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	30.63	-0.71	27.77	<=38.45	Pass
			836.6	30.70	-0.71	27.84	<=38.45	Pass
			848.8	30.44	-0.71	27.58	<=38.45	Pass
	GPRS	1 TX Slot	824.2	30.70	-0.71	27.84	<=38.45	Pass
		2 TX Slots	824.2	29.86	-0.71	27.00	<=38.45	Pass
		3 TX Slots	824.2	28.00	-0.71	25.14	<=38.45	Pass
		4 TX Slots	824.2	26.72	-0.71	23.86	<=38.45	Pass
		1 TX Slot	836.6	30.64	-0.71	27.78	<=38.45	Pass
		2 TX Slots	836.6	29.82	-0.71	26.96	<=38.45	Pass
		3 TX Slots	836.6	27.97	-0.71	25.11	<=38.45	Pass
		4 TX Slots	836.6	26.78	-0.71	23.92	<=38.45	Pass
		1 TX Slot	848.8	30.33	-0.71	27.47	<=38.45	Pass
		2 TX Slots	848.8	29.52	-0.71	26.66	<=38.45	Pass
		3 TX Slots	848.8	27.66	-0.71	24.80	<=38.45	Pass
		4 TX Slots	848.8	26.46	-0.71	23.60	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.47	-0.71	23.61	<=38.45	Pass
		2 TX Slots	824.2	25.22	-0.71	22.36	<=38.45	Pass
		3 TX Slots	824.2	22.81	-0.71	19.95	<=38.45	Pass
		4 TX Slots	824.2	21.78	-0.71	18.92	<=38.45	Pass
		1 TX Slot	836.6	26.35	-0.71	23.49	<=38.45	Pass
		2 TX Slots	836.6	26.56	-0.71	23.70	<=38.45	Pass
		3 TX Slots	836.6	25.78	-0.71	22.92	<=38.45	Pass
		4 TX Slots	836.6	23.24	-0.71	20.38	<=38.45	Pass
		1 TX Slot	848.8	26.25	-0.71	23.39	<=38.45	Pass
		2 TX Slots	848.8	25.07	-0.71	22.21	<=38.45	Pass
		3 TX Slots	848.8	22.71	-0.71	19.85	<=38.45	Pass
		4 TX Slots	848.8	21.53	-0.71	18.67	<=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	8.620	0.0105	-2.5 to 2.5	Pass
			3.85	5.908	0.0072	-2.5 to 2.5	Pass
			4.43	10.396	0.0126	-2.5 to 2.5	Pass

		-30	3.85	8.297	0.0101	-2.5 to 2.5	Pass
		-20	3.85	8.588	0.0104	-2.5 to 2.5	Pass
		-10	3.85	5.682	0.0069	-2.5 to 2.5	Pass
		0	3.85	8.782	0.0107	-2.5 to 2.5	Pass
		10	3.85	7.910	0.0096	-2.5 to 2.5	Pass
		30	3.85	9.395	0.0114	-2.5 to 2.5	Pass
		40	3.85	7.878	0.0096	-2.5 to 2.5	Pass
		50	3.85	4.811	0.0058	-2.5 to 2.5	Pass
	836.6	20	3.27	13.399	0.0160	-2.5 to 2.5	Pass
			3.85	8.943	0.0107	-2.5 to 2.5	Pass
			4.43	9.266	0.0111	-2.5 to 2.5	Pass
		-30	3.85	9.395	0.0112	-2.5 to 2.5	Pass
		-20	3.85	8.782	0.0105	-2.5 to 2.5	Pass
		-10	3.85	9.105	0.0109	-2.5 to 2.5	Pass
		0	3.85	7.426	0.0089	-2.5 to 2.5	Pass
		10	3.85	10.848	0.0130	-2.5 to 2.5	Pass
		30	3.85	10.783	0.0129	-2.5 to 2.5	Pass
		40	3.85	10.687	0.0128	-2.5 to 2.5	Pass
		50	3.85	11.332	0.0135	-2.5 to 2.5	Pass
	848.8	20	3.27	8.104	0.0095	-2.5 to 2.5	Pass
			3.85	9.266	0.0109	-2.5 to 2.5	Pass
			4.43	8.427	0.0099	-2.5 to 2.5	Pass
		-30	3.85	9.750	0.0115	-2.5 to 2.5	Pass
		-20	3.85	10.880	0.0128	-2.5 to 2.5	Pass
		-10	3.85	8.685	0.0102	-2.5 to 2.5	Pass
		0	3.85	7.684	0.0091	-2.5 to 2.5	Pass
		10	3.85	9.879	0.0116	-2.5 to 2.5	Pass
		30	3.85	3.035	0.0036	-2.5 to 2.5	Pass
		40	3.85	5.747	0.0068	-2.5 to 2.5	Pass
		50	3.85	6.070	0.0072	-2.5 to 2.5	Pass
GPRS	824.2	20	3.27	19.856	0.0241	-2.5 to 2.5	Pass
			3.85	19.113	0.0232	-2.5 to 2.5	Pass
			4.43	19.565	0.0237	-2.5 to 2.5	Pass
		-30	3.85	17.983	0.0218	-2.5 to 2.5	Pass
		-20	3.85	16.304	0.0198	-2.5 to 2.5	Pass
		-10	3.85	15.755	0.0191	-2.5 to 2.5	Pass
		0	3.85	16.078	0.0195	-2.5 to 2.5	Pass
		10	3.85	16.111	0.0195	-2.5 to 2.5	Pass
		30	3.85	16.175	0.0196	-2.5 to 2.5	Pass
		40	3.85	18.177	0.0221	-2.5 to 2.5	Pass
		50	3.85	20.954	0.0254	-2.5 to 2.5	Pass
	836.6	20	3.27	19.856	0.0237	-2.5 to 2.5	Pass
			3.85	18.209	0.0218	-2.5 to 2.5	Pass
			4.43	16.886	0.0202	-2.5 to 2.5	Pass
		-30	3.85	18.952	0.0227	-2.5 to 2.5	Pass
		-20	3.85	18.790	0.0225	-2.5 to 2.5	Pass
		-10	3.85	12.139	0.0145	-2.5 to 2.5	Pass
		0	3.85	13.851	0.0166	-2.5 to 2.5	Pass
		10	3.85	17.693	0.0211	-2.5 to 2.5	Pass
		30	3.85	18.758	0.0224	-2.5 to 2.5	Pass
		40	3.85	20.082	0.0240	-2.5 to 2.5	Pass
		50	3.85	23.310	0.0279	-2.5 to 2.5	Pass
	848.8	20	3.27	18.371	0.0216	-2.5 to 2.5	Pass
			3.85	18.694	0.0220	-2.5 to 2.5	Pass
			4.43	19.468	0.0229	-2.5 to 2.5	Pass

		-30	3.85	19.824	0.0234	-2.5 to 2.5	Pass
		-20	3.85	15.110	0.0178	-2.5 to 2.5	Pass
		-10	3.85	17.531	0.0207	-2.5 to 2.5	Pass
		0	3.85	17.338	0.0204	-2.5 to 2.5	Pass
		10	3.85	14.787	0.0174	-2.5 to 2.5	Pass
		30	3.85	17.402	0.0205	-2.5 to 2.5	Pass
		40	3.85	17.176	0.0202	-2.5 to 2.5	Pass
		50	3.85	14.819	0.0175	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.27	14.981	0.0182	-2.5 to 2.5	Pass
			3.85	12.947	0.0157	-2.5 to 2.5	Pass
			4.43	14.044	0.0170	-2.5 to 2.5	Pass
		-30	3.85	14.141	0.0172	-2.5 to 2.5	Pass
		-20	3.85	12.979	0.0157	-2.5 to 2.5	Pass
		-10	3.85	10.719	0.0130	-2.5 to 2.5	Pass
		0	3.85	12.979	0.0157	-2.5 to 2.5	Pass
		10	3.85	12.398	0.0150	-2.5 to 2.5	Pass
		30	3.85	14.593	0.0177	-2.5 to 2.5	Pass
		40	3.85	12.850	0.0156	-2.5 to 2.5	Pass
		50	3.85	14.270	0.0173	-2.5 to 2.5	Pass
	836.6	20	3.27	10.170	0.0122	-2.5 to 2.5	Pass
			3.85	17.176	0.0205	-2.5 to 2.5	Pass
			4.43	14.787	0.0177	-2.5 to 2.5	Pass
		-30	3.85	15.917	0.0190	-2.5 to 2.5	Pass
		-20	3.85	14.432	0.0173	-2.5 to 2.5	Pass
		-10	3.85	11.881	0.0142	-2.5 to 2.5	Pass
		0	3.85	12.688	0.0152	-2.5 to 2.5	Pass
		10	3.85	13.625	0.0163	-2.5 to 2.5	Pass
		30	3.85	13.818	0.0165	-2.5 to 2.5	Pass
		40	3.85	12.559	0.0150	-2.5 to 2.5	Pass
		50	3.85	12.301	0.0147	-2.5 to 2.5	Pass
	848.8	20	3.27	10.945	0.0129	-2.5 to 2.5	Pass
			3.85	11.558	0.0136	-2.5 to 2.5	Pass
			4.43	14.399	0.0170	-2.5 to 2.5	Pass
		-30	3.85	12.010	0.0141	-2.5 to 2.5	Pass
		-20	3.85	11.494	0.0135	-2.5 to 2.5	Pass
		-10	3.85	10.525	0.0124	-2.5 to 2.5	Pass
		0	3.85	14.044	0.0165	-2.5 to 2.5	Pass
		10	3.85	12.785	0.0151	-2.5 to 2.5	Pass
		30	3.85	13.721	0.0162	-2.5 to 2.5	Pass
		40	3.85	11.203	0.0132	-2.5 to 2.5	Pass
		50	3.85	12.721	0.0150	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 GSM850

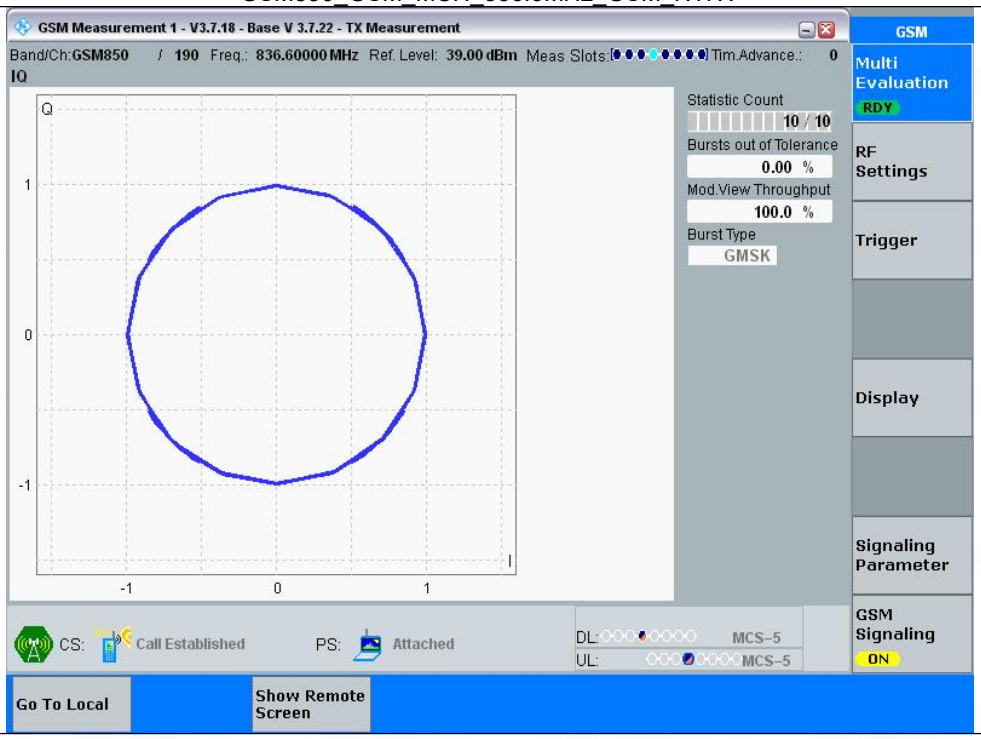
3.1.1 Test Result

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

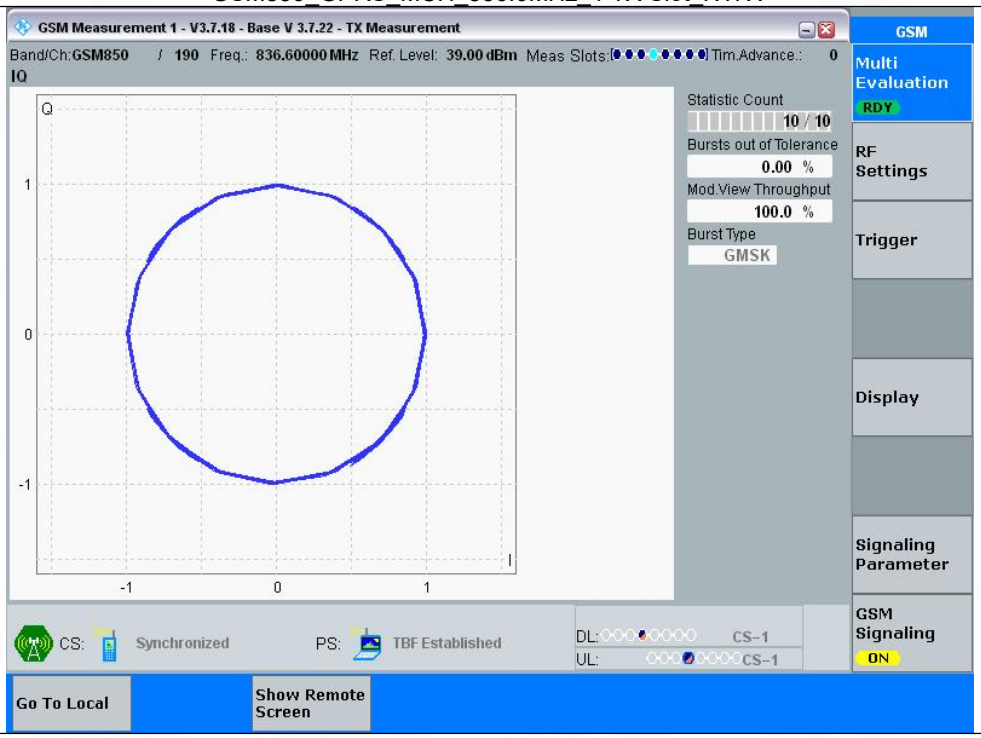
	GPRS	1 TX Slot	836.6	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	836.6	Refer To Test Graph	Pass

3.1.2 Test Graph

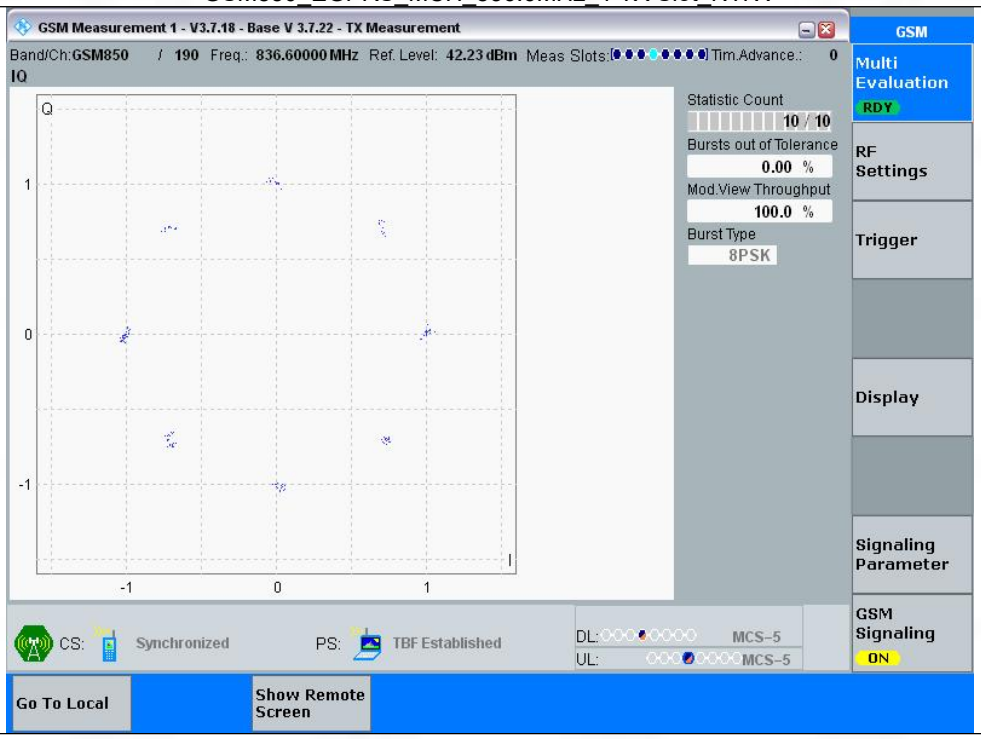
GSM850_GSM_MCH_836.6MHz_GSM_NTNV



GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



4. 99% & 26dB Bandwidth

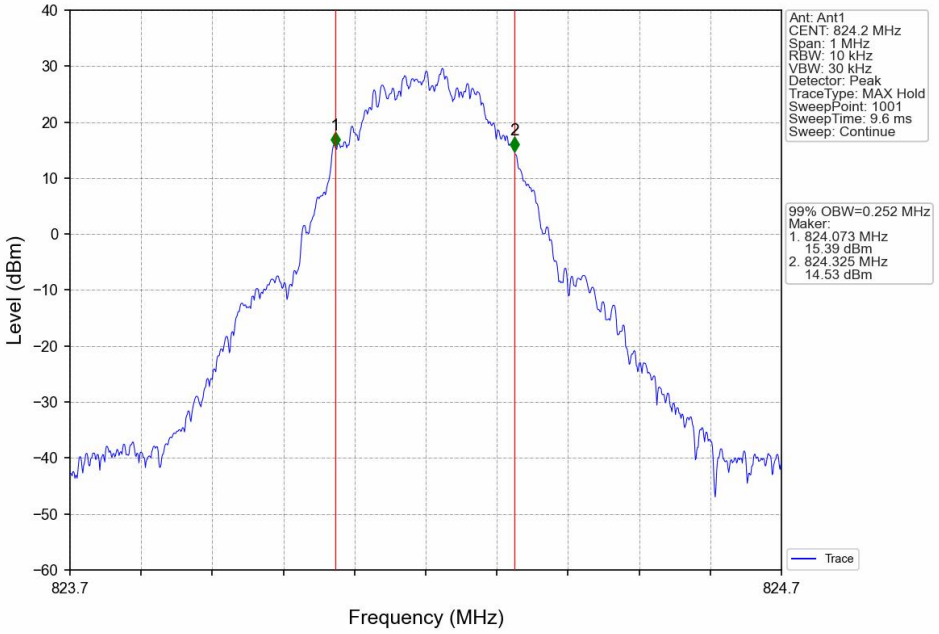
4.1 GSM850_OBW

4.1.1 Test Result

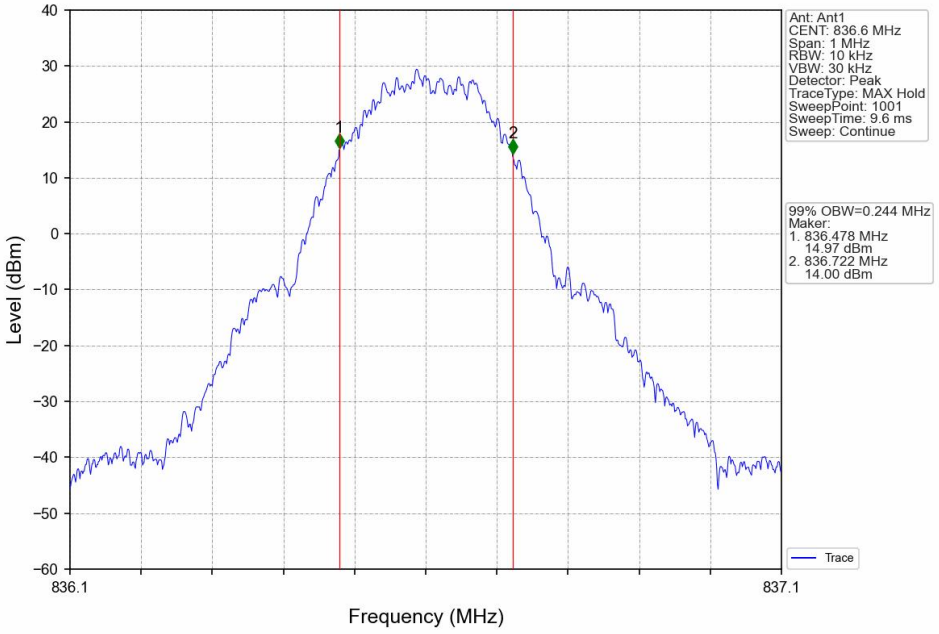
Band: GSM850					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	824.2	0.252	Pass
			836.6	0.244	Pass
			848.8	0.245	Pass
	GPRS	1 TX Slot	824.2	0.246	Pass
			836.6	0.252	Pass
			848.8	0.243	Pass
	EGPRS	1 TX Slot	824.2	0.242	Pass
			836.6	0.245	Pass
			848.8	0.249	Pass

4.1.2 Test Graph

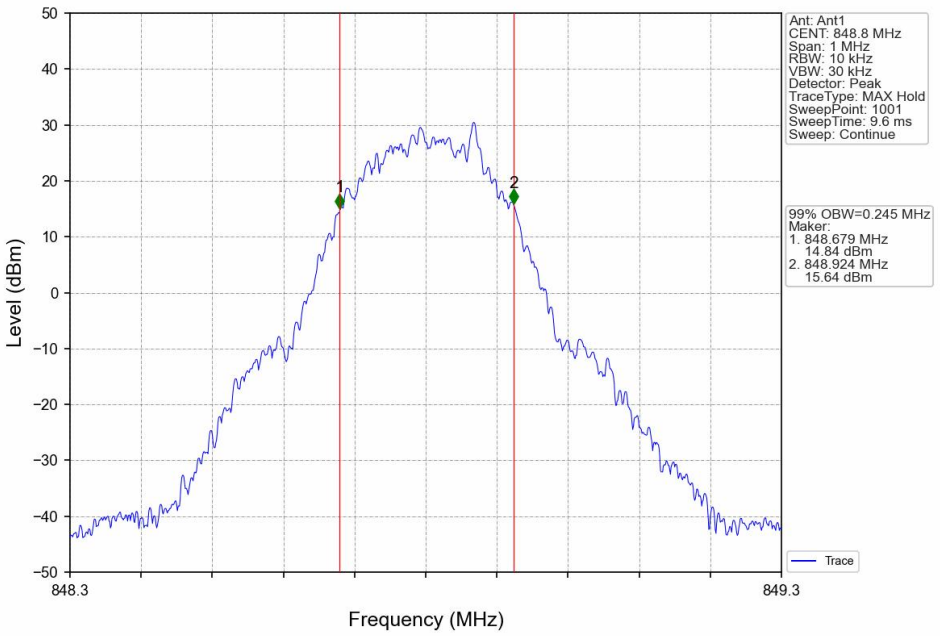
GSM850_GSM_LCH_824.2MHz_GSM_NTNV



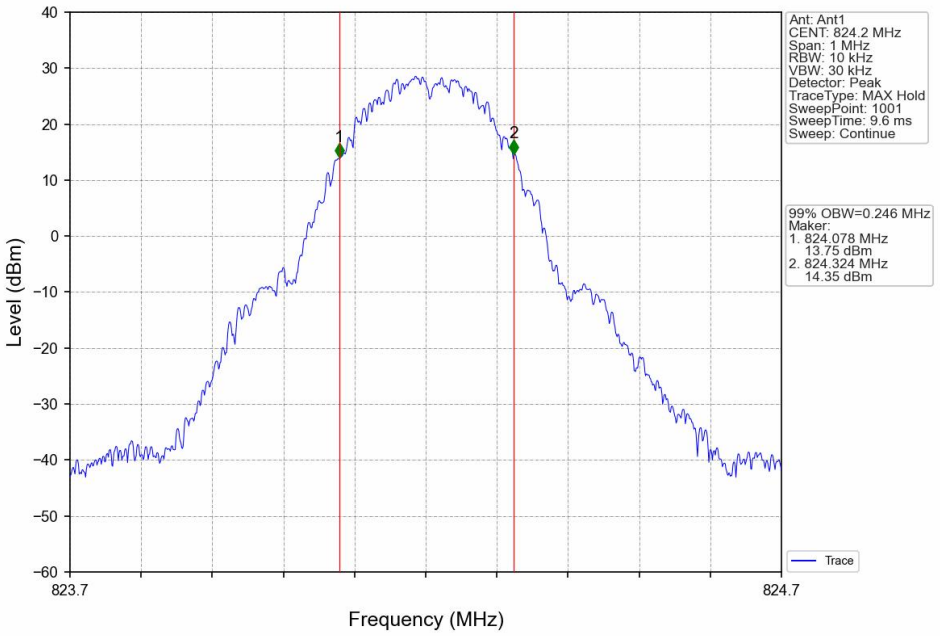
GSM850_GSM_MCH_836.6MHz_GSM_NTNV



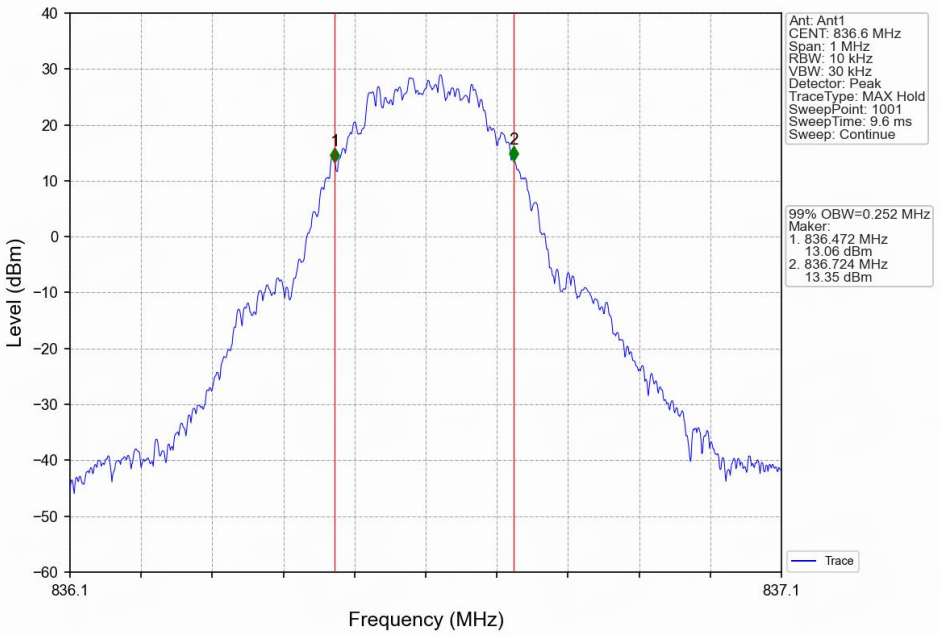
GSM850_GSM_HCH_848.8MHz_GSM_NTNV



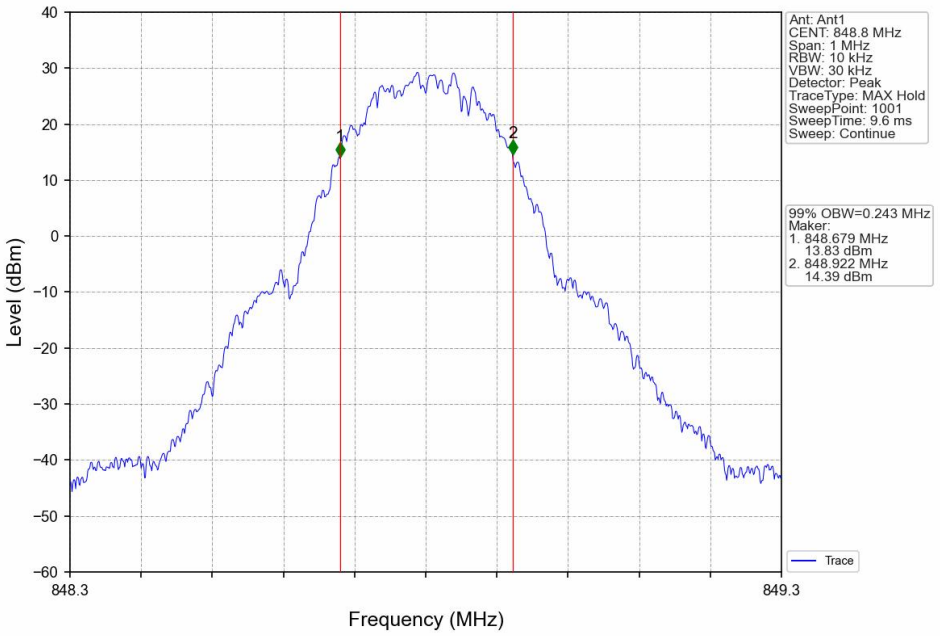
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



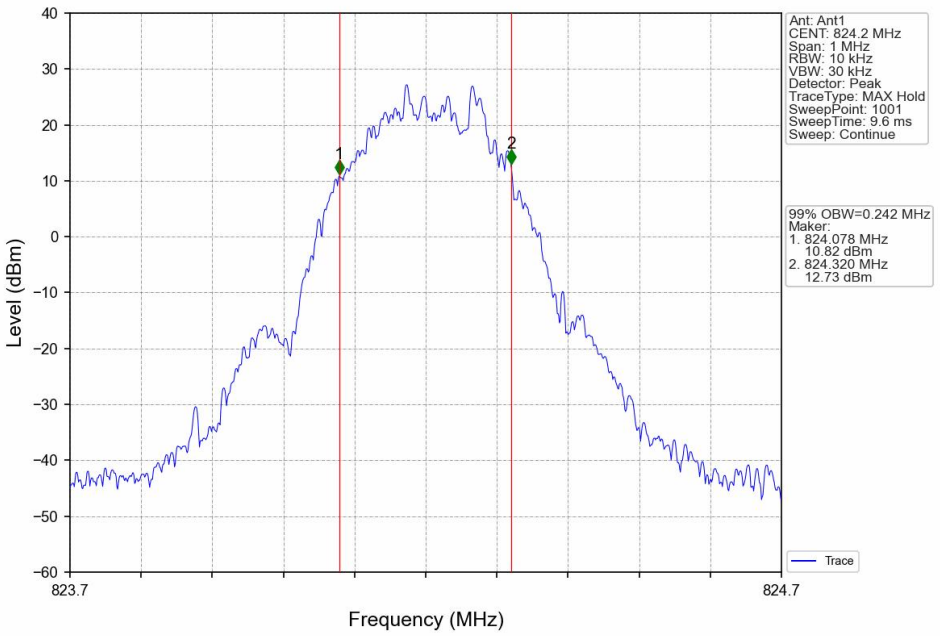
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



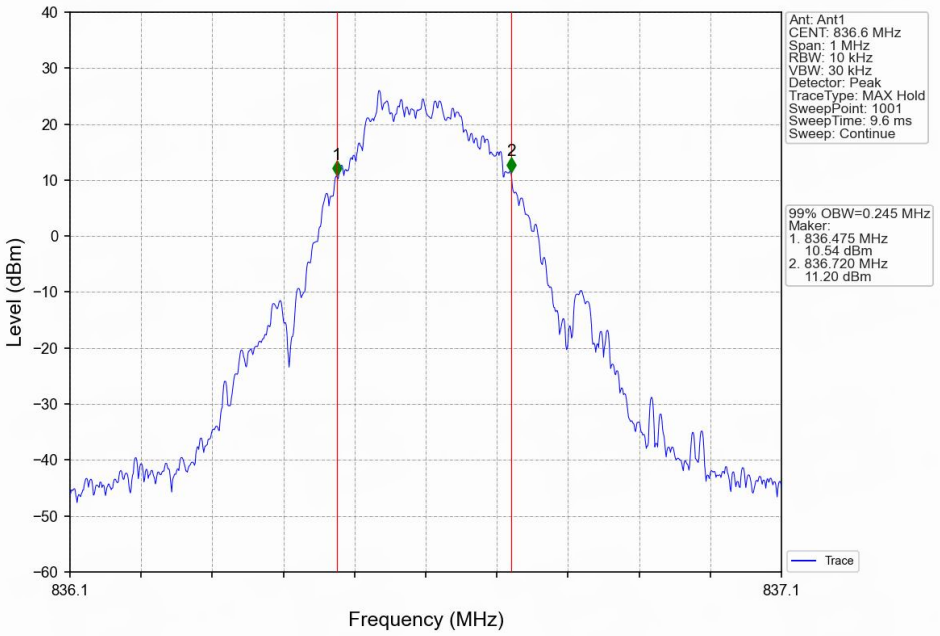
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



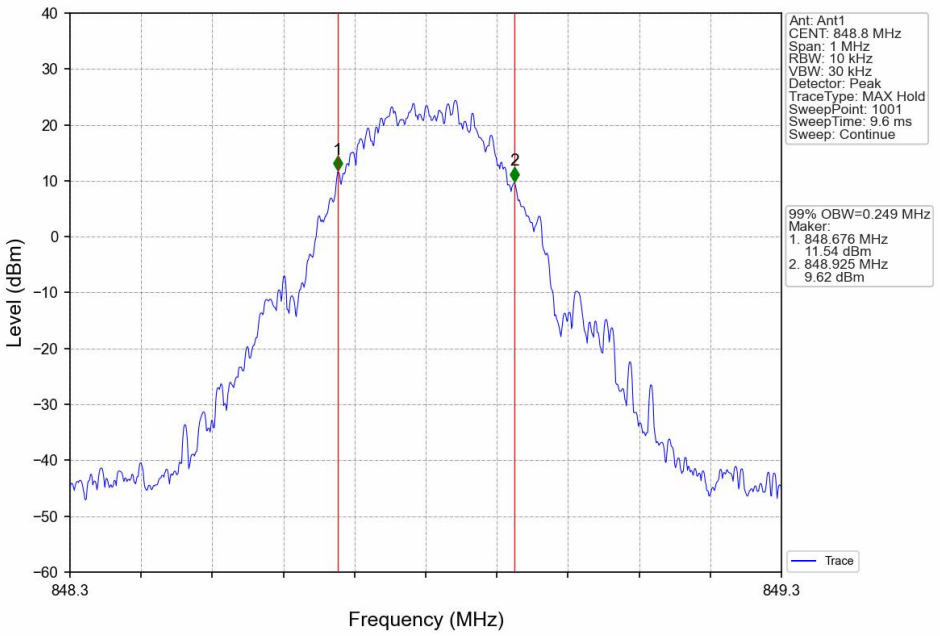
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



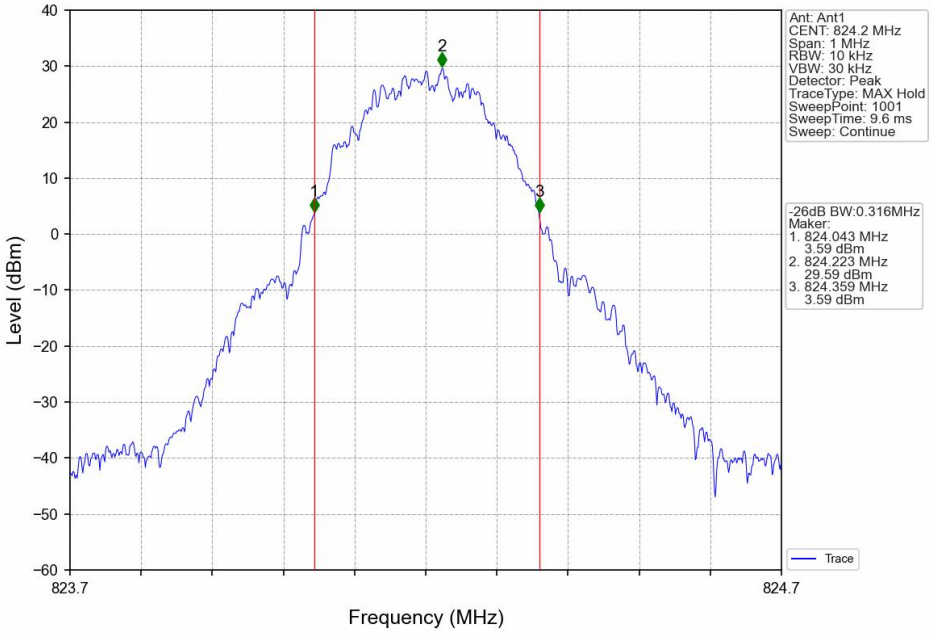
4.2 GSM850_XDB

4.2.1 Test Result

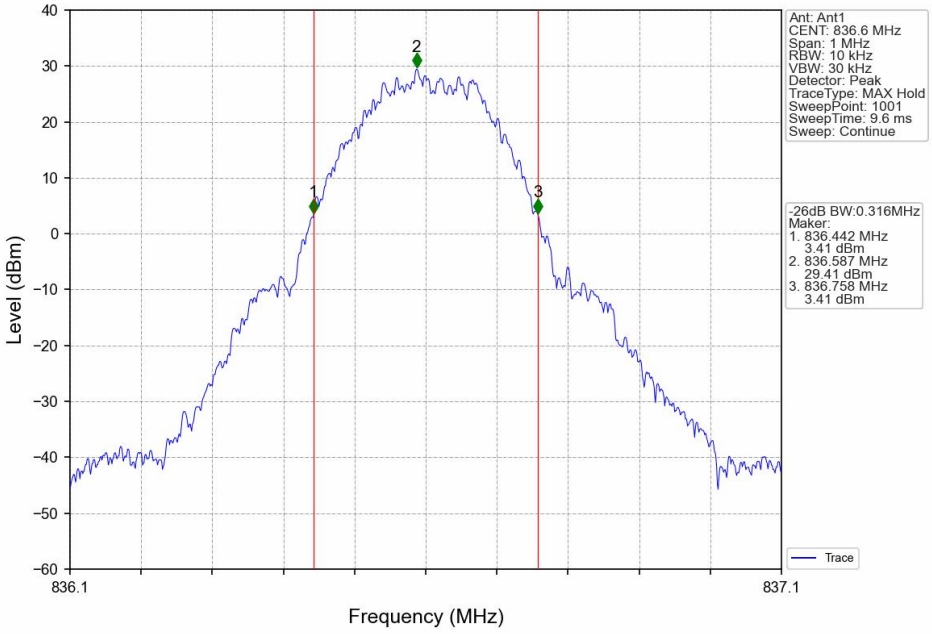
Band: GSM850					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	824.2	0.316	Pass
			836.6	0.316	Pass
			848.8	0.309	Pass
	GPRS	1 TX Slot	824.2	0.319	Pass
			836.6	0.319	Pass
			848.8	0.321	Pass
	EGPRS	1 TX Slot	824.2	0.307	Pass
			836.6	0.309	Pass
			848.8	0.321	Pass

4.2.2 Test Graph

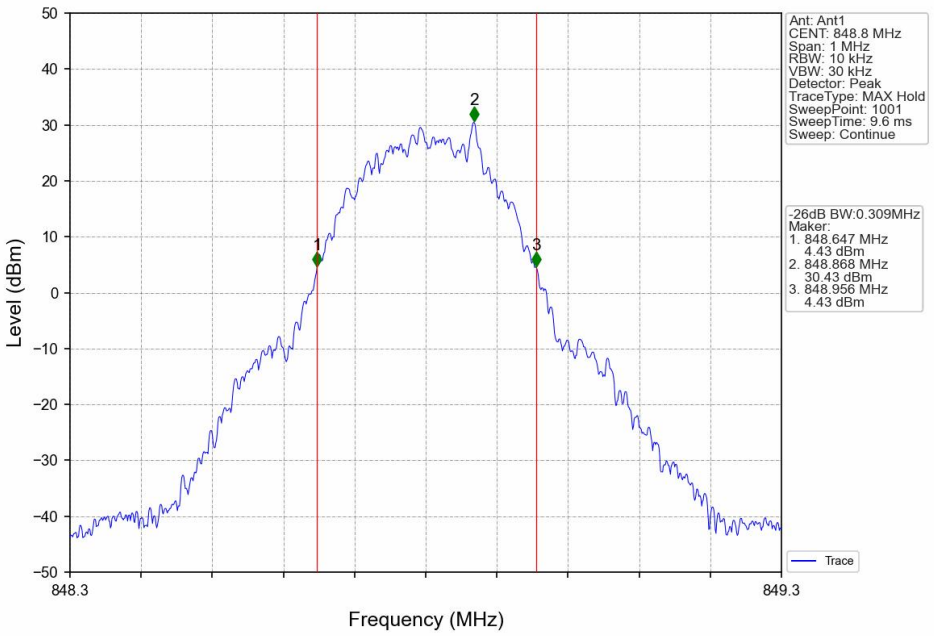
GSM850_GSM_LCH_824.2MHz_GSM_NTNV



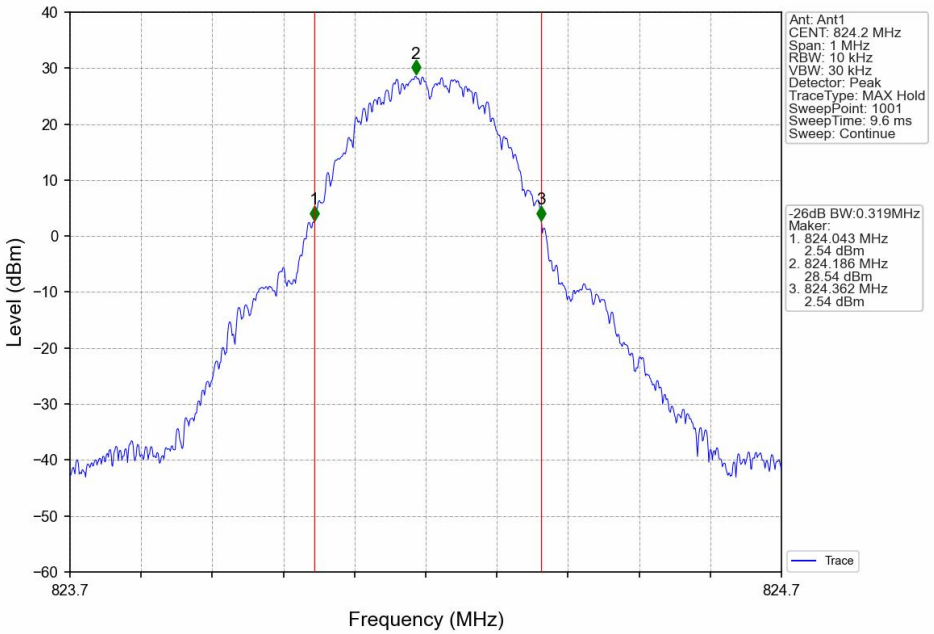
GSM850_GSM_MCH_836.6MHz_GSM_NTNV



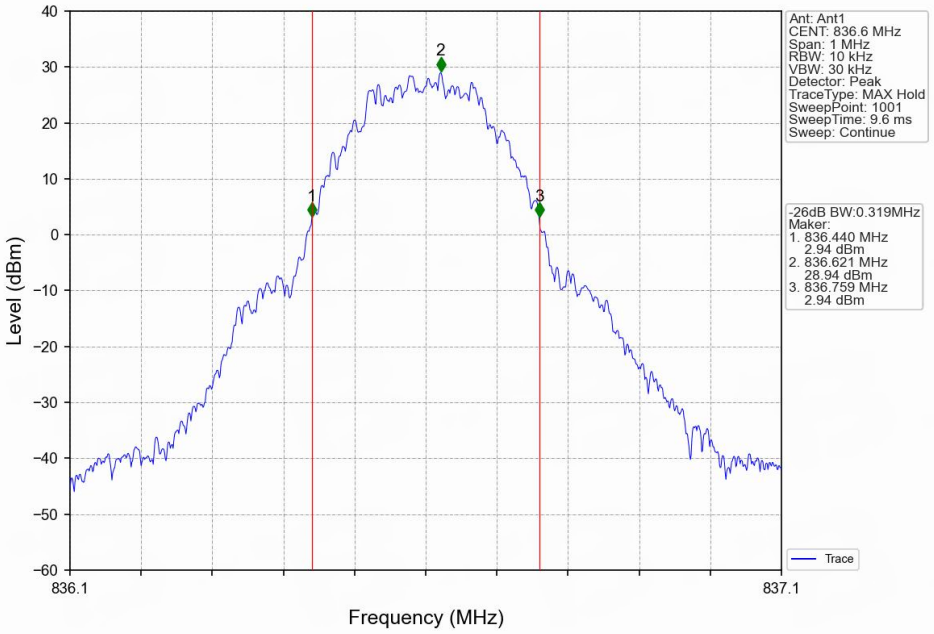
GSM850_GSM_HCH_848.8MHz_GSM_NTNV



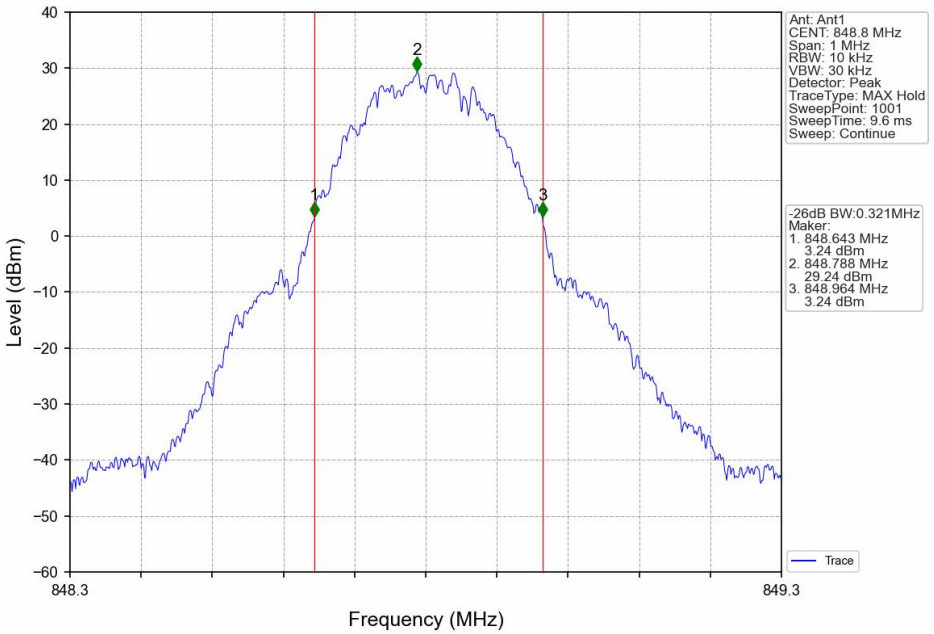
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



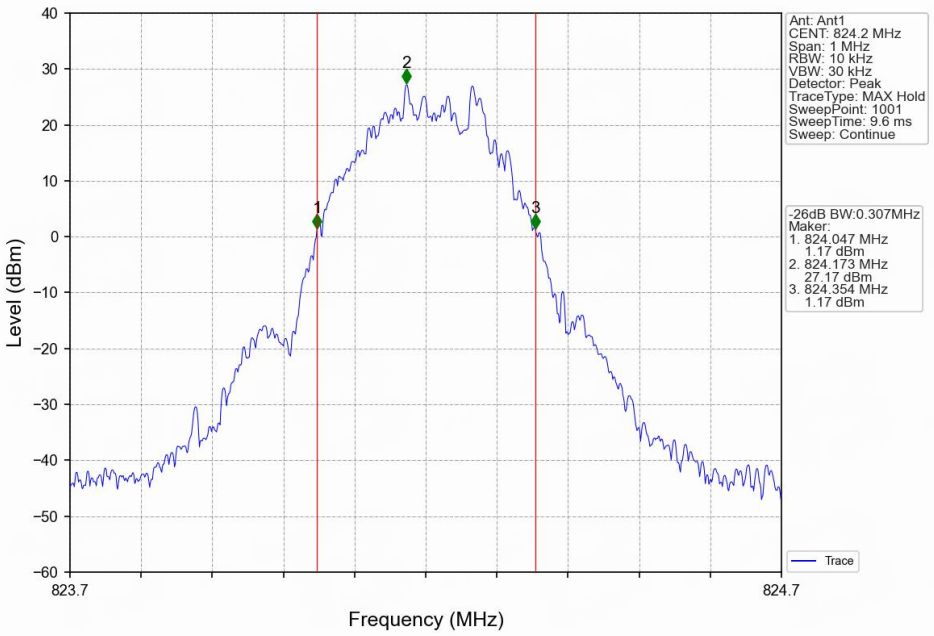
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



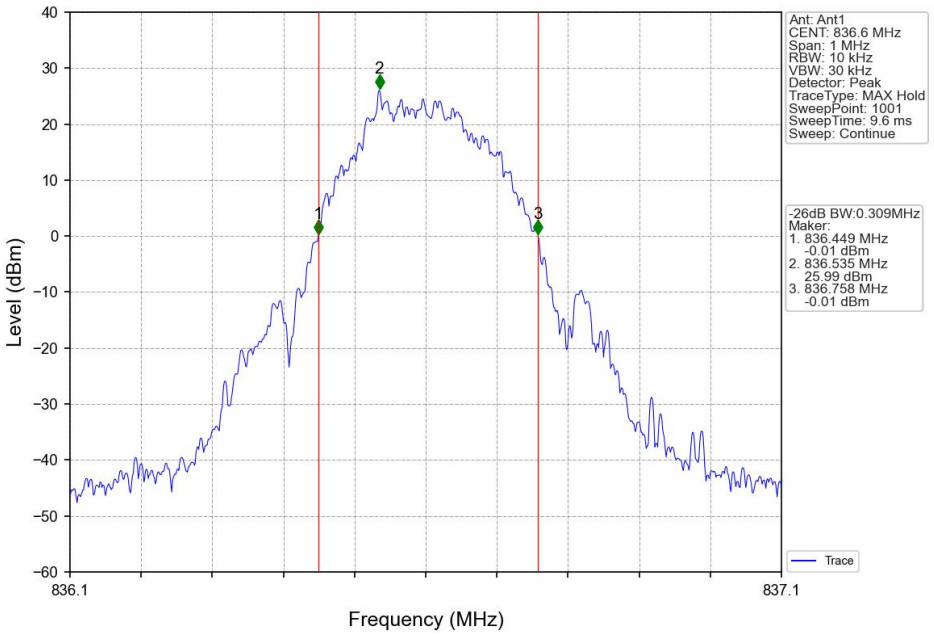
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



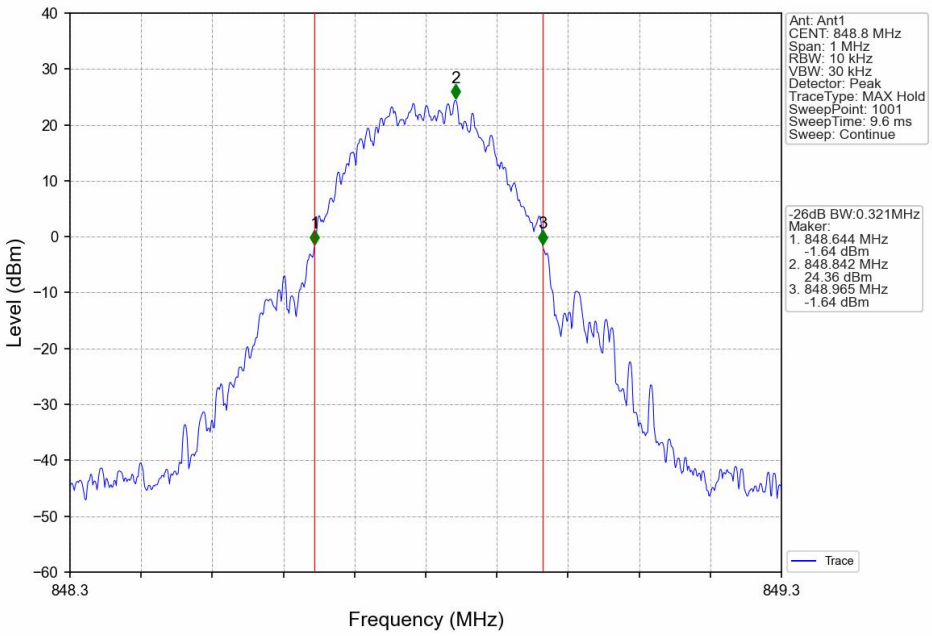
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



5. Peak-Average Ratio

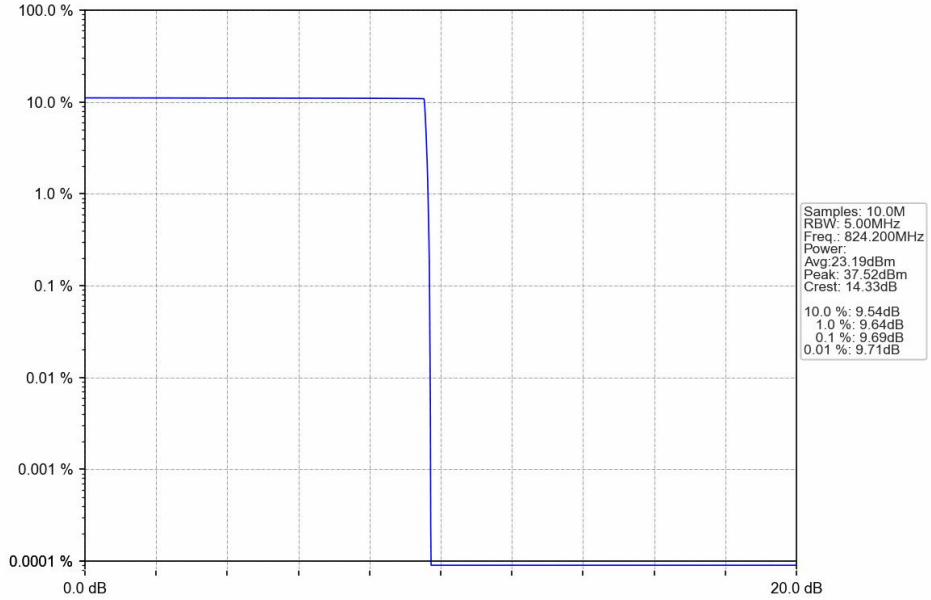
5.1 GSM850

5.1.1 Test Result

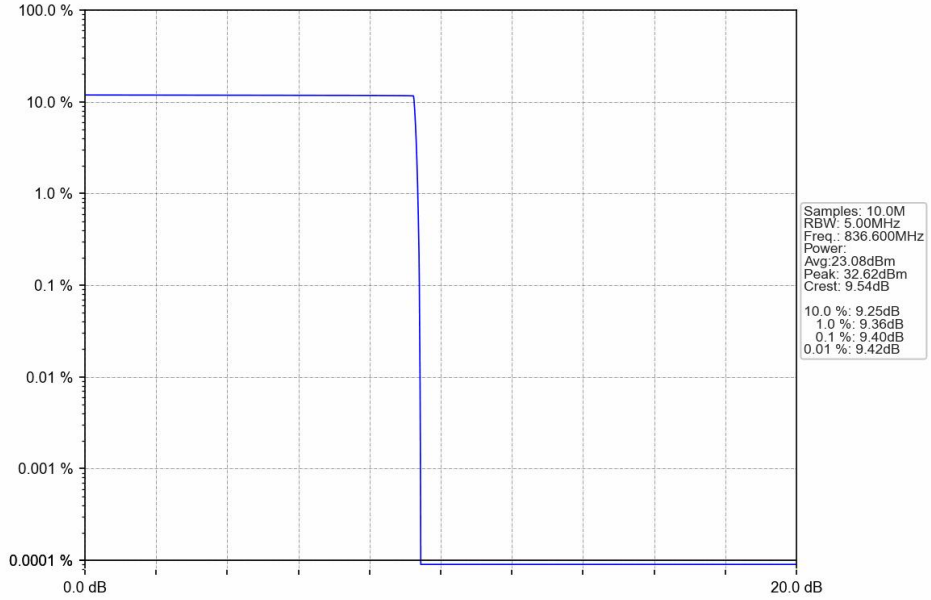
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.69	<=13	Pass
			836.6	9.40	<=13	Pass
			848.8	9.29	<=13	Pass
	GPRS	4 TX Slots	824.2	3.73	<=13	Pass
			836.6	3.68	<=13	Pass
			848.8	3.78	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.39	<=13	Pass
			836.6	9.02	<=13	Pass
			848.8	8.84	<=13	Pass

5.1.2 Test Graph

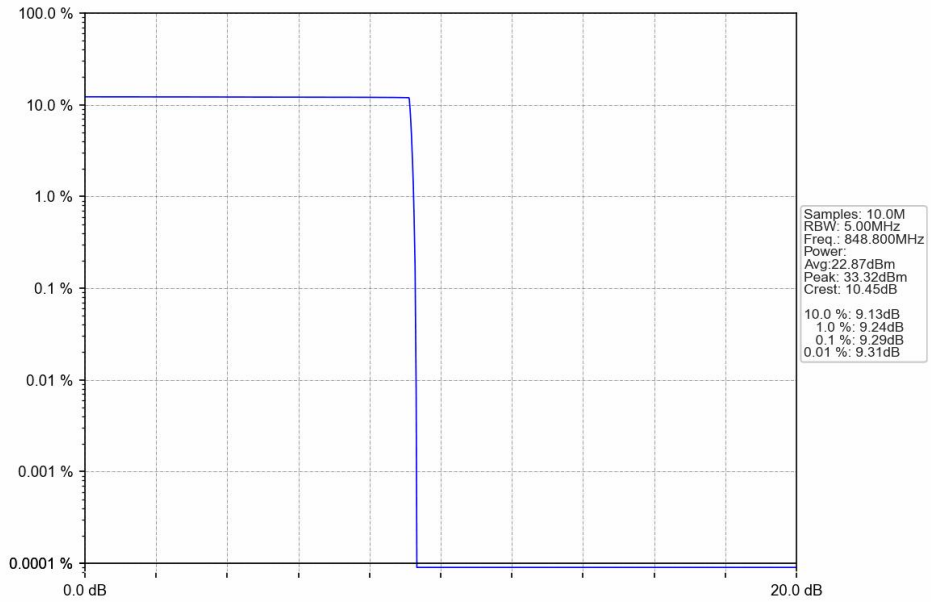
GSM850_GSM_LCH_824.2MHz_GSM_NTNV



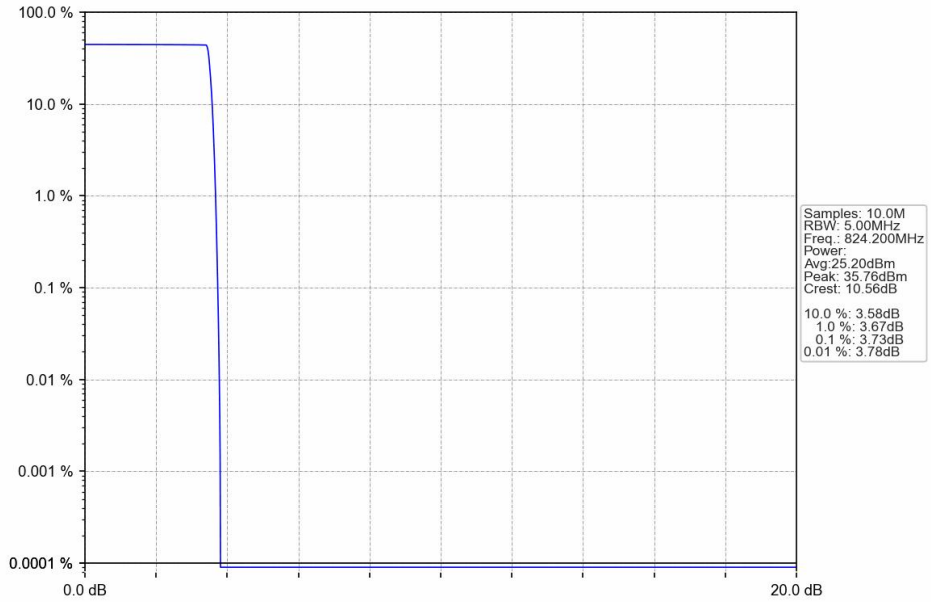
GSM850_GSM_MCH_836.6MHz_GSM_NTNV



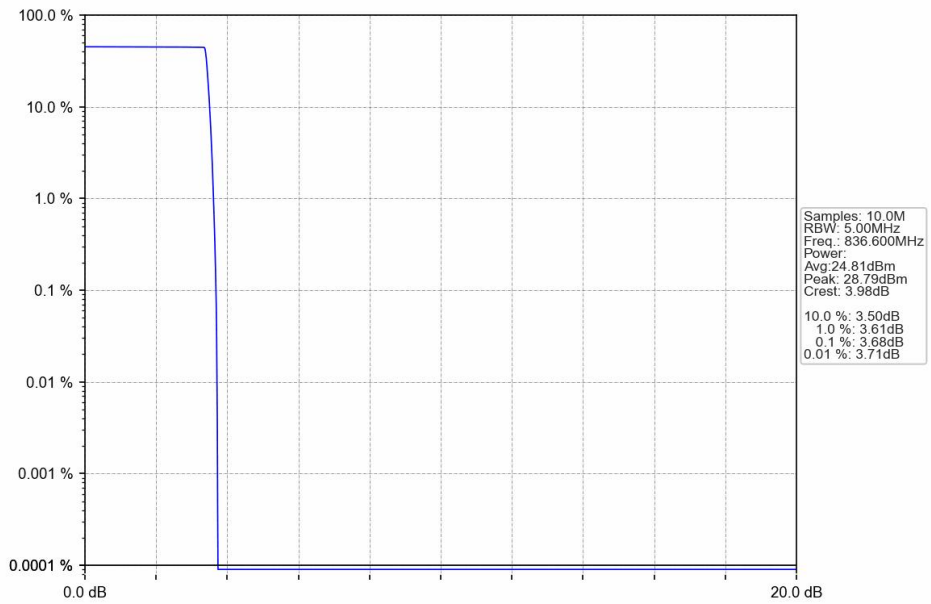
GSM850_GSM_HCH_848.8MHz_GSM_NTNV



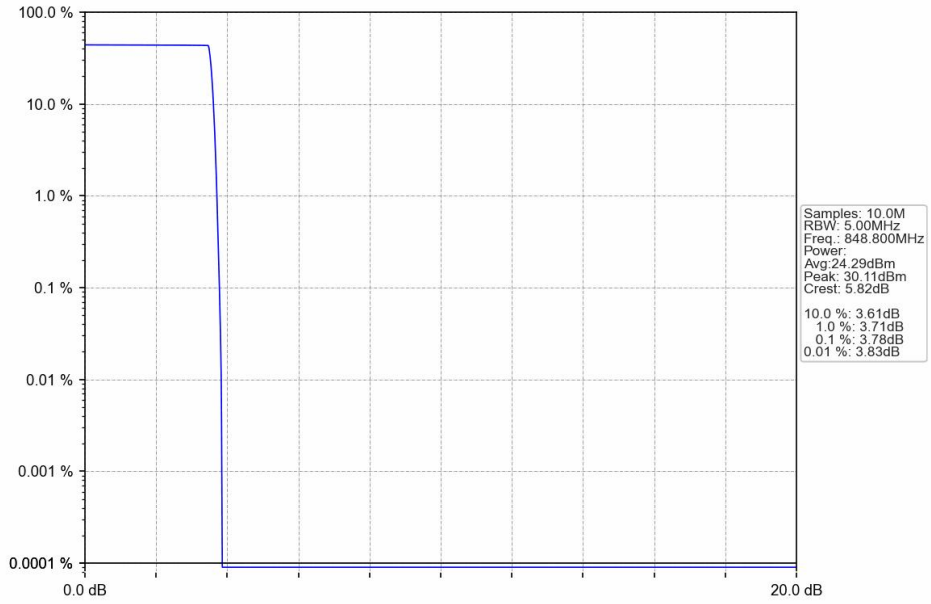
GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



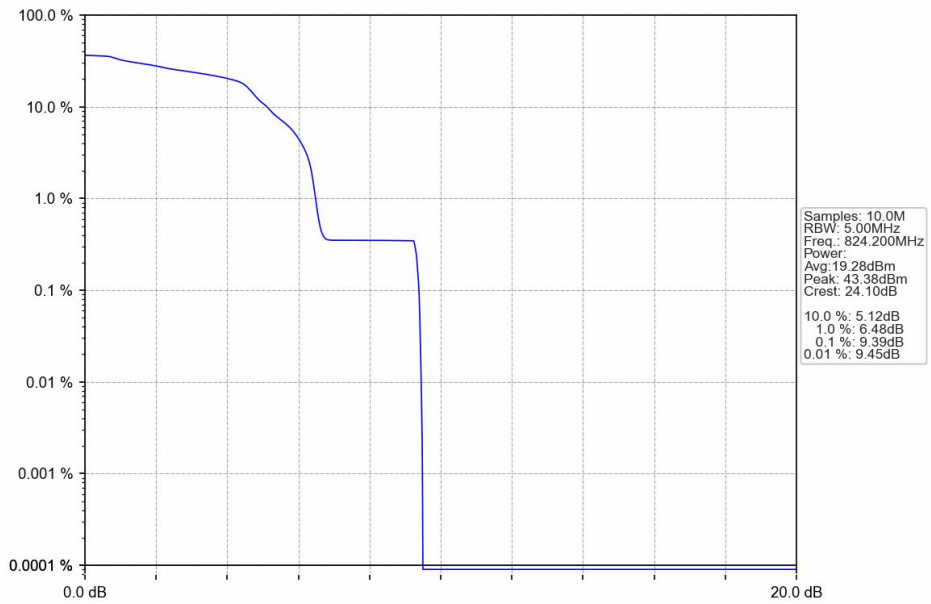
GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



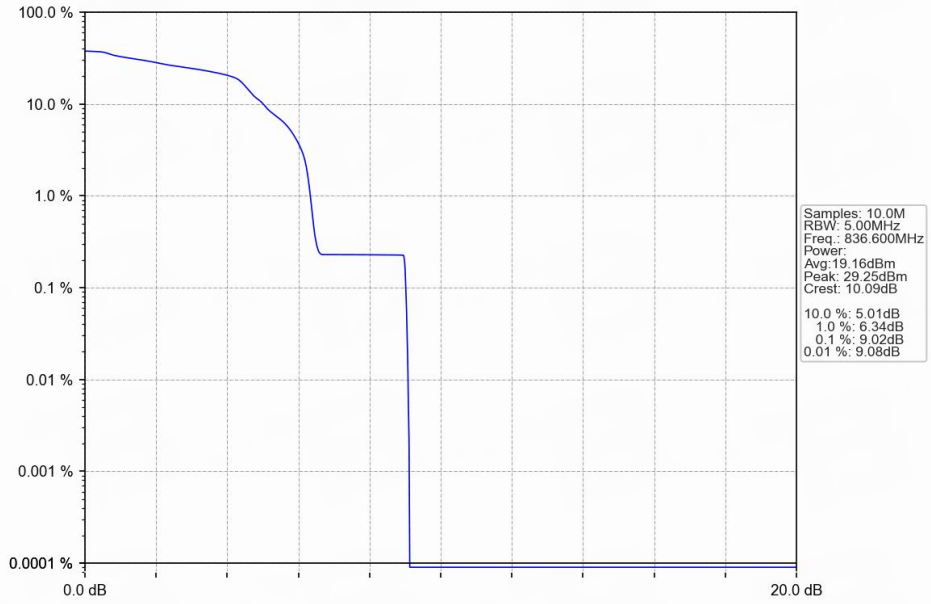
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



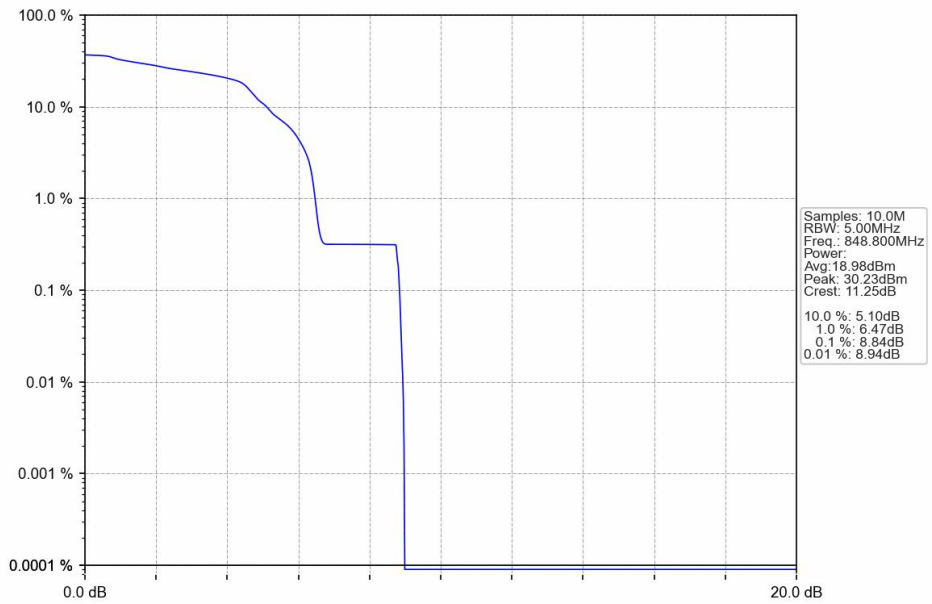
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



6. Spurious Emission

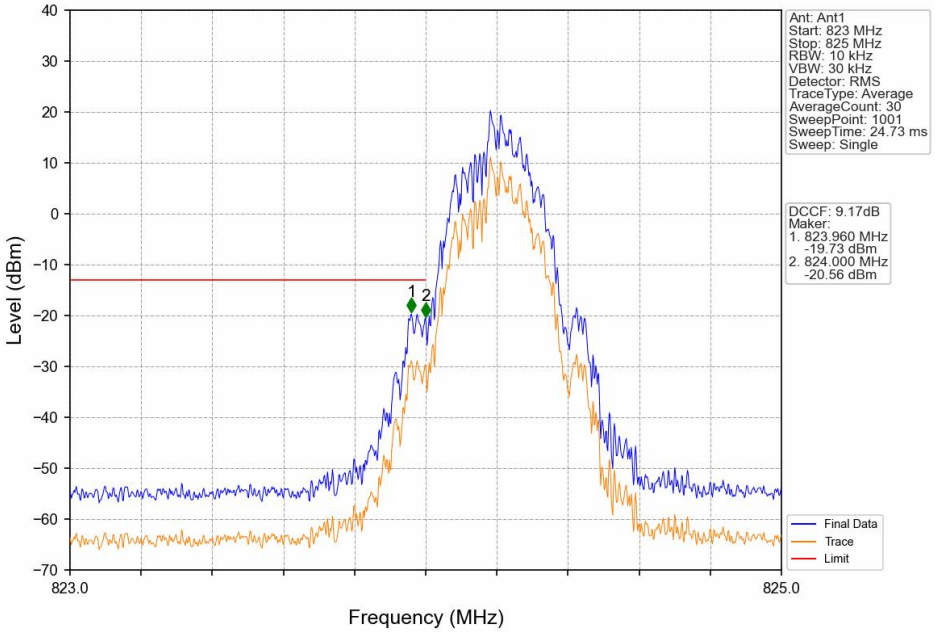
6.1 GSM850

6.1.1 Test Result

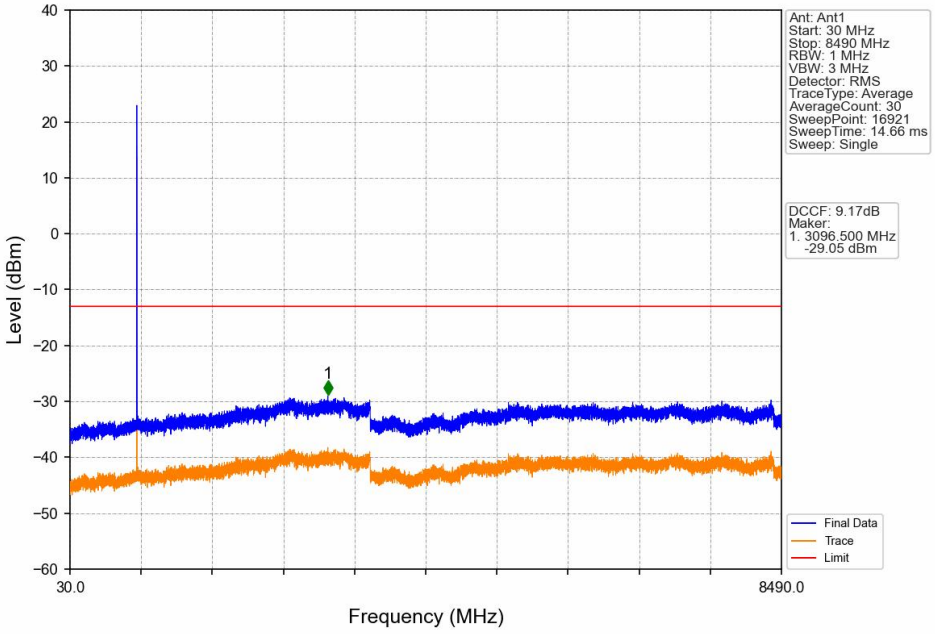
Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass
	GPRS	1 TX Slot	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass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

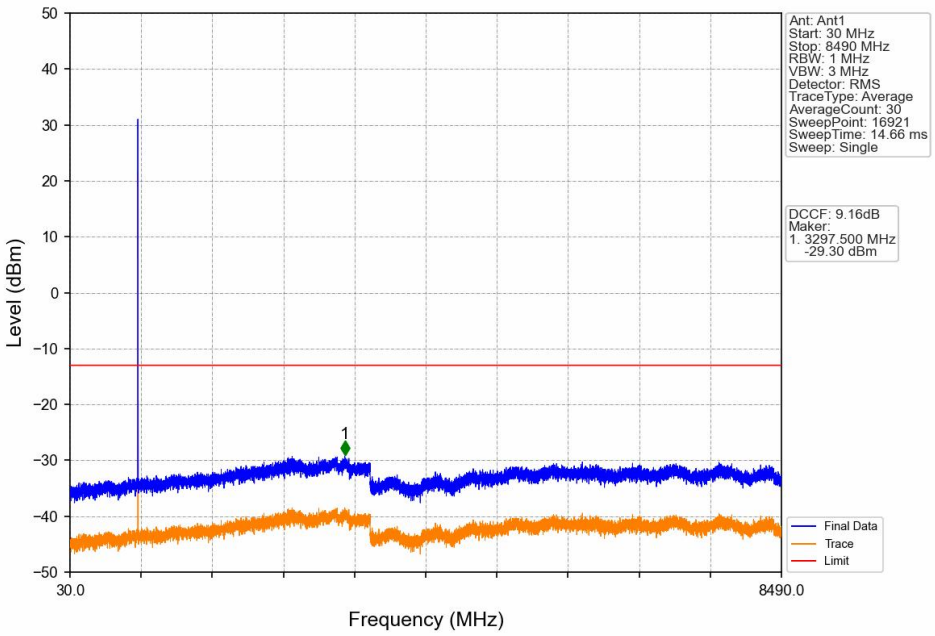
GSM850_GSM_LCH_824.2MHz_GSM_NTNV



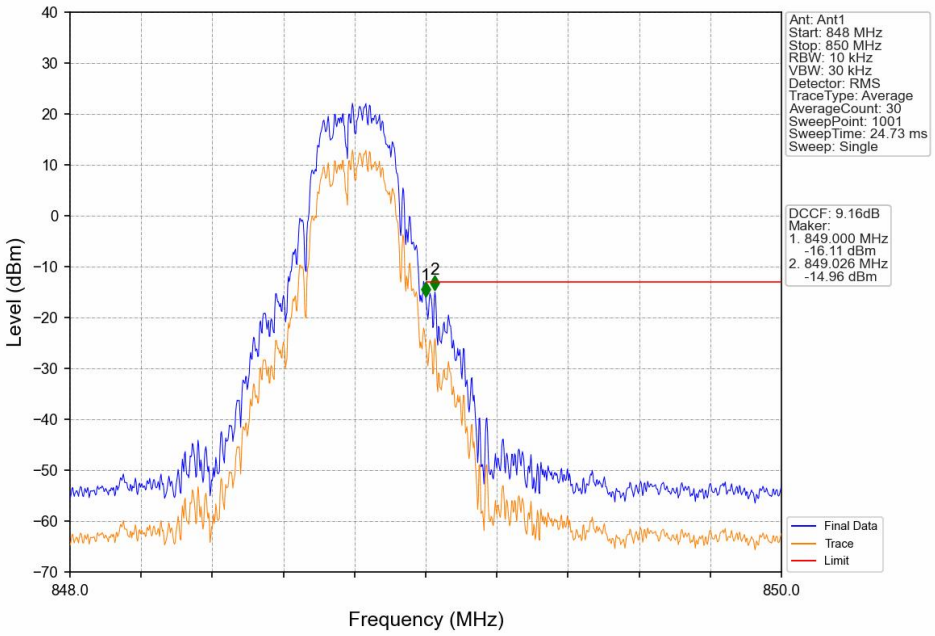
GSM850_GSM_LCH_824.2MHz_GSM_NTNV



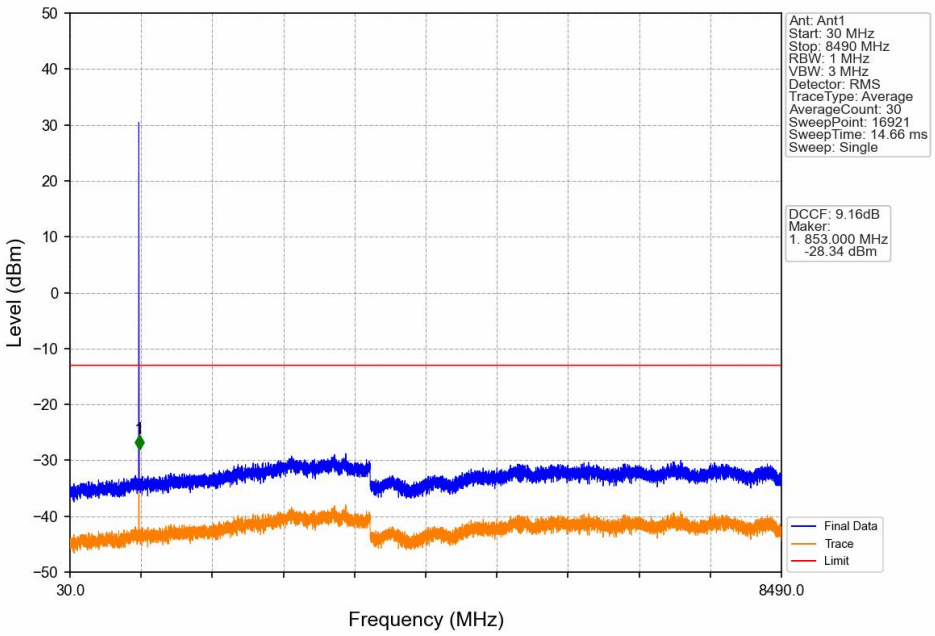
GSM850_GSM_MCH_836.6MHz_GSM_NTNV



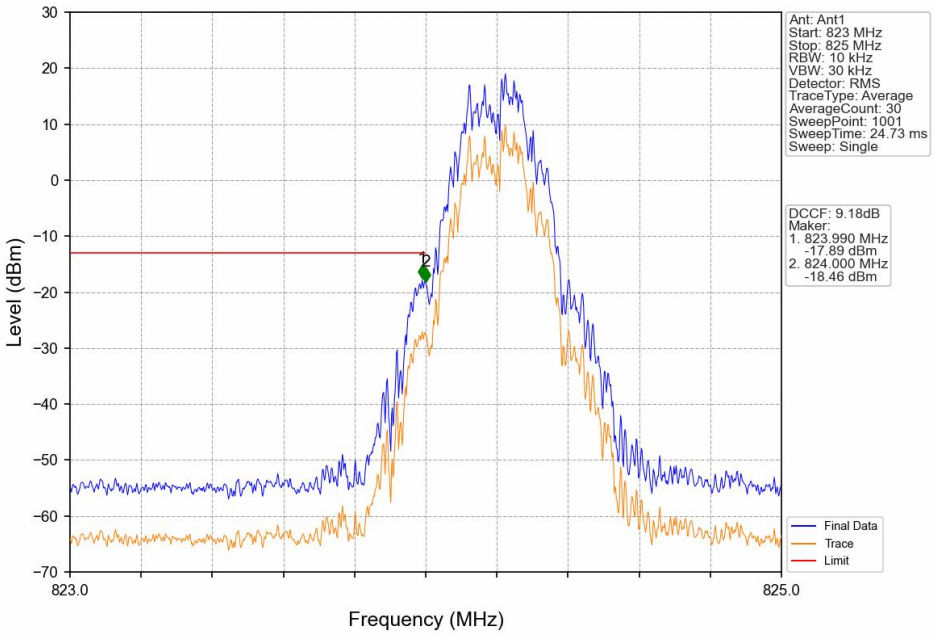
GSM850_GSM_HCH_848.8MHz_GSM_NTNV



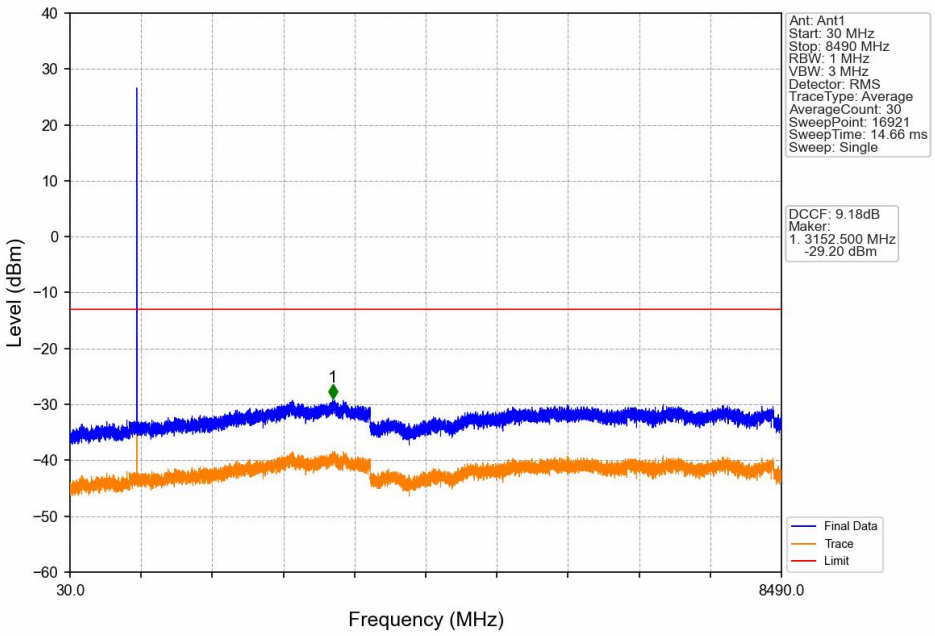
GSM850_GSM_HCH_848.8MHz_GSM_NTNV



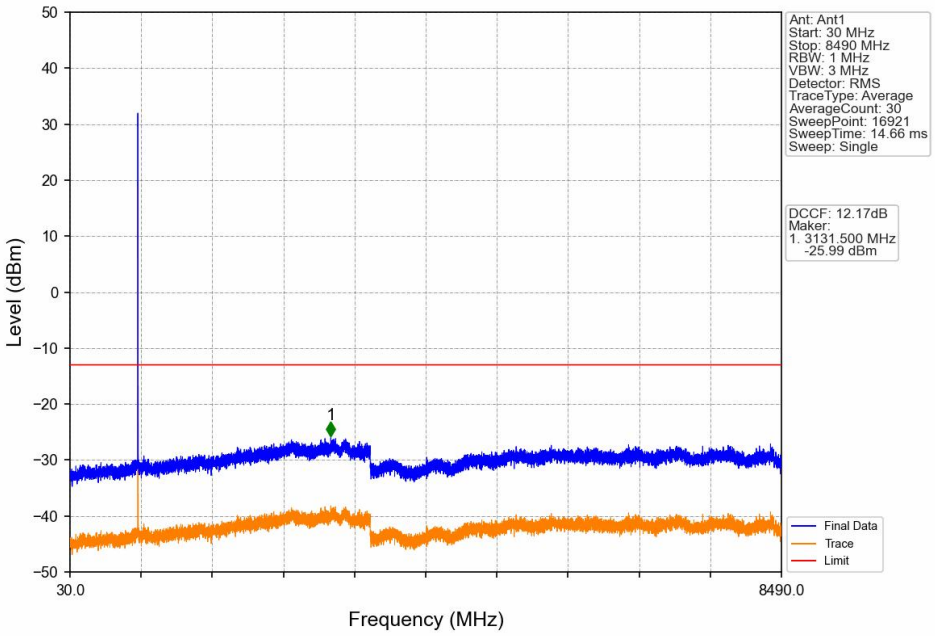
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



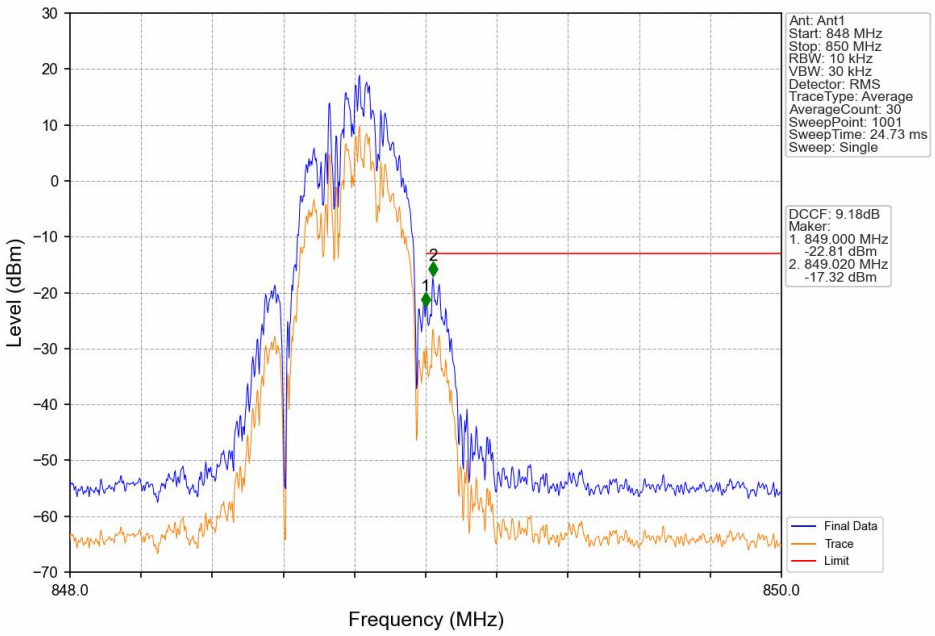
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



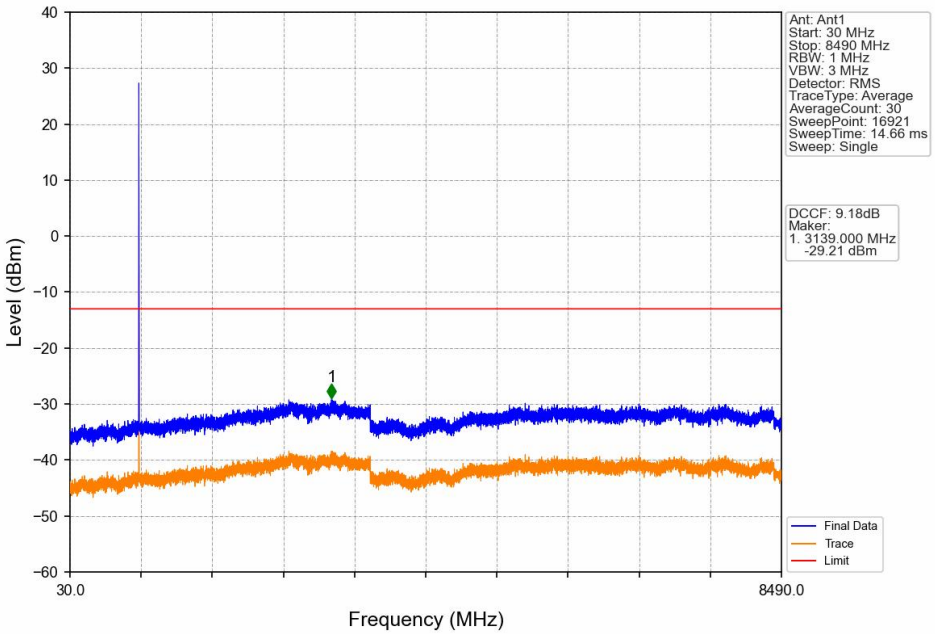
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



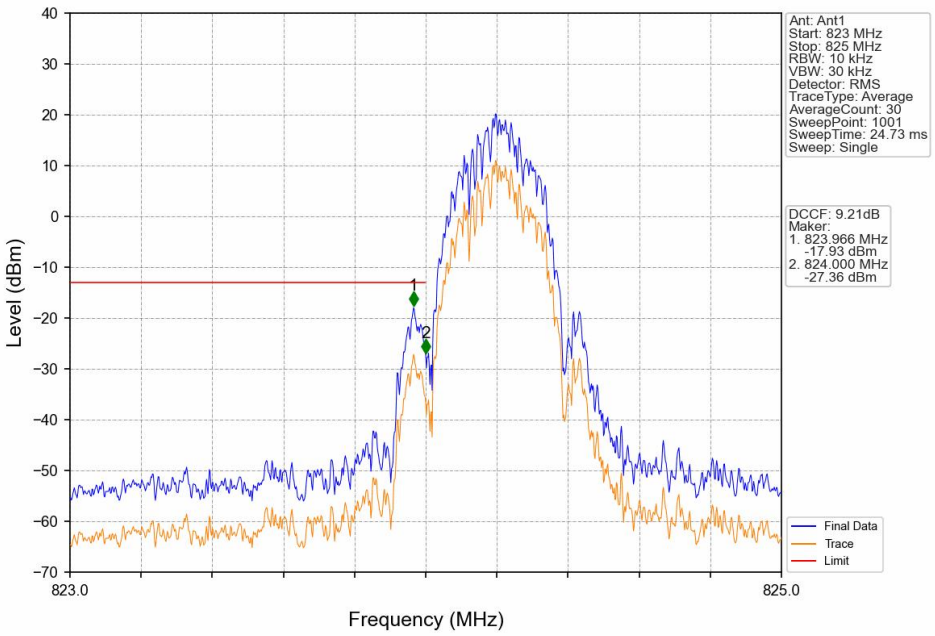
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



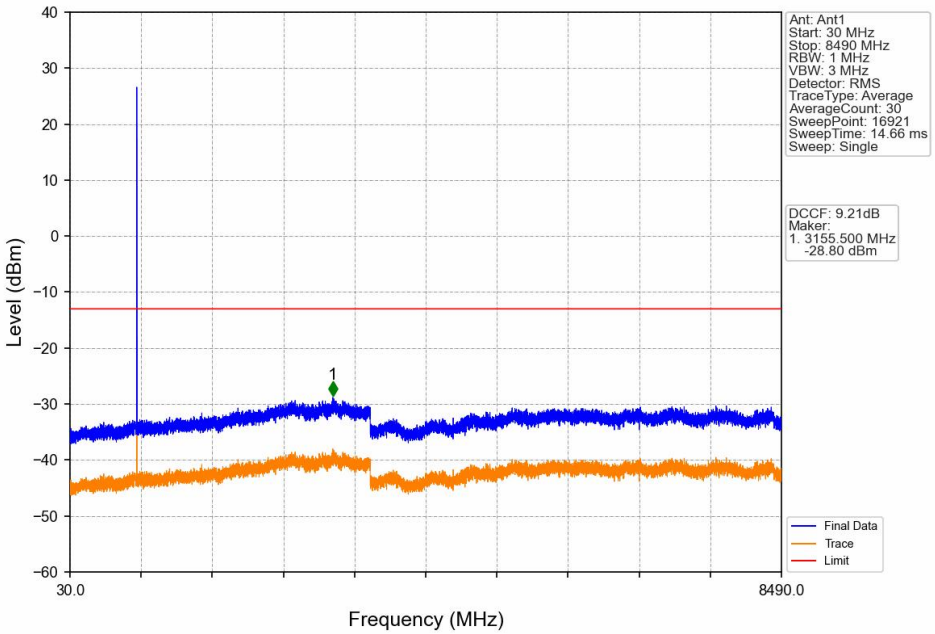
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



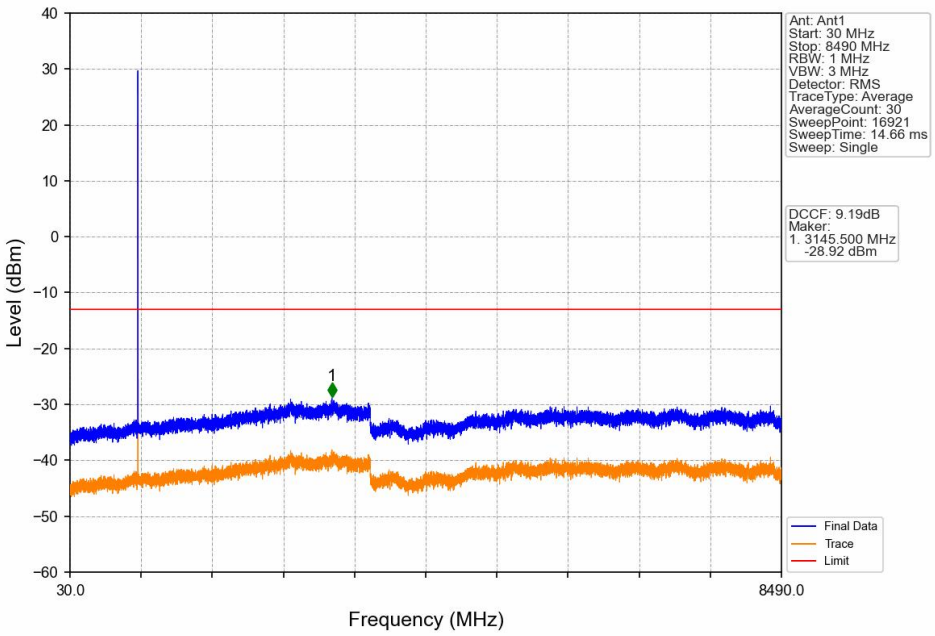
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



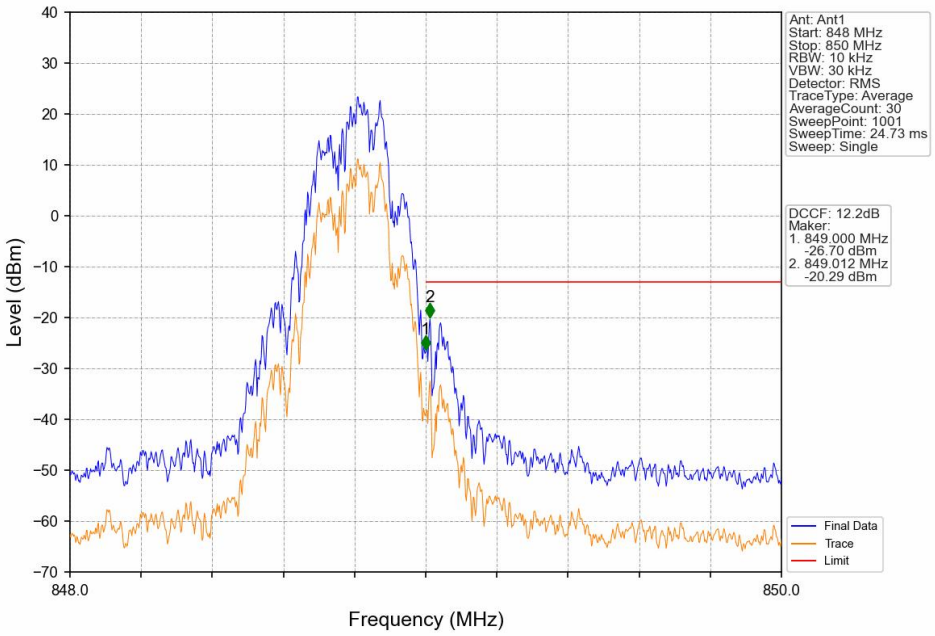
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



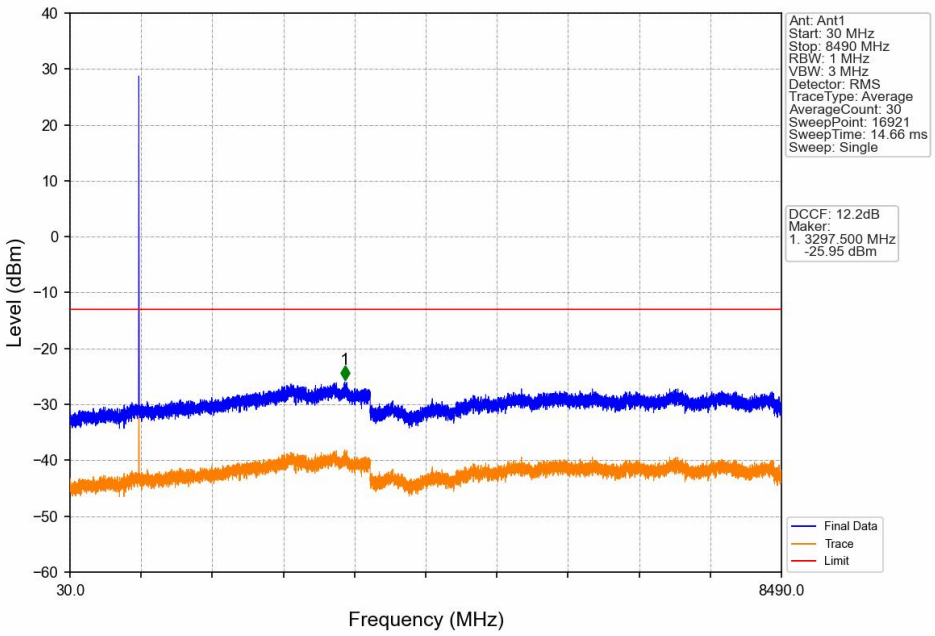
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



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	1.1749	0.0279	ppm	252KGXW	22H	30.70
GSM850	0.2	824.2	848.8	0.4529	0.0205	ppm	249KG7W	22H	26.56

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	0.6081	0.0279	ppm	252KGXW	22H	27.84
GSM850	0.2	824.2	848.8	0.2344	0.0205	ppm	249KG7W	22H	23.70