

Band: GSM850									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	GSM	GSM	824.2	32.83	-8.40	22.28	<=38.45	Pass	
			836.6	32.75	-8.40	22.20	<=38.45	Pass	
			848.8	32.79	-8.40	22.24	<=38.45	Pass	
	GPRS	1 TX Slot	824.2	32.78	-8.40	22.23	<=38.45	Pass	
		2 TX Slots	824.2	30.43	-8.40	19.88	<=38.45	Pass	
		3 TX Slots	824.2	28.88	-8.40	18.33	<=38.45	Pass	
		4 TX Slots	824.2	27.30	-8.40	16.75	<=38.45	Pass	
		1 TX Slot	836.6	32.71	-8.40	22.16	<=38.45	Pass	
		2 TX Slots	836.6	30.36	-8.40	19.81	<=38.45	Pass	
		3 TX Slots	836.6	28.82	-8.40	18.27	<=38.45	Pass	
		4 TX Slots	836.6	27.26	-8.40	16.71	<=38.45	Pass	
		1 TX Slot	848.8	32.74	-8.40	22.19	<=38.45	Pass	
		2 TX Slots	848.8	30.43	-8.40	19.88	<=38.45	Pass	
		3 TX Slots	848.8	28.90	-8.40	18.35	<=38.45	Pass	
		4 TX Slots	848.8	27.34	-8.40	16.79	<=38.45	Pass	
		EGPRS	1 TX Slot	824.2	27.06	-8.40	16.51	<=38.45	Pass
			2 TX Slots	824.2	24.42	-8.40	13.87	<=38.45	Pass
			3 TX Slots	824.2	22.64	-8.40	12.09	<=38.45	Pass
			4 TX Slots	824.2	22.00	-8.40	11.45	<=38.45	Pass
			1 TX Slot	836.6	28.78	-8.40	18.23	<=38.45	Pass
			2 TX Slots	836.6	24.12	-8.40	13.57	<=38.45	Pass
			3 TX Slots	836.6	22.37	-8.40	11.82	<=38.45	Pass
	4 TX Slots		836.6	21.75	-8.40	11.20	<=38.45	Pass	
	1 TX Slot		848.8	26.70	-8.40	16.15	<=38.45	Pass	
	2 TX Slots		848.8	24.12	-8.40	13.57	<=38.45	Pass	
	3 TX Slots		848.8	22.49	-8.40	11.94	<=38.45	Pass	
	4 TX Slots		848.8	21.77	-8.40	11.22	<=38.45	Pass	
	Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 GSM850

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	824.2	20	LV	1.388	0.0017	-2.5 to 2.5	Pass
			NV	1.582	0.0019	-2.5 to 2.5	Pass
			HV	0.452	0.0005	-2.5 to 2.5	Pass
		-30	NV	0.452	0.0005	-2.5 to 2.5	Pass
		-20	NV	3.810	0.0046	-2.5 to 2.5	Pass
		-10	NV	3.939	0.0048	-2.5 to 2.5	Pass
		0	NV	5.359	0.0065	-2.5 to 2.5	Pass
		10	NV	1.776	0.0022	-2.5 to 2.5	Pass
		30	NV	-1.291	-0.0016	-2.5 to 2.5	Pass
		40	NV	-2.454	-0.0030	-2.5 to 2.5	Pass
		50	NV	-4.229	-0.0051	-2.5 to 2.5	Pass
	836.6	20	LV	1.743	0.0021	-2.5 to 2.5	Pass
			NV	4.294	0.0051	-2.5 to 2.5	Pass
			HV	0.065	0.0001	-2.5 to 2.5	Pass
		-30	NV	0.129	0.0002	-2.5 to 2.5	Pass
		-20	NV	3.358	0.0040	-2.5 to 2.5	Pass
		-10	NV	4.778	0.0057	-2.5 to 2.5	Pass
		0	NV	-0.678	-0.0008	-2.5 to 2.5	Pass
		10	NV	-4.617	-0.0055	-2.5 to 2.5	Pass
		30	NV	-3.842	-0.0046	-2.5 to 2.5	Pass
		40	NV	3.229	0.0039	-2.5 to 2.5	Pass
		50	NV	-0.387	-0.0005	-2.5 to 2.5	Pass
	848.8	20	LV	0.065	0.0001	-2.5 to 2.5	Pass
			NV	0.420	0.0005	-2.5 to 2.5	Pass
			HV	1.130	0.0013	-2.5 to 2.5	Pass
		-30	NV	-0.226	-0.0003	-2.5 to 2.5	Pass
		-20	NV	2.099	0.0025	-2.5 to 2.5	Pass
		-10	NV	-0.743	-0.0009	-2.5 to 2.5	Pass
		0	NV	-1.001	-0.0012	-2.5 to 2.5	Pass
		10	NV	1.421	0.0017	-2.5 to 2.5	Pass
		30	NV	-6.263	-0.0074	-2.5 to 2.5	Pass
		40	NV	-4.940	-0.0058	-2.5 to 2.5	Pass
GPRS	824.2	20	LV	3.229	0.0039	-2.5 to 2.5	Pass
			NV	4.133	0.0050	-2.5 to 2.5	Pass
			HV	1.291	0.0016	-2.5 to 2.5	Pass
		-30	NV	-0.226	-0.0003	-2.5 to 2.5	Pass
		-20	NV	-2.454	-0.0030	-2.5 to 2.5	Pass
		-10	NV	-2.744	-0.0033	-2.5 to 2.5	Pass
		0	NV	-5.263	-0.0064	-2.5 to 2.5	Pass
		10	NV	6.877	0.0083	-2.5 to 2.5	Pass
		30	NV	0.387	0.0005	-2.5 to 2.5	Pass
		40	NV	7.813	0.0095	-2.5 to 2.5	Pass
		50	NV	3.422	0.0042	-2.5 to 2.5	Pass
	836.6	20	LV	3.390	0.0041	-2.5 to 2.5	Pass
			NV	-3.907	-0.0047	-2.5 to 2.5	Pass
			HV	0.032	0.0000	-2.5 to 2.5	Pass

		-30	NV	-3.907	-0.0047	-2.5 to 2.5	Pass
		-20	NV	-4.778	-0.0057	-2.5 to 2.5	Pass
		-10	NV	-3.293	-0.0039	-2.5 to 2.5	Pass
		0	NV	-0.904	-0.0011	-2.5 to 2.5	Pass
		10	NV	-5.941	-0.0071	-2.5 to 2.5	Pass
		30	NV	-3.196	-0.0038	-2.5 to 2.5	Pass
		40	NV	-0.775	-0.0009	-2.5 to 2.5	Pass
		50	NV	-9.298	-0.0111	-2.5 to 2.5	Pass
	848.8	20	LV	-1.647	-0.0019	-2.5 to 2.5	Pass
			NV	-3.003	-0.0035	-2.5 to 2.5	Pass
			HV	-1.259	-0.0015	-2.5 to 2.5	Pass
		-30	NV	-2.647	-0.0031	-2.5 to 2.5	Pass
		-20	NV	-3.003	-0.0035	-2.5 to 2.5	Pass
		-10	NV	-4.552	-0.0054	-2.5 to 2.5	Pass
		0	NV	-3.648	-0.0043	-2.5 to 2.5	Pass
		10	NV	-6.070	-0.0072	-2.5 to 2.5	Pass
		30	NV	-5.392	-0.0064	-2.5 to 2.5	Pass
		40	NV	-7.329	-0.0086	-2.5 to 2.5	Pass
		50	NV	-4.778	-0.0056	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	-6.328	-0.0077	-2.5 to 2.5	Pass
			NV	-7.619	-0.0092	-2.5 to 2.5	Pass
			HV	-9.524	-0.0116	-2.5 to 2.5	Pass
		-30	NV	-13.269	-0.0161	-2.5 to 2.5	Pass
		-20	NV	-14.109	-0.0171	-2.5 to 2.5	Pass
		-10	NV	-16.853	-0.0204	-2.5 to 2.5	Pass
		0	NV	-6.393	-0.0078	-2.5 to 2.5	Pass
		10	NV	-2.841	-0.0034	-2.5 to 2.5	Pass
		30	NV	-8.814	-0.0107	-2.5 to 2.5	Pass
		40	NV	-7.587	-0.0092	-2.5 to 2.5	Pass
		50	NV	-12.139	-0.0147	-2.5 to 2.5	Pass
	836.6	20	LV	-17.402	-0.0208	-2.5 to 2.5	Pass
			NV	-15.497	-0.0185	-2.5 to 2.5	Pass
			HV	-17.531	-0.0210	-2.5 to 2.5	Pass
		-30	NV	-15.820	-0.0189	-2.5 to 2.5	Pass
		-20	NV	-14.077	-0.0168	-2.5 to 2.5	Pass
		-10	NV	-13.915	-0.0166	-2.5 to 2.5	Pass
		0	NV	-15.368	-0.0184	-2.5 to 2.5	Pass
		10	NV	-16.401	-0.0196	-2.5 to 2.5	Pass
		30	NV	-11.849	-0.0142	-2.5 to 2.5	Pass
		40	NV	-8.201	-0.0098	-2.5 to 2.5	Pass
		50	NV	-8.588	-0.0103	-2.5 to 2.5	Pass
	848.8	20	LV	-12.043	-0.0142	-2.5 to 2.5	Pass
			NV	-16.369	-0.0193	-2.5 to 2.5	Pass
			HV	-14.012	-0.0165	-2.5 to 2.5	Pass
		-30	NV	-17.822	-0.0210	-2.5 to 2.5	Pass
		-20	NV	-10.525	-0.0124	-2.5 to 2.5	Pass
		-10	NV	-16.756	-0.0197	-2.5 to 2.5	Pass
		0	NV	-13.528	-0.0159	-2.5 to 2.5	Pass
		10	NV	-10.428	-0.0123	-2.5 to 2.5	Pass
		30	NV	-10.267	-0.0121	-2.5 to 2.5	Pass
		40	NV	-15.852	-0.0187	-2.5 to 2.5	Pass
		50	NV	-12.656	-0.0149	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

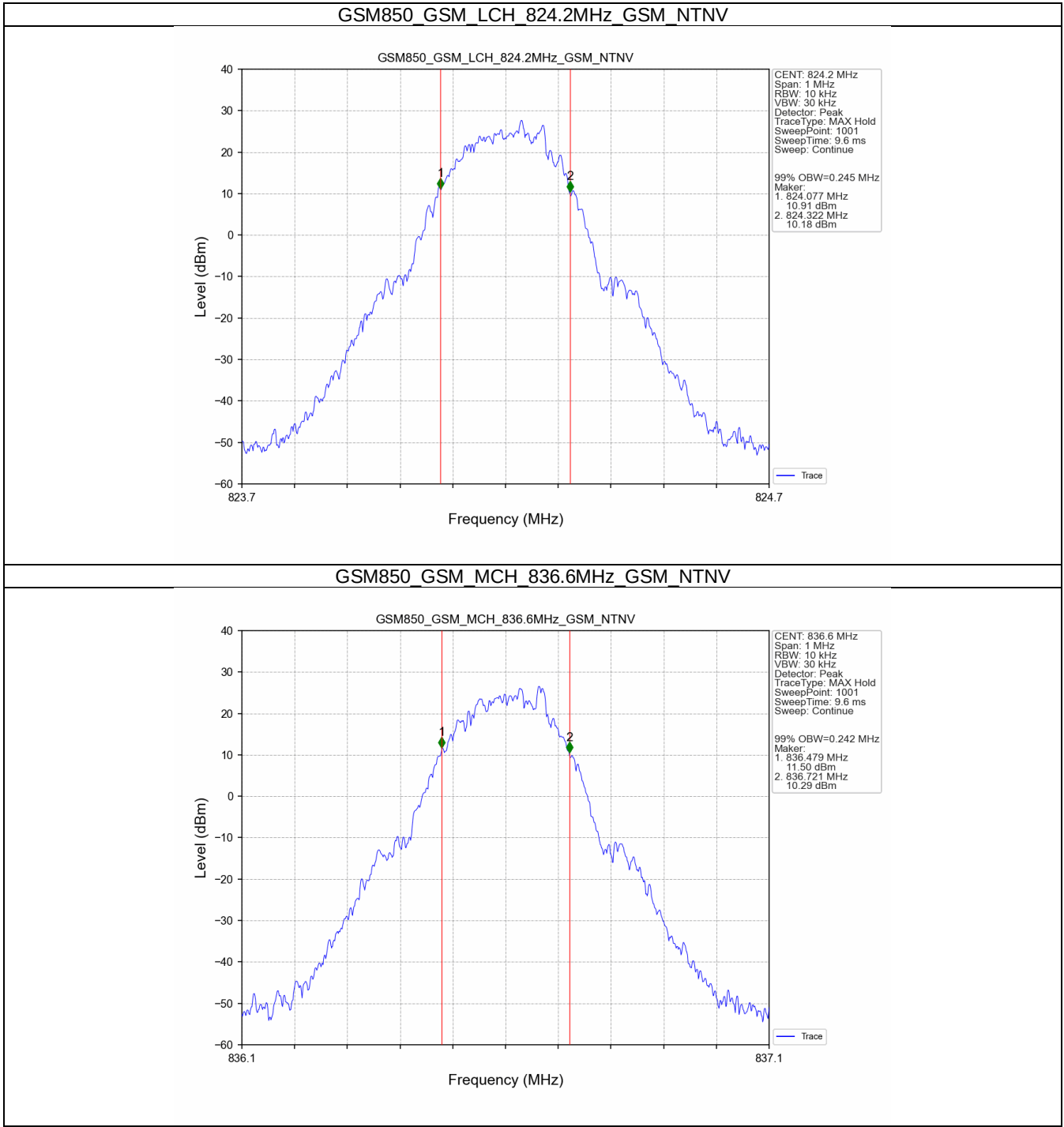
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.245	/	Pass
			836.6	0.242	/	Pass
			848.8	0.243	/	Pass
	GPRS	1 TX Slot	824.2	0.245	/	Pass
			836.6	0.244	/	Pass
			848.8	0.247	/	Pass
	EGPRS	1 TX Slot	824.2	0.246	/	Pass
			836.6	0.236	/	Pass
			848.8	0.243	/	Pass

3.1.2 GSM850_XDB

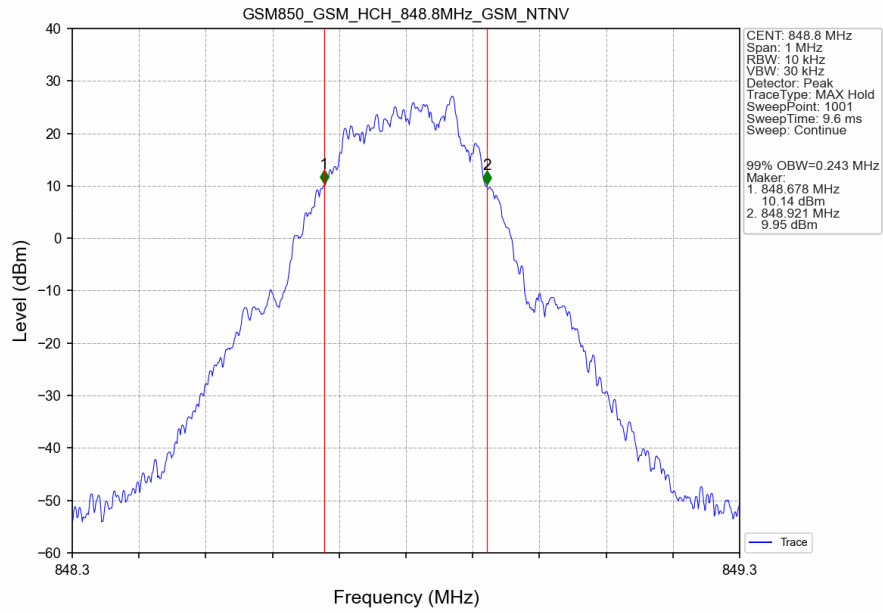
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.305	/	Pass
			836.6	0.311	/	Pass
			848.8	0.311	/	Pass
	GPRS	1 TX Slot	824.2	0.314	/	Pass
			836.6	0.310	/	Pass
			848.8	0.314	/	Pass
	EGPRS	1 TX Slot	824.2	0.310	/	Pass
			836.6	0.301	/	Pass
			848.8	0.312	/	Pass

3.2 Test Graph

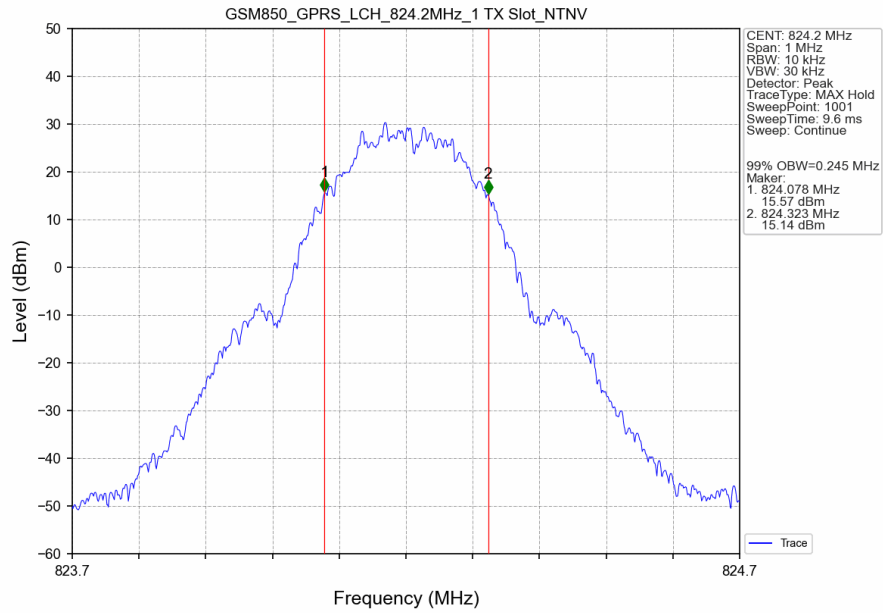
3.2.1 GSM850_OBW



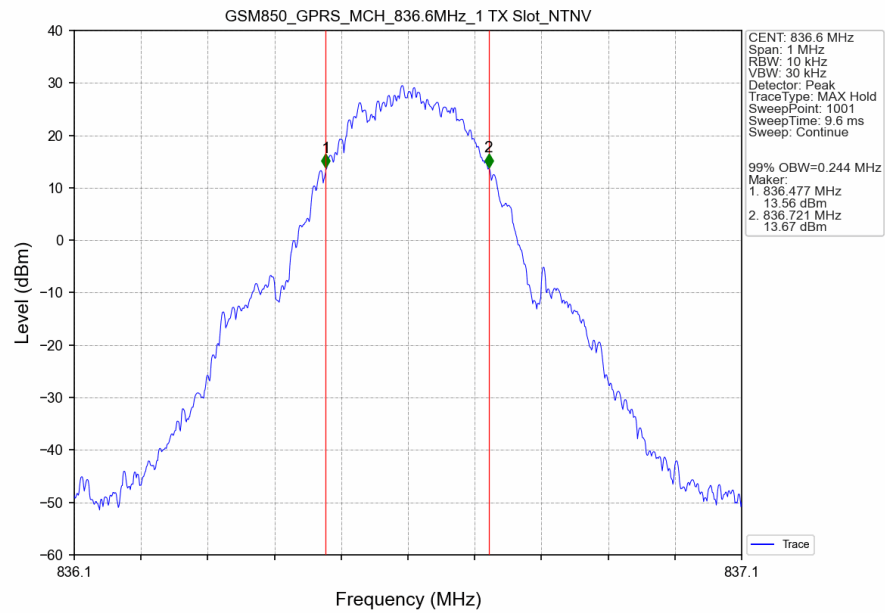
GSM850 GSM HCH 848.8MHz GSM NTNV



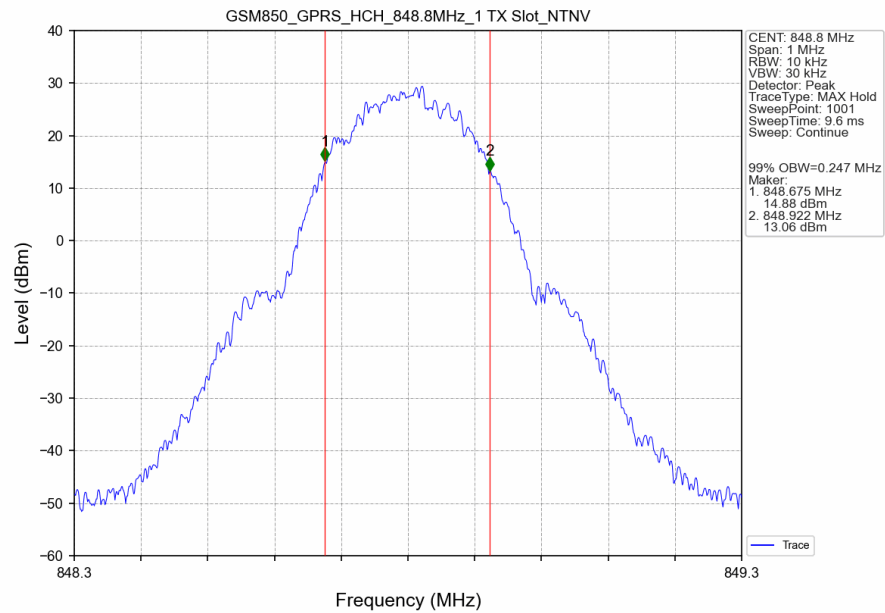
GSM850 GPRS LCH 824.2MHz_1 TX Slot_NTNV



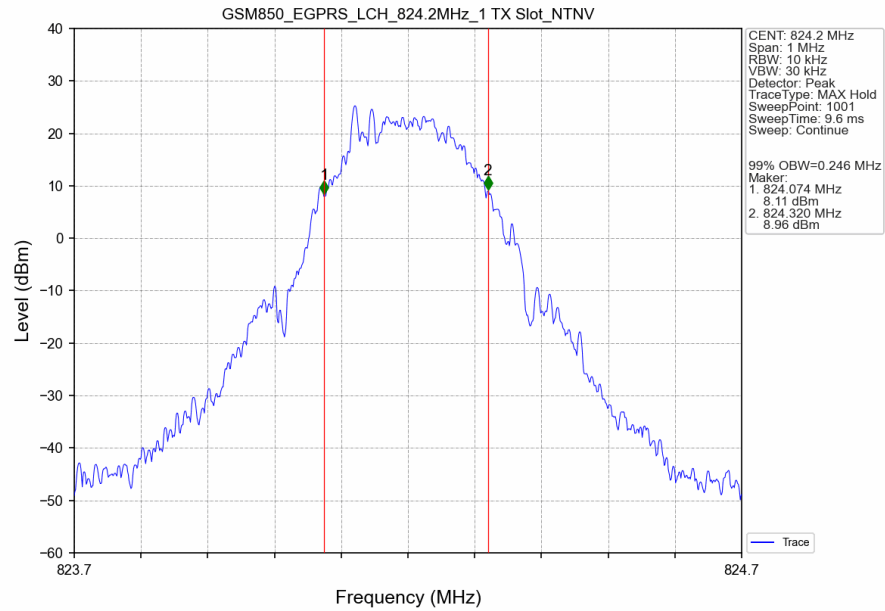
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



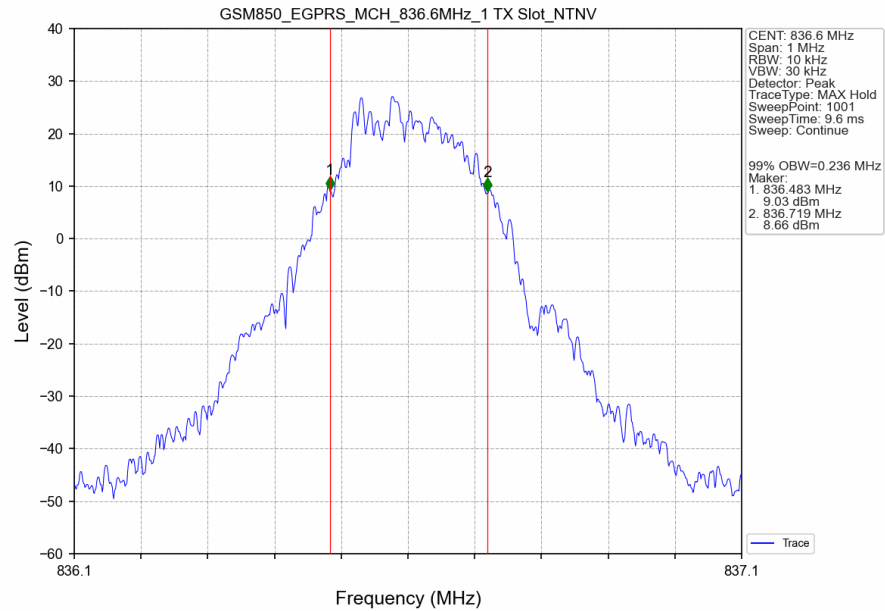
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



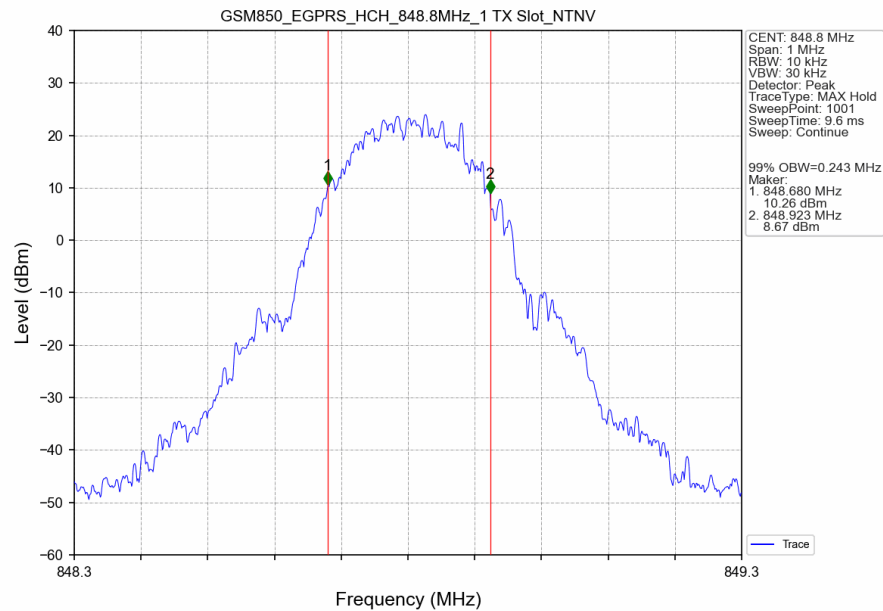
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



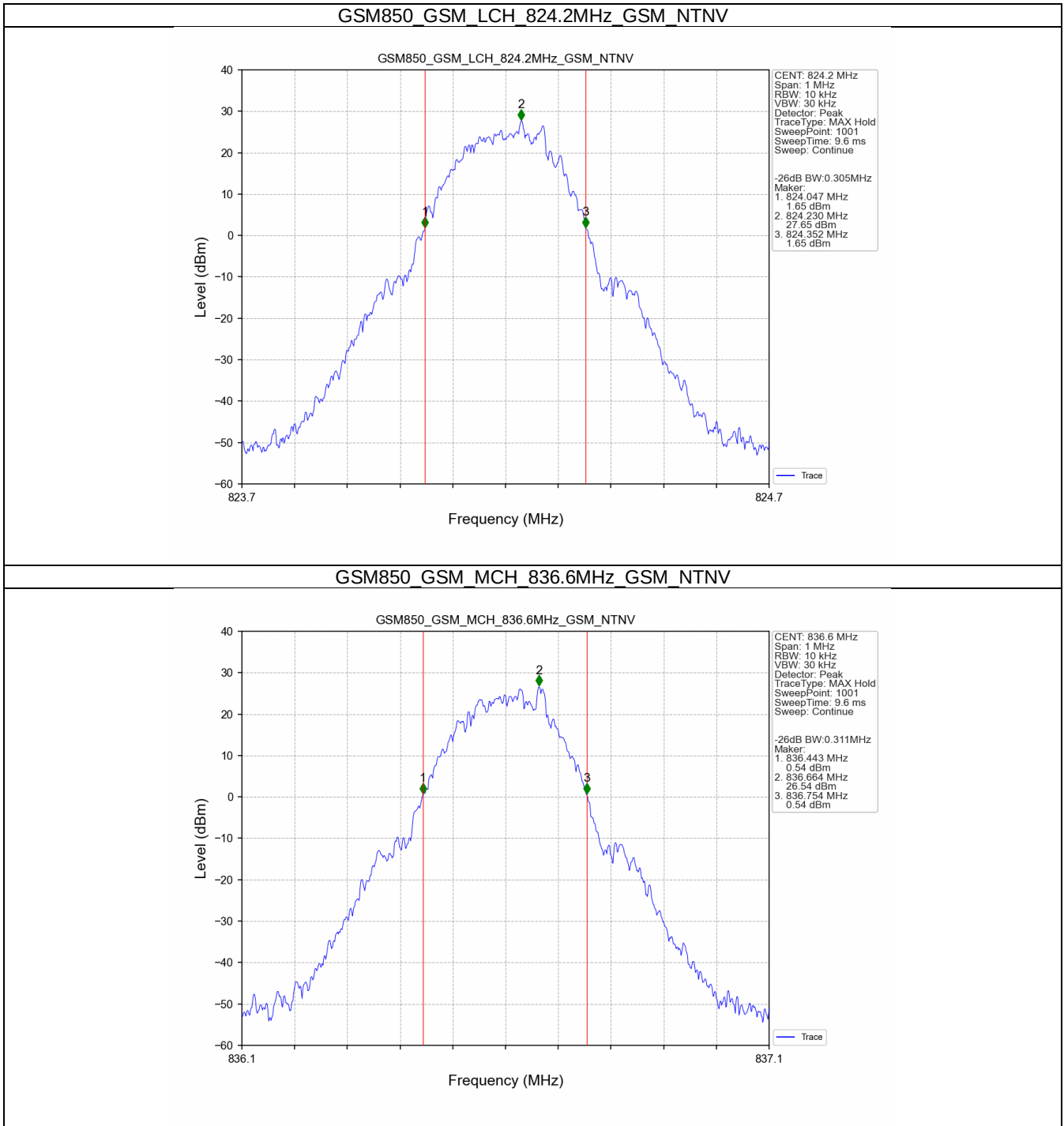
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



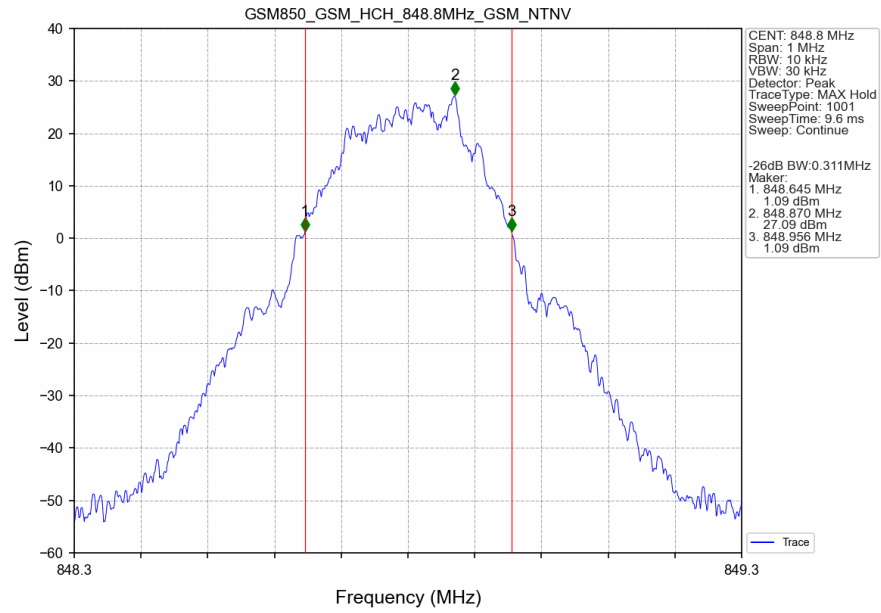
GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



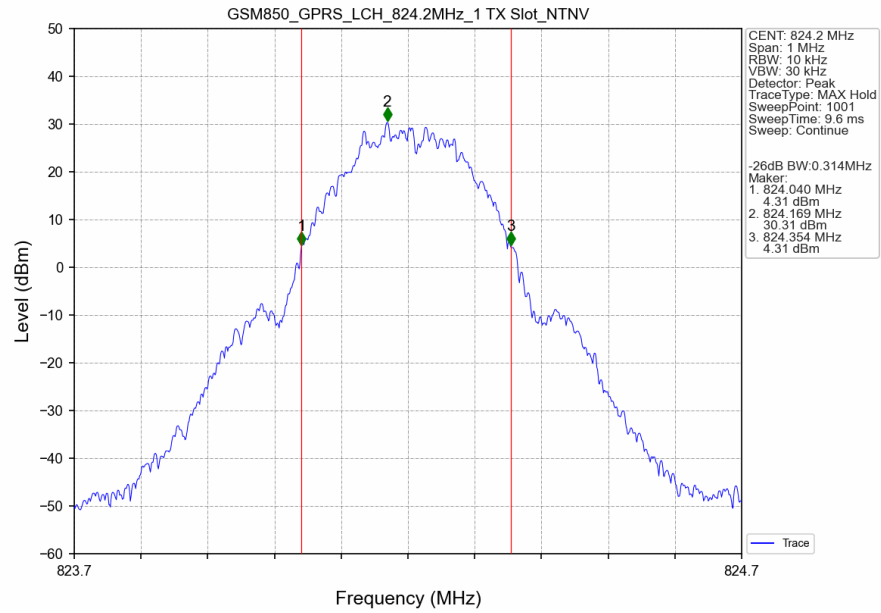
3.2.2 GSM850_XDB



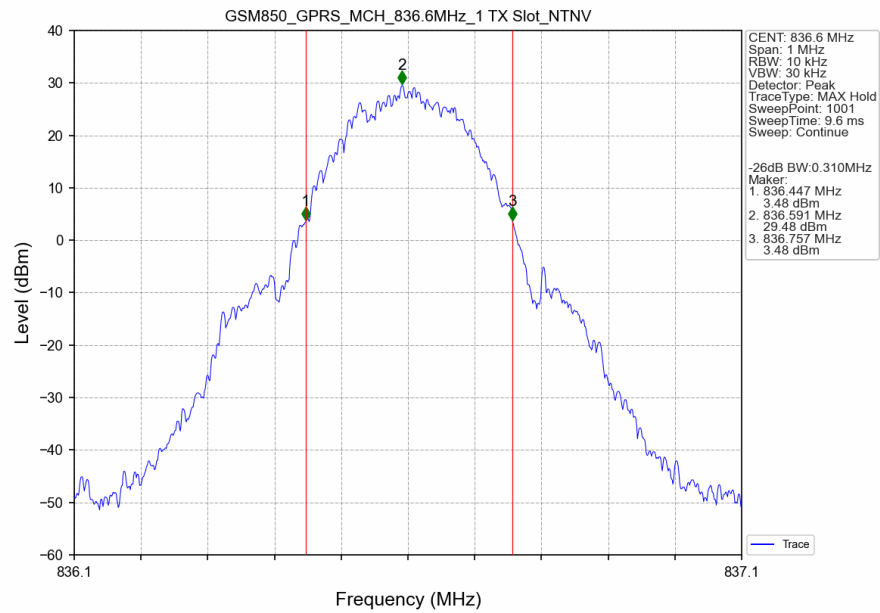
GSM850 GSM HCH 848.8MHz GSM NTNV



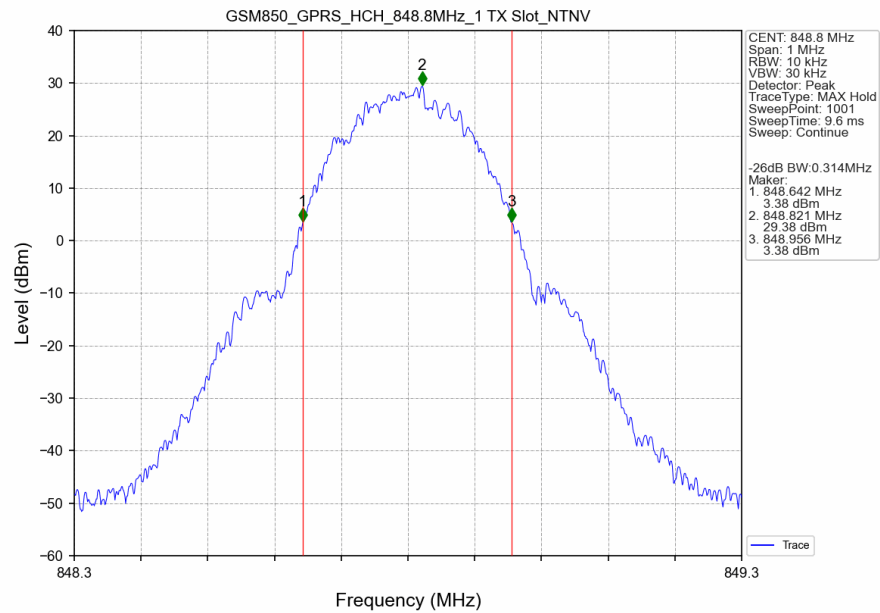
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



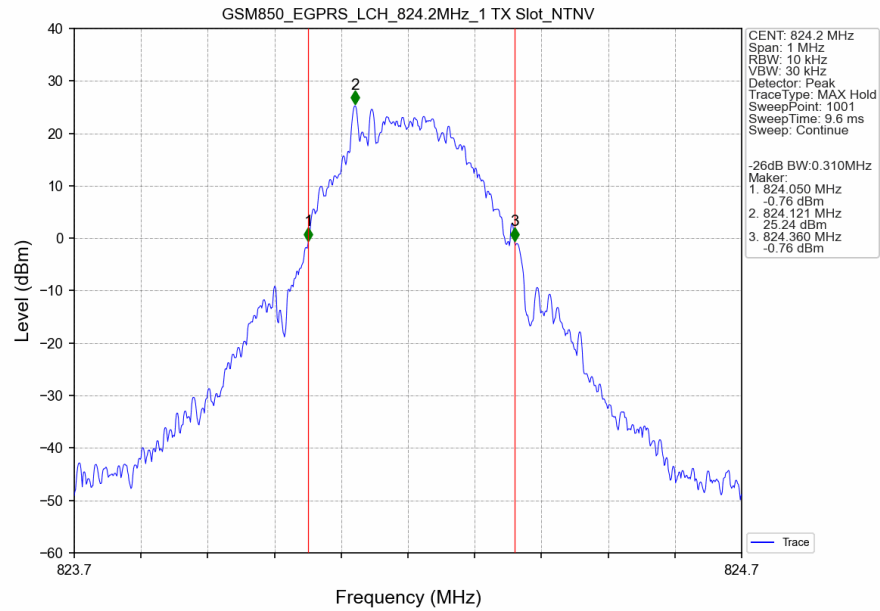
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



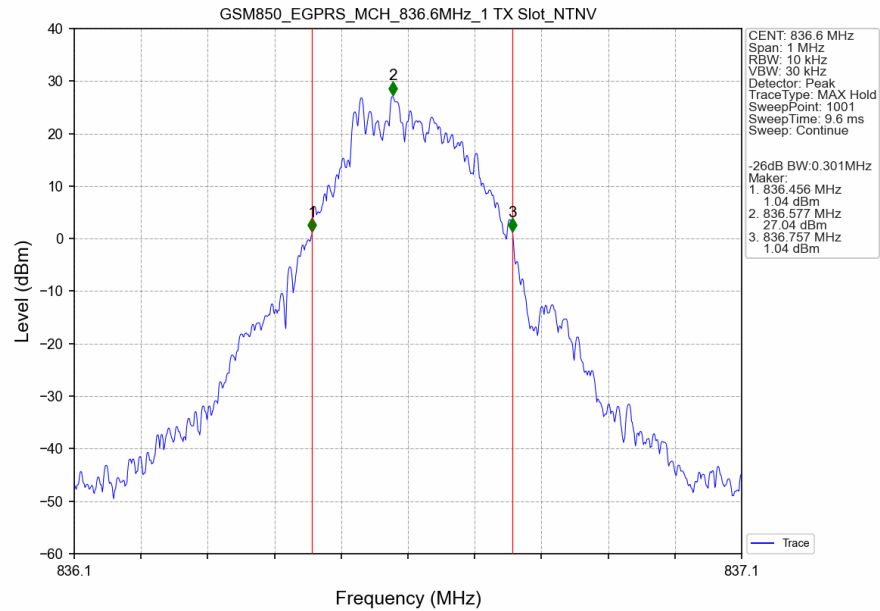
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



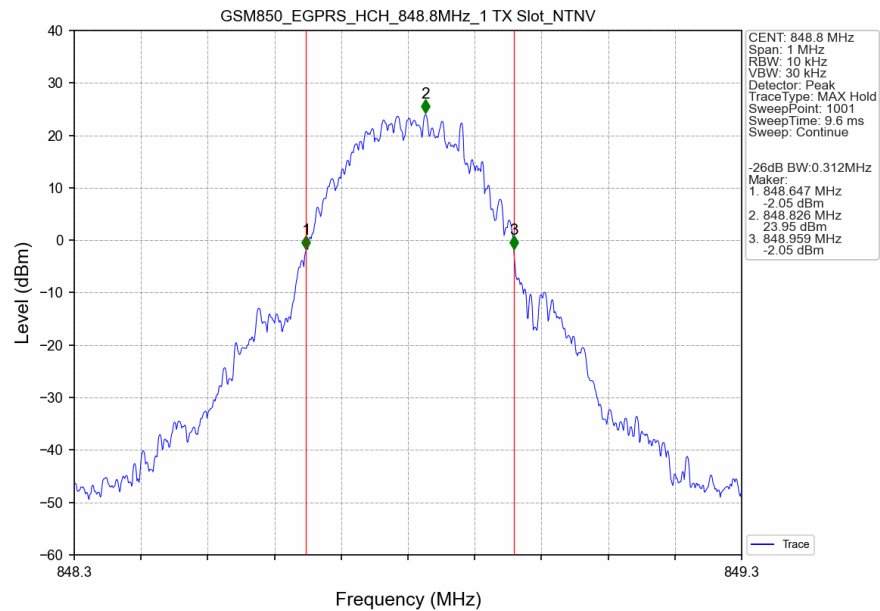
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

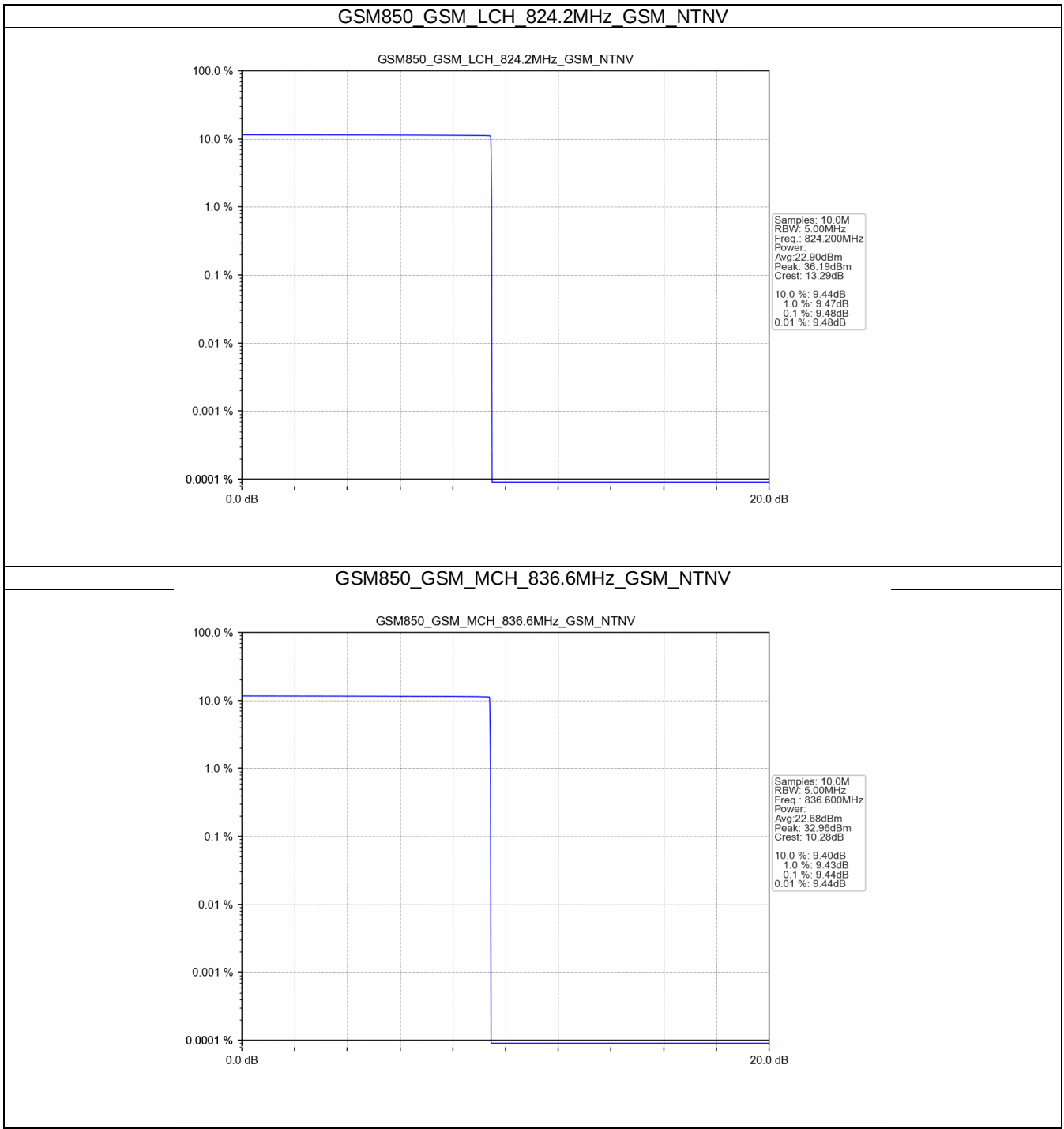
4.1 Test Result

4.1.1 GSM850

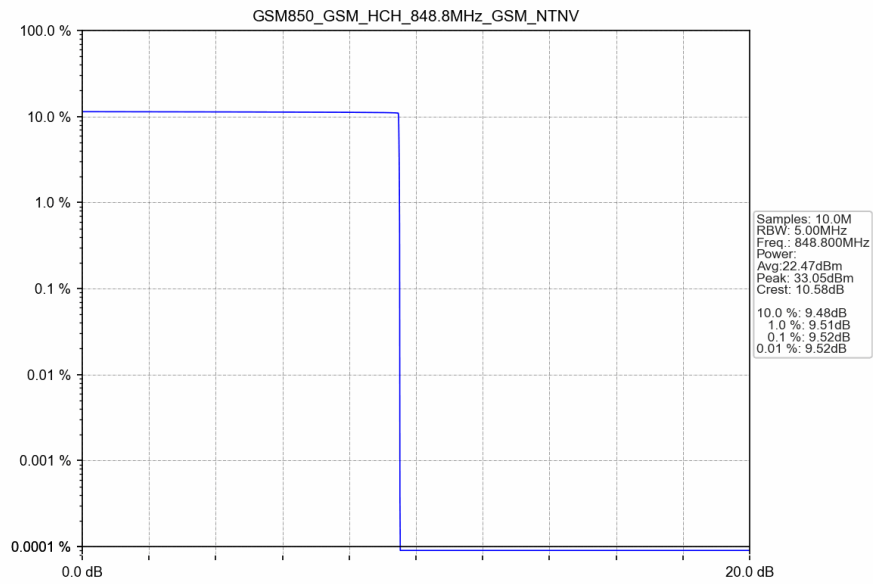
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.48	<=13	Pass
			836.6	9.44	<=13	Pass
			848.8	9.52	<=13	Pass
	GPRS	4 TX Slots	824.2	3.57	<=13	Pass
			836.6	3.65	<=13	Pass
			848.8	3.67	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.18	<=13	Pass
			836.6	8.89	<=13	Pass
			848.8	9.33	<=13	Pass

4.2 Test Graph

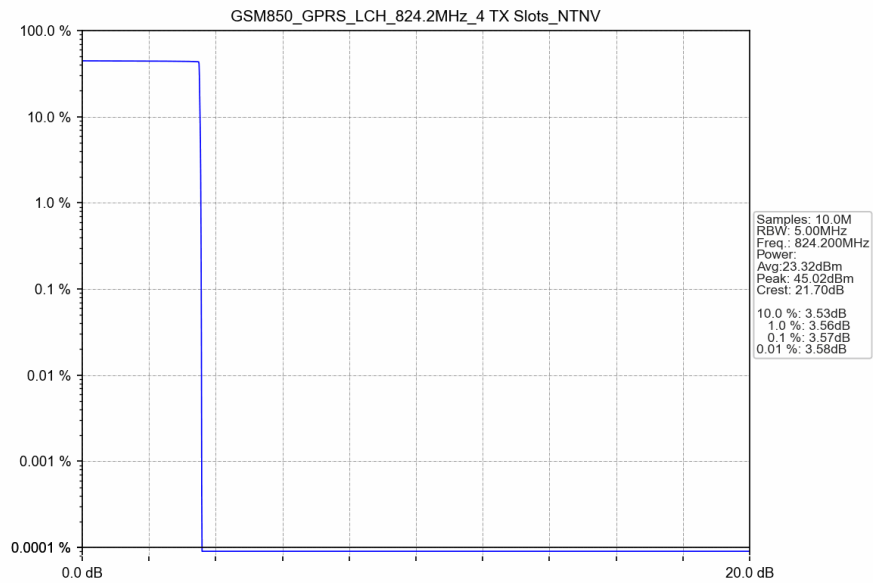
4.2.1 GSM850



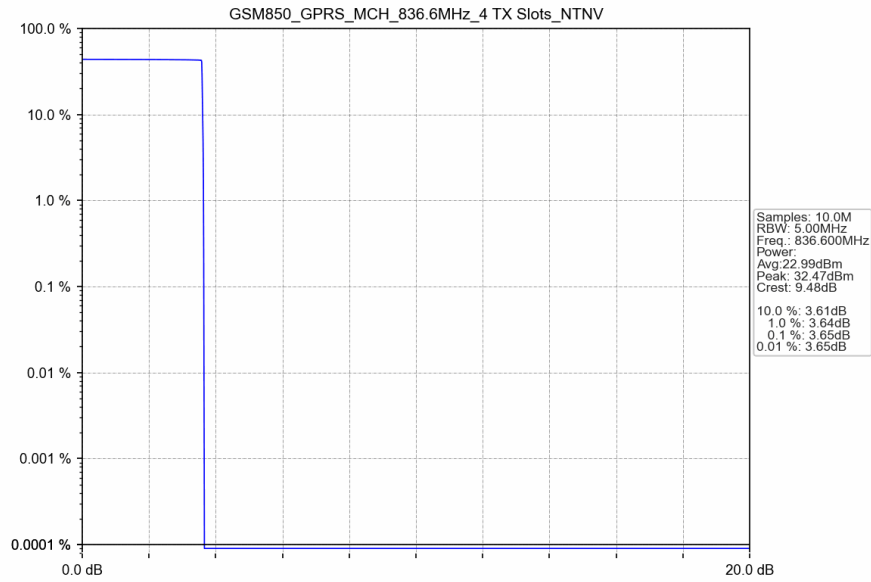
GSM850 GSM HCH 848.8MHz GSM NTNV



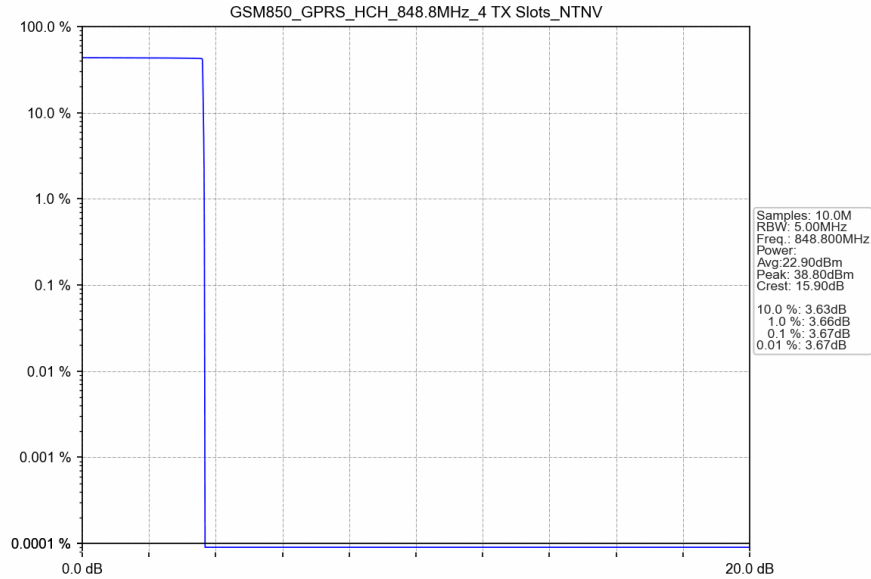
GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



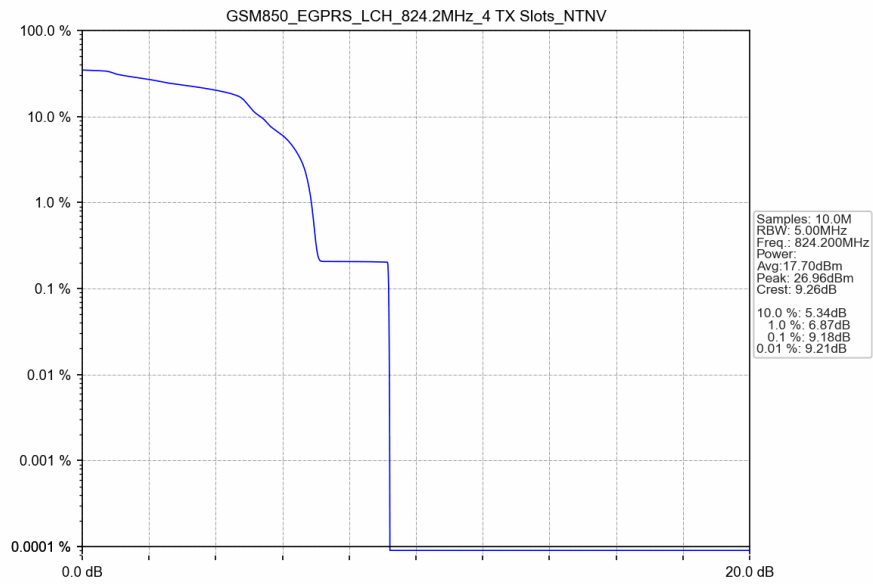
GSM850 GPRS MCH 836.6MHz 4 TX Slots NTNV



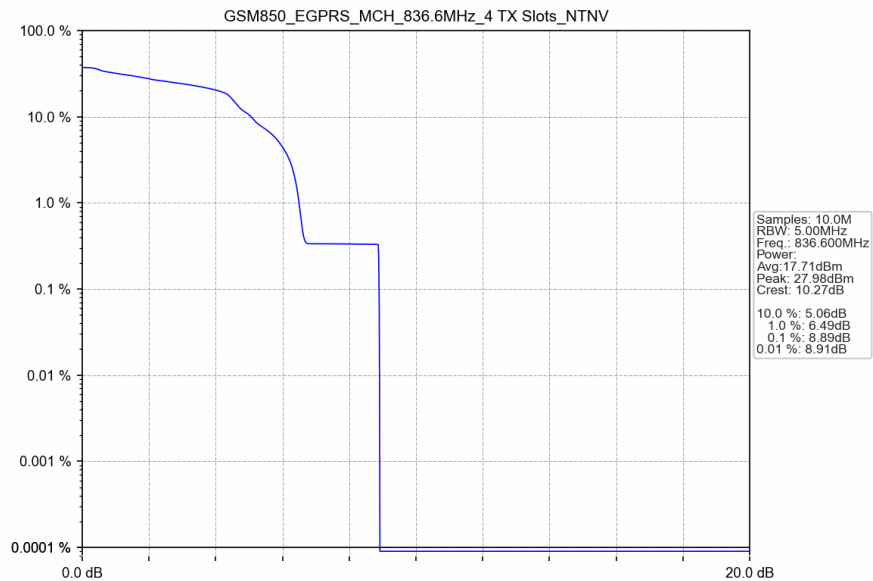
GSM850 GPRS HCH 848.8MHz 4 TX Slots NTNV



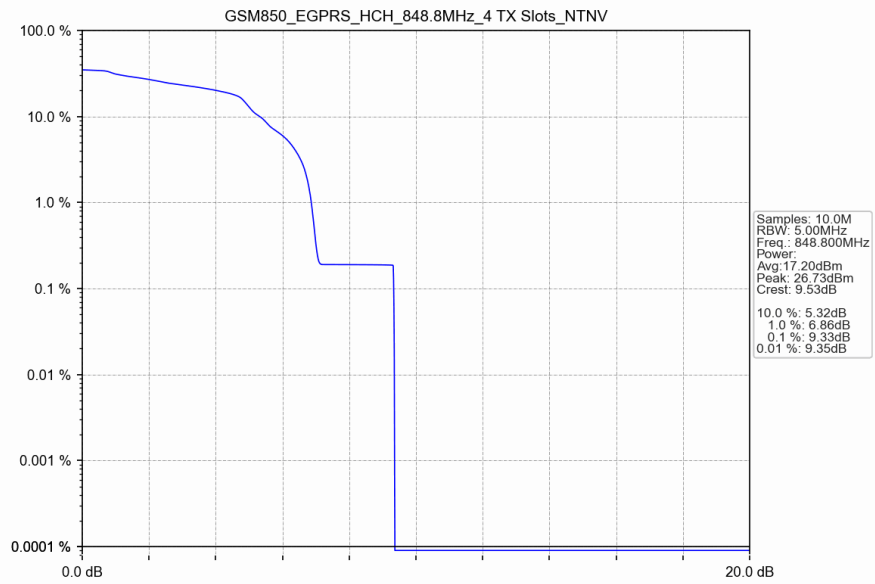
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850 EGPRS HCH 848.8MHz 4 TX Slots NTNV



5. Spurious Emission

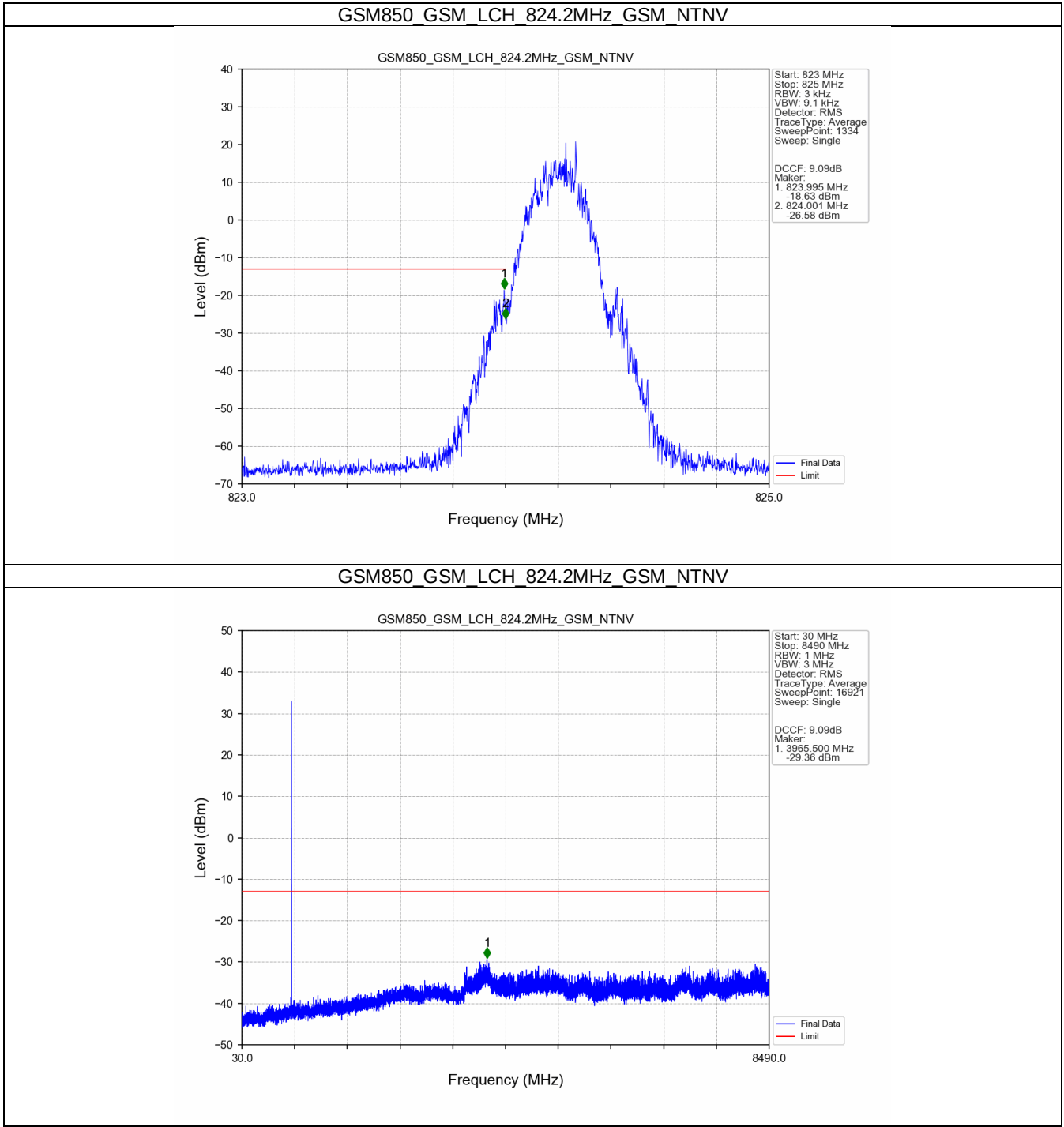
5.1 Test Result

5.1.1 GSM850

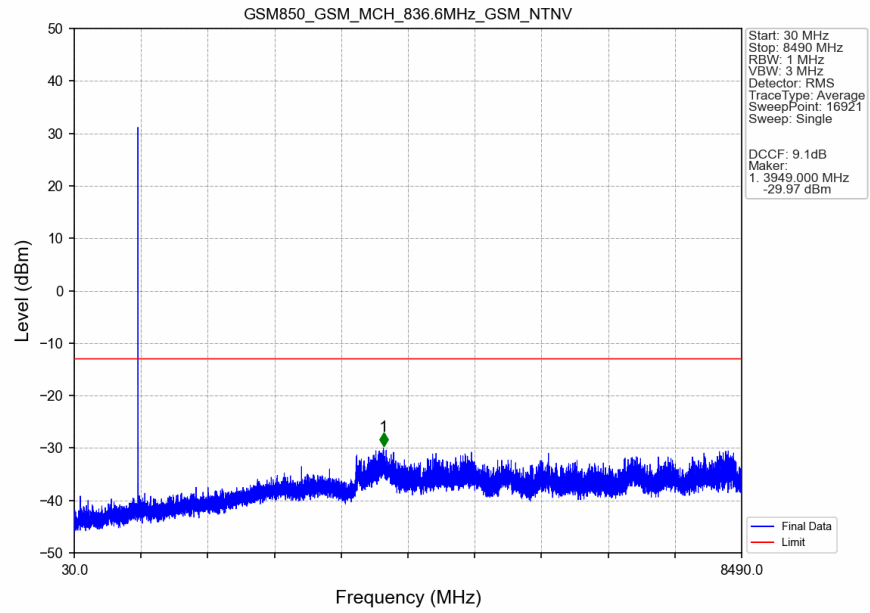
Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass
	GPRS	1 TX Slot	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass

5.2 Test Graph

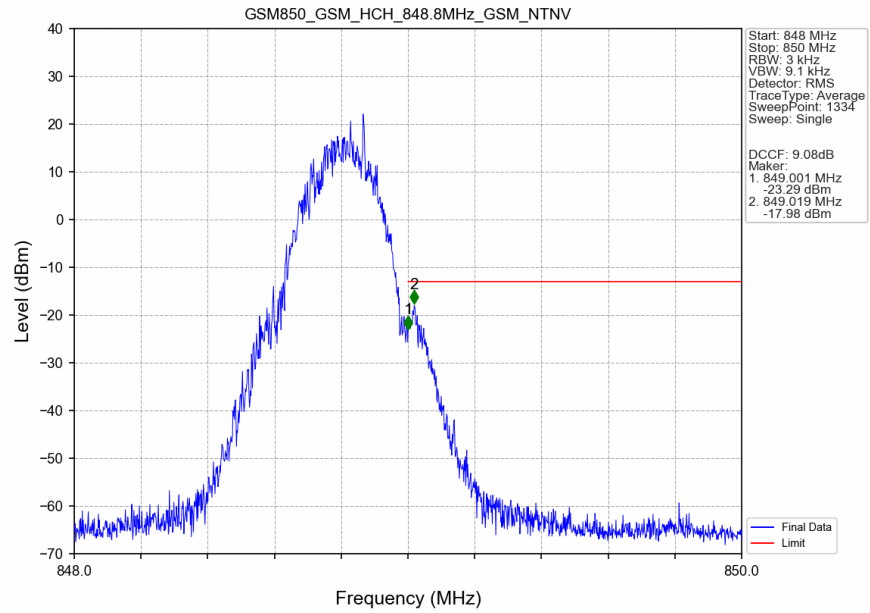
5.2.1 GSM850



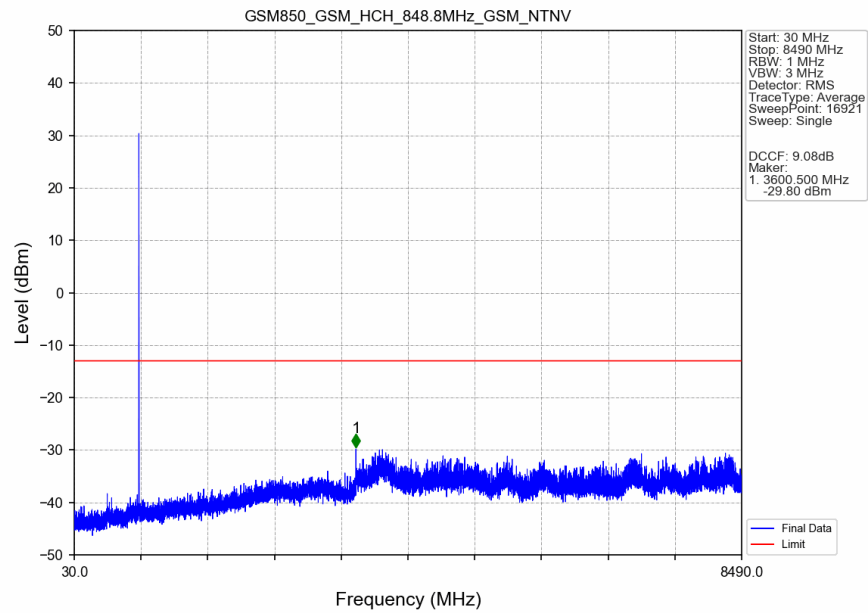
GSM850 GSM MCH 836.6MHz GSM NTNV



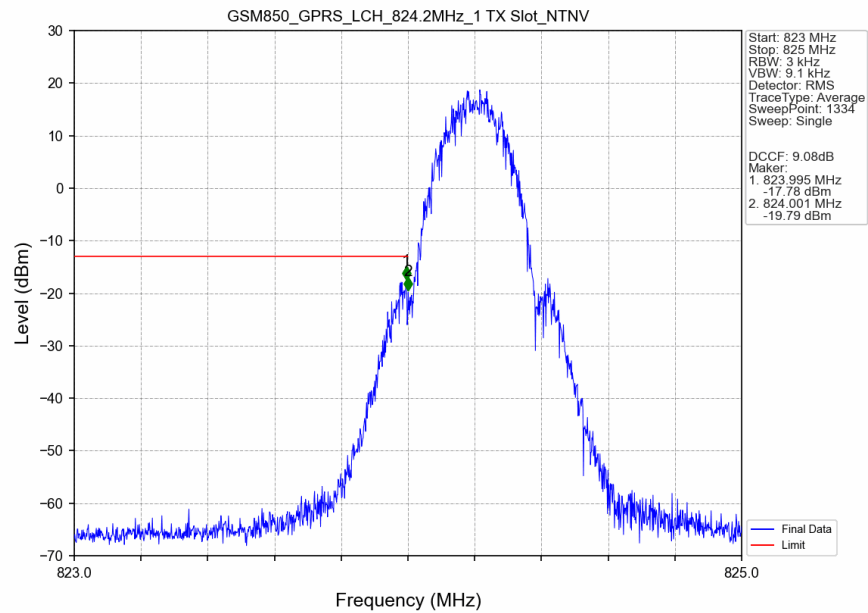
GSM850 GSM HCH 848.8MHz GSM NTNV



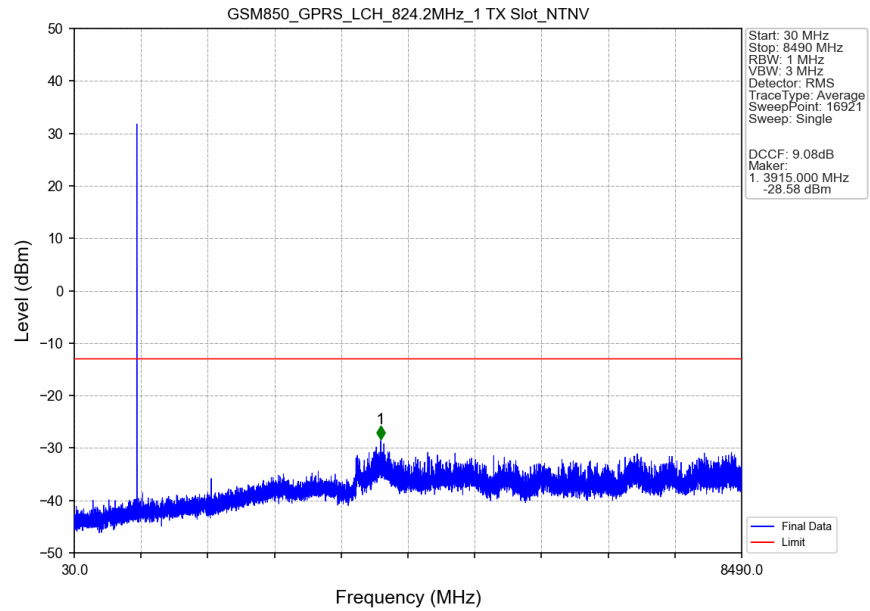
GSM850 GSM HCH 848.8MHz GSM NTN



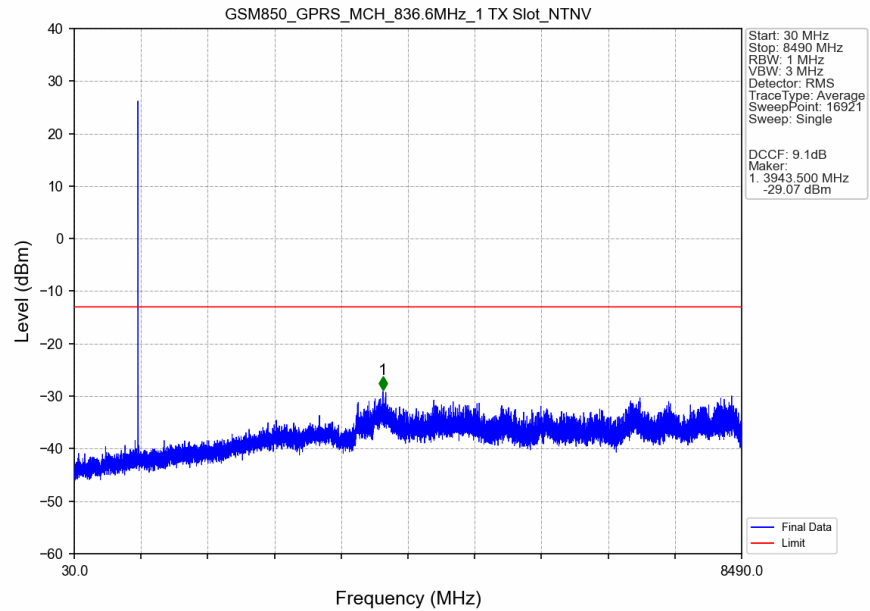
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



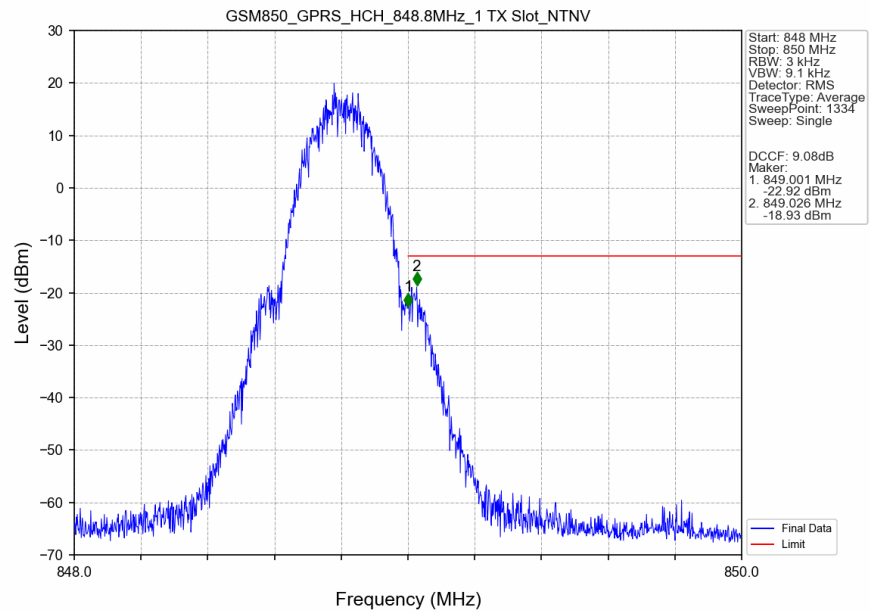
GSM850 GPRS LCH 824.2MHz 1 TX Slot_NTNV



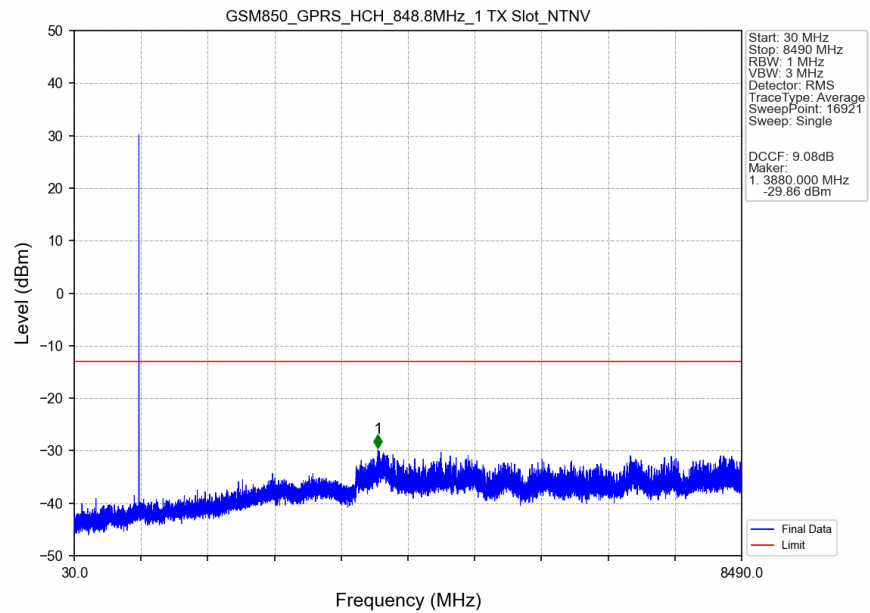
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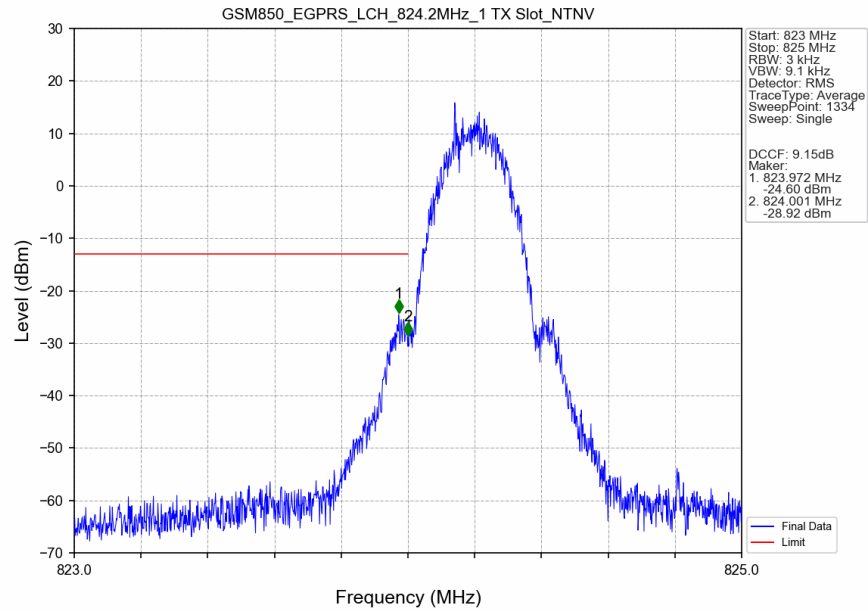
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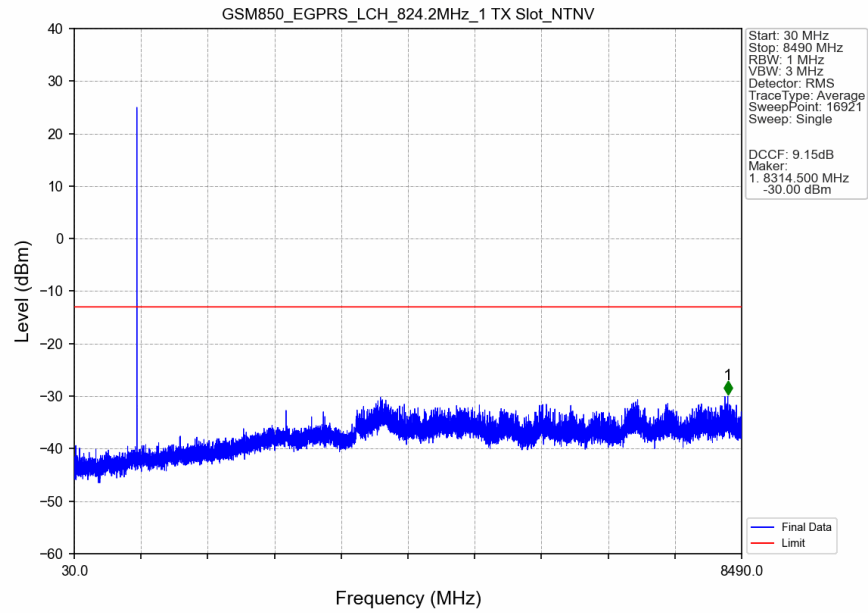
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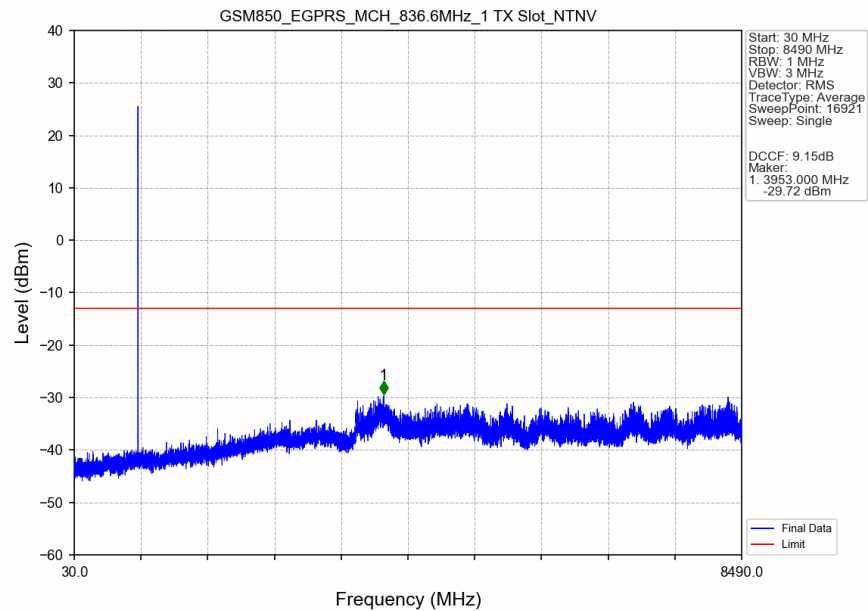
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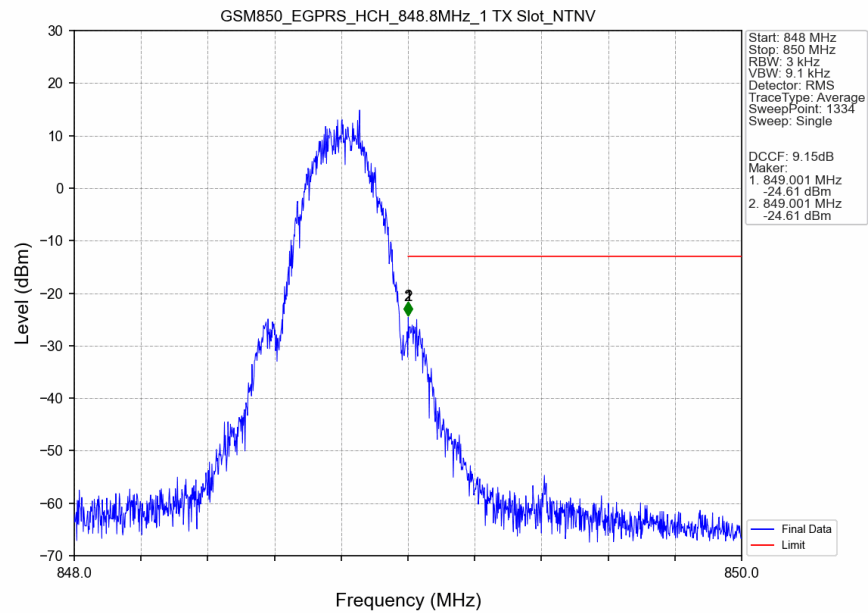
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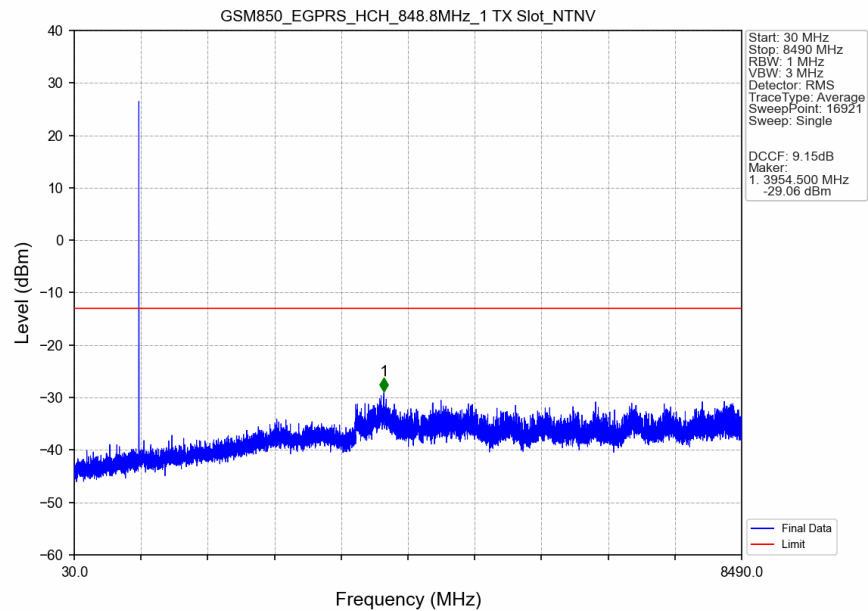
GSM850 EGPRS MCH 836.6MHz 1 TX Slot_NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot_NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



6. Field Strength of Spurious Radiation

GSM850-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1648.4	-63.65	-13	-50.65	-66.54	2.62	5.51	Horizontal	Pass
2472.6	-59.67	-13	-46.67	-62.36	3.06	5.75	Horizontal	Pass
3296.8	-57.12	-13	-44.12	-61.48	3.3	7.66	Horizontal	Pass
1648.4	-63.31	-13	-50.31	-66.2	2.62	5.51	Vertical	Pass
2472.6	-61.36	-13	-48.36	-64.05	3.06	5.75	Vertical	Pass
3296.8	-57.83	-13	-44.83	-62.19	3.3	7.66	Vertical	Pass

GSM850-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1672.8	-64.14	-13	-51.14	-66.95	2.63	5.44	Horizontal	Pass
2509.2	-59.98	-13	-46.98	-62.74	3.08	5.84	Horizontal	Pass
3345.6	-56.76	-13	-43.76	-61.22	3.32	7.78	Horizontal	Pass
1672.8	-62.79	-13	-49.79	-65.6	2.63	5.44	Vertical	Pass
2509.2	-60.76	-13	-47.76	-63.52	3.08	5.84	Vertical	Pass
3345.6	-56.63	-13	-43.63	-61.09	3.32	7.78	Vertical	Pass

GSM850-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1693.2	-64.21	-13	-51.21	-66.97	2.63	5.39	Horizontal	Pass
2539.8	-61.72	-13	-48.72	-64.54	3.09	5.91	Horizontal	Pass
3386.4	-58.04	-13	-45.04	-62.59	3.34	7.89	Horizontal	Pass
1693.2	-62.44	-13	-49.44	-65.2	2.63	5.39	Vertical	Pass
2539.8	-60.21	-13	-47.21	-63.03	3.09	5.91	Vertical	Pass
3386.4	-59.32	-13	-46.32	-63.87	3.34	7.89	Vertical	Pass