	0.1	CHP	3	827.800	-46.45	-13	Pass

Band26a_10MHz_QPSK_HCH_819MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.098	CHP	/	/	/	/	/
824	824.038	0.098	CHP	1	824.008	-39.02	-20	Pass
824.038	825	0.1	CHP	2	824.098	-36.07	-13	Pass
825	834	0.1	CHP	3	826.858	-38.90	-13	Pass

6. Field Strength of Spurious Radiation

1.1. Test Band = LTE Band 26 BW 10M_ TM1

1.1.1. Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629.3333	69.51	-49.87	25.54	-50.07	-13.00	37.07	Horizontal
2	2444	53.08	-49.22	27.10	-64.31	-13.00	51.31	Horizontal
3	3501.7778	62.57	-48.43	28.50	-52.62	-13.00	39.62	Horizontal
4	4872.4444	50.20	-48.13	30.92	-62.27	-13.00	49.27	Horizontal
5	6535.1111	50.62	-47.09	34.76	-56.97	-13.00	43.97	Horizontal
6	7331.1111	54.85	-46.05	36.10	-50.37	-13.00	37.37	Horizontal

1.2. Test Band = LTE Band 26 BW 10M_ TM1

1.2.1. Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629.3333	53.48	-49.87	25.54	-66.10	-13.00	53.10	Vertical
2	2208	48.72	-49.46	26.67	-69.33	-13.00	56.33	Vertical
3	3201.3333	49.75	-48.62	28.26	-65.87	-13.00	52.87	Vertical
4	3796	49.00	-48.42	28.97	-65.71	-13.00	52.71	Vertical
5	5747.1111	51.00	-47.60	32.70	-59.16	-13.00	46.16	Vertical
6	7331.1111	53.57	-46.05	36.10	-51.65	-13.00	38.65	Vertical