

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 GSM850_ERP

Band: GSM850									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	GSM	GSM	824.2	33.04	-3.46	27.43	<=38.45	Pass	
			836.6	33.07	-3.46	27.46	<=38.45	Pass	
			848.8	33.00	-3.46	27.39	<=38.45	Pass	
	GPRS	1 TX Slot	824.2	33.00	-3.46	27.39	<=38.45	Pass	
		2 TX Slots	824.2	30.02	-3.46	24.41	<=38.45	Pass	
		3 TX Slots	824.2	27.99	-3.46	22.38	<=38.45	Pass	
		4 TX Slots	824.2	26.82	-3.46	21.21	<=38.45	Pass	
		1 TX Slot	836.6	32.99	-3.46	27.38	<=38.45	Pass	
		2 TX Slots	836.6	30.01	-3.46	24.40	<=38.45	Pass	
		3 TX Slots	836.6	27.98	-3.46	22.37	<=38.45	Pass	
		4 TX Slots	836.6	26.84	-3.46	21.23	<=38.45	Pass	
		1 TX Slot	848.8	32.89	-3.46	27.28	<=38.45	Pass	
		2 TX Slots	848.8	29.92	-3.46	24.31	<=38.45	Pass	
		3 TX Slots	848.8	27.87	-3.46	22.26	<=38.45	Pass	
		4 TX Slots	848.8	26.70	-3.46	21.09	<=38.45	Pass	
		EGPRS	1 TX Slot	824.2	26.85	-3.46	21.24	<=38.45	Pass
			2 TX Slots	824.2	23.87	-3.46	18.26	<=38.45	Pass
			3 TX Slots	824.2	21.68	-3.46	16.07	<=38.45	Pass
			4 TX Slots	824.2	20.44	-3.46	14.83	<=38.45	Pass
	1 TX Slot		836.6	26.70	-3.46	21.09	<=38.45	Pass	
	2 TX Slots		836.6	24.05	-3.46	18.44	<=38.45	Pass	
	3 TX Slots		836.6	21.93	-3.46	16.32	<=38.45	Pass	
	4 TX Slots		836.6	20.45	-3.46	14.84	<=38.45	Pass	
	1 TX Slot		848.8	26.64	-3.46	21.03	<=38.45	Pass	
	2 TX Slots		848.8	23.84	-3.46	18.23	<=38.45	Pass	
	3 TX Slots		848.8	21.74	-3.46	16.13	<=38.45	Pass	
	4 TX Slots		848.8	20.59	-3.46	14.98	<=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	-5.973	-0.0072	-2.5 to 2.5	Pass
			NV	-8.459	-0.0103	-2.5 to 2.5	Pass
			HV	-8.233	-0.0100	-2.5 to 2.5	Pass
		-30	NV	-3.293	-0.0040	-2.5 to 2.5	Pass
		-20	NV	-7.975	-0.0097	-2.5 to 2.5	Pass
		-10	NV	-7.361	-0.0089	-2.5 to 2.5	Pass
		0	NV	-6.554	-0.0080	-2.5 to 2.5	Pass
		10	NV	-3.487	-0.0042	-2.5 to 2.5	Pass
		30	NV	-2.615	-0.0032	-2.5 to 2.5	Pass
		40	NV	-5.037	-0.0061	-2.5 to 2.5	Pass
	50	NV	-0.613	-0.0007	-2.5 to 2.5	Pass	
	836.6	20	LV	-3.810	-0.0046	-2.5 to 2.5	Pass
			NV	-5.101	-0.0061	-2.5 to 2.5	Pass
			HV	-5.715	-0.0068	-2.5 to 2.5	Pass
		-30	NV	-5.004	-0.0060	-2.5 to 2.5	Pass
		-20	NV	-3.551	-0.0042	-2.5 to 2.5	Pass
		-10	NV	-6.199	-0.0074	-2.5 to 2.5	Pass
		0	NV	-6.360	-0.0076	-2.5 to 2.5	Pass
		10	NV	0.613	0.0007	-2.5 to 2.5	Pass
		30	NV	-0.129	-0.0002	-2.5 to 2.5	Pass
		40	NV	-3.777	-0.0045	-2.5 to 2.5	Pass
	50	NV	-3.261	-0.0039	-2.5 to 2.5	Pass	
	848.8	20	LV	-7.167	-0.0084	-2.5 to 2.5	Pass
			NV	-10.105	-0.0119	-2.5 to 2.5	Pass
			HV	-6.070	-0.0072	-2.5 to 2.5	Pass
		-30	NV	-9.331	-0.0110	-2.5 to 2.5	Pass
		-20	NV	-9.072	-0.0107	-2.5 to 2.5	Pass
		-10	NV	-5.973	-0.0070	-2.5 to 2.5	Pass
		0	NV	-8.394	-0.0099	-2.5 to 2.5	Pass
		10	NV	-6.845	-0.0081	-2.5 to 2.5	Pass
30		NV	-7.523	-0.0089	-2.5 to 2.5	Pass	
40		NV	-11.526	-0.0136	-2.5 to 2.5	Pass	
50	NV	-9.427	-0.0111	-2.5 to 2.5	Pass		
GPRS	824.2	20	LV	-9.815	-0.0119	-2.5 to 2.5	Pass
			NV	-6.586	-0.0080	-2.5 to 2.5	Pass
			HV	-10.073	-0.0122	-2.5 to 2.5	Pass
		-30	NV	-7.167	-0.0087	-2.5 to 2.5	Pass
		-20	NV	-8.685	-0.0105	-2.5 to 2.5	Pass
		-10	NV	-10.105	-0.0123	-2.5 to 2.5	Pass
		0	NV	-8.588	-0.0104	-2.5 to 2.5	Pass
		10	NV	-8.911	-0.0108	-2.5 to 2.5	Pass
		30	NV	-14.109	-0.0171	-2.5 to 2.5	Pass
		40	NV	-9.718	-0.0118	-2.5 to 2.5	Pass
	50	NV	-11.526	-0.0140	-2.5 to 2.5	Pass	
	836.6	20	LV	-9.718	-0.0116	-2.5 to 2.5	Pass
			NV	-6.102	-0.0073	-2.5 to 2.5	Pass
HV			-9.492	-0.0113	-2.5 to 2.5	Pass	

	848.8	-30	NV	-10.041	-0.0120	-2.5 to 2.5	Pass
		-20	NV	-7.910	-0.0095	-2.5 to 2.5	Pass
		-10	NV	-8.330	-0.0100	-2.5 to 2.5	Pass
		0	NV	-7.781	-0.0093	-2.5 to 2.5	Pass
		10	NV	-8.201	-0.0098	-2.5 to 2.5	Pass
		30	NV	-11.397	-0.0136	-2.5 to 2.5	Pass
		40	NV	-8.588	-0.0103	-2.5 to 2.5	Pass
	50	NV	-12.591	-0.0151	-2.5 to 2.5	Pass	
	848.8	20	LV	-10.557	-0.0124	-2.5 to 2.5	Pass
			NV	-8.943	-0.0105	-2.5 to 2.5	Pass
			HV	-5.392	-0.0064	-2.5 to 2.5	Pass
		-30	NV	-8.104	-0.0095	-2.5 to 2.5	Pass
		-20	NV	-8.814	-0.0104	-2.5 to 2.5	Pass
		-10	NV	-12.333	-0.0145	-2.5 to 2.5	Pass
		0	NV	-7.264	-0.0086	-2.5 to 2.5	Pass
		10	NV	-8.491	-0.0100	-2.5 to 2.5	Pass
		30	NV	-11.235	-0.0132	-2.5 to 2.5	Pass
		40	NV	-10.557	-0.0124	-2.5 to 2.5	Pass
		50	NV	-16.046	-0.0189	-2.5 to 2.5	Pass
EGPRS		824.2	20	LV	-11.042	-0.0134	-2.5 to 2.5
	NV			-15.659	-0.0190	-2.5 to 2.5	Pass
	HV			-15.885	-0.0193	-2.5 to 2.5	Pass
	-30		NV	-11.429	-0.0139	-2.5 to 2.5	Pass
	-20		NV	-13.915	-0.0169	-2.5 to 2.5	Pass
	-10		NV	-10.525	-0.0128	-2.5 to 2.5	Pass
	0		NV	-13.560	-0.0165	-2.5 to 2.5	Pass
	10		NV	-12.817	-0.0156	-2.5 to 2.5	Pass
	30		NV	-7.167	-0.0087	-2.5 to 2.5	Pass
	40		NV	-7.232	-0.0088	-2.5 to 2.5	Pass
	50		NV	-9.847	-0.0119	-2.5 to 2.5	Pass
	836.6	20	LV	-9.298	-0.0111	-2.5 to 2.5	Pass
			NV	-11.429	-0.0137	-2.5 to 2.5	Pass
			HV	-13.108	-0.0157	-2.5 to 2.5	Pass
		-30	NV	-15.174	-0.0181	-2.5 to 2.5	Pass
		-20	NV	-11.558	-0.0138	-2.5 to 2.5	Pass
		-10	NV	-8.975	-0.0107	-2.5 to 2.5	Pass
		0	NV	-12.107	-0.0145	-2.5 to 2.5	Pass
		10	NV	-7.071	-0.0085	-2.5 to 2.5	Pass
		30	NV	-7.200	-0.0086	-2.5 to 2.5	Pass
		40	NV	-9.105	-0.0109	-2.5 to 2.5	Pass
	50	NV	-10.009	-0.0120	-2.5 to 2.5	Pass	
	848.8	20	LV	-11.558	-0.0136	-2.5 to 2.5	Pass
			NV	-11.235	-0.0132	-2.5 to 2.5	Pass
			HV	-11.526	-0.0136	-2.5 to 2.5	Pass
		-30	NV	-12.269	-0.0145	-2.5 to 2.5	Pass
		-20	NV	-11.687	-0.0138	-2.5 to 2.5	Pass
-10		NV	-13.334	-0.0157	-2.5 to 2.5	Pass	
0		NV	-13.915	-0.0164	-2.5 to 2.5	Pass	
10		NV	-8.814	-0.0104	-2.5 to 2.5	Pass	
30		NV	-12.559	-0.0148	-2.5 to 2.5	Pass	
40		NV	-11.817	-0.0139	-2.5 to 2.5	Pass	
50	NV	-17.144	-0.0202	-2.5 to 2.5	Pass		

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

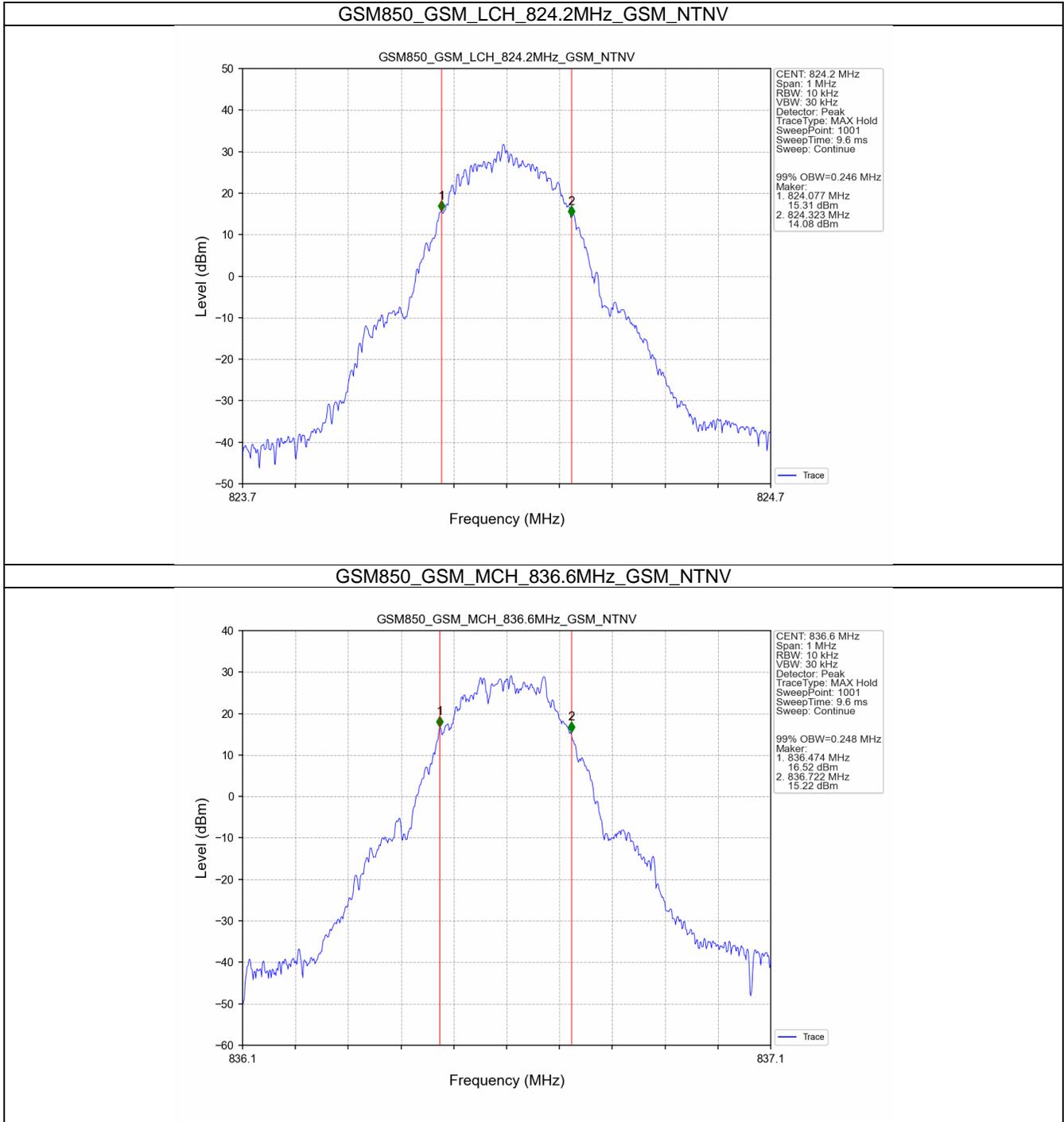
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.246	/	Pass
			836.6	0.248	/	Pass
			848.8	0.248	/	Pass
	GPRS	1 TX Slot	824.2	0.247	/	Pass
			836.6	0.243	/	Pass
			848.8	0.243	/	Pass
	EGPRS	1 TX Slot	824.2	0.271	/	Pass
			836.6	0.246	/	Pass
			848.8	0.241	/	Pass

3.1.2 GSM850_XDB

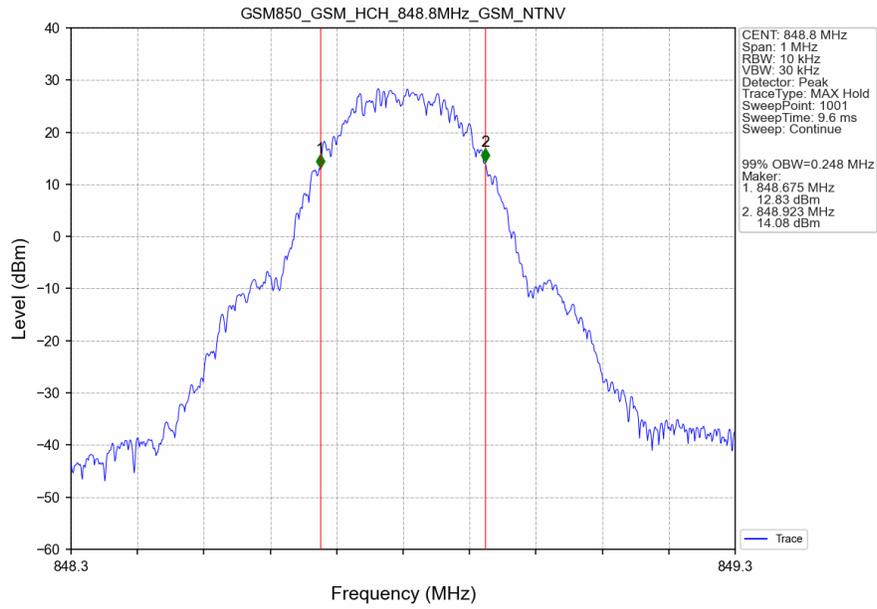
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ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.309	/	Pass
			836.6	0.324	/	Pass
			848.8	0.322	/	Pass
	GPRS	1 TX Slot	824.2	0.318	/	Pass
			836.6	0.310	/	Pass
			848.8	0.317	/	Pass
	EGPRS	1 TX Slot	824.2	0.338	/	Pass
			836.6	0.306	/	Pass
			848.8	0.302	/	Pass

3.2 Test Graph

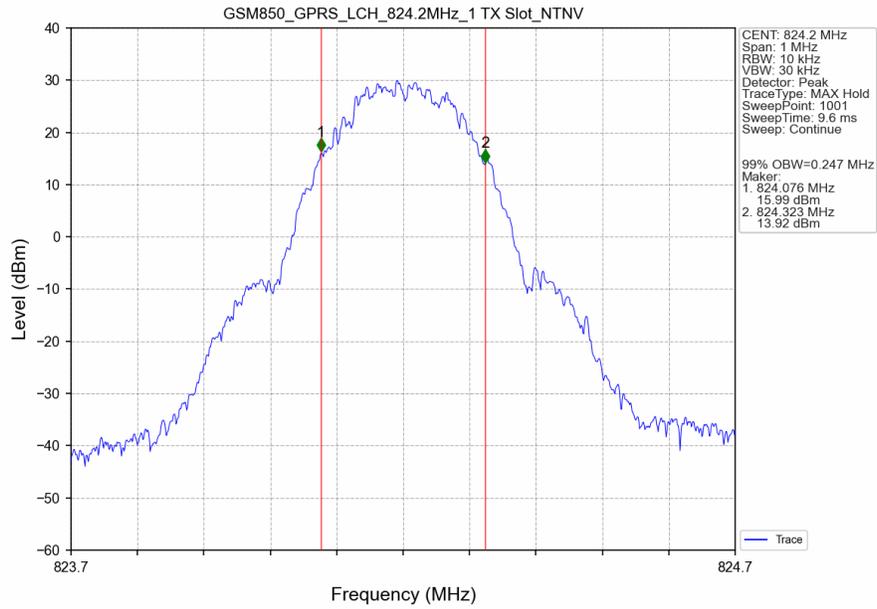
3.2.1 GSM850_OBW



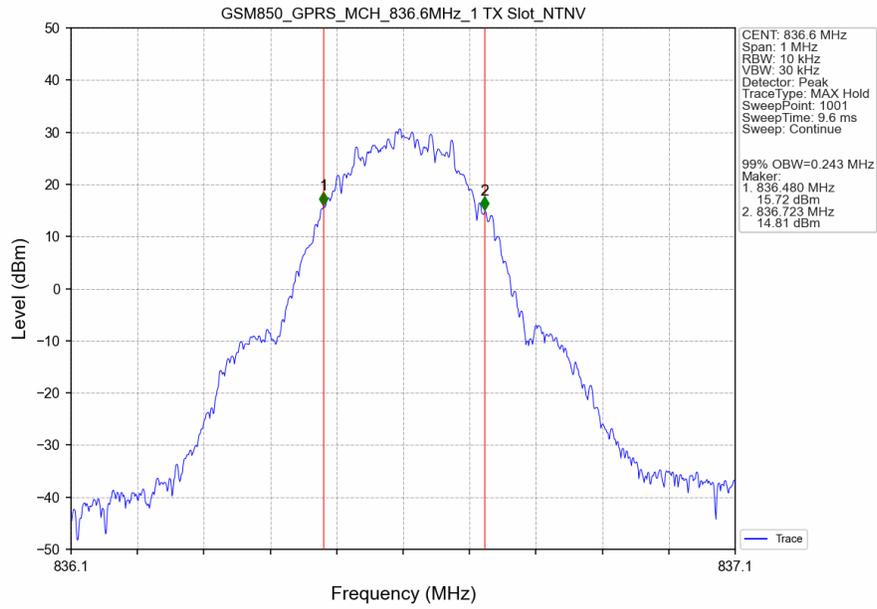
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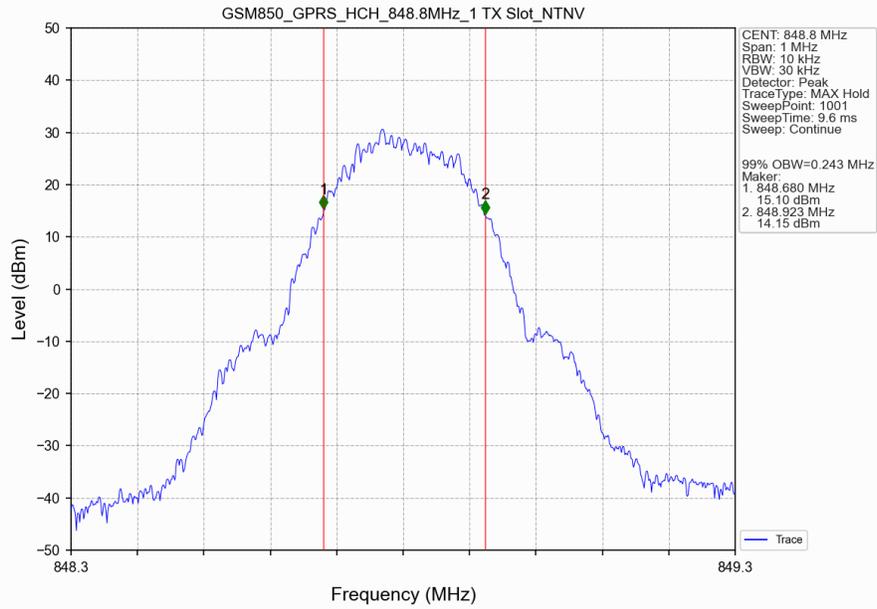
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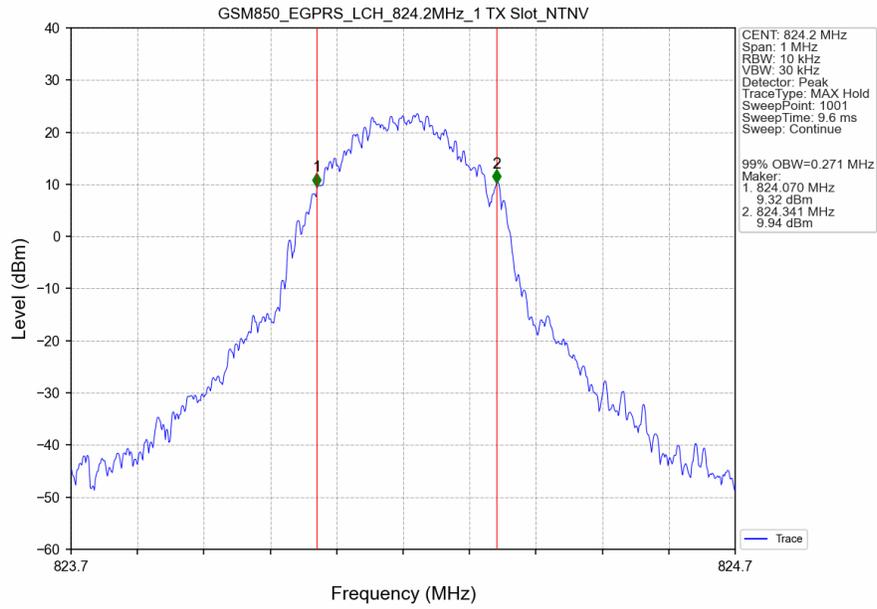
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



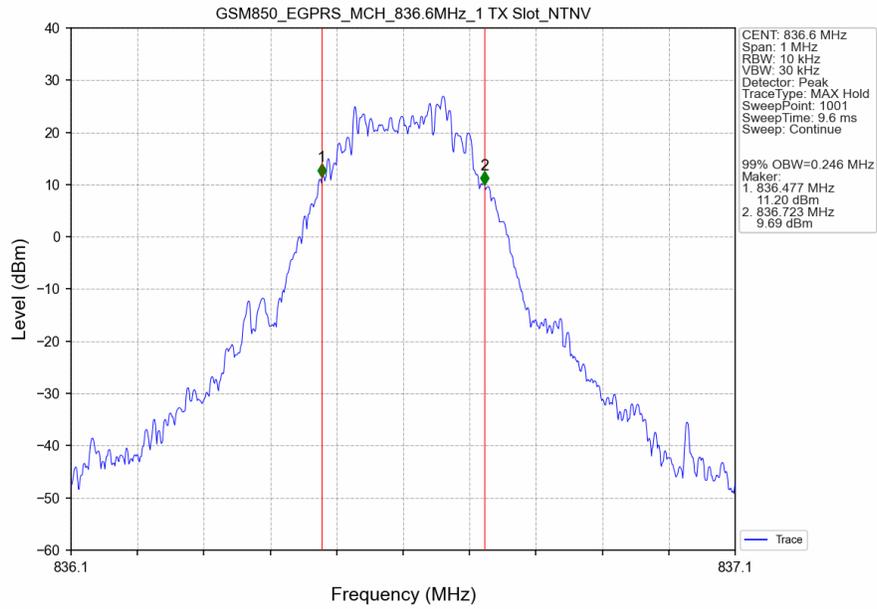
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



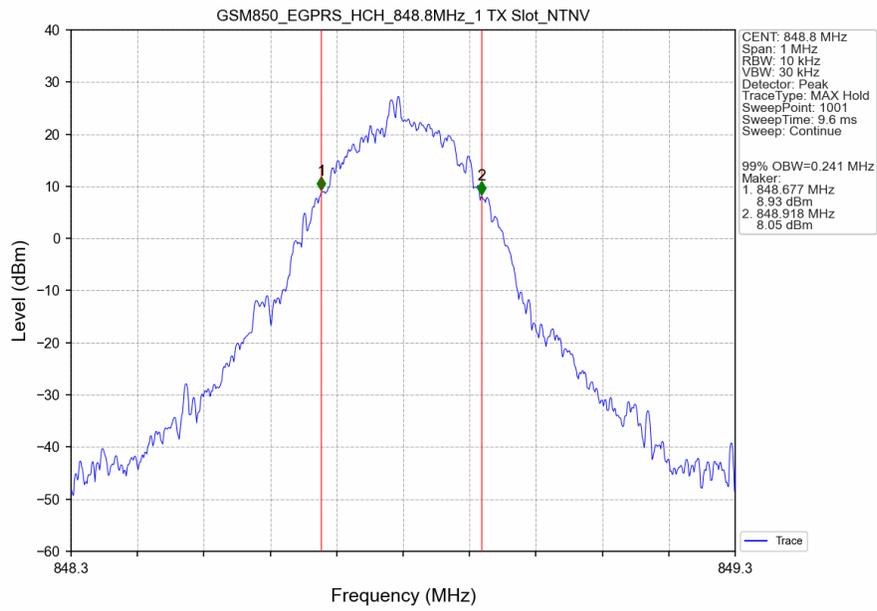
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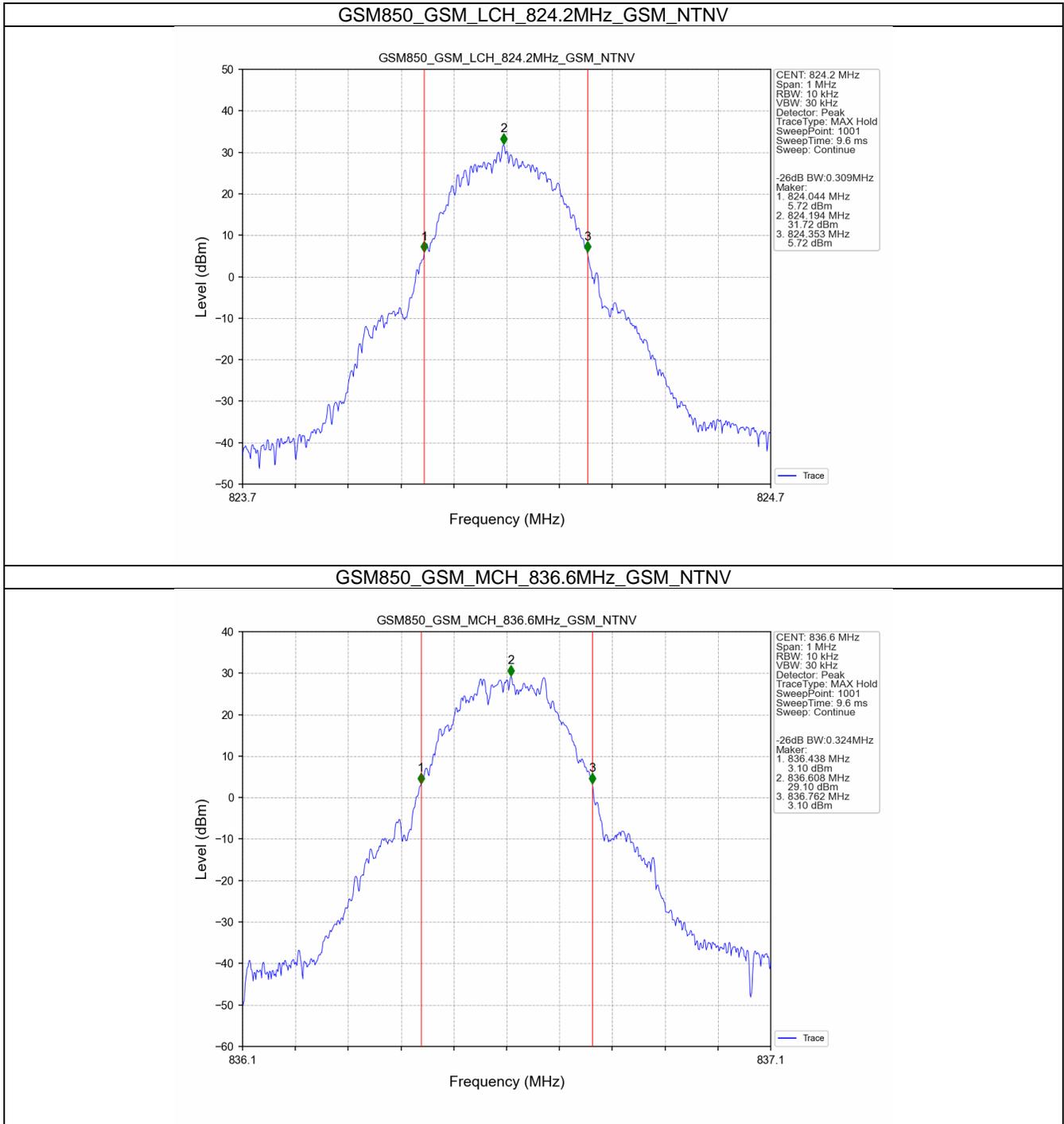
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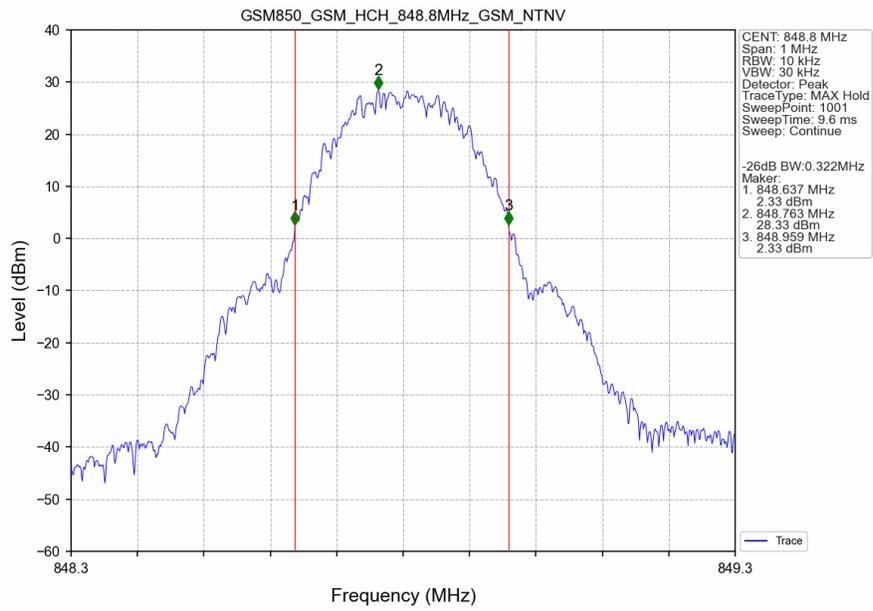
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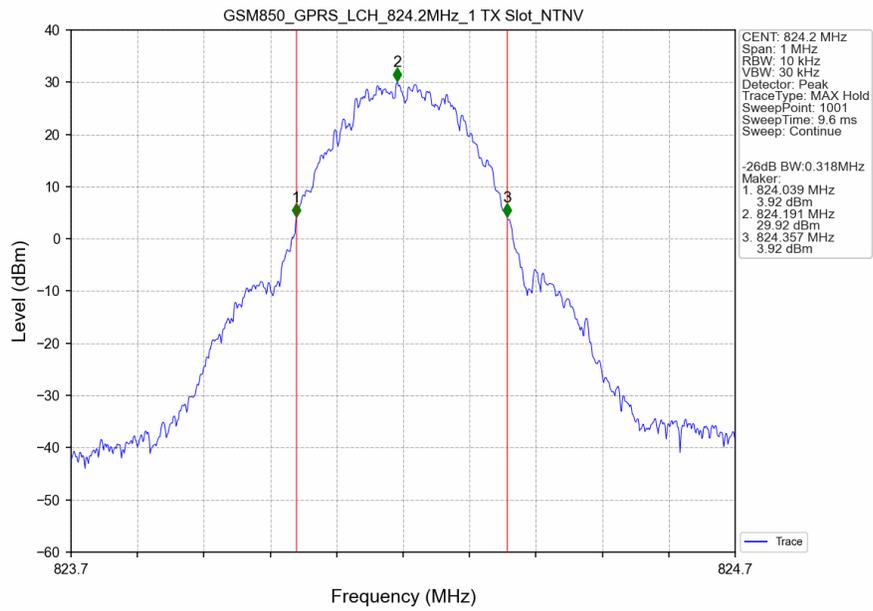
3.2.2 GSM850_XDB



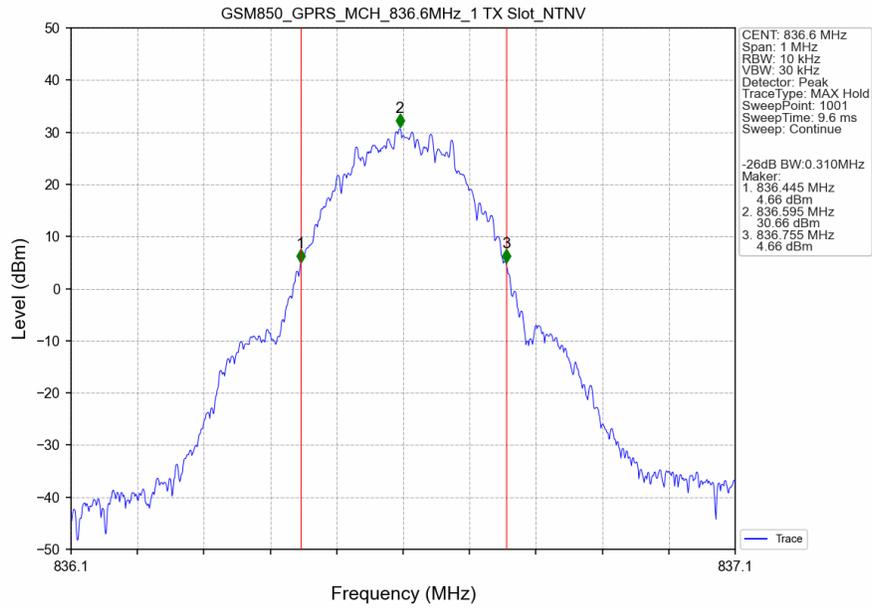
GSM850_GSM_HCH_848.8MHz_GSM_NTNV



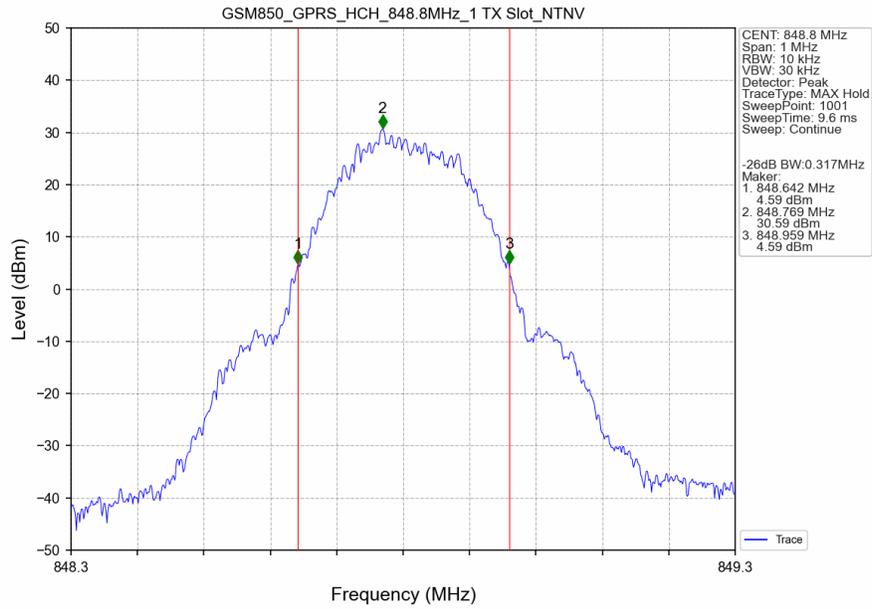
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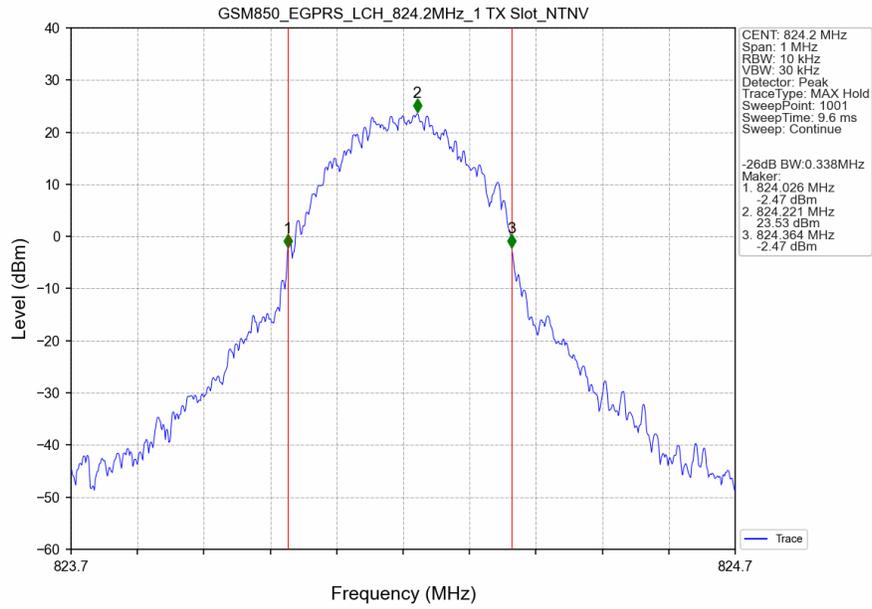
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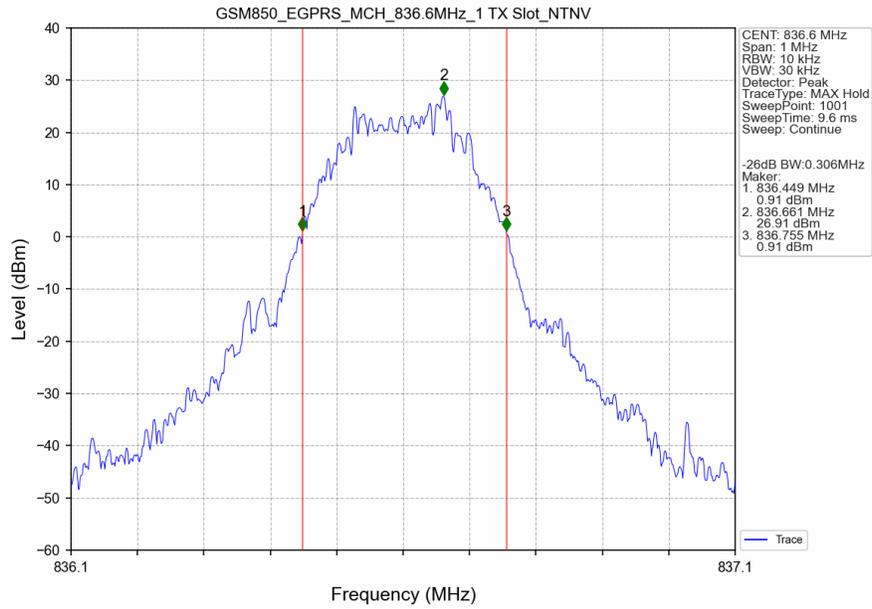
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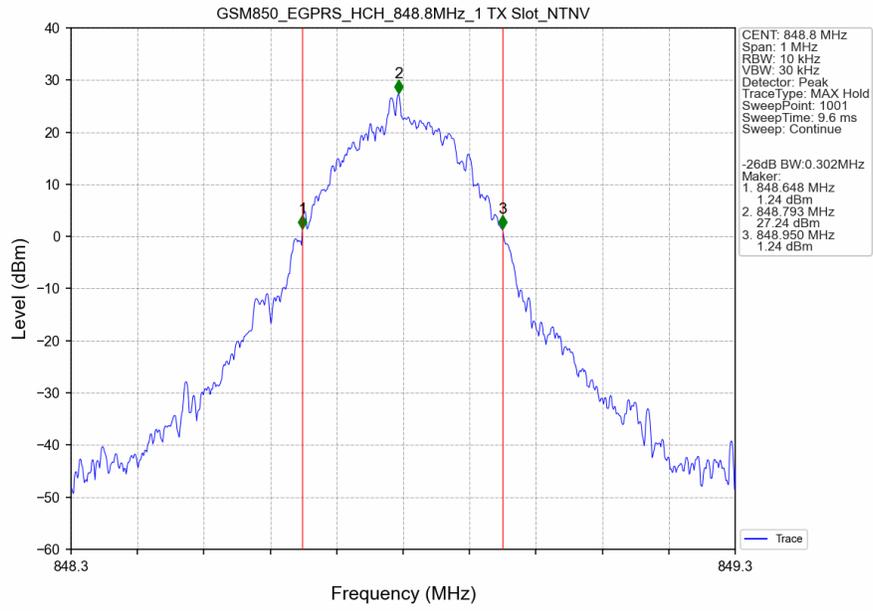
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTV



4. Peak-Average Ratio

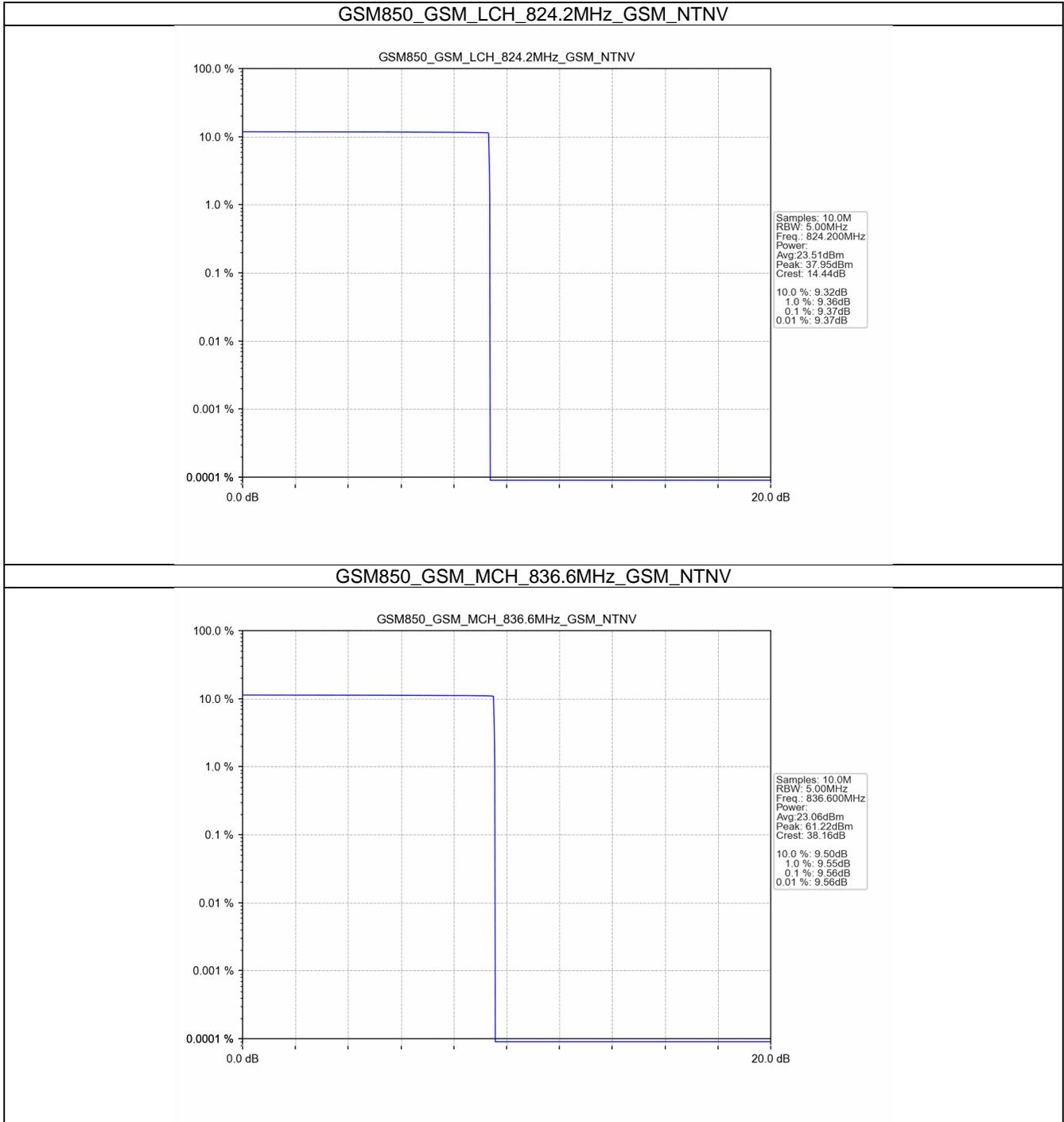
4.1 Test Result

4.1.1 GSM850

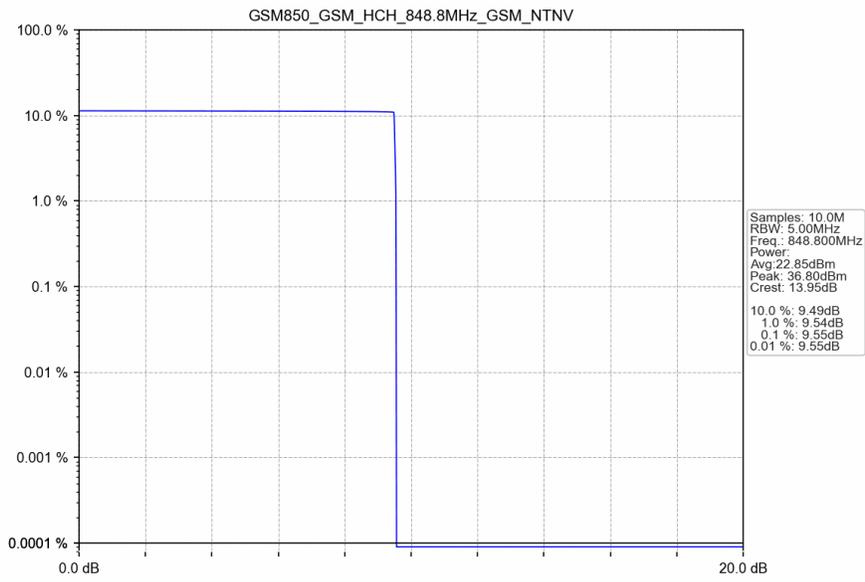
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.37	<=13	Pass
			836.6	9.56	<=13	Pass
			848.8	9.55	<=13	Pass
	GPRS	4 TX Slots	824.2	3.45	<=13	Pass
			836.6	3.49	<=13	Pass
			848.8	3.52	<=13	Pass
	EGPRS	4 TX Slots	824.2	10.25	<=13	Pass
			836.6	10.14	<=13	Pass
			848.8	10.11	<=13	Pass

4.2 Test Graph

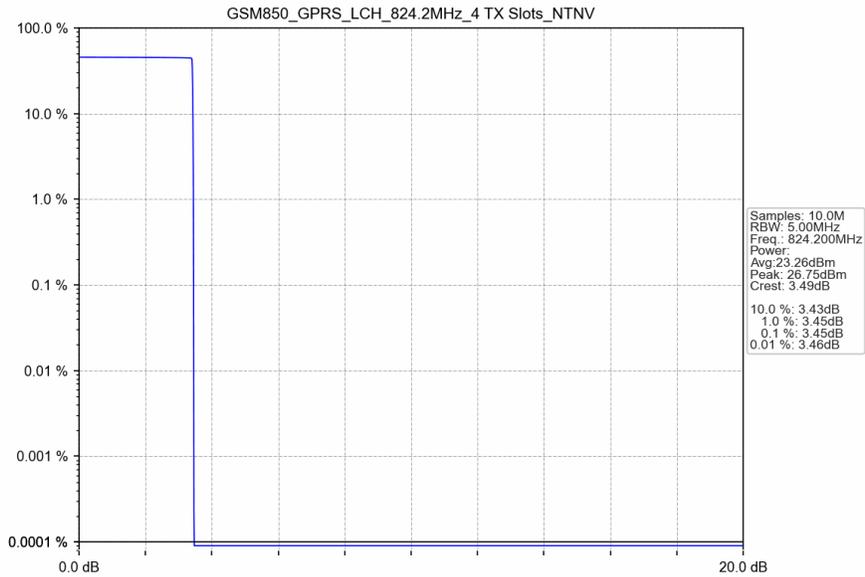
4.2.1 GSM850



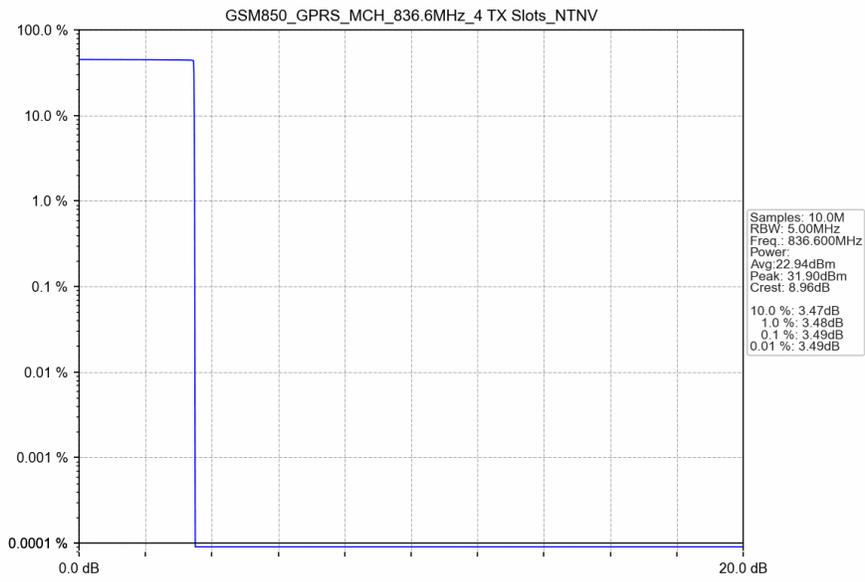
GSM850_GSM_HCH_848.8MHz_GSM_NTNV



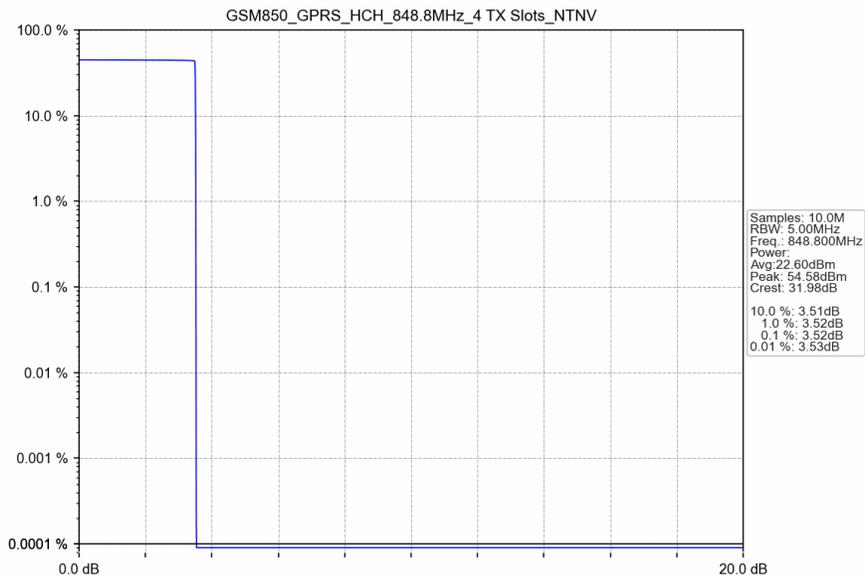
GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



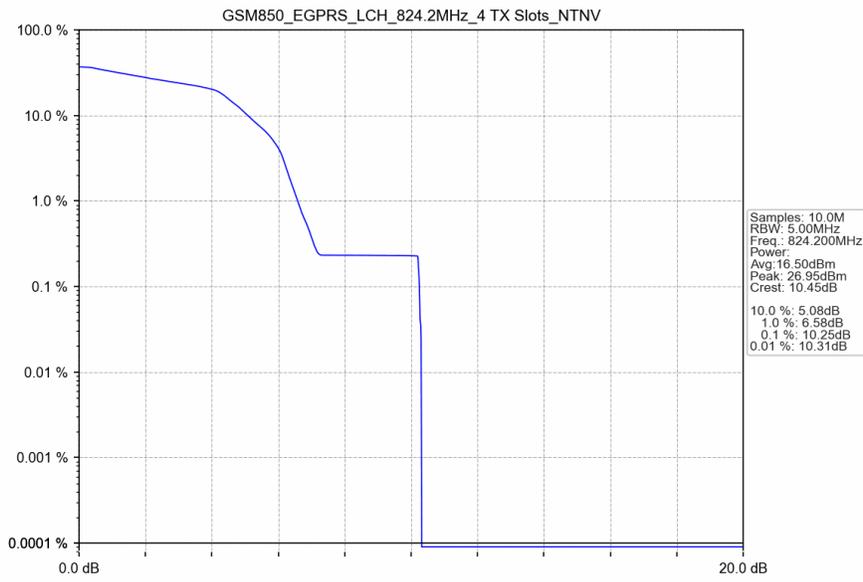
GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



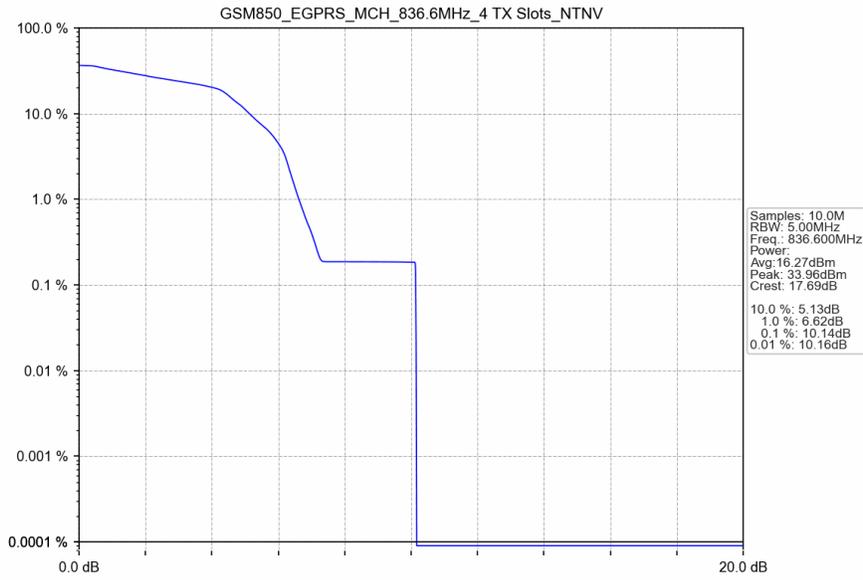
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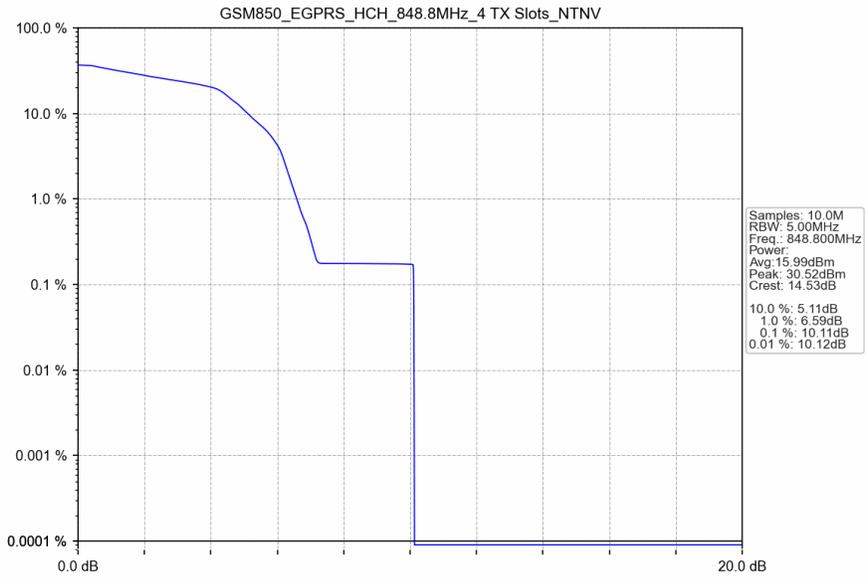
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



5. Spurious Emission

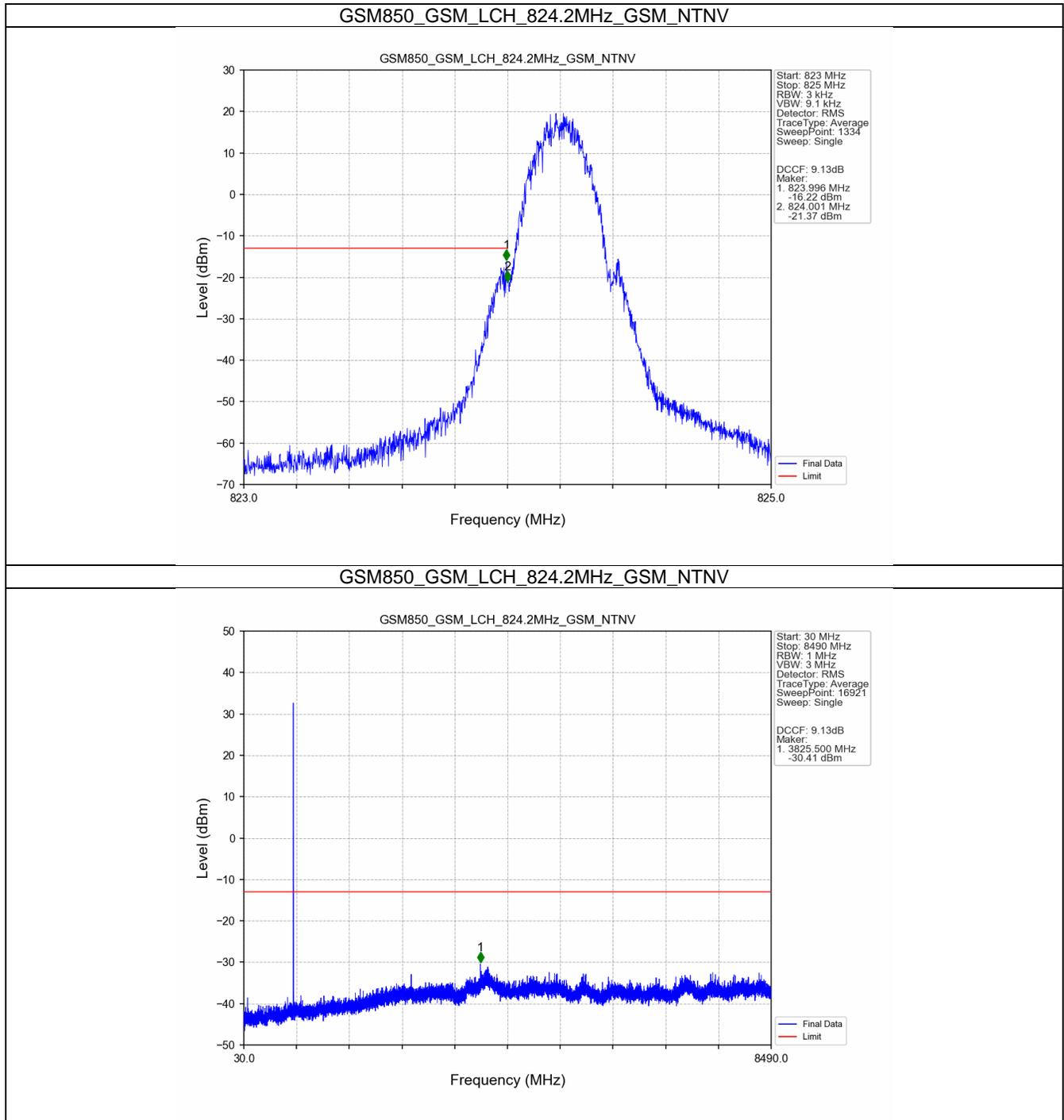
5.1 Test Result

5.1.1 GSM850

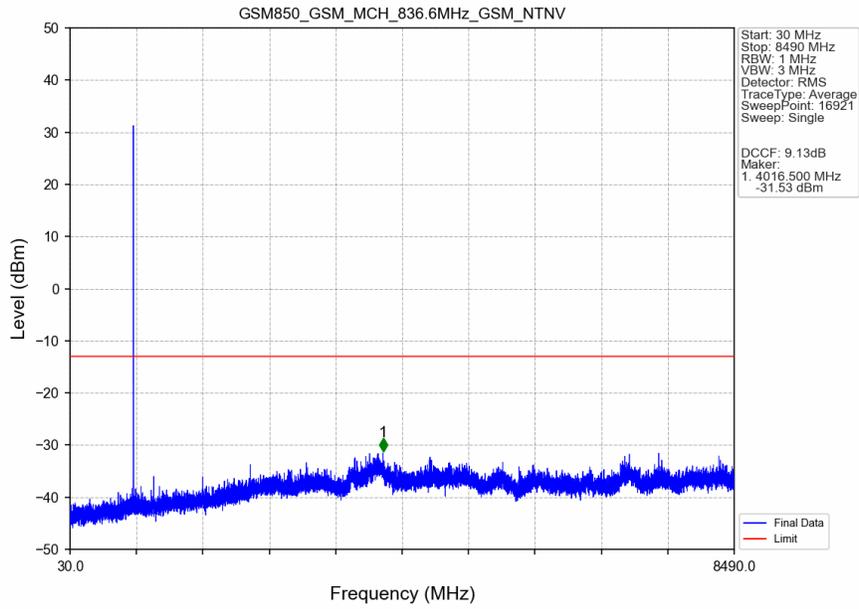
Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			848.8	Refer To Test Graph	Pass	
	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	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

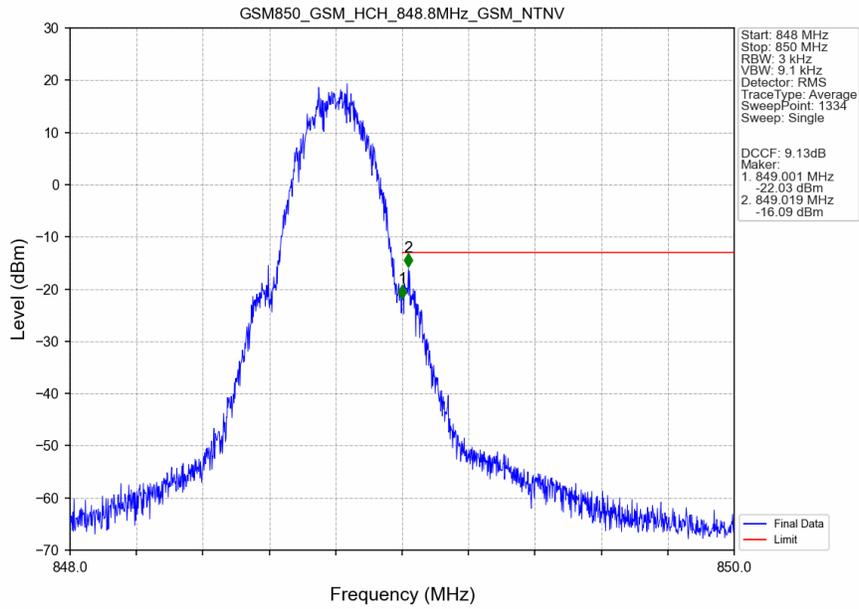
5.2.1 GSM850



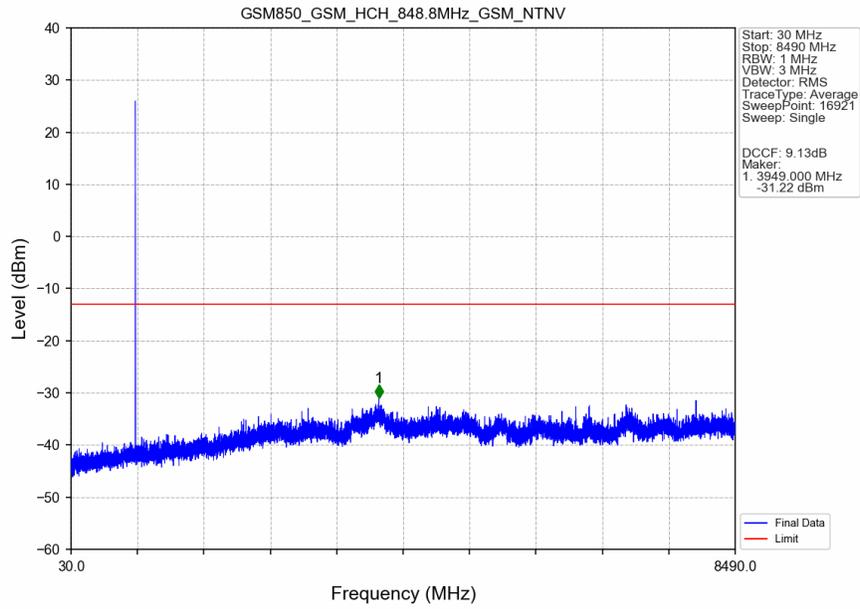
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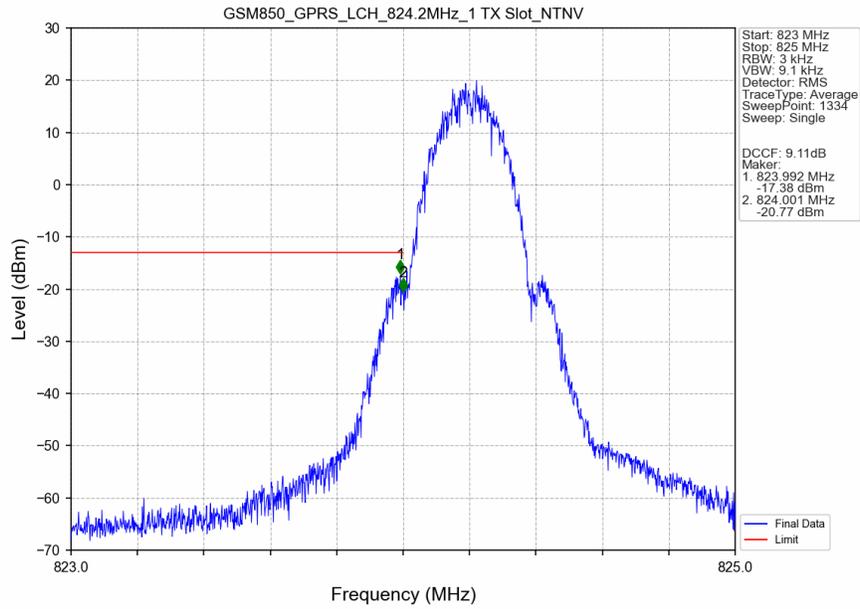
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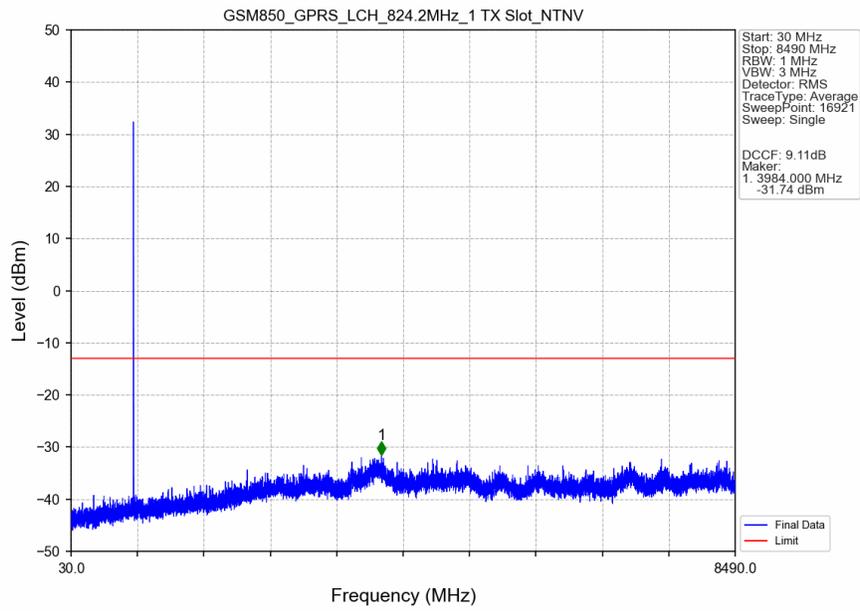
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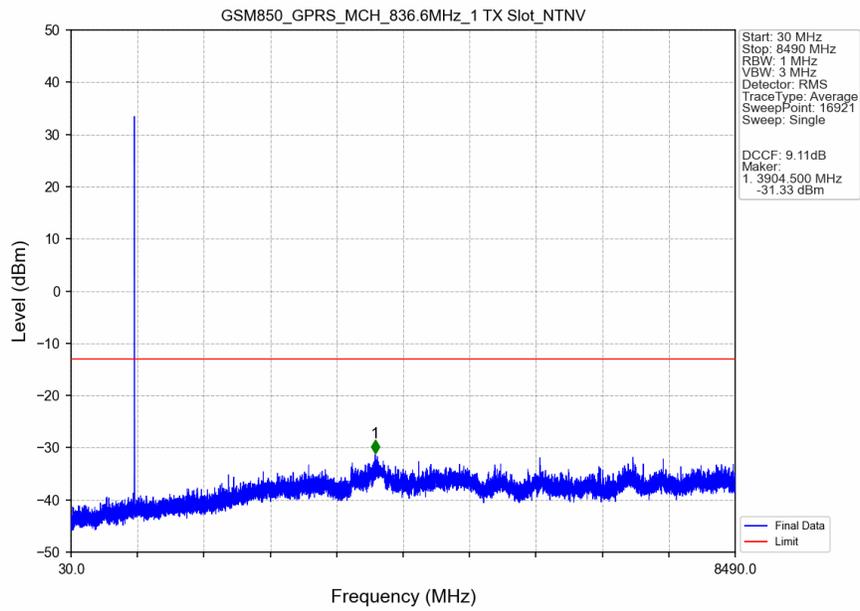
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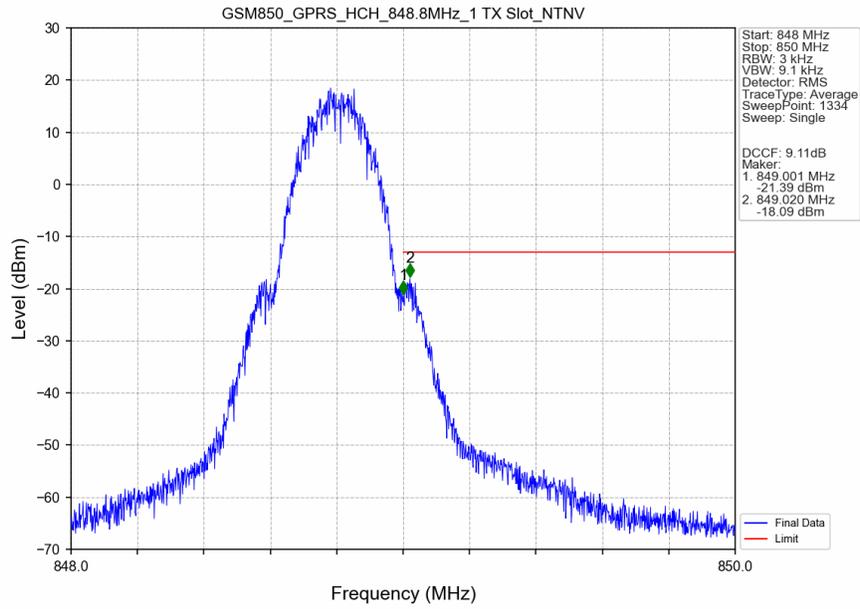
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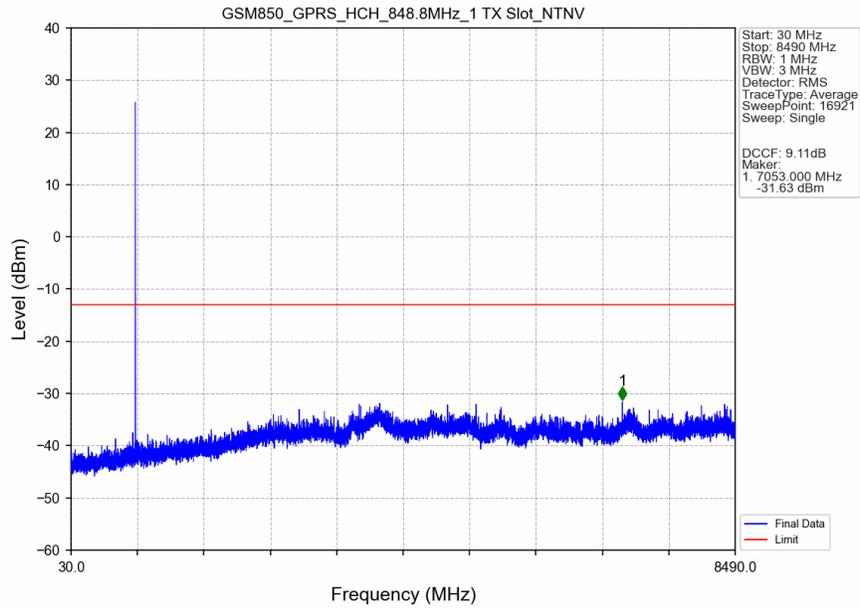
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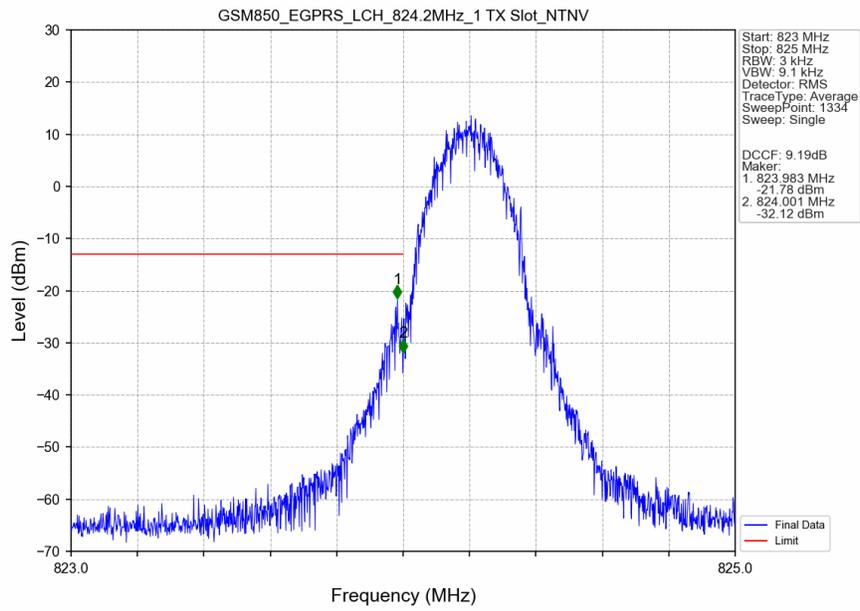
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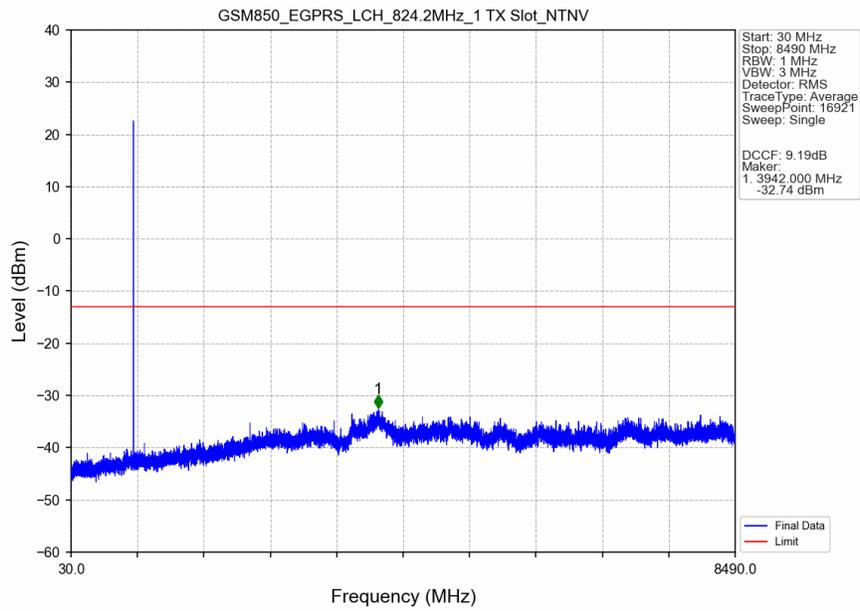
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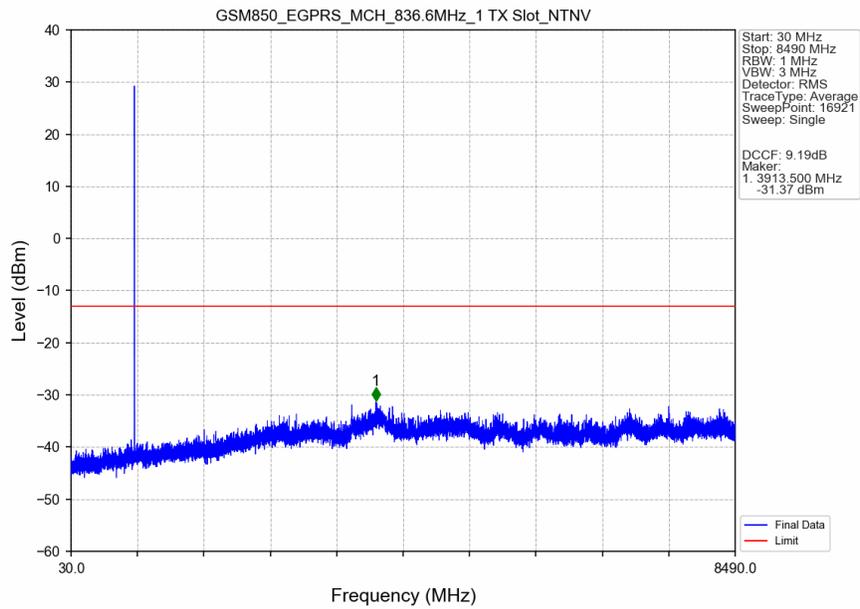
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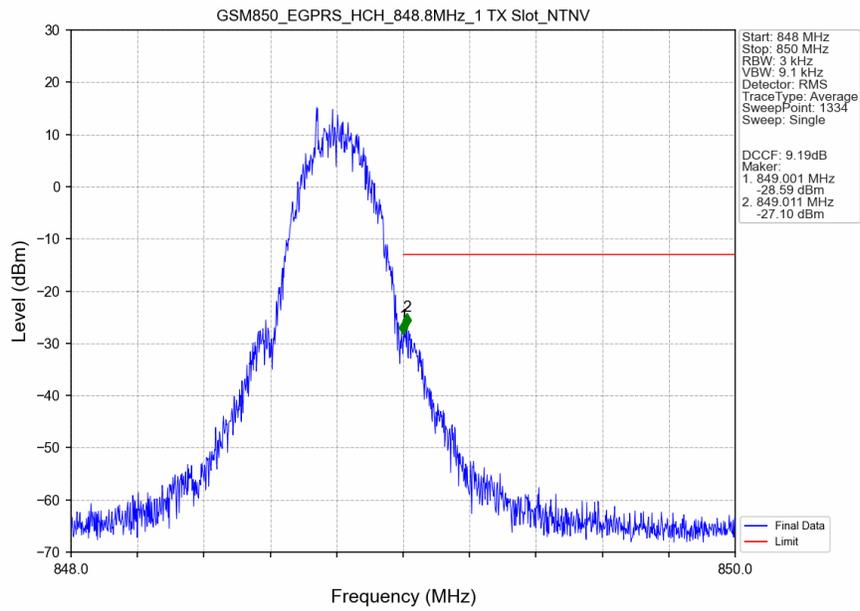
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTV

