

1.1.1 PCS1900_EIRP

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	
GSM	1850.2	20	LV	12.684	0.0069	-2.5 to 2.5	Pass
			NV	22.698	0.0123	-2.5 to 2.5	Pass
			HV	24.907	0.0135	-2.5 to 2.5	Pass
		-30	NV	24.180	0.0131	-2.5 to 2.5	Pass
		-20	NV	23.704	0.0128	-2.5 to 2.5	Pass
		-10	NV	24.100	0.0130	-2.5 to 2.5	Pass
		0	NV	26.245	0.0142	-2.5 to 2.5	Pass
		10	NV	25.380	0.0137	-2.5 to 2.5	Pass
		30	NV	22.016	0.0119	-2.5 to 2.5	Pass
		40	NV	23.925	0.0129	-2.5 to 2.5	Pass
		50	NV	30.841	0.0167	-2.5 to 2.5	Pass
	1880	20	LV	21.987	0.0117	-2.5 to 2.5	Pass
			NV	23.183	0.0123	-2.5 to 2.5	Pass
			HV	22.304	0.0119	-2.5 to 2.5	Pass
		-30	NV	23.314	0.0124	-2.5 to 2.5	Pass
		-20	NV	17.683	0.0094	-2.5 to 2.5	Pass
		-10	NV	18.202	0.0097	-2.5 to 2.5	Pass
		0	NV	11.253	0.0060	-2.5 to 2.5	Pass
		10	NV	20.554	0.0109	-2.5 to 2.5	Pass
		30	NV	23.728	0.0126	-2.5 to 2.5	Pass
		40	NV	19.040	0.0101	-2.5 to 2.5	Pass
		50	NV	23.190	0.0123	-2.5 to 2.5	Pass
	1909.8	20	LV	21.152	0.0111	-2.5 to 2.5	Pass
			NV	22.030	0.0115	-2.5 to 2.5	Pass
			HV	21.772	0.0114	-2.5 to 2.5	Pass
		-30	NV	20.058	0.0105	-2.5 to 2.5	Pass
		-20	NV	21.905	0.0115	-2.5 to 2.5	Pass
		-10	NV	18.252	0.0096	-2.5 to 2.5	Pass
		0	NV	20.343	0.0107	-2.5 to 2.5	Pass
		10	NV	19.080	0.0100	-2.5 to 2.5	Pass
		30	NV	25.060	0.0131	-2.5 to 2.5	Pass
		40	NV	14.923	0.0078	-2.5 to 2.5	Pass
		50	NV	19.034	0.0100	-2.5 to 2.5	Pass
GPRS	1850.2	20	LV	22.869	0.0124	-2.5 to 2.5	Pass
			NV	27.486	0.0149	-2.5 to 2.5	Pass
			HV	28.149	0.0152	-2.5 to 2.5	Pass
		-30	NV	34.451	0.0186	-2.5 to 2.5	Pass
		-20	NV	28.148	0.0152	-2.5 to 2.5	Pass
		-10	NV	31.042	0.0168	-2.5 to 2.5	Pass
		0	NV	28.926	0.0156	-2.5 to 2.5	Pass
		10	NV	23.175	0.0125	-2.5 to 2.5	Pass
		30	NV	24.538	0.0133	-2.5 to 2.5	Pass
		40	NV	30.629	0.0166	-2.5 to 2.5	Pass
		50	NV	29.569	0.0160	-2.5 to 2.5	Pass
	1880	20	LV	30.370	0.0162	-2.5 to 2.5	Pass
			NV	31.163	0.0166	-2.5 to 2.5	Pass
			HV	29.677	0.0158	-2.5 to 2.5	Pass

		-30	NV	30.405	0.0162	-2.5 to 2.5	Pass
		-20	NV	30.660	0.0163	-2.5 to 2.5	Pass
		-10	NV	26.178	0.0139	-2.5 to 2.5	Pass
		0	NV	31.993	0.0170	-2.5 to 2.5	Pass
		10	NV	31.390	0.0167	-2.5 to 2.5	Pass
		30	NV	34.605	0.0184	-2.5 to 2.5	Pass
		40	NV	31.991	0.0170	-2.5 to 2.5	Pass
		50	NV	30.493	0.0162	-2.5 to 2.5	Pass
	1909.8	20	LV	30.059	0.0157	-2.5 to 2.5	Pass
			NV	33.517	0.0176	-2.5 to 2.5	Pass
			HV	29.807	0.0156	-2.5 to 2.5	Pass
		-30	NV	27.330	0.0143	-2.5 to 2.5	Pass
		-20	NV	29.545	0.0155	-2.5 to 2.5	Pass
		-10	NV	38.798	0.0203	-2.5 to 2.5	Pass
		0	NV	33.445	0.0175	-2.5 to 2.5	Pass
		10	NV	32.223	0.0169	-2.5 to 2.5	Pass
		30	NV	32.554	0.0170	-2.5 to 2.5	Pass
		40	NV	29.126	0.0153	-2.5 to 2.5	Pass
		50	NV	26.016	0.0136	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	24.679	0.0133	-2.5 to 2.5	Pass
			NV	16.405	0.0089	-2.5 to 2.5	Pass
			HV	26.732	0.0144	-2.5 to 2.5	Pass
		-30	NV	25.618	0.0138	-2.5 to 2.5	Pass
		-20	NV	39.785	0.0215	-2.5 to 2.5	Pass
		-10	NV	29.646	0.0160	-2.5 to 2.5	Pass
		0	NV	30.481	0.0165	-2.5 to 2.5	Pass
		10	NV	30.811	0.0167	-2.5 to 2.5	Pass
		30	NV	29.574	0.0160	-2.5 to 2.5	Pass
		40	NV	29.069	0.0157	-2.5 to 2.5	Pass
		50	NV	25.963	0.0140	-2.5 to 2.5	Pass
	1880	20	LV	27.951	0.0149	-2.5 to 2.5	Pass
			NV	29.906	0.0159	-2.5 to 2.5	Pass
			HV	28.676	0.0153	-2.5 to 2.5	Pass
		-30	NV	31.119	0.0166	-2.5 to 2.5	Pass
		-20	NV	30.186	0.0161	-2.5 to 2.5	Pass
		-10	NV	29.768	0.0158	-2.5 to 2.5	Pass
		0	NV	27.322	0.0145	-2.5 to 2.5	Pass
		10	NV	27.656	0.0147	-2.5 to 2.5	Pass
		30	NV	29.516	0.0157	-2.5 to 2.5	Pass
		40	NV	26.653	0.0142	-2.5 to 2.5	Pass
		50	NV	27.524	0.0146	-2.5 to 2.5	Pass
	1909.8	20	LV	30.122	0.0158	-2.5 to 2.5	Pass
			NV	30.960	0.0162	-2.5 to 2.5	Pass
			HV	28.791	0.0151	-2.5 to 2.5	Pass
		-30	NV	27.725	0.0145	-2.5 to 2.5	Pass
		-20	NV	29.343	0.0154	-2.5 to 2.5	Pass
		-10	NV	29.186	0.0153	-2.5 to 2.5	Pass
		0	NV	29.459	0.0154	-2.5 to 2.5	Pass
		10	NV	25.773	0.0135	-2.5 to 2.5	Pass
		30	NV	20.954	0.0110	-2.5 to 2.5	Pass
		40	NV	28.948	0.0152	-2.5 to 2.5	Pass
		50	NV	28.752	0.0151	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

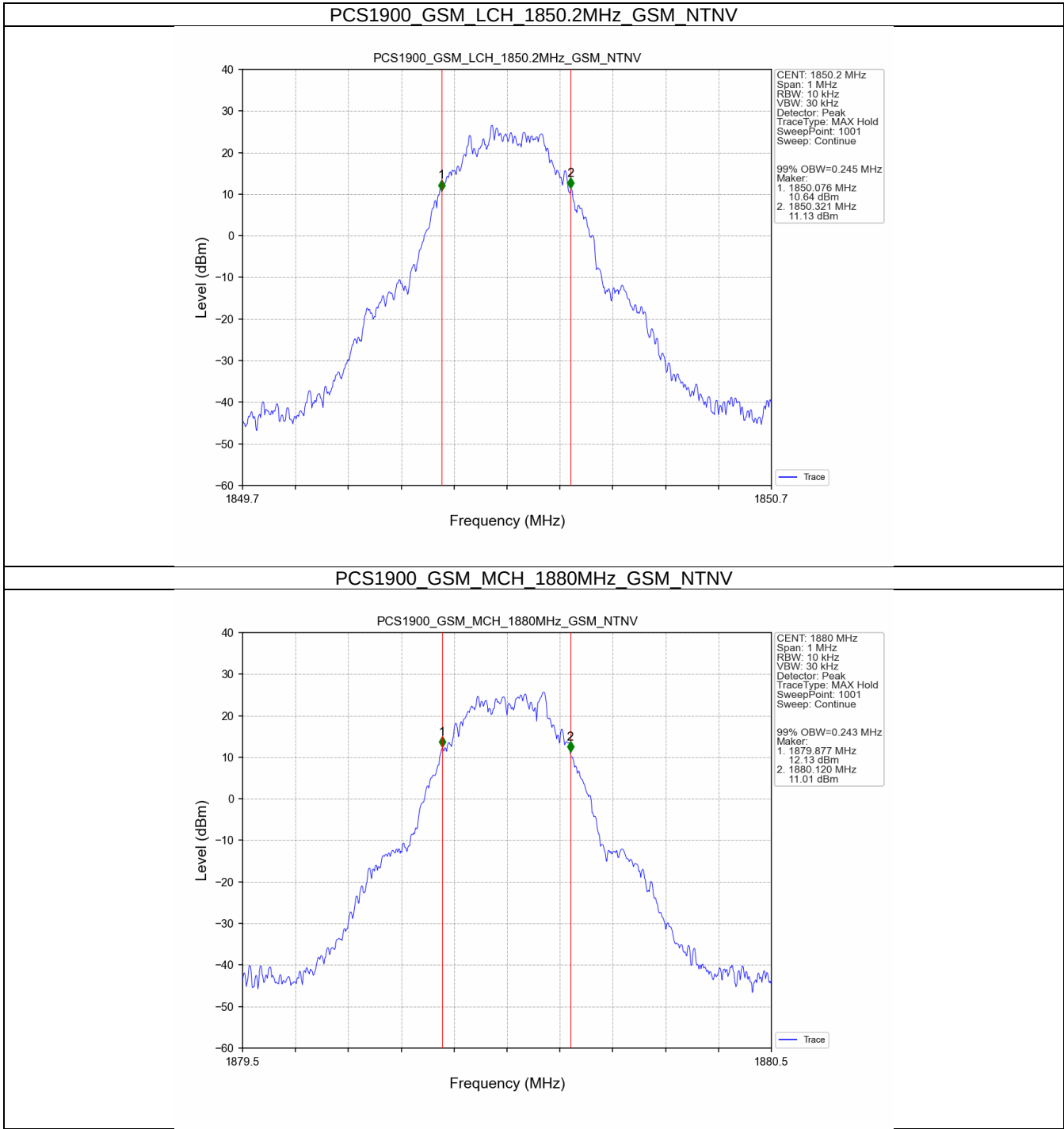
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.245	/	Pass
			1880	0.243	/	Pass
			1909.8	0.243	/	Pass
	GPRS	1 TX Slot	1850.2	0.243	/	Pass
			1880	0.245	/	Pass
			1909.8	0.250	/	Pass
	EGPRS	1 TX Slot	1850.2	0.240	/	Pass
			1880	0.232	/	Pass
			1909.8	0.245	/	Pass

3.1.2 PCS1900_XDB

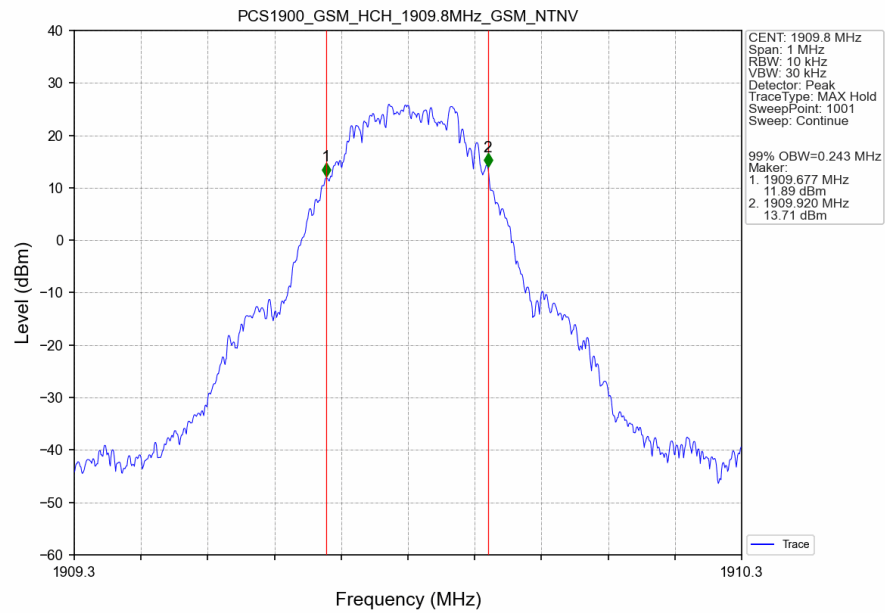
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.311	/	Pass
			1880	0.316	/	Pass
			1909.8	0.315	/	Pass
	GPRS	1 TX Slot	1850.2	0.315	/	Pass
			1880	0.308	/	Pass
			1909.8	0.326	/	Pass
	EGPRS	1 TX Slot	1850.2	0.304	/	Pass
			1880	0.303	/	Pass
			1909.8	0.314	/	Pass

3.2 Test Graph

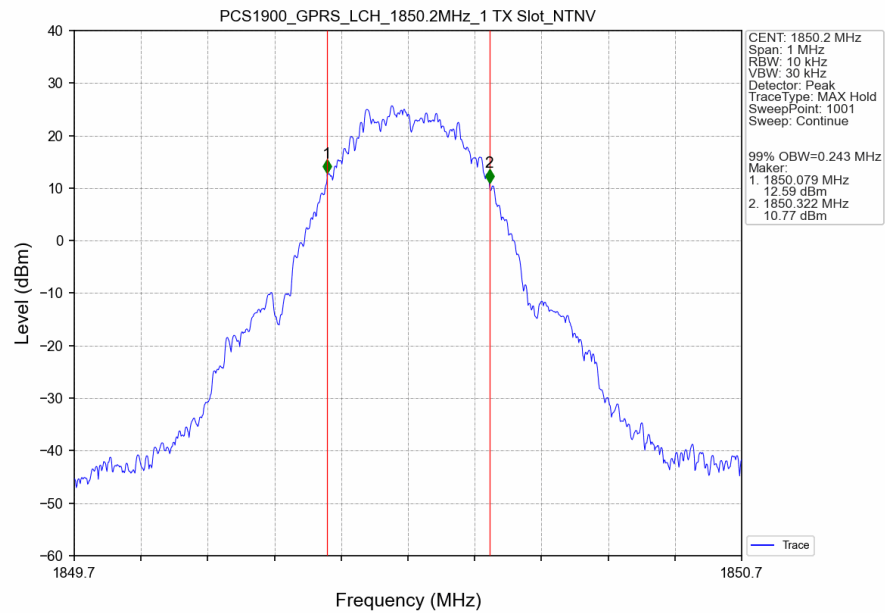
3.2.1 PCS1900_OBW



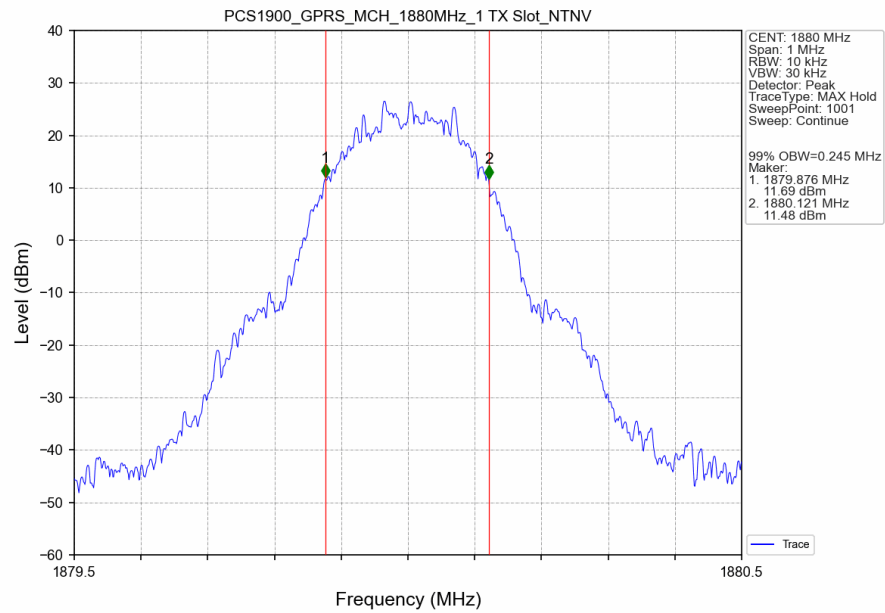
PCS1900 GSM HCH 1909.8MHz GSM NTN



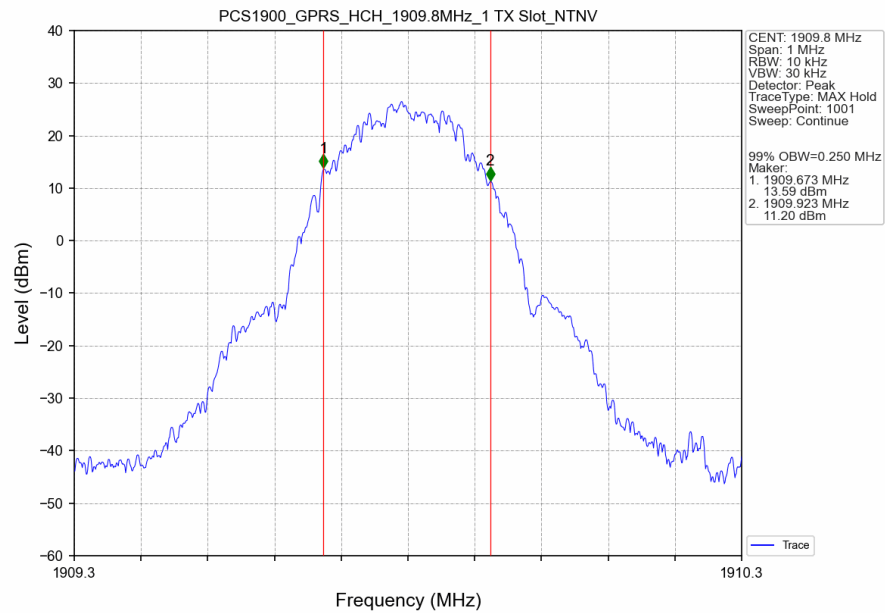
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTN



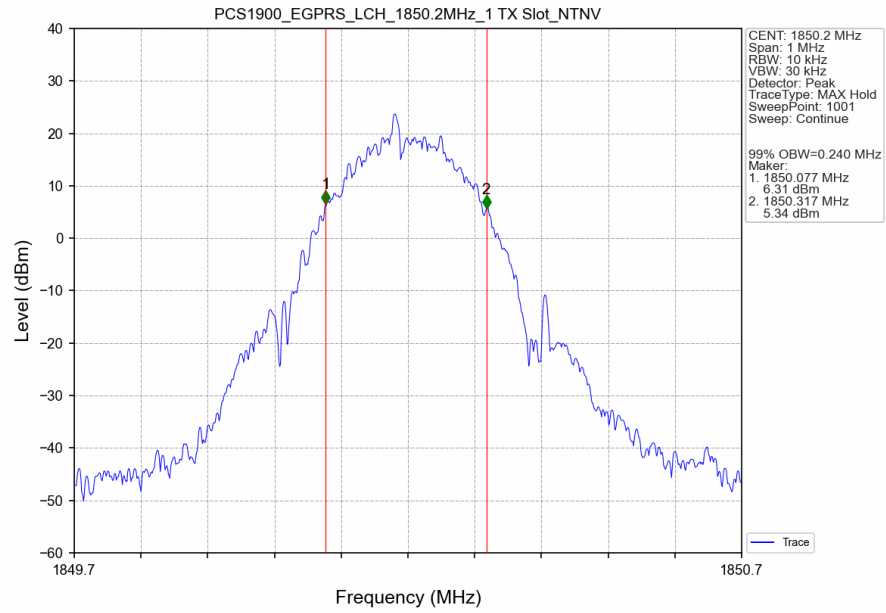
PCS1900 GPRS MCH 1880MHz 1 TX Slot_NTNV



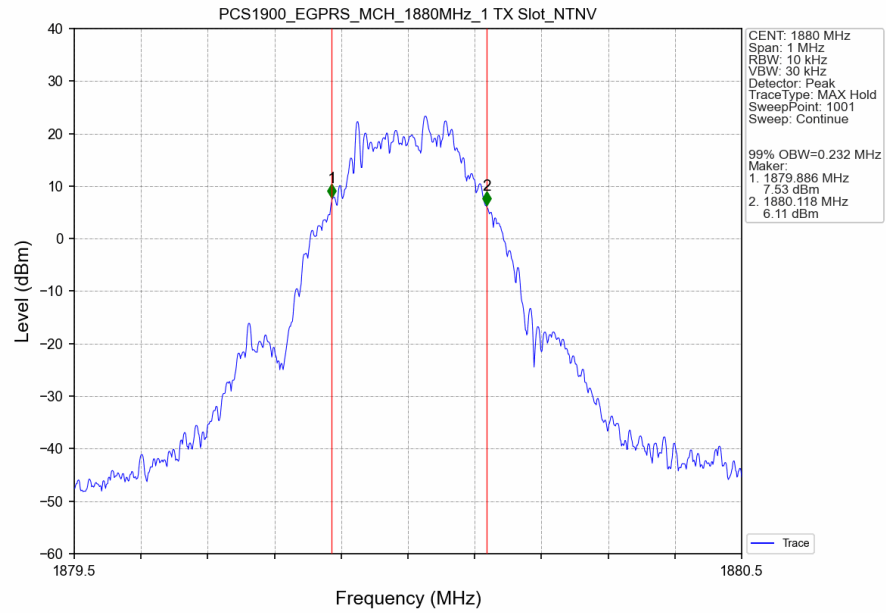
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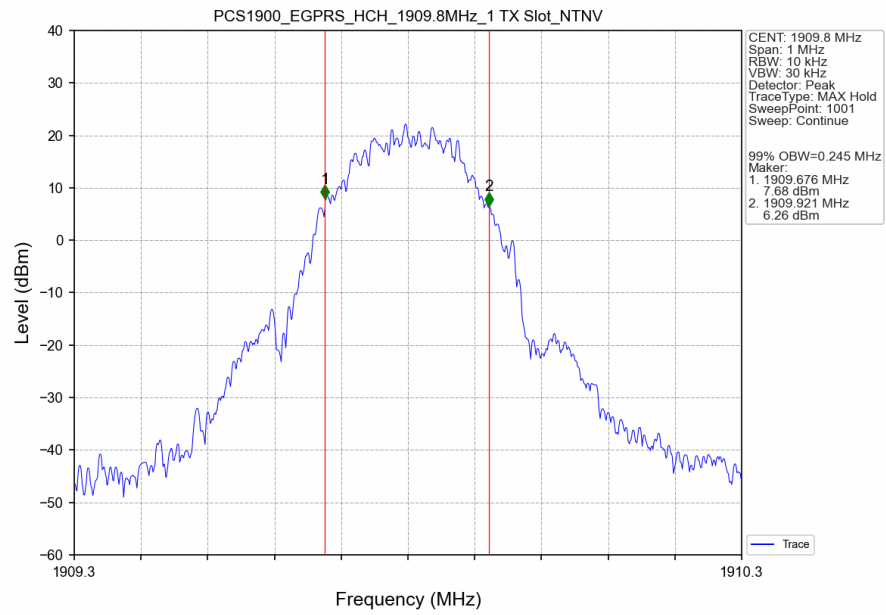
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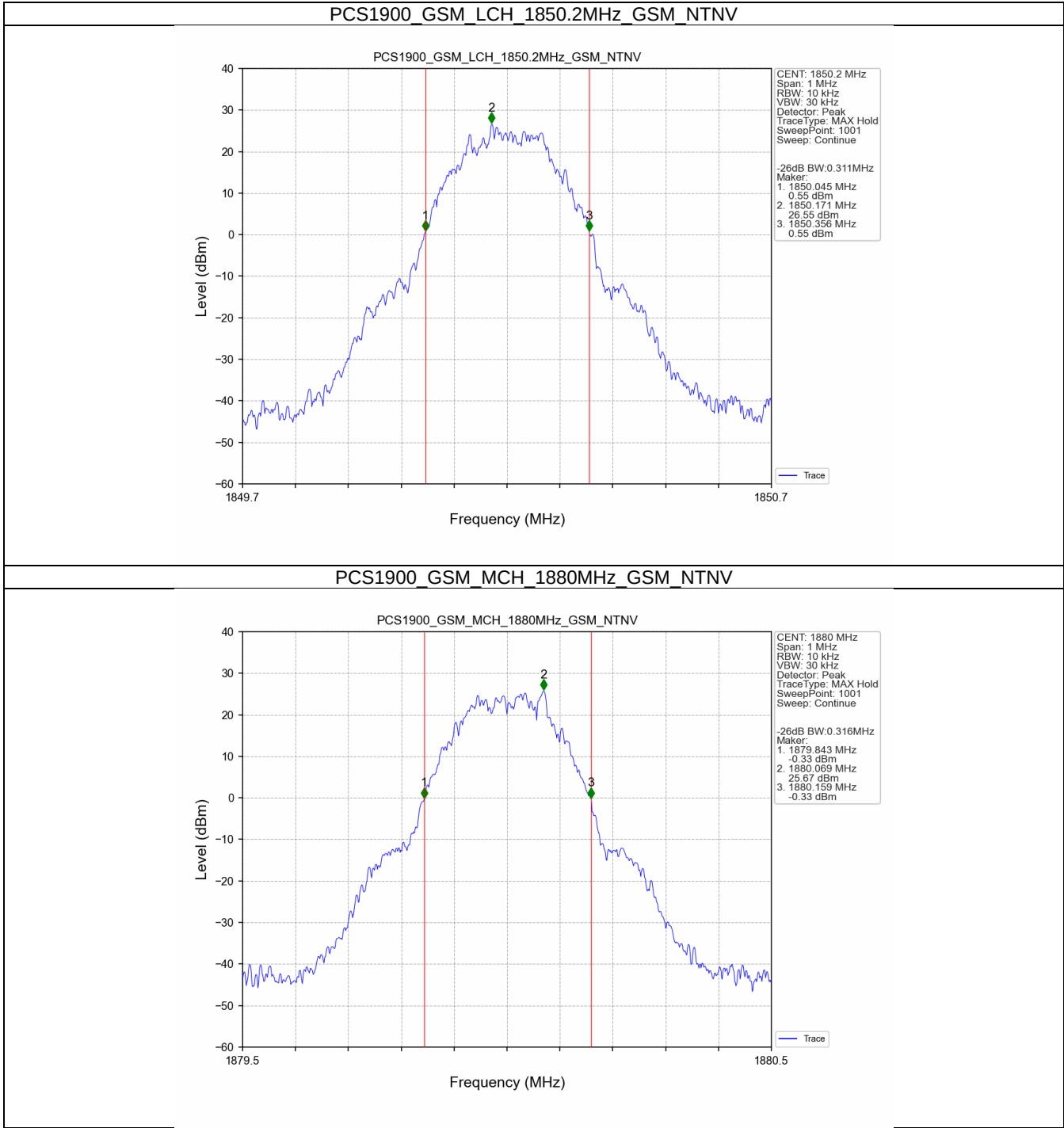
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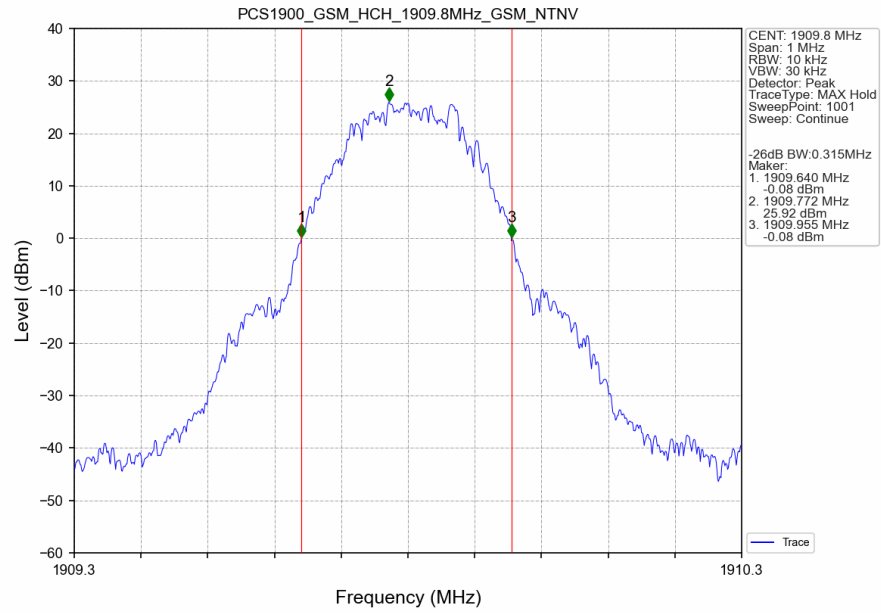
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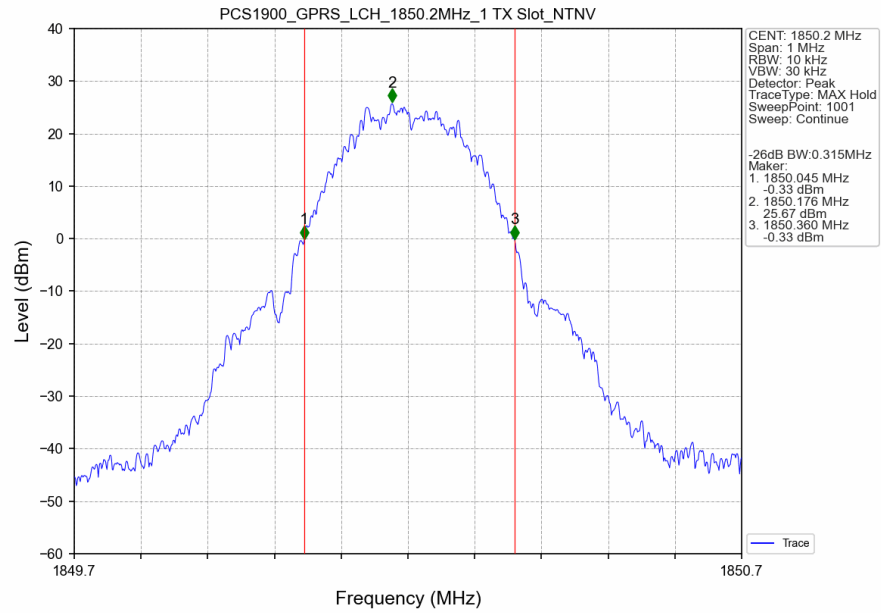
3.2.2 PCS1900_XDB



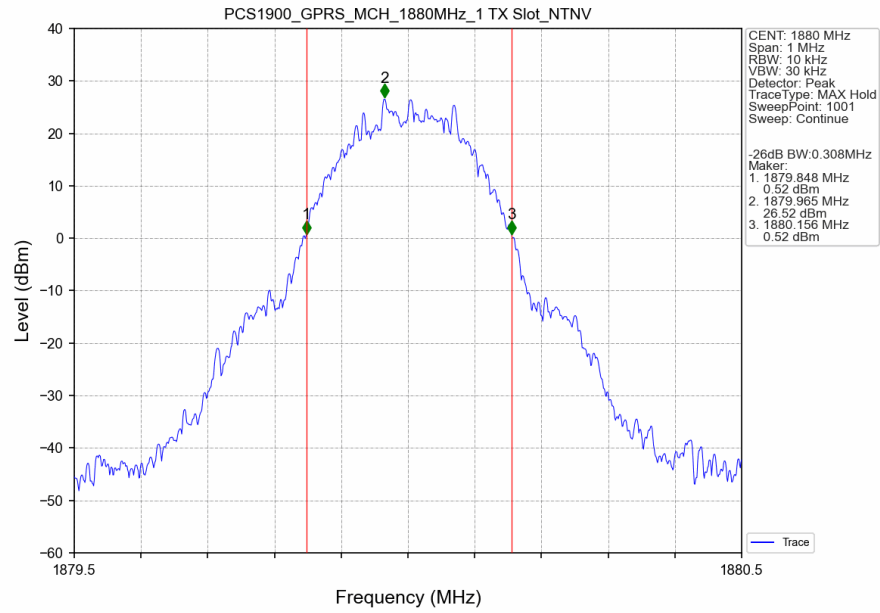
PCS1900 GSM HCH 1909.8MHz GSM NTN



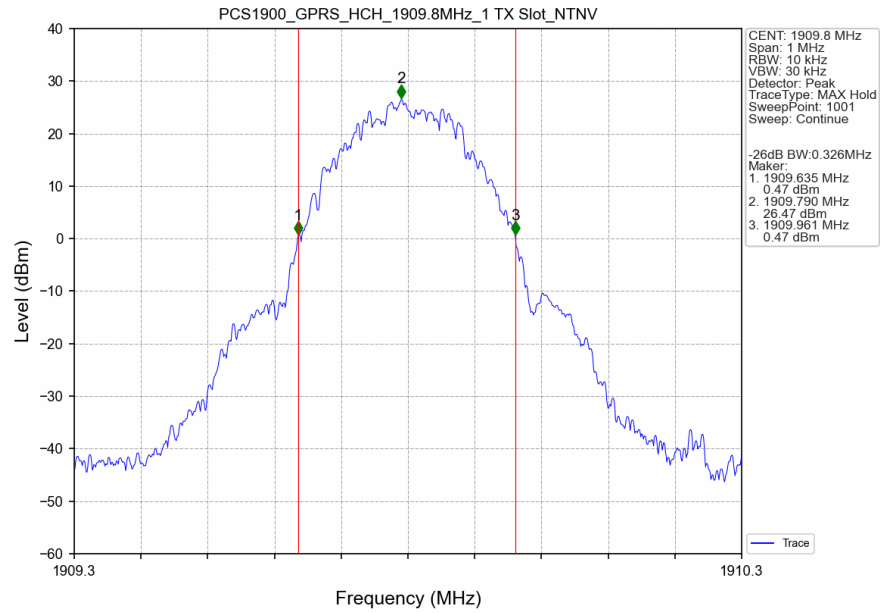
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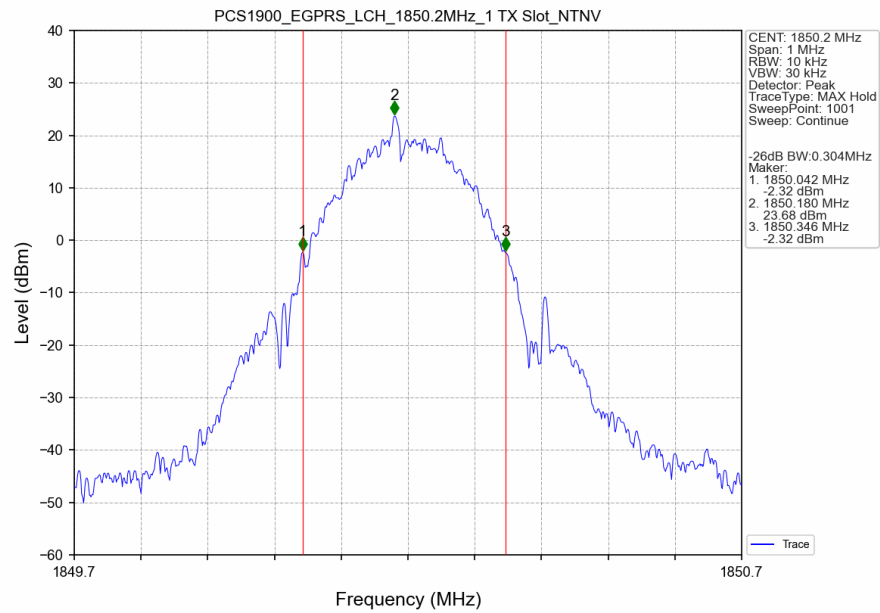
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTN



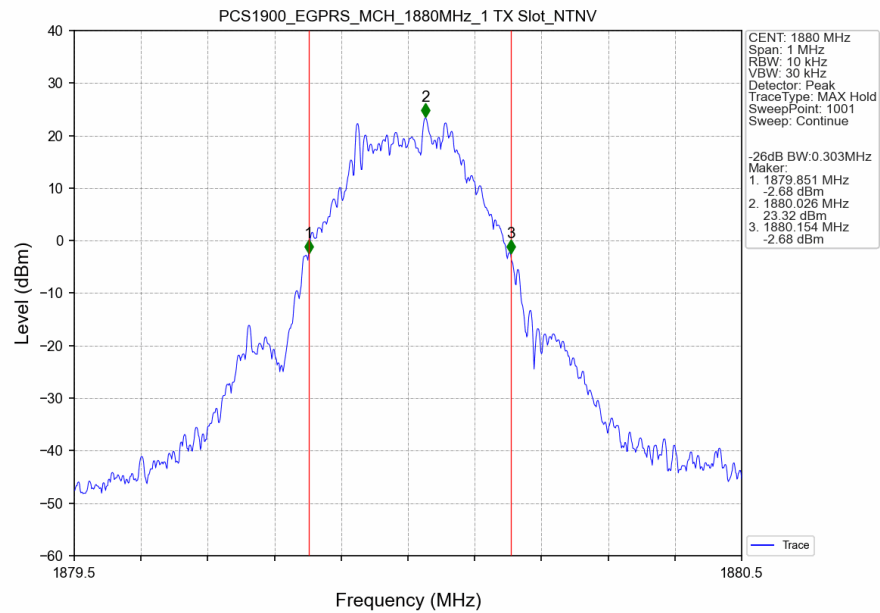
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTN



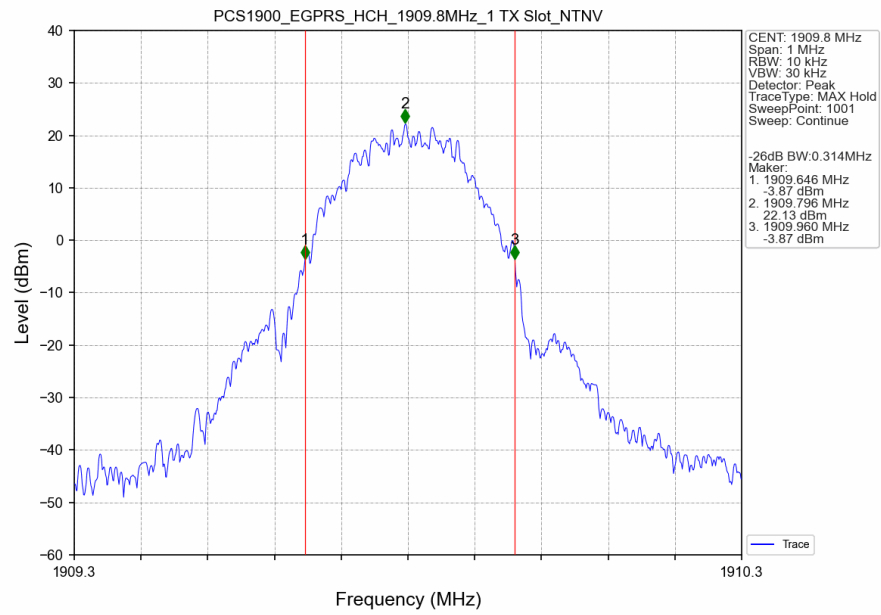
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTN



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

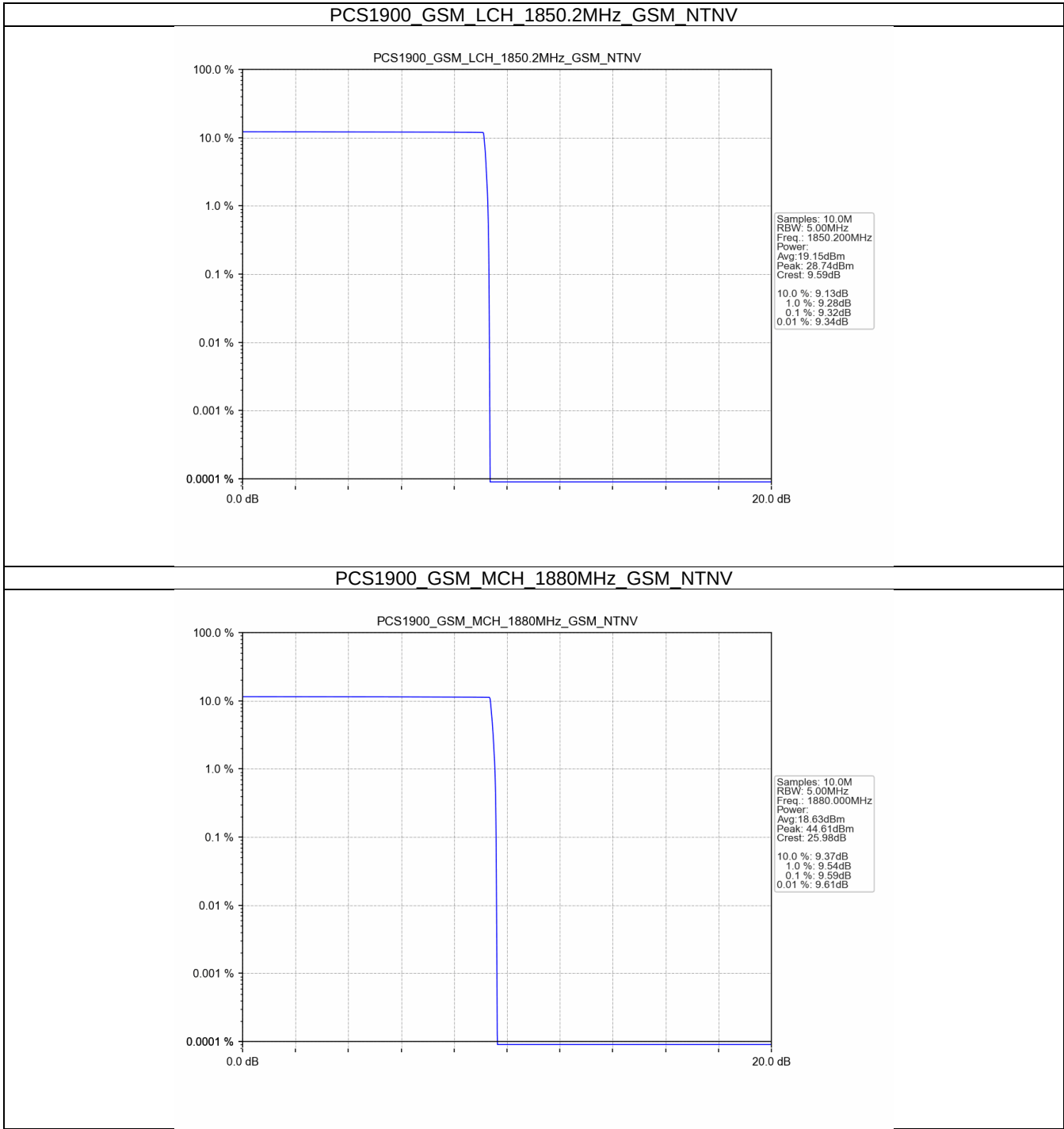
4.1 Test Result

4.1.1 PCS1900

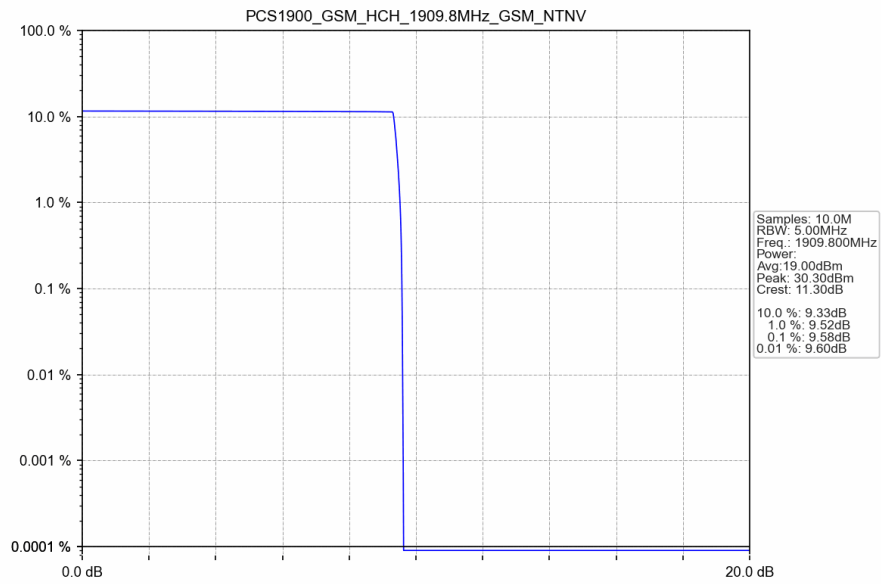
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.32	<=13	Pass
			1880	9.59	<=13	Pass
			1909.8	9.58	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.93	<=13	Pass
			1880	3.91	<=13	Pass
			1909.8	4.09	<=13	Pass
	EGPRS	4 TX Slots	1850.2	9.05	<=13	Pass
			1880	9.61	<=13	Pass
			1909.8	8.97	<=13	Pass

4.2 Test Graph

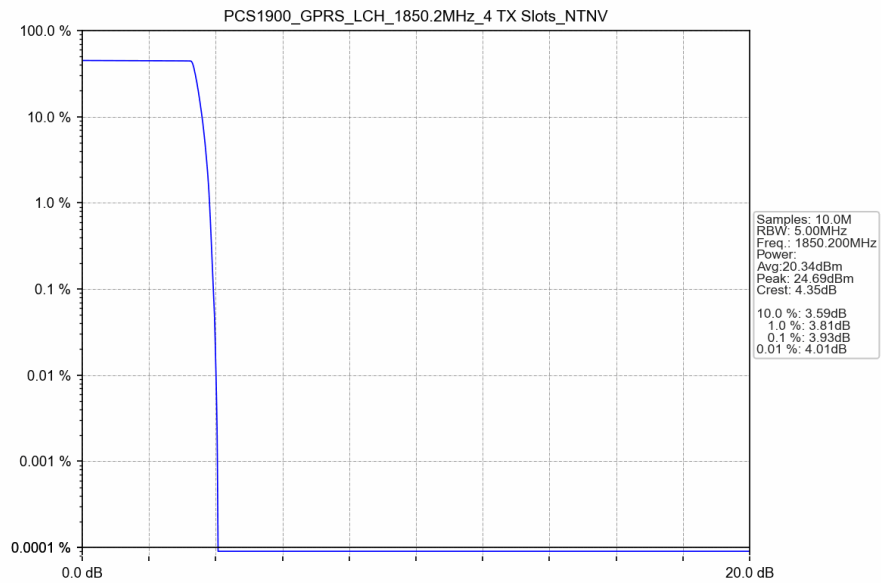
4.2.1 PCS1900



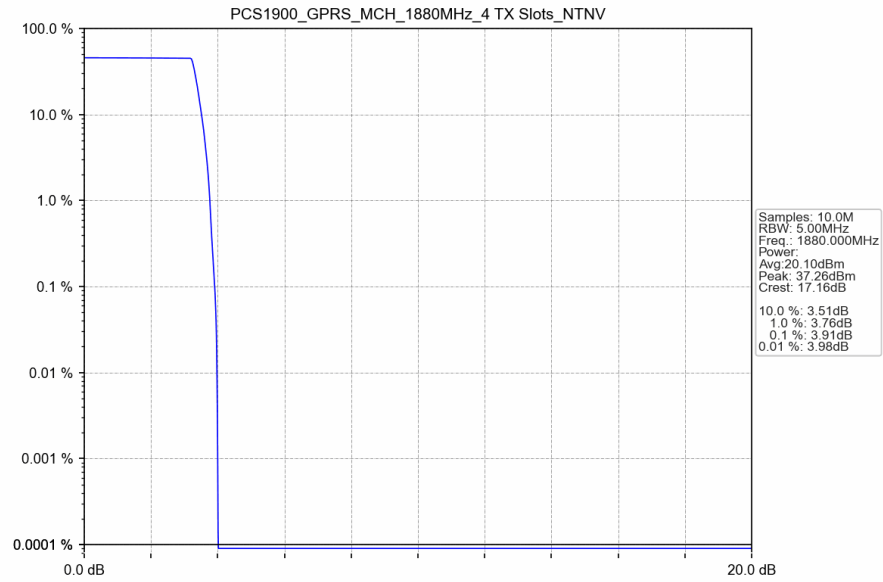
PCS1900 GSM HCH 1909.8MHz GSM NTN



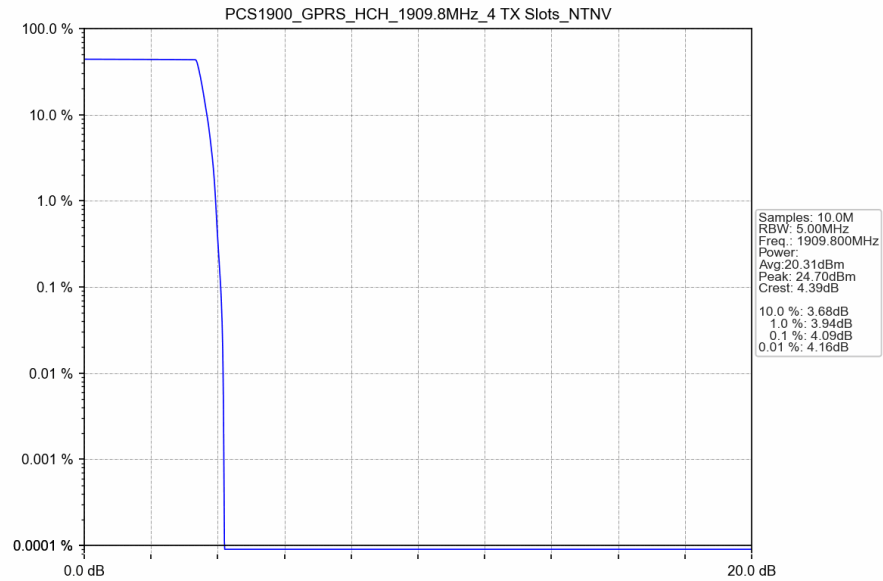
PCS1900 GPRS LCH 1850.2MHz 4 TX Slots NTN



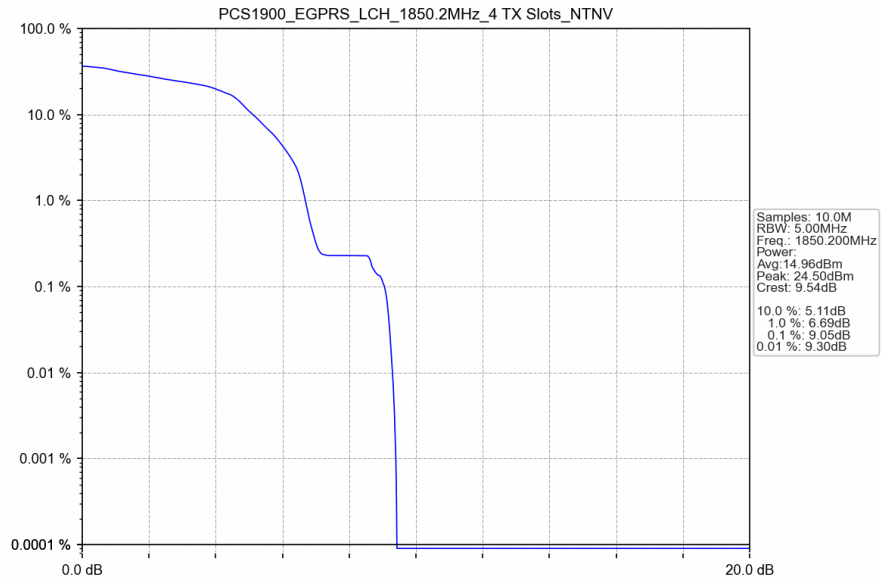
PCS1900 GPRS MCH 1880MHz 4 TX Slots_NTNV



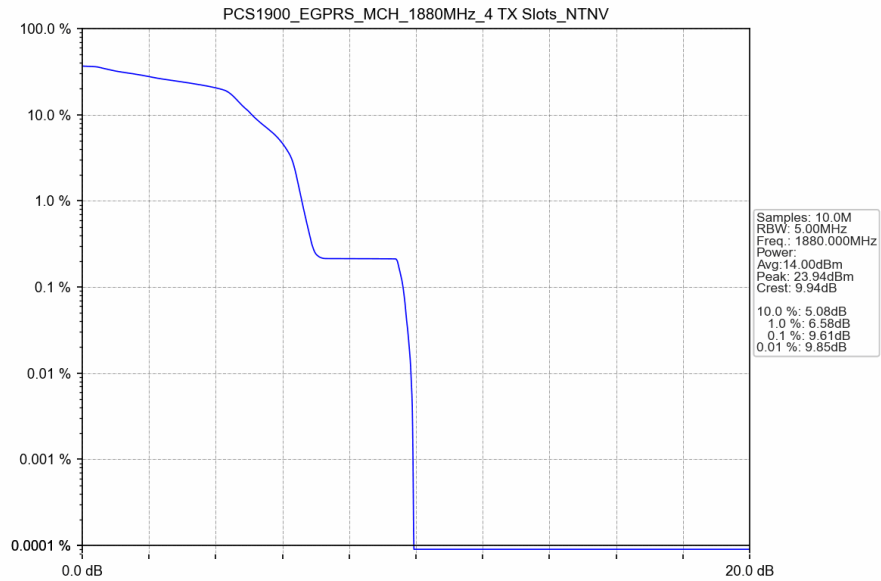
PCS1900 GPRS HCH 1909.8MHz 4 TX Slots_NTNV



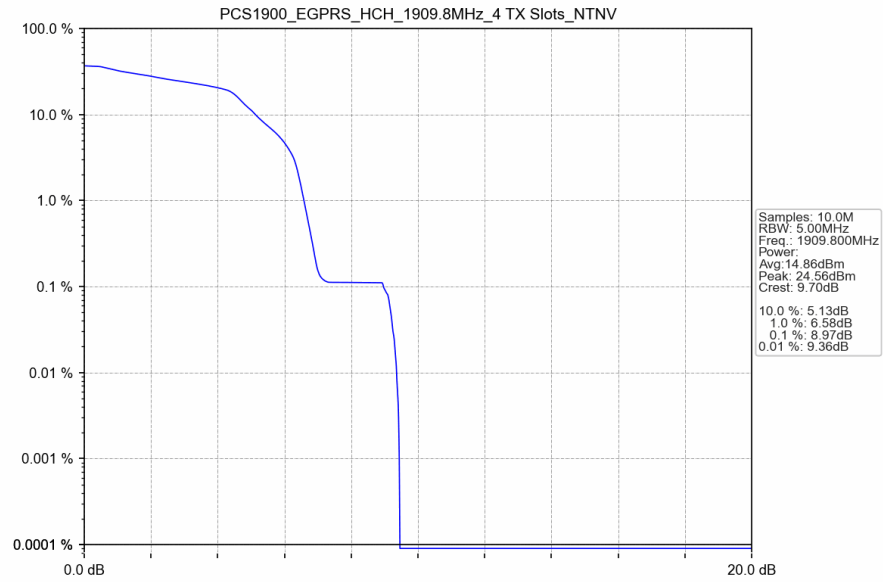
PCS1900 EGPRS LCH 1850.2MHz 4 TX Slots NTN



PCS1900 EGPRS MCH 1880MHz 4 TX Slots NTN



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots NTN



5. Spurious Emission

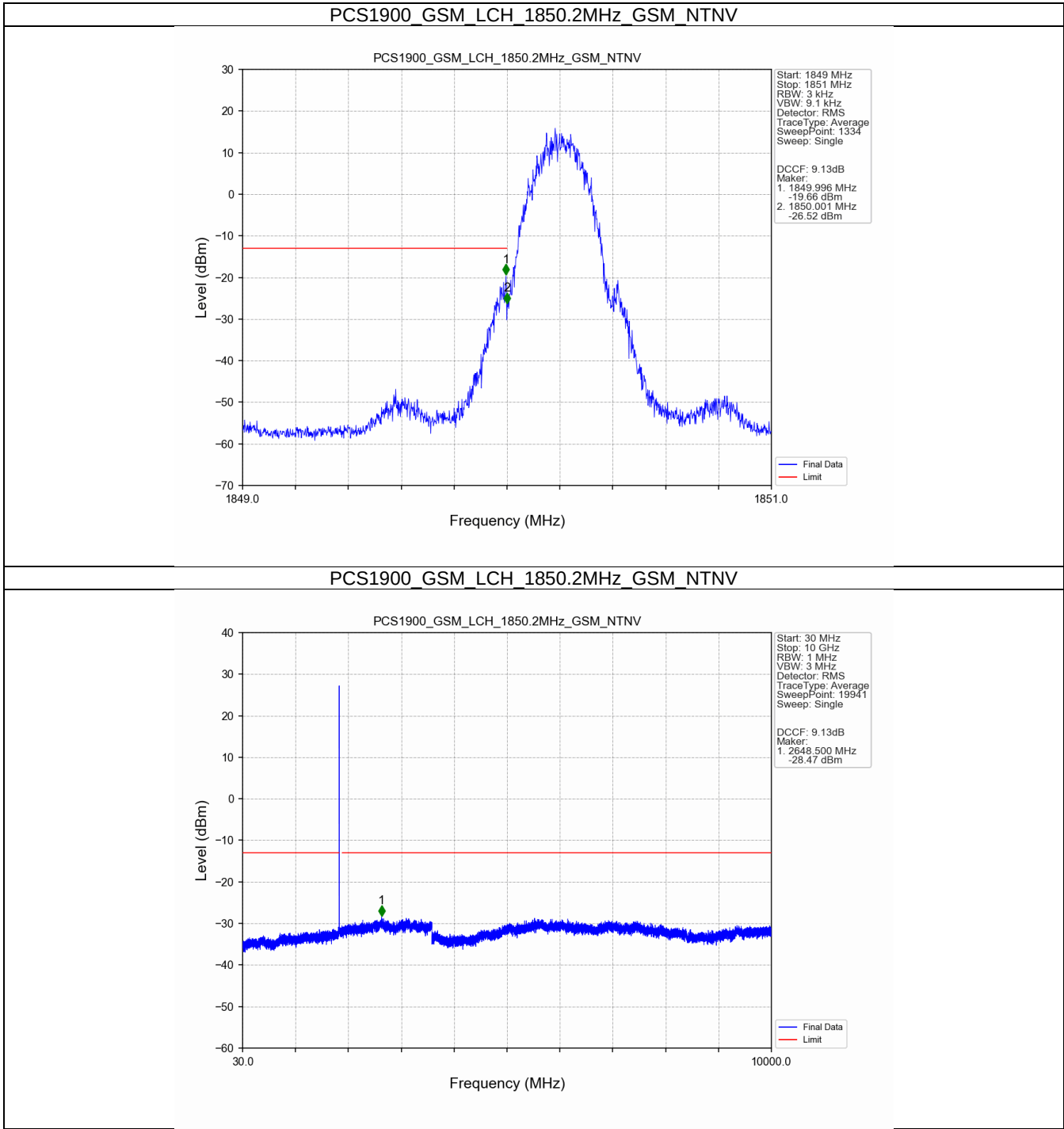
5.1 Test Result

5.1.1 PCS1900

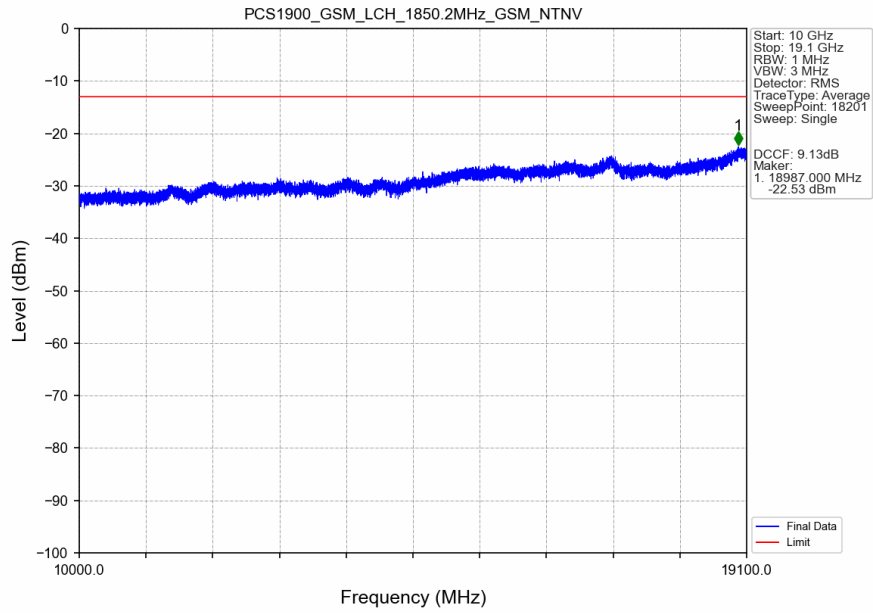
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1909.8	Refer To Test Graph	Pass	
	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass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

5.2 Test Graph

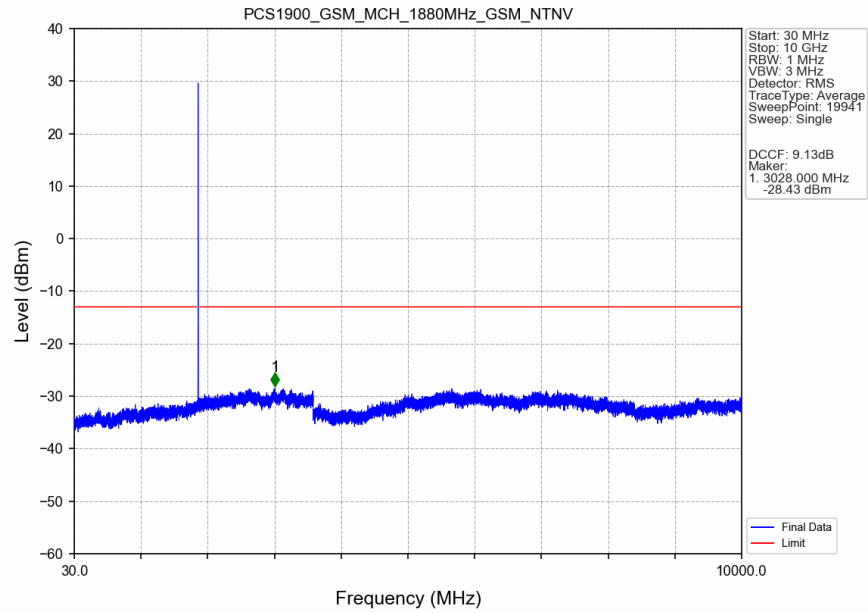
5.2.1 PCS1900



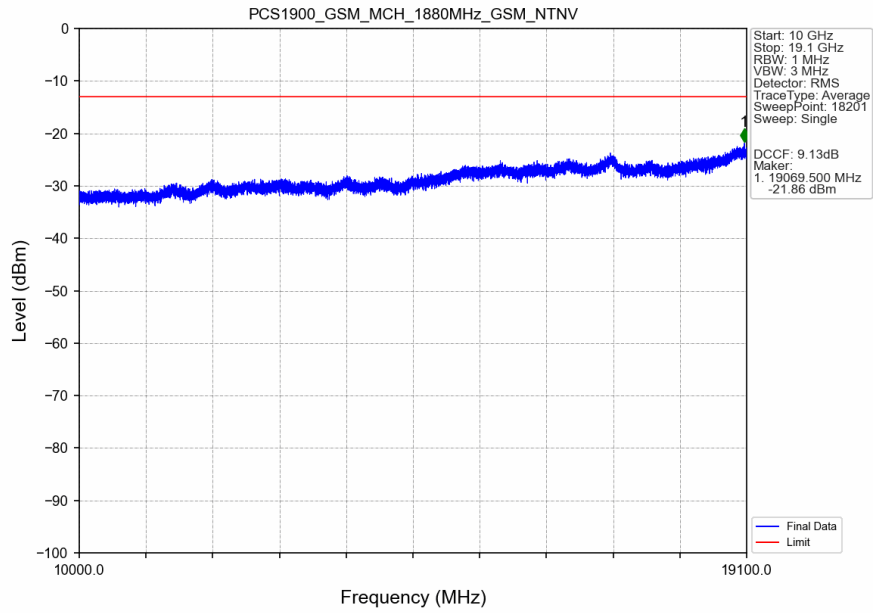
PCS1900 GSM LCH 1850.2MHz GSM NTNV



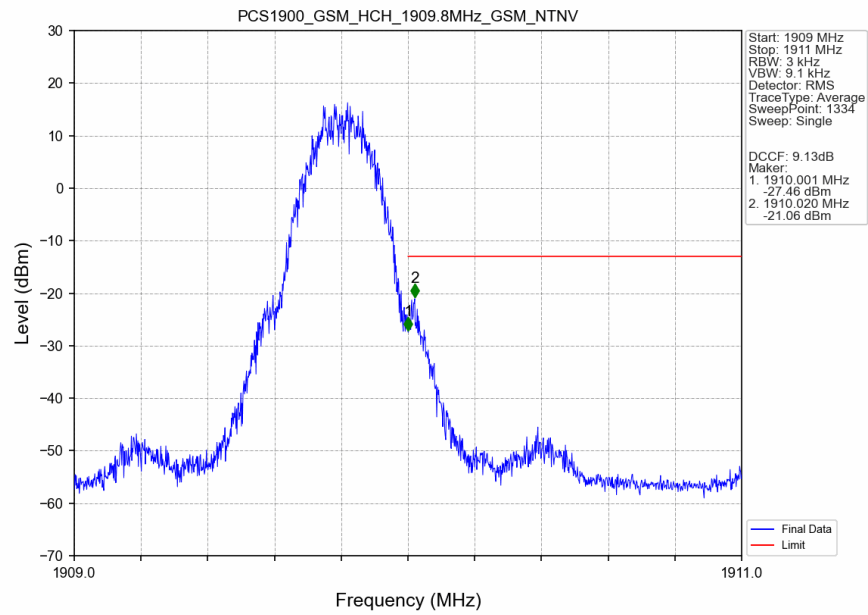
PCS1900 GSM MCH 1880MHz GSM NTNV



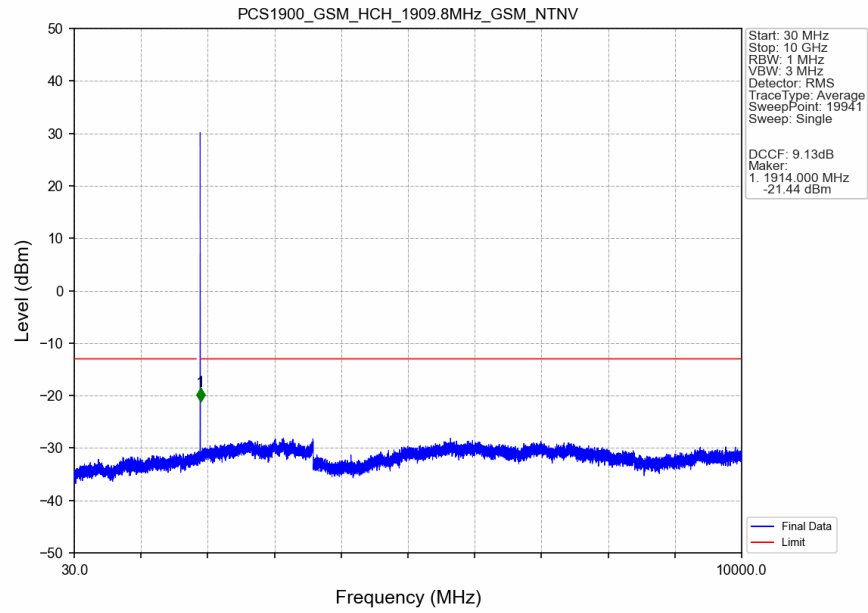
PCS1900 GSM MCH 1880MHz GSM NTNV



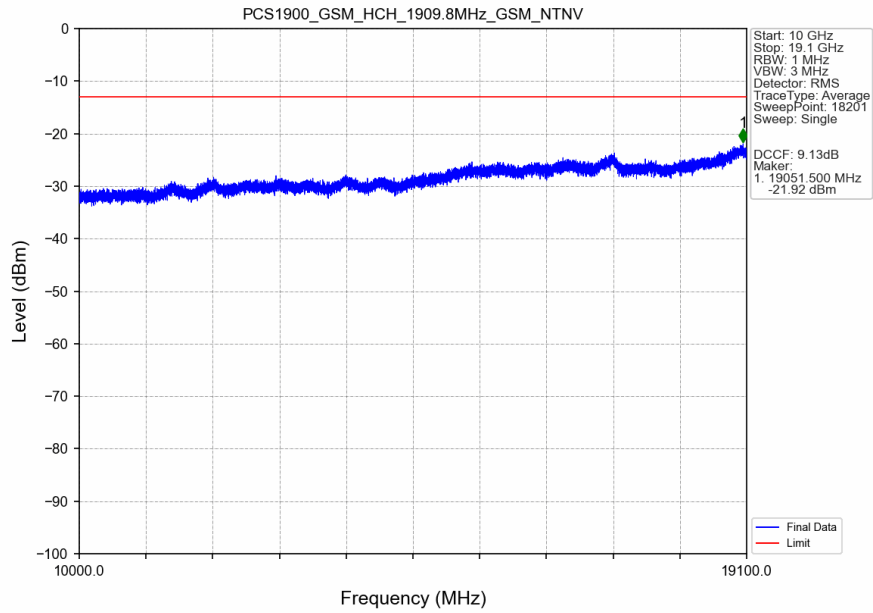
PCS1900 GSM HCH 1909.8MHz GSM NTNV



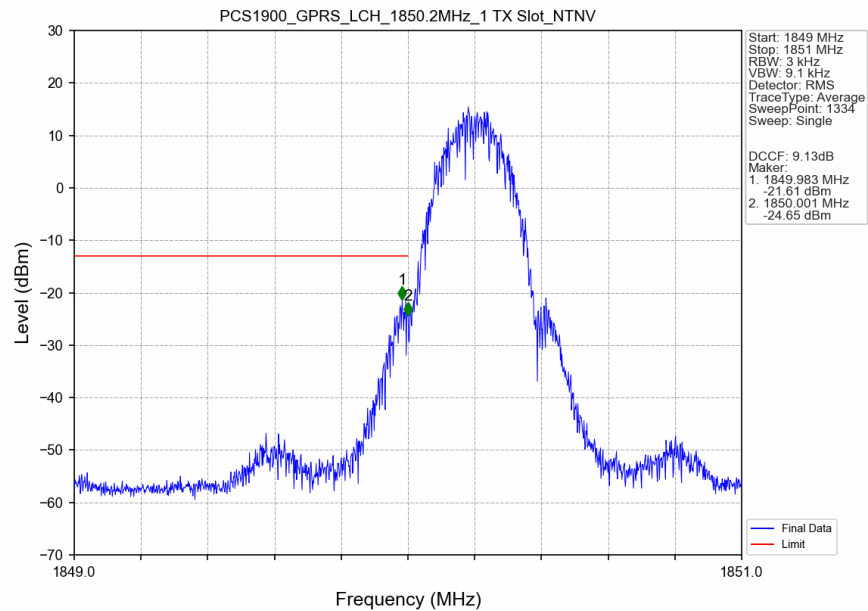
PCS1900 GSM HCH 1909.8MHz GSM NTN



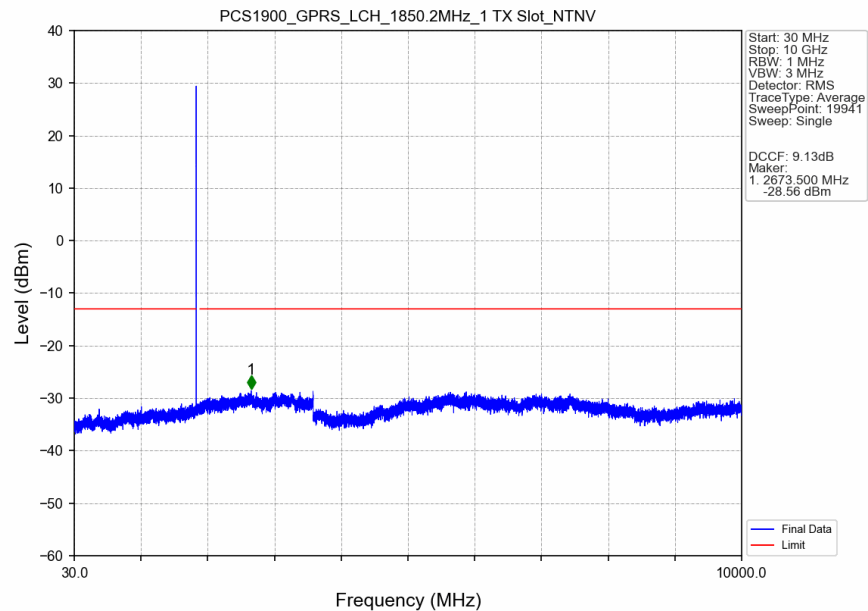
PCS1900 GSM HCH 1909.8MHz GSM NTN



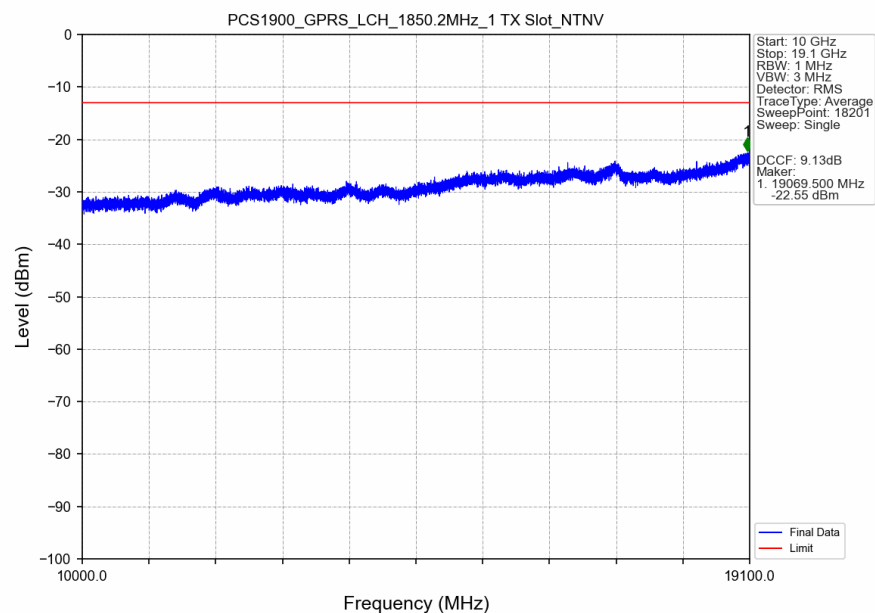
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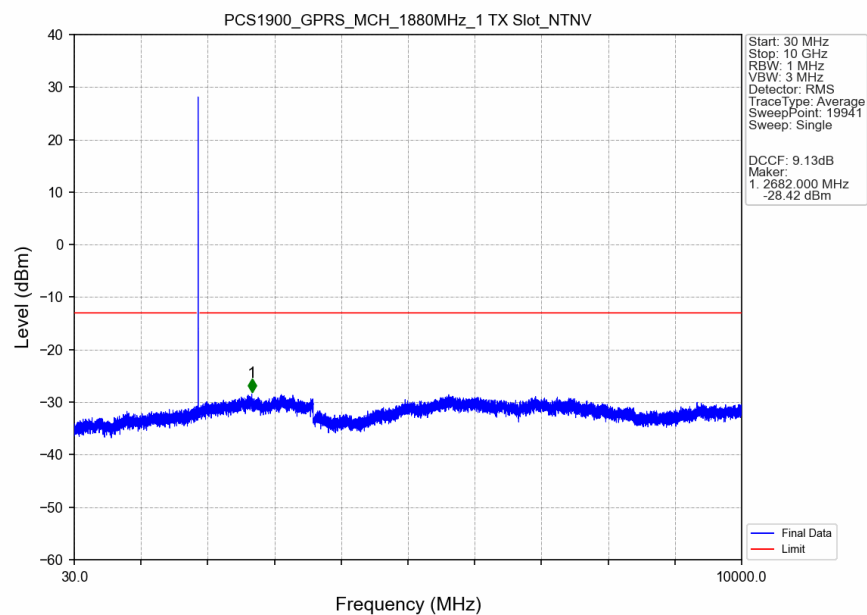
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



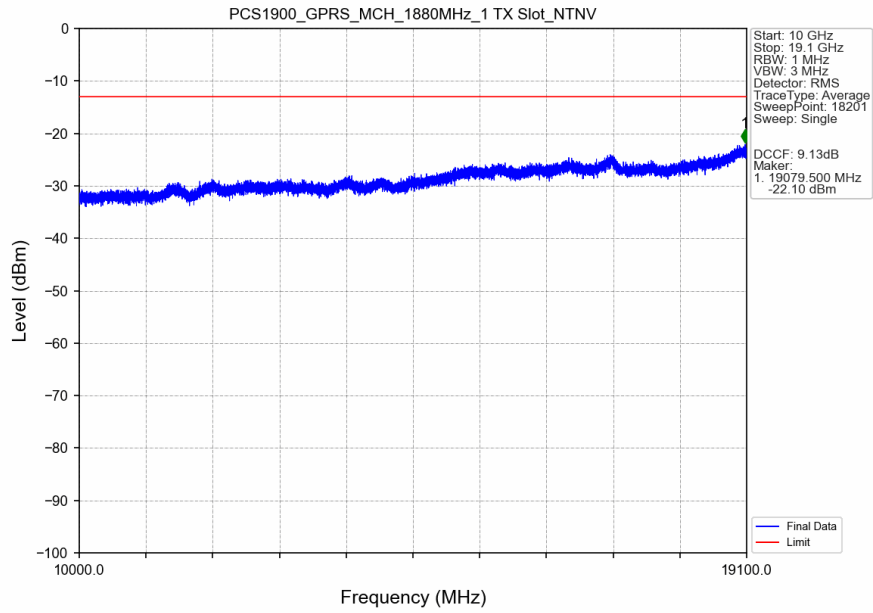
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot_NTNV



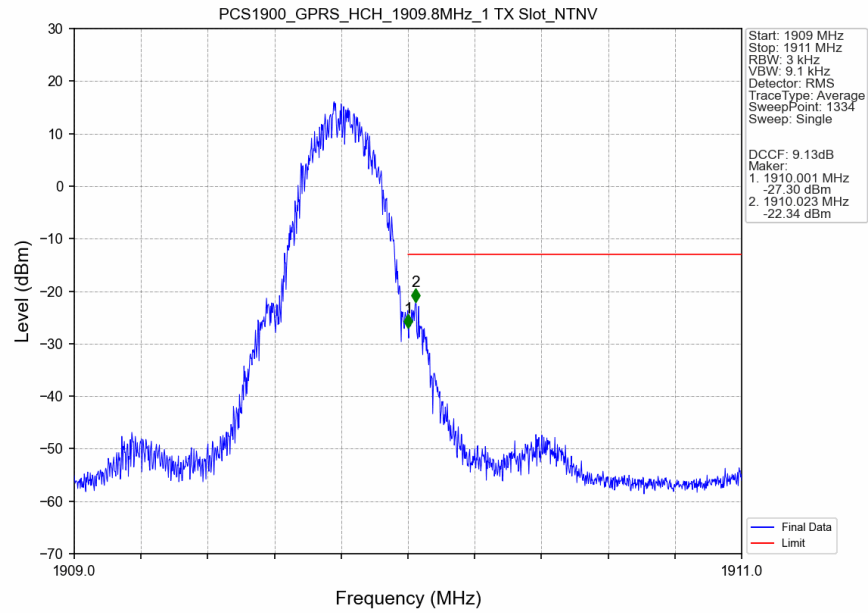
PCS1900 GPRS MCH 1880MHz 1 TX Slot_NTNV



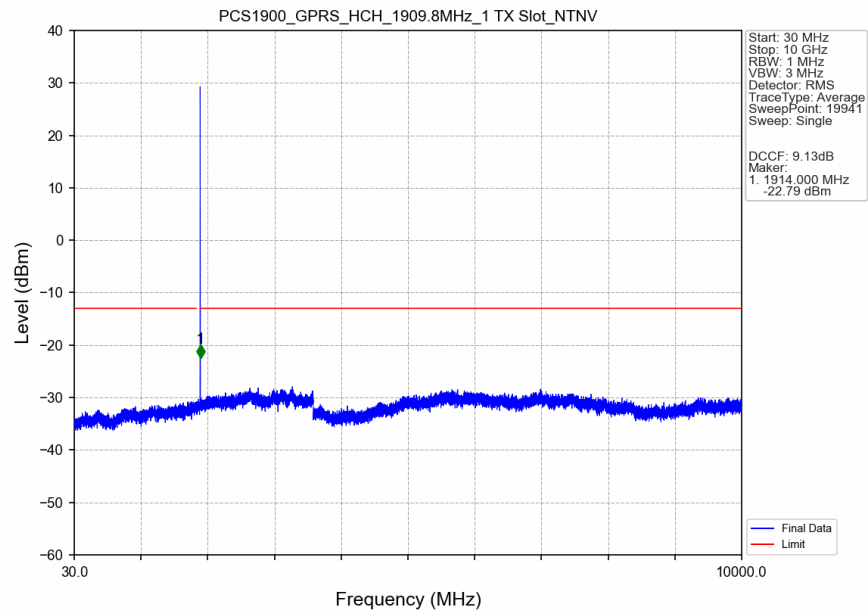
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTN



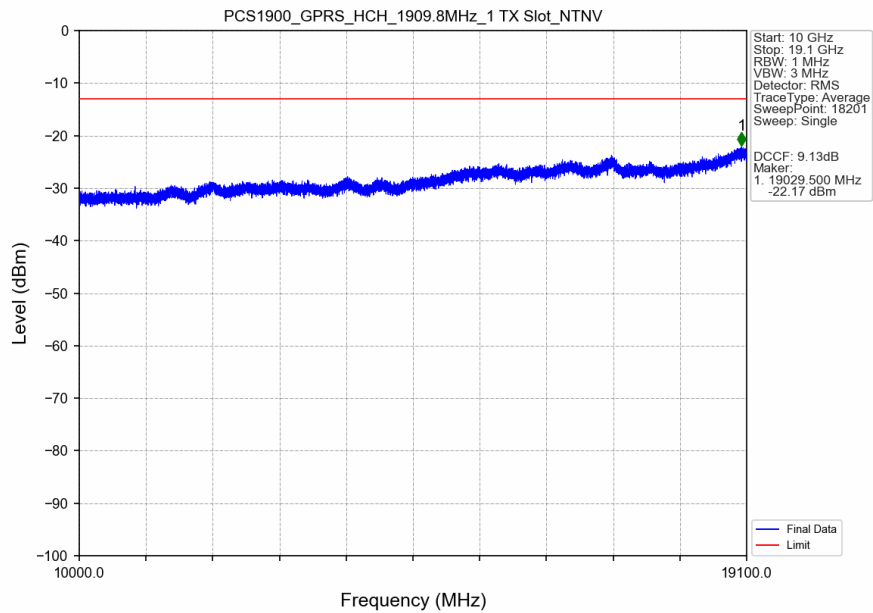
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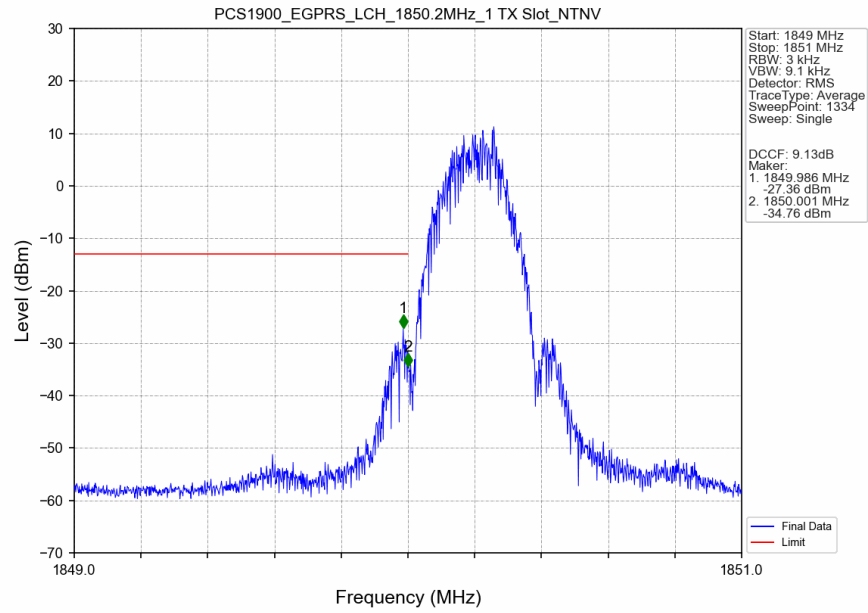
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot_NTNV



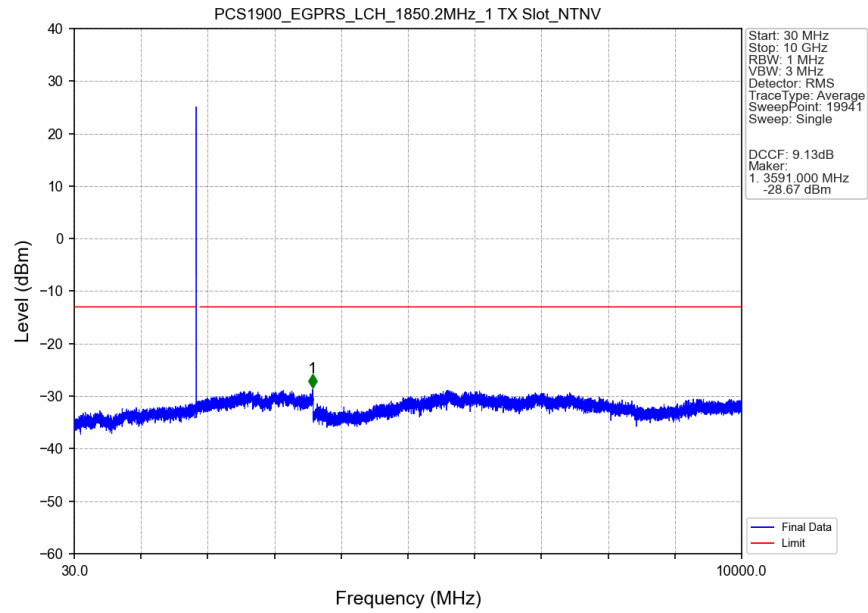
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot_NTNV



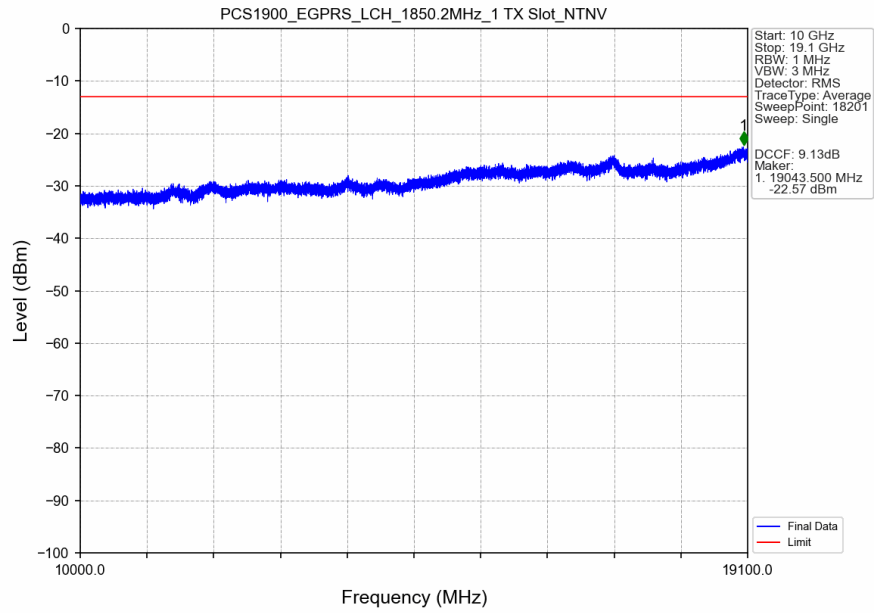
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot_NTNV



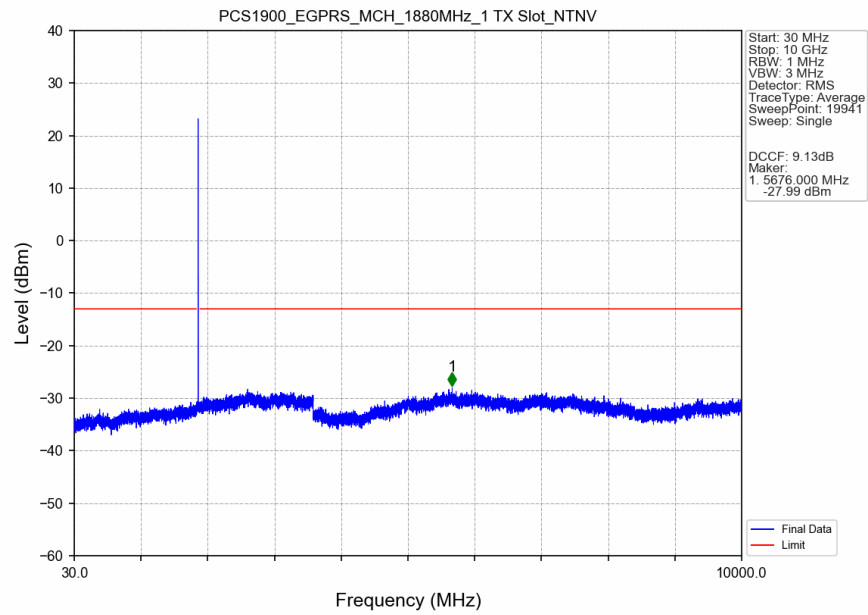
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot_NTNV



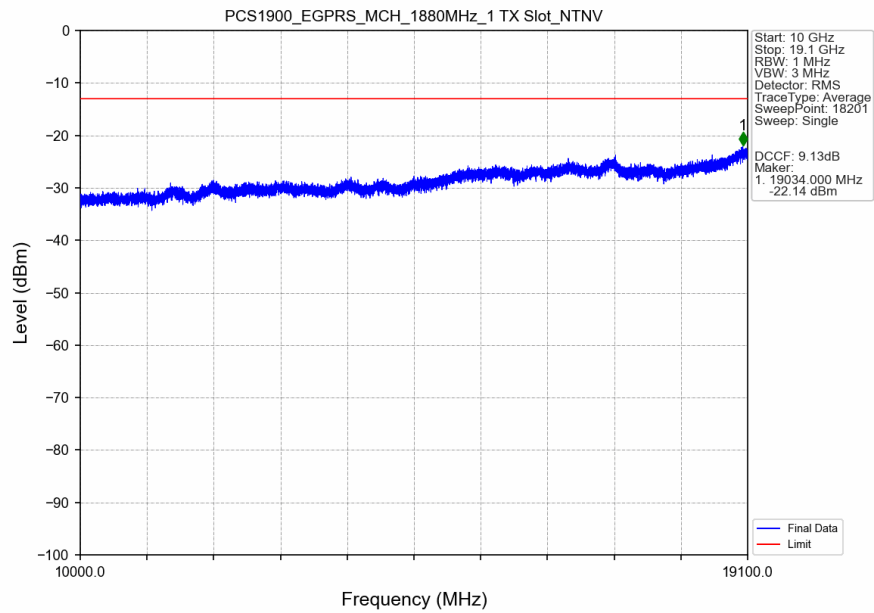
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot_NTNV



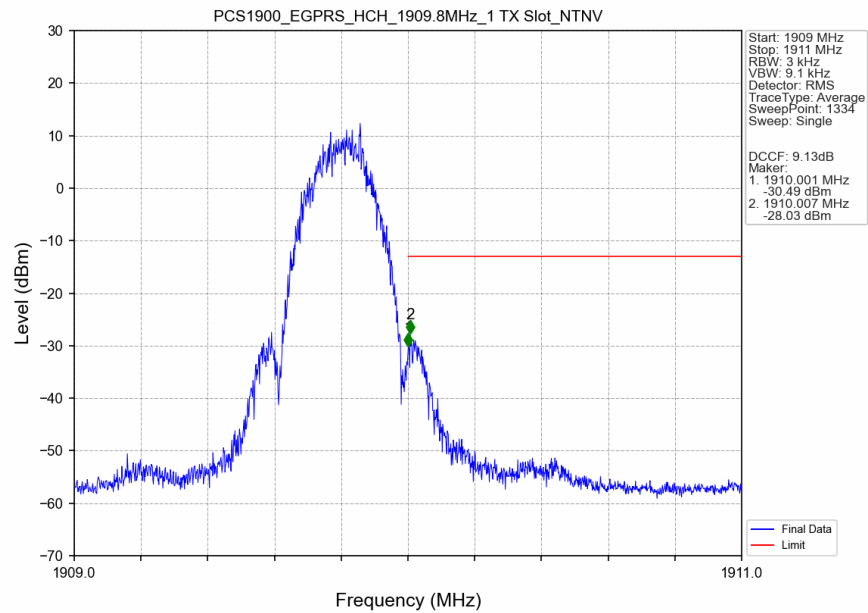
PCS1900 EGPRS MCH 1880MHz 1 TX Slot_NTNV



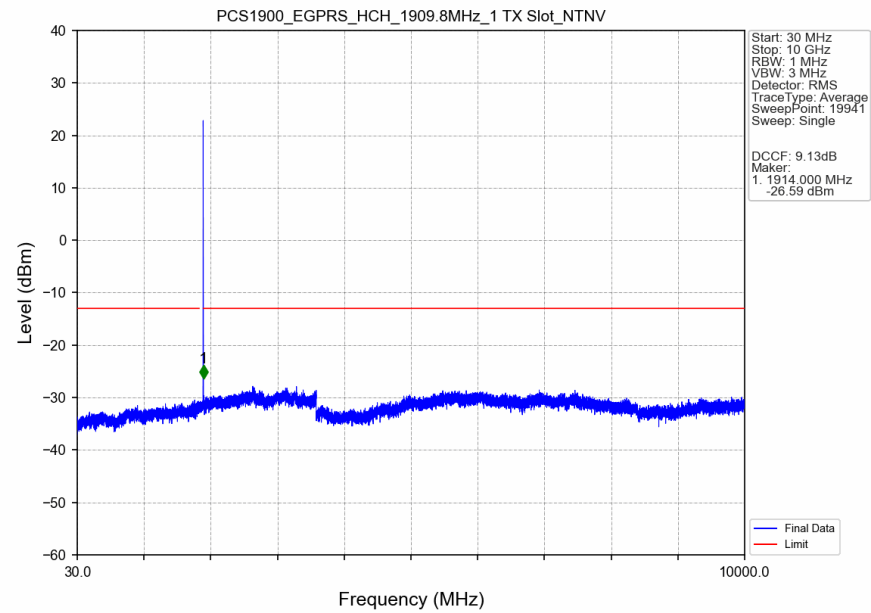
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN

