



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

SUWI-TRF-RF A001

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Appendix B.12

LTE Band 14



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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1. Frequency Stability

1.1 B14_5MHz

1.1.1 Test Result

Band: 14 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	790.5	25	0	20	3.8	0.662	0.0008	-2.5 to 2.5	Pass
					4.0	1.170	0.0015	-2.5 to 2.5	Pass
					4.2	1.564	0.0020	-2.5 to 2.5	Pass
				-30	4.0	1.864	0.0024	-2.5 to 2.5	Pass
				-20	4.0	-0.758	-0.0010	-2.5 to 2.5	Pass
				-10	4.0	-0.298	-0.0004	-2.5 to 2.5	Pass
				0	4.0	1.039	0.0013	-2.5 to 2.5	Pass
				10	4.0	1.513	0.0019	-2.5 to 2.5	Pass
				30	4.0	-0.273	-0.0003	-2.5 to 2.5	Pass
				40	4.0	0.177	0.0002	-2.5 to 2.5	Pass
				50	4.0	0.822	0.0010	-2.5 to 2.5	Pass
	793	25	0	20	3.8	0.656	0.0008	-2.5 to 2.5	Pass
					4.0	1.117	0.0014	-2.5 to 2.5	Pass
					4.2	0.022	0.0000	-2.5 to 2.5	Pass
				-30	4.0	0.216	0.0003	-2.5 to 2.5	Pass
				-20	4.0	-0.198	-0.0002	-2.5 to 2.5	Pass
				-10	4.0	0.101	0.0001	-2.5 to 2.5	Pass
				0	4.0	2.502	0.0032	-2.5 to 2.5	Pass
				10	4.0	1.578	0.0020	-2.5 to 2.5	Pass
				30	4.0	0.903	0.0011	-2.5 to 2.5	Pass
				40	4.0	0.815	0.0010	-2.5 to 2.5	Pass
				50	4.0	1.265	0.0016	-2.5 to 2.5	Pass
	795.5	25	0	20	3.8	0.816	0.0010	-2.5 to 2.5	Pass
					4.0	0.397	0.0005	-2.5 to 2.5	Pass
					4.2	1.003	0.0013	-2.5 to 2.5	Pass
				-30	4.0	0.861	0.0011	-2.5 to 2.5	Pass
				-20	4.0	3.200	0.0040	-2.5 to 2.5	Pass
				-10	4.0	0.165	0.0002	-2.5 to 2.5	Pass
				0	4.0	2.700	0.0034	-2.5 to 2.5	Pass
				10	4.0	1.228	0.0015	-2.5 to 2.5	Pass
				30	4.0	2.104	0.0026	-2.5 to 2.5	Pass
				40	4.0	0.240	0.0003	-2.5 to 2.5	Pass
				50	4.0	0.730	0.0009	-2.5 to 2.5	Pass
16QAM	790.5	25	0	20	3.8	1.178	0.0015	-2.5 to 2.5	Pass
					4.0	-0.194	-0.0002	-2.5 to 2.5	Pass
					4.2	1.577	0.0020	-2.5 to 2.5	Pass
				-30	4.0	0.153	0.0002	-2.5 to 2.5	Pass
				-20	4.0	0.731	0.0009	-2.5 to 2.5	Pass
				-10	4.0	1.252	0.0016	-2.5 to 2.5	Pass
				0	4.0	0.069	0.0001	-2.5 to 2.5	Pass
				10	4.0	-0.896	-0.0011	-2.5 to 2.5	Pass
				30	4.0	-0.158	-0.0002	-2.5 to 2.5	Pass
				40	4.0	-1.078	-0.0014	-2.5 to 2.5	Pass



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	793	25	0	50	4.0	0.057	0.0001	-2.5 to 2.5	Pass
				20	3.8	1.949	0.0025	-2.5 to 2.5	Pass
					4.0	1.130	0.0014	-2.5 to 2.5	Pass
					4.2	1.968	0.0025	-2.5 to 2.5	Pass
				-30	4.0	0.269	0.0003	-2.5 to 2.5	Pass
				-20	4.0	0.987	0.0012	-2.5 to 2.5	Pass
				-10	4.0	2.250	0.0028	-2.5 to 2.5	Pass
				0	4.0	0.829	0.0010	-2.5 to 2.5	Pass
				10	4.0	-0.721	-0.0009	-2.5 to 2.5	Pass
				30	4.0	0.011	0.0000	-2.5 to 2.5	Pass
				40	4.0	-0.029	0.0000	-2.5 to 2.5	Pass
				50	4.0	-1.533	-0.0019	-2.5 to 2.5	Pass
	795.5	25	0	20	3.8	0.939	0.0012	-2.5 to 2.5	Pass
					4.0	1.872	0.0024	-2.5 to 2.5	Pass
					4.2	0.742	0.0009	-2.5 to 2.5	Pass
				-30	4.0	-0.461	-0.0006	-2.5 to 2.5	Pass
				-20	4.0	-0.242	-0.0003	-2.5 to 2.5	Pass
				-10	4.0	-0.336	-0.0004	-2.5 to 2.5	Pass
				0	4.0	-0.682	-0.0009	-2.5 to 2.5	Pass
				10	4.0	1.135	0.0014	-2.5 to 2.5	Pass
				30	4.0	-1.392	-0.0017	-2.5 to 2.5	Pass
				40	4.0	-1.911	-0.0024	-2.5 to 2.5	Pass
				50	4.0	-2.381	-0.0030	-2.5 to 2.5	Pass
64QAM	790.5	25	0	20	3.8	0.788	0.0010	-2.5 to 2.5	Pass
					4.0	0.505	0.0006	-2.5 to 2.5	Pass
					4.2	-0.583	-0.0007	-2.5 to 2.5	Pass
				-30	4.0	0.872	0.0011	-2.5 to 2.5	Pass
				-20	4.0	0.049	0.0001	-2.5 to 2.5	Pass
				-10	4.0	0.354	0.0004	-2.5 to 2.5	Pass
				0	4.0	0.983	0.0012	-2.5 to 2.5	Pass
				10	4.0	0.094	0.0001	-2.5 to 2.5	Pass
				30	4.0	-0.709	-0.0009	-2.5 to 2.5	Pass
				40	4.0	0.258	0.0003	-2.5 to 2.5	Pass
				50	4.0	1.177	0.0015	-2.5 to 2.5	Pass
	793	25	0	20	3.8	2.272	0.0029	-2.5 to 2.5	Pass
					4.0	-0.502	-0.0006	-2.5 to 2.5	Pass
					4.2	0.906	0.0011	-2.5 to 2.5	Pass
				-30	4.0	2.264	0.0029	-2.5 to 2.5	Pass
				-20	4.0	0.426	0.0005	-2.5 to 2.5	Pass
				-10	4.0	0.613	0.0008	-2.5 to 2.5	Pass
				0	4.0	-0.257	-0.0003	-2.5 to 2.5	Pass
				10	4.0	-1.313	-0.0017	-2.5 to 2.5	Pass
				30	4.0	1.805	0.0023	-2.5 to 2.5	Pass
				40	4.0	0.540	0.0007	-2.5 to 2.5	Pass
				50	4.0	-0.737	-0.0009	-2.5 to 2.5	Pass
	795.5	25	0	20	3.8	-0.261	-0.0003	-2.5 to 2.5	Pass
					4.0	-1.730	-0.0022	-2.5 to 2.5	Pass
					4.2	-0.755	-0.0009	-2.5 to 2.5	Pass
				-30	4.0	0.363	0.0005	-2.5 to 2.5	Pass
				-20	4.0	0.056	0.0001	-2.5 to 2.5	Pass
				-10	4.0	-0.420	-0.0005	-2.5 to 2.5	Pass
				0	4.0	0.767	0.0010	-2.5 to 2.5	Pass
				10	4.0	-0.402	-0.0005	-2.5 to 2.5	Pass



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				30	4.0	0.568	0.0007	-2.5 to 2.5	Pass
				40	4.0	-1.035	-0.0013	-2.5 to 2.5	Pass
				50	4.0	0.124	0.0002	-2.5 to 2.5	Pass



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1.2 B14_10MHz

1.2.1 Test Result

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	3.8	1.351	0.0017	-2.5 to 2.5	Pass
					4.0	1.286	0.0016	-2.5 to 2.5	Pass
					4.2	0.462	0.0006	-2.5 to 2.5	Pass
				-30	4.0	-0.934	-0.0012	-2.5 to 2.5	Pass
				-20	4.0	1.528	0.0019	-2.5 to 2.5	Pass
				-10	4.0	1.521	0.0019	-2.5 to 2.5	Pass
				0	4.0	-0.758	-0.0010	-2.5 to 2.5	Pass
				10	4.0	-0.504	-0.0006	-2.5 to 2.5	Pass
				30	4.0	1.229	0.0015	-2.5 to 2.5	Pass
				40	4.0	0.224	0.0003	-2.5 to 2.5	Pass
				50	4.0	0.796	0.0010	-2.5 to 2.5	Pass
16QAM	793	50	0	20	3.8	-0.752	-0.0009	-2.5 to 2.5	Pass
					4.0	-0.553	-0.0007	-2.5 to 2.5	Pass
					4.2	-0.058	-0.0001	-2.5 to 2.5	Pass
				-30	4.0	-0.213	-0.0003	-2.5 to 2.5	Pass
				-20	4.0	1.028	0.0013	-2.5 to 2.5	Pass
				-10	4.0	-0.422	-0.0005	-2.5 to 2.5	Pass
				0	4.0	-0.192	-0.0002	-2.5 to 2.5	Pass
				10	4.0	-0.566	-0.0007	-2.5 to 2.5	Pass
				30	4.0	1.524	0.0019	-2.5 to 2.5	Pass
				40	4.0	0.320	0.0004	-2.5 to 2.5	Pass
				50	4.0	-1.108	-0.0014	-2.5 to 2.5	Pass
64QAM	793	50	0	20	3.8	1.355	0.0017	-2.5 to 2.5	Pass
					4.0	-0.862	-0.0011	-2.5 to 2.5	Pass
					4.2	-1.642	-0.0021	-2.5 to 2.5	Pass
				-30	4.0	0.999	0.0013	-2.5 to 2.5	Pass
				-20	4.0	0.493	0.0006	-2.5 to 2.5	Pass
				-10	4.0	1.085	0.0014	-2.5 to 2.5	Pass
				0	4.0	-1.405	-0.0018	-2.5 to 2.5	Pass
				10	4.0	-0.209	-0.0003	-2.5 to 2.5	Pass
				30	4.0	-1.701	-0.0021	-2.5 to 2.5	Pass
				40	4.0	0.177	0.0002	-2.5 to 2.5	Pass
				50	4.0	0.955	0.0012	-2.5 to 2.5	Pass



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2. 99% & 26dB Bandwidth

2.1 Band14_OBW

2.1.1 Test Result

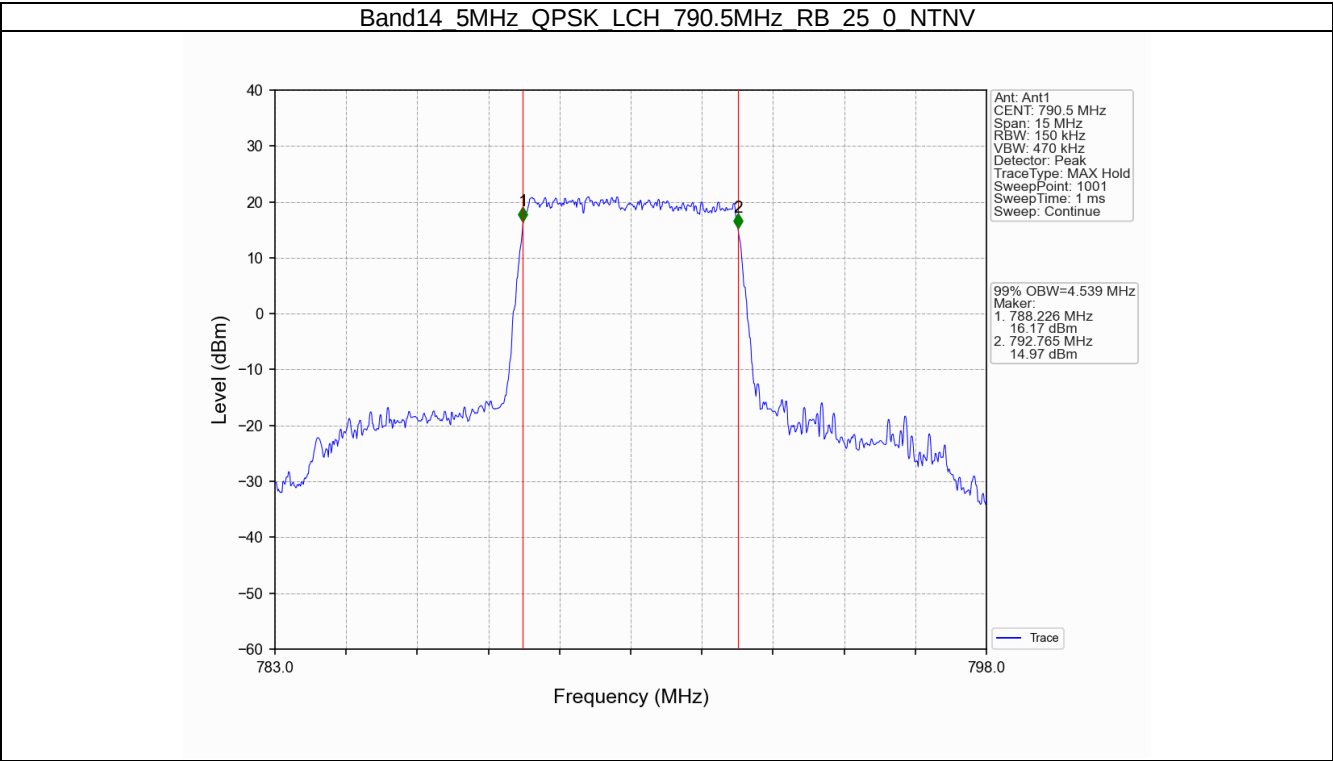
Band: 14 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	790.5	25	0	4.539	/	Pass
		793	25	0	4.547	/	Pass
		795.5	25	0	4.570	/	Pass
	16QAM	790.5	25	0	4.560	/	Pass
		793	25	0	4.544	/	Pass
		795.5	25	0	4.546	/	Pass
	64QAM	790.5	25	0	4.554	/	Pass
		793	25	0	4.532	/	Pass
		795.5	25	0	4.545	/	Pass
10	QPSK	793	50	0	9.048	/	Pass
	16QAM	793	50	0	9.047	/	Pass
	64QAM	793	50	0	9.027	/	Pass



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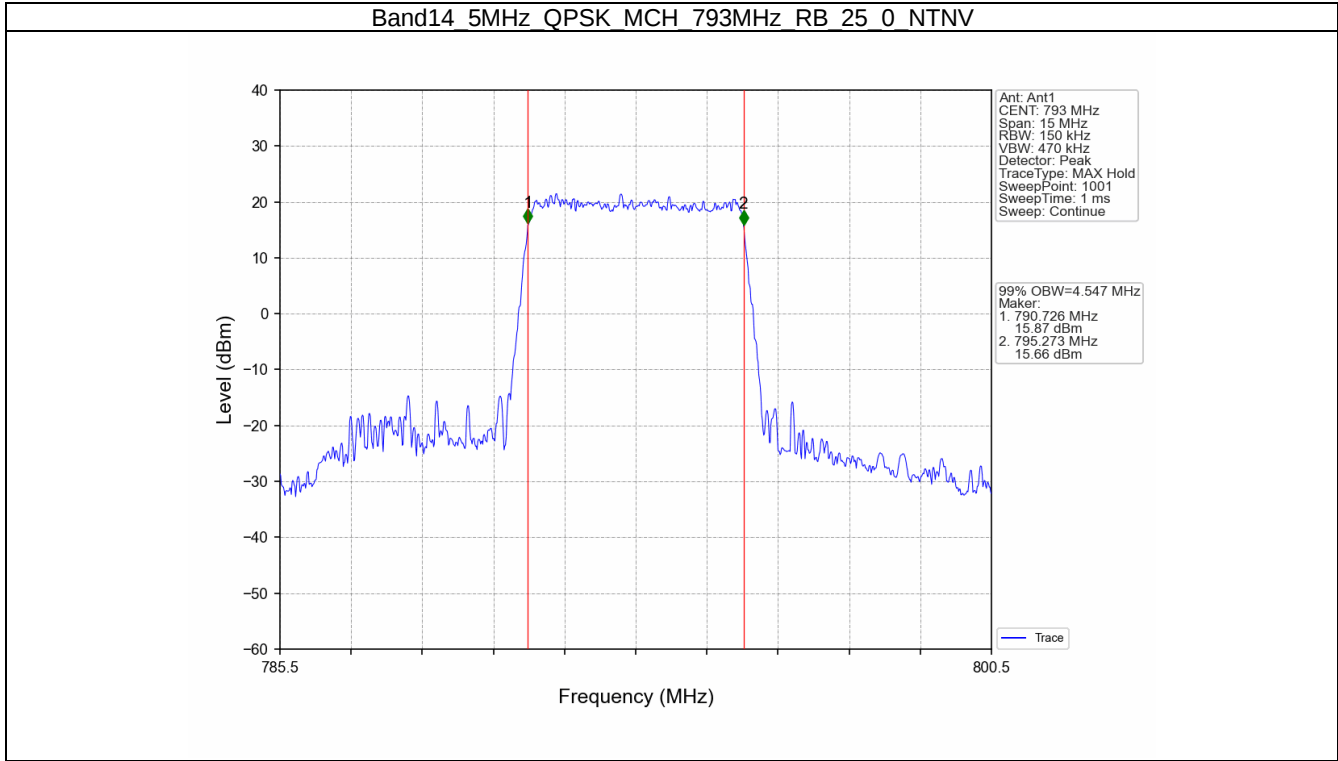
2.1.2 Test Graph





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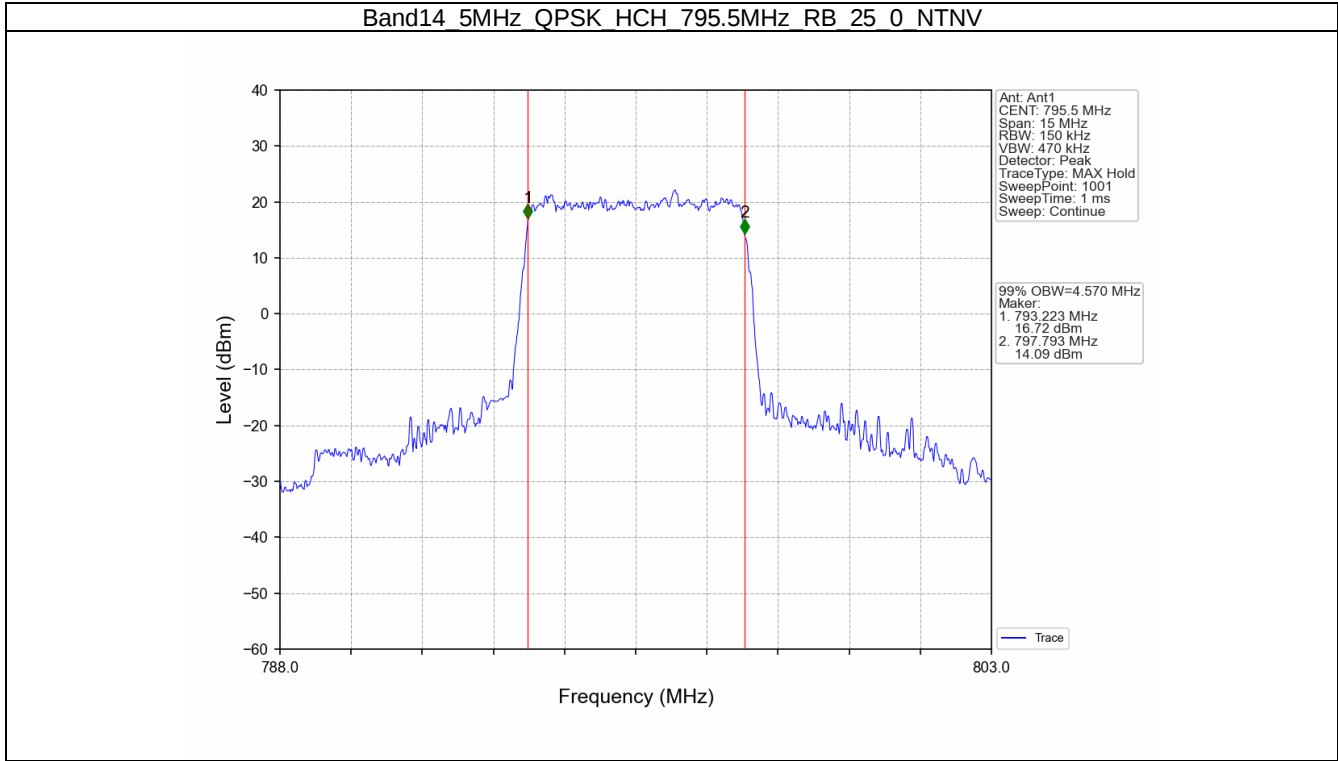
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

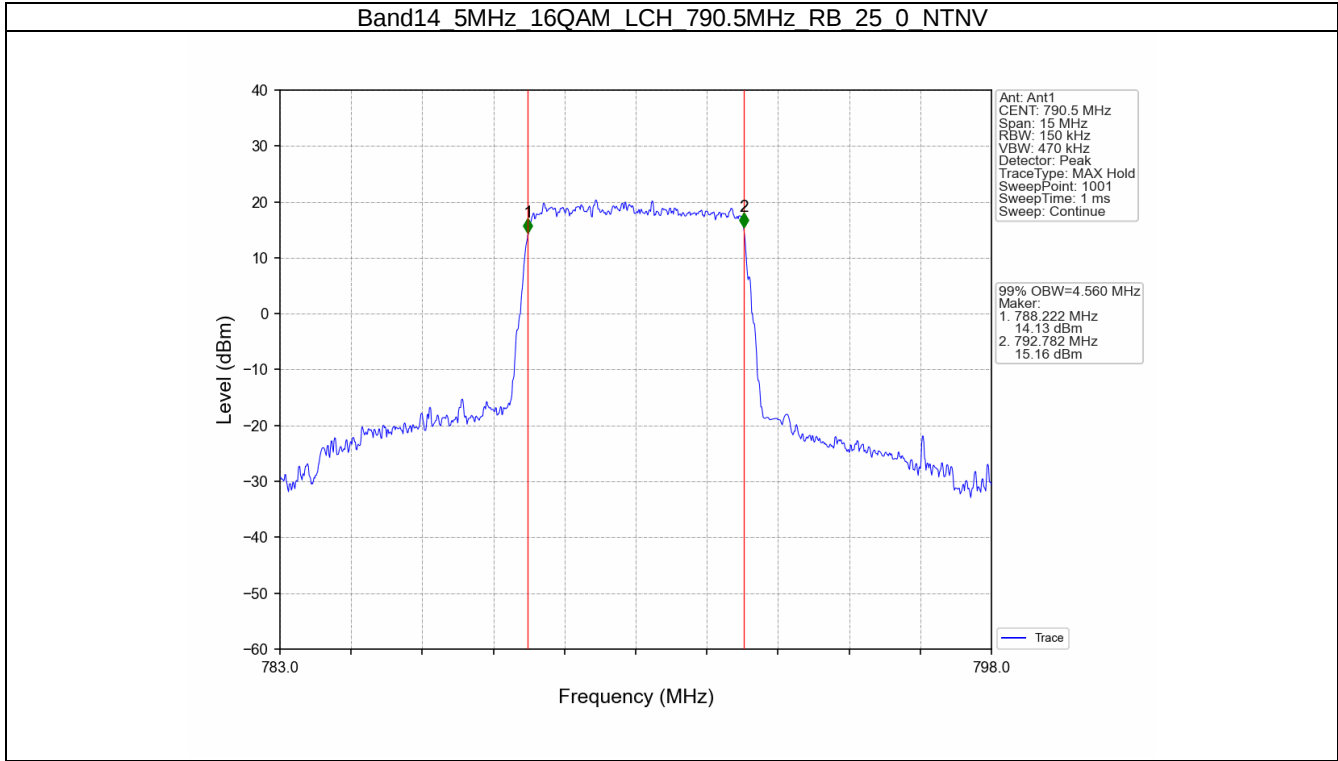
SUWI-TRF-RF A001





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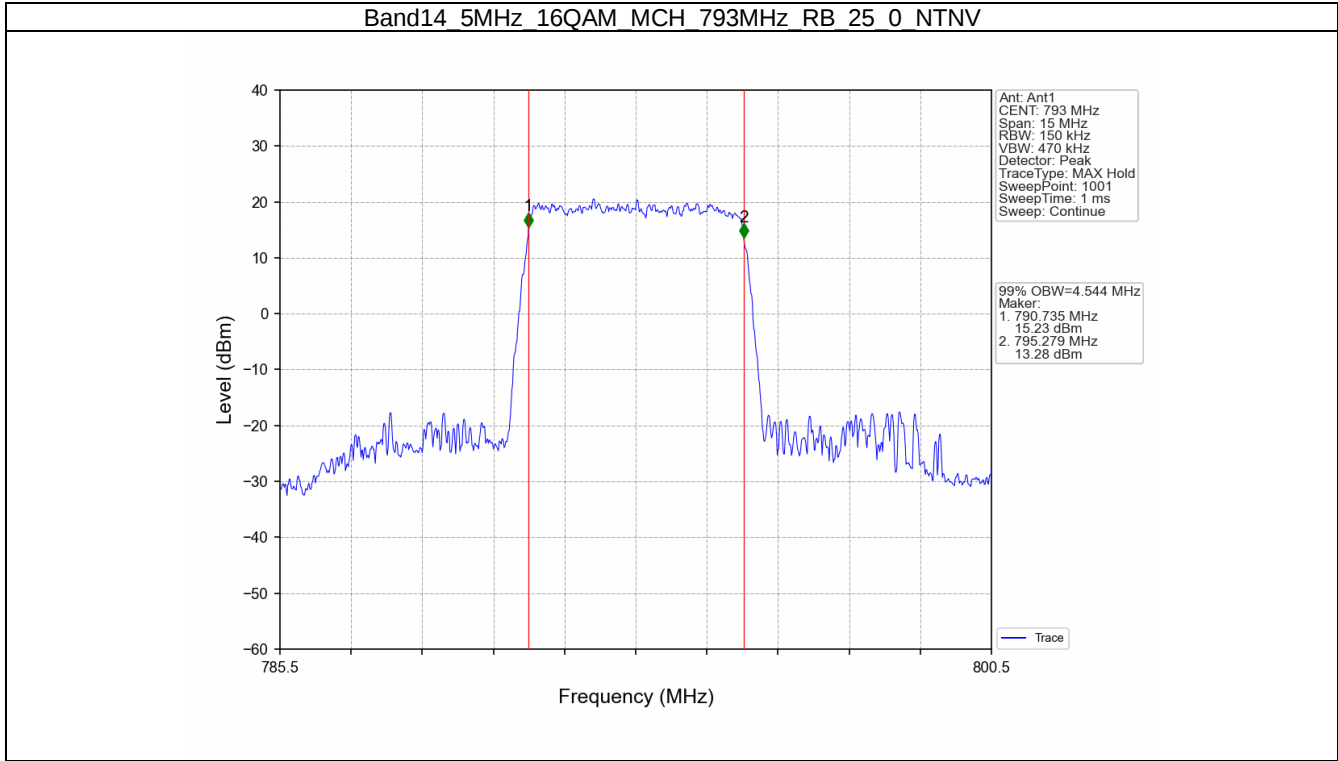
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

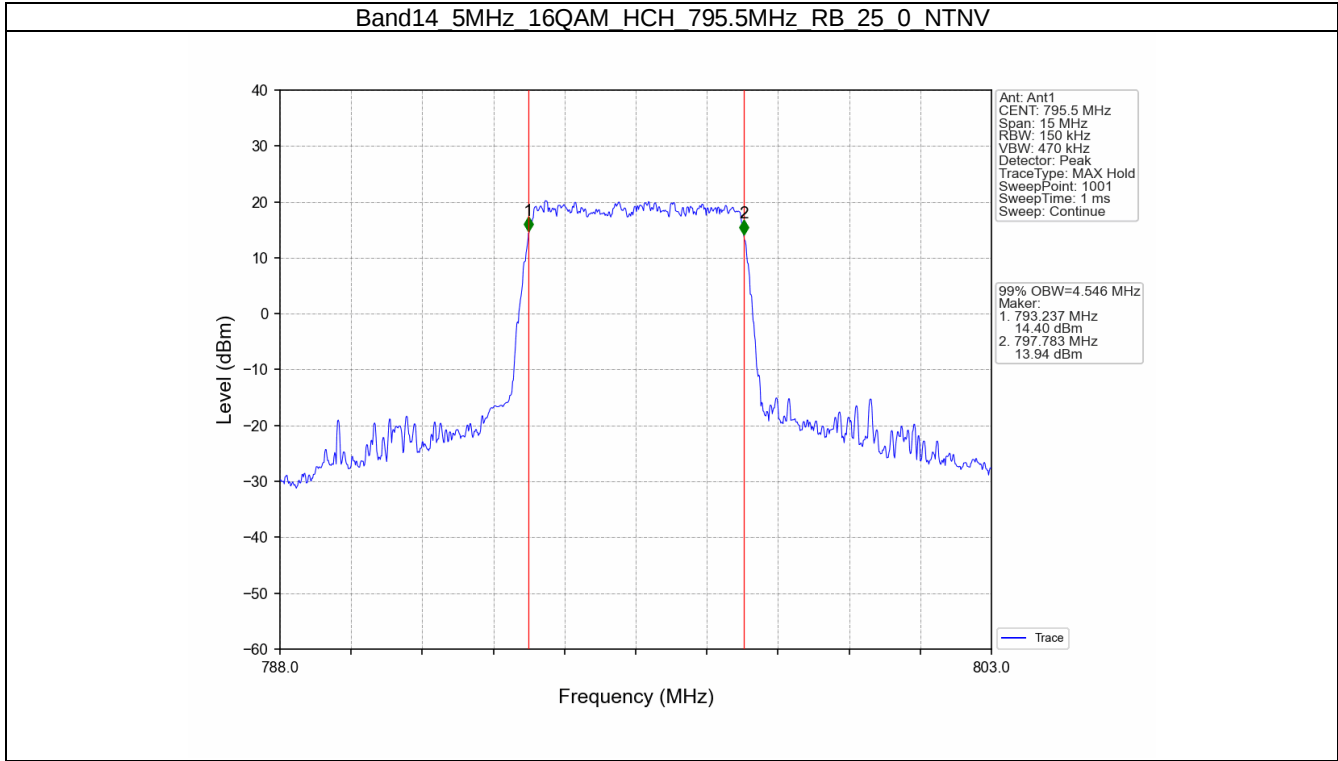
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

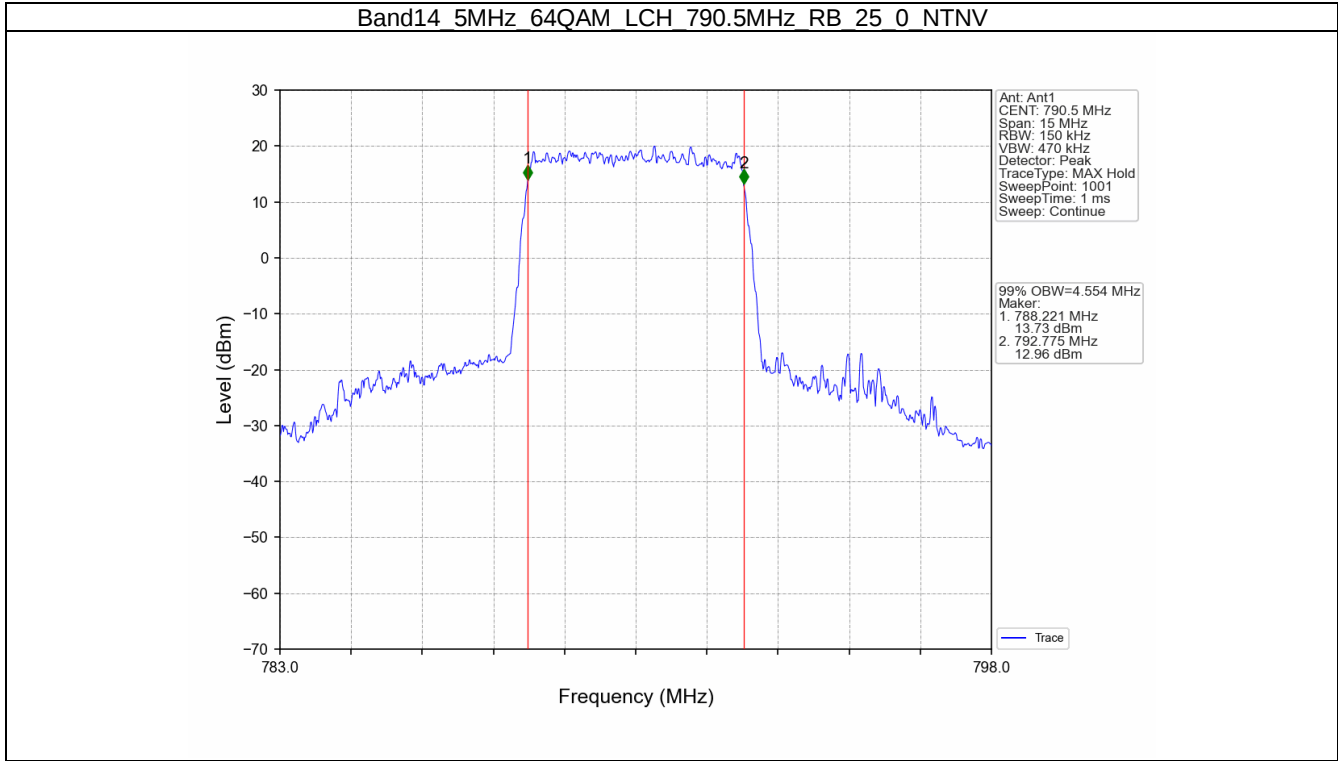
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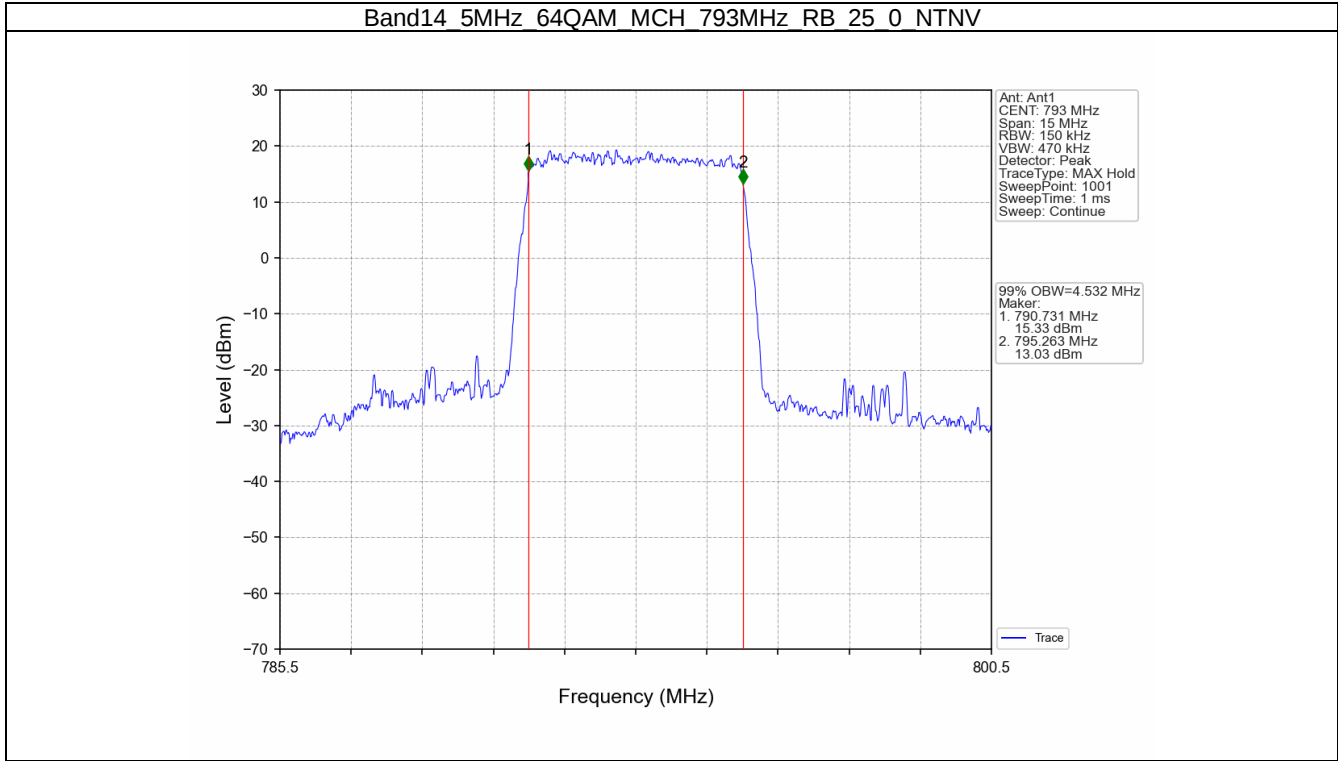
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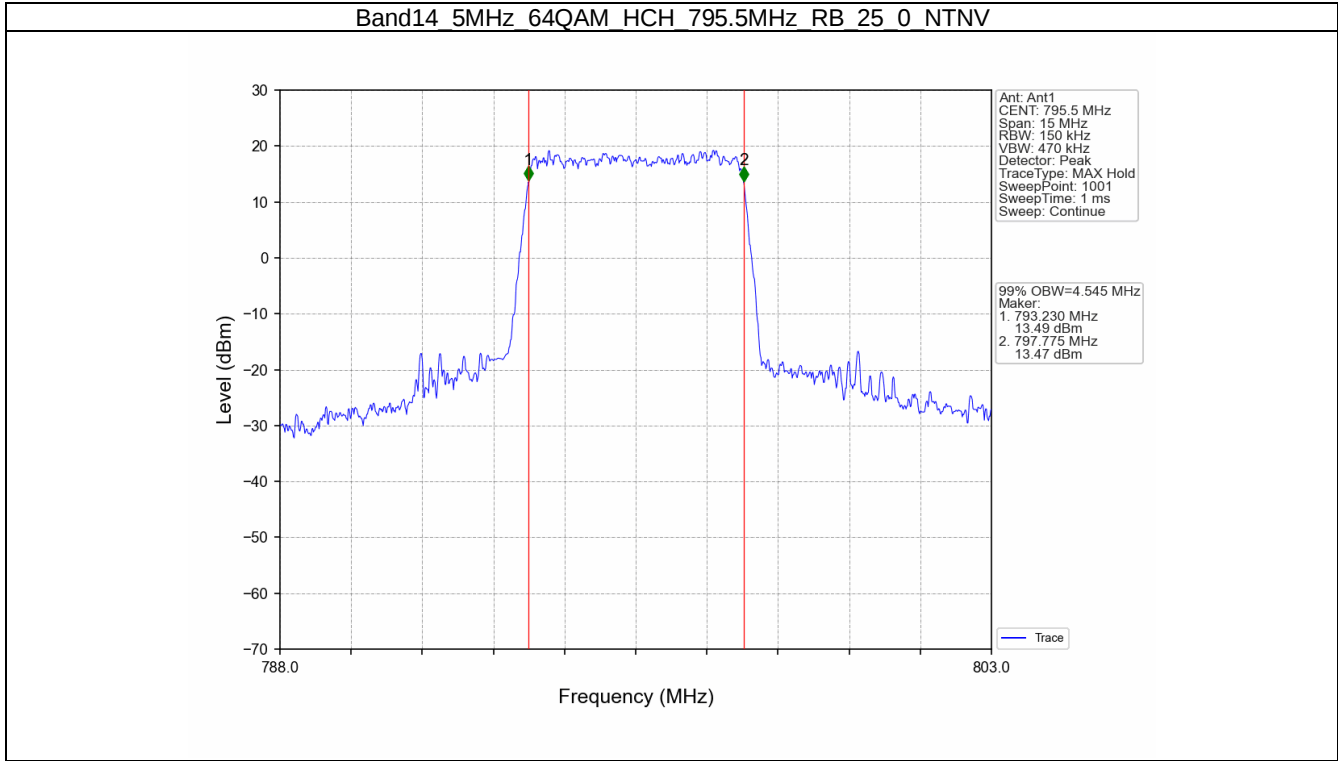
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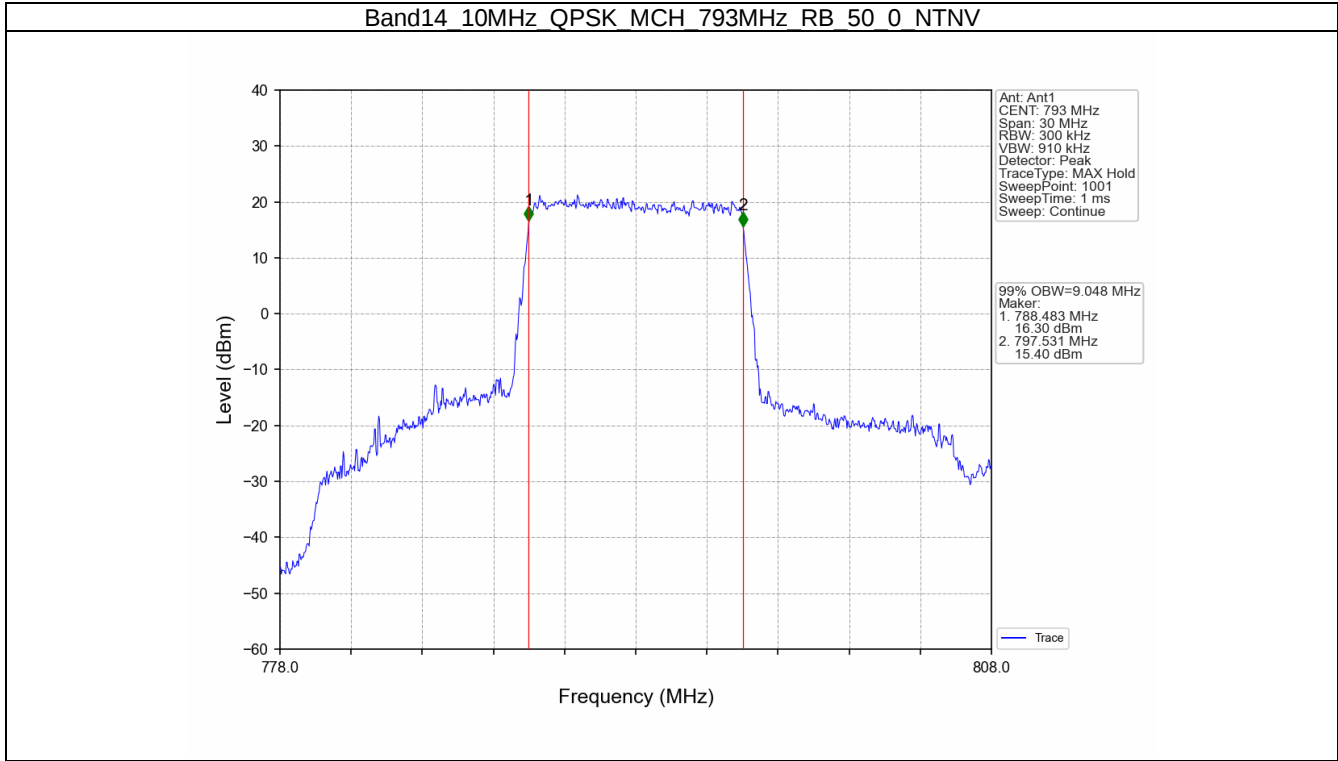
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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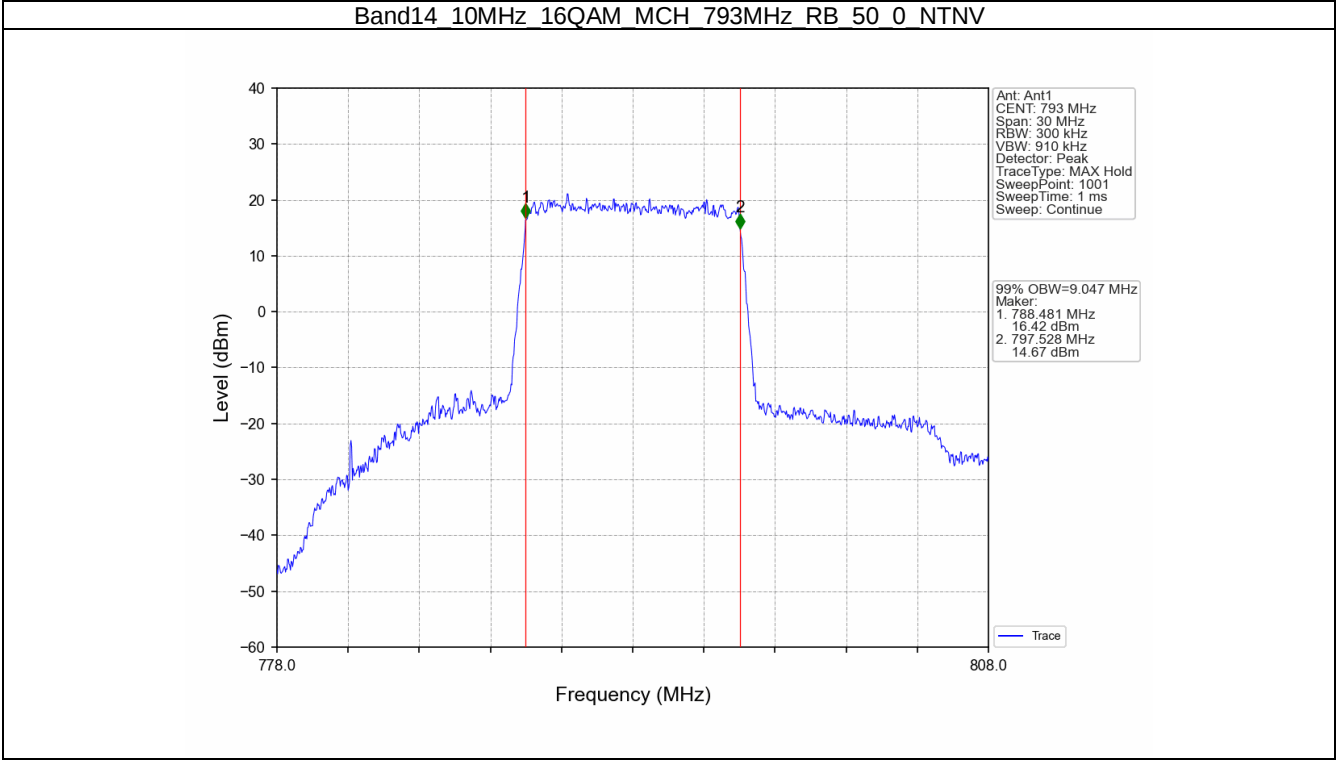




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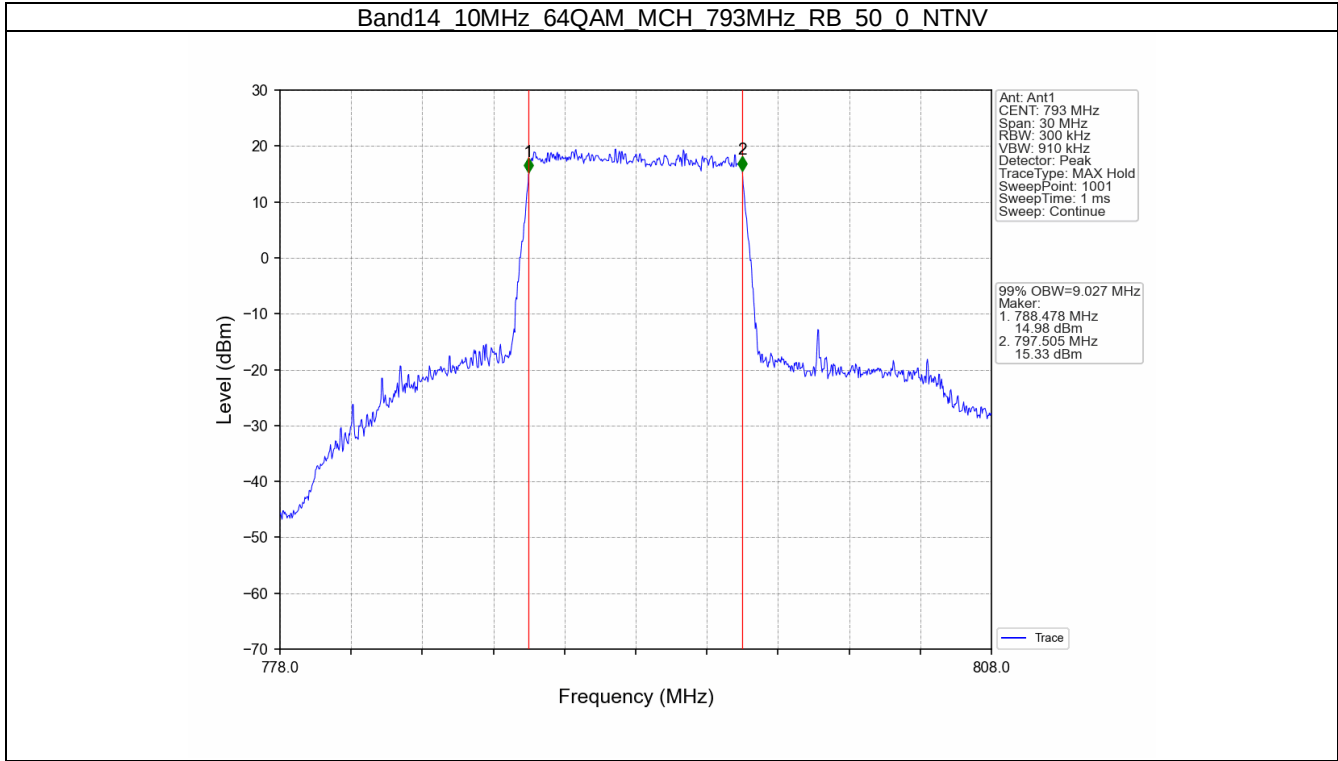
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2.2 Band14_XDB

2.2.1 Test Result

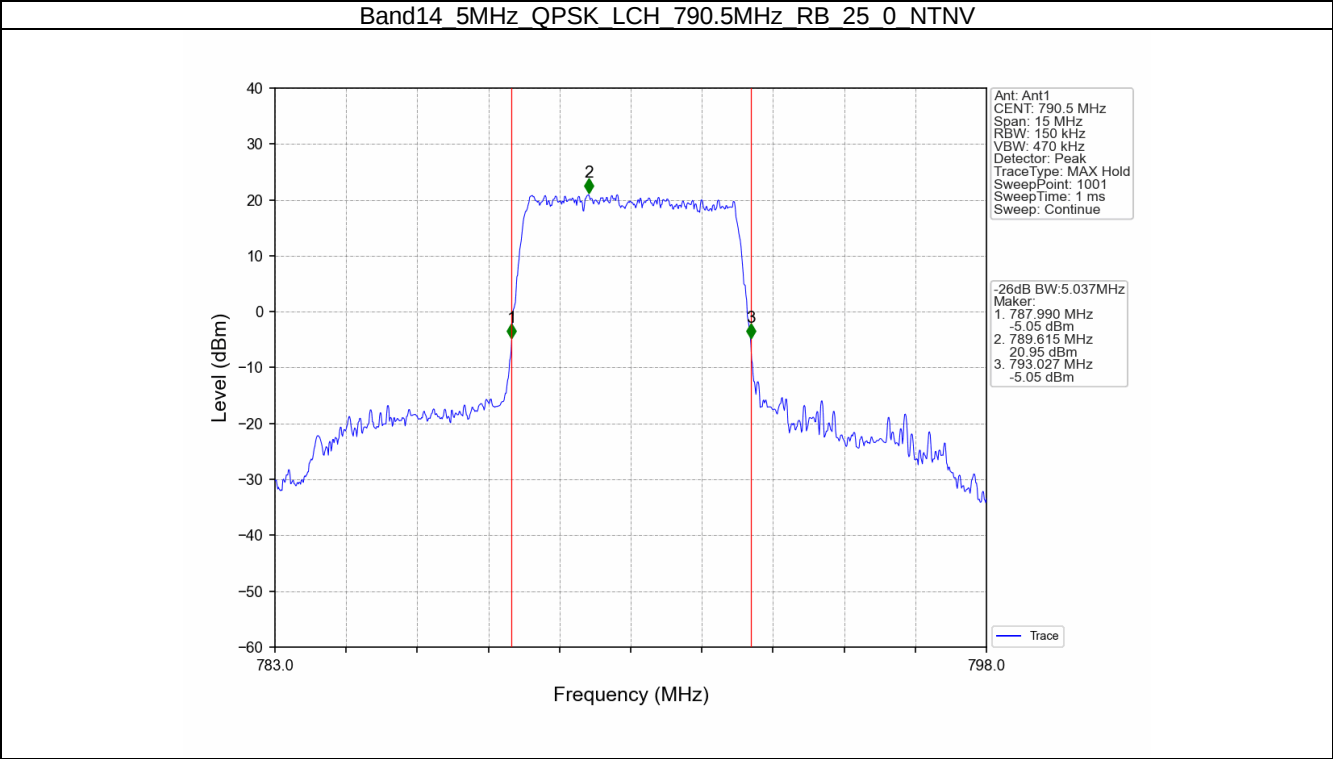
Band: 14 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	790.5	25	0	5.037	/	Pass
		793	25	0	5.028	/	Pass
		795.5	25	0	5.016	/	Pass
	16QAM	790.5	25	0	5.067	/	Pass
		793	25	0	5.048	/	Pass
		795.5	25	0	5.063	/	Pass
	64QAM	790.5	25	0	5.043	/	Pass
		793	25	0	5.073	/	Pass
		795.5	25	0	5.062	/	Pass
10	QPSK	793	50	0	10.089	/	Pass
	16QAM	793	50	0	9.938	/	Pass
	64QAM	793	50	0	9.969	/	Pass



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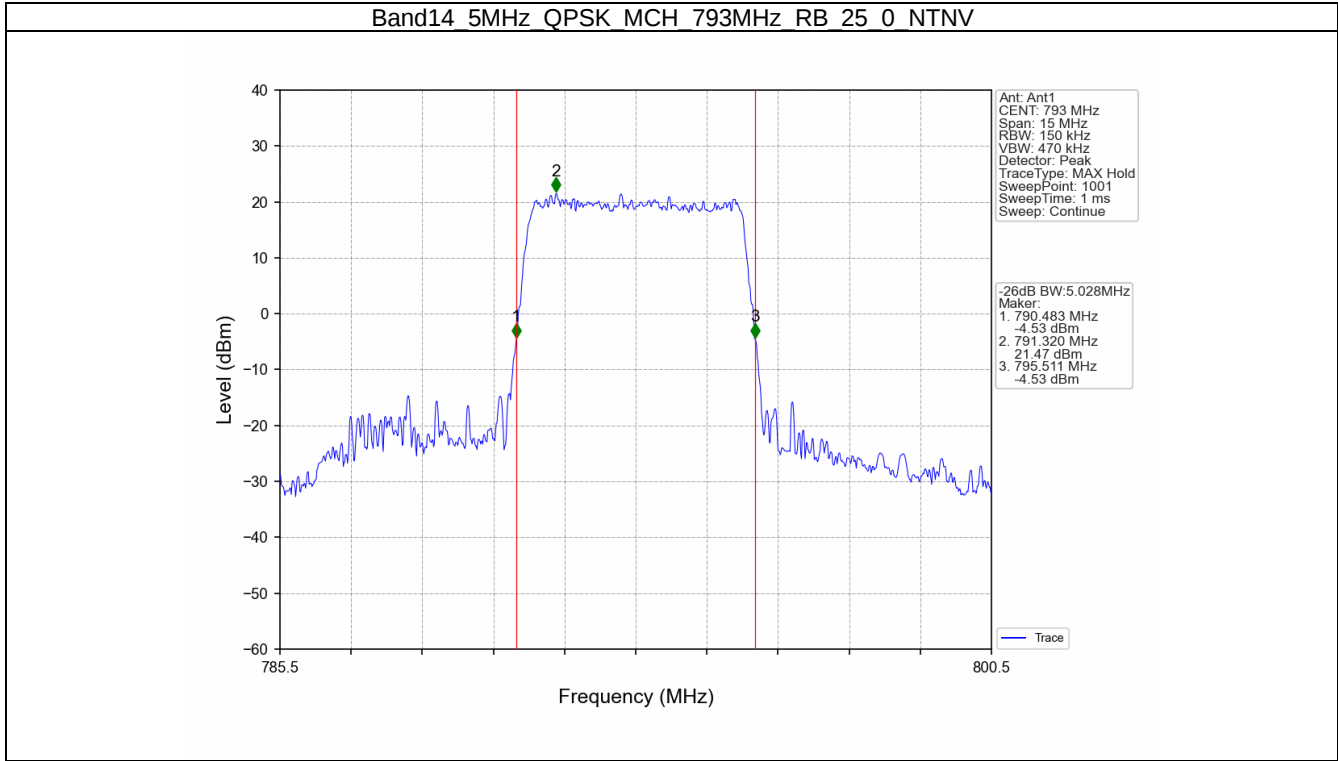
2.2.2 Test Graph





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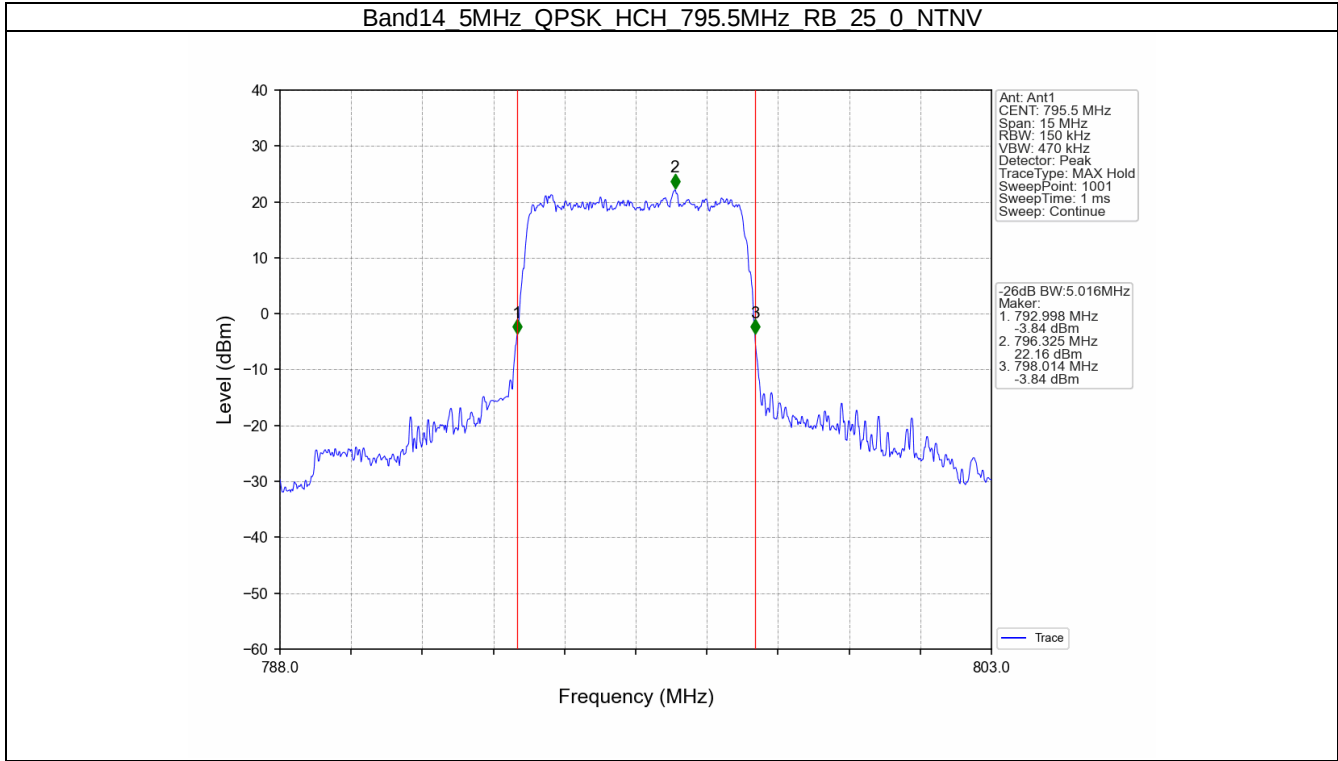




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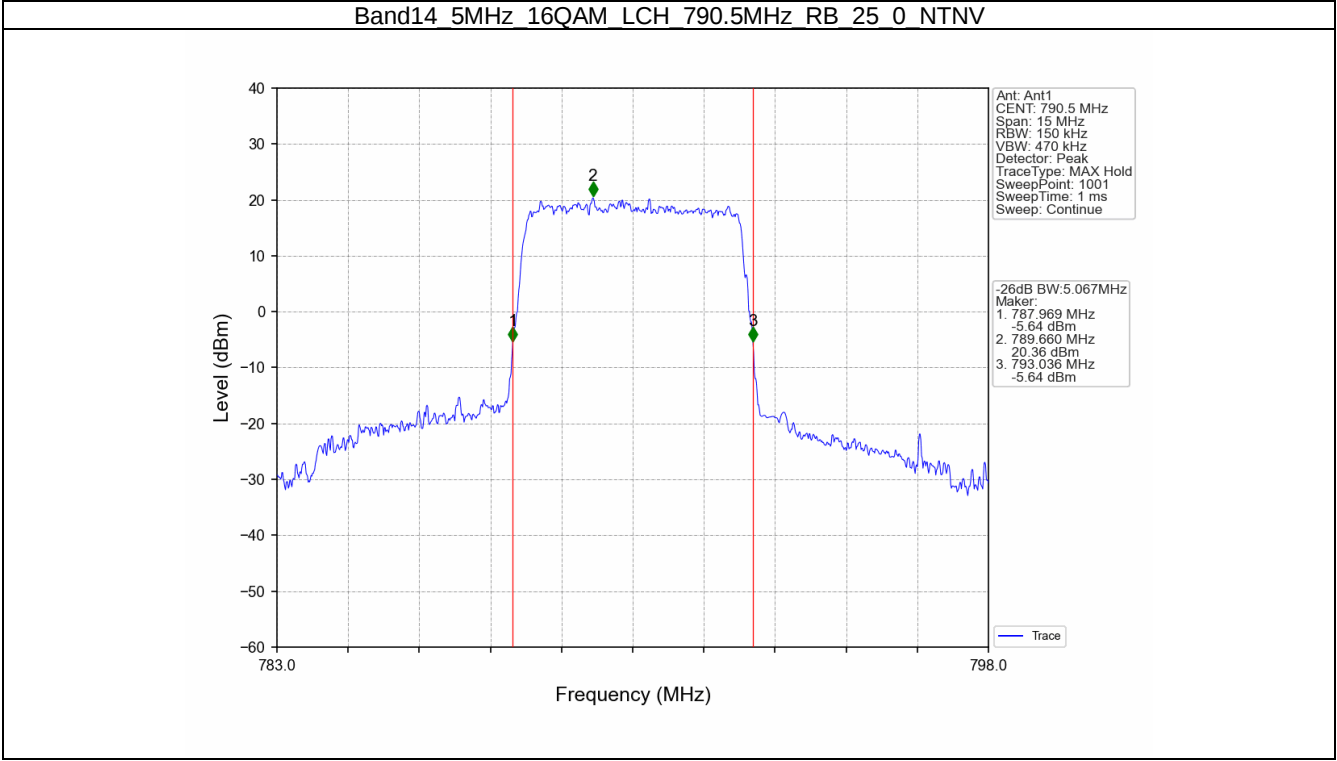
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

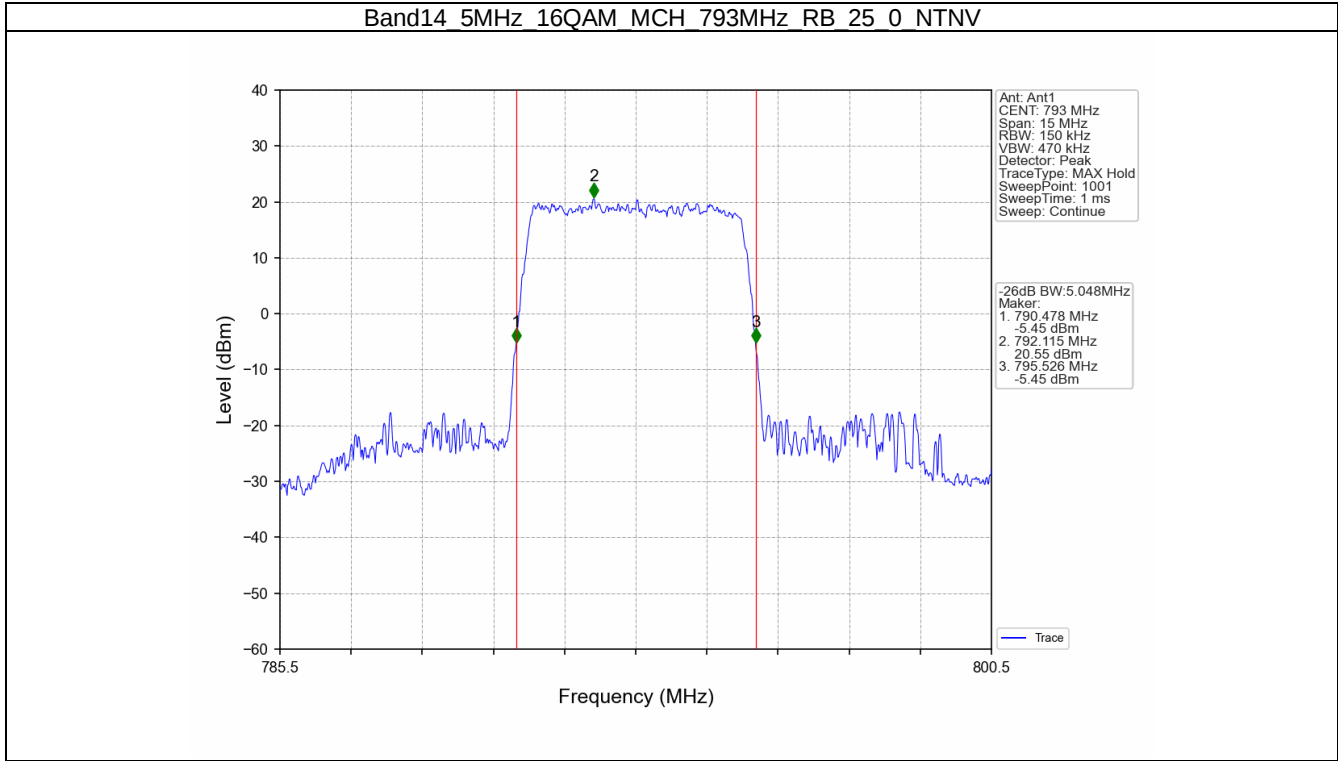
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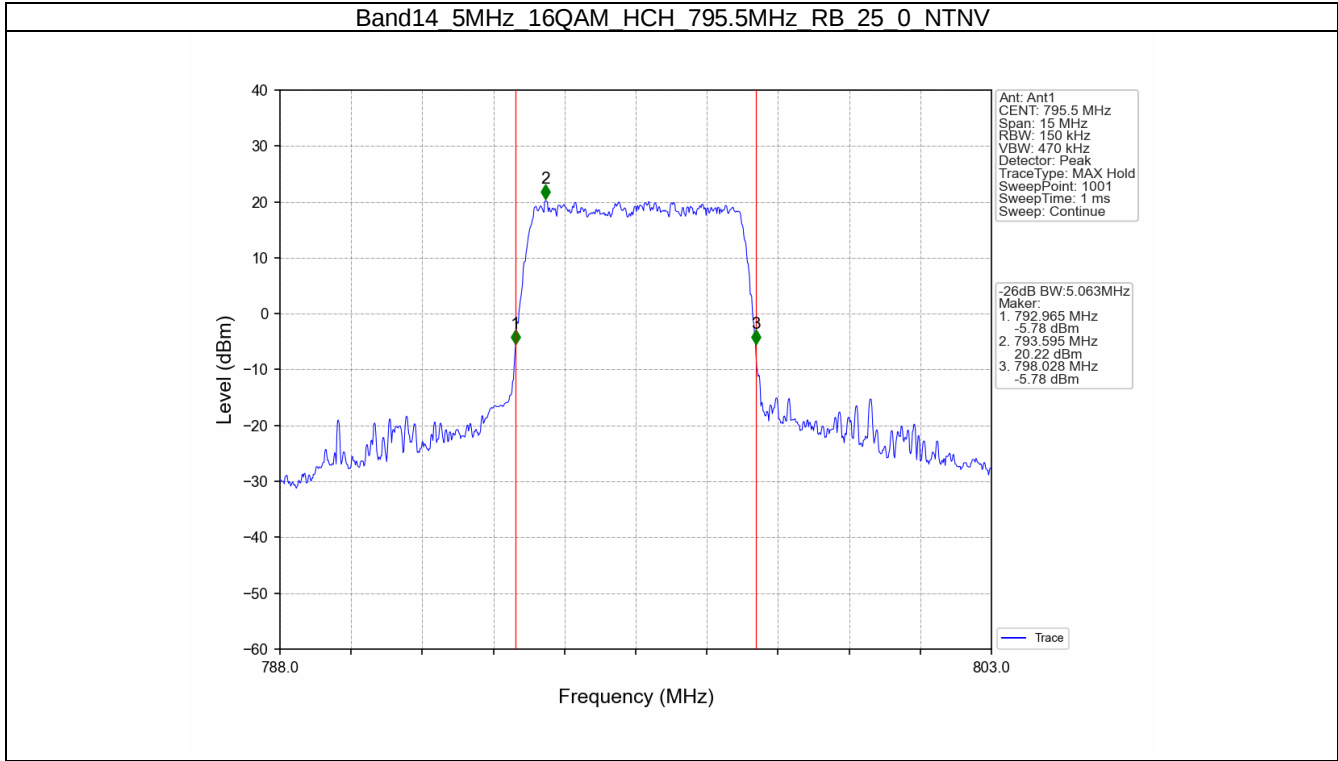
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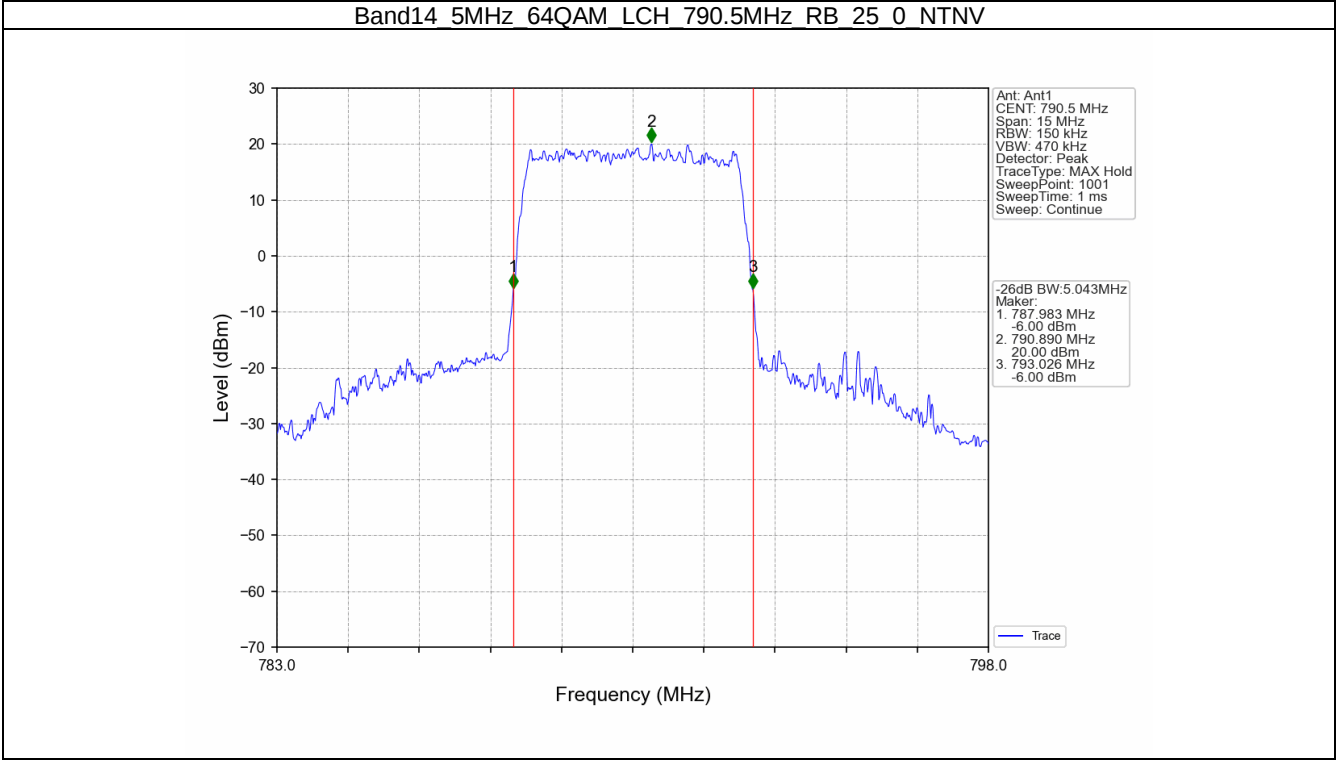
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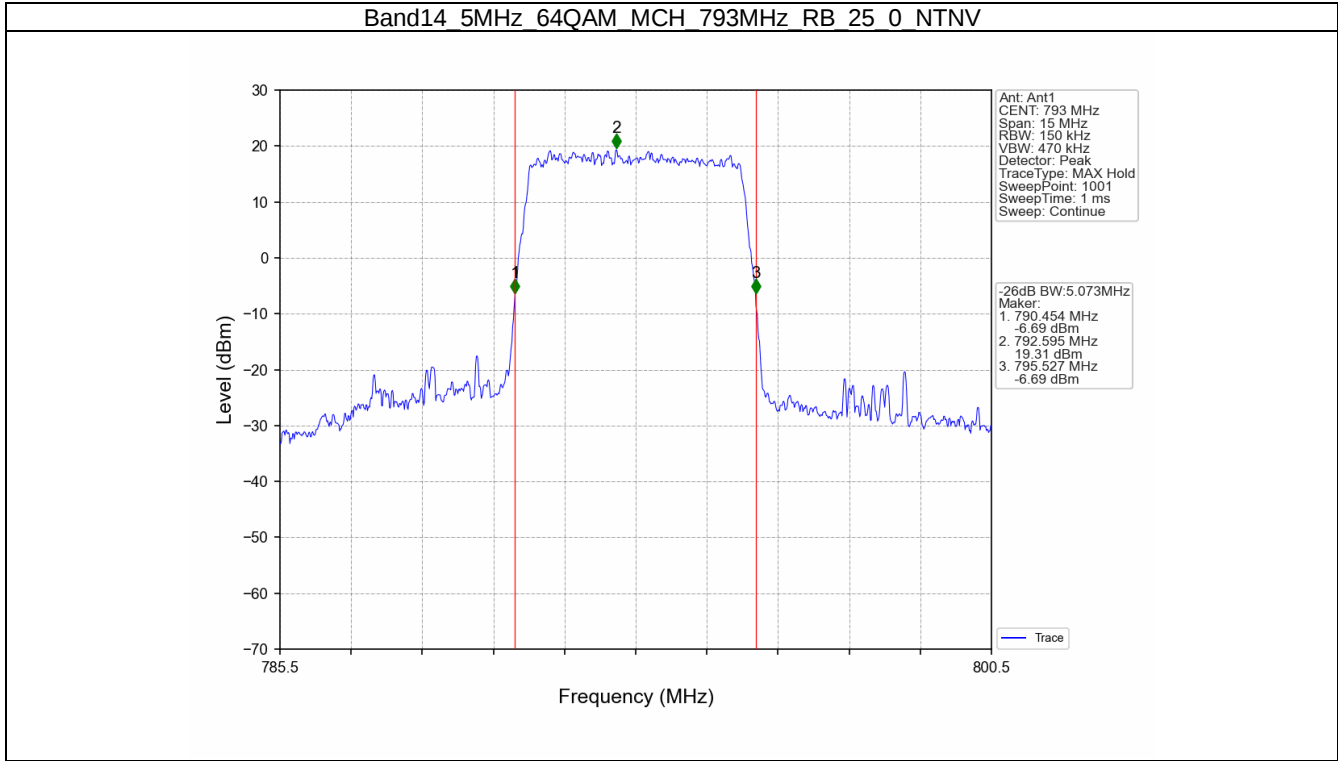
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

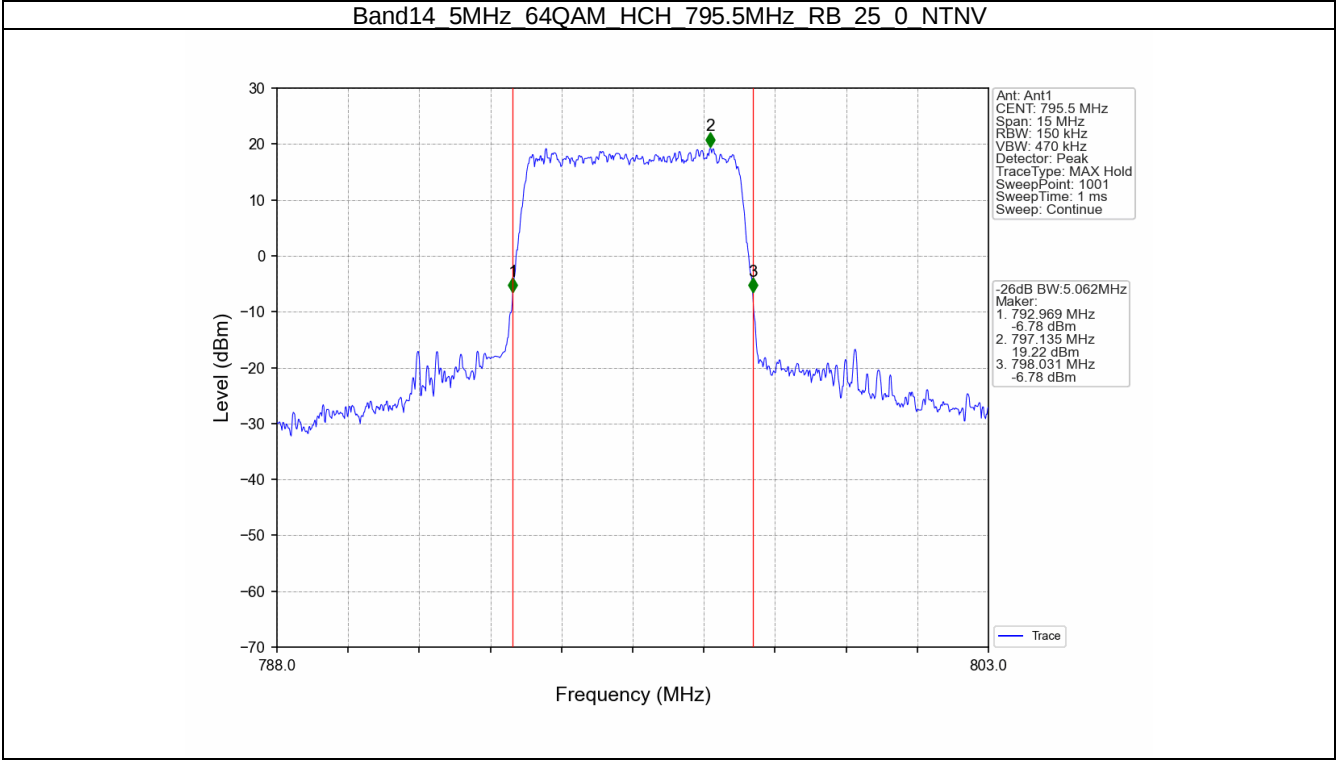
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

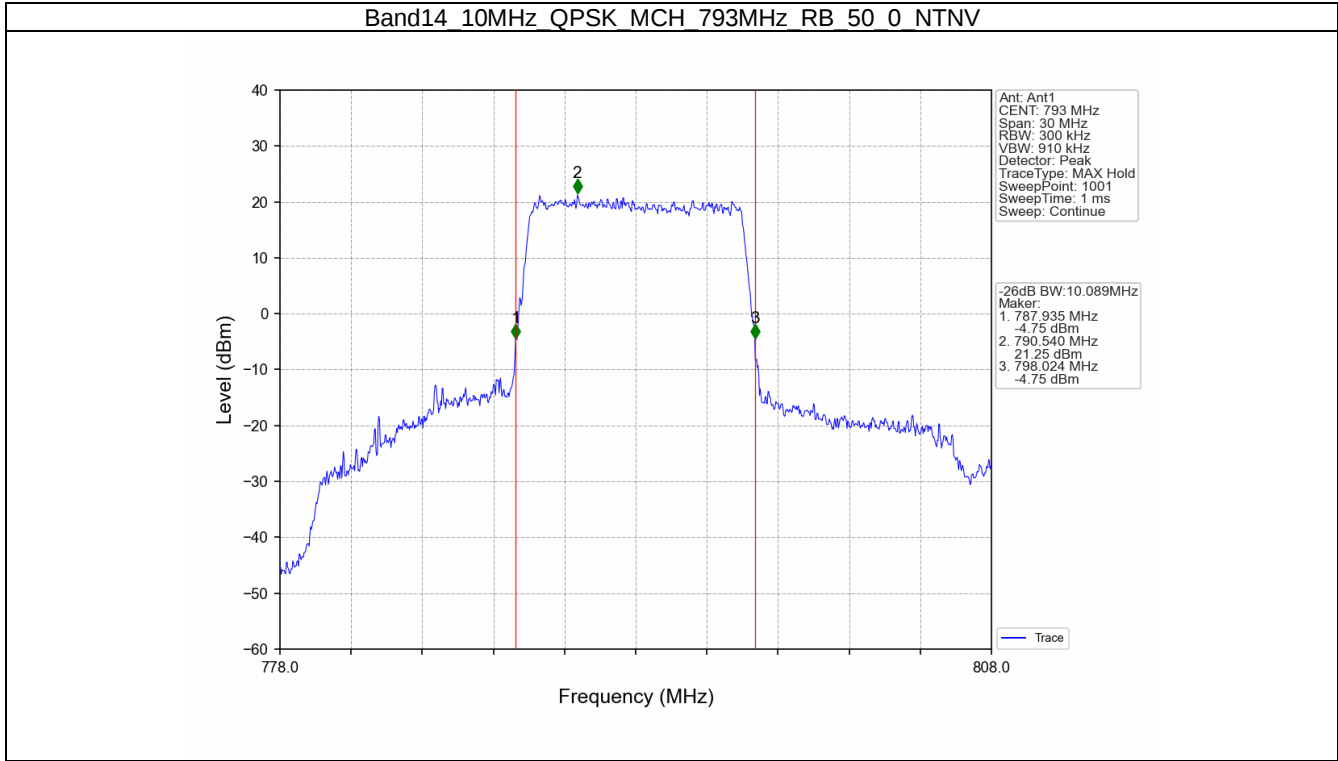
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

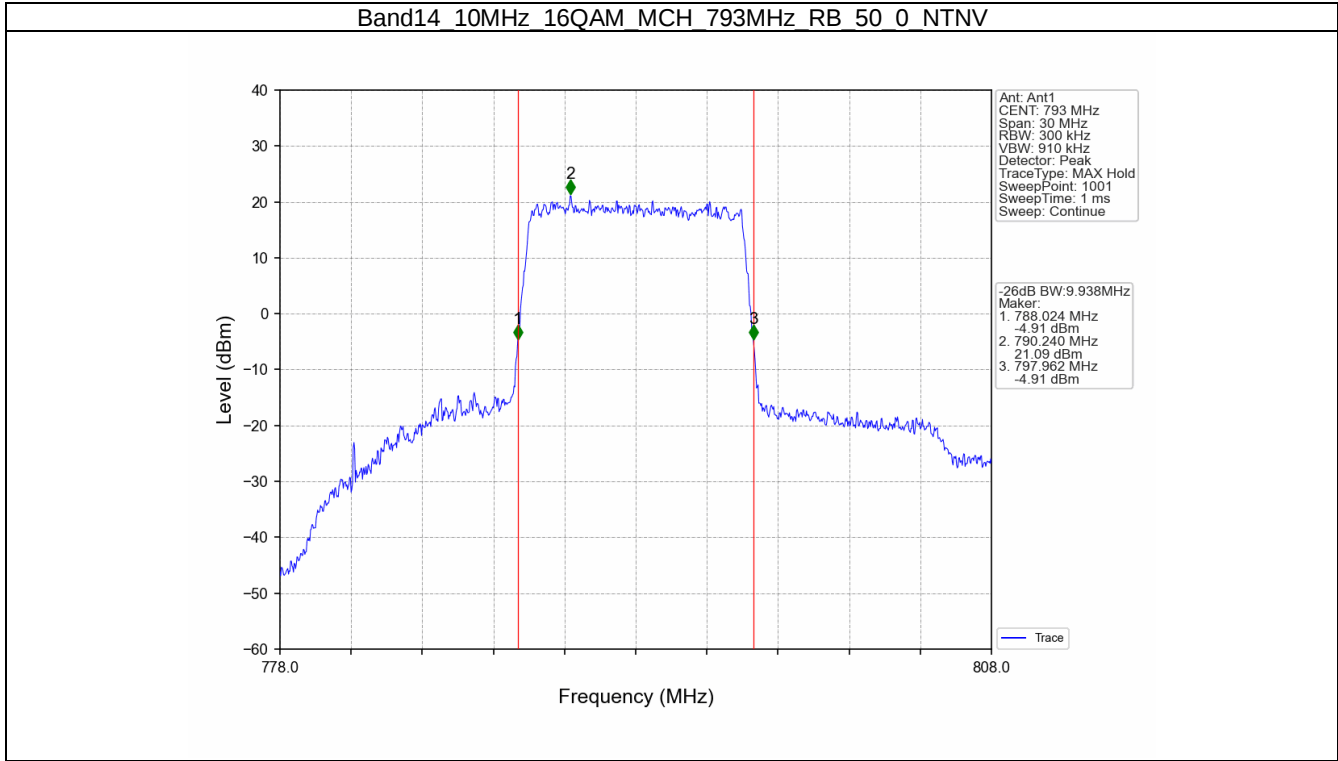
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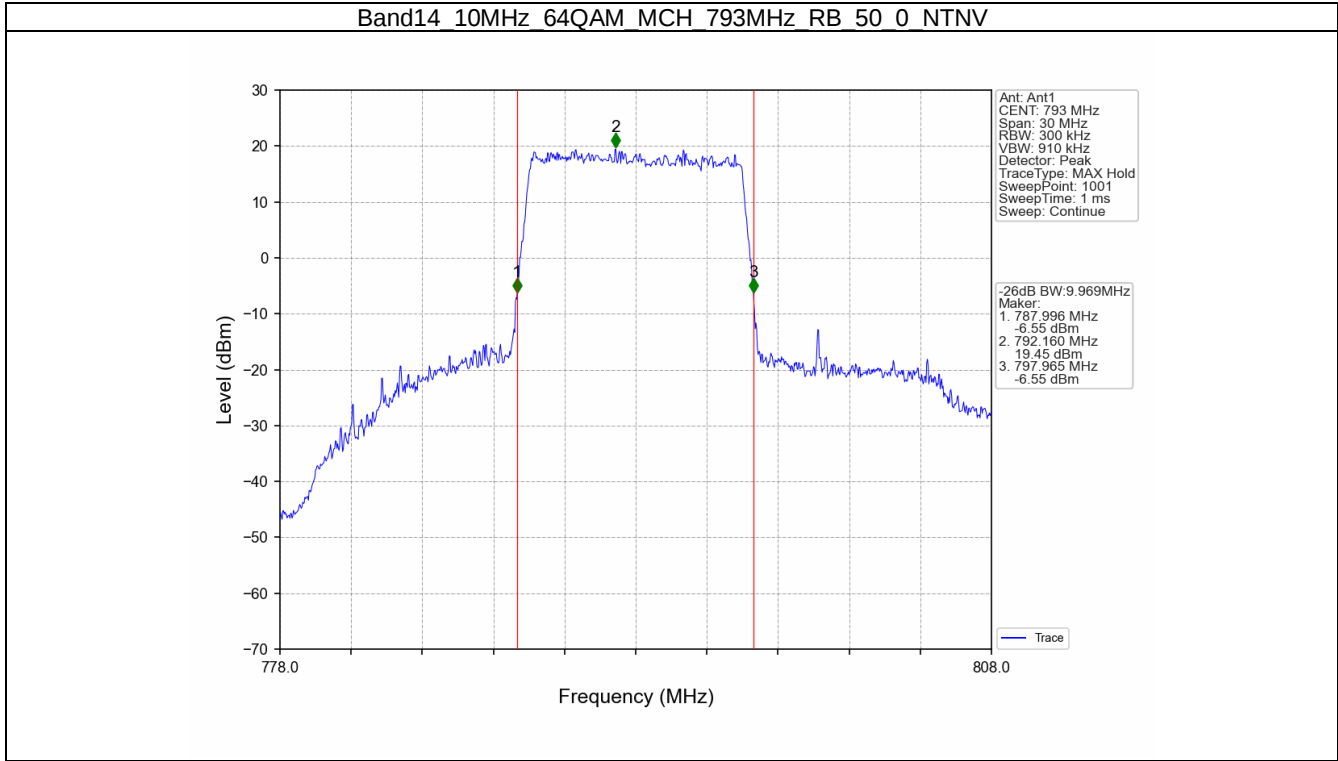




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3. Peak-Average Ratio

3.1 B14_5MHz

3.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	790.5	25	0	5.24	<=13	Pass
	793	25	0	5.32	<=13	Pass
	795.5	25	0	5.39	<=13	Pass
16QAM	790.5	25	0	5.98	<=13	Pass
	793	25	0	6.03	<=13	Pass
	795.5	25	0	6.10	<=13	Pass
64QAM	790.5	25	0	6.52	<=13	Pass
	793	25	0	6.59	<=13	Pass
	795.5	25	0	6.63	<=13	Pass

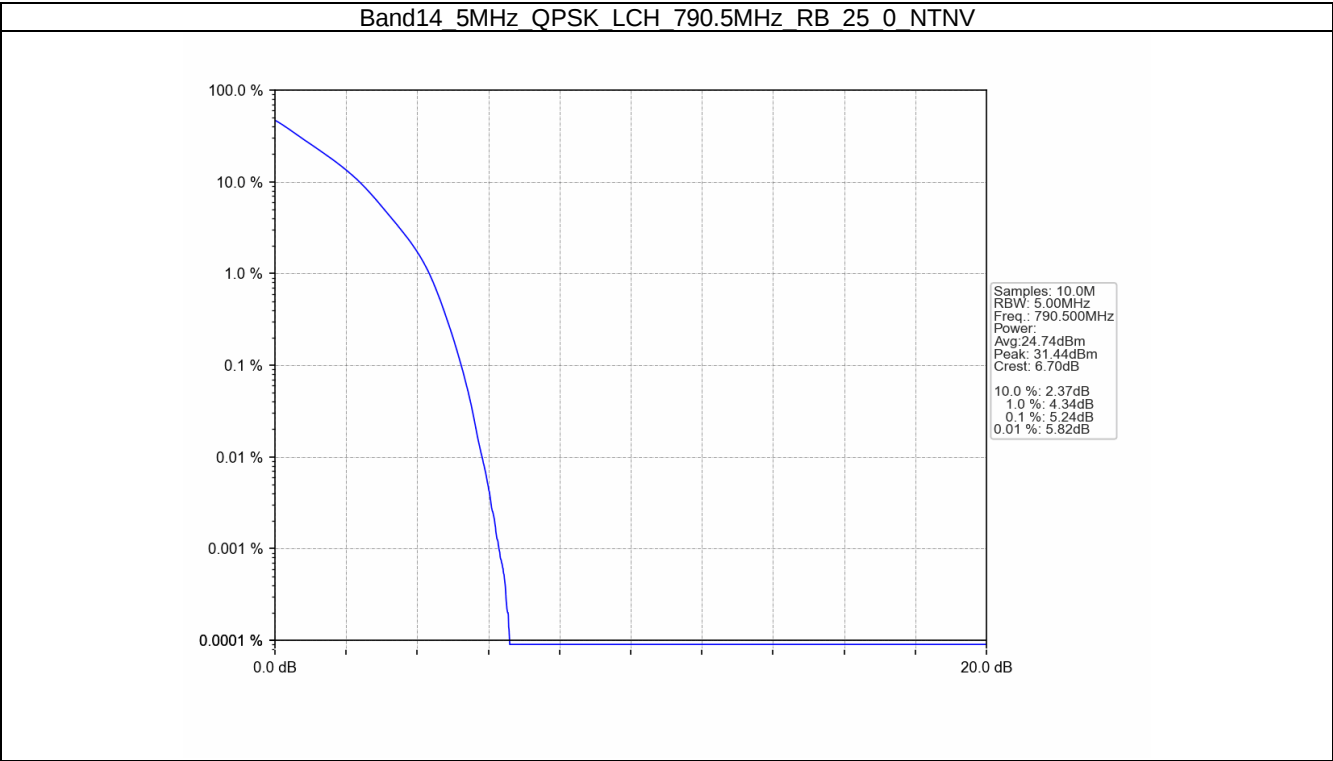


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3.1.2 Test Graph

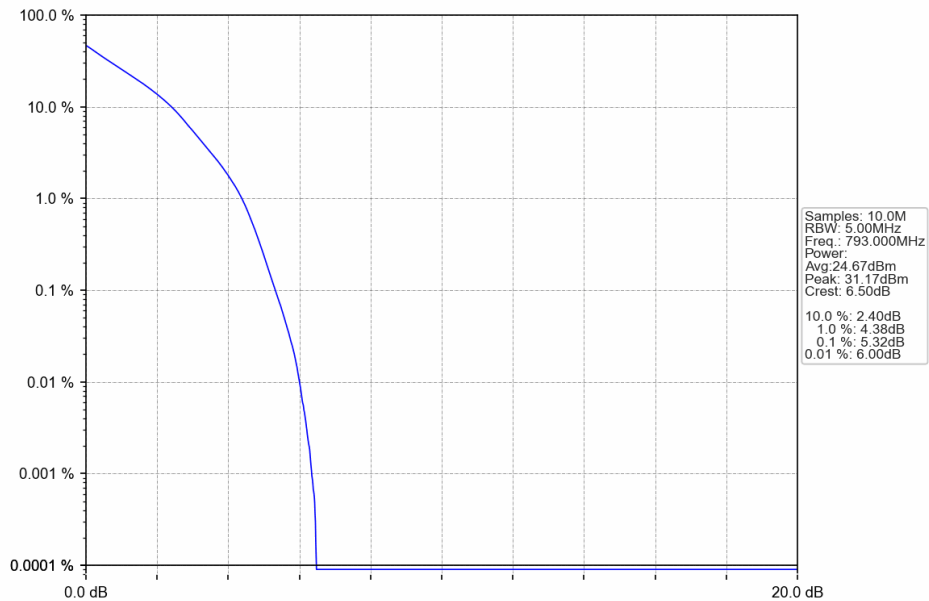




SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Band14 5MHz QPSK MCH 793MHz RB 25 0 NTN



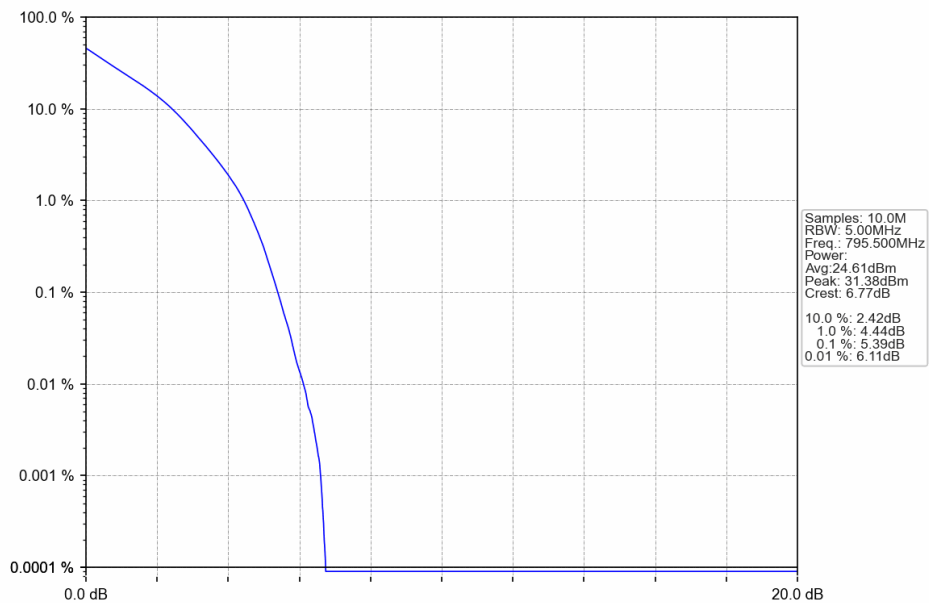


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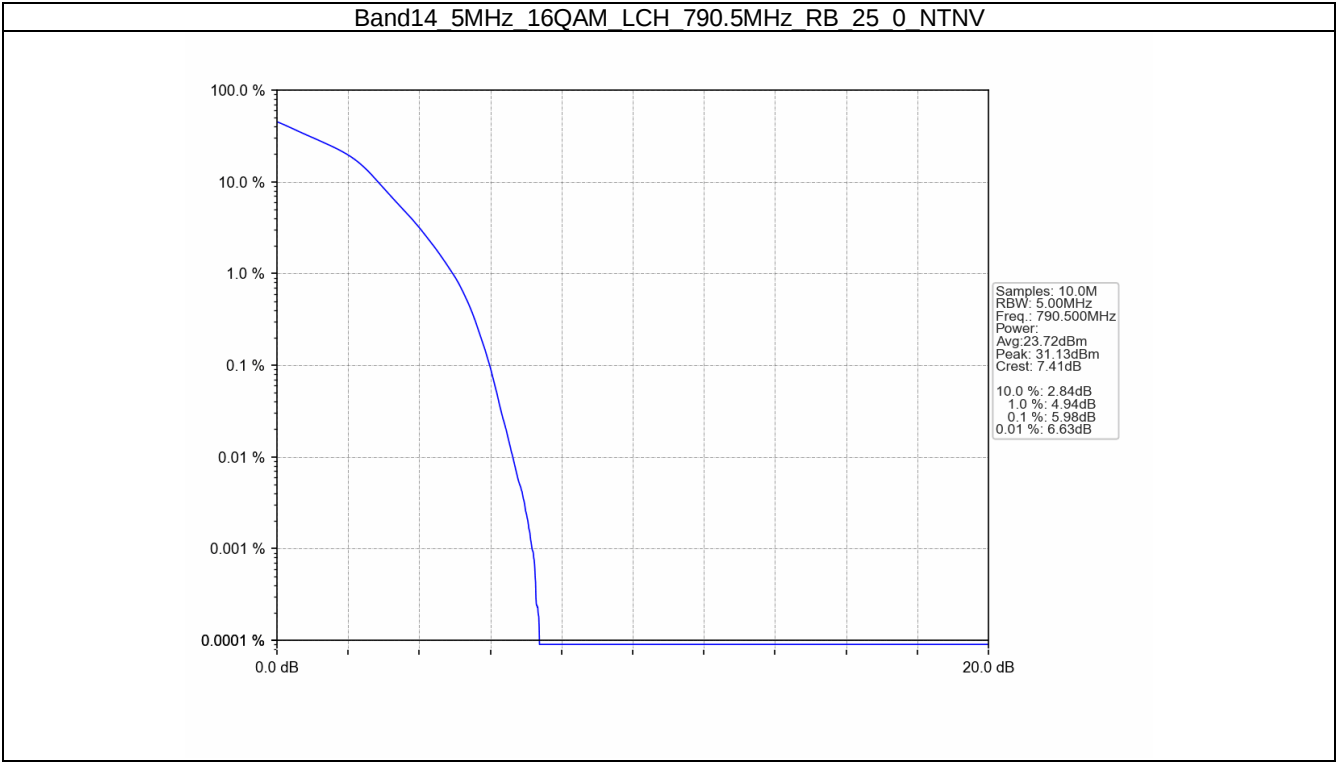
Band14 5MHz QPSK HCH 795.5MHz RB 25 0 NTNV





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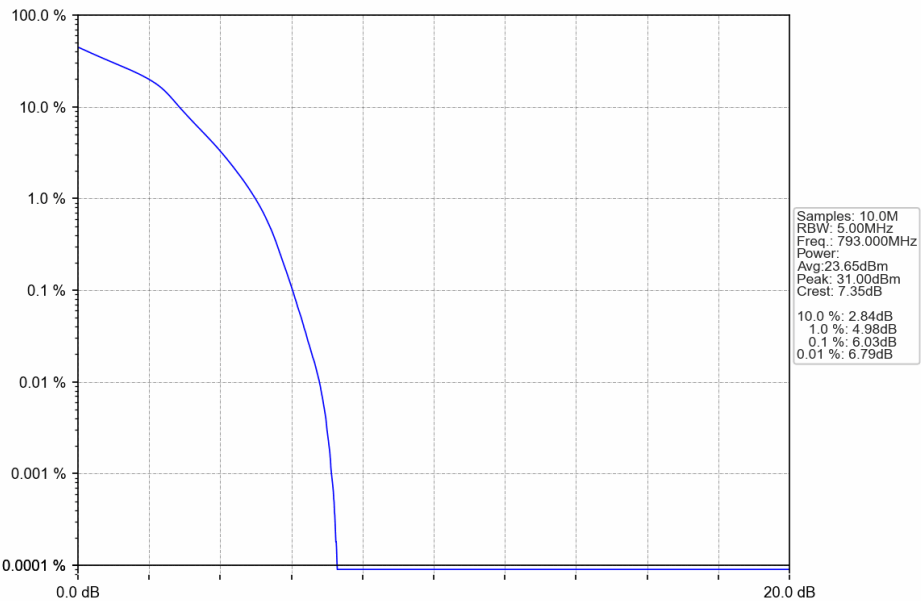




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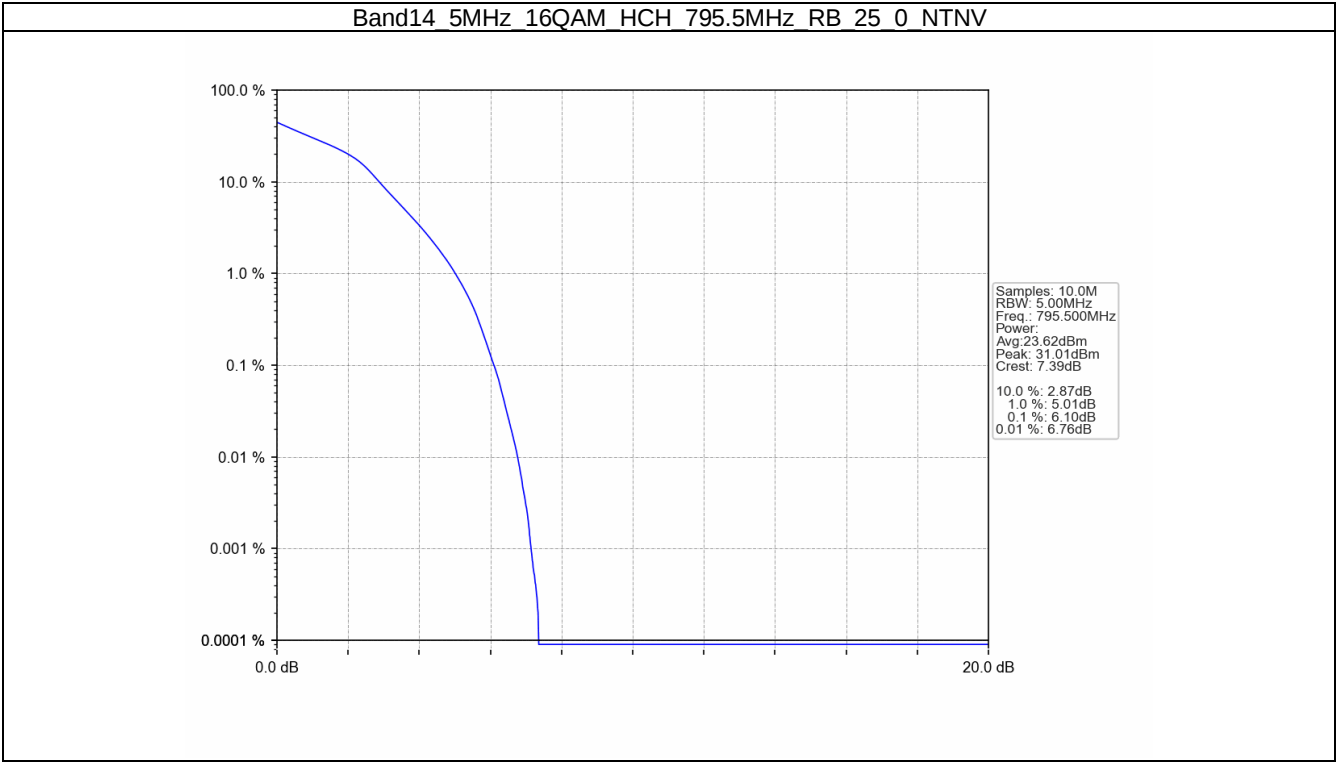
Band14 5MHz 16QAM MCH 793MHz RB 25 0 NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

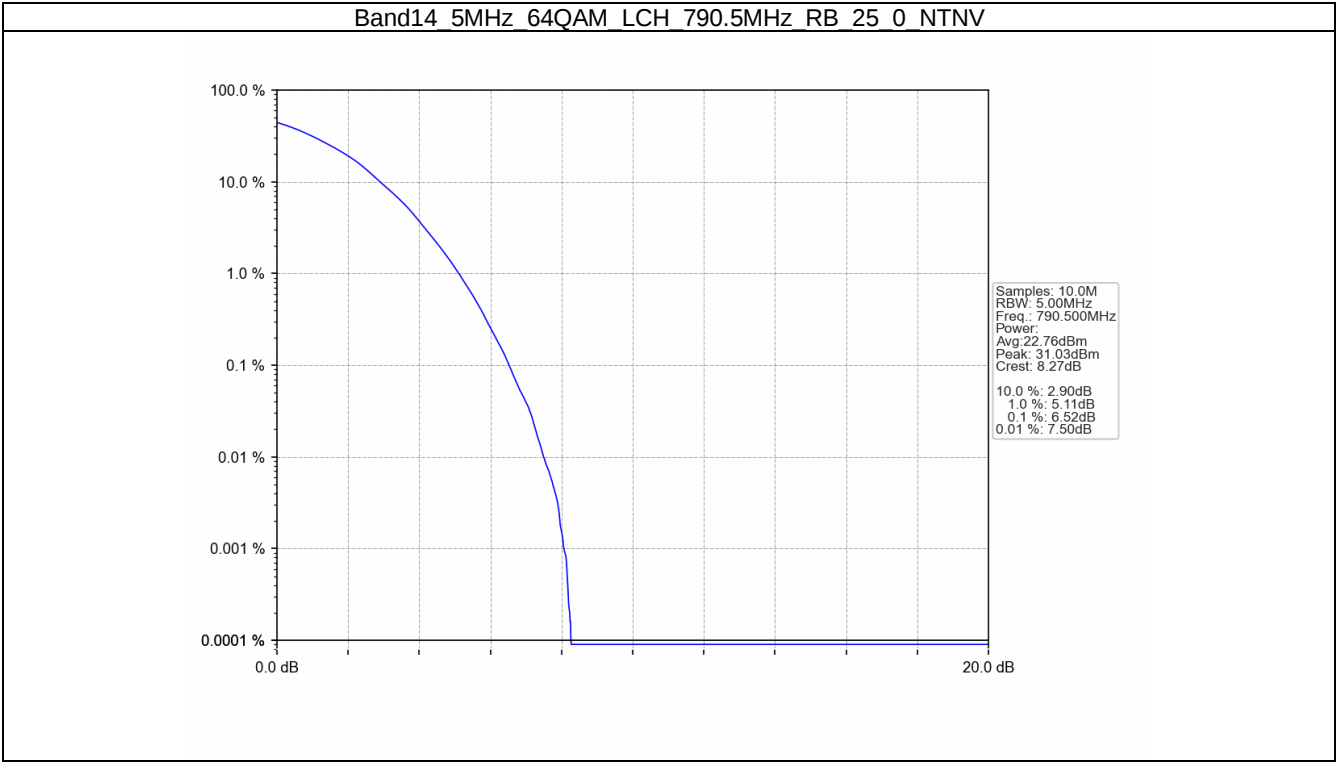
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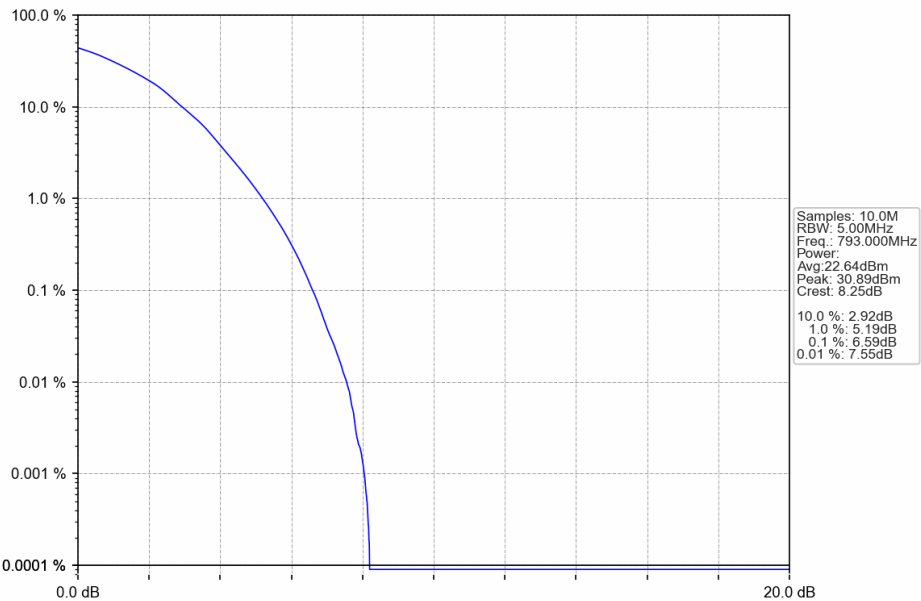




SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Band14 5MHz 64QAM MCH 793MHz RB 25 0 NTNV

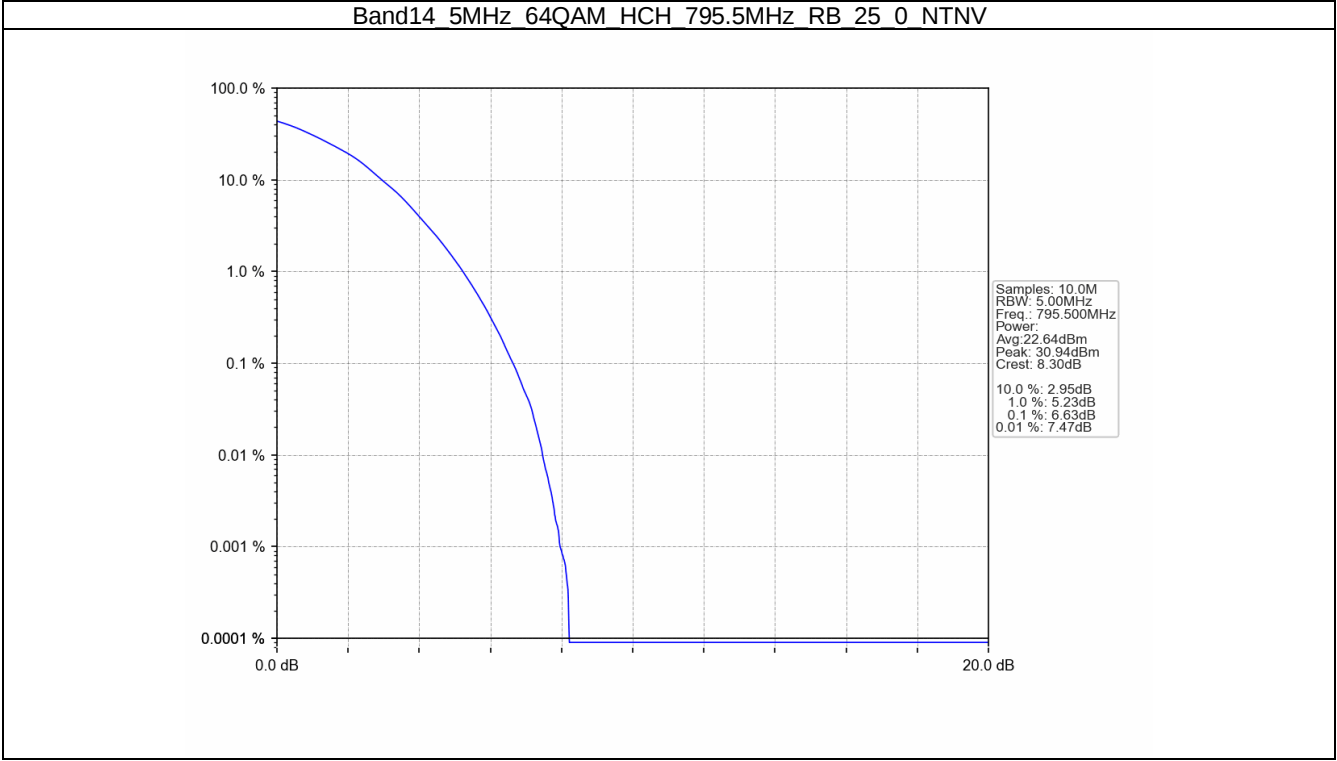




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3.2 B14_10MHz

3.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	793	50	0	5.32	<=13	Pass
16QAM	793	50	0	6.06	<=13	Pass
64QAM	793	50	0	6.58	<=13	Pass

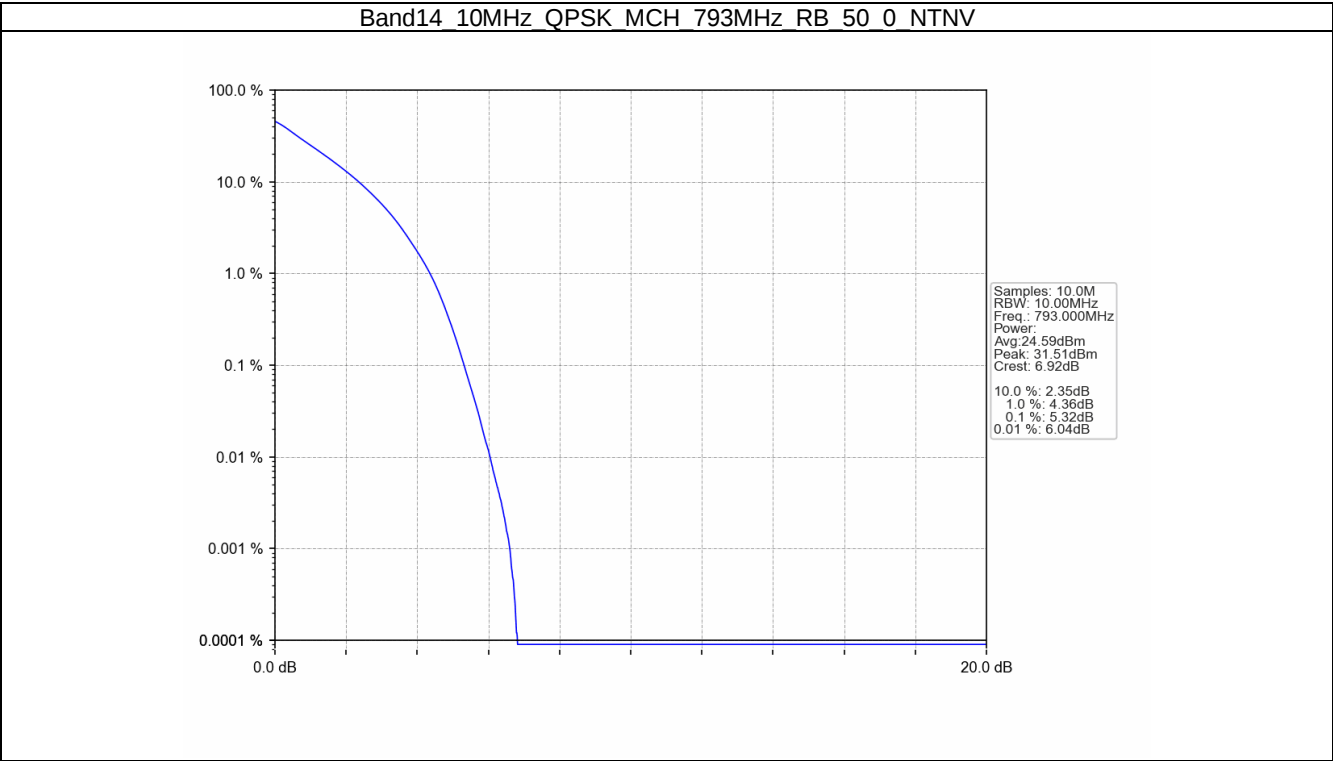


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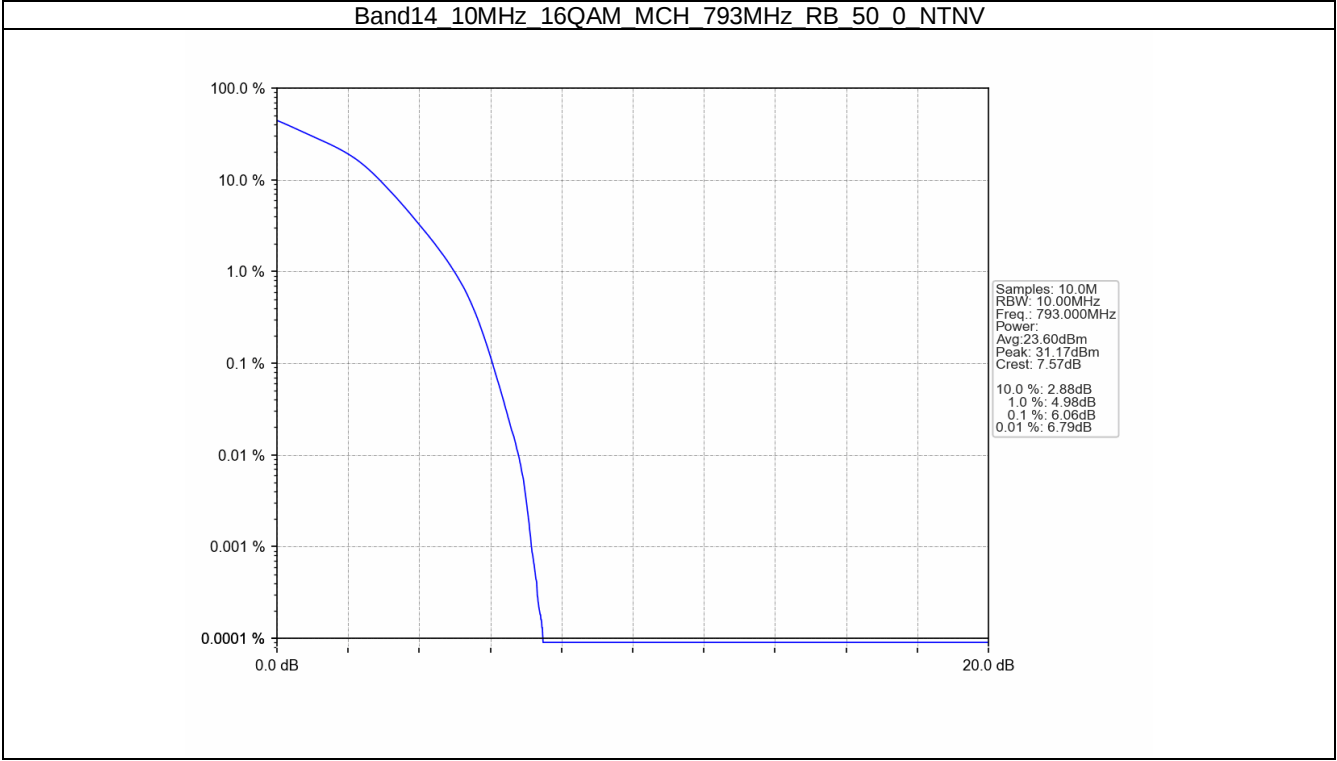
3.2.2 Test Graph





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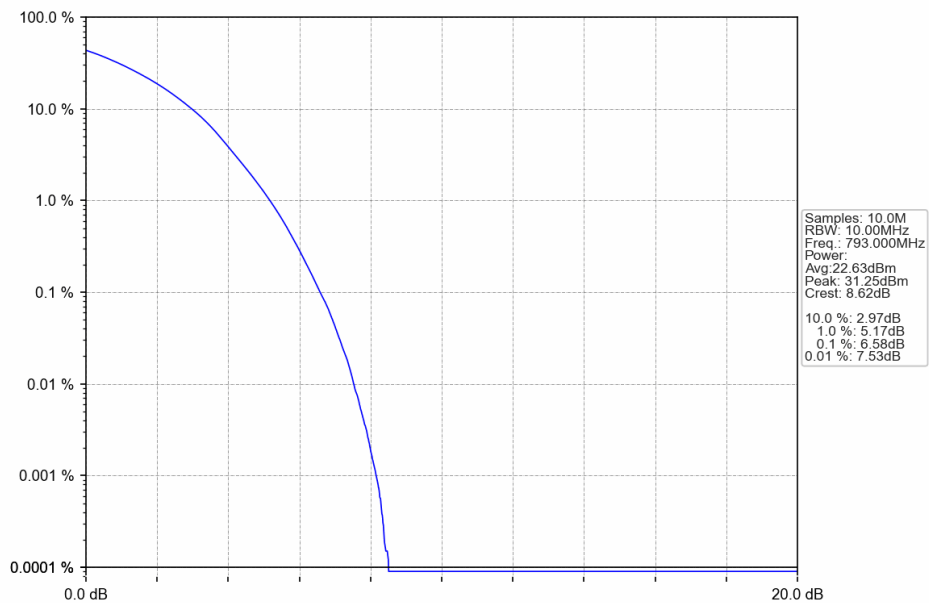




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Band14 10MHz 64QAM MCH 793MHz RB 50 0 NTNV





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4. Spurious Emission & Band Edges

4.1 B14_5MHz

4.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTVN						
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
16QAM	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
64QAM	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

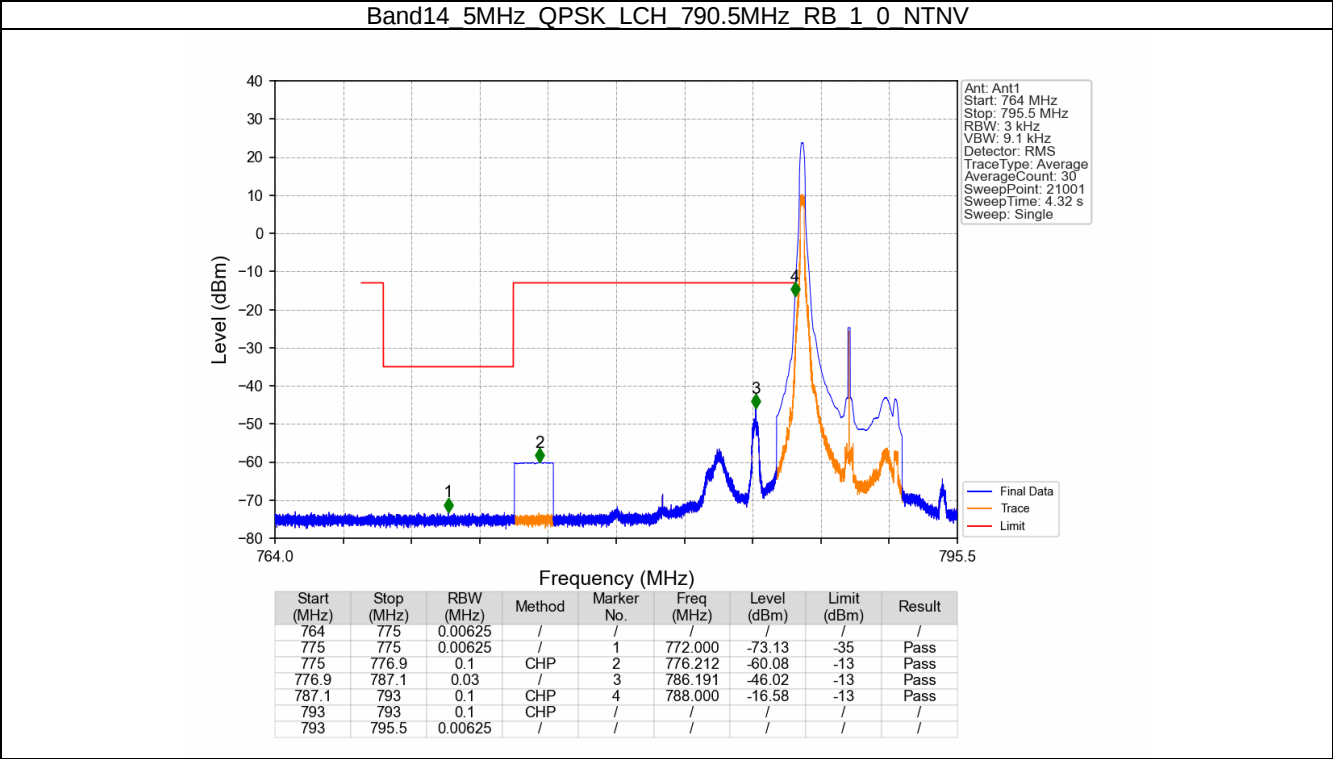


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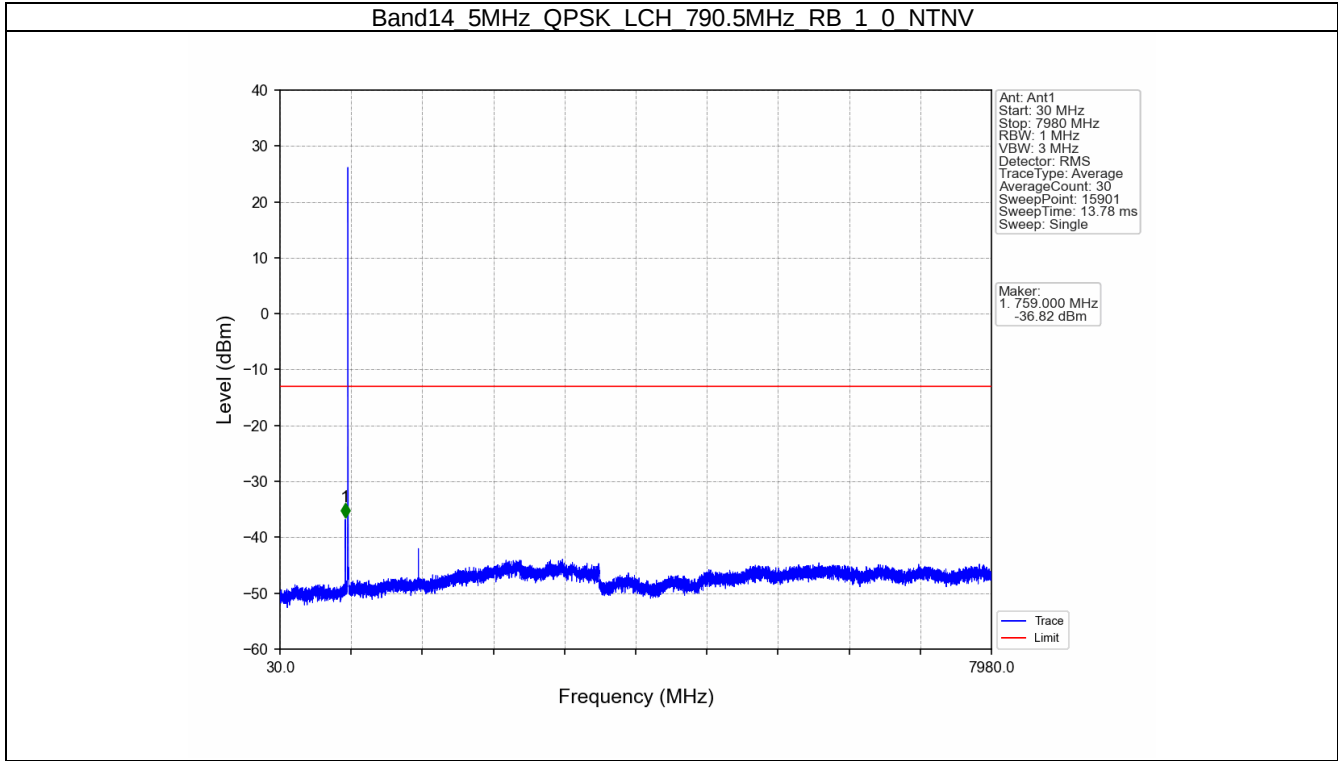
4.1.2 Test Graph





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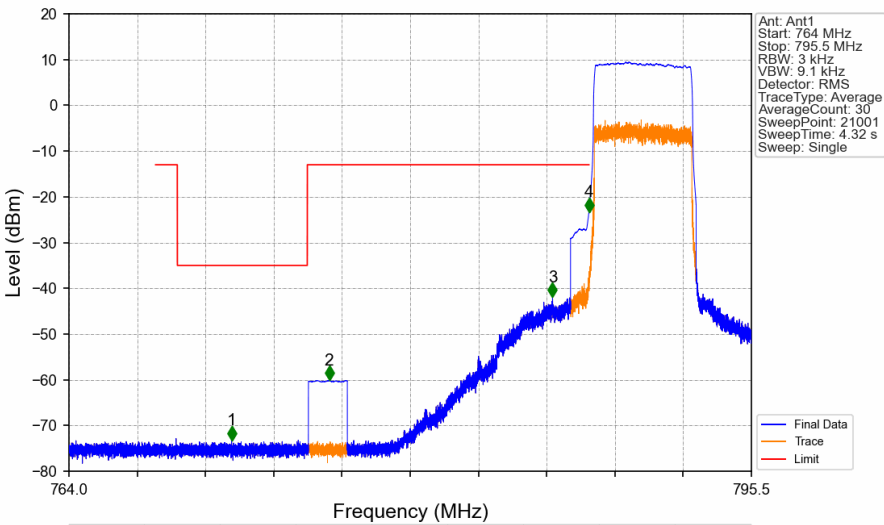


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Band14 5MHz QPSK LCH 790.5MHz RB 25 0 NTV



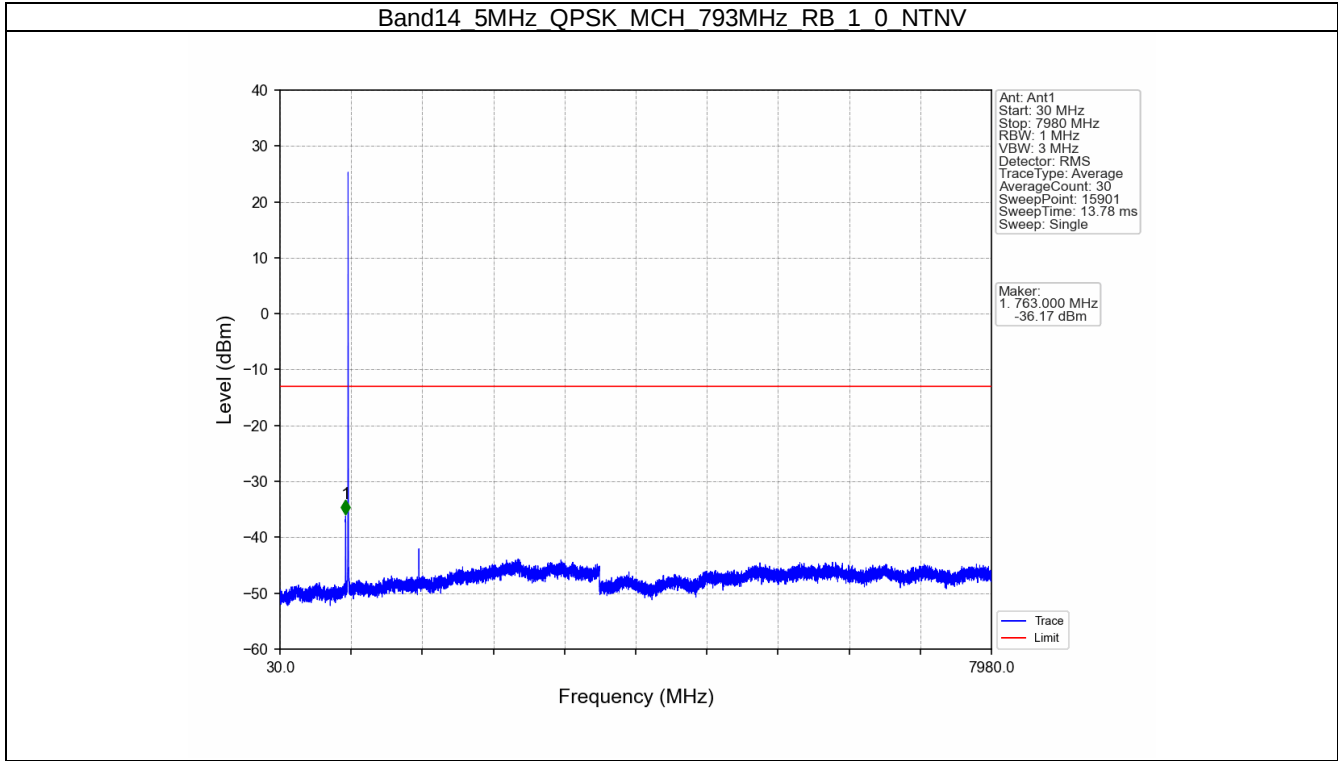
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	/	/	/	/	/
775	775	0.00625	/	1	771.506	-73.21	-35	Pass
775	776.9	0.1	CHP	2	776.009	-60.12	-13	Pass
776.9	787.1	0.03	/	3	786.322	-41.88	-13	Pass
787.1	793	0.1	CHP	4	788.000	-23.31	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	795.5	0.00625	/	/	/	/	/	/



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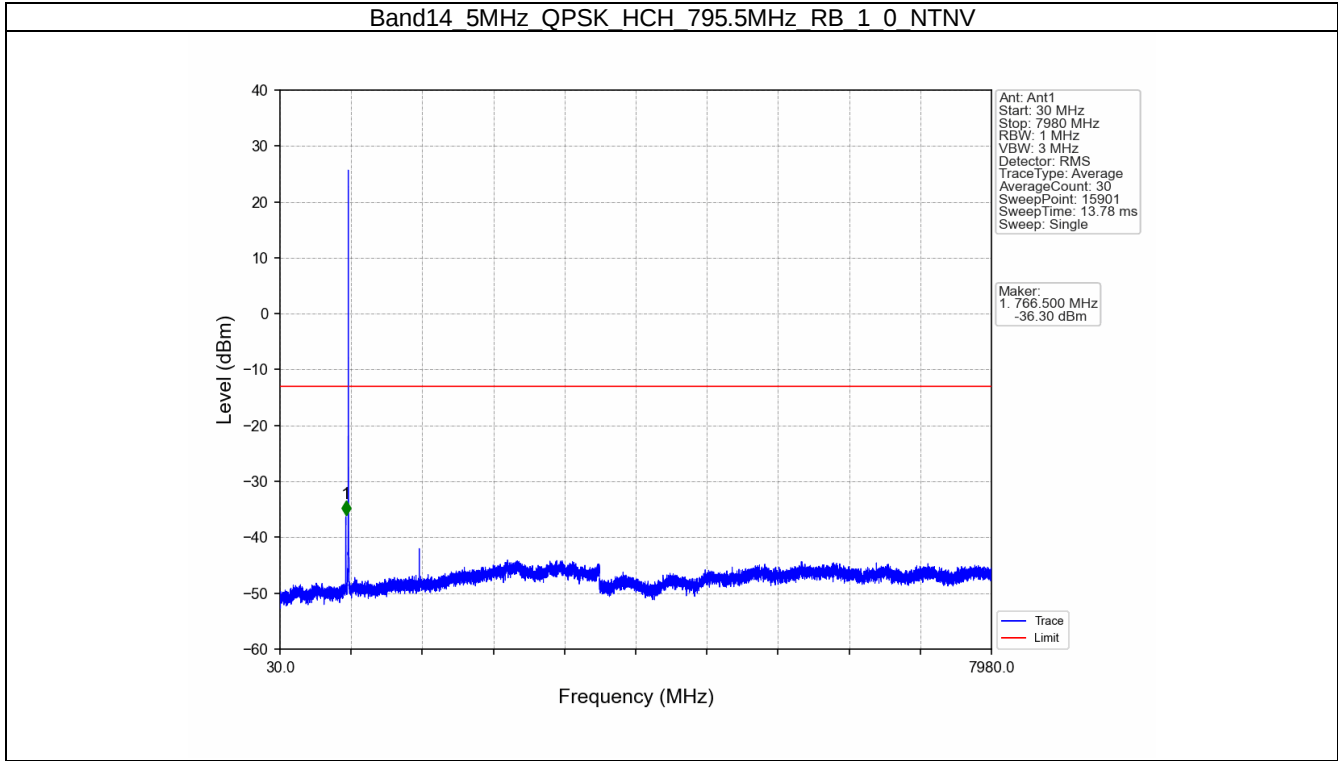
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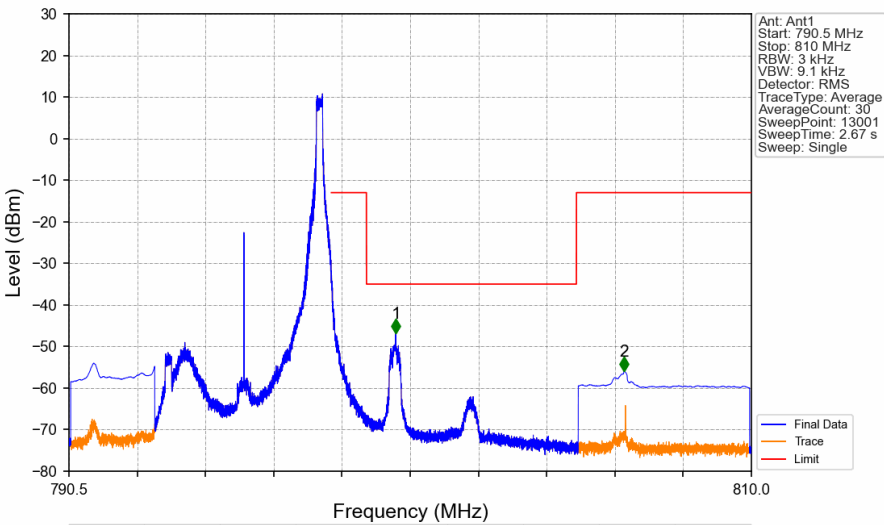




SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

SUWI-TRF-RF A001

Band14 5MHz QPSK HCH 795.5MHz RB 1 24 NTNV



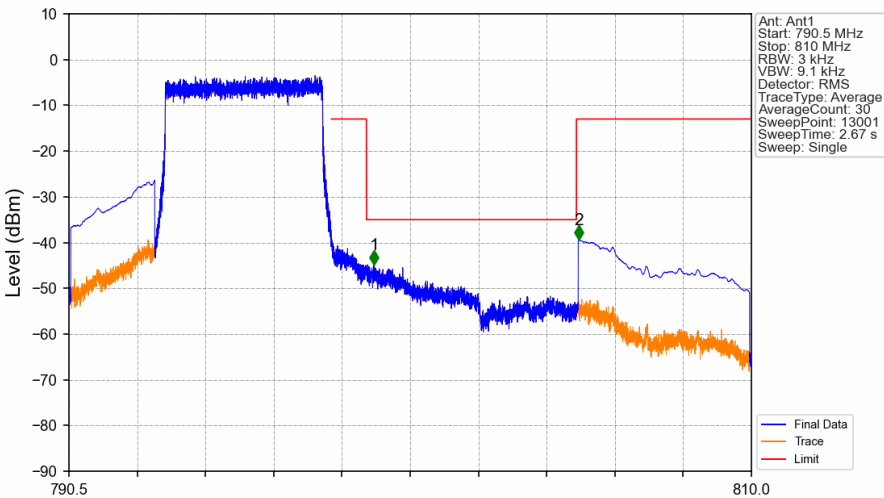
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	1	799.837	-46.89	-35	Pass
805	810	0.1	CHP	2	806.362	-55.92	-13	Pass



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Band14 5MHz QPSK HCH 795.5MHz RB 25 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	1	799.215	-44.83	-35	Pass
805	810	0.1	CHP	2	805.077	-39.45	-13	Pass

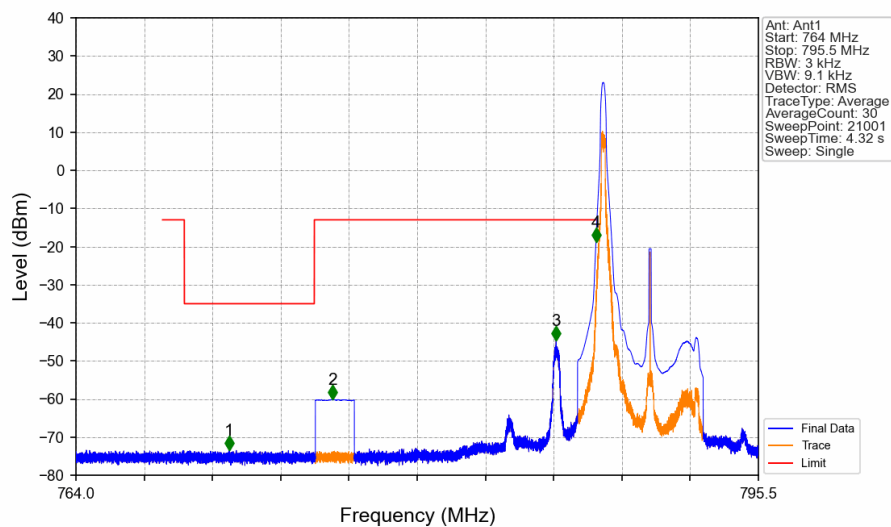


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Band14 5MHz 16QAM LCH 790.5MHz RB 1 0 NTV

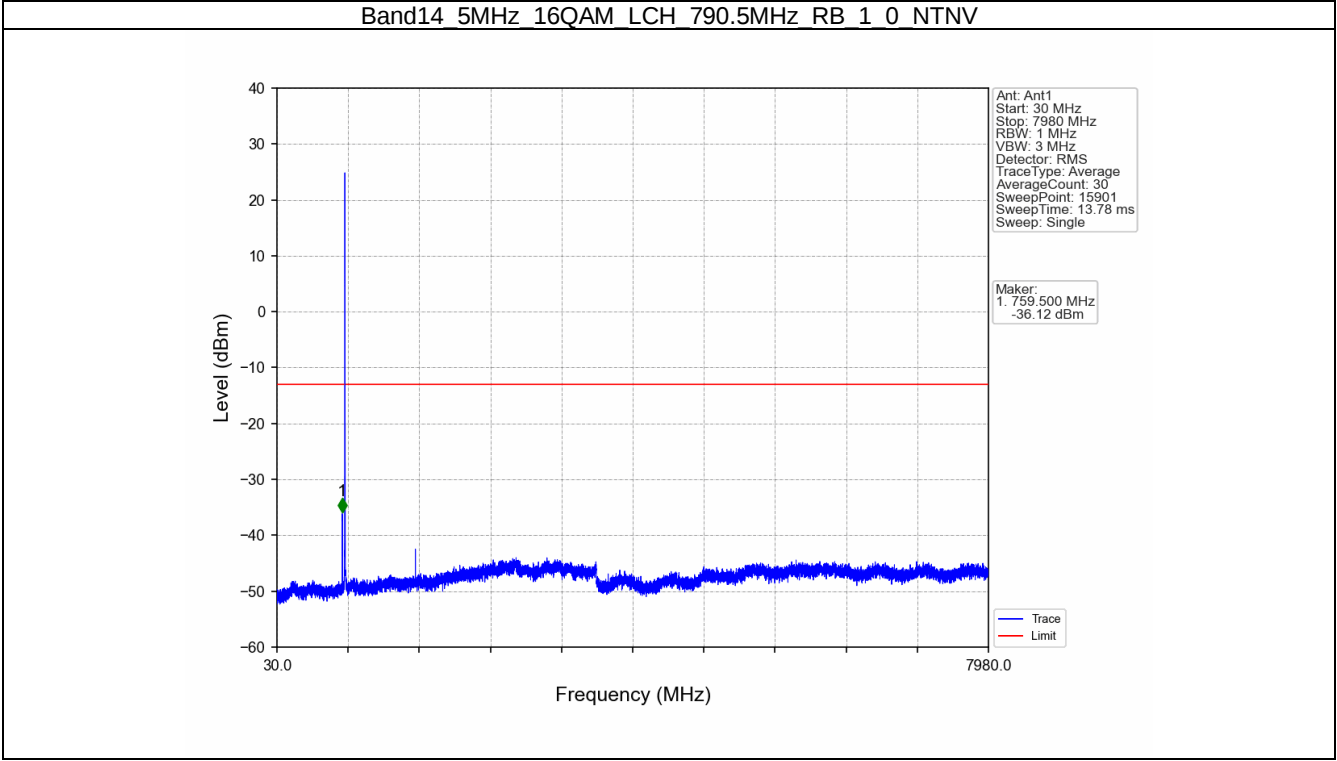


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	/	/	/	/	/
775	775	0.00625	/	1	771.074	-73.50	-35	Pass
775	776.9	0.1	CHP	2	775.831	-60.14	-13	Pass
776.9	787.1	0.03	/	3	786.164	-44.69	-13	Pass
787.1	793	0.1	CHP	4	788.000	-18.79	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	795.5	0.00625	/	/	/	/	/	/



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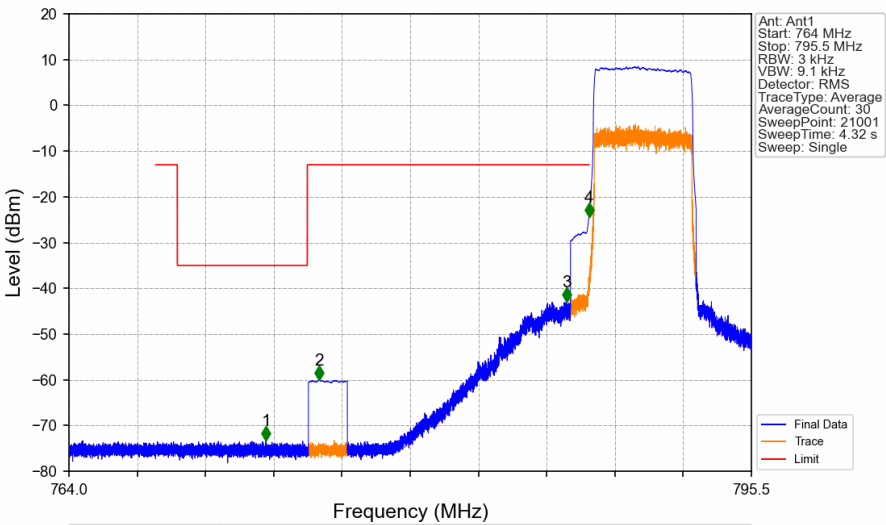


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Band14 5MHz 16QAM LCH 790.5MHz RB 25 0 NTNV

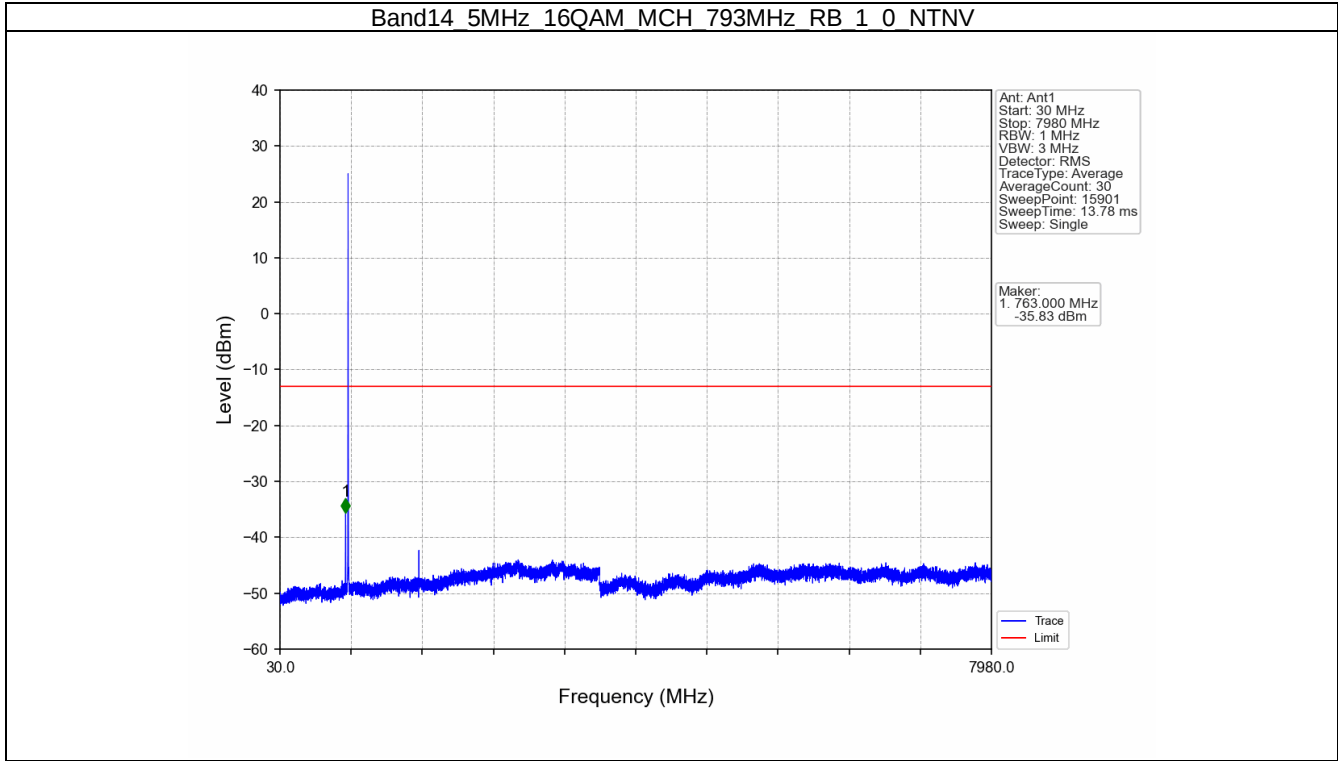


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	/	/	/	/	/
775	775	0.00625	/	1	773.088	-73.36	-35	Pass
775	776.9	0.1	CHP	2	775.545	-60.09	-13	Pass
776.9	787.1	0.03	/	3	786.981	-43.02	-13	Pass
787.1	793	0.1	CHP	4	788.000	-24.45	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	795.5	0.00625	/	/	/	/	/	/



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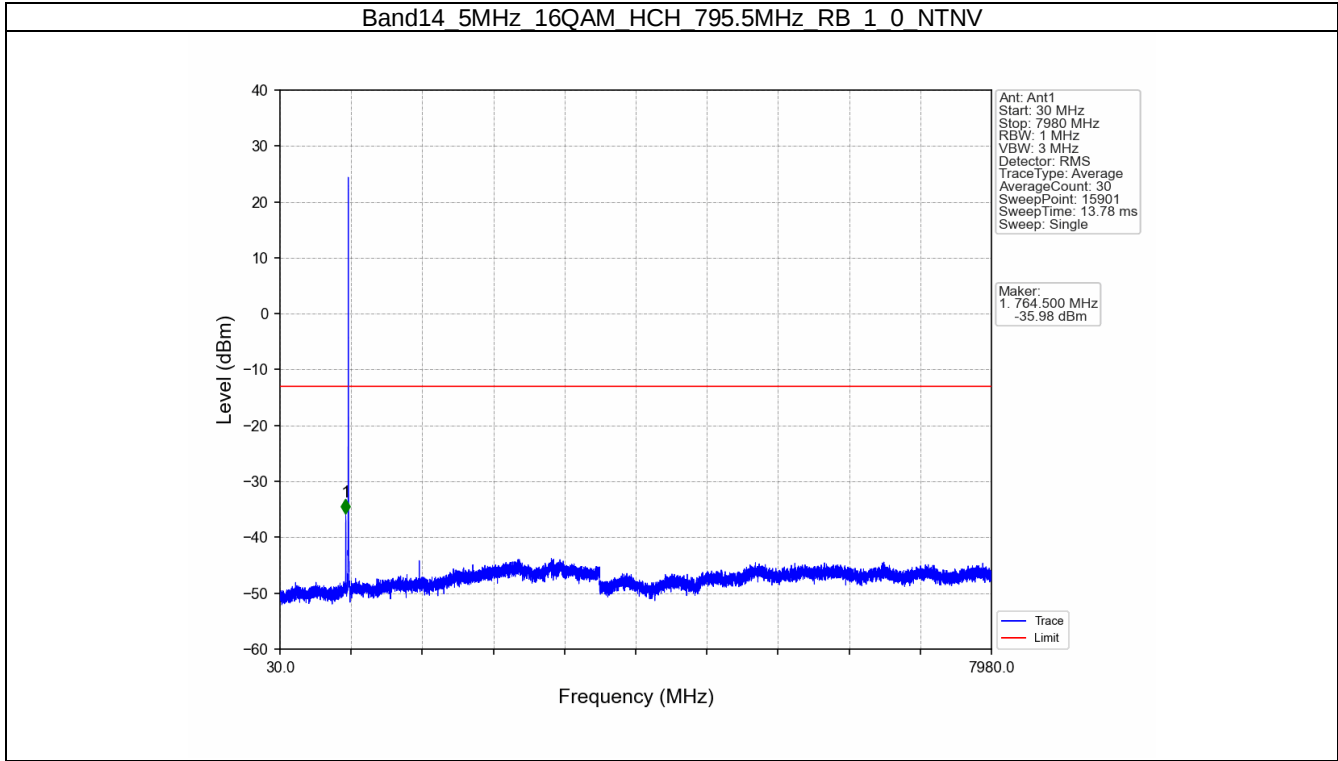
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SUWI-TRF-RF A001

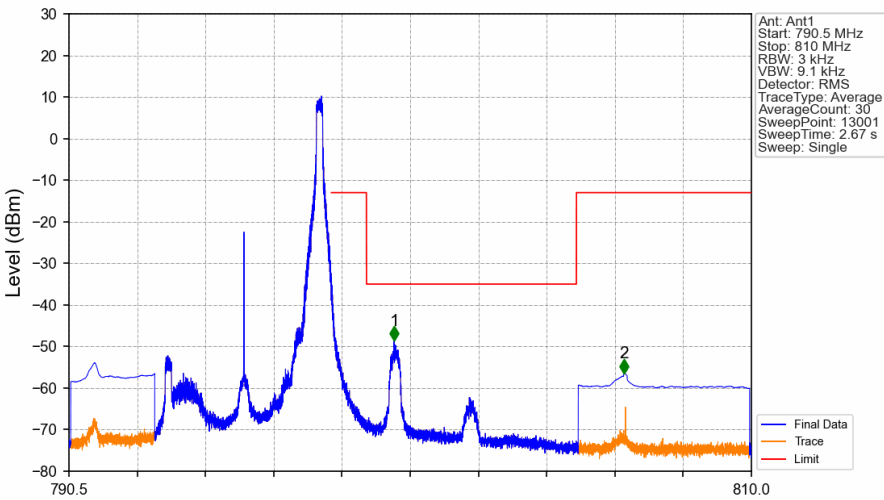




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Band14 5MHz 16QAM HCH 795.5MHz RB 1 24 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	1	799.791	-48.59	-35	Pass
805	810	0.1	CHP	2	806.369	-56.43	-13	Pass

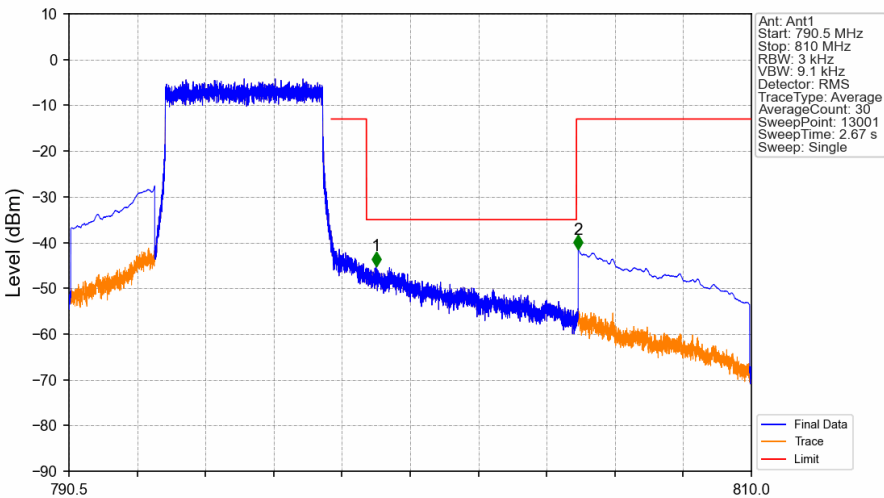


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Band14 5MHz 16QAM HCH 795.5MHz RB 25 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	1	799.274	-45.11	-35	Pass
805	810	0.1	CHP	2	805.052	-41.56	-13	Pass

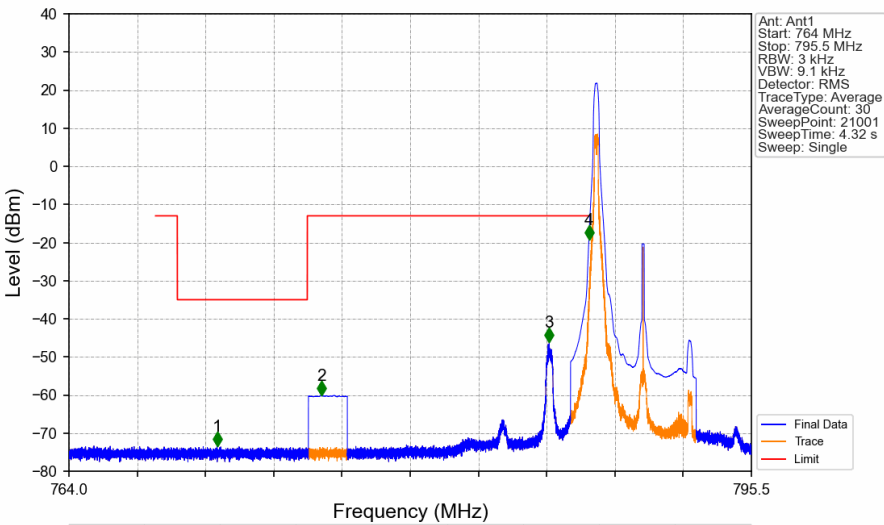


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Band14 5MHz 64QAM LCH 790.5MHz RB 1 0 NTV

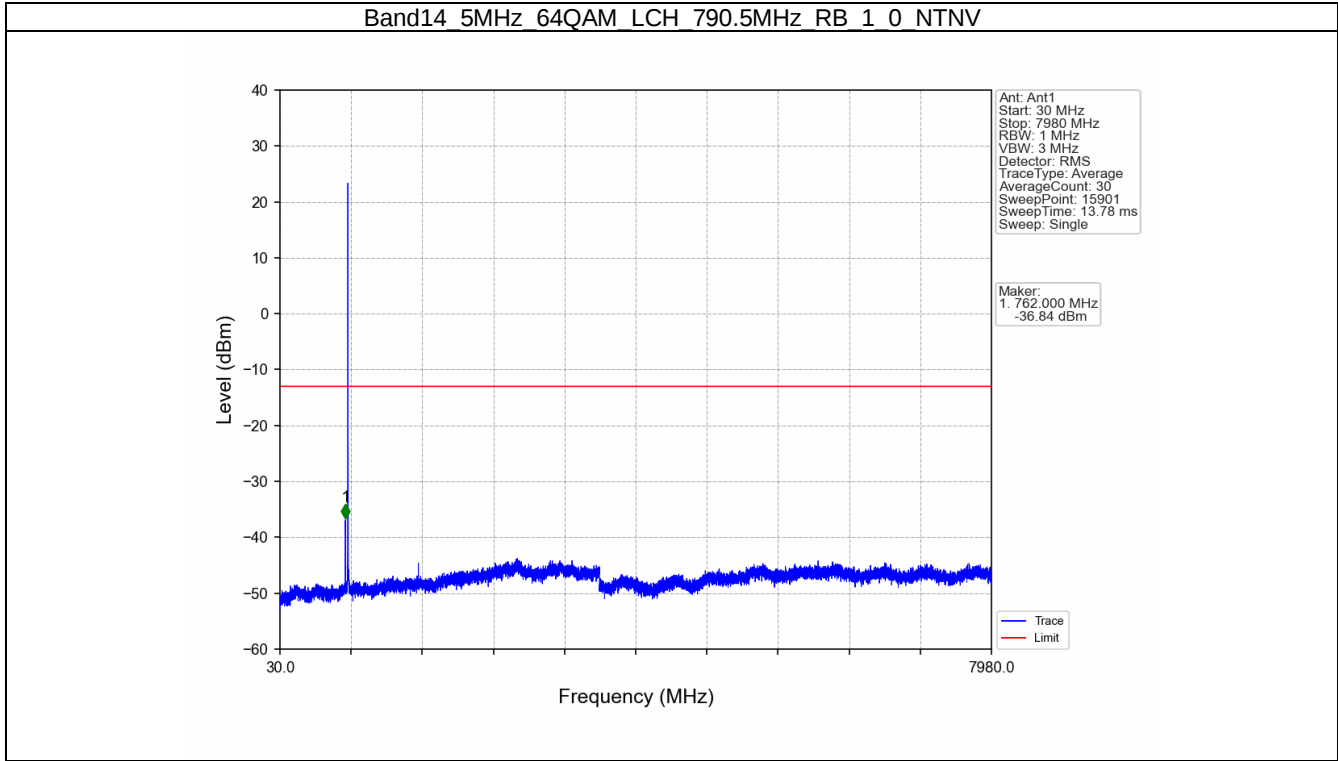


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	/	/	/	/	/
775	775	0.00625	/	1	770.836	-73.50	-35	Pass
775	776.9	0.1	CHP	2	775.670	-60.11	-13	Pass
776.9	787.1	0.03	/	3	786.170	-46.11	-13	Pass
787.1	793	0.1	CHP	4	788.000	-19.24	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	795.5	0.00625	/	/	/	/	/	/



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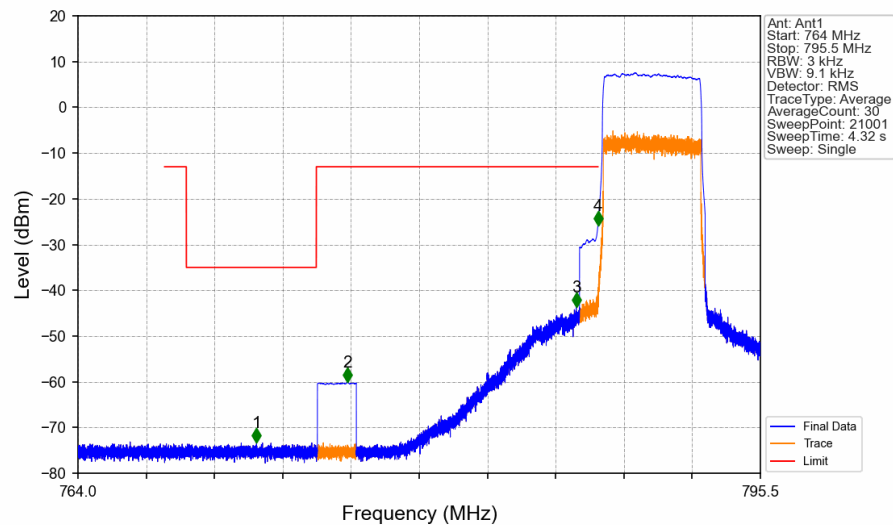


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Band14 5MHz 64QAM LCH 790.5MHz RB 25 0 NTNV



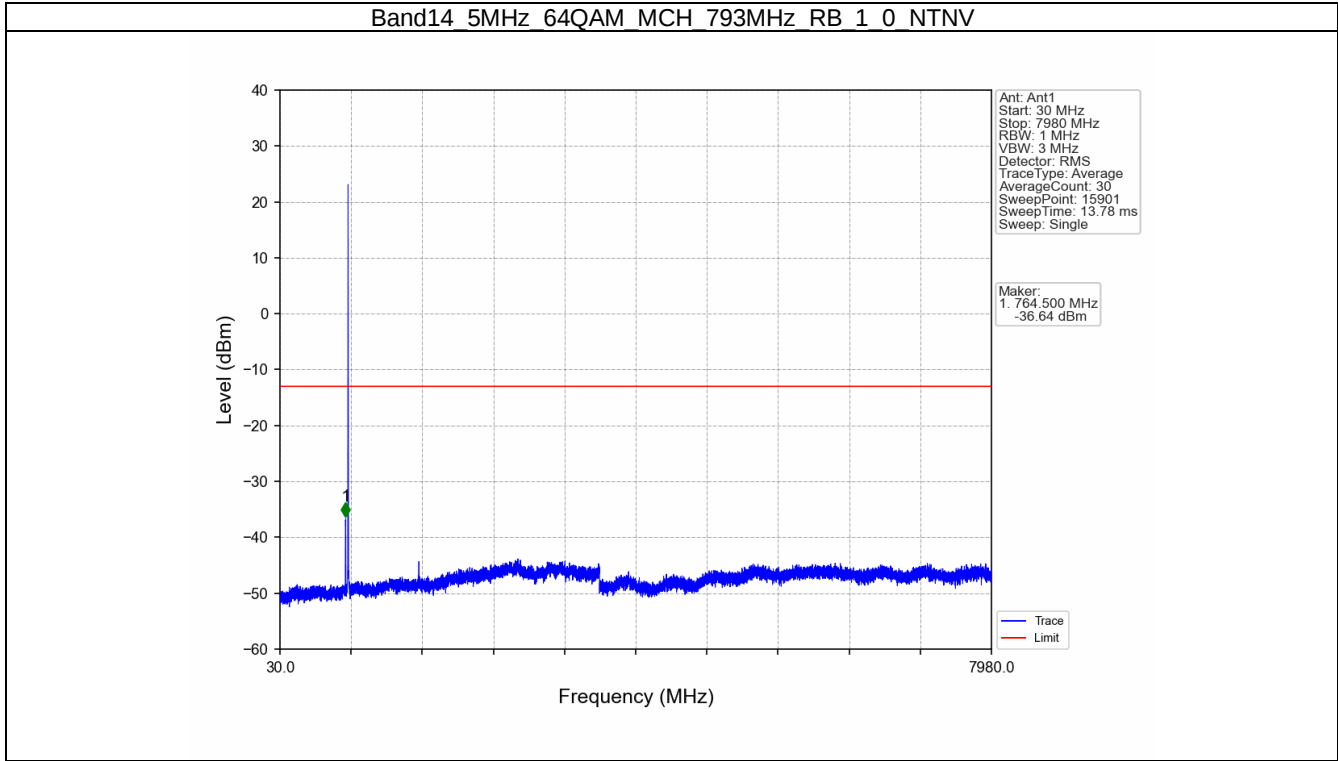
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	/	/	/	/	/
775	775	0.00625	/	1	772.244	-73.30	-35	Pass
775	776.9	0.1	CHP	2	776.432	-60.09	-13	Pass
776.9	787.1	0.03	/	3	786.998	-43.66	-13	Pass
787.1	793	0.1	CHP	4	788.000	-25.92	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	795.5	0.00625	/	/	/	/	/	/



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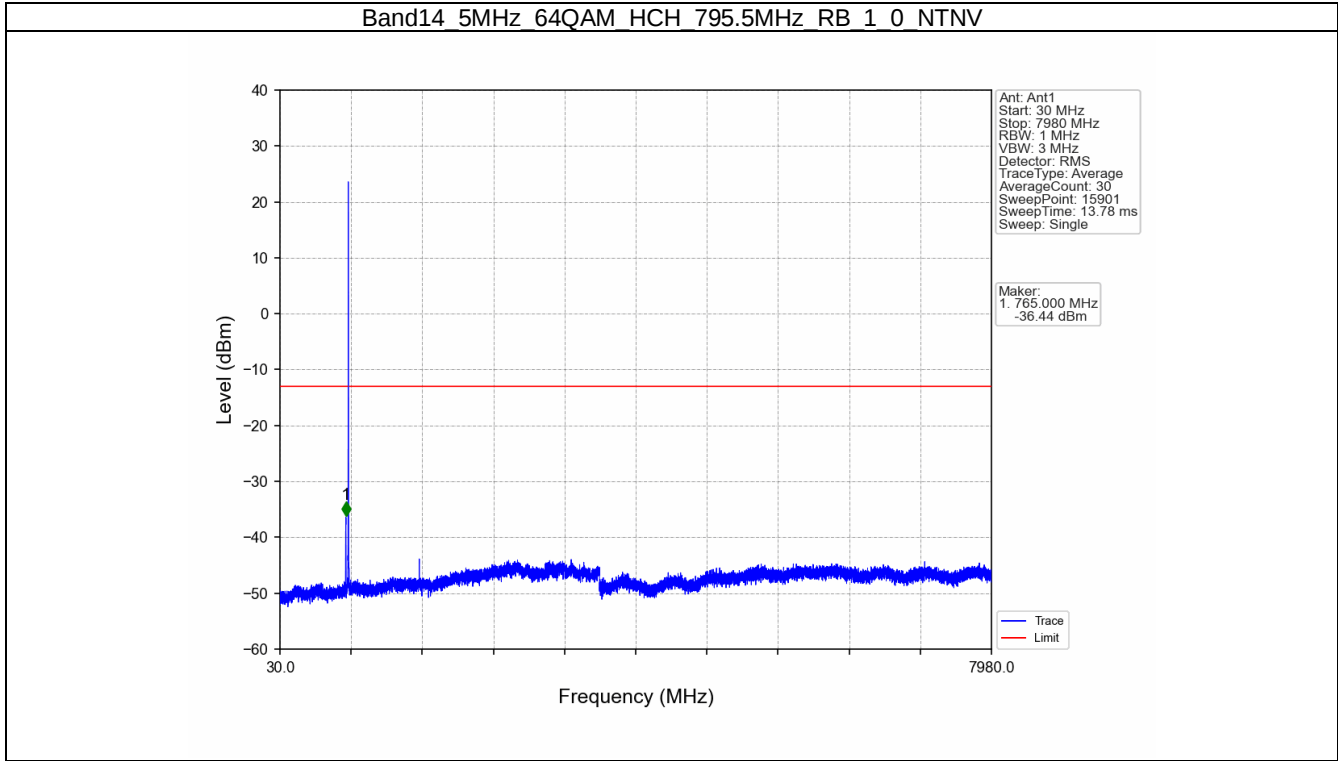




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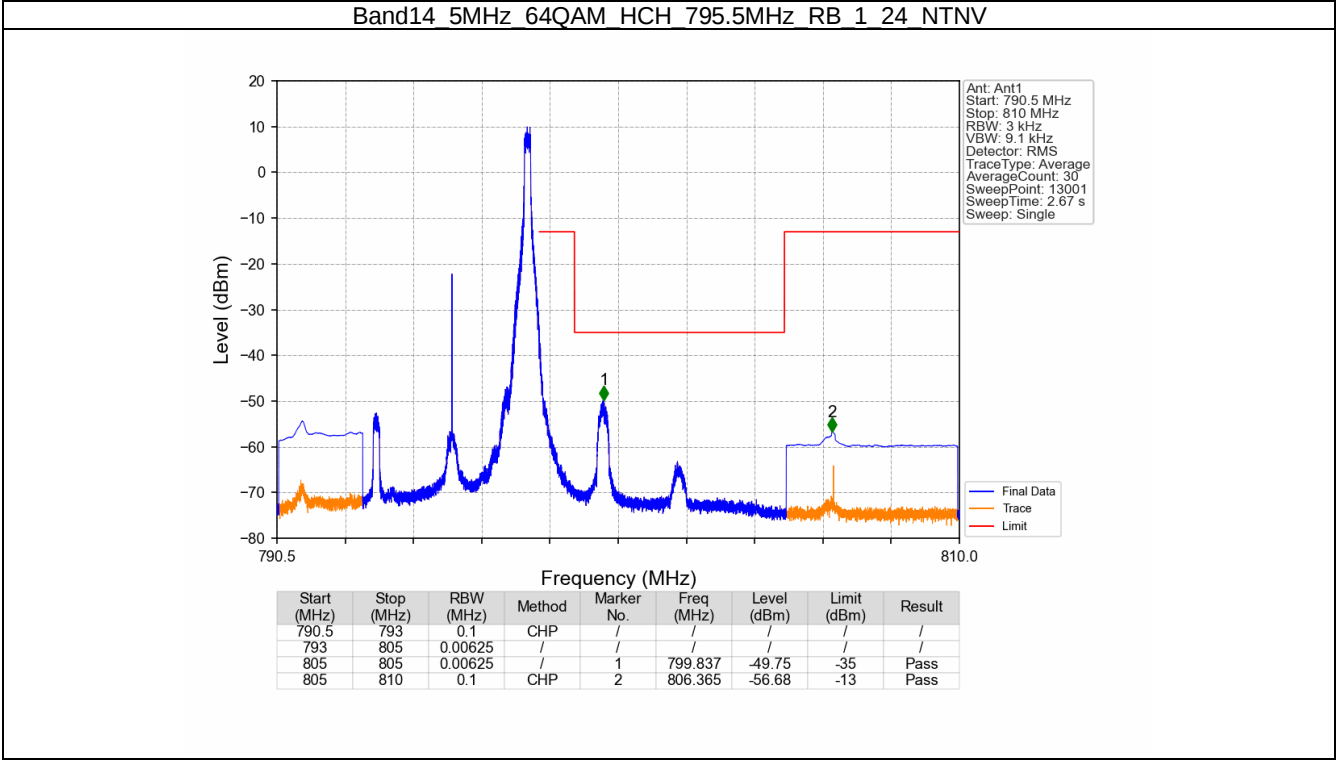
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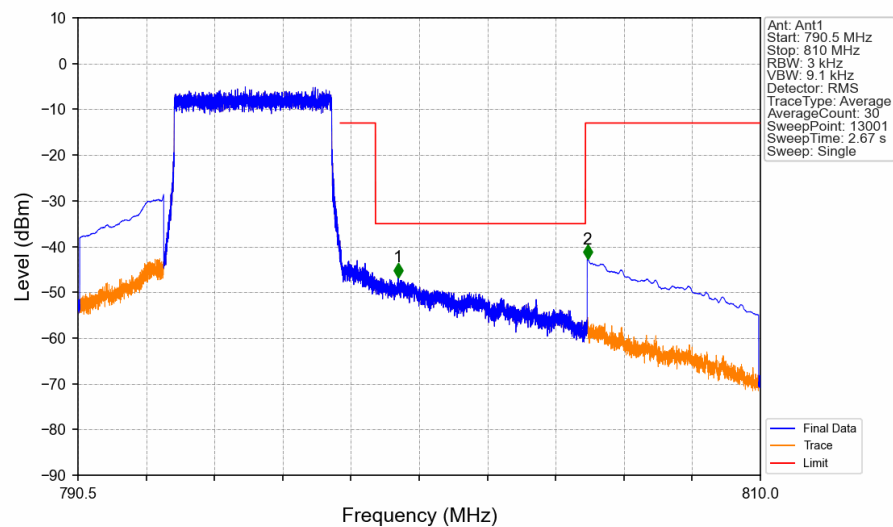


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Band14 5MHz 64QAM HCH 795.5MHz RB 25 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	1	799.649	-46.72	-35	Pass
805	810	0.1	CHP	2	805.059	-42.75	-13	Pass



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4.2 B14_10MHz

4.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	793	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
16QAM	793	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
64QAM	793	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass

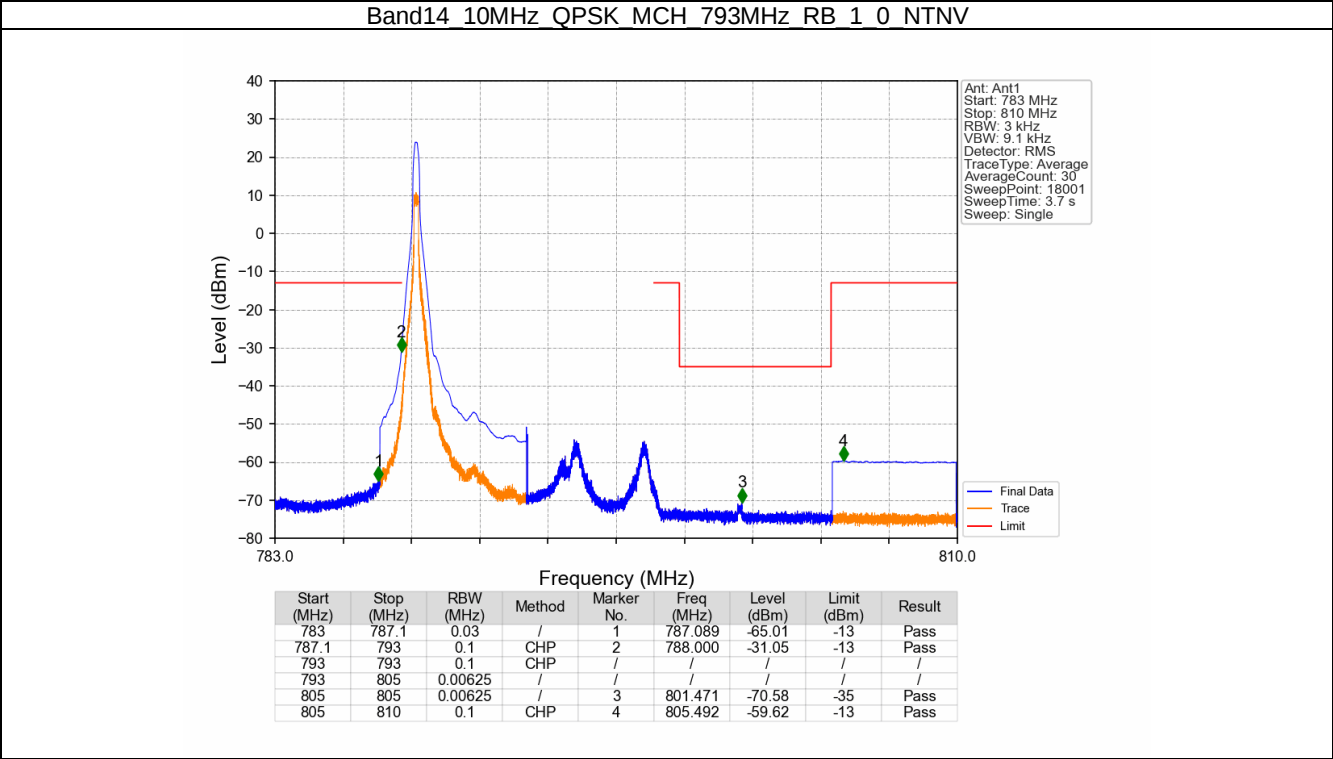


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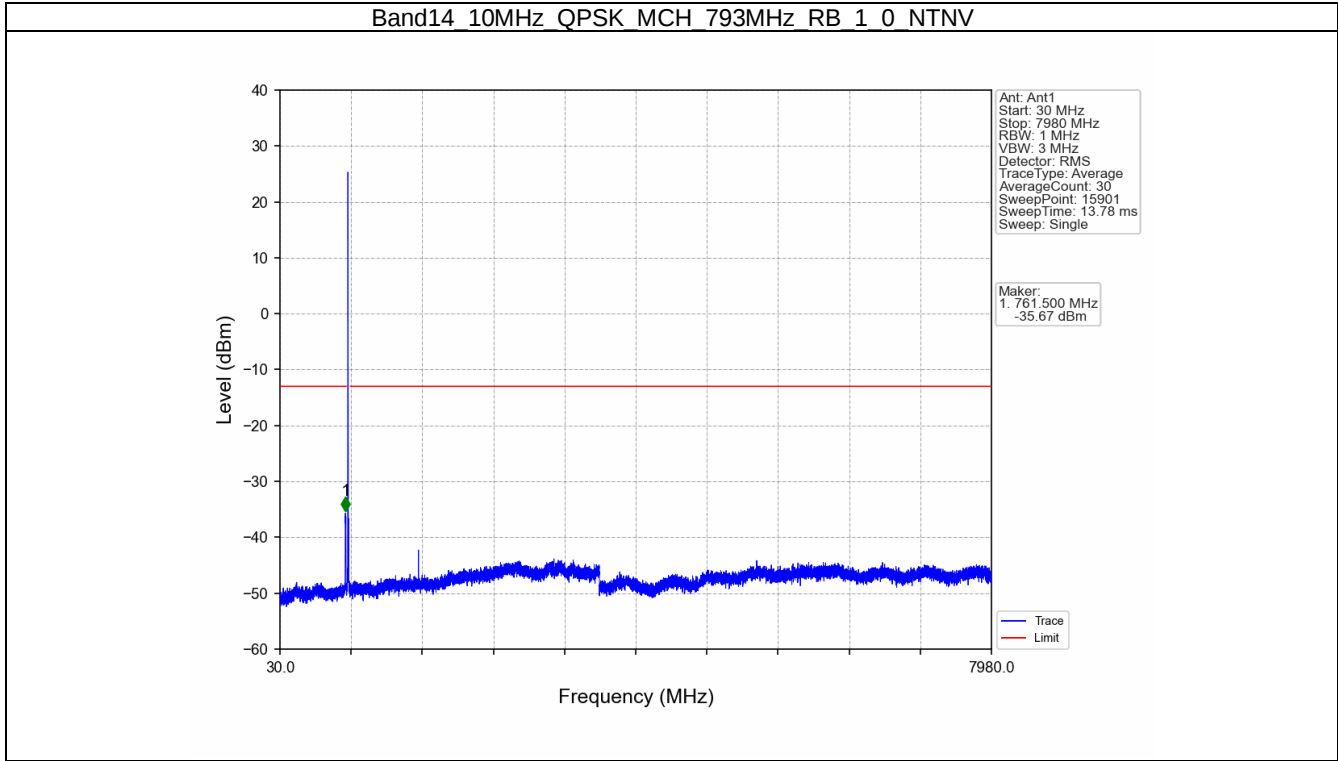
4.2.2 Test Graph





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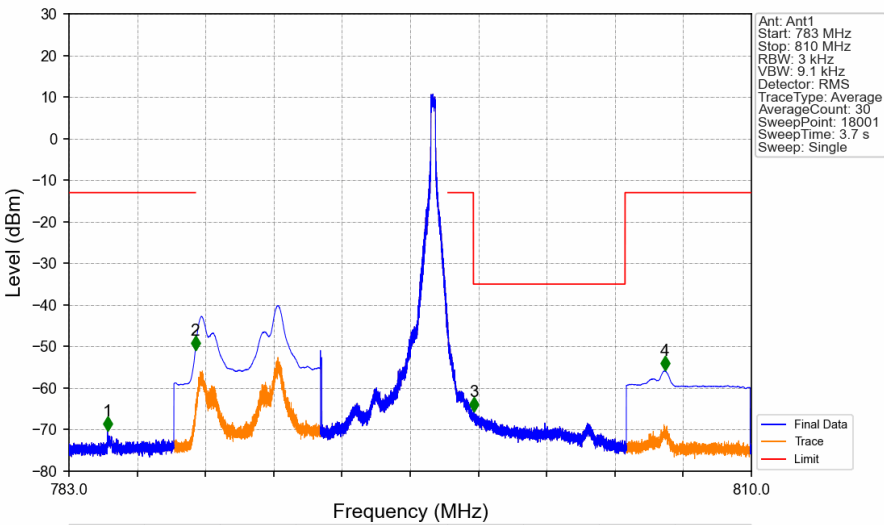


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Band14 10MHz QPSK MCH 793MHz RB 1 49 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.1	0.03	/	1	784.525	-70.25	-13	Pass
787.1	793	0.1	CHP	2	788.000	-50.89	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	3	799.021	-65.69	-35	Pass
805	810	0.1	CHP	4	806.585	-55.84	-13	Pass

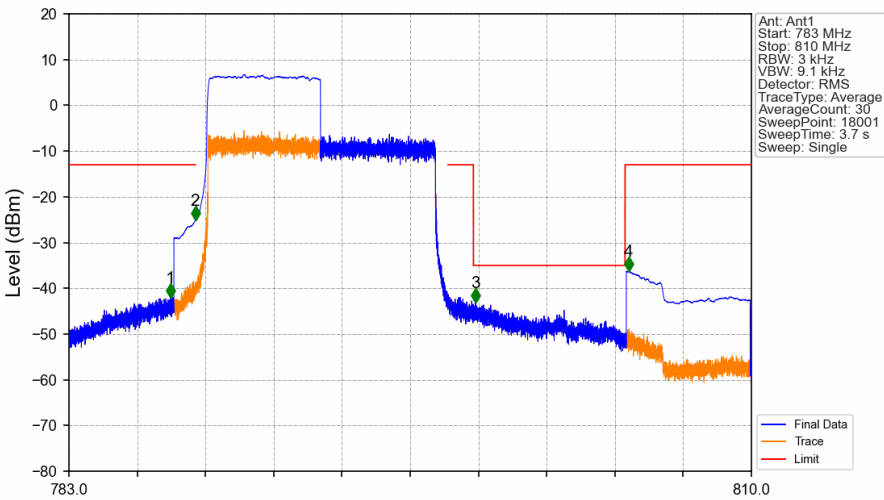


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Band14 10MHz QPSK MCH 793MHz RB 50 0 NTV



Frequency (MHz)								
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.1	0.03	/	1	787.020	-42.08	-13	Pass
787.1	793	0.1	CHP	2	787.998	-25.10	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	3	799.080	-43.21	-35	Pass
805	810	0.1	CHP	4	805.143	-36.24	-13	Pass

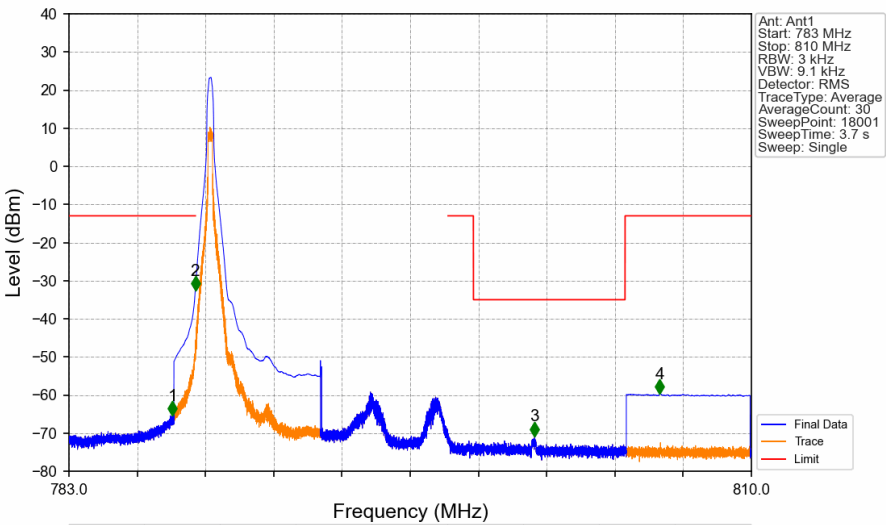


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Band14 10MHz 16QAM MCH 793MHz RB 1 0 NTV

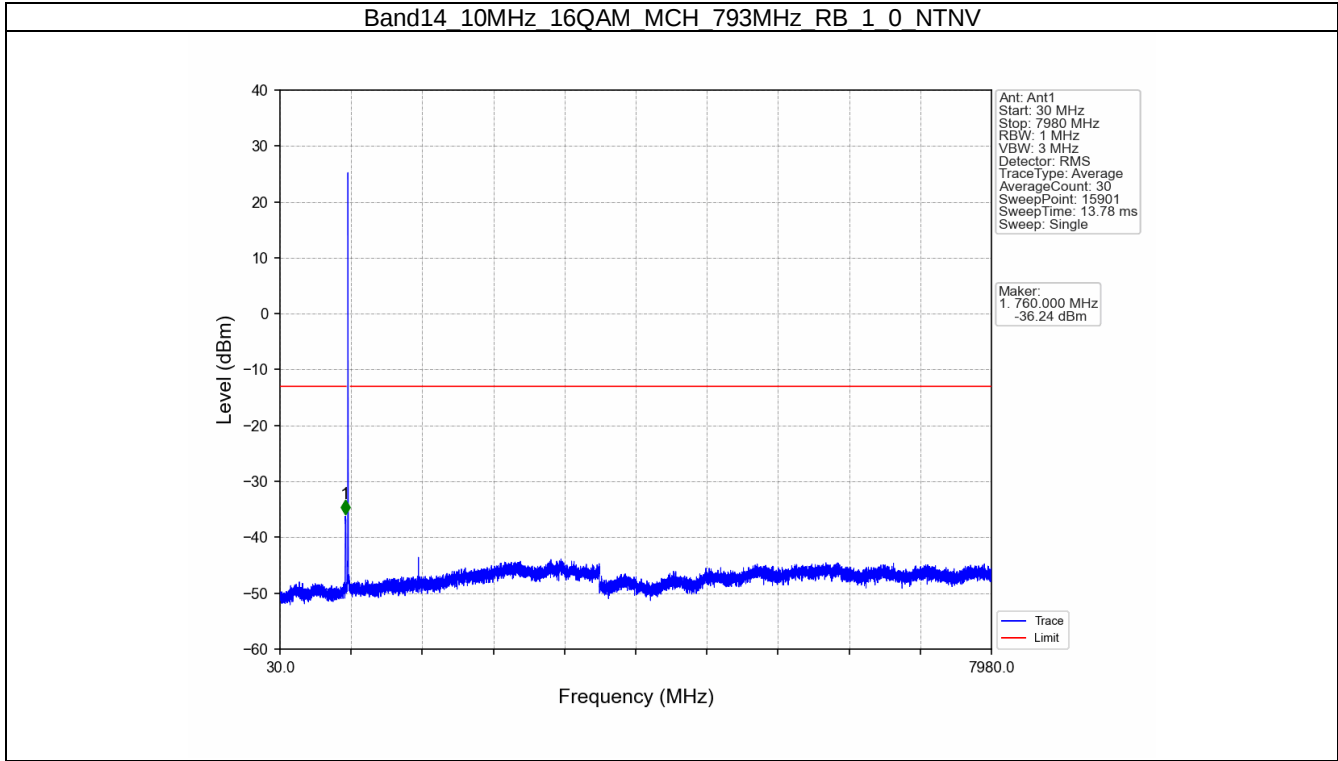


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.1	0.03	/	1	787.091	-65.38	-13	Pass
787.1	793	0.1	CHP	2	788.000	-32.56	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	3	801.424	-70.82	-35	Pass
805	810	0.1	CHP	4	806.373	-59.72	-13	Pass



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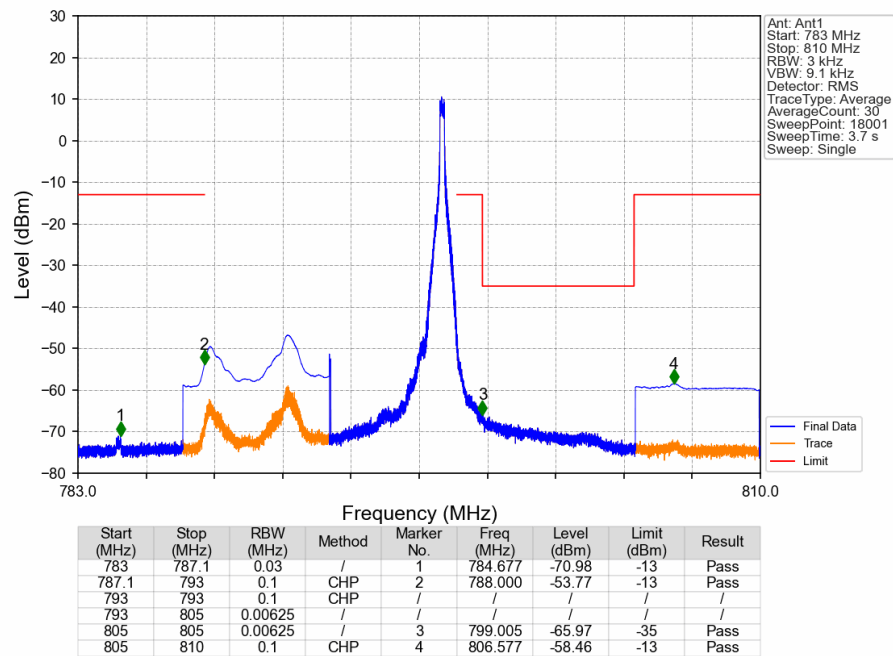


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Band14 10MHz 16QAM MCH 793MHz RB 1 49 NTNV



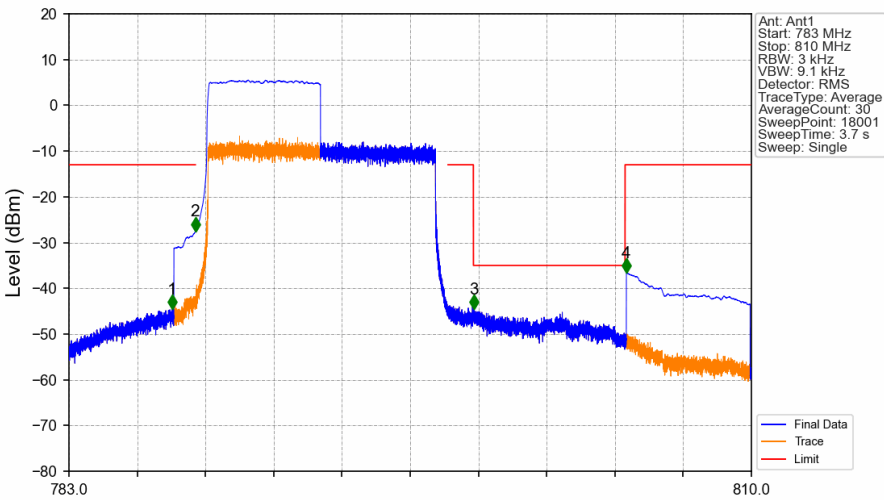


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Band14 10MHz 16QAM MCH 793MHz RB 50 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.1	0.03	/	1	787.083	-44.50	-13	Pass
787.1	793	0.1	CHP	2	787.996	-27.54	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	3	799.023	-44.60	-35	Pass
805	810	0.1	CHP	4	805.052	-36.61	-13	Pass

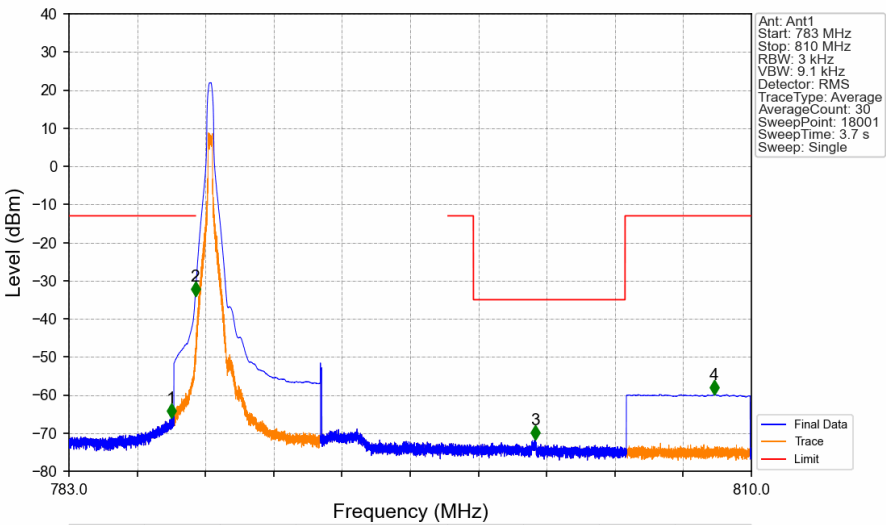


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Band14 10MHz 64QAM MCH 793MHz RB 1 0 NTV



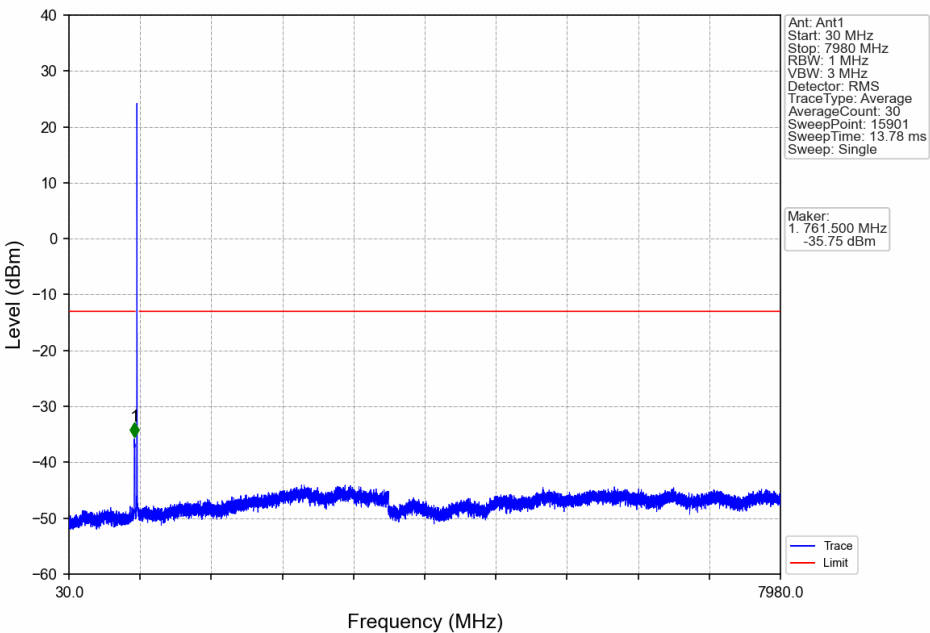
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.1	0.03	/	1	787.047	-65.99	-13	Pass
787.1	793	0.1	CHP	2	788.000	-34.11	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	3	801.439	-71.78	-35	Pass
805	810	0.1	CHP	4	808.527	-59.87	-13	Pass



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Band14 10MHz 64QAM MCH 793MHz RB 1 0 NTNV



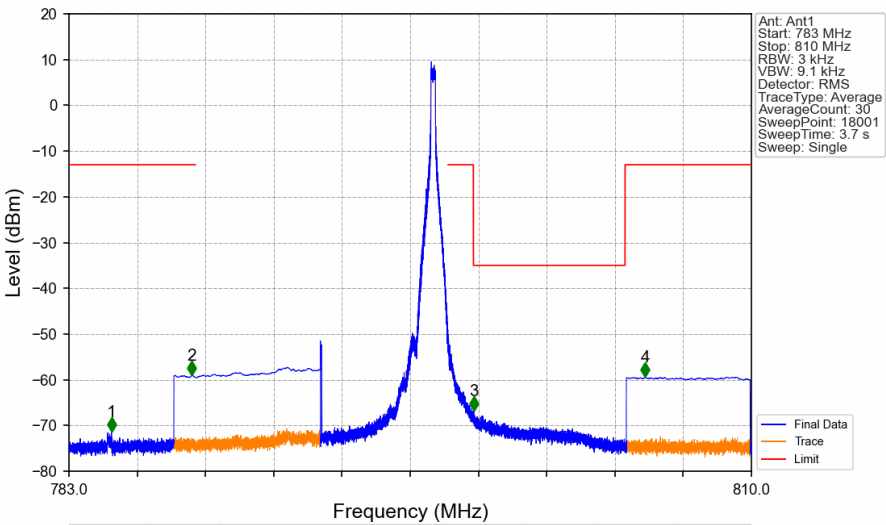


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Band14 10MHz 64QAM MCH 793MHz RB 1 49 NTNV



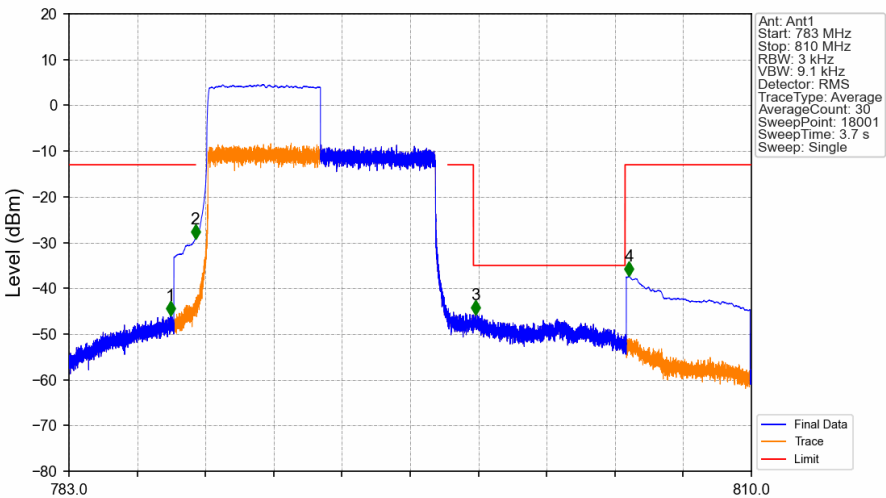
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.1	0.03	/	1	784.682	-71.36	-13	Pass
787.1	793	0.1	CHP	2	787.865	-59.04	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	3	799.014	-66.80	-35	Pass
805	810	0.1	CHP	4	805.797	-59.40	-13	Pass



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Band14 10MHz 64QAM MCH 793MHz RB 50 0 NTNV



Frequency (MHz)								
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.1	0.03	/	1	787.019	-45.98	-13	Pass
787.1	793	0.1	CHP	2	787.995	-29.17	-13	Pass
793	793	0.1	CHP	/	/	/	/	/
793	805	0.00625	/	/	/	/	/	/
805	805	0.00625	/	3	799.093	-45.77	-35	Pass
805	810	0.1	CHP	4	805.158	-37.38	-13	Pass



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5. Effective (Isotropic) Radiated Power Output Data

Ant1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	22.59	20.12	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	22.73	20.26	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	22.57	20.10	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	21.80	19.33	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	22.62	20.15	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	22.69	20.22	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.61	20.14	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	21.77	19.30	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	22.67	20.20	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	22.75	20.28	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.53	20.06	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	21.73	19.26	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	21.88	19.41	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	21.93	19.46	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	21.96	19.49	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	20.79	18.32	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	21.89	19.42	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	21.99	19.52	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	21.98	19.51	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	20.76	18.29	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.01	19.54	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.03	19.56	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	21.83	19.36	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	20.72	18.25	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	20.85	18.38	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	20.85	18.38	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	20.86	18.39	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	19.83	17.36	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	20.86	18.39	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	20.99	18.52	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	20.90	18.43	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	19.73	17.26	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	20.87	18.40	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.03	18.56	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	20.82	18.35	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	19.77	17.30	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	22.73	20.26	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	22.79	20.32	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	22.76	20.29	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	21.77	19.30	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.20	19.73	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.20	19.73	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.03	19.56	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	20.80	18.33	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.03	18.56	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.03	18.56	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	20.93	18.46	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	19.75	17.28	34.77	PASS



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6. Field Strength of Spurious Radiation

Test Band = LTE Band14_10M_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.1800	43.22	-48.29	25.19	-75.14	-40.00	35.14	Horizontal
2	2365.7700	42.79	-47.47	26.93	-73.01	-13.00	60.01	Horizontal
3	3154.3600	42.78	-46.50	28.39	-70.58	-13.00	57.58	Horizontal
4	3942.9500	41.33	-46.22	29.04	-71.10	-13.00	58.10	Horizontal
5	4731.5400	40.60	-45.75	30.81	-69.60	-13.00	56.60	Horizontal
6	5520.1300	39.46	-45.17	32.60	-68.36	-13.00	55.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.1800	43.48	-48.29	25.19	-74.88	-40.00	34.88	Vertical
2	2365.7700	42.87	-47.47	26.93	-72.93	-13.00	59.93	Vertical
3	3154.3600	41.91	-46.50	28.39	-71.45	-13.00	58.45	Vertical
4	3942.9500	41.88	-46.22	29.04	-70.55	-13.00	57.55	Vertical
5	4731.5400	40.43	-45.75	30.81	-69.77	-13.00	56.77	Vertical
6	5520.1300	39.48	-45.17	32.60	-68.34	-13.00	55.34	Vertical



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Test Band = LTE Band14_5M_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.6800	43.72	-48.29	25.19	-74.64	-40.00	34.64	Horizontal
2	2365.0200	42.64	-47.47	26.92	-73.17	-13.00	60.17	Horizontal
3	3153.3600	41.75	-46.50	28.39	-71.62	-13.00	58.62	Horizontal
4	3941.7000	41.91	-46.22	29.04	-70.53	-13.00	57.53	Horizontal
5	4730.0400	40.42	-45.75	30.81	-69.78	-13.00	56.78	Horizontal
6	5518.3800	40.34	-45.16	32.60	-67.48	-13.00	54.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.6800	44.26	-48.29	25.19	-74.10	-40.00	34.10	Vertical
2	2365.0200	43.58	-47.47	26.92	-72.23	-13.00	59.23	Vertical
3	3153.3600	42.05	-46.50	28.39	-71.32	-13.00	58.32	Vertical
4	3941.7000	41.34	-46.22	29.04	-71.10	-13.00	58.10	Vertical
5	4730.0400	40.39	-45.75	30.81	-69.81	-13.00	56.81	Vertical
6	5518.3800	39.92	-45.16	32.60	-67.90	-13.00	54.90	Vertical



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Test Band = LTE Band14_5M_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.6800	43.38	-48.29	25.19	-74.98	-40.00	34.98	Horizontal
2	2372.5200	43.21	-47.46	26.94	-72.57	-13.00	59.57	Horizontal
3	3163.3600	42.16	-46.46	28.40	-71.16	-13.00	58.16	Horizontal
4	3954.2000	41.46	-46.21	29.05	-70.96	-13.00	57.96	Horizontal
5	4745.0400	40.00	-45.73	30.84	-70.15	-13.00	57.15	Horizontal
6	5535.8800	39.66	-45.19	32.61	-68.18	-13.00	55.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.6800	43.43	-48.29	25.19	-74.93	-40.00	34.93	Vertical
2	2372.5200	42.93	-47.46	26.94	-72.85	-13.00	59.85	Vertical
3	3163.3600	42.32	-46.46	28.40	-71.00	-13.00	58.00	Vertical
4	3954.2000	41.36	-46.21	29.05	-71.06	-13.00	58.06	Vertical
5	4745.0400	41.03	-45.73	30.84	-69.12	-13.00	56.12	Vertical
6	5535.8800	39.64	-45.19	32.61	-68.20	-13.00	55.20	Vertical



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Test Band = LTE Band14_5M_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.6800	43.19	-48.29	25.19	-75.16	-40.00	35.16	Horizontal
2	2380.0200	42.92	-47.46	26.97	-72.83	-13.00	59.83	Horizontal
3	3173.3600	42.28	-46.41	28.40	-70.99	-13.00	57.99	Horizontal
4	3966.7000	41.65	-46.21	29.07	-70.75	-13.00	57.75	Horizontal
5	4760.0400	40.07	-45.70	30.87	-70.02	-13.00	57.02	Horizontal
6	5553.3800	40.18	-45.21	32.61	-67.68	-13.00	54.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.6800	43.96	-48.29	25.19	-74.39	-40.00	34.39	Vertical
2	2380.0200	42.65	-47.46	26.97	-73.10	-13.00	60.10	Vertical
3	3173.3600	42.20	-46.41	28.40	-71.07	-13.00	58.07	Vertical
4	3966.7000	41.34	-46.21	29.07	-71.06	-13.00	58.06	Vertical
5	4760.0400	40.13	-45.70	30.87	-69.96	-13.00	56.96	Vertical
6	5553.3800	39.99	-45.21	32.61	-67.87	-13.00	54.87	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



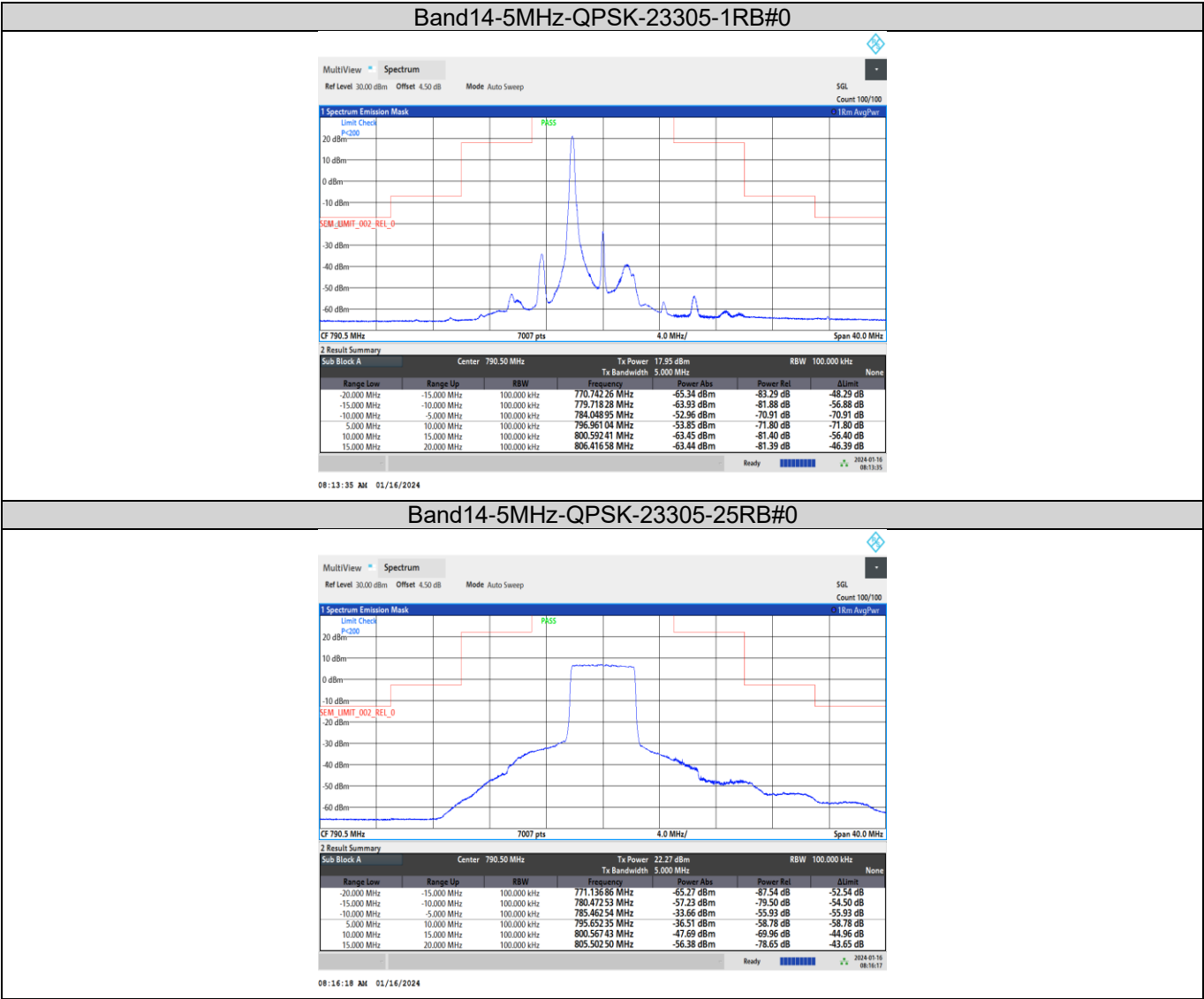
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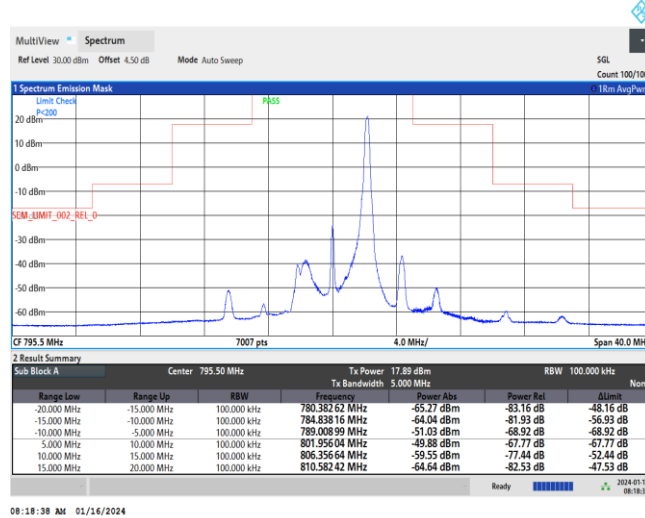
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7. Emission Mask

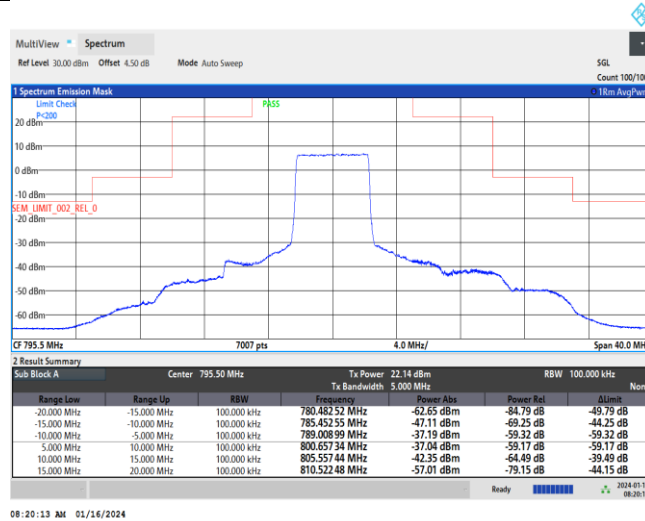
Test Graphs



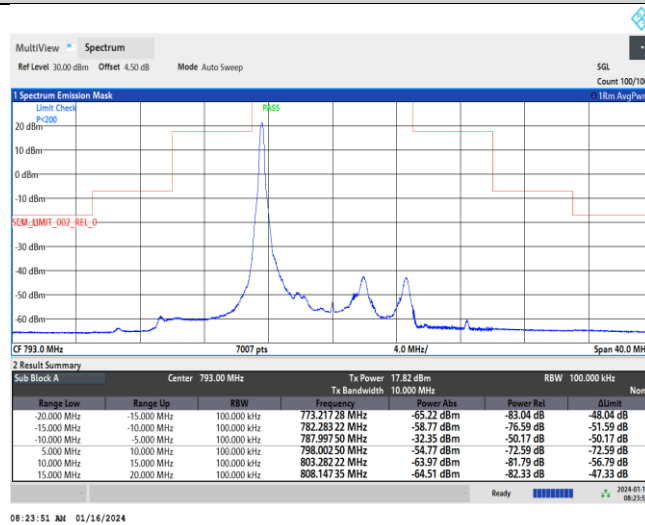
Band14-5MHz-QPSK-23355-1RB#24



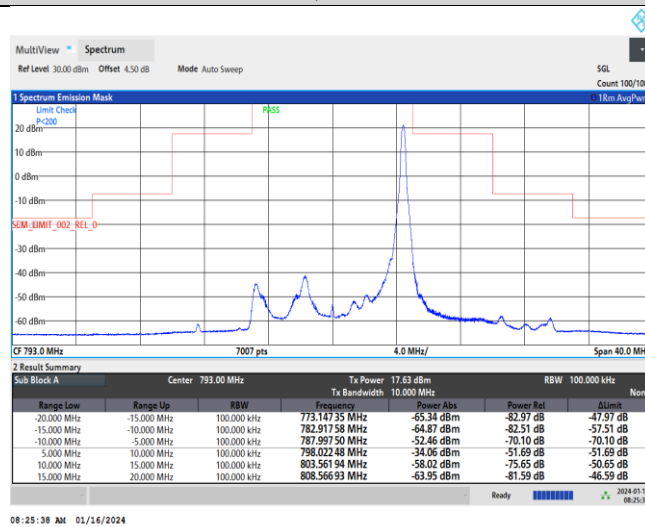
Band14-5MHz-QPSK-23355-25RB#0

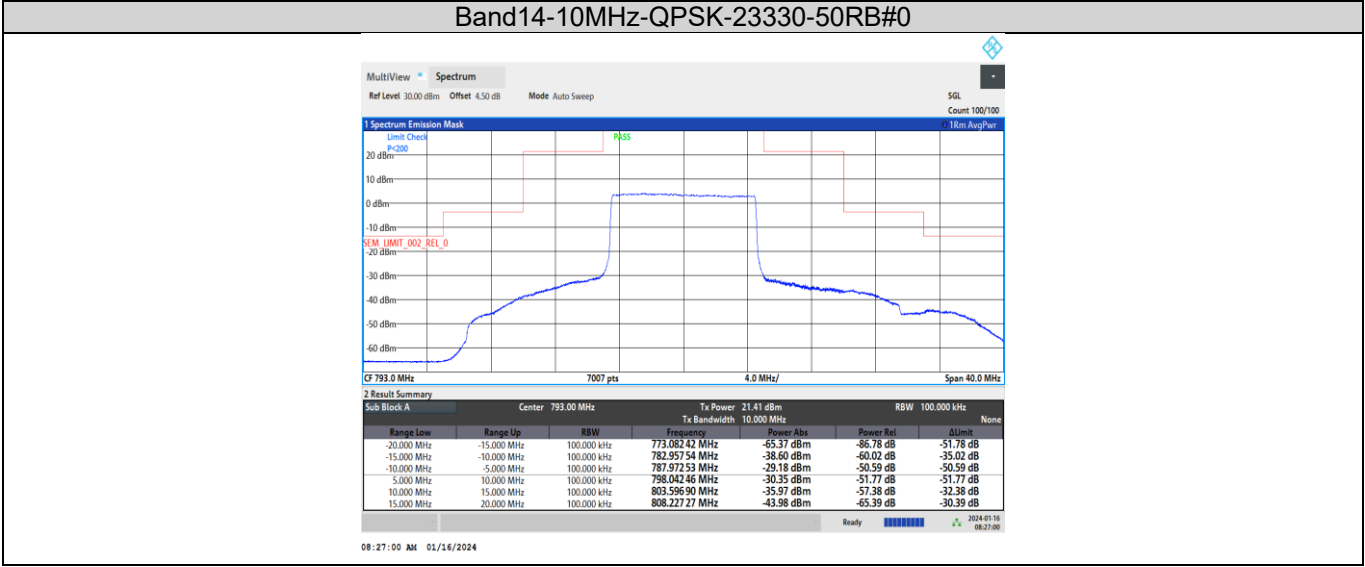


Band14-10MHz-QPSK-23330-1RB#0



Band14-10MHz-QPSK-23330-1RB#49





---End of Attachment---