

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 PCS1900_EIRP

Band: PCS1900								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	1850.2	31.06	1.58	32.64	<=33.01	Pass
			1880	31.03	1.58	32.61	<=33.01	Pass
			1909.8	31.39	1.58	32.97	<=33.01	Pass
	GPRS	1 TX Slot	1850.2	31.11	1.58	32.69	<=33.01	Pass
		2 TX Slots	1850.2	30.23	1.58	31.81	<=33.01	Pass
		3 TX Slots	1850.2	29.06	1.58	30.64	<=33.01	Pass
		4 TX Slots	1850.2	26.77	1.58	28.35	<=33.01	Pass
		1 TX Slot	1880	30.80	1.58	32.38	<=33.01	Pass
		2 TX Slots	1880	29.95	1.58	31.53	<=33.01	Pass
		3 TX Slots	1880	28.74	1.58	30.32	<=33.01	Pass
		4 TX Slots	1880	26.38	1.58	27.96	<=33.01	Pass
		1 TX Slot	1909.8	31.34	1.58	32.92	<=33.01	Pass
		2 TX Slots	1909.8	30.32	1.58	31.90	<=33.01	Pass
		3 TX Slots	1909.8	29.15	1.58	30.73	<=33.01	Pass
		4 TX Slots	1909.8	27.02	1.58	28.60	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	25.07	1.58	26.65	<=33.01	Pass
		2 TX Slots	1850.2	23.40	1.58	24.98	<=33.01	Pass
		3 TX Slots	1850.2	21.42	1.58	23.00	<=33.01	Pass
		4 TX Slots	1850.2	19.72	1.58	21.30	<=33.01	Pass
		1 TX Slot	1880	25.34	1.58	26.92	<=33.01	Pass
		2 TX Slots	1880	22.93	1.58	24.51	<=33.01	Pass
		3 TX Slots	1880	21.12	1.58	22.70	<=33.01	Pass
		4 TX Slots	1880	19.62	1.58	21.20	<=33.01	Pass
		1 TX Slot	1909.8	25.71	1.58	27.29	<=33.01	Pass
		2 TX Slots	1909.8	23.13	1.58	24.71	<=33.01	Pass
		3 TX Slots	1909.8	21.34	1.58	22.92	<=33.01	Pass
		4 TX Slots	1909.8	20.13	1.58	21.71	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 PCS1900

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	

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GSM	1850.2	20	LV	3.648	0.0020	-2.5 to 2.5	Pass
			NV	6.037	0.0033	-2.5 to 2.5	Pass
			HV	11.332	0.0061	-2.5 to 2.5	Pass
		-30	NV	12.785	0.0069	-2.5 to 2.5	Pass
		-20	NV	5.198	0.0028	-2.5 to 2.5	Pass
		-10	NV	1.776	0.0010	-2.5 to 2.5	Pass
		0	NV	4.585	0.0025	-2.5 to 2.5	Pass
		10	NV	1.130	0.0006	-2.5 to 2.5	Pass
		30	NV	3.777	0.0020	-2.5 to 2.5	Pass
		40	NV	6.683	0.0036	-2.5 to 2.5	Pass
		50	NV	6.554	0.0035	-2.5 to 2.5	Pass
	1880	20	LV	-3.713	-0.0020	-2.5 to 2.5	Pass
			NV	-2.680	-0.0014	-2.5 to 2.5	Pass
			HV	-0.872	-0.0005	-2.5 to 2.5	Pass
		-30	NV	-0.161	-0.0001	-2.5 to 2.5	Pass
		-20	NV	-6.425	-0.0034	-2.5 to 2.5	Pass
		-10	NV	-1.873	-0.0010	-2.5 to 2.5	Pass
		0	NV	-4.811	-0.0026	-2.5 to 2.5	Pass
		10	NV	-4.197	-0.0022	-2.5 to 2.5	Pass
		30	NV	-3.874	-0.0021	-2.5 to 2.5	Pass
		40	NV	-2.292	-0.0012	-2.5 to 2.5	Pass
		50	NV	-1.679	-0.0009	-2.5 to 2.5	Pass
	1909.8	20	LV	2.938	0.0015	-2.5 to 2.5	Pass
			NV	-3.390	-0.0018	-2.5 to 2.5	Pass
			HV	0.678	0.0004	-2.5 to 2.5	Pass
		-30	NV	-0.936	-0.0005	-2.5 to 2.5	Pass
		-20	NV	-1.001	-0.0005	-2.5 to 2.5	Pass
		-10	NV	1.679	0.0009	-2.5 to 2.5	Pass
		0	NV	-0.097	-0.0001	-2.5 to 2.5	Pass
		10	NV	-2.228	-0.0012	-2.5 to 2.5	Pass
		30	NV	-4.036	-0.0021	-2.5 to 2.5	Pass
		40	NV	-5.295	-0.0028	-2.5 to 2.5	Pass
		50	NV	1.485	0.0008	-2.5 to 2.5	Pass
GPRS	1850.2	20	LV	19.242	0.0104	-2.5 to 2.5	Pass
			NV	17.790	0.0096	-2.5 to 2.5	Pass
			HV	17.273	0.0093	-2.5 to 2.5	Pass
		-30	NV	16.434	0.0089	-2.5 to 2.5	Pass
		-20	NV	18.758	0.0101	-2.5 to 2.5	Pass
		-10	NV	18.694	0.0101	-2.5 to 2.5	Pass
		0	NV	15.465	0.0084	-2.5 to 2.5	Pass
		10	NV	17.338	0.0094	-2.5 to 2.5	Pass
		30	NV	20.050	0.0108	-2.5 to 2.5	Pass
		40	NV	13.108	0.0071	-2.5 to 2.5	Pass
		50	NV	18.338	0.0099	-2.5 to 2.5	Pass
	1880	20	LV	9.427	0.0050	-2.5 to 2.5	Pass
			NV	7.167	0.0038	-2.5 to 2.5	Pass
			HV	11.623	0.0062	-2.5 to 2.5	Pass
		-30	NV	7.587	0.0040	-2.5 to 2.5	Pass
		-20	NV	7.329	0.0039	-2.5 to 2.5	Pass
		-10	NV	7.329	0.0039	-2.5 to 2.5	Pass
		0	NV	10.913	0.0058	-2.5 to 2.5	Pass
		10	NV	11.817	0.0063	-2.5 to 2.5	Pass

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		30	NV	6.909	0.0037	-2.5 to 2.5	Pass
		40	NV	7.523	0.0040	-2.5 to 2.5	Pass
		50	NV	6.877	0.0037	-2.5 to 2.5	Pass
	1909.8	20	LV	12.075	0.0063	-2.5 to 2.5	Pass
			NV	13.076	0.0068	-2.5 to 2.5	Pass
			HV	11.720	0.0061	-2.5 to 2.5	Pass
		-30	NV	14.916	0.0078	-2.5 to 2.5	Pass
		-20	NV	12.979	0.0068	-2.5 to 2.5	Pass
		-10	NV	10.880	0.0057	-2.5 to 2.5	Pass
		0	NV	10.525	0.0055	-2.5 to 2.5	Pass
		10	NV	10.170	0.0053	-2.5 to 2.5	Pass
		30	NV	13.205	0.0069	-2.5 to 2.5	Pass
		40	NV	12.656	0.0066	-2.5 to 2.5	Pass
		50	NV	15.207	0.0080	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	5.682	0.0031	-2.5 to 2.5	Pass
			NV	5.747	0.0031	-2.5 to 2.5	Pass
			HV	12.462	0.0067	-2.5 to 2.5	Pass
		-30	NV	10.299	0.0056	-2.5 to 2.5	Pass
		-20	NV	9.653	0.0052	-2.5 to 2.5	Pass
		-10	NV	7.490	0.0040	-2.5 to 2.5	Pass
		0	NV	8.620	0.0047	-2.5 to 2.5	Pass
		10	NV	7.716	0.0042	-2.5 to 2.5	Pass
		30	NV	10.299	0.0056	-2.5 to 2.5	Pass
		40	NV	10.364	0.0056	-2.5 to 2.5	Pass
		50	NV	8.749	0.0047	-2.5 to 2.5	Pass
	1880	20	LV	1.033	0.0005	-2.5 to 2.5	Pass
			NV	2.841	0.0015	-2.5 to 2.5	Pass
			HV	1.421	0.0008	-2.5 to 2.5	Pass
		-30	NV	3.842	0.0020	-2.5 to 2.5	Pass
		-20	NV	5.941	0.0032	-2.5 to 2.5	Pass
		-10	NV	4.423	0.0024	-2.5 to 2.5	Pass
		0	NV	3.874	0.0021	-2.5 to 2.5	Pass
		10	NV	1.001	0.0005	-2.5 to 2.5	Pass
		30	NV	4.359	0.0023	-2.5 to 2.5	Pass
		40	NV	4.262	0.0023	-2.5 to 2.5	Pass
		50	NV	5.133	0.0027	-2.5 to 2.5	Pass
	1909.8	20	LV	8.556	0.0045	-2.5 to 2.5	Pass
			NV	8.168	0.0043	-2.5 to 2.5	Pass
			HV	9.653	0.0051	-2.5 to 2.5	Pass
		-30	NV	8.749	0.0046	-2.5 to 2.5	Pass
		-20	NV	6.489	0.0034	-2.5 to 2.5	Pass
		-10	NV	7.103	0.0037	-2.5 to 2.5	Pass
		0	NV	7.329	0.0038	-2.5 to 2.5	Pass
		10	NV	8.911	0.0047	-2.5 to 2.5	Pass
		30	NV	5.779	0.0030	-2.5 to 2.5	Pass
		40	NV	5.973	0.0031	-2.5 to 2.5	Pass
		50	NV	7.716	0.0040	-2.5 to 2.5	Pass

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3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.243	/	Pass
			1880	0.247	/	Pass
			1909.8	0.248	/	Pass
	GPRS	1 TX Slot	1850.2	0.250	/	Pass
			1880	0.243	/	Pass
			1909.8	0.241	/	Pass
	EGPRS	1 TX Slot	1850.2	0.236	/	Pass
			1880	0.254	/	Pass
			1909.8	0.244	/	Pass

3.1.2 PCS1900_XDB

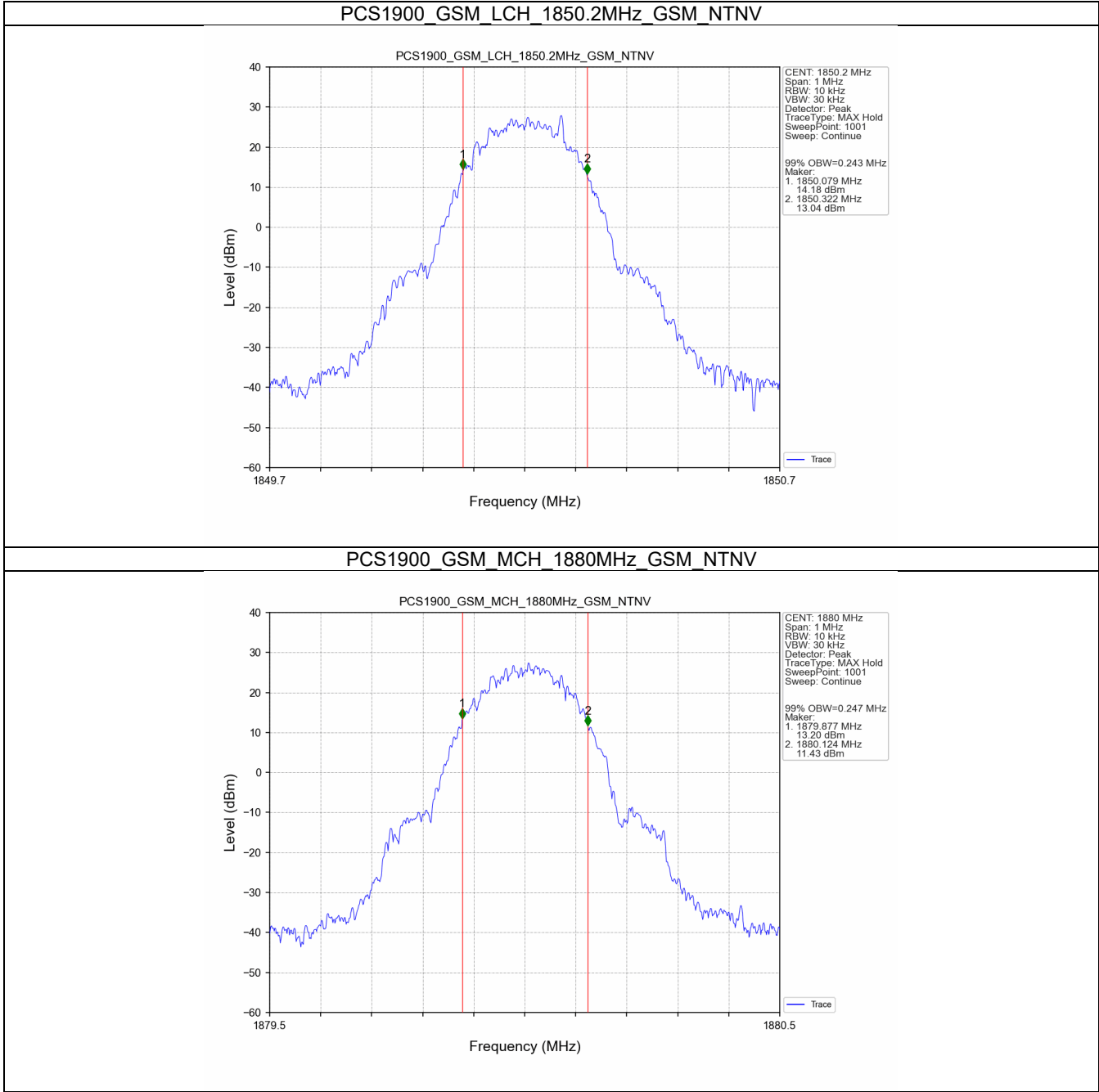
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.315	/	Pass
			1880	0.322	/	Pass
			1909.8	0.319	/	Pass
	GPRS	1 TX Slot	1850.2	0.316	/	Pass
			1880	0.319	/	Pass
			1909.8	0.316	/	Pass
	EGPRS	1 TX Slot	1850.2	0.304	/	Pass
			1880	0.330	/	Pass
			1909.8	0.297	/	Pass

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3.2 Test Graph

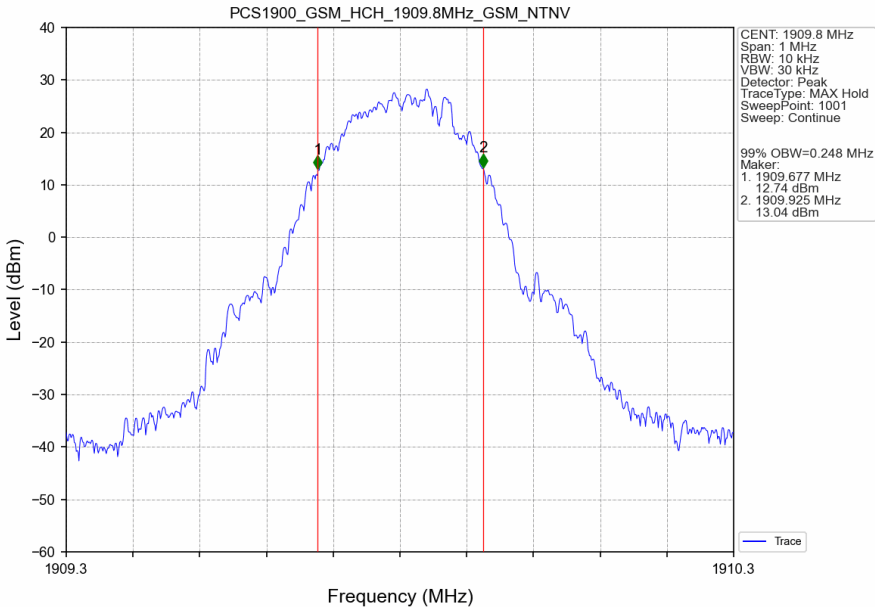
3.2.1 PCS1900_OBW



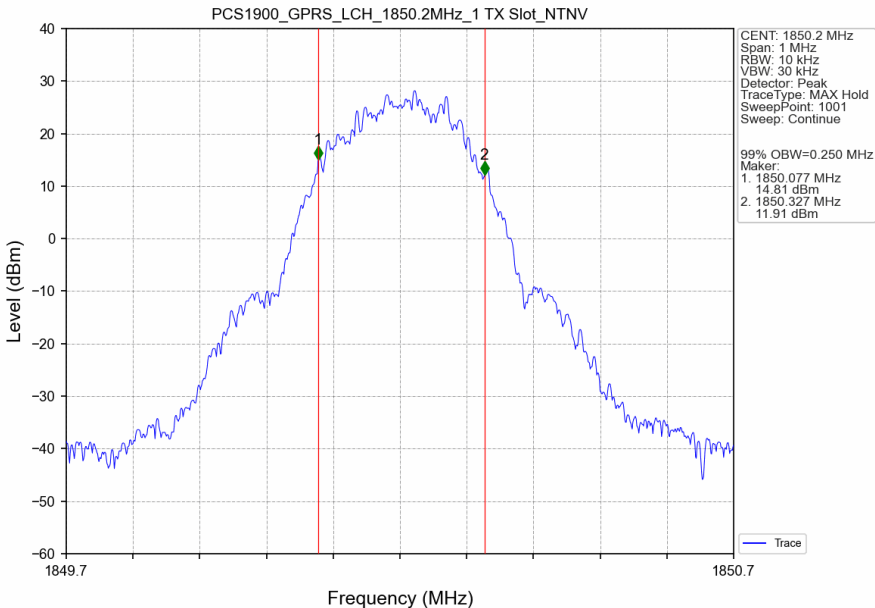
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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



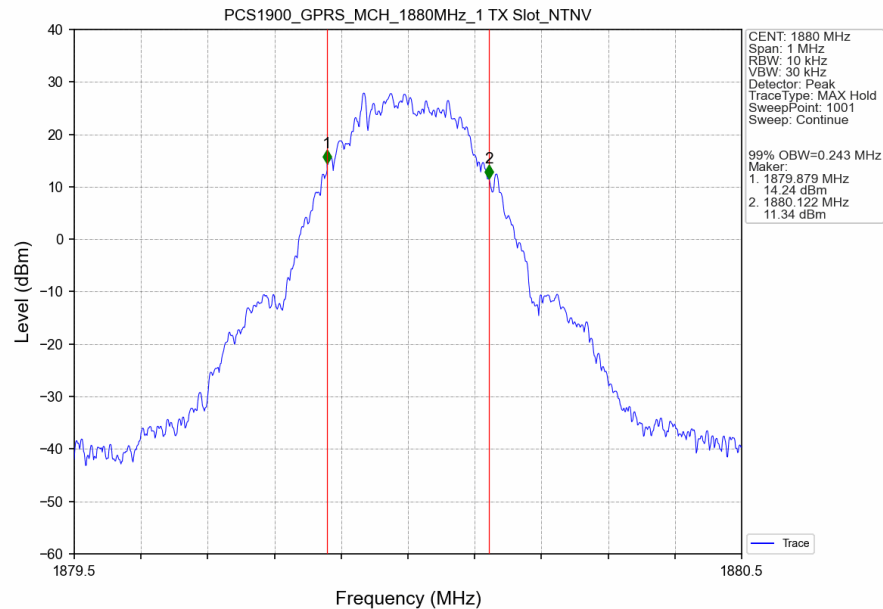
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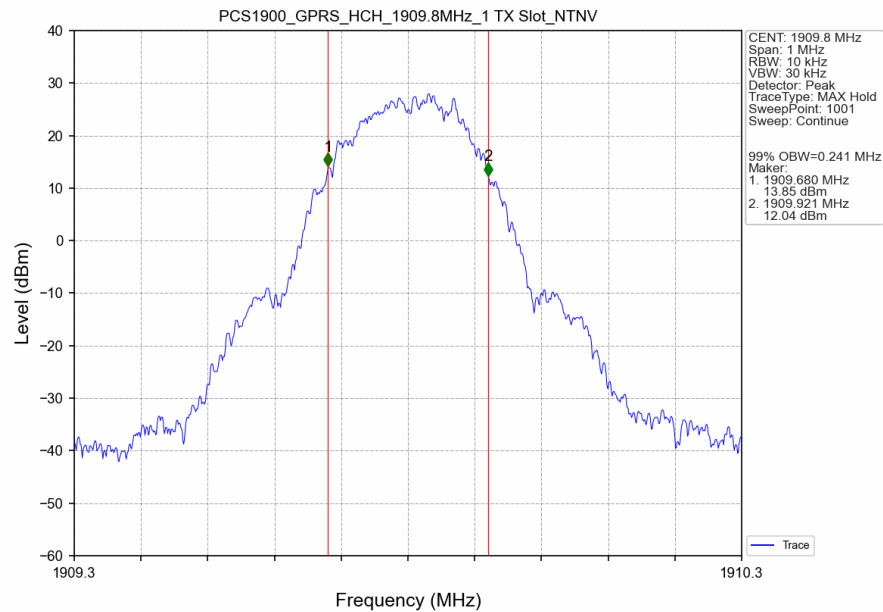
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PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



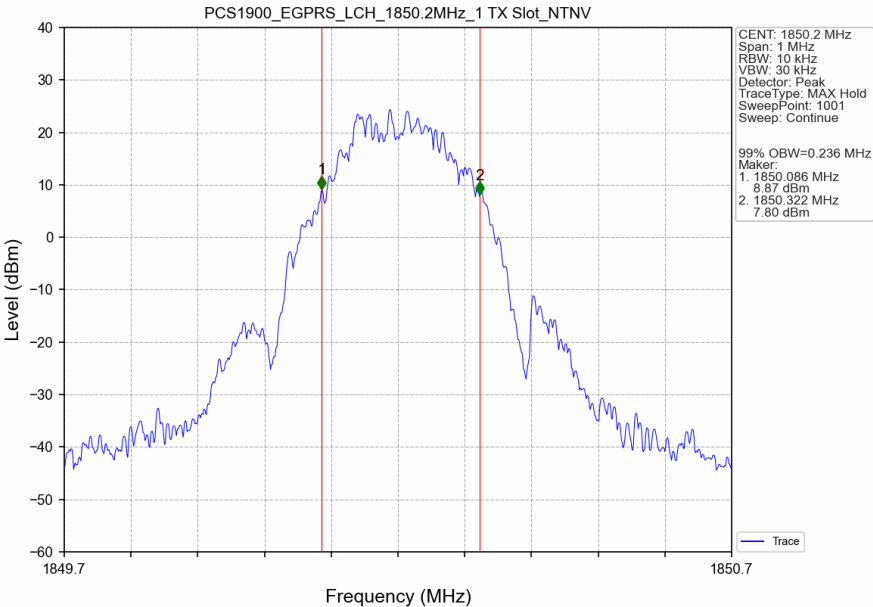
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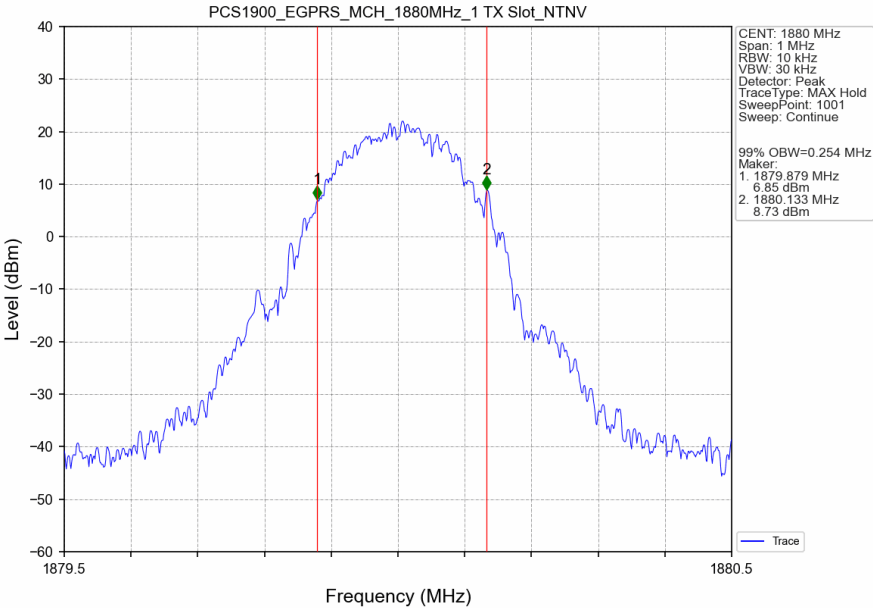
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Report No.: FYCR2605000011AT

PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV

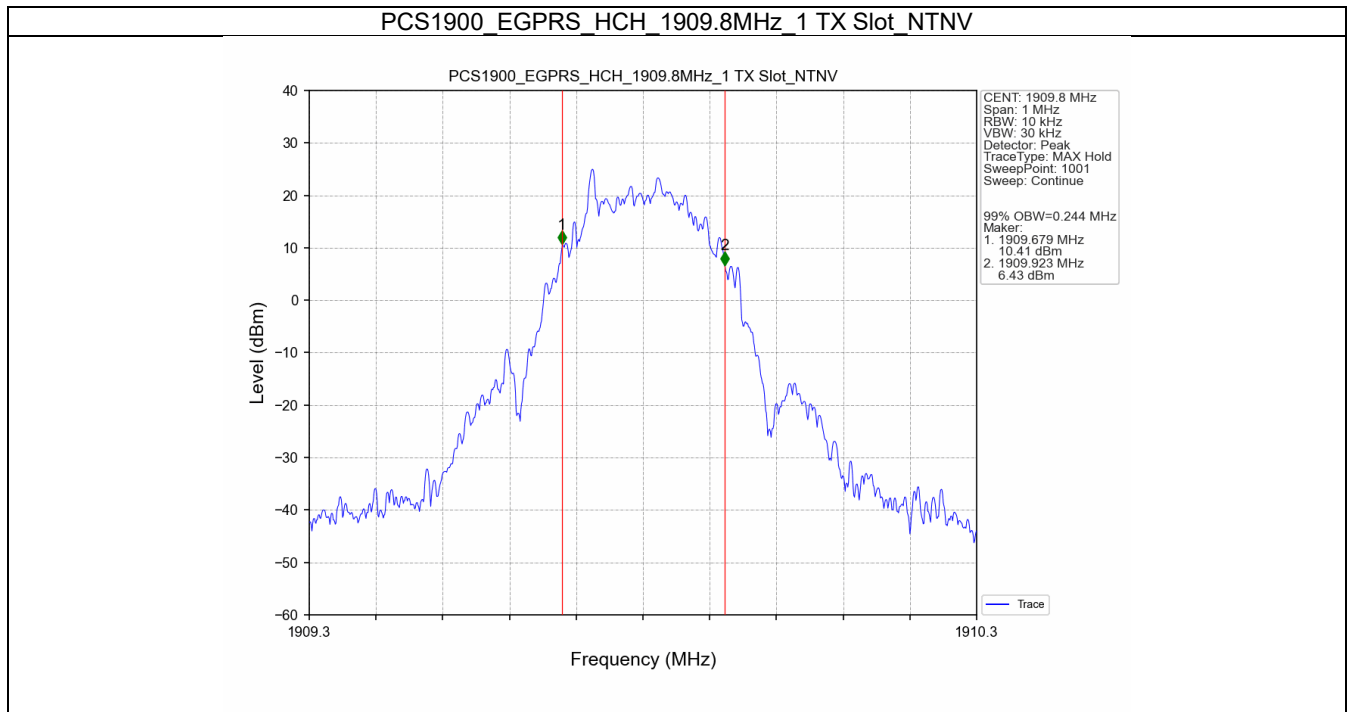


PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV

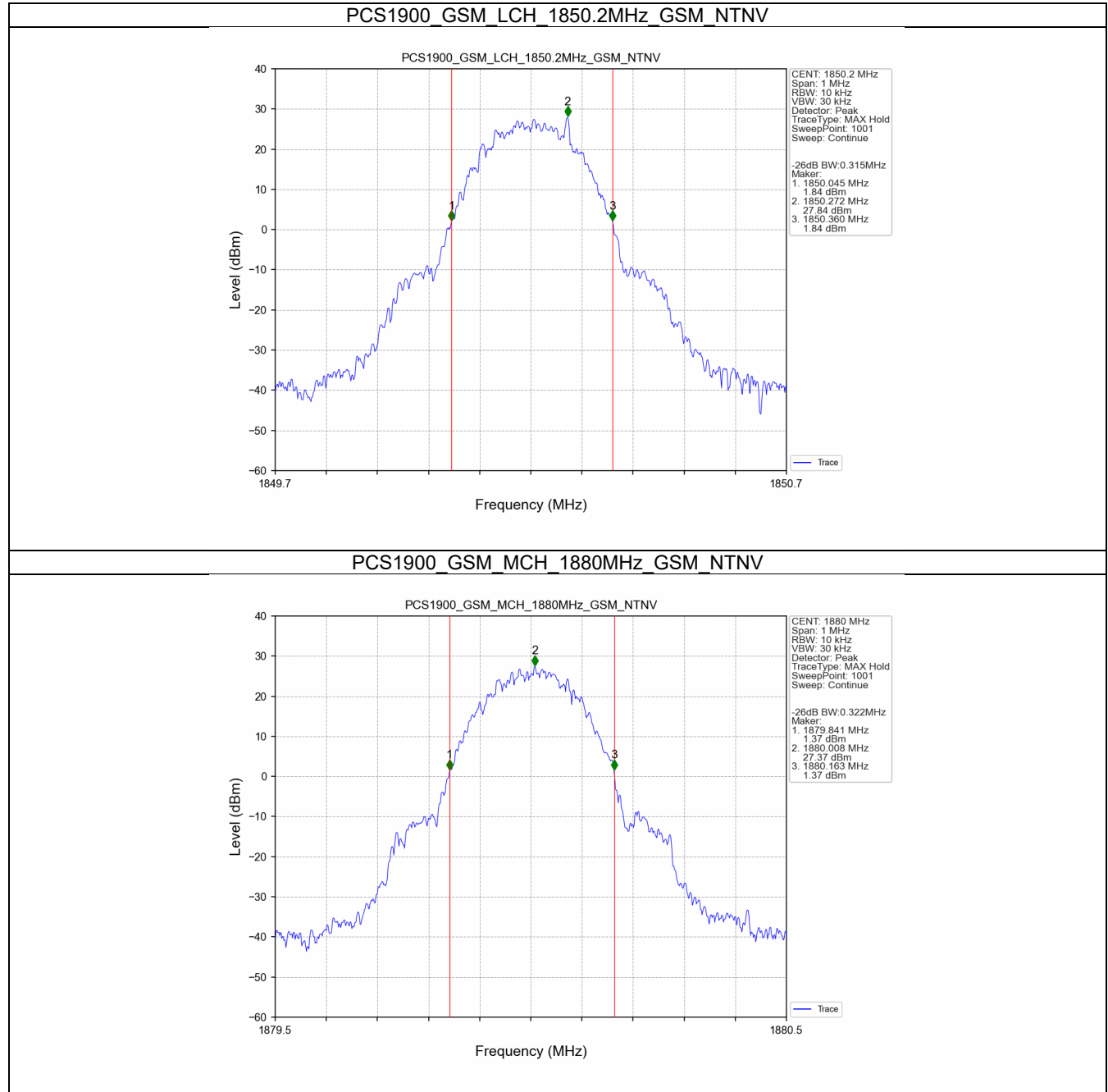


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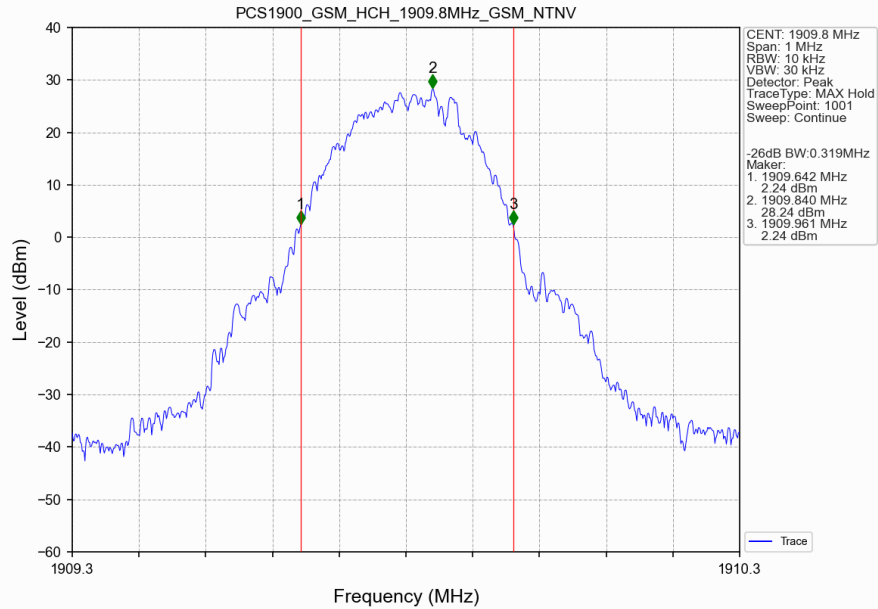
3.2.2 PCS1900_XDB



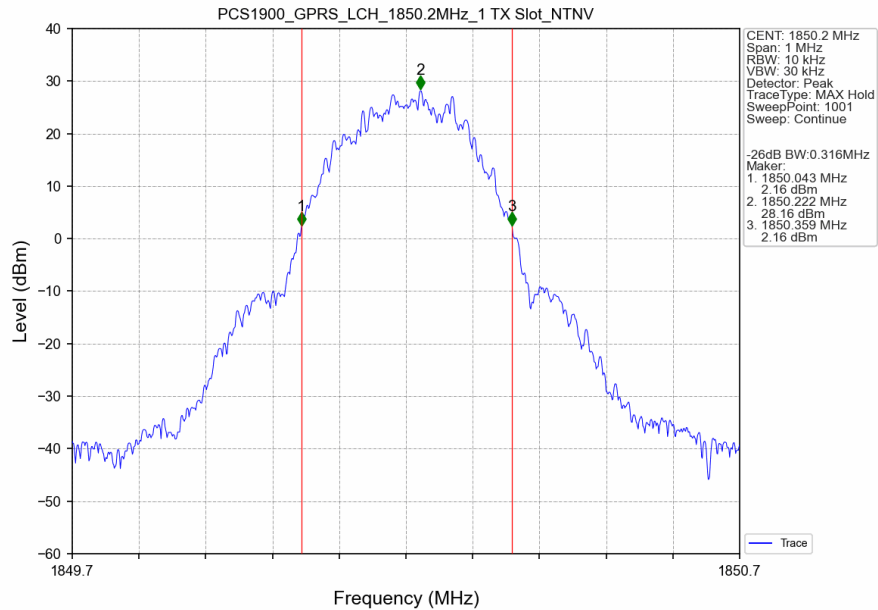
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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



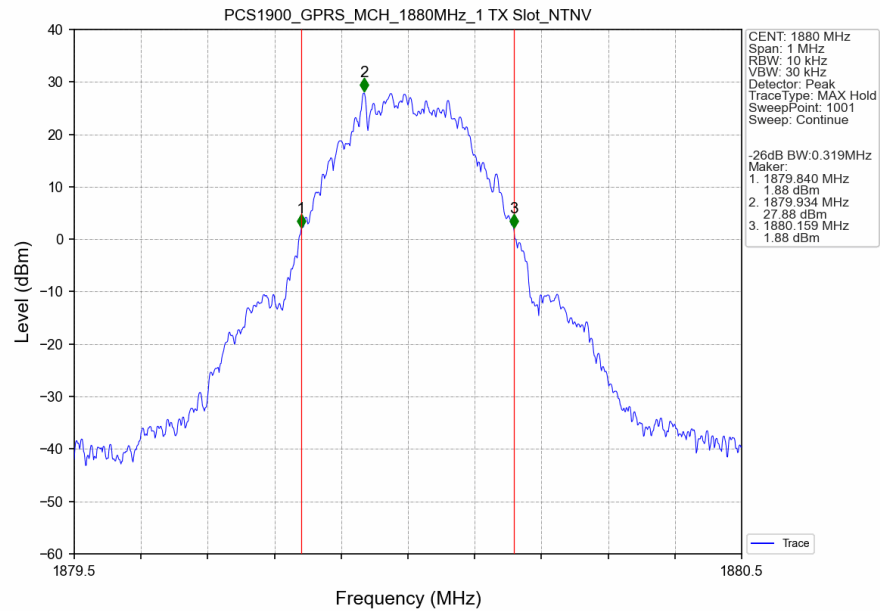
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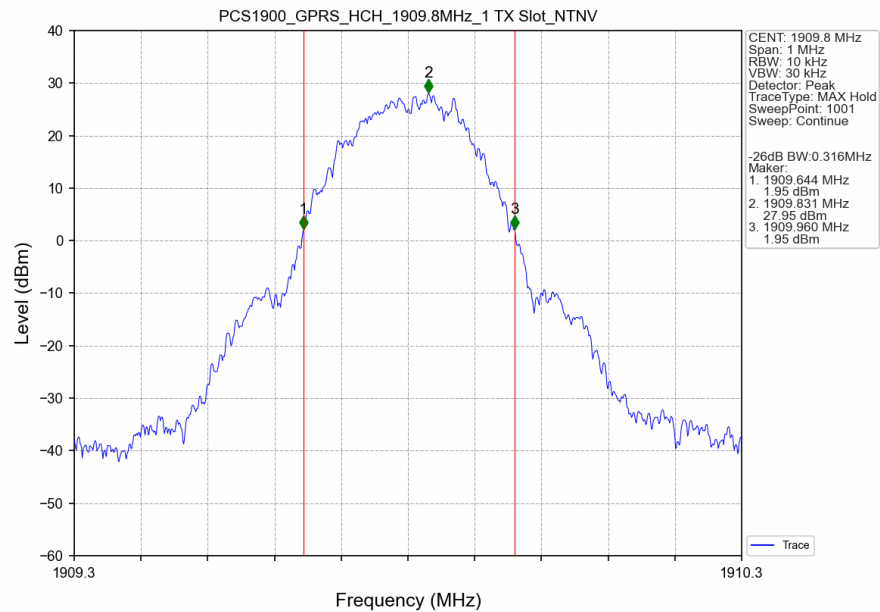
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PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



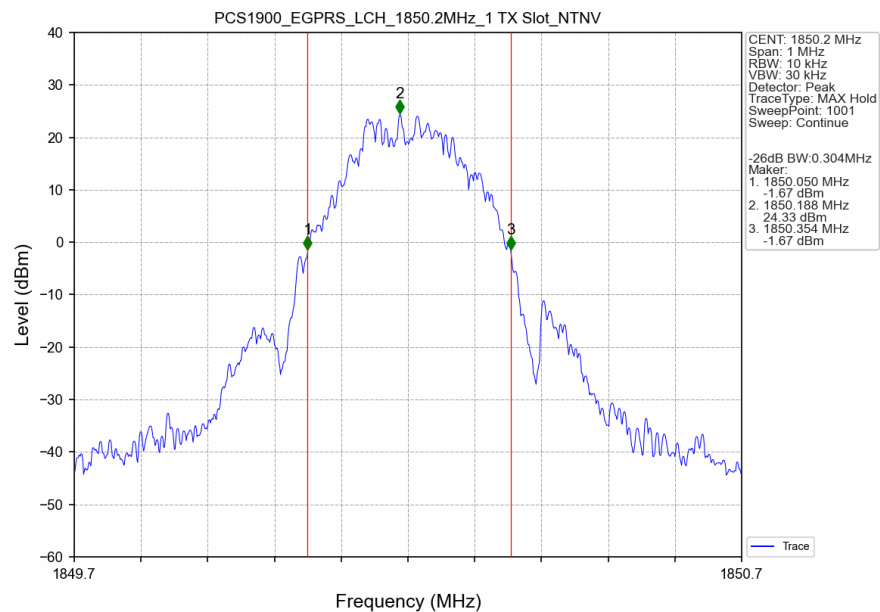
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



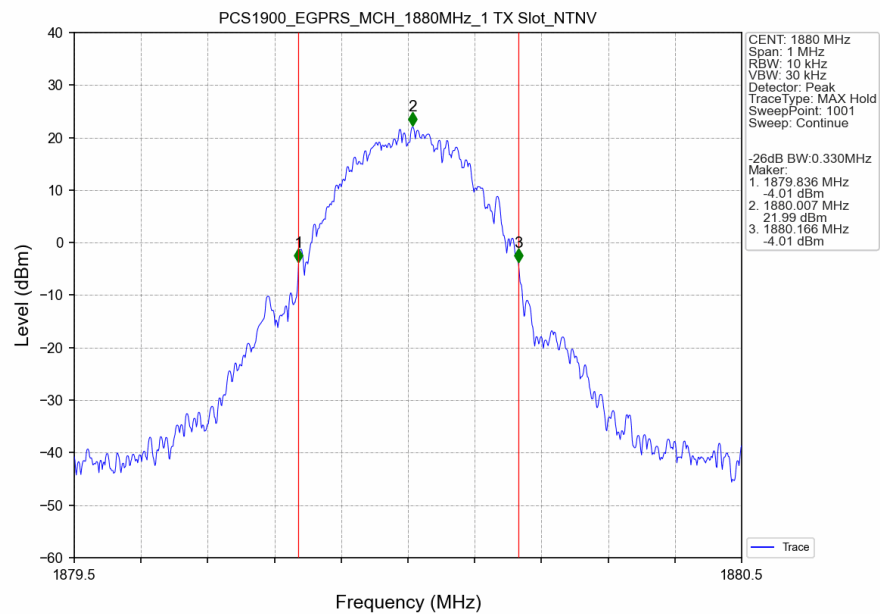
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV

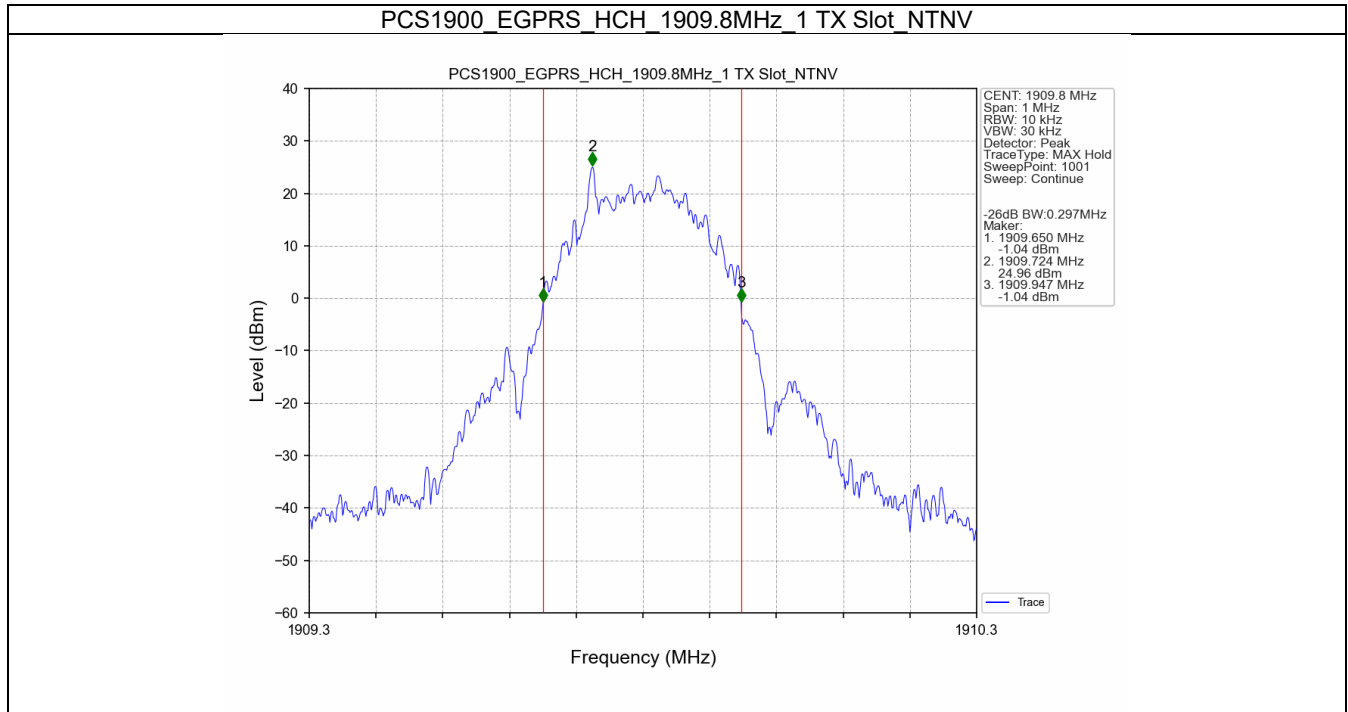


PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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4. Peak-Average Ratio

4.1 Test Result

4.1.1 PCS1900

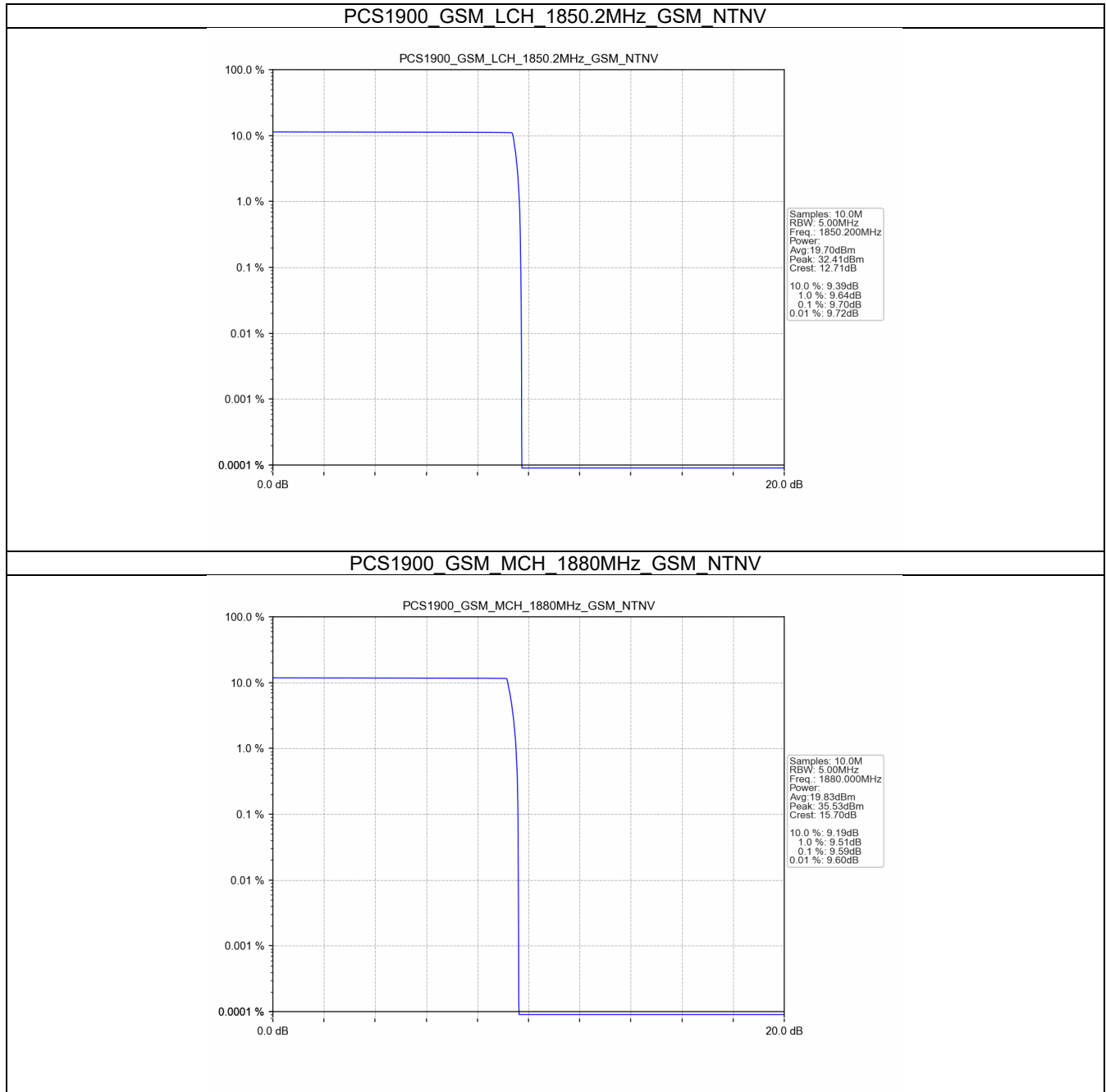
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.70	<=13	Pass
			1880	9.59	<=13	Pass
			1909.8	9.61	<=13	Pass
	GPRS	4 TX Slots	1850.2	4.72	<=13	Pass
			1880	4.71	<=13	Pass
			1909.8	5.22	<=13	Pass
	EGPRS	4 TX Slots	1850.2	11.00	<=13	Pass
			1880	10.80	<=13	Pass
			1909.8	10.92	<=13	Pass

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4.2 Test Graph

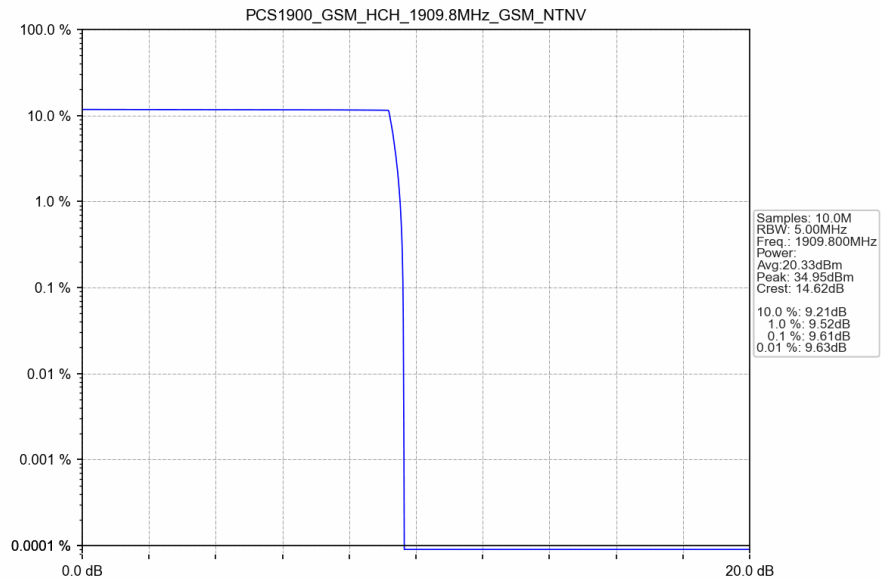
4.2.1 PCS1900



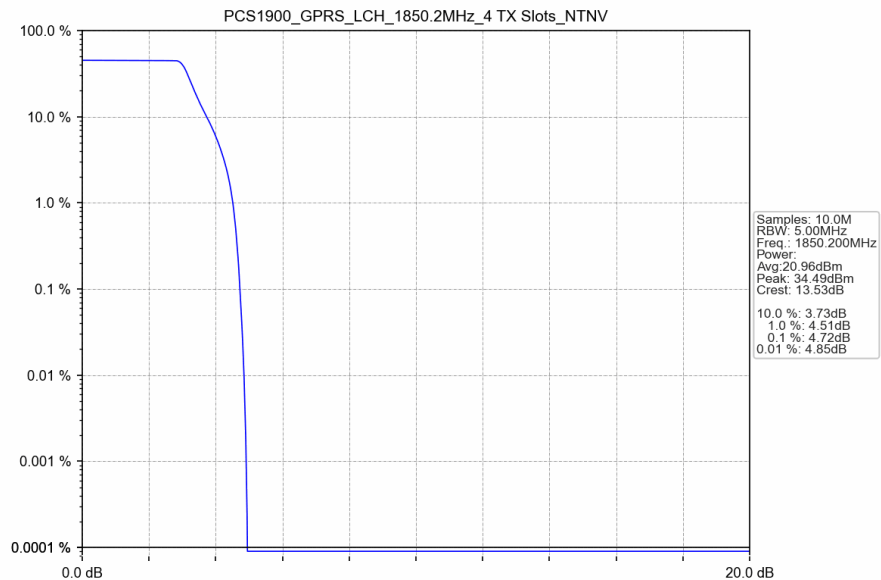
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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



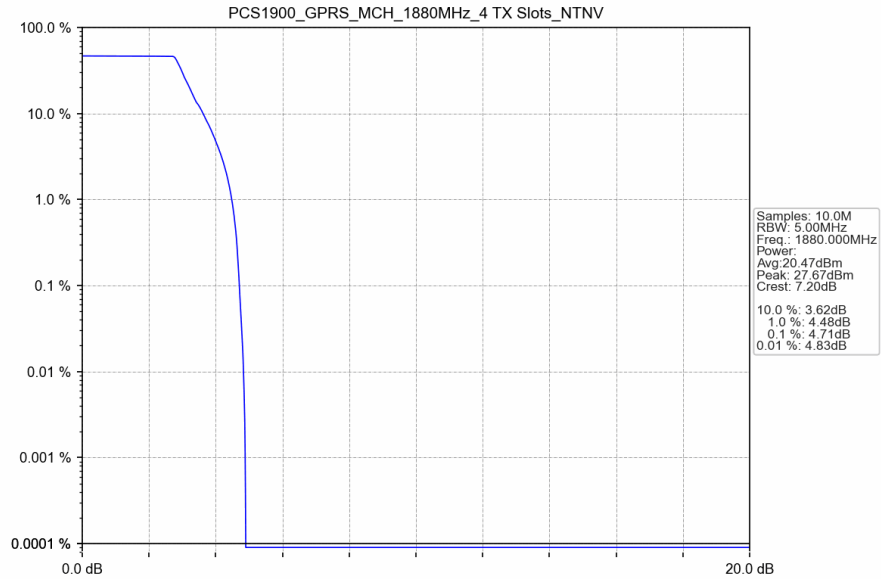
PCS1900_GPRS_LCH_1850.2MHz_4 TX Slots_NTNV



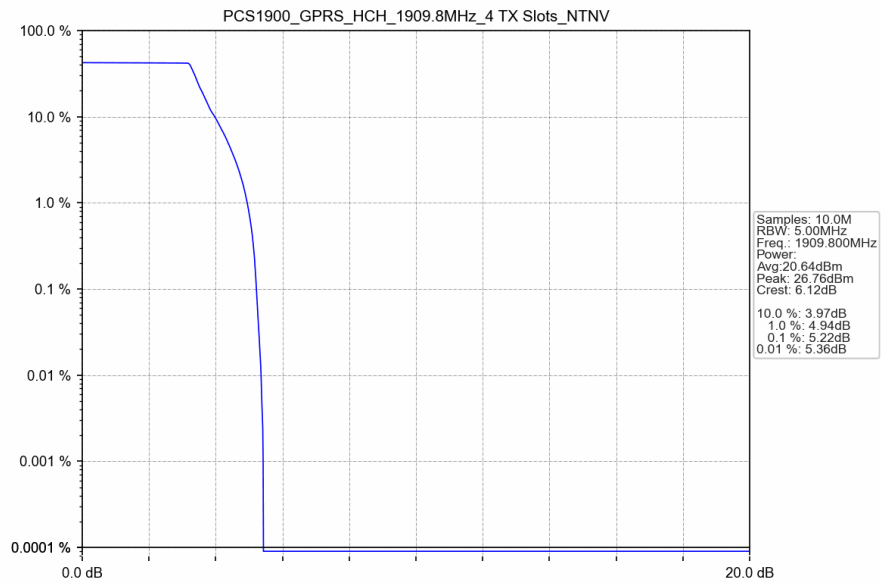
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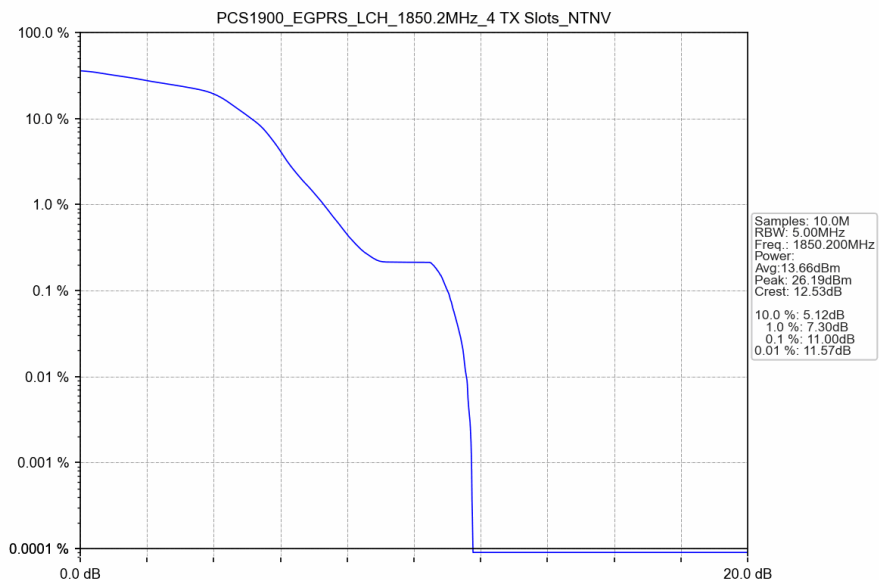
PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



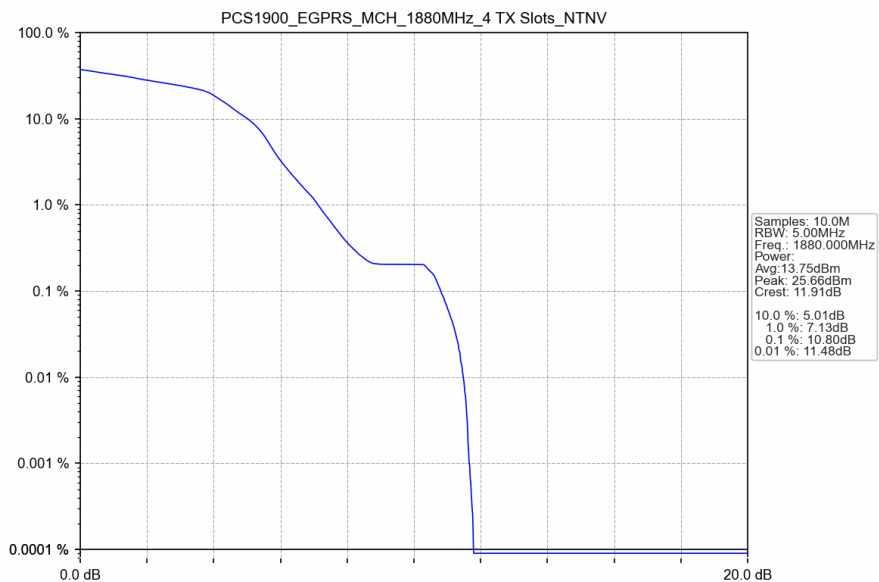
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV

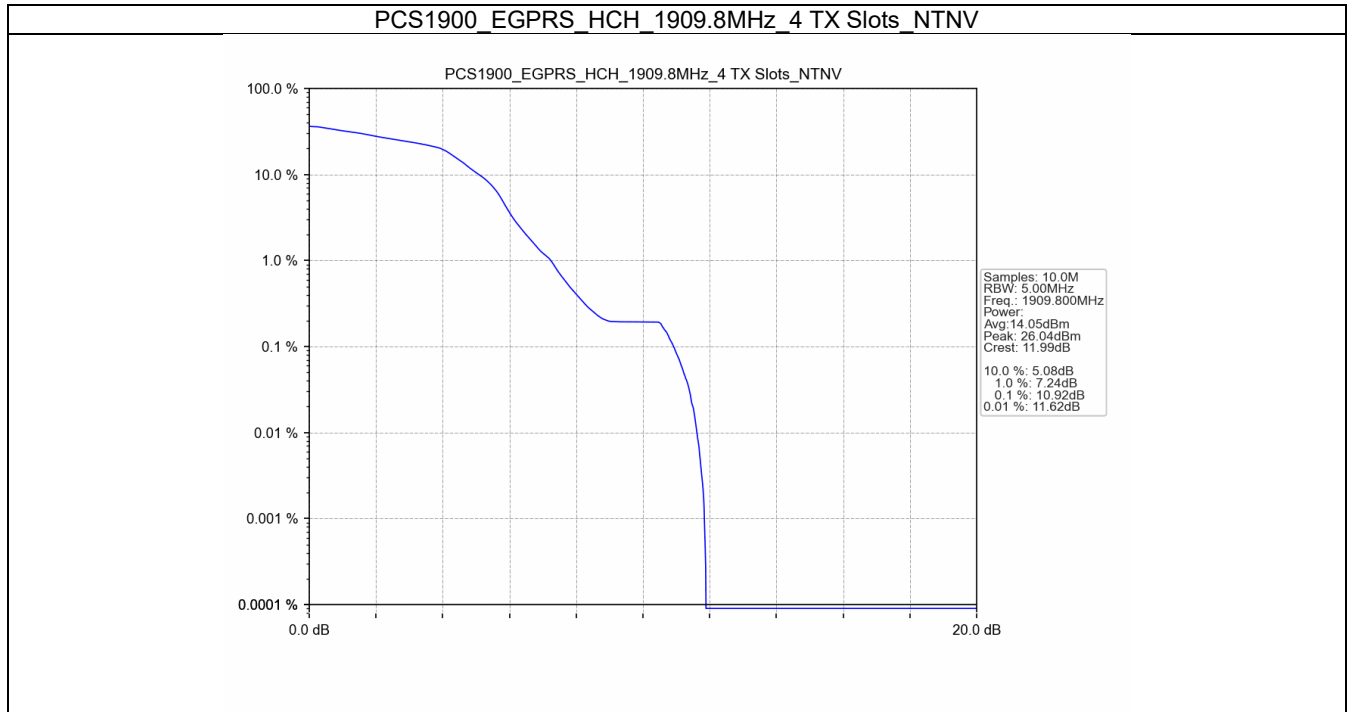


PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV





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5. Spurious Emission

5.1 Test Result

5.1.1 PCS1900

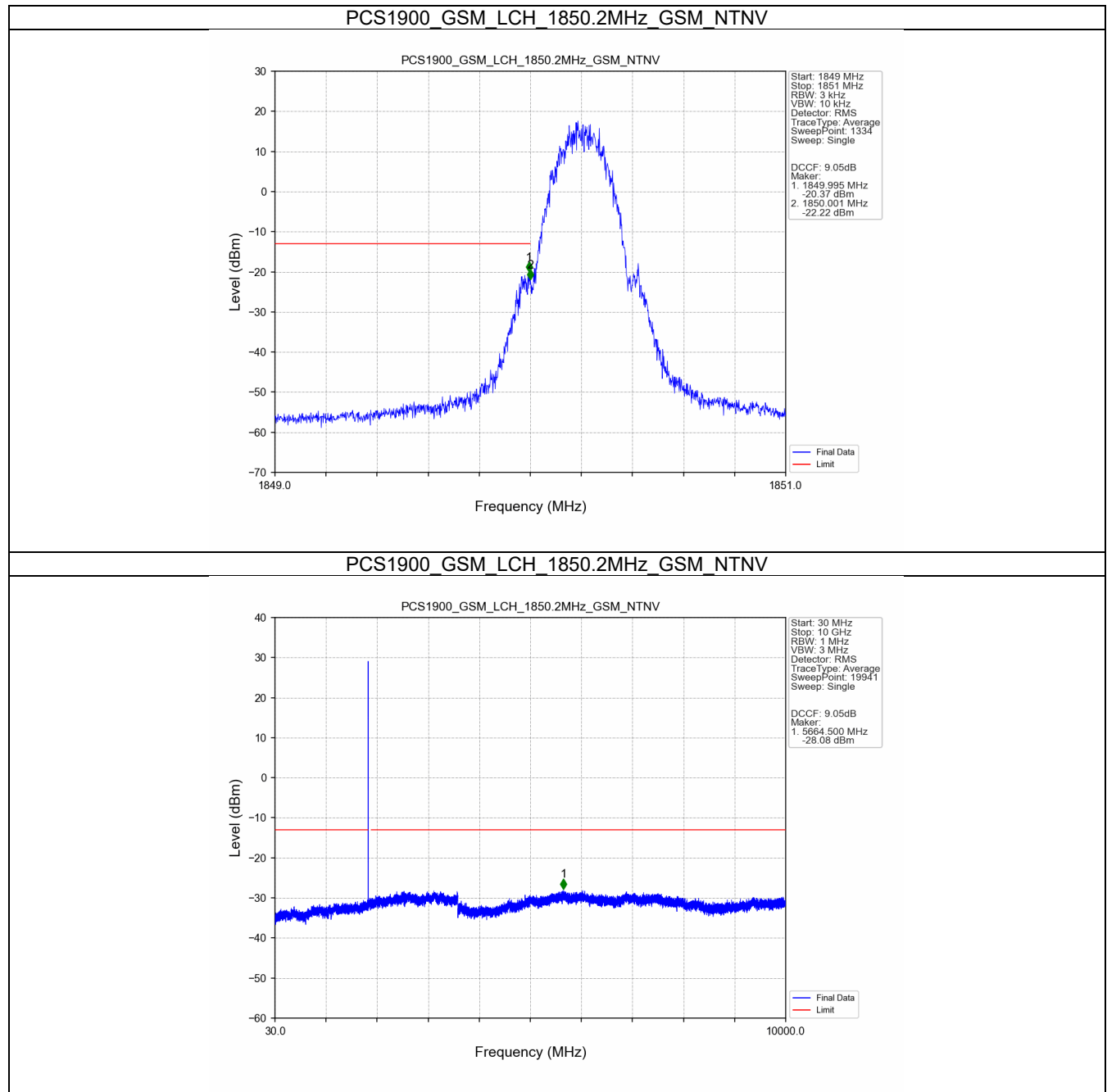
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass

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5.2 Test Graph

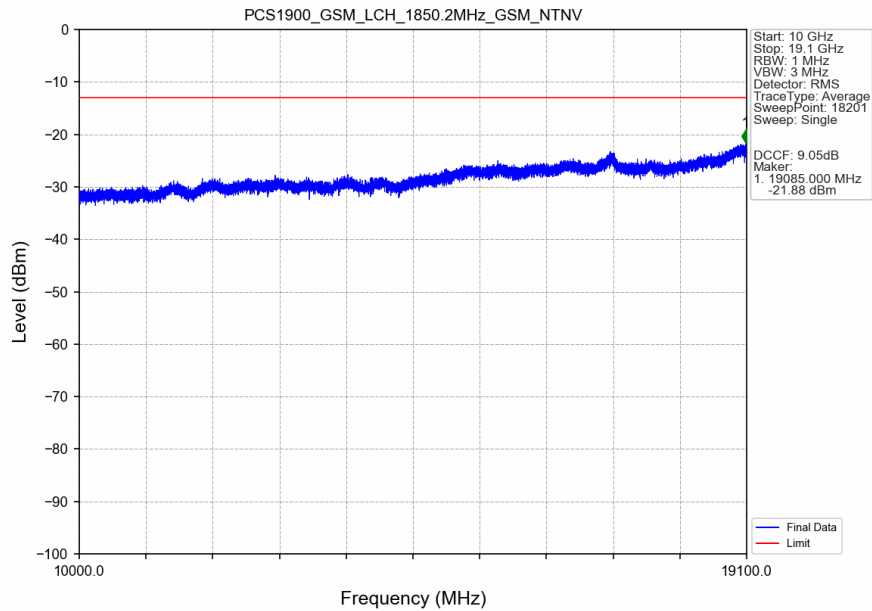
5.2.1 PCS1900



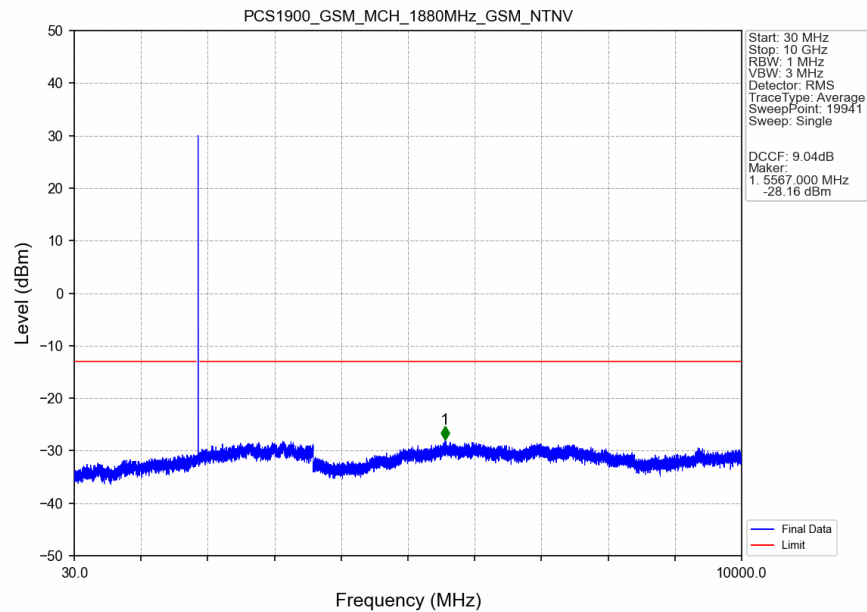
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Report No.: FYCR2605000011AT

PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



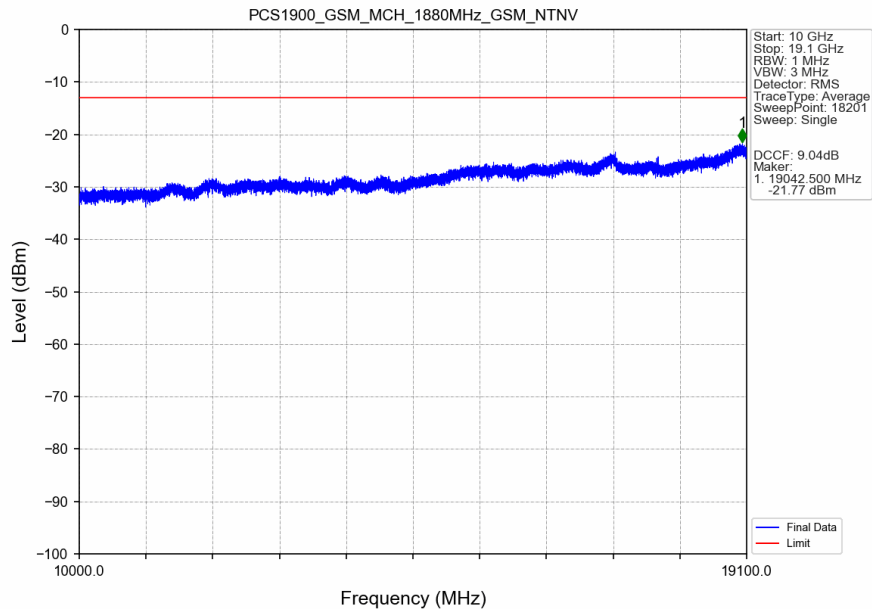
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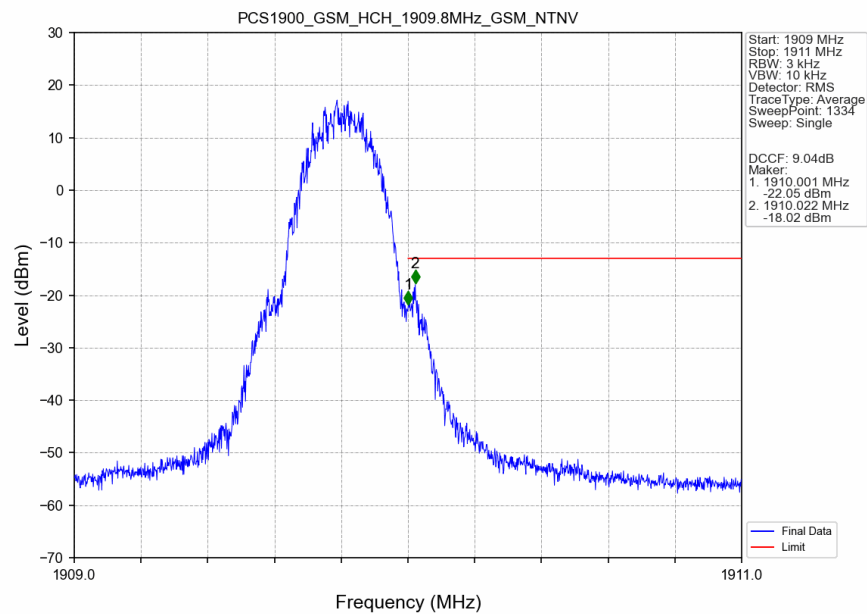
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

PCS1900_GSM_MCH_1880MHz_GSM_NTNV

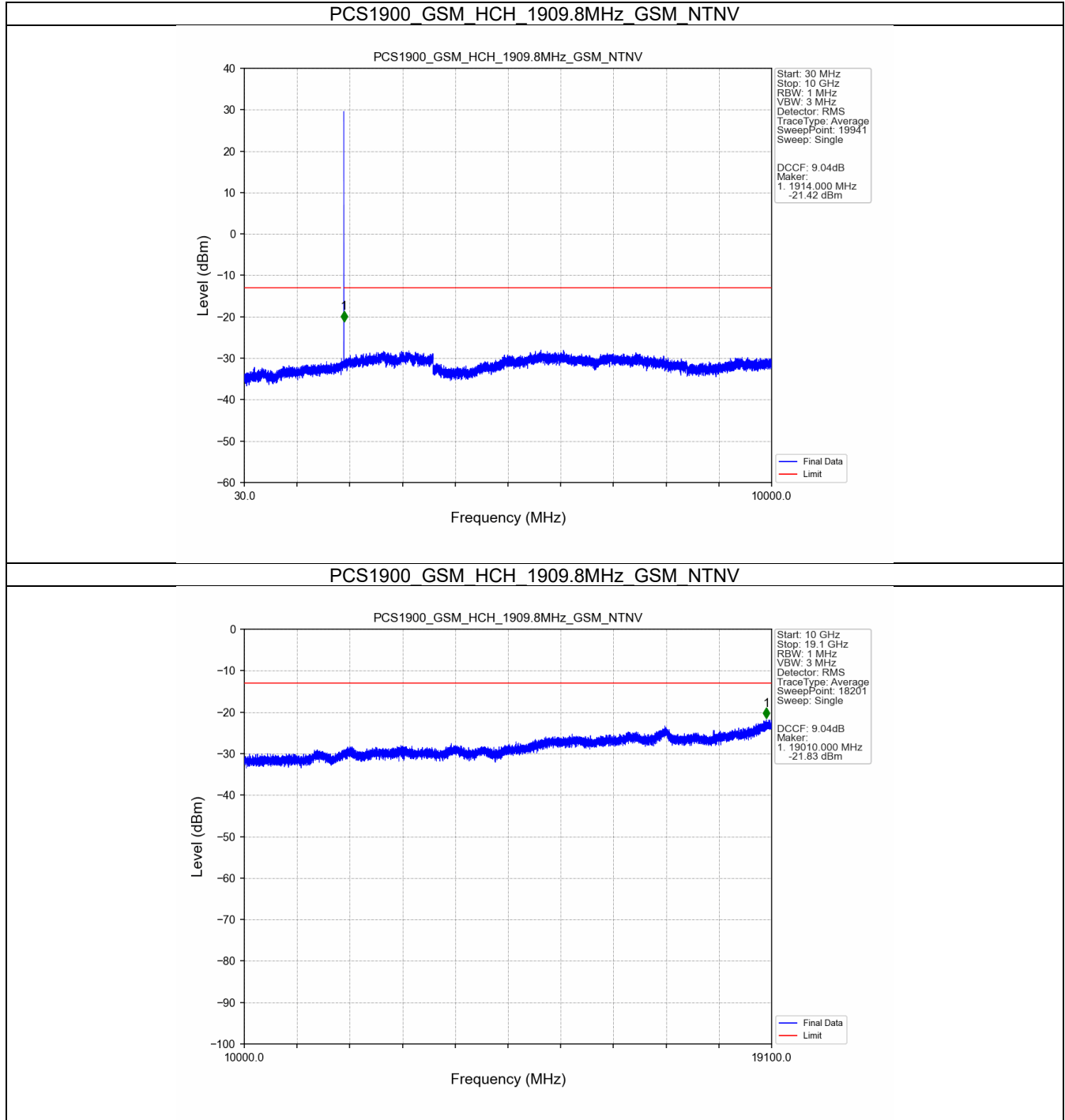


PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

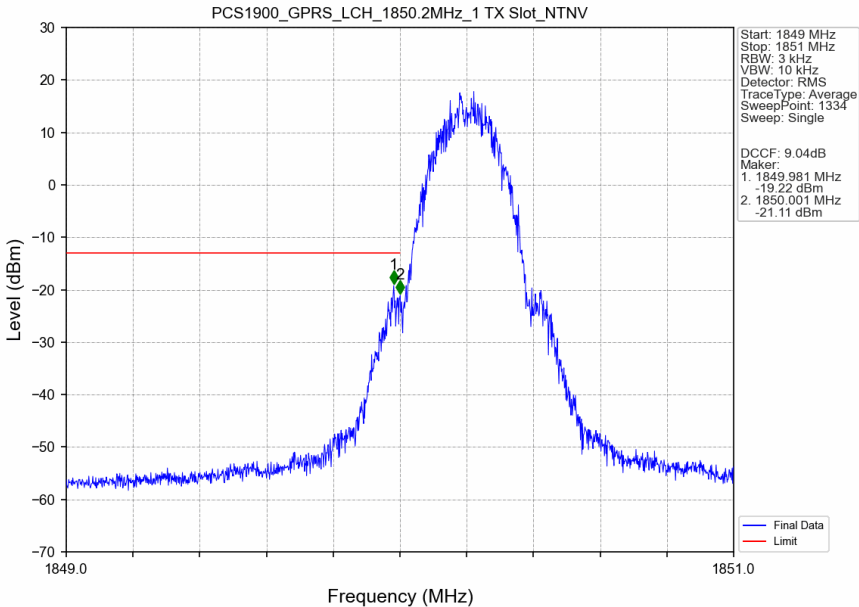
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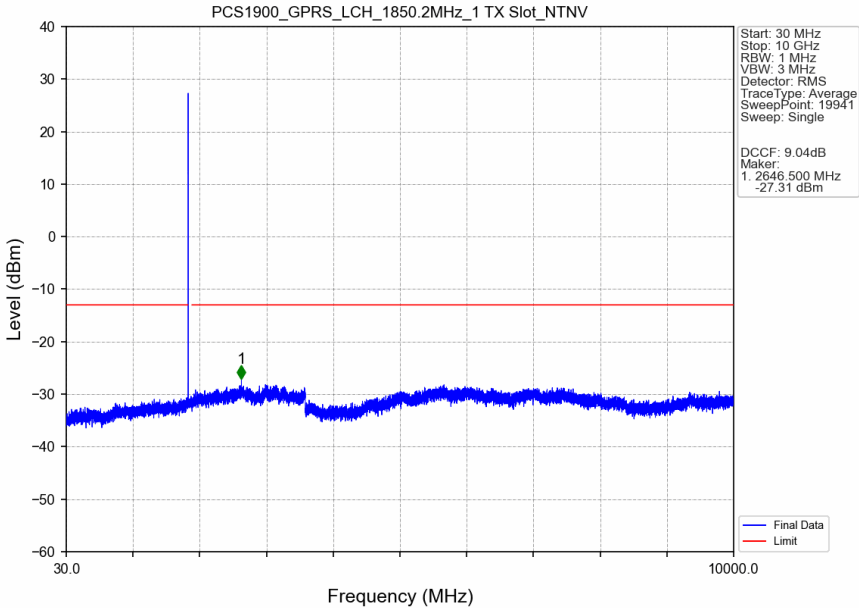
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



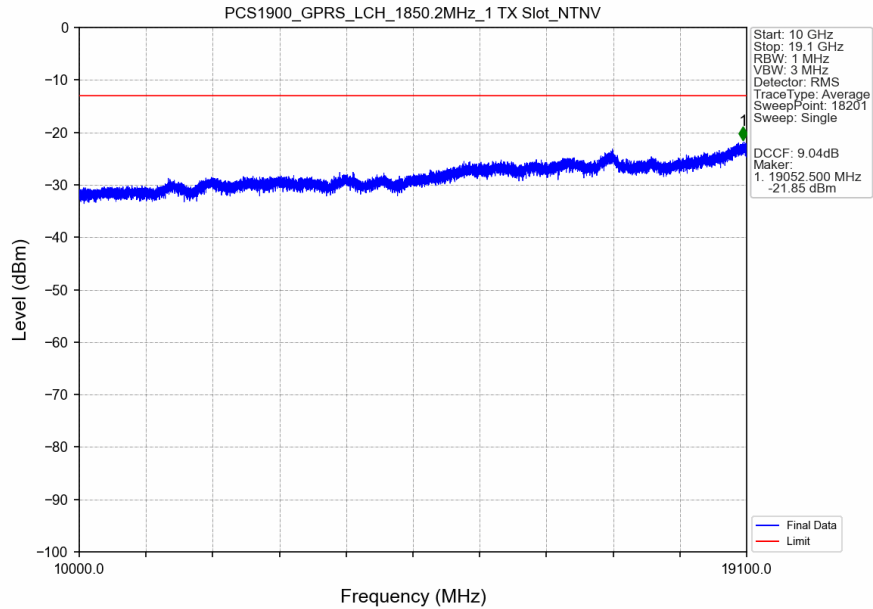
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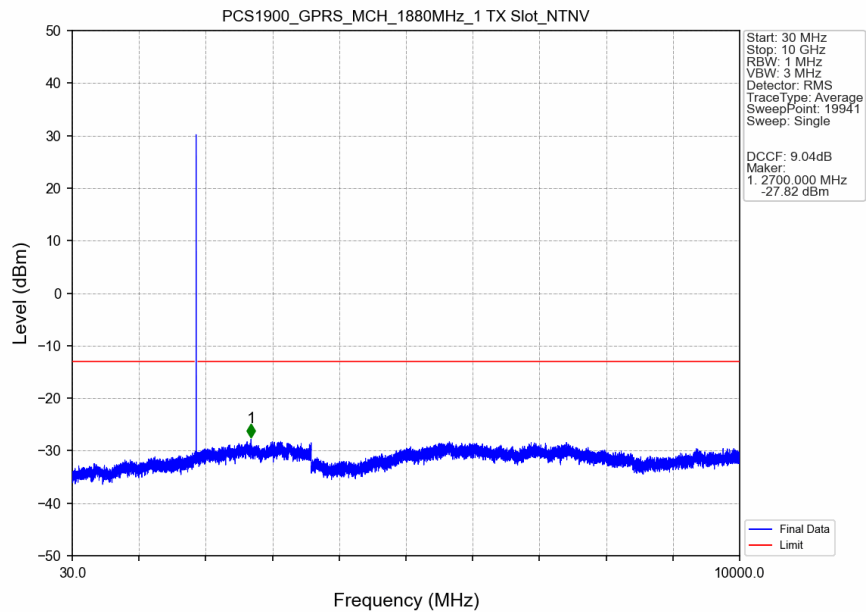
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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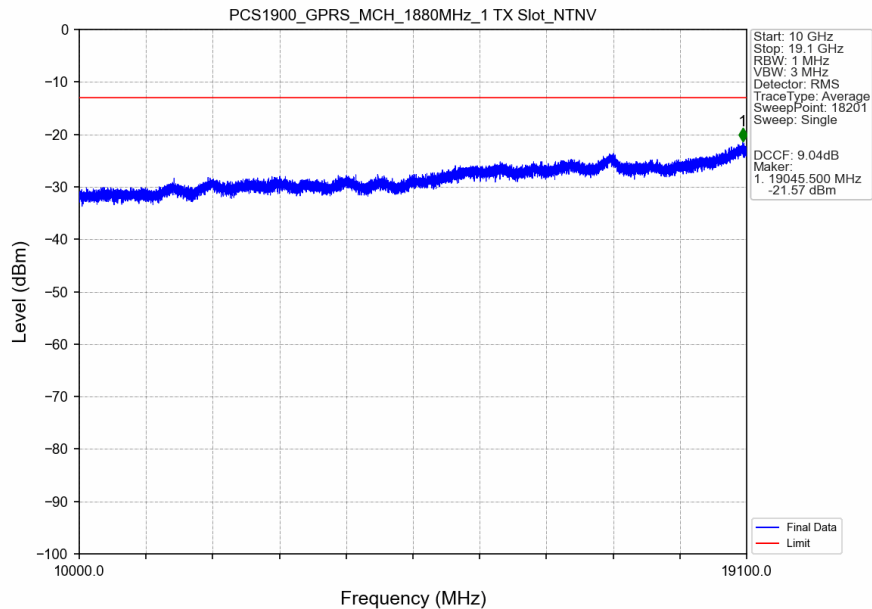
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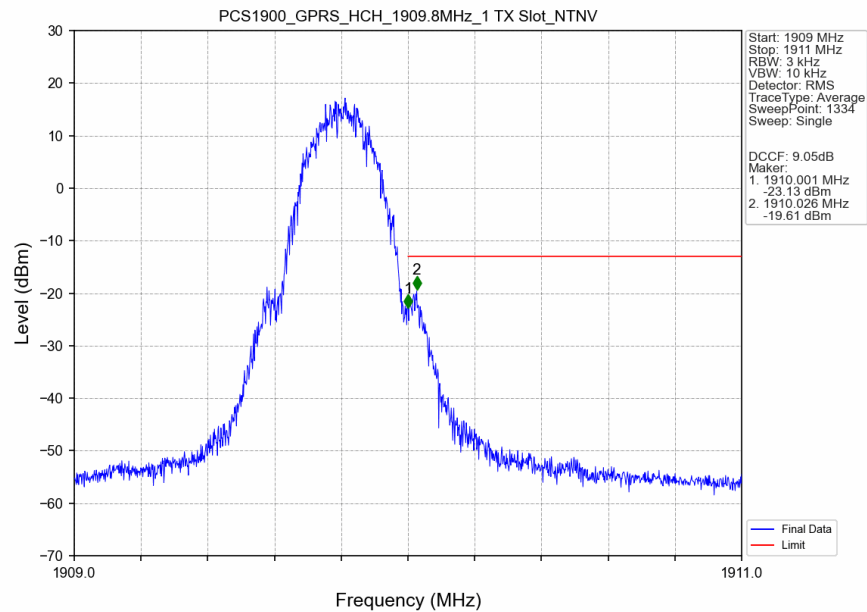
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

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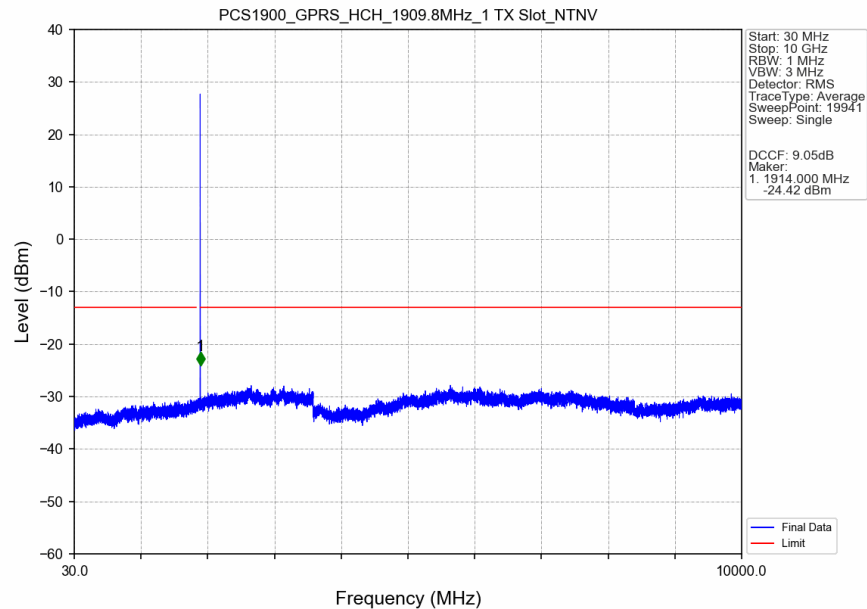
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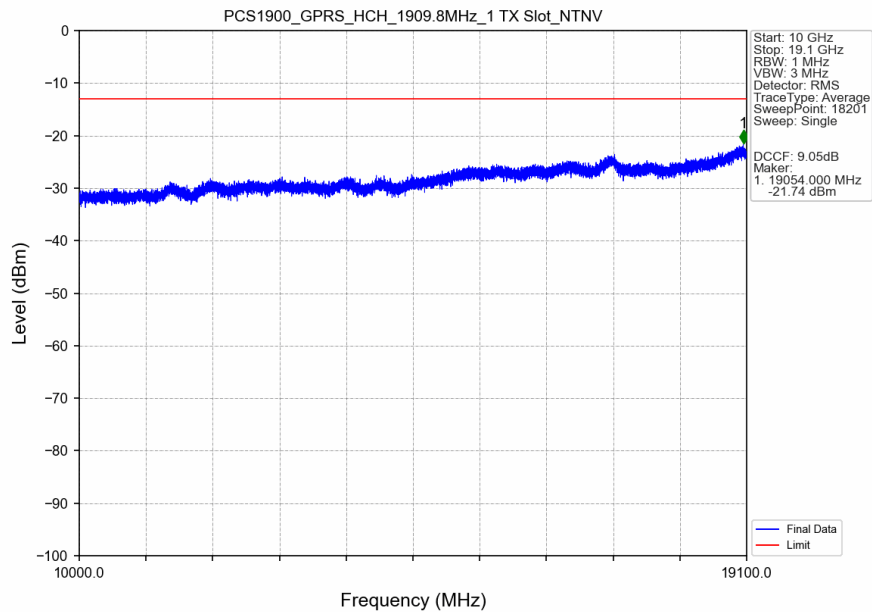
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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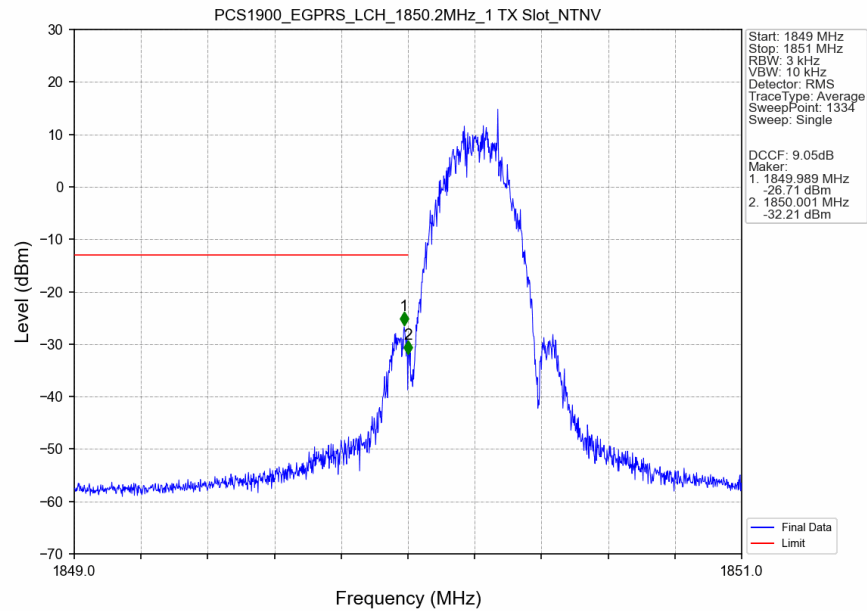
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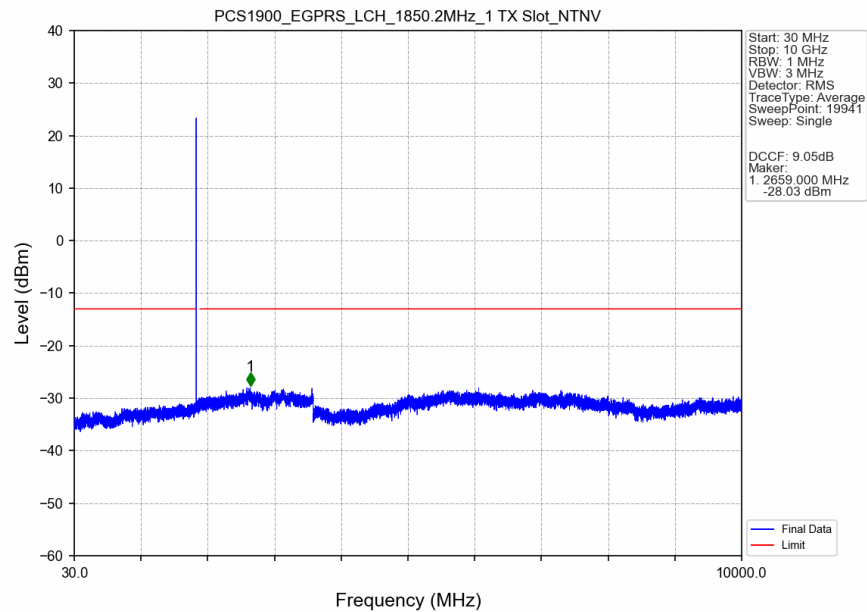
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



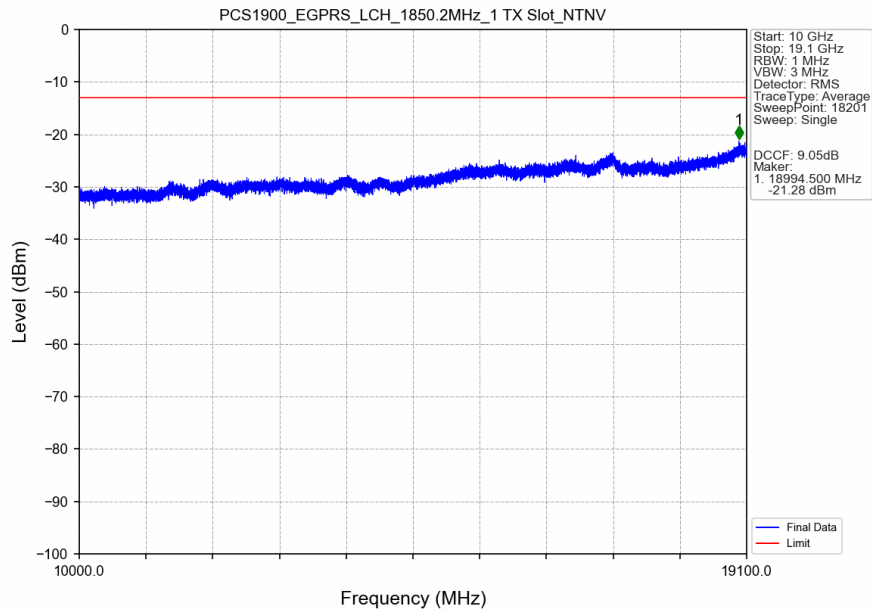
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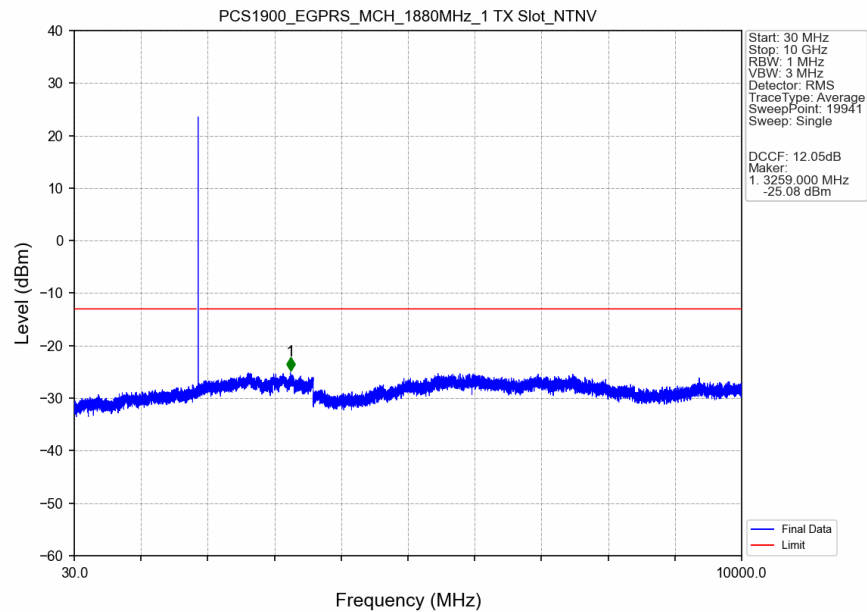
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



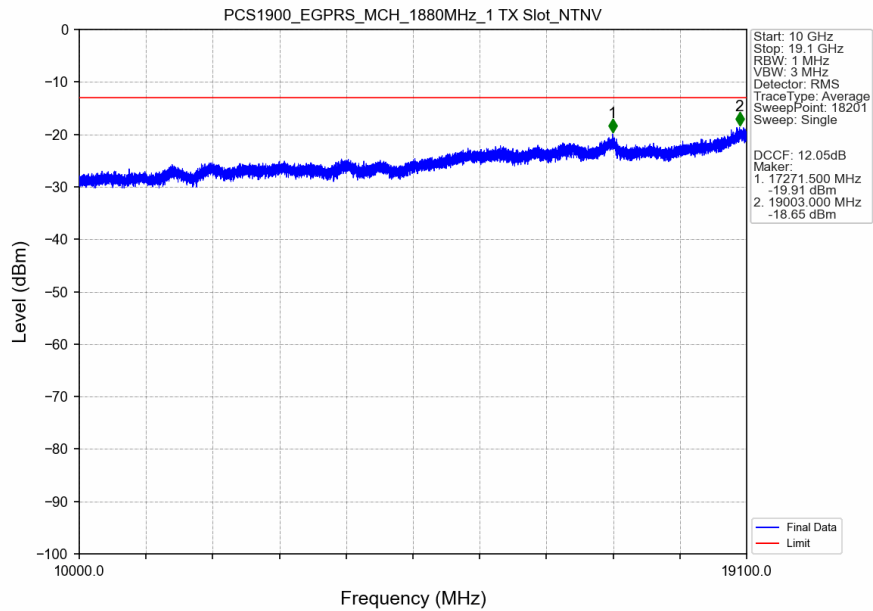
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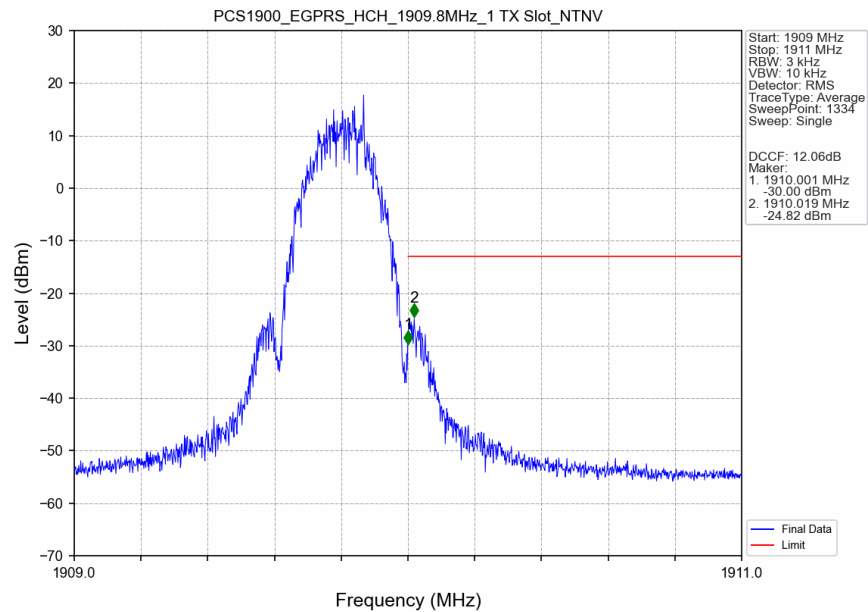
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



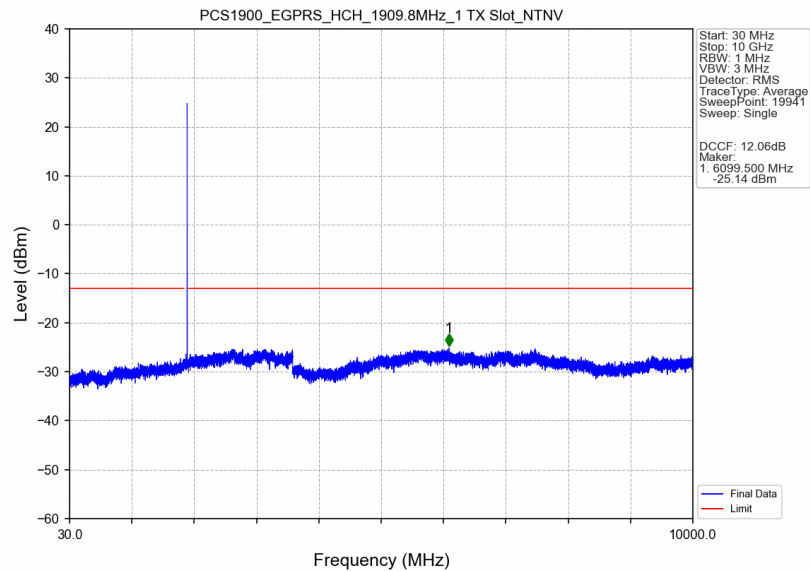
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



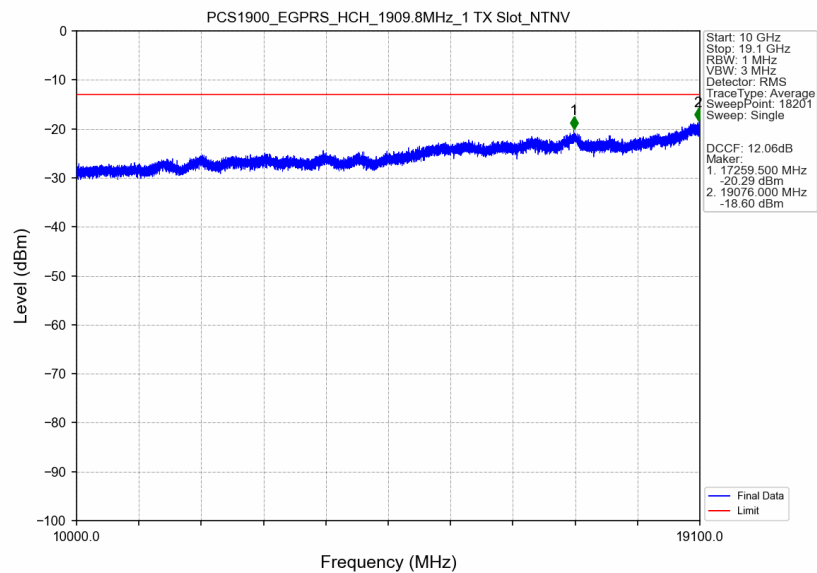
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



- End of the Appendix -