

1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 Test Result

Band: GSM850								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	824.2	31.38	-0.71	28.52	<=38.45	Pass
			836.6	31.37	-0.71	28.51	<=38.45	Pass
			848.8	31.29	-0.71	28.43	<=38.45	Pass
	GPRS	1 TX Slot	824.2	31.37	-0.71	28.51	<=38.45	Pass
		2 TX Slots	824.2	29.38	-0.71	26.52	<=38.45	Pass
		3 TX Slots	824.2	27.46	-0.71	24.60	<=38.45	Pass
		4 TX Slots	824.2	25.24	-0.71	22.38	<=38.45	Pass
		1 TX Slot	836.6	31.25	-0.71	28.39	<=38.45	Pass
		2 TX Slots	836.6	29.29	-0.71	26.43	<=38.45	Pass
		3 TX Slots	836.6	27.38	-0.71	24.52	<=38.45	Pass
		4 TX Slots	836.6	25.18	-0.71	22.32	<=38.45	Pass
		1 TX Slot	848.8	31.15	-0.71	28.29	<=38.45	Pass
		2 TX Slots	848.8	29.15	-0.71	26.29	<=38.45	Pass
		3 TX Slots	848.8	27.25	-0.71	24.39	<=38.45	Pass
		4 TX Slots	848.8	25.07	-0.71	22.21	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	24.47	-0.71	21.61	<=38.45	Pass
		2 TX Slots	824.2	24.54	-0.71	21.68	<=38.45	Pass
		3 TX Slots	824.2	23.35	-0.71	20.49	<=38.45	Pass
		4 TX Slots	824.2	20.31	-0.71	17.45	<=38.45	Pass
		1 TX Slot	836.6	24.84	-0.71	21.98	<=38.45	Pass
		2 TX Slots	836.6	26.29	-0.71	23.43	<=38.45	Pass
		3 TX Slots	836.6	23.88	-0.71	21.02	<=38.45	Pass
		4 TX Slots	836.6	20.71	-0.71	17.85	<=38.45	Pass
		1 TX Slot	848.8	24.20	-0.71	21.34	<=38.45	Pass
		2 TX Slots	848.8	24.19	-0.71	21.33	<=38.45	Pass
		3 TX Slots	848.8	24.54	-0.71	21.68	<=38.45	Pass
		4 TX Slots	848.8	19.98	-0.71	17.12	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 GSM850

2.1.1 Test Result

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	824.2	20	3.27	5.327	0.0065	-2.5 to 2.5	Pass
			3.85	-2.647	-0.0032	-2.5 to 2.5	Pass
			4.43	6.909	0.0084	-2.5 to 2.5	Pass

	836.6	-30	3.85	-3.519	-0.0043	-2.5 to 2.5	Pass	
		-20	3.85	6.619	0.0080	-2.5 to 2.5	Pass	
		-10	3.85	-10.428	-0.0127	-2.5 to 2.5	Pass	
		0	3.85	-7.426	-0.0090	-2.5 to 2.5	Pass	
		10	3.85	-5.747	-0.0070	-2.5 to 2.5	Pass	
		30	3.85	-11.623	-0.0141	-2.5 to 2.5	Pass	
		40	3.85	-1.873	-0.0023	-2.5 to 2.5	Pass	
		50	3.85	-13.818	-0.0168	-2.5 to 2.5	Pass	
		848.8	20	3.27	2.099	0.0025	-2.5 to 2.5	Pass
				3.85	-9.266	-0.0111	-2.5 to 2.5	Pass
				4.43	2.680	0.0032	-2.5 to 2.5	Pass
			-30	3.85	-2.518	-0.0030	-2.5 to 2.5	Pass
			-20	3.85	-5.392	-0.0064	-2.5 to 2.5	Pass
			-10	3.85	-0.420	-0.0005	-2.5 to 2.5	Pass
	0		3.85	-7.006	-0.0084	-2.5 to 2.5	Pass	
	10		3.85	-0.323	-0.0004	-2.5 to 2.5	Pass	
	30		3.85	4.811	0.0058	-2.5 to 2.5	Pass	
	40		3.85	-4.714	-0.0056	-2.5 to 2.5	Pass	
	50		3.85	1.873	0.0022	-2.5 to 2.5	Pass	
	848.8		20	3.27	-8.071	-0.0095	-2.5 to 2.5	Pass
		3.85		-3.907	-0.0046	-2.5 to 2.5	Pass	
		4.43		-9.879	-0.0116	-2.5 to 2.5	Pass	
		-30	3.85	-6.231	-0.0073	-2.5 to 2.5	Pass	
		-20	3.85	-0.161	-0.0002	-2.5 to 2.5	Pass	
		-10	3.85	-6.393	-0.0075	-2.5 to 2.5	Pass	
		0	3.85	-11.203	-0.0132	-2.5 to 2.5	Pass	
		10	3.85	-11.139	-0.0131	-2.5 to 2.5	Pass	
		30	3.85	-15.885	-0.0187	-2.5 to 2.5	Pass	
		40	3.85	-4.068	-0.0048	-2.5 to 2.5	Pass	
		50	3.85	-14.206	-0.0167	-2.5 to 2.5	Pass	

GPRS	824.2	20	3.27	5.295	0.0064	-2.5 to 2.5	Pass
			3.85	2.034	0.0025	-2.5 to 2.5	Pass
			4.43	9.686	0.0118	-2.5 to 2.5	Pass
		-30	3.85	6.328	0.0077	-2.5 to 2.5	Pass
		-20	3.85	8.201	0.0100	-2.5 to 2.5	Pass
		-10	3.85	0.226	0.0003	-2.5 to 2.5	Pass
		0	3.85	1.356	0.0016	-2.5 to 2.5	Pass
		10	3.85	4.262	0.0052	-2.5 to 2.5	Pass
		30	3.85	-0.807	-0.0010	-2.5 to 2.5	Pass
		40	3.85	1.550	0.0019	-2.5 to 2.5	Pass
		50	3.85	1.033	0.0013	-2.5 to 2.5	Pass
		836.6	20	3.27	3.035	0.0036	-2.5 to 2.5
	3.85			8.233	0.0098	-2.5 to 2.5	Pass
	4.43			-1.679	-0.0020	-2.5 to 2.5	Pass
	-30		3.85	-0.194	-0.0002	-2.5 to 2.5	Pass
	-20		3.85	5.263	0.0063	-2.5 to 2.5	Pass
	-10		3.85	0.161	0.0002	-2.5 to 2.5	Pass
	0		3.85	6.167	0.0074	-2.5 to 2.5	Pass
	10		3.85	3.390	0.0041	-2.5 to 2.5	Pass
	30		3.85	3.325	0.0040	-2.5 to 2.5	Pass
	40		3.85	1.582	0.0019	-2.5 to 2.5	Pass
	50		3.85	0.355	0.0004	-2.5 to 2.5	Pass
	848.8		20	3.27	2.744	0.0032	-2.5 to 2.5
		3.85		2.938	0.0035	-2.5 to 2.5	Pass
		4.43		7.038	0.0083	-2.5 to 2.5	Pass
		-30	3.85	7.813	0.0092	-2.5 to 2.5	Pass
		-20	3.85	7.135	0.0084	-2.5 to 2.5	Pass

		-10	3.85	7.264	0.0086	-2.5 to 2.5	Pass
		0	3.85	3.229	0.0038	-2.5 to 2.5	Pass
		10	3.85	5.973	0.0070	-2.5 to 2.5	Pass
		30	3.85	0.291	0.0003	-2.5 to 2.5	Pass
		40	3.85	9.589	0.0113	-2.5 to 2.5	Pass
		50	3.85	1.550	0.0018	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.27	5.166	0.0063	-2.5 to 2.5	Pass
			3.85	4.391	0.0053	-2.5 to 2.5	Pass
			4.43	2.841	0.0034	-2.5 to 2.5	Pass
		-30	3.85	3.196	0.0039	-2.5 to 2.5	Pass
		-20	3.85	0.387	0.0005	-2.5 to 2.5	Pass
		-10	3.85	5.456	0.0066	-2.5 to 2.5	Pass
		0	3.85	2.486	0.0030	-2.5 to 2.5	Pass
		10	3.85	6.489	0.0079	-2.5 to 2.5	Pass
		30	3.85	-6.102	-0.0074	-2.5 to 2.5	Pass
		40	3.85	2.292	0.0028	-2.5 to 2.5	Pass
		50	3.85	-0.291	-0.0004	-2.5 to 2.5	Pass
	836.6	20	3.27	3.099	0.0037	-2.5 to 2.5	Pass
			3.85	2.809	0.0034	-2.5 to 2.5	Pass
			4.43	7.038	0.0084	-2.5 to 2.5	Pass
		-30	3.85	2.034	0.0024	-2.5 to 2.5	Pass
		-20	3.85	3.842	0.0046	-2.5 to 2.5	Pass
		-10	3.85	1.743	0.0021	-2.5 to 2.5	Pass
		0	3.85	3.293	0.0039	-2.5 to 2.5	Pass
		10	3.85	1.162	0.0014	-2.5 to 2.5	Pass
		30	3.85	-0.258	-0.0003	-2.5 to 2.5	Pass
		40	3.85	1.227	0.0015	-2.5 to 2.5	Pass
		50	3.85	-2.906	-0.0035	-2.5 to 2.5	Pass
	848.8	20	3.27	-0.839	-0.0010	-2.5 to 2.5	Pass
			3.85	4.165	0.0049	-2.5 to 2.5	Pass
			4.43	-0.549	-0.0006	-2.5 to 2.5	Pass
		-30	3.85	-1.227	-0.0014	-2.5 to 2.5	Pass
		-20	3.85	4.262	0.0050	-2.5 to 2.5	Pass
		-10	3.85	4.875	0.0057	-2.5 to 2.5	Pass
		0	3.85	4.778	0.0056	-2.5 to 2.5	Pass
		10	3.85	13.431	0.0158	-2.5 to 2.5	Pass
		30	3.85	0.323	0.0004	-2.5 to 2.5	Pass
		40	3.85	10.138	0.0119	-2.5 to 2.5	Pass
		50	3.85	11.009	0.0130	-2.5 to 2.5	Pass

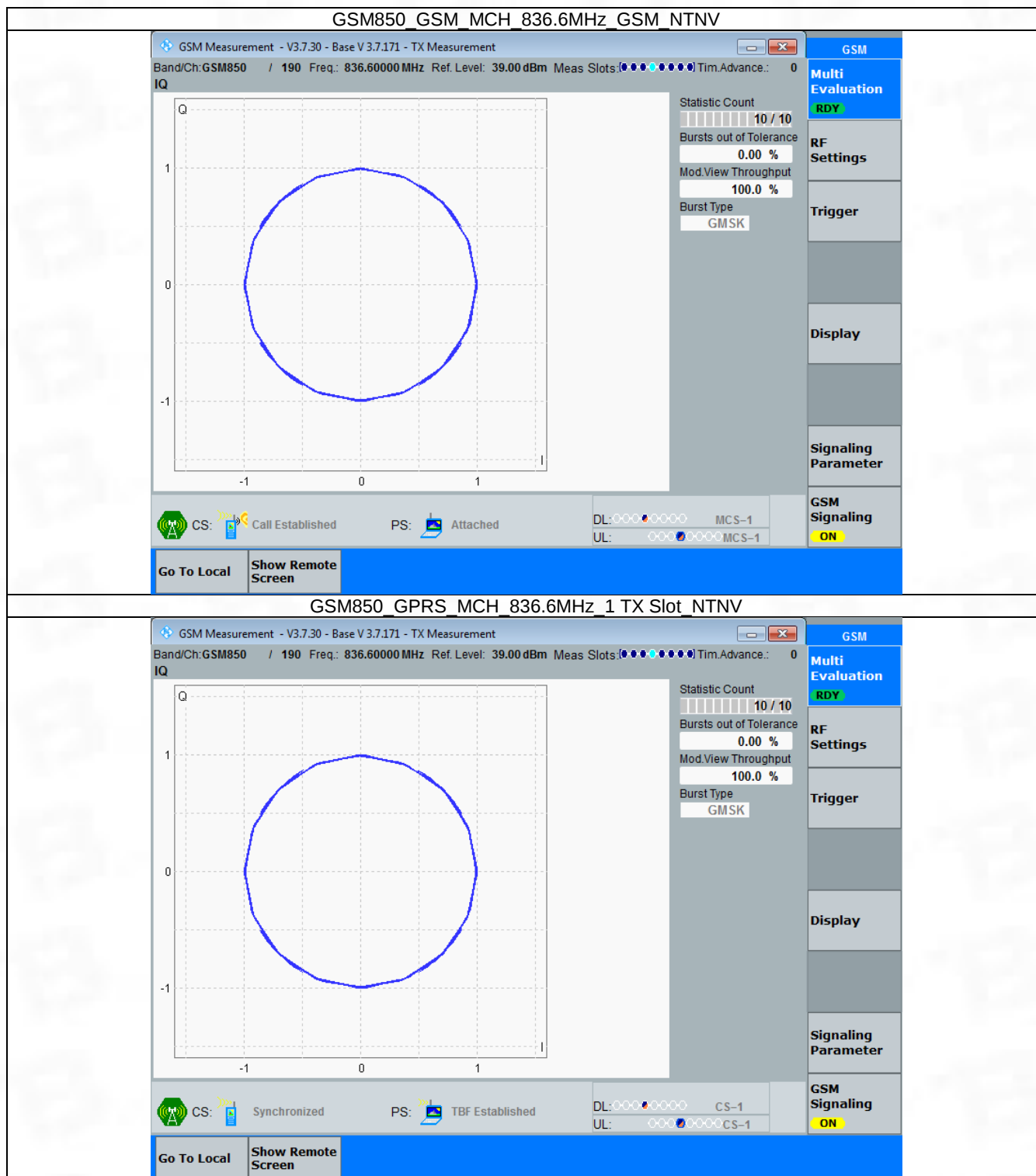
3. Modulation Characteristics

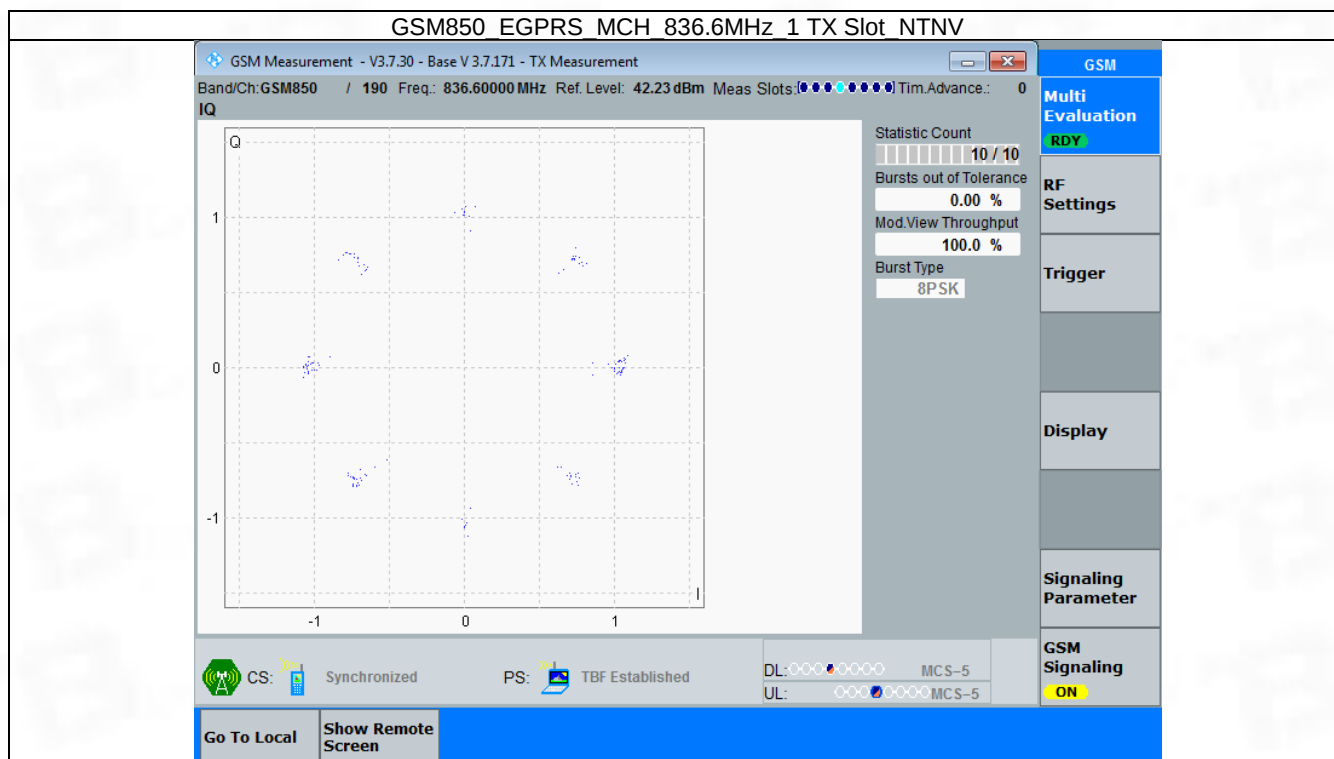
3.1 GSM850

3.1.1 Test Result

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

3.1.2 Test Graph





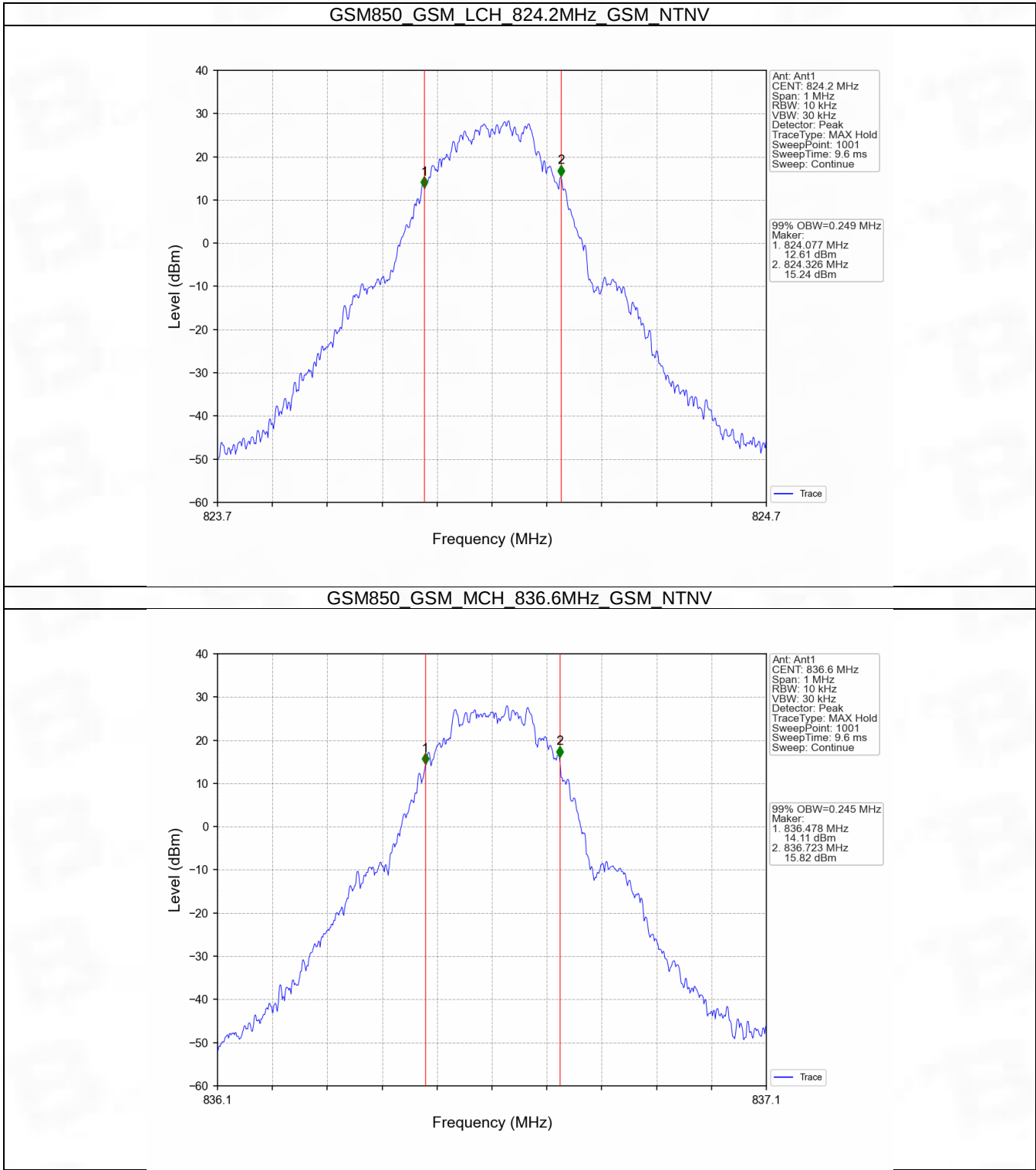
4. 99% & 26dB Bandwidth

4.1 GSM850_OBW

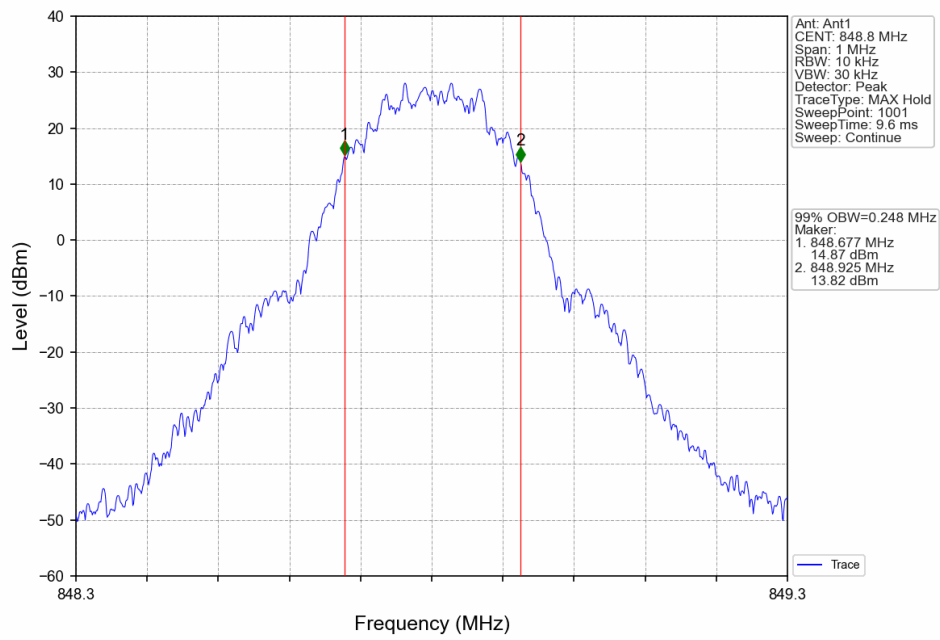
4.1.1 Test Result

Band: GSM850					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	824.2	0.249	Pass
			836.6	0.245	Pass
			848.8	0.248	Pass
	GPRS	1 TX Slot	824.2	0.253	Pass
			836.6	0.251	Pass
			848.8	0.248	Pass
	EGPRS	1 TX Slot	824.2	0.255	Pass
			836.6	0.240	Pass
			848.8	0.245	Pass

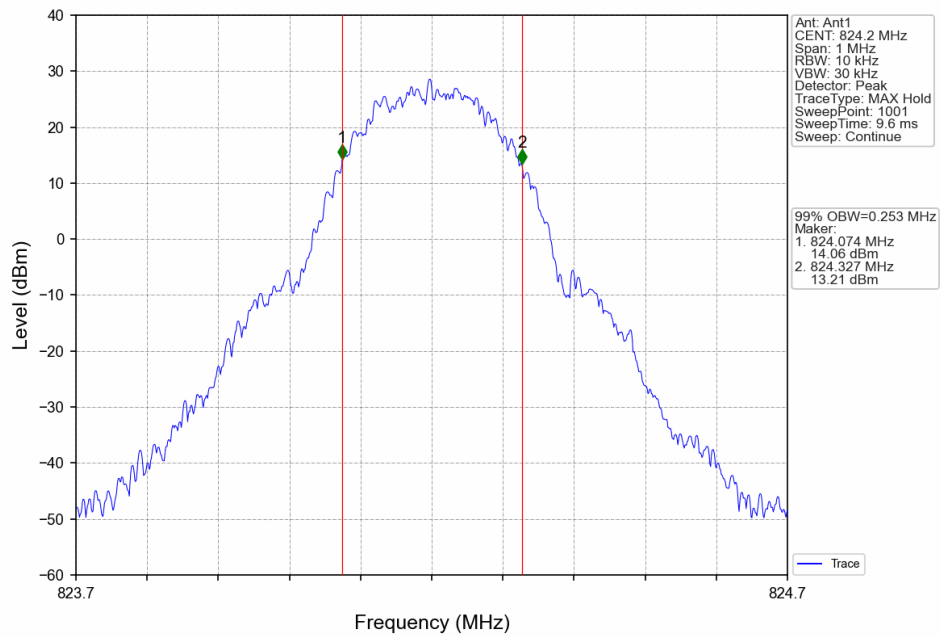
4.1.2 Test Graph



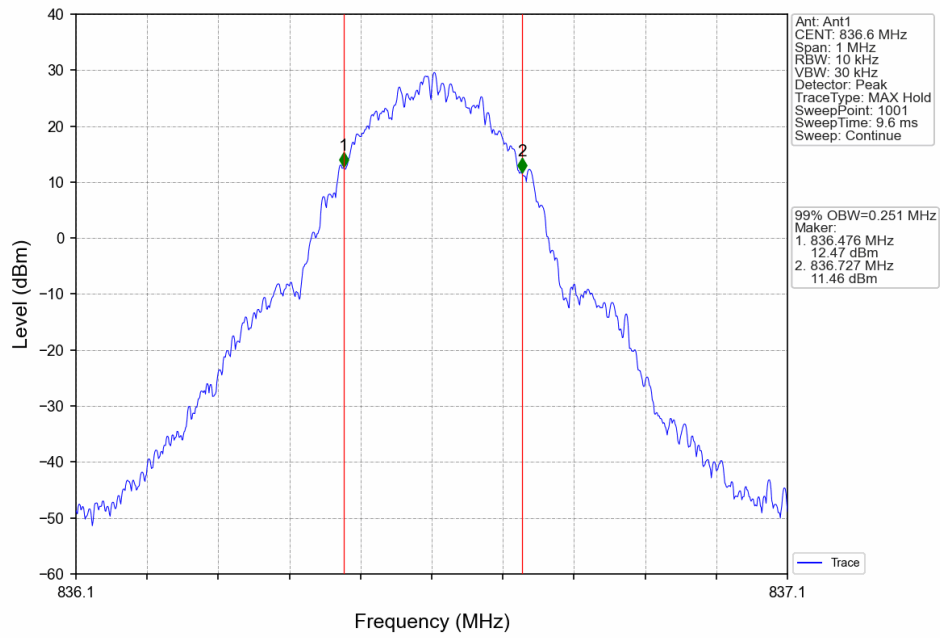
GSM850 GSM HCH 848.8MHz GSM_NTNV



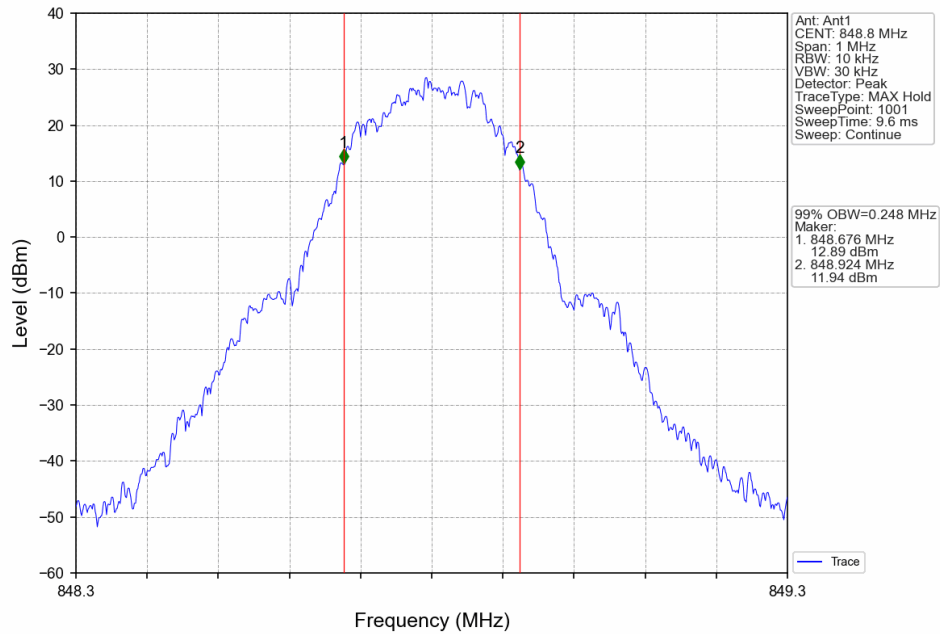
GSM850 GPRS LCH 824.2MHz 1 TX Slot NTN



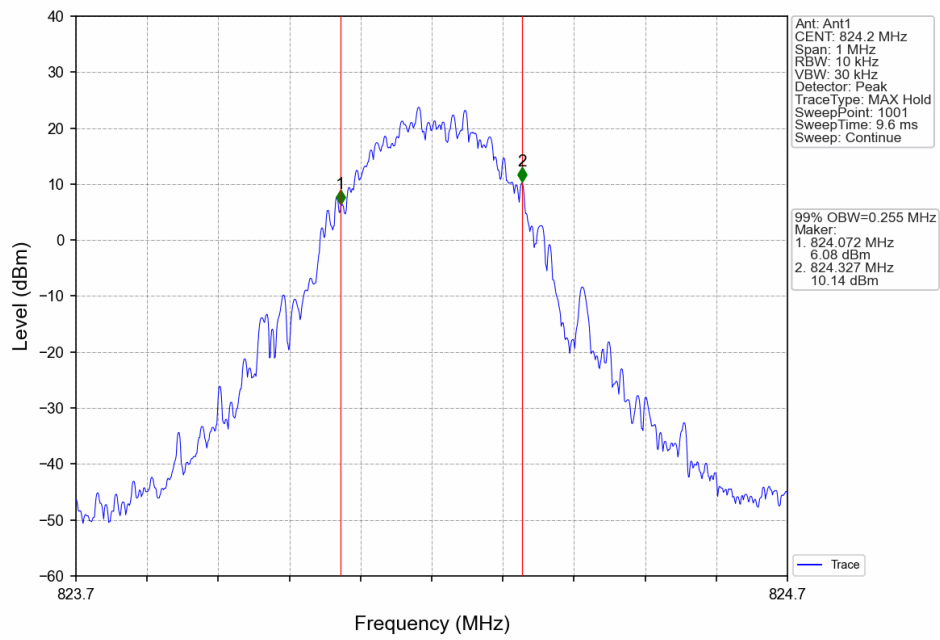
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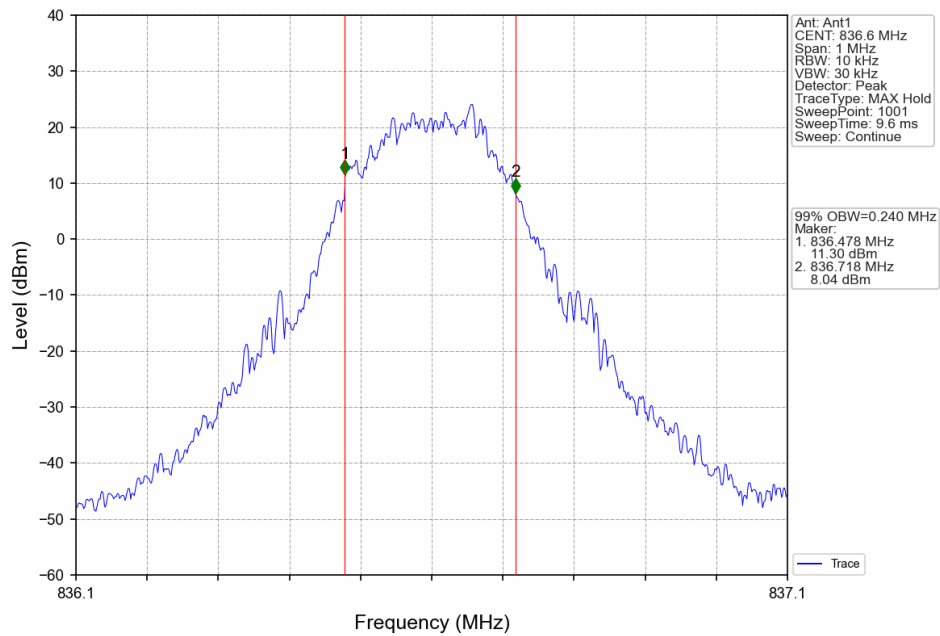
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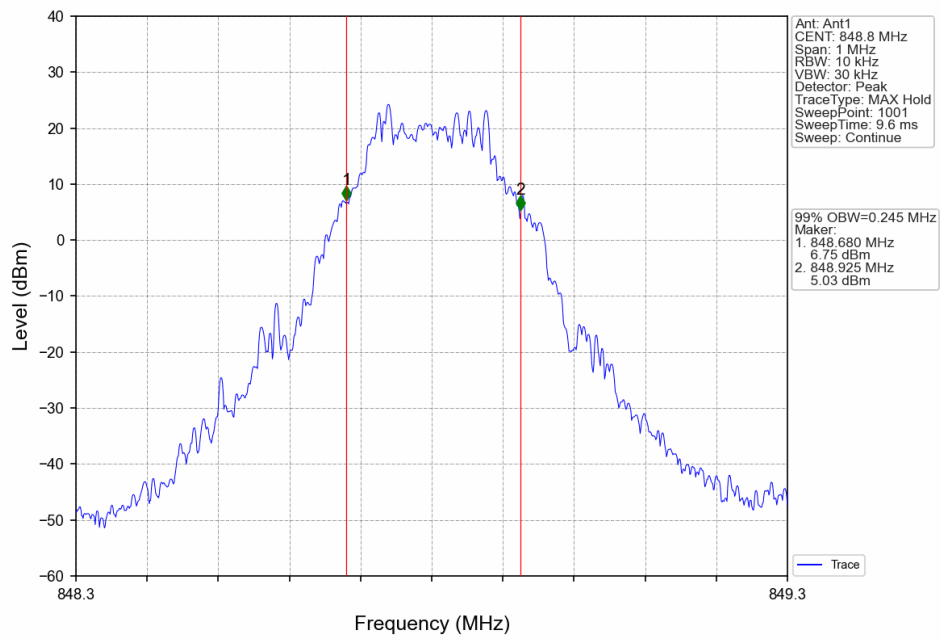
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTVN

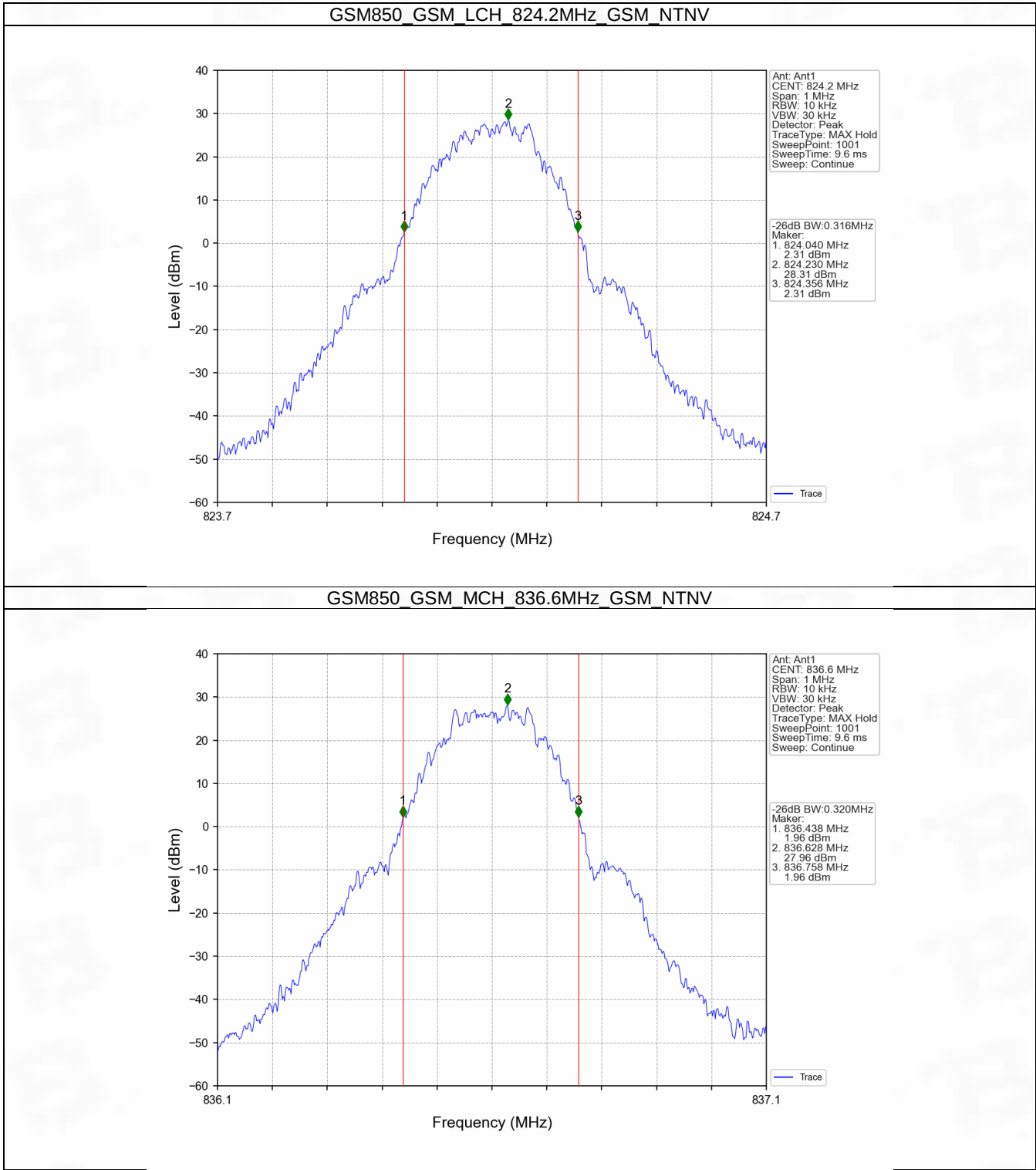


4.2 GSM850_XDB

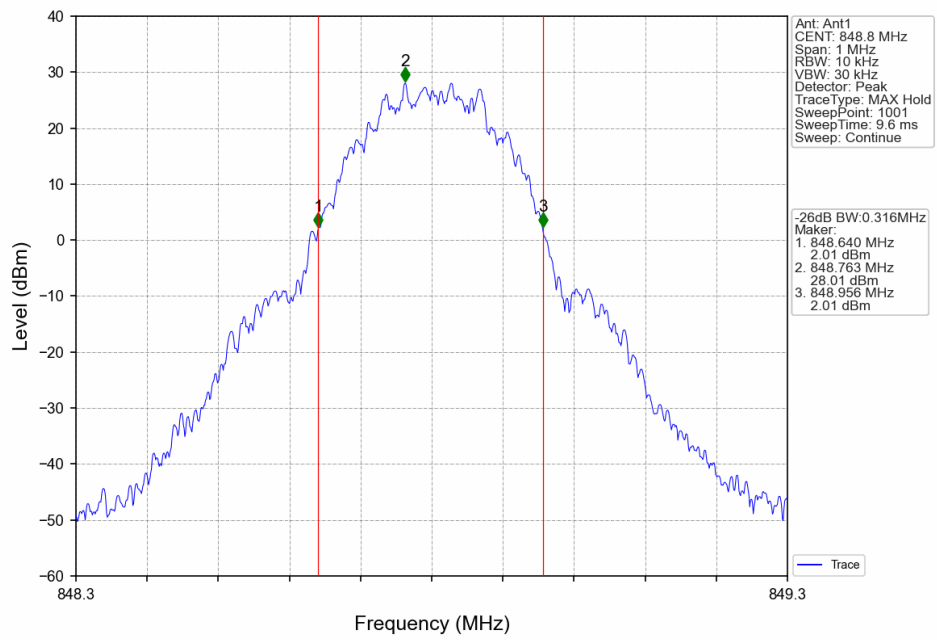
4.2.1 Test Result

Band: GSM850					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	824.2	0.316	Pass
			836.6	0.320	Pass
			848.8	0.316	Pass
	GPRS	1 TX Slot	824.2	0.323	Pass
			836.6	0.316	Pass
			848.8	0.320	Pass
	EGPRS	1 TX Slot	824.2	0.326	Pass
			836.6	0.313	Pass
			848.8	0.311	Pass

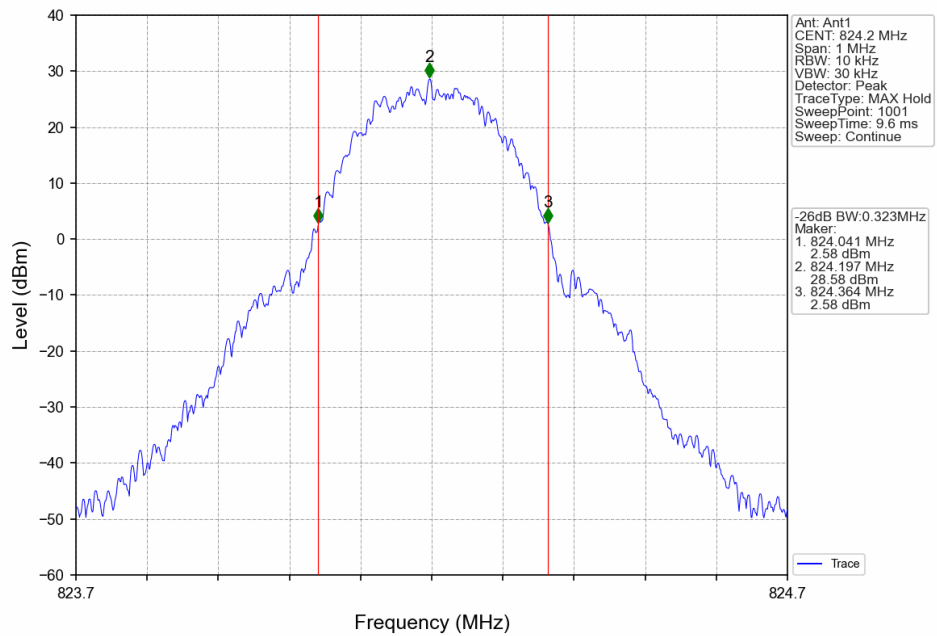
4.2.2 Test Graph



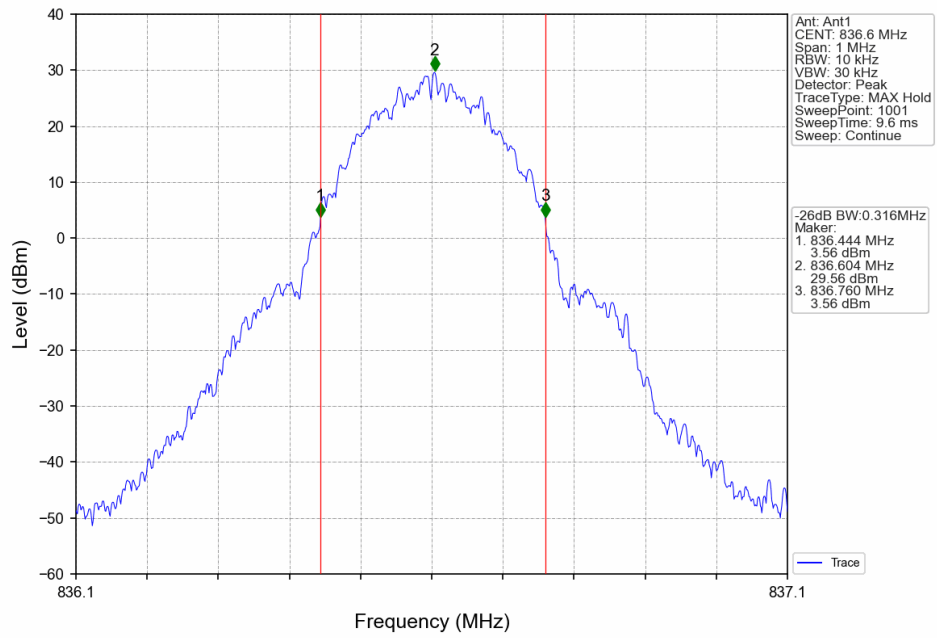
GSM850 GSM_HCH_848.8MHz GSM_NTNV



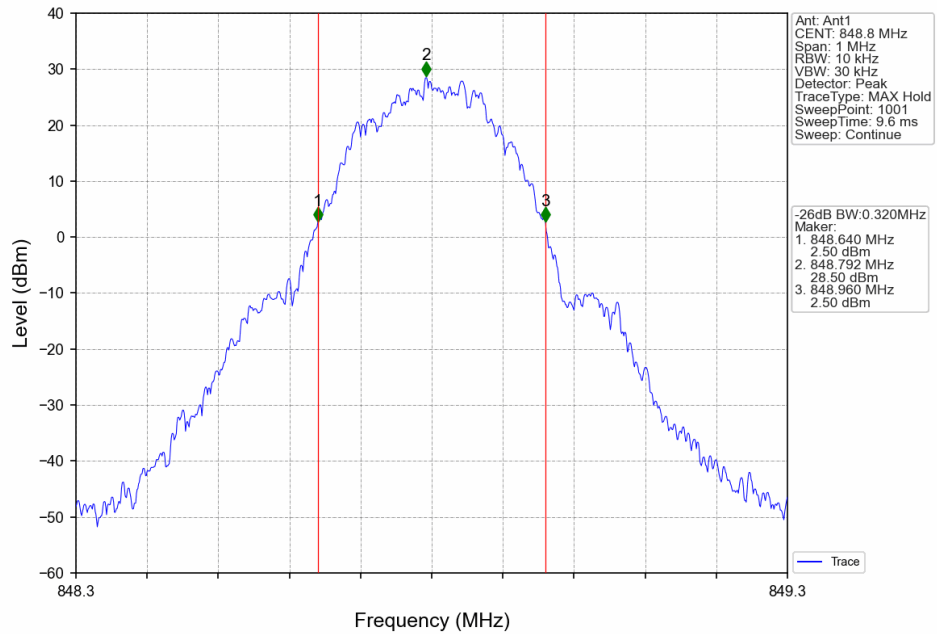
GSM850 GPRS_LCH_824.2MHz 1 TX Slot NTN



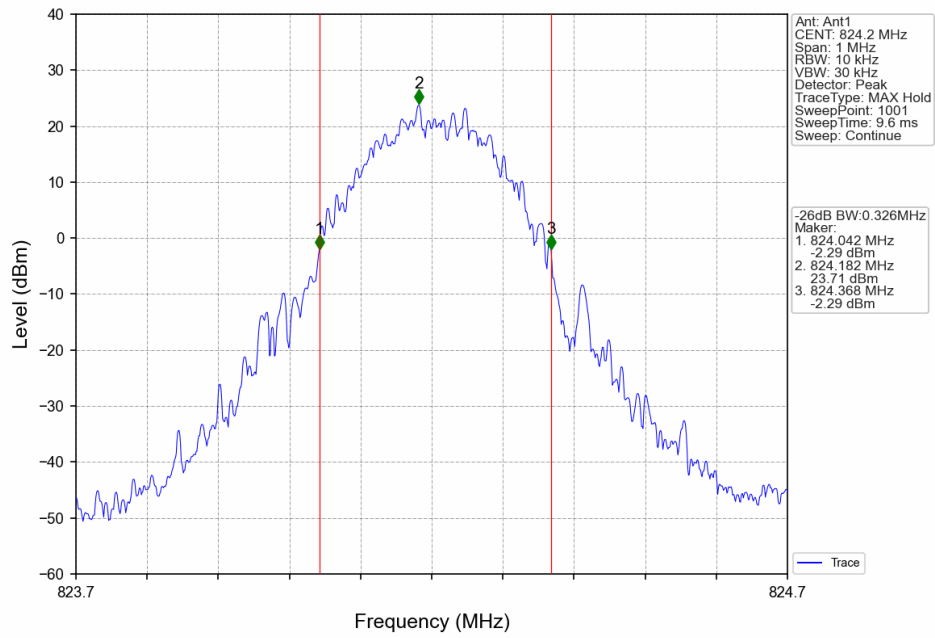
GSM850_GPRS_MCH_836.6MHz_1_TX_Slot_NTNV



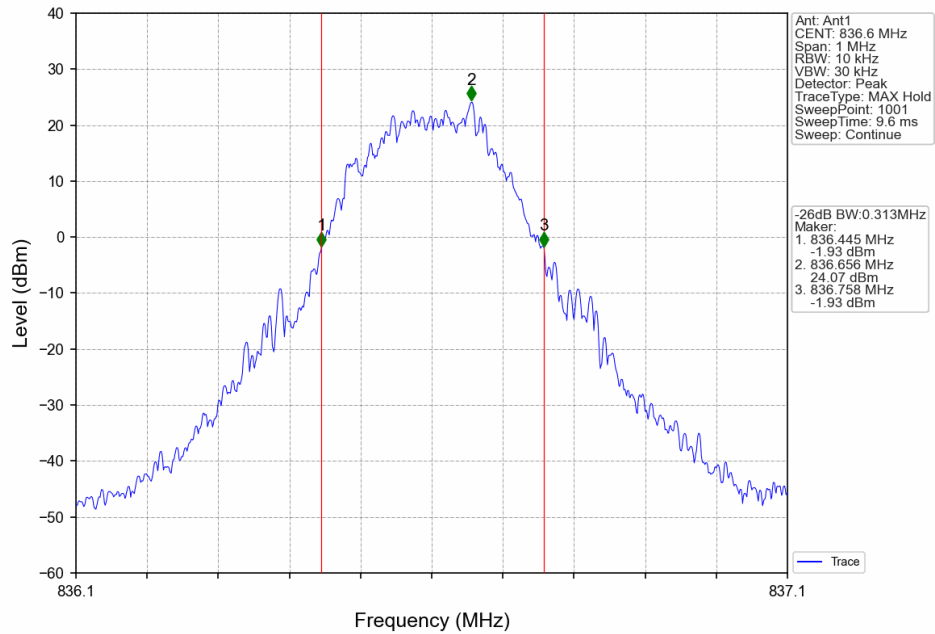
GSM850_GPRS_HCH_848.8MHz_1_TX_Slot_NTNV



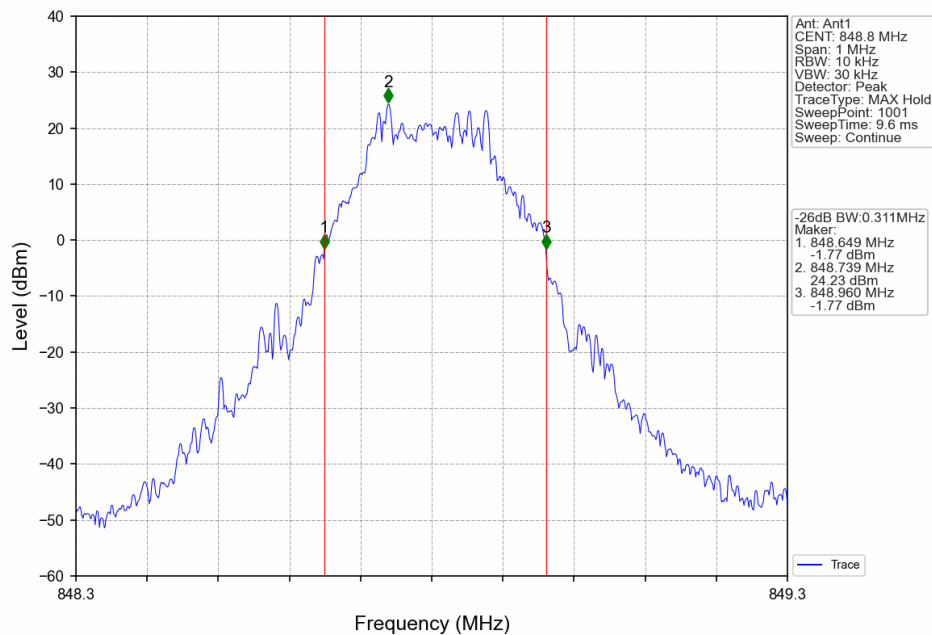
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTV



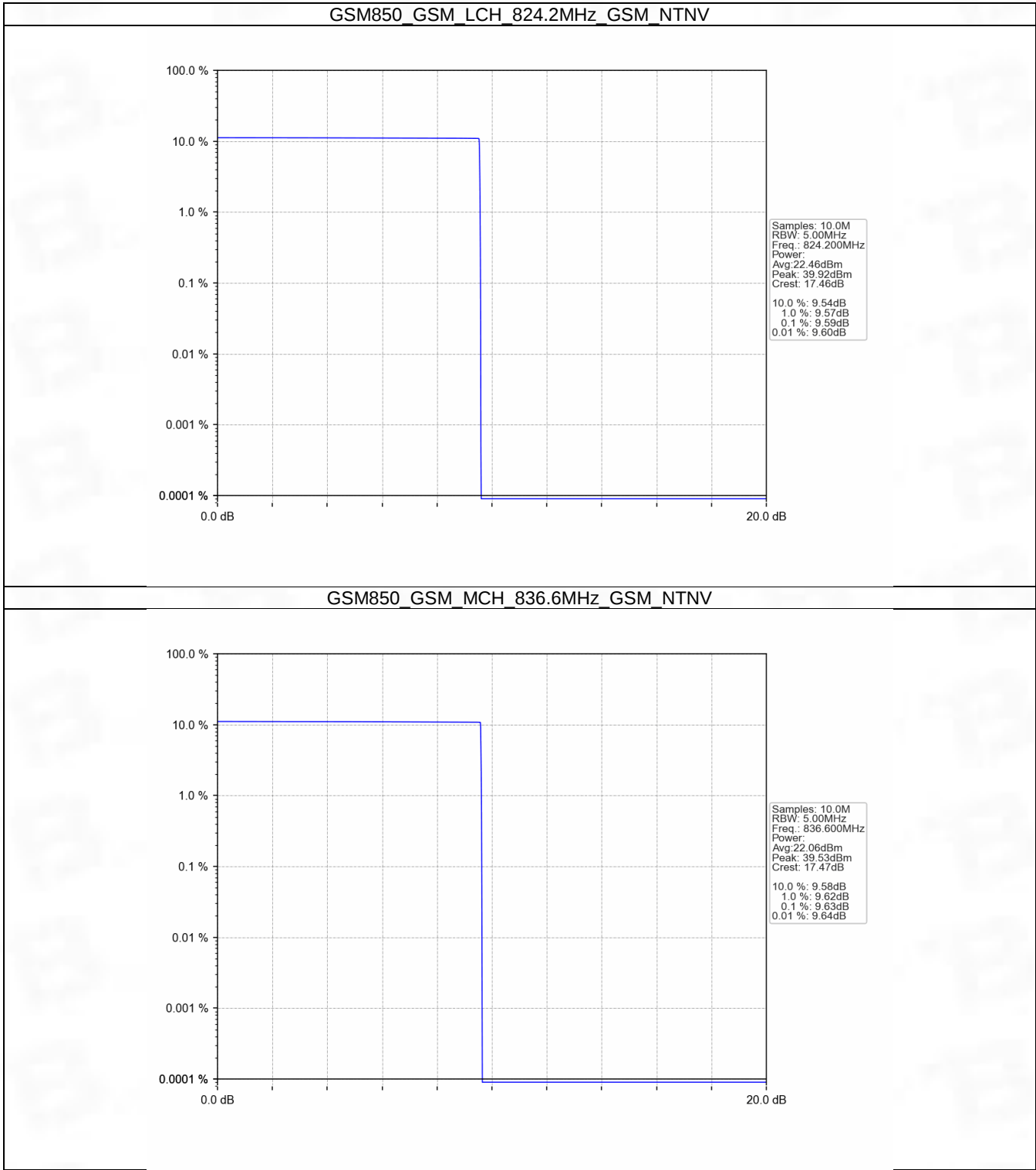
5. Peak-Average Ratio

5.1 GSM850

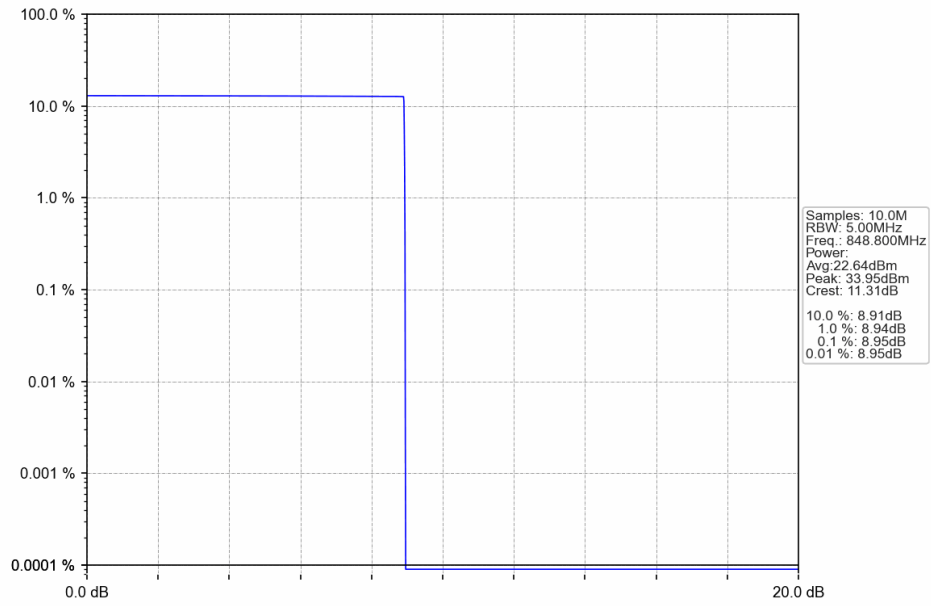
5.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.59	<=13	Pass
			836.6	9.63	<=13	Pass
			848.8	8.95	<=13	Pass
	GPRS	4 TX Slots	824.2	10.05	<=13	Pass
			836.6	3.69	<=13	Pass
			848.8	3.57	<=13	Pass
	EGPRS	4 TX Slots	824.2	6.44	<=13	Pass
			836.6	6.48	<=13	Pass
			848.8	6.37	<=13	Pass

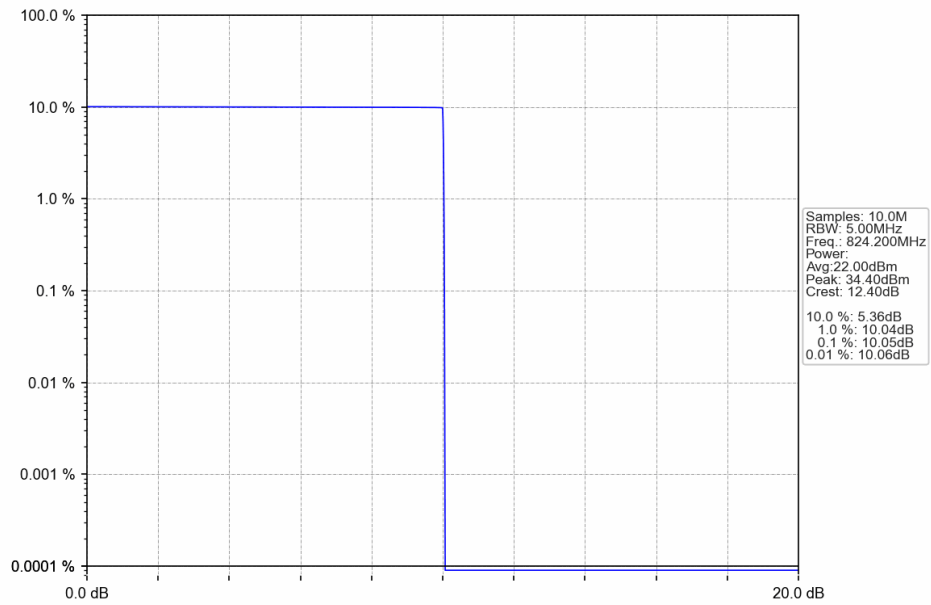
5.1.2 Test Graph



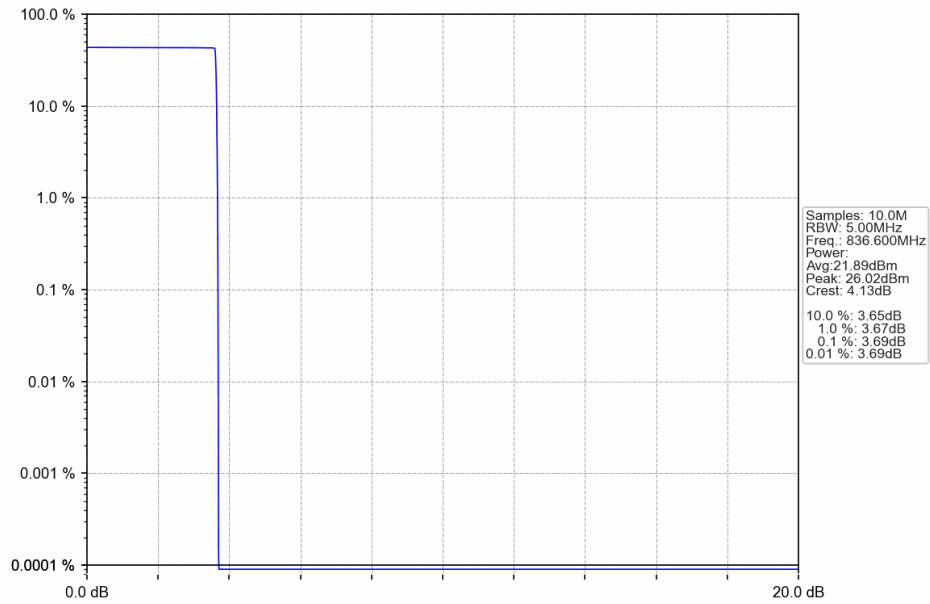
GSM850 GSM_HCH_848.8MHz GSM_NTNV



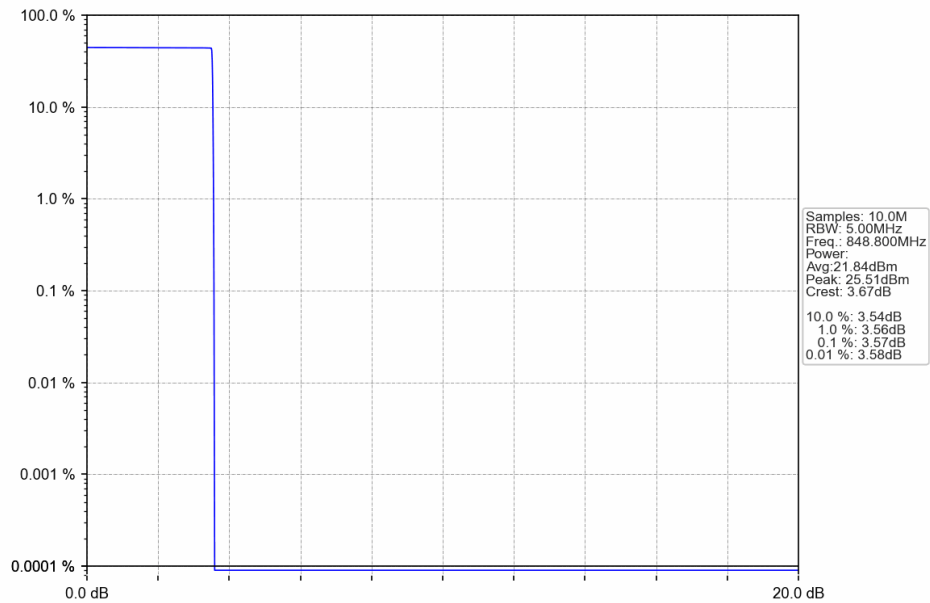
GSM850 GPRS_LCH_824.2MHz 4 TX Slots_NTNV



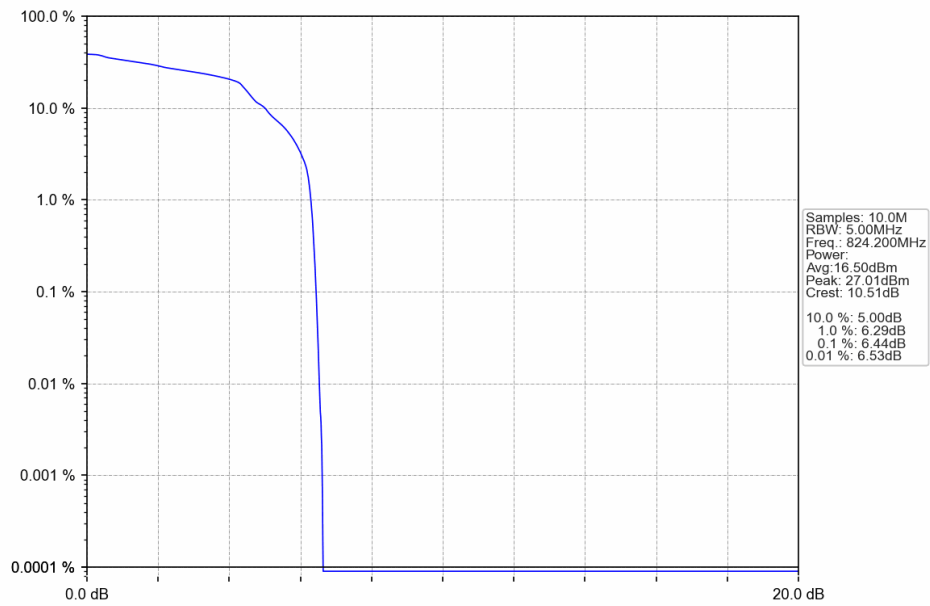
GSM850 GPRS MCH 836.6MHz 4 TX Slots NTNV



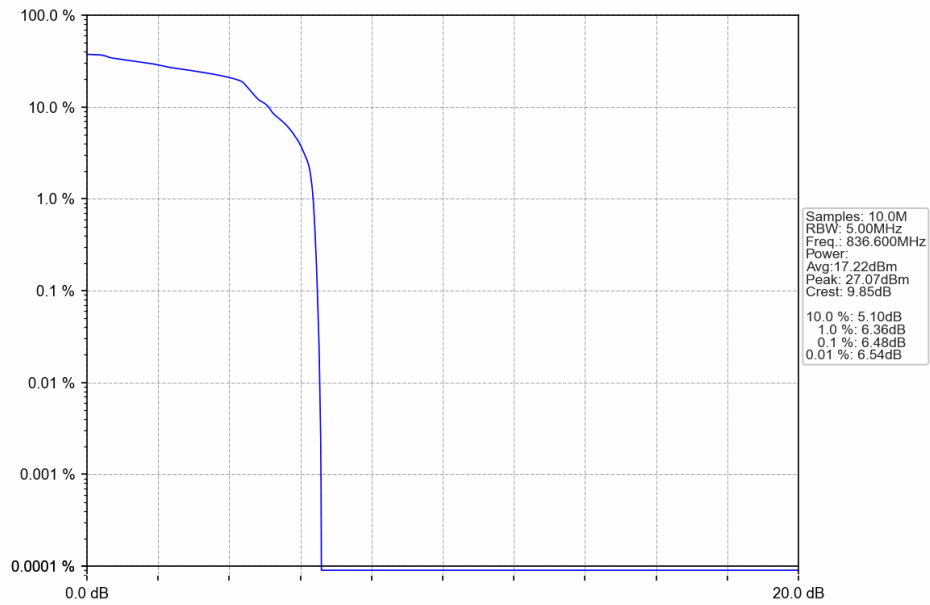
GSM850 GPRS HCH 848.8MHz 4 TX Slots NTNV



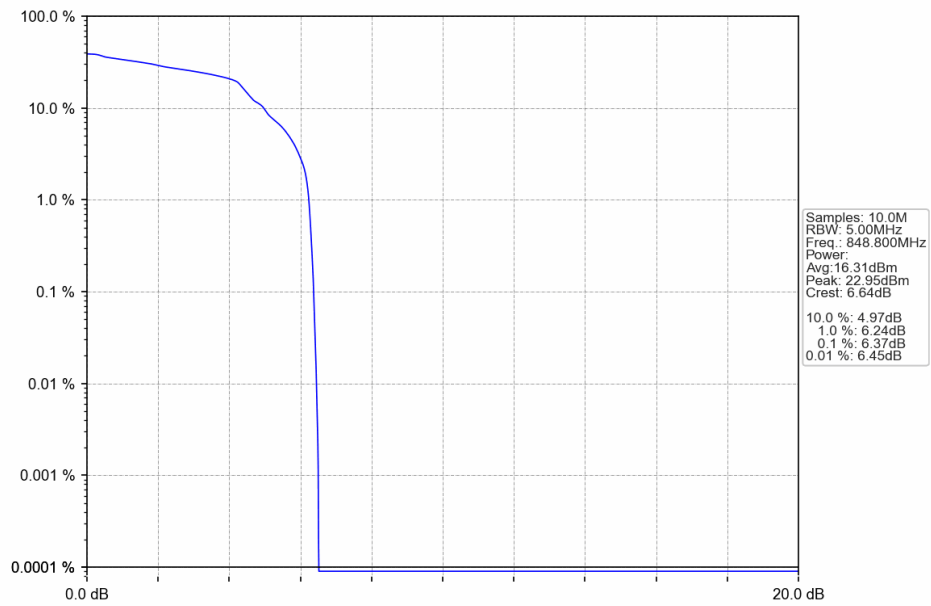
GSM850 EGPRS LCH 824.2MHz 4 TX Slots NTNV



GSM850 EGPRS MCH 836.6MHz 4 TX Slots NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



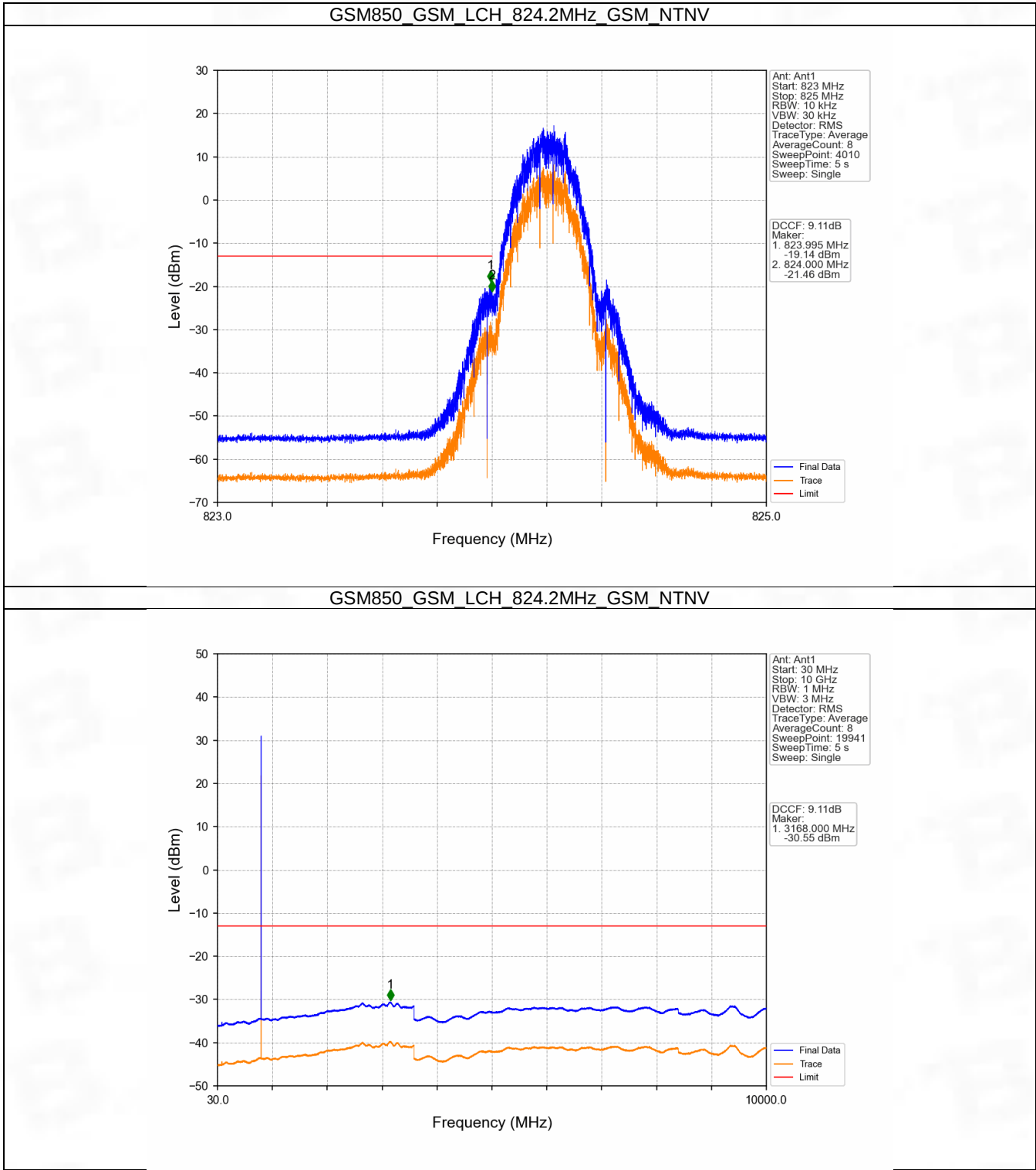
6. Spurious Emission

6.1 GSM850

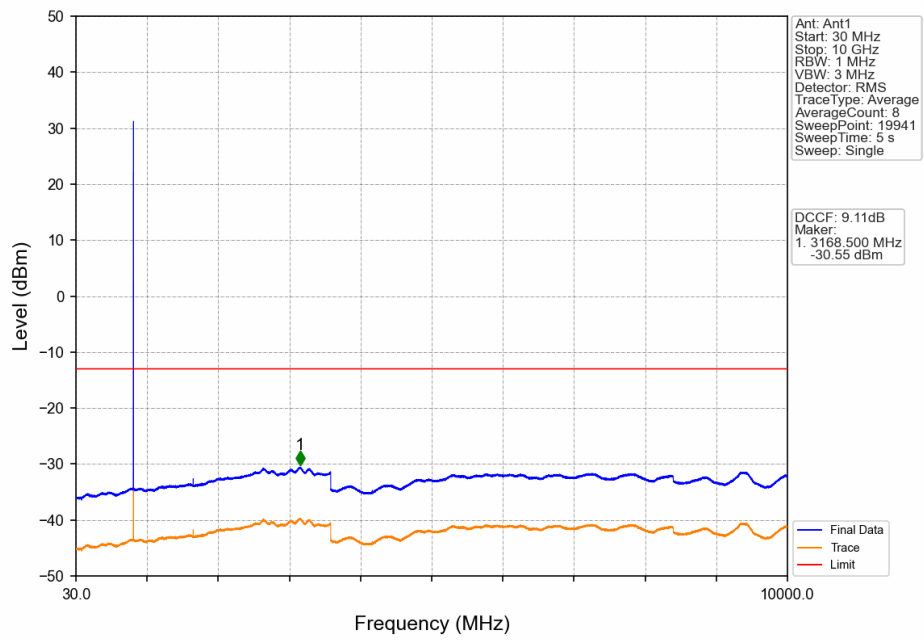
6.1.1 Test Result

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	

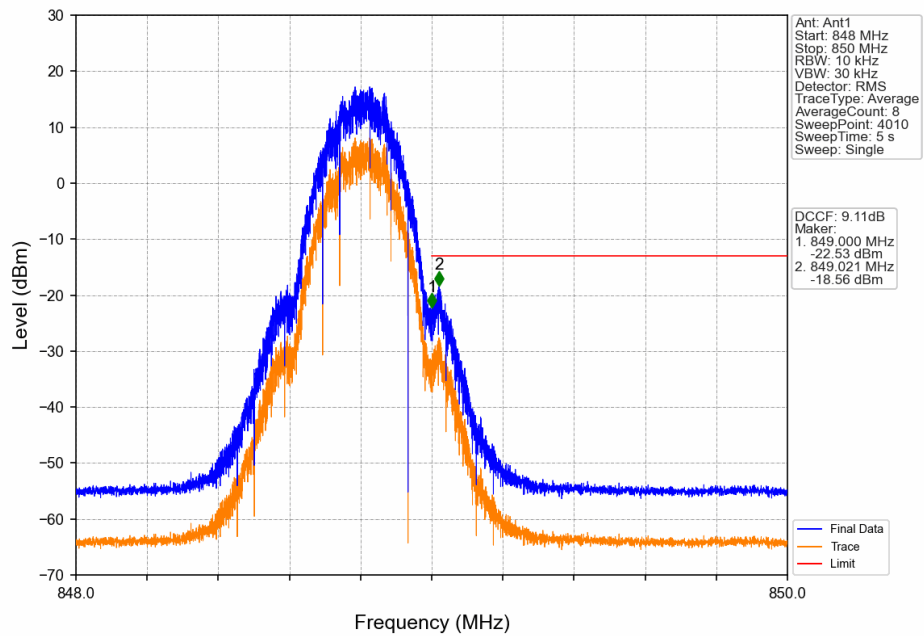
6.1.2 Test Graph



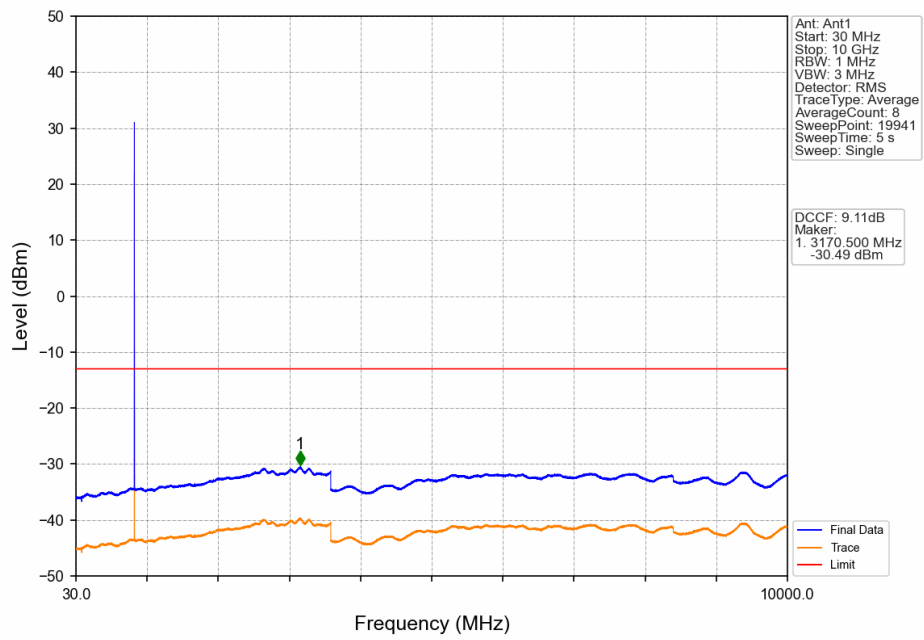
GSM850 GSM MCH 836.6MHz GSM NTNV



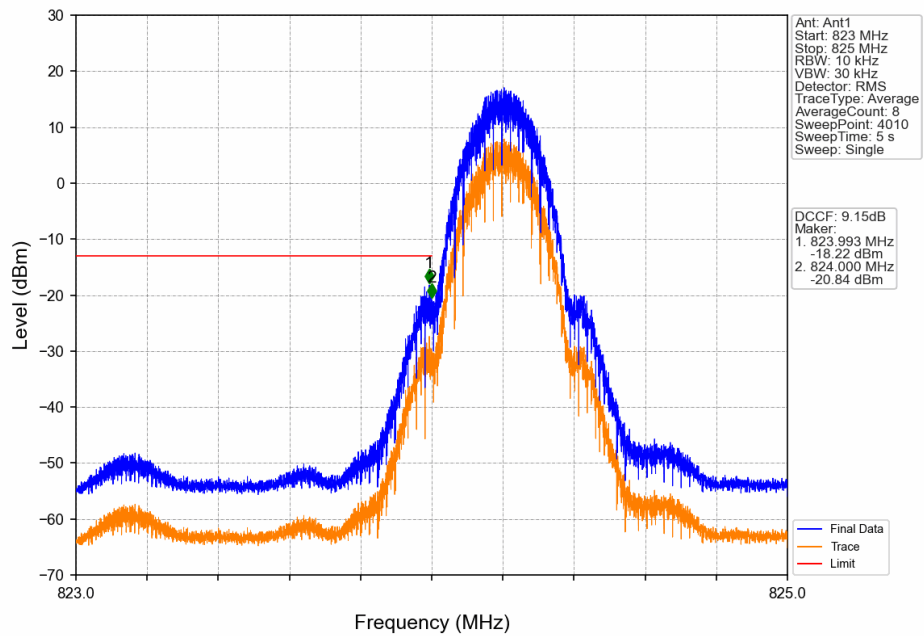
GSM850 GSM HCH 848.8MHz GSM NTNV



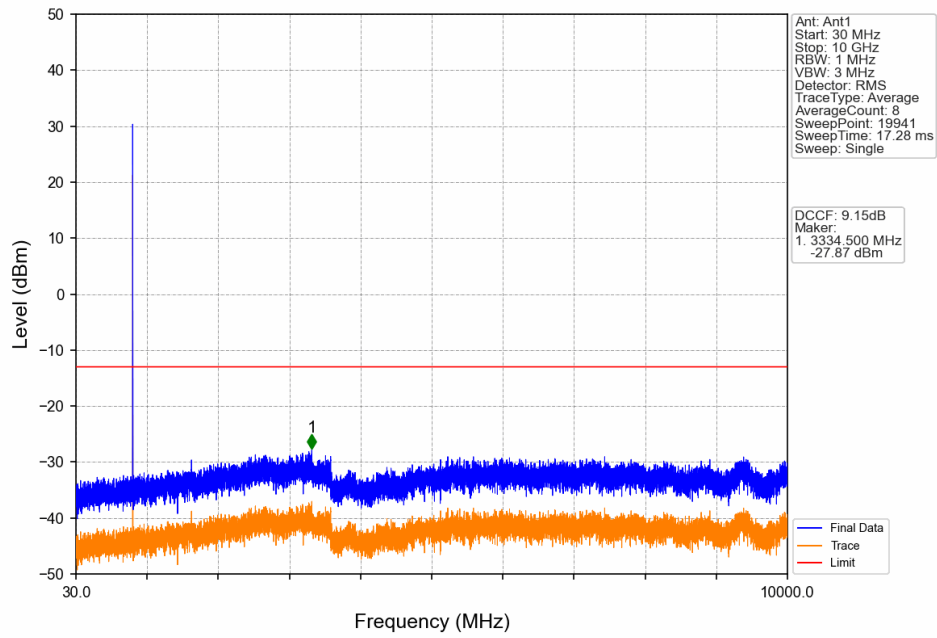
GSM850 GSM_HCH_848.8MHz GSM_NTNV



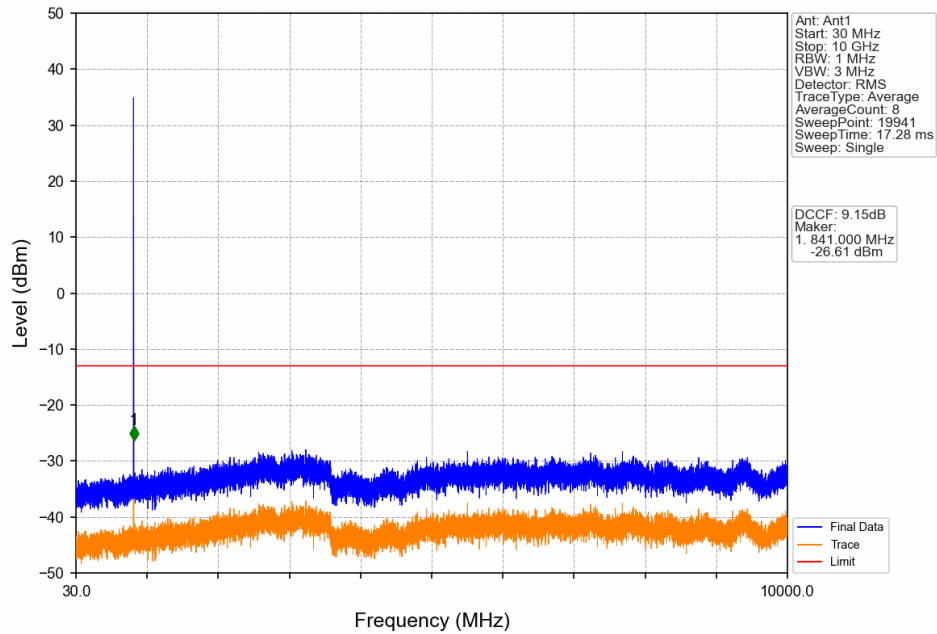
GSM850 GPRS_LCH_824.2MHz 1 TX Slot NTN



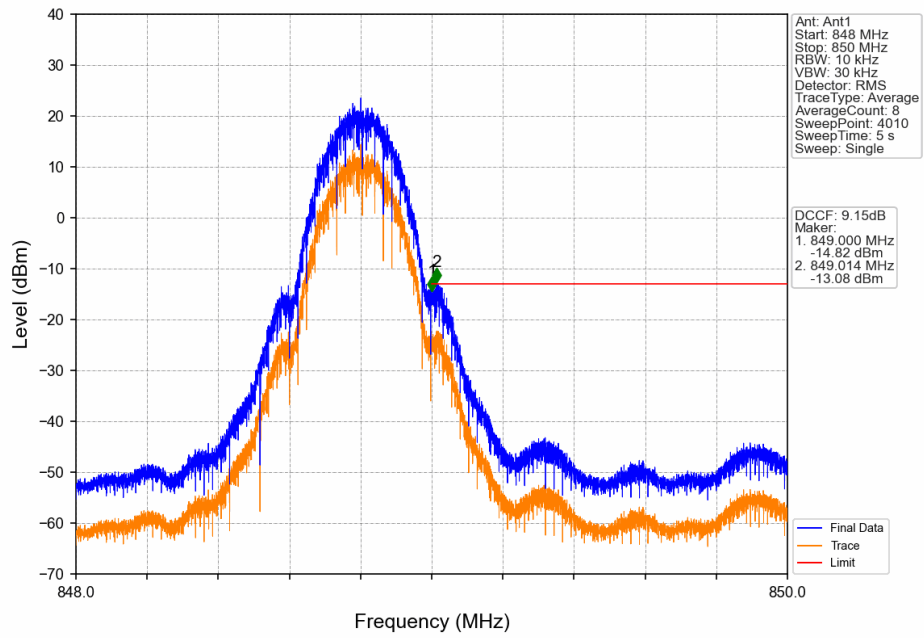
GSM850_GPRS_LCH_824.2MHz_1_TX_Slot_NTNV



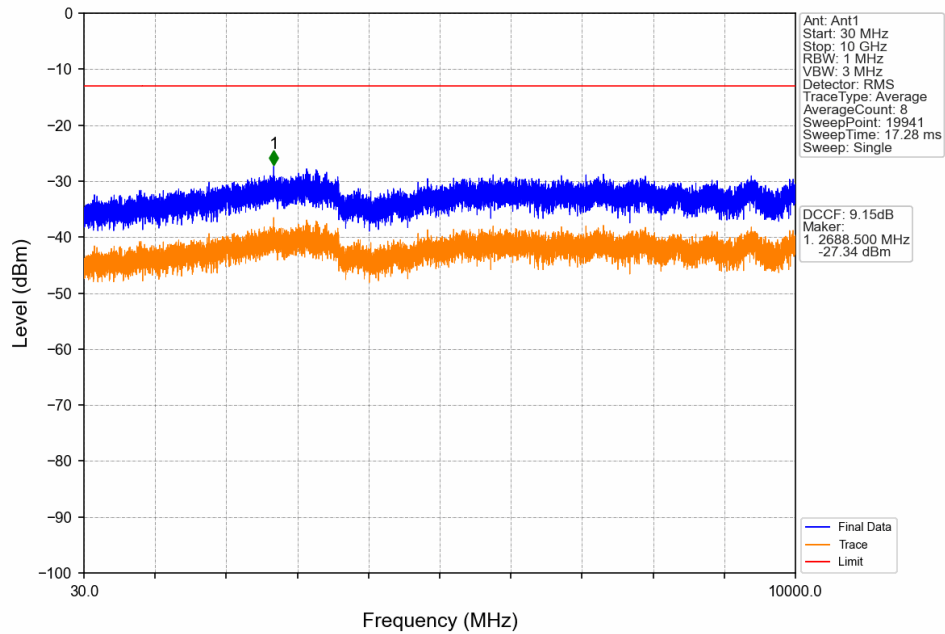
GSM850_GPRS_MCH_836.6MHz_1_TX_Slot_NTNV



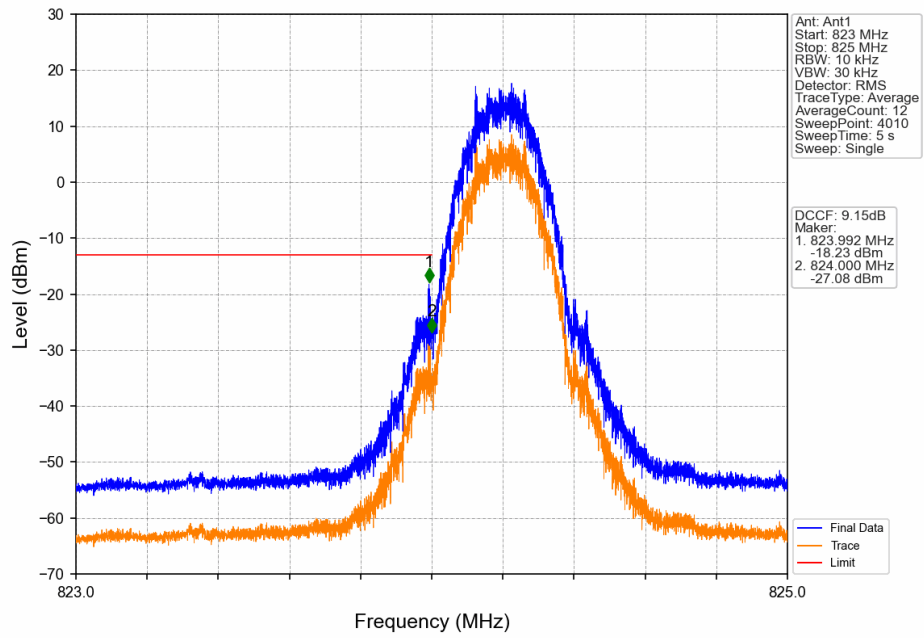
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



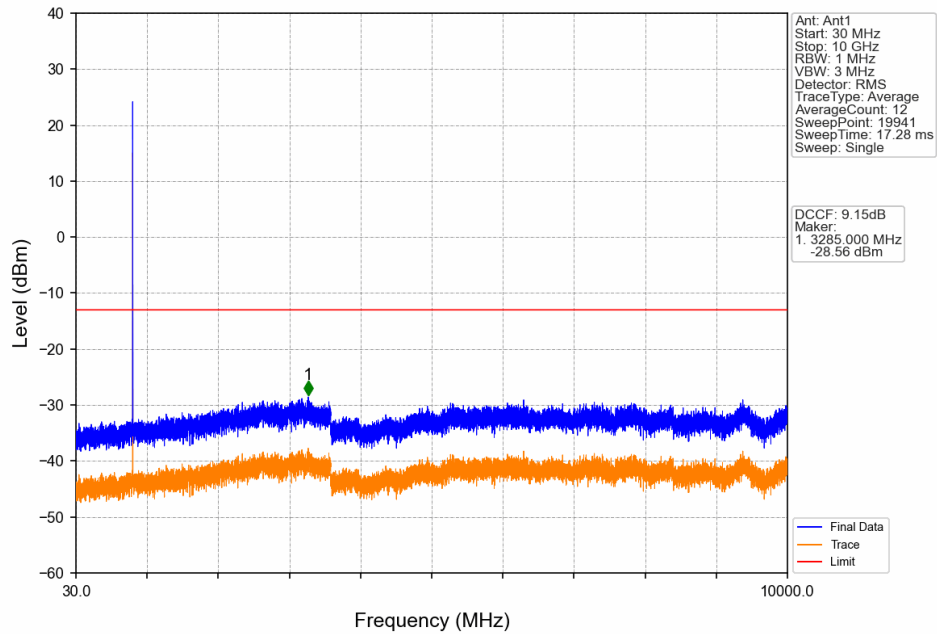
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



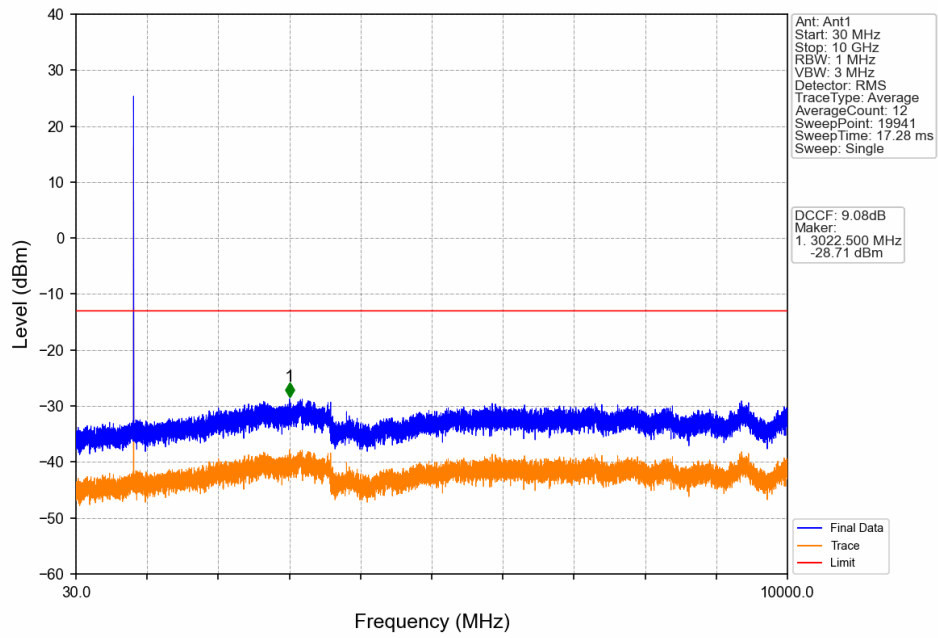
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



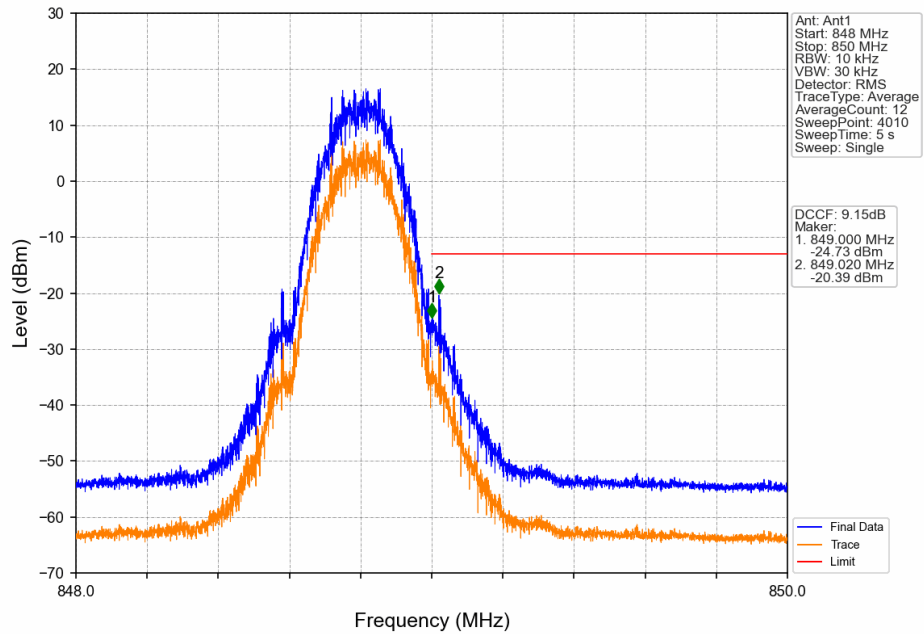
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



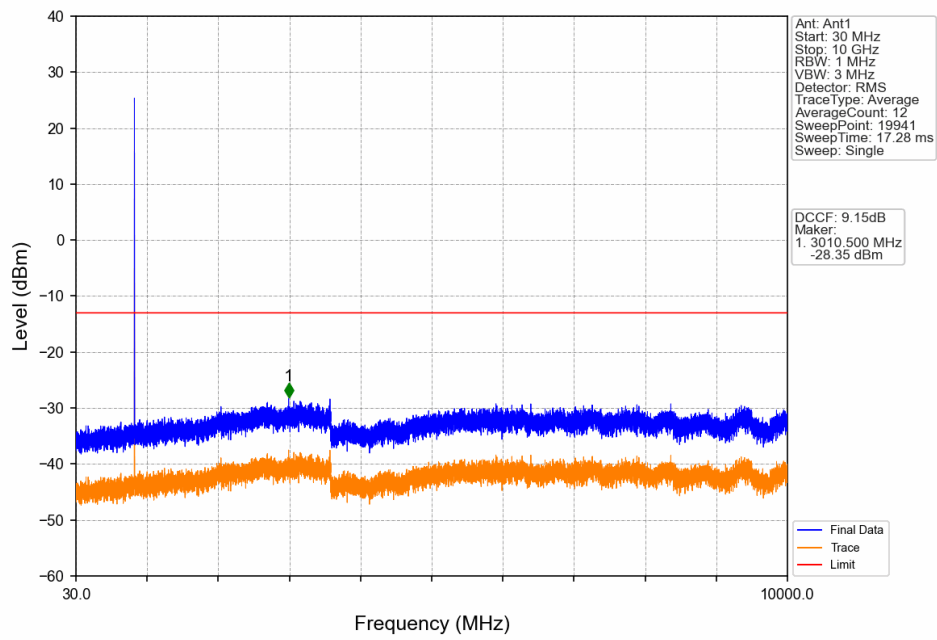
GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
GSM850	0.2	824.2	848.8	1.3740	0.0187	ppm	253KGXW	22H	31.38
GSM850	0.2	824.2	848.8	0.4256	0.0158	ppm	255KG7W	22H	26.29

7.2 Form731_ERP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
GSM850	0.2	824.2	848.8	0.7112	0.0187	ppm	253KGXW	22H	28.52
GSM850	0.2	824.2	848.8	0.2203	0.0158	ppm	255KG7W	22H	23.43