

## Appendix A for KSEM210400048201-Band EGSM850

## 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

Test Mode		Test Band: GSM850								Limit (dBm)	Verdict
		Conducted Power (dBm)			Antenna gain		ERP(dBm)				
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
EGPRS	1 TX Slot	22.24	22.46	22.96	-0.15	2.00	22.09	22.31	22.81	38.45	PASS
	2 TX Slots	21.94	22.09	22.23	-0.15	2.00	21.79	21.94	22.08	38.45	PASS
	3 TX Slots	20.93	20.65	20.45	-0.15	2.00	20.78	20.50	20.30	38.45	PASS
	4 TX Slots	19.62	19.24	18.90	-0.15	2.00	19.47	19.09	18.75	38.45	PASS
GPRS	1 TX Slot	22.32	22.53	23.09	-0.15	2.00	22.17	22.38	22.94	38.45	PASS
	2 TX Slots	22.00	22.17	22.40	-0.15	2.00	21.85	22.02	22.25	38.45	PASS
	3 TX Slots	21.04	20.77	20.57	-0.15	2.00	20.89	20.62	20.42	38.45	PASS
	4 TX Slots	19.73	19.36	19.03	-0.15	2.00	19.58	19.21	18.88	38.45	PASS

## Note:

- 1) dBd = dBi - 2.15
- 2) EIRP = Conducted output power + Antenna gain (dBi)
- 3) ERP = Conducted output power + Antenna gain (dBd)

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## 2. Frequency stability

### 2.1 Test Result

Test Band: GSM850 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NT	LV	-17.1438	-19.3392	-15.9492	-0.0208	-0.0231	-0.0188	2.50	PASS
		NV	-16.2398	-17.8218	-15.2712	-0.0197	-0.0213	-0.0180	2.50	PASS
		HV	-16.9501	-16.3366	-14.4964	-0.0206	-0.0195	-0.0171	2.50	PASS
GPRS	NT	LV	10.2023	-18.3706	-17.5958	0.0124	-0.0220	-0.0207	2.50	PASS
		NV	-6.3603	-19.4684	-17.3375	-0.0077	-0.0233	-0.0204	2.50	PASS
		HV	-13.8506	-16.5626	-16.4658	-0.0168	-0.0198	-0.0194	2.50	PASS

Test Band: GSM850 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NV	-30.00	-16.8855	-18.9518	-17.8541	-0.0205	-0.0227	-0.0210	2.50	PASS
		-20.00	-15.0452	-15.6909	-15.2389	-0.0183	-0.0188	-0.0180	2.50	PASS
		-10.00	-17.3698	-14.8192	-17.4666	-0.0211	-0.0177	-0.0206	2.50	PASS
		0.00	-14.2381	-18.2092	-16.5304	-0.0173	-0.0218	-0.0195	2.50	PASS
		10.00	-15.4326	-18.5644	-18.2415	-0.0187	-0.0222	-0.0215	2.50	PASS
		20.00	-17.6281	-18.8226	-17.1438	-0.0214	-0.0225	-0.0202	2.50	PASS
		30.00	-18.1124	-15.9492	-18.4675	-0.0220	-0.0191	-0.0218	2.50	PASS
		40.00	-17.0792	-16.3689	-17.4344	-0.0207	-0.0196	-0.0205	2.50	PASS
		50.00	-16.8209	-19.9849	-19.3069	-0.0204	-0.0239	-0.0227	2.50	PASS
		-30.00	-13.0435	-17.1115	-15.8201	-0.0158	-0.0205	-0.0186	2.50	PASS
GPRS	NV	-20.00	-13.8829	-18.1446	-15.3681	-0.0168	-0.0217	-0.0181	2.50	PASS
		-10.00	-13.0435	-16.5949	-13.3018	-0.0158	-0.0198	-0.0157	2.50	PASS
		0.00	-13.2372	-16.7241	-13.0758	-0.0161	-0.0200	-0.0154	2.50	PASS
		10.00	-13.8506	-16.4658	-16.9501	-0.0168	-0.0197	-0.0200	2.50	PASS
		20.00	-12.9143	-15.2389	-12.3655	-0.0157	-0.0182	-0.0146	2.50	PASS
		30.00	-18.4675	-16.0784	-13.5601	-0.0224	-0.0192	-0.0160	2.50	PASS
		40.00	-20.2109	-16.3044	-16.3366	-0.0245	-0.0195	-0.0192	2.50	PASS
		50.00	-18.5321	-15.3035	-15.1421	-0.0225	-0.0183	-0.0178	2.50	PASS

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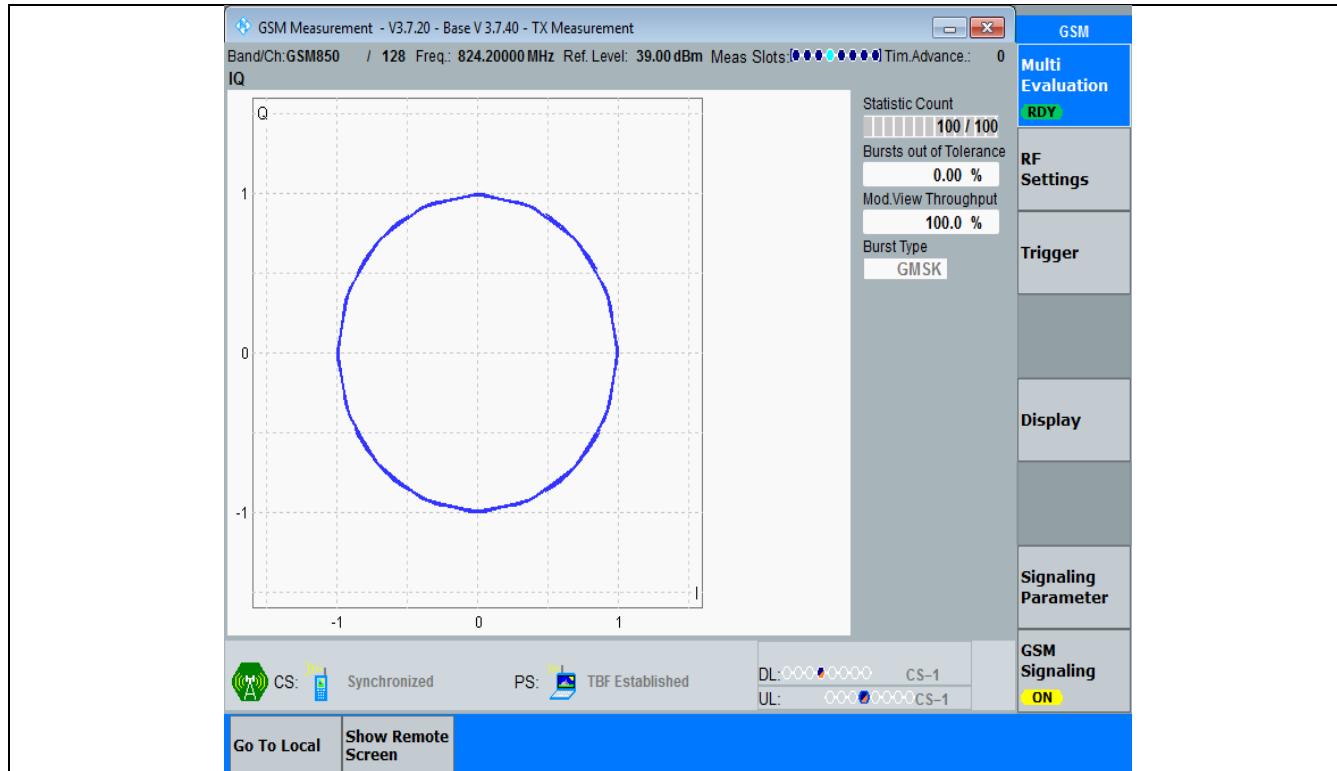


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### 3. Modulation Characteristics

#### 3.1 Test Graph



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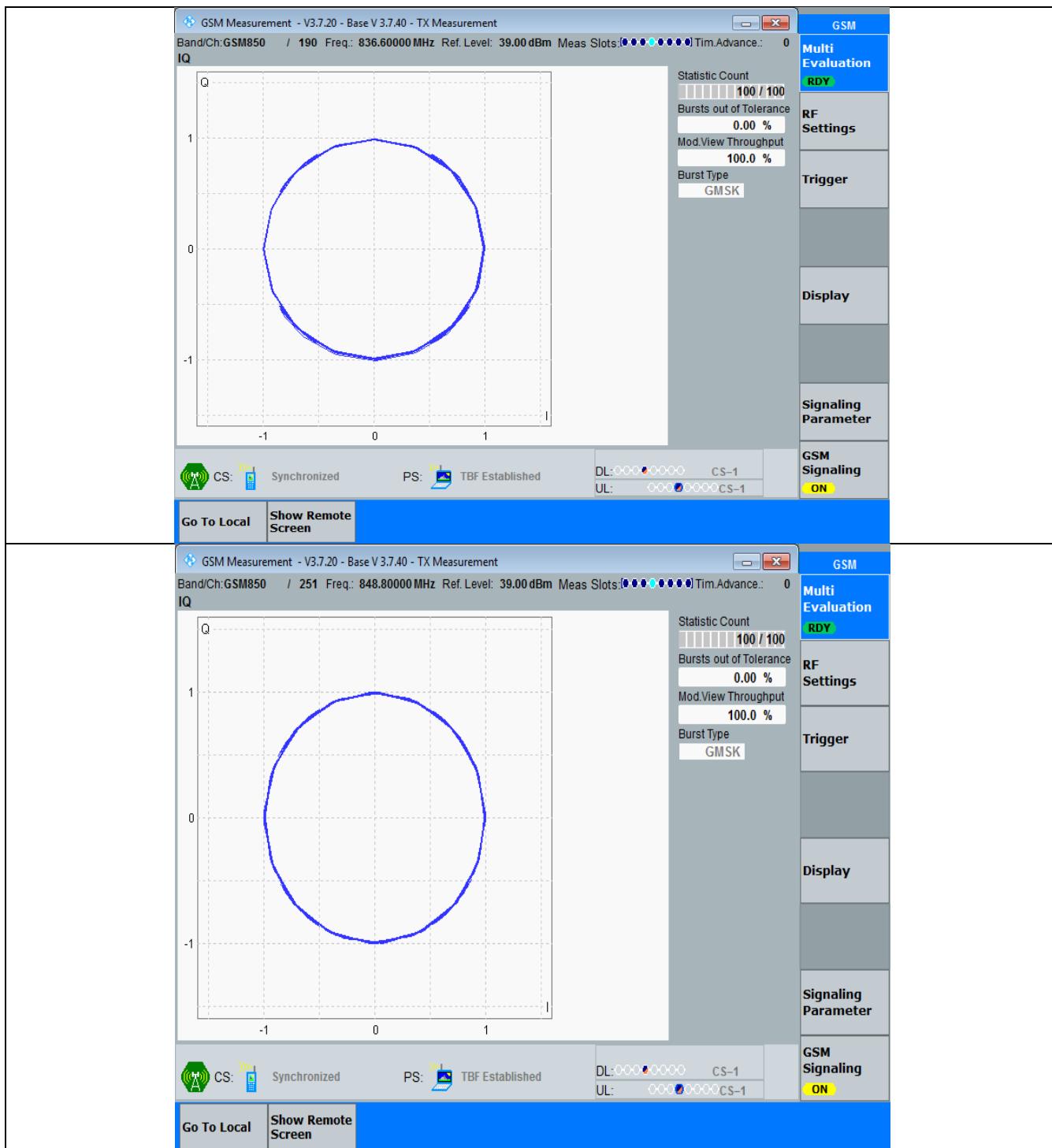
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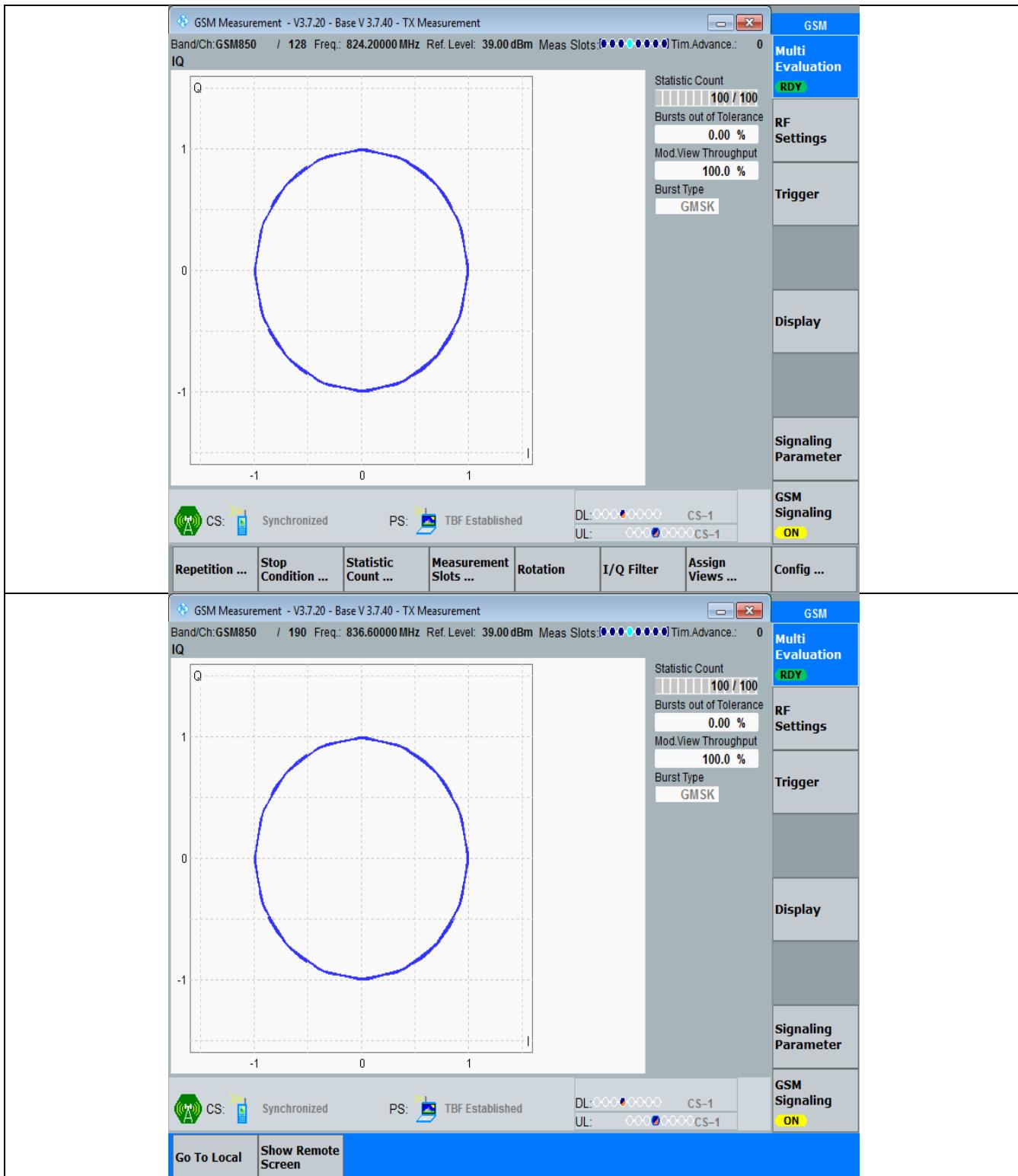
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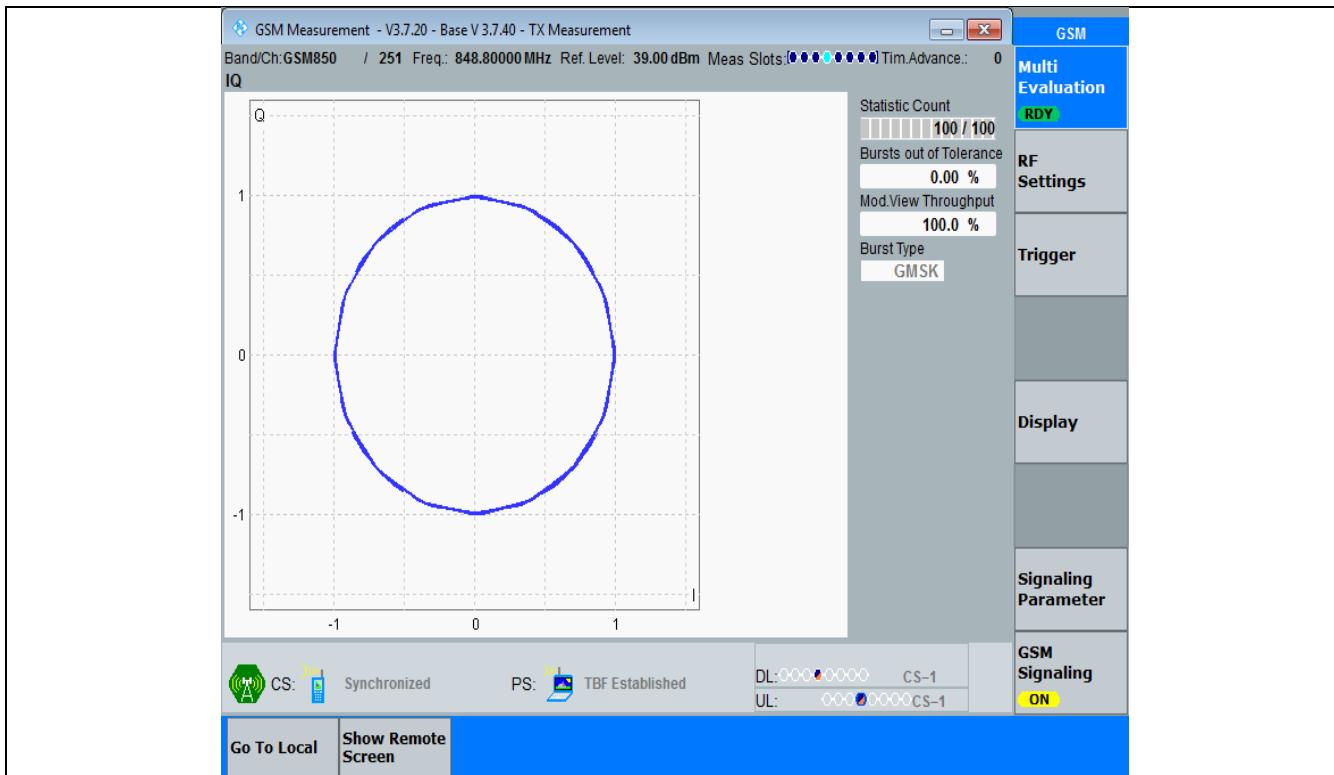
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## 4. 99% & 26dB Bandwidth

### 4.1 Test Result

Test Mode	Test Band: GSM850			Limit	Verdict		
	99% Occupied Bandwidth (MHz)						
	LCH	MCH	HCH				
EGPRS	0.241	0.244	0.245	N/A	PASS		
GPRS	0.247	0.246	0.241	N/A	PASS		

### 4.2 Test Graph



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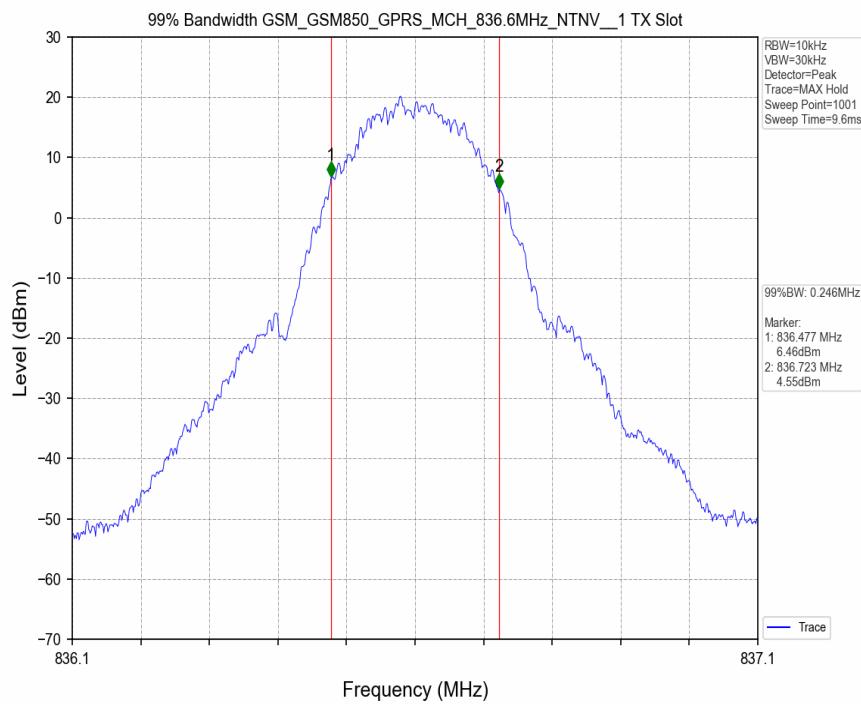
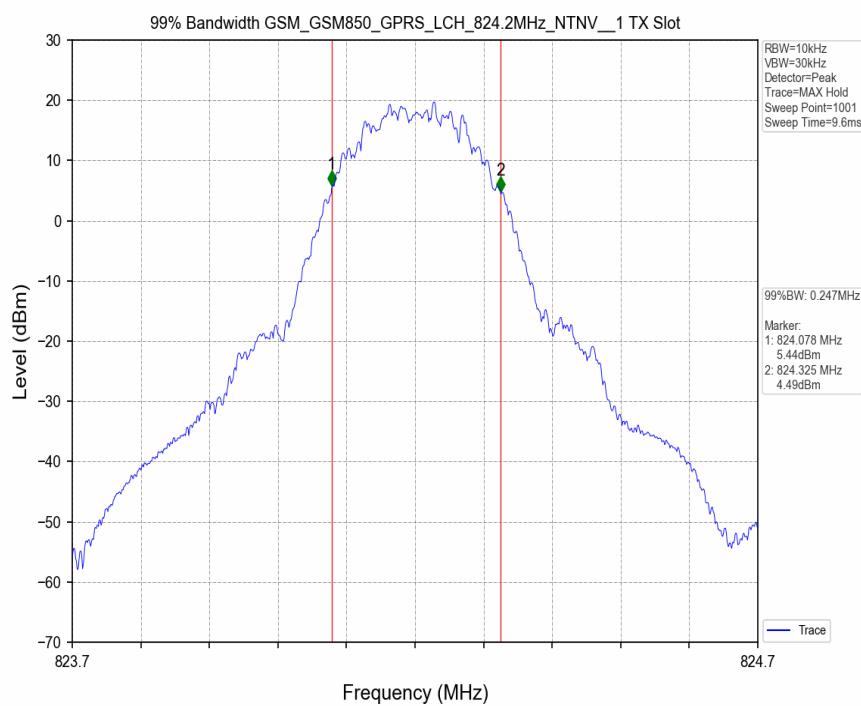
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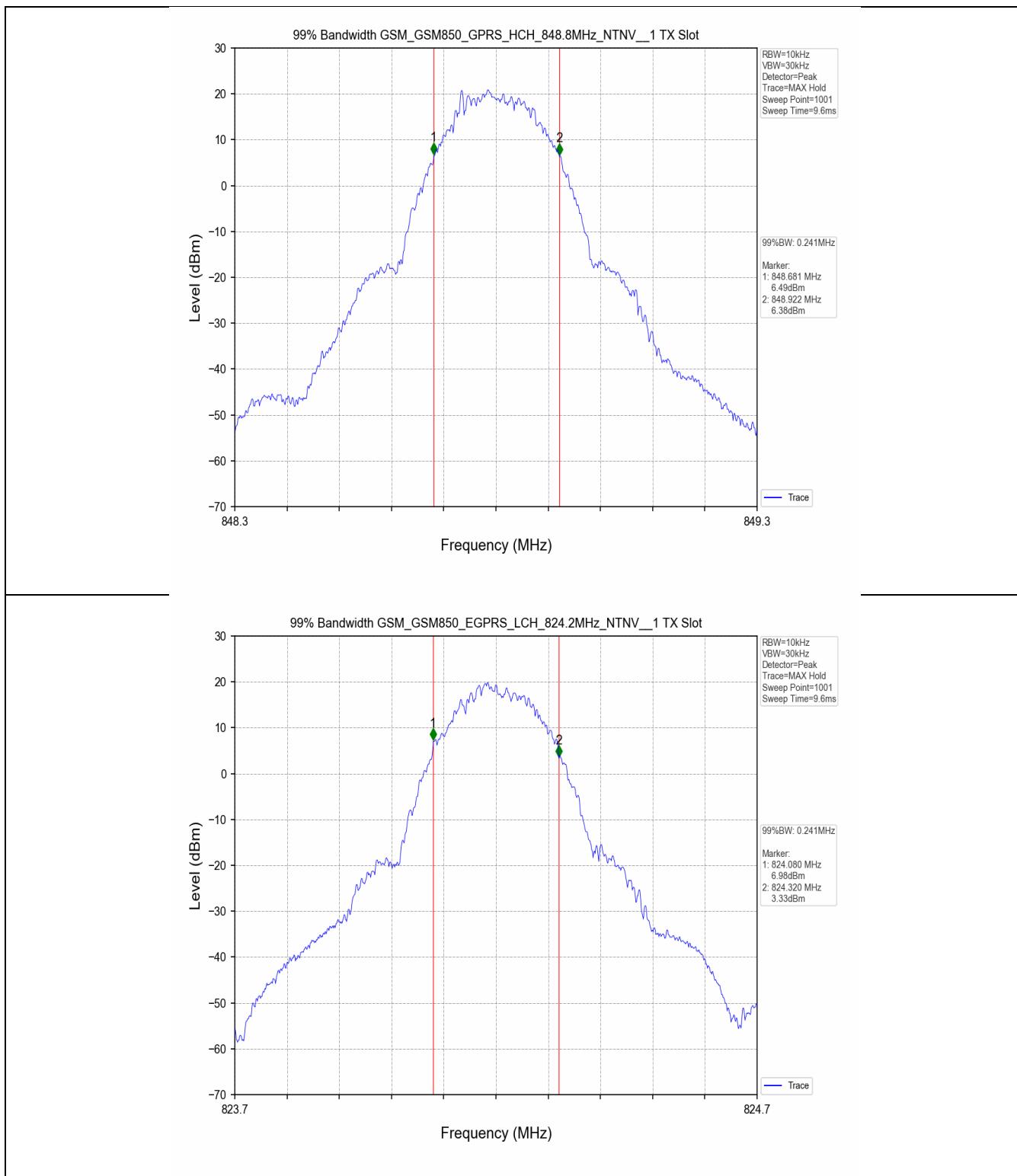
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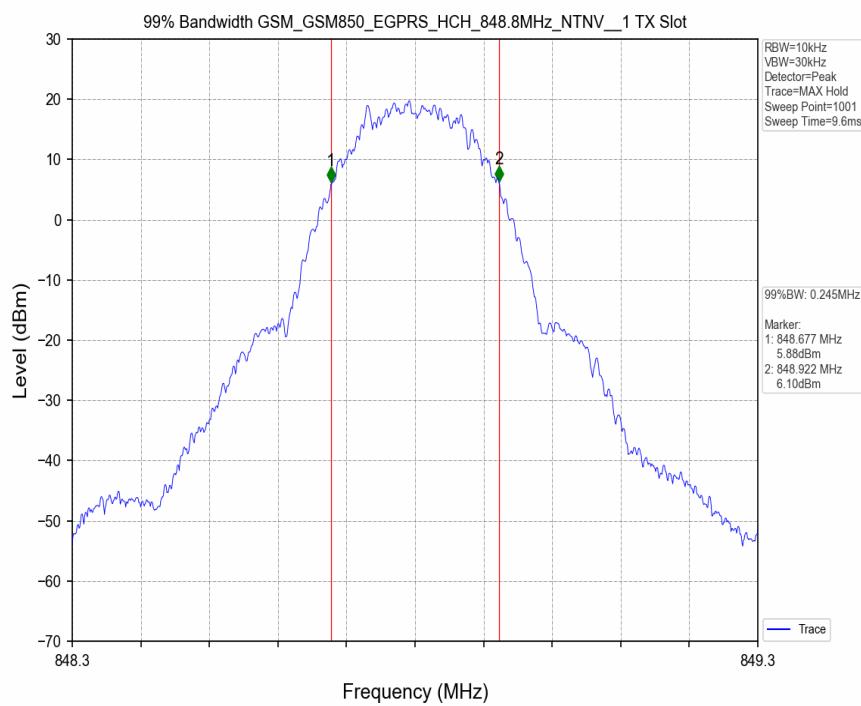
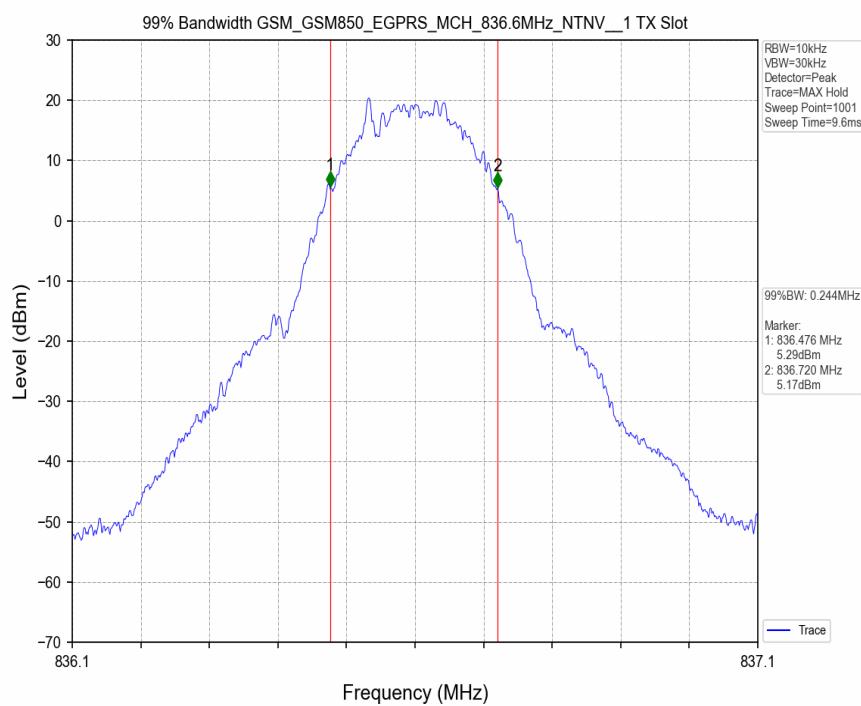




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	26dB Bandwidth (MHz)						
	LCH	MCH	HCH				
EGPRS	0.314	0.313	0.316	N/A	PASS		
GPRS	0.314	0.319	0.321	N/A	PASS		



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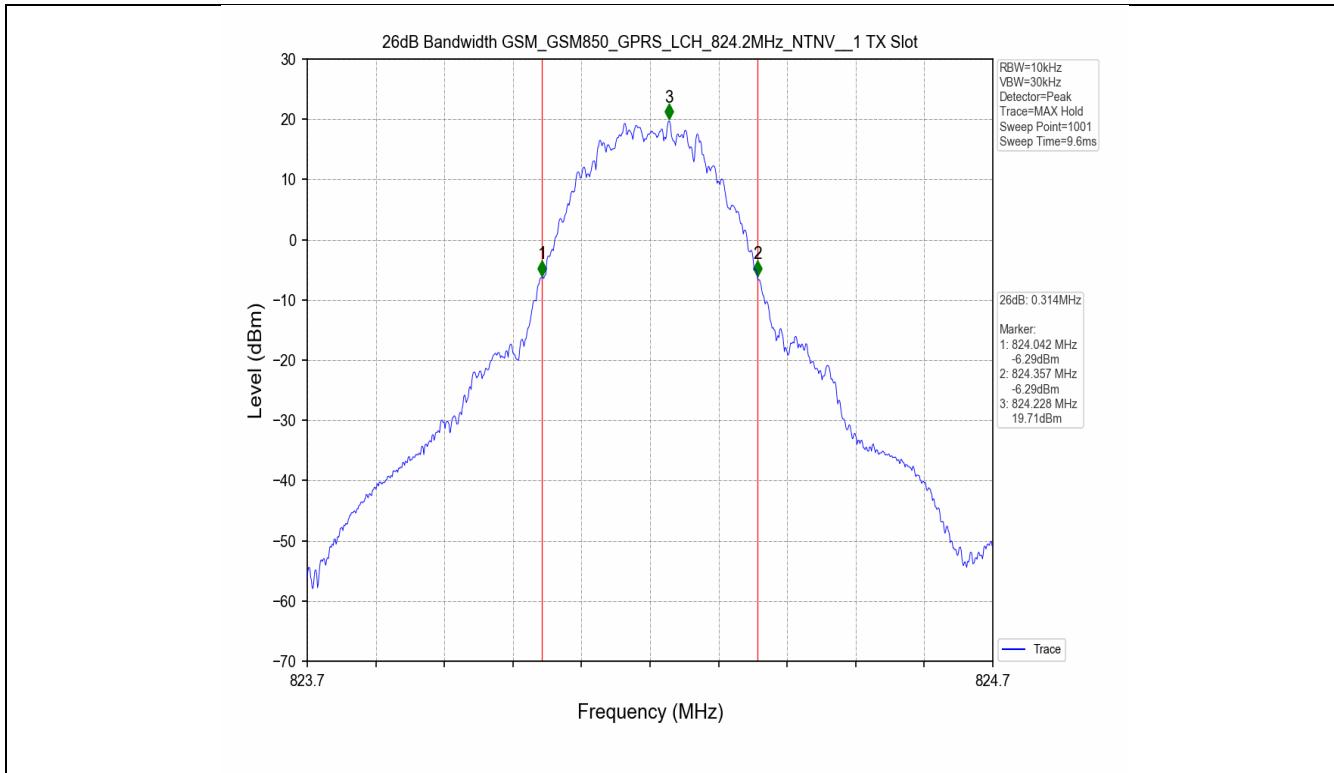
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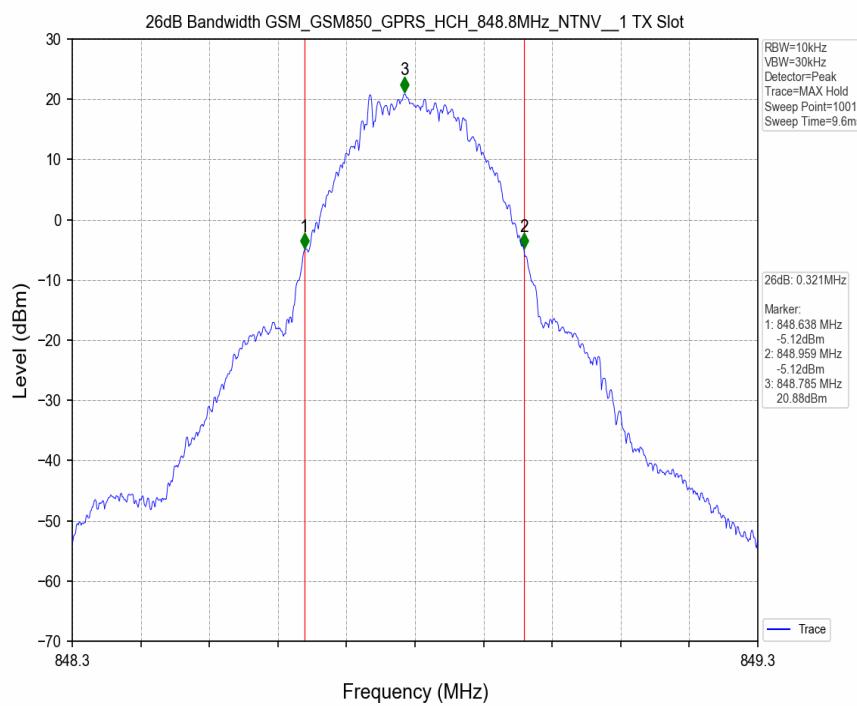
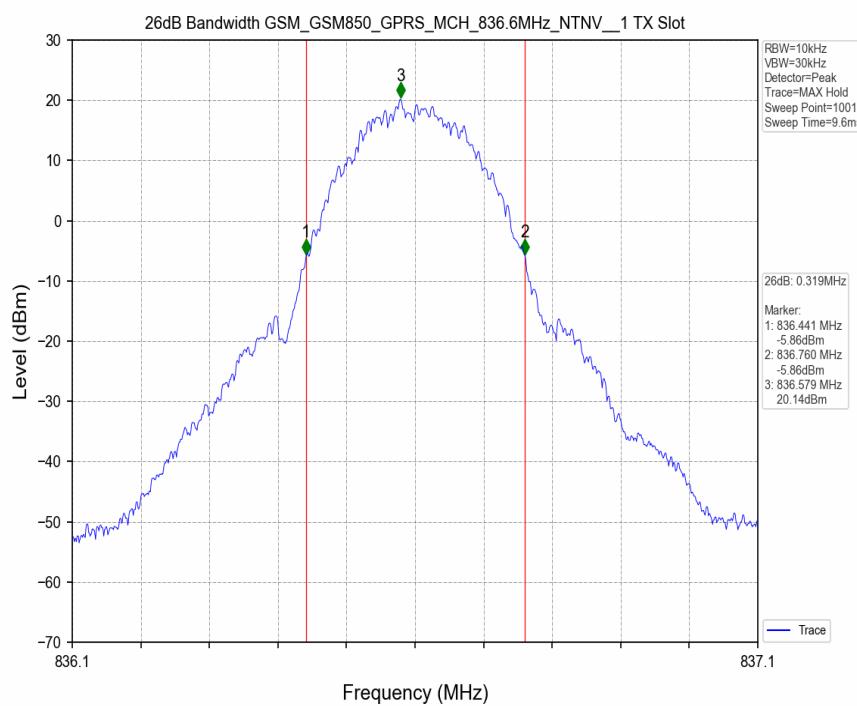
## 4.2 Test Graph



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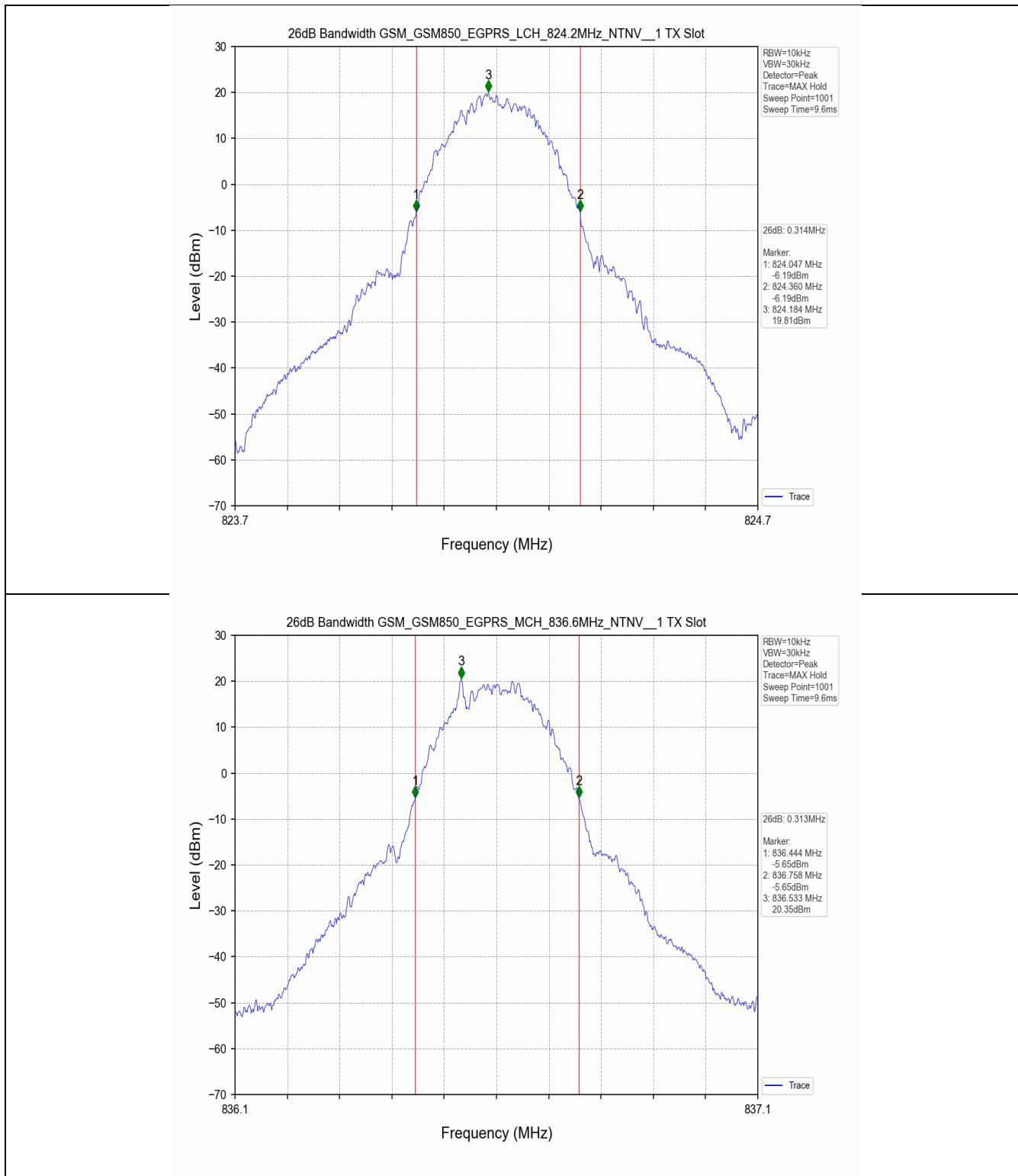




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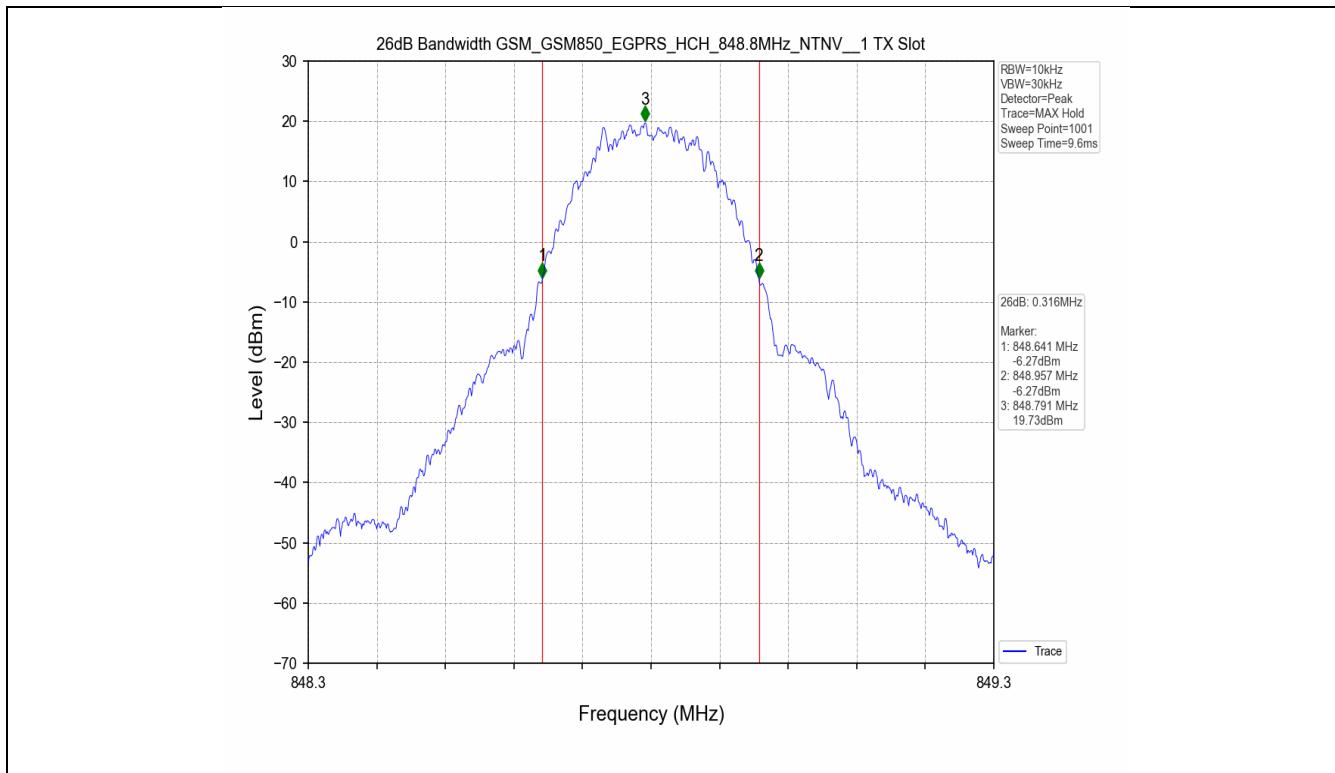




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## 5. Peak-Average Ratio

### 5.1 Test Result

Test Mode	Test Band: GSM850			Limit (dB)	Verdict		
	Test result (dB)						
	LCH	MCH	HCH				
EGPRS	9.60	9.52	9.71	13	PASS		
GPRS	8.40	9.71	12.10	13	PASS		

### 5.2 Test Graph



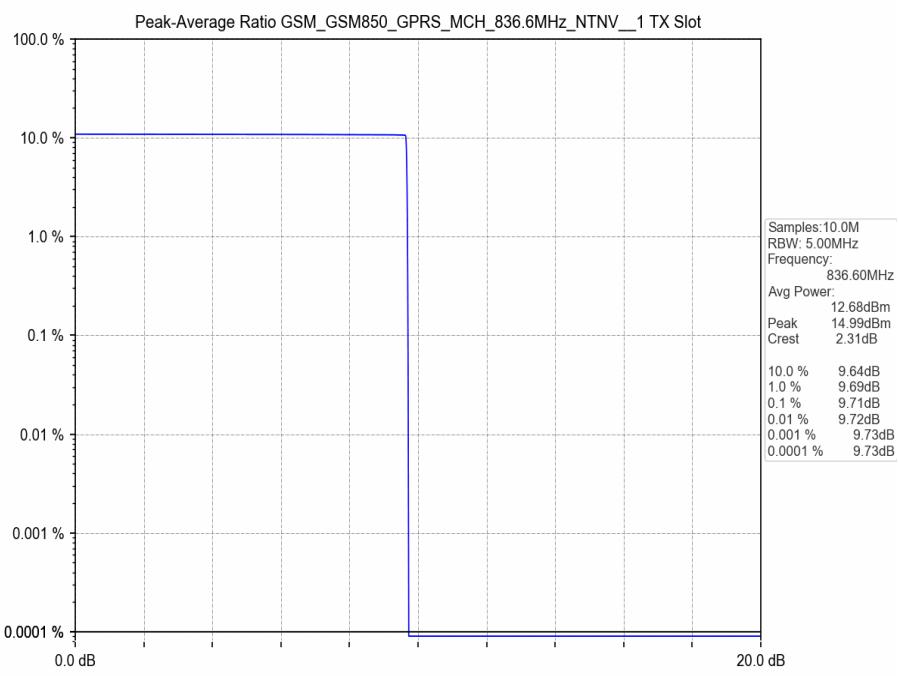
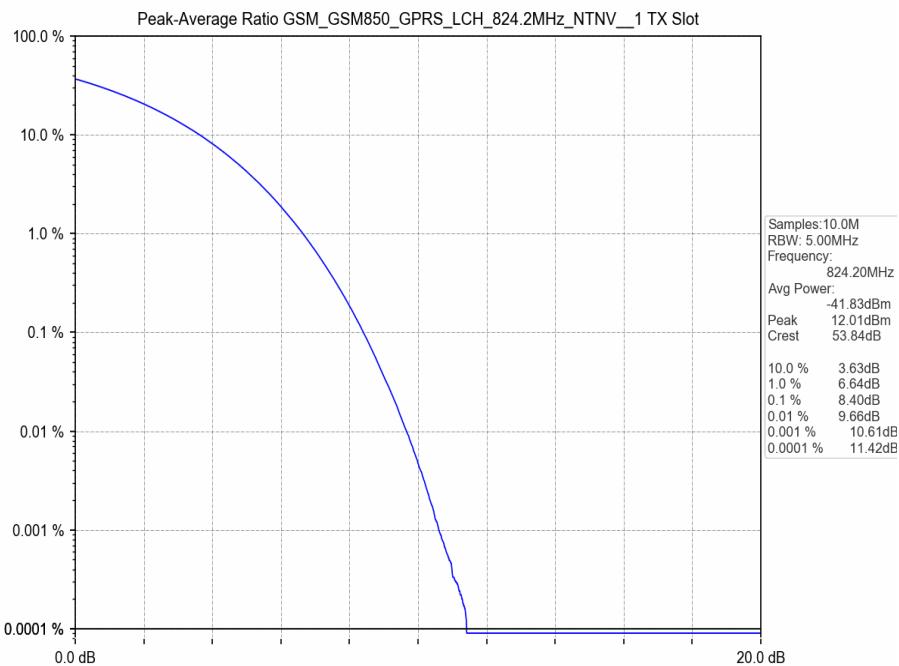
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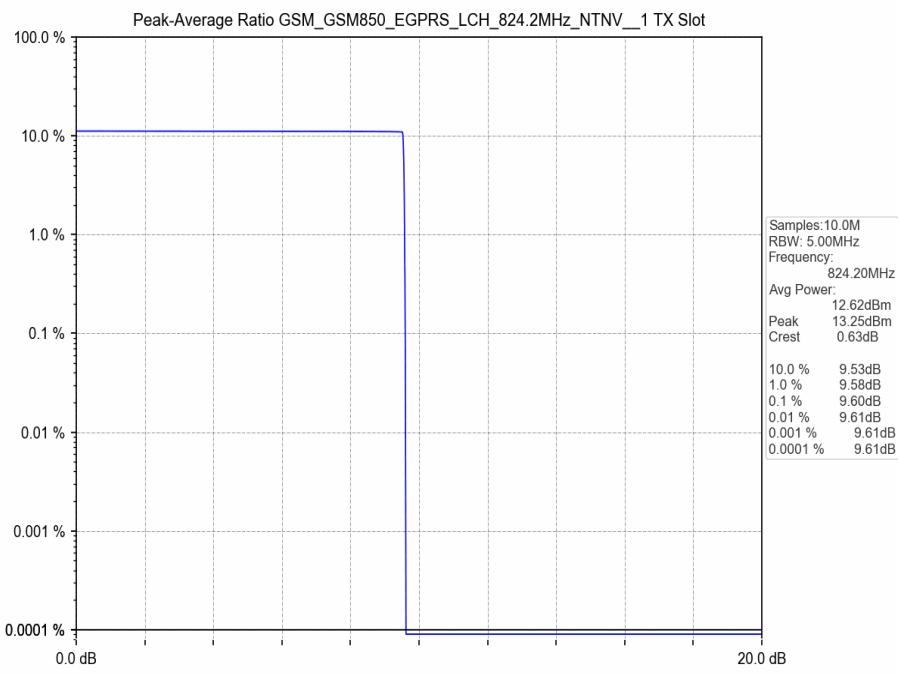
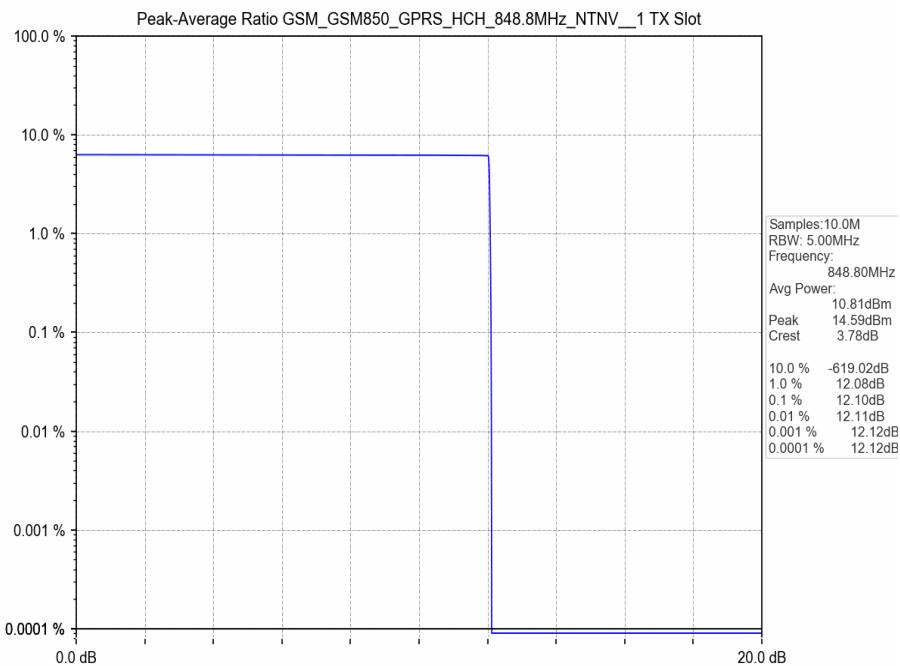


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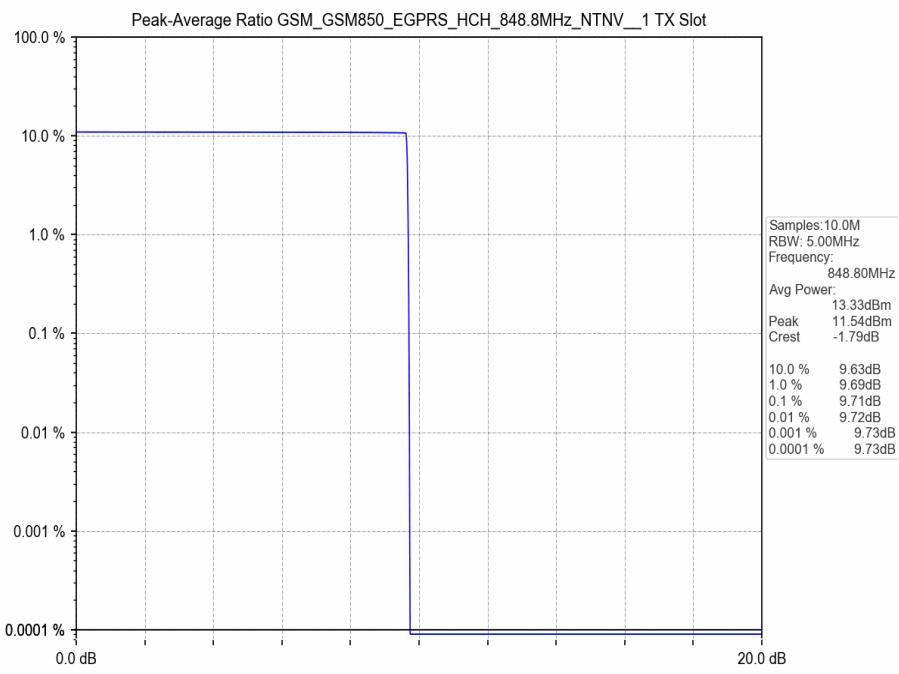
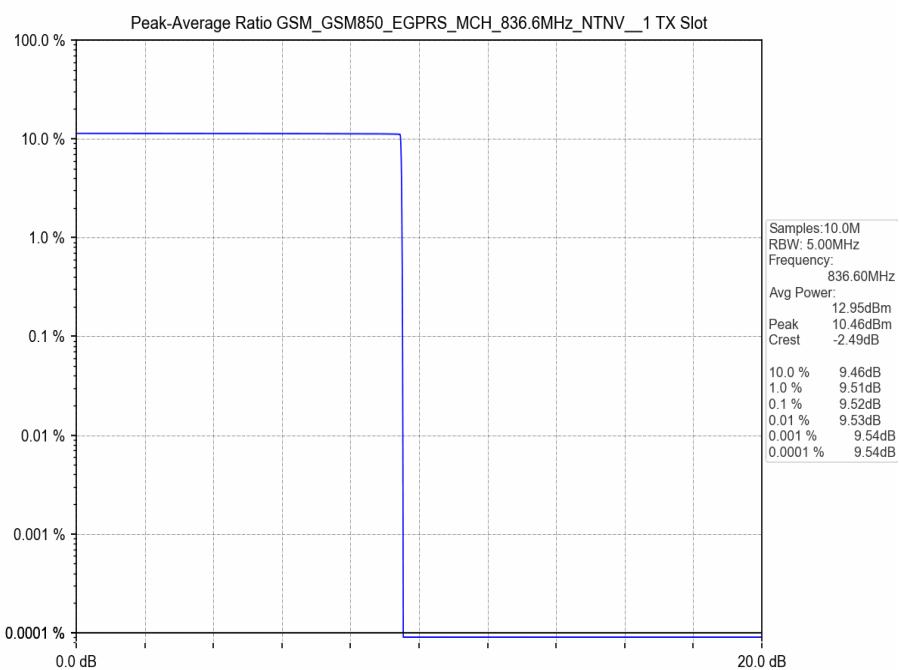


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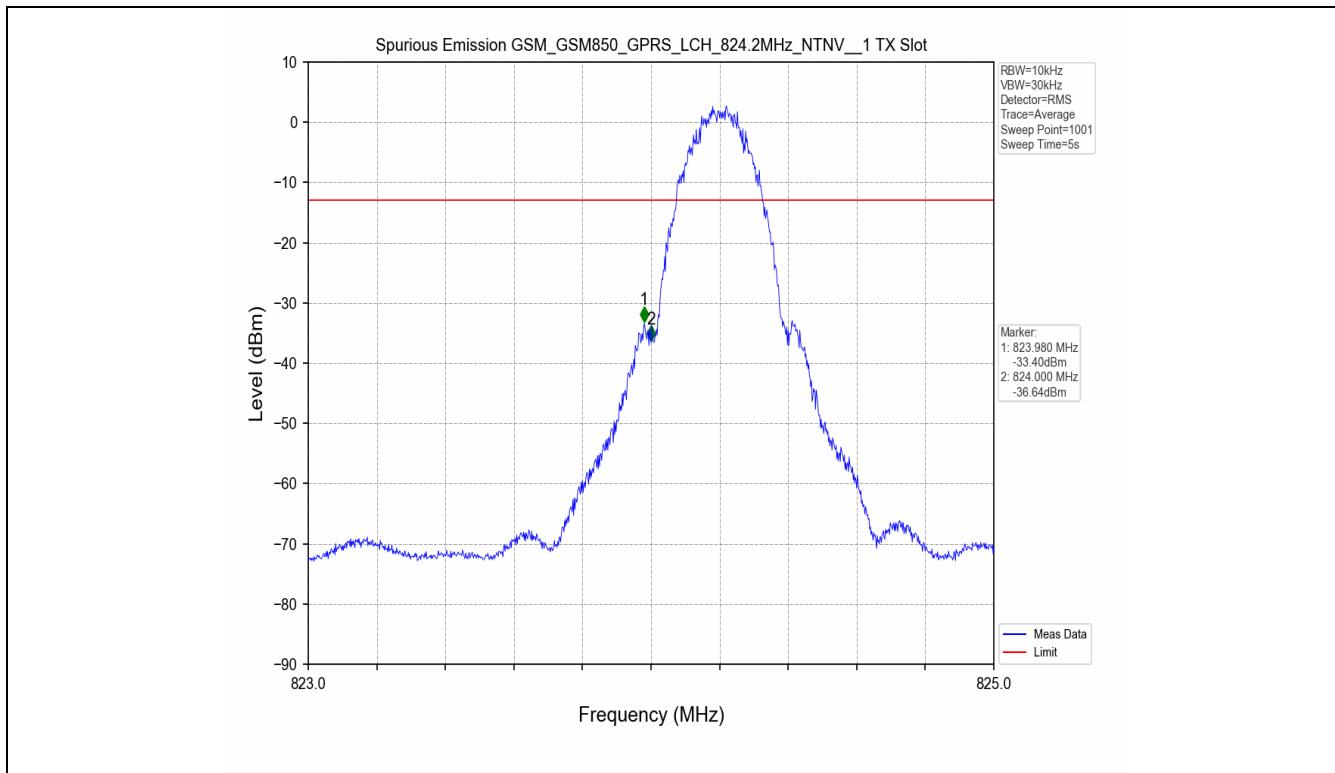
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## 6. Spurious Emission

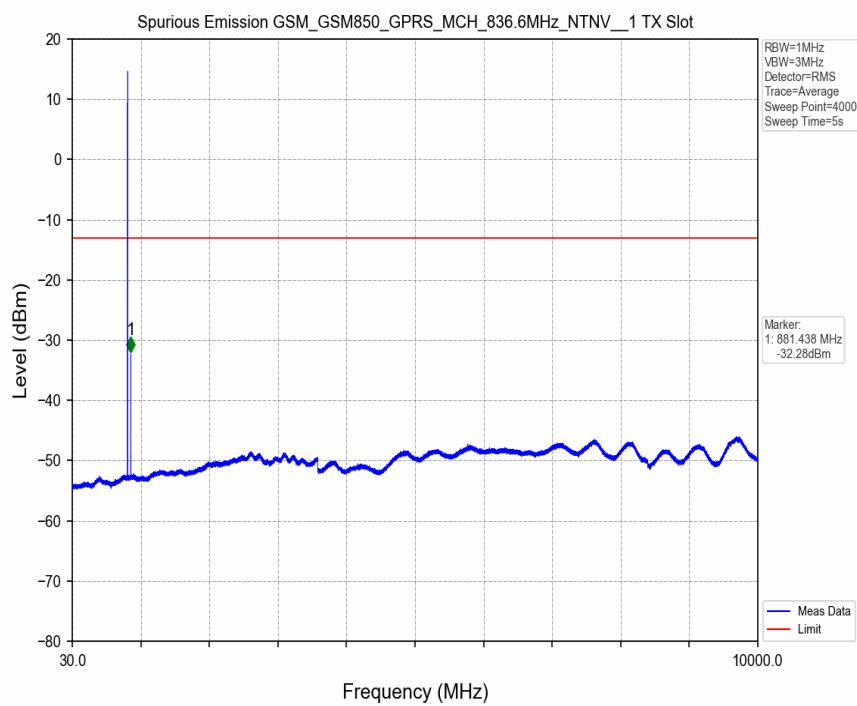
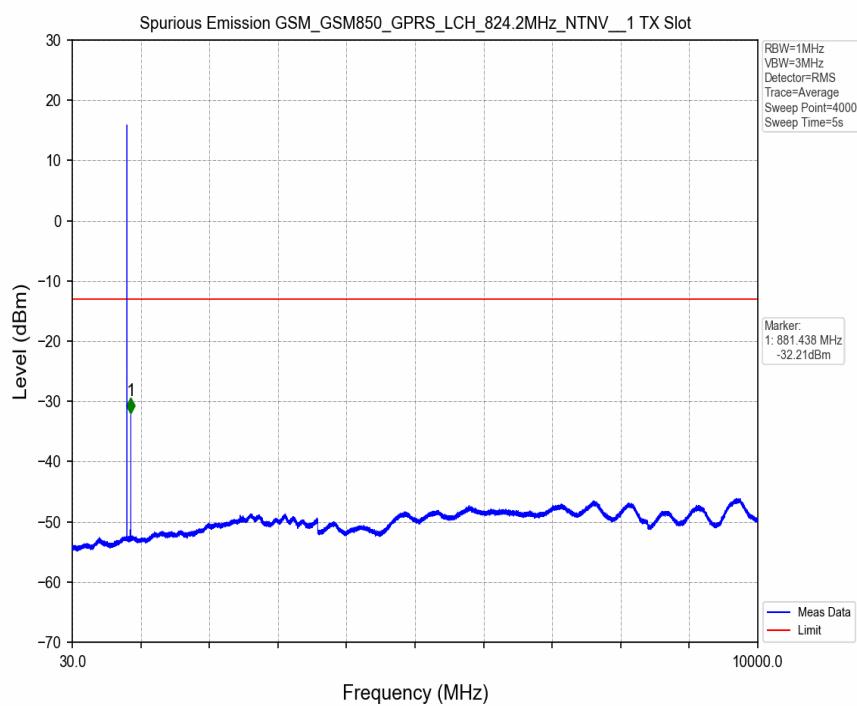
### 6.1 Test Graph



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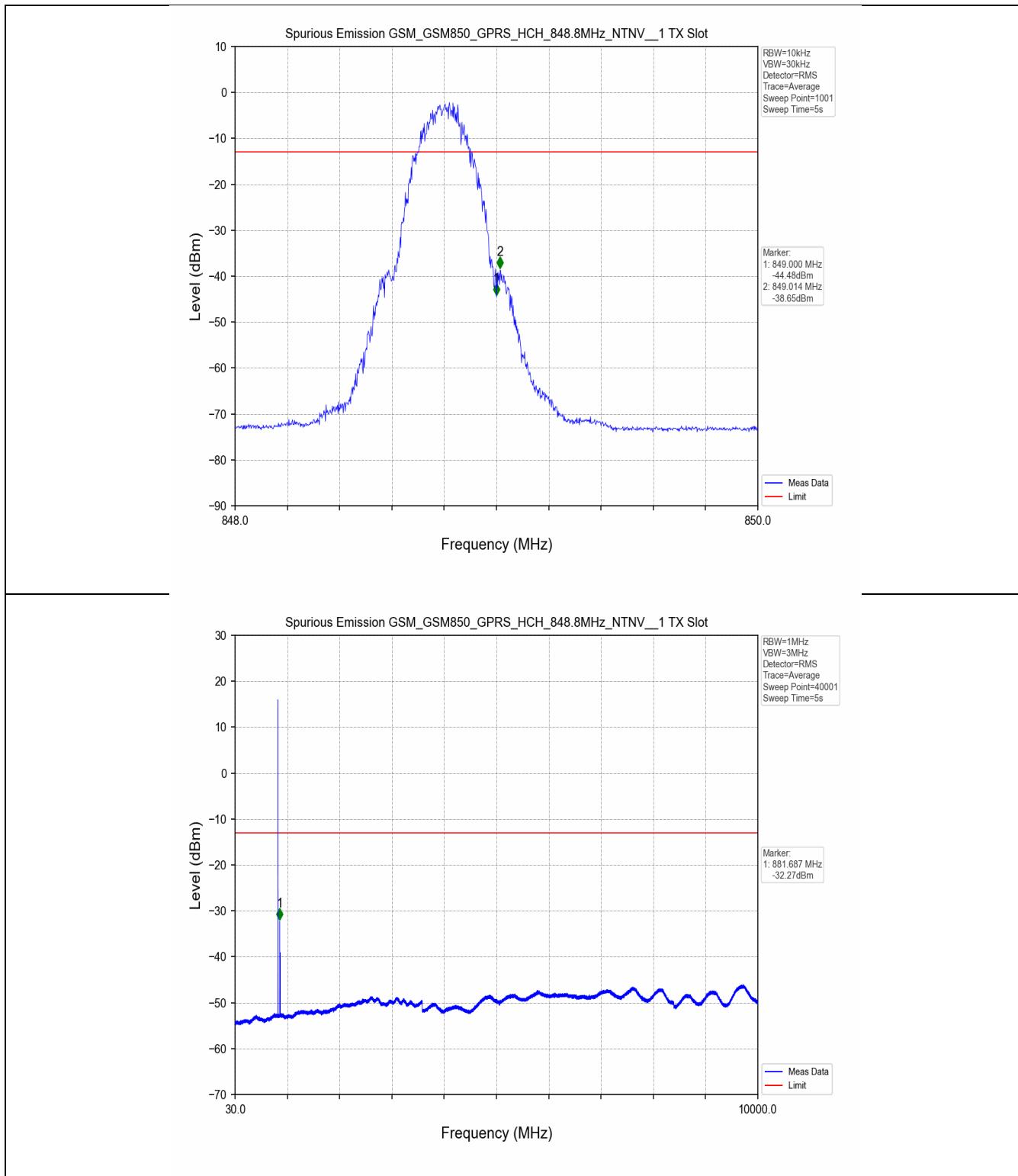




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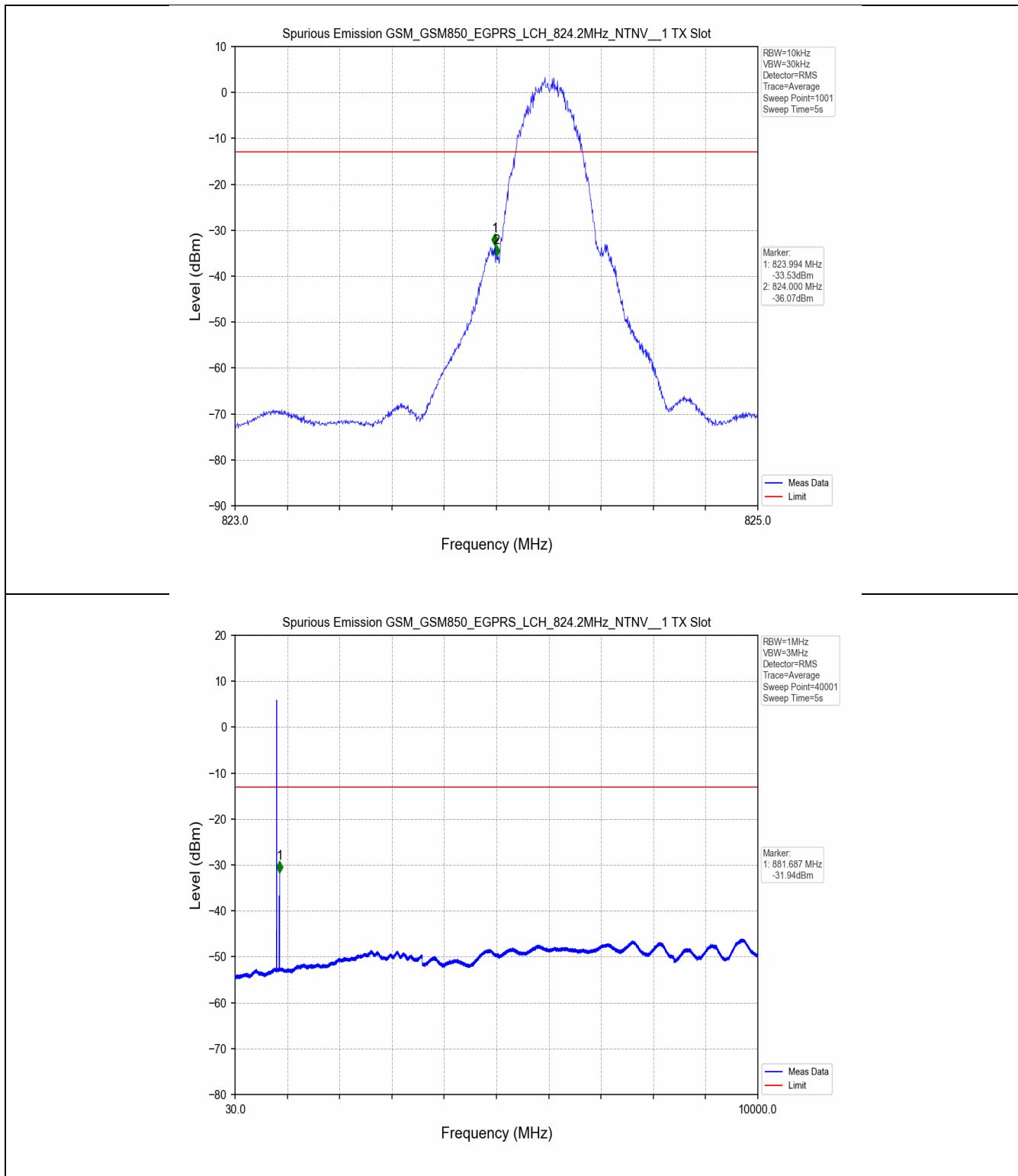




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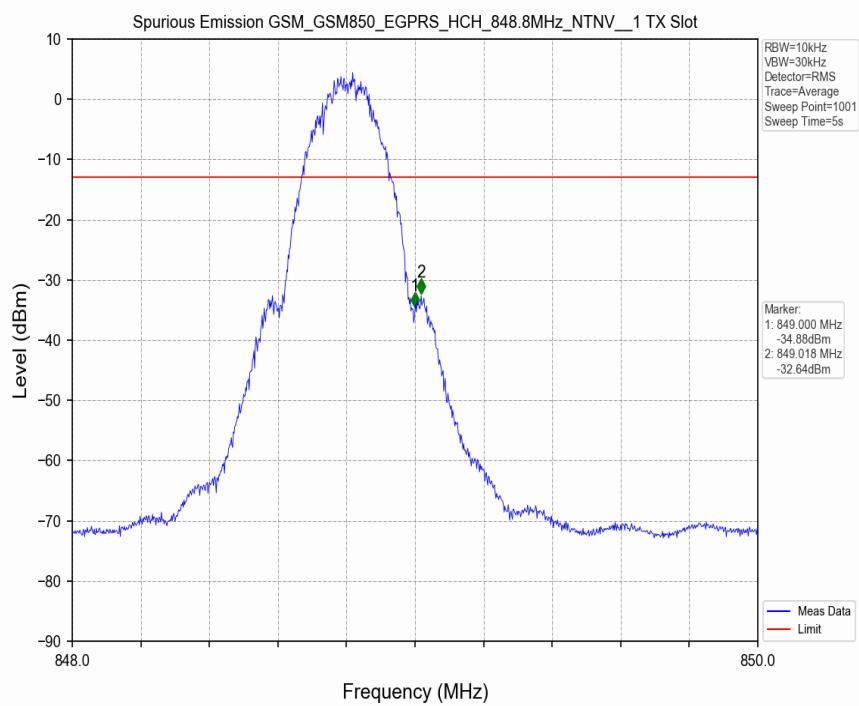
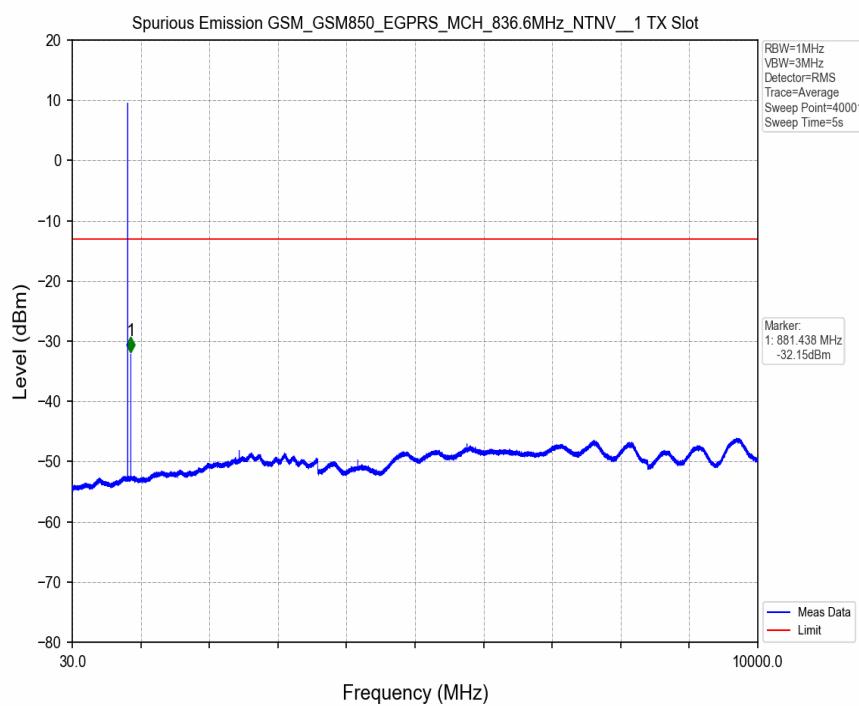


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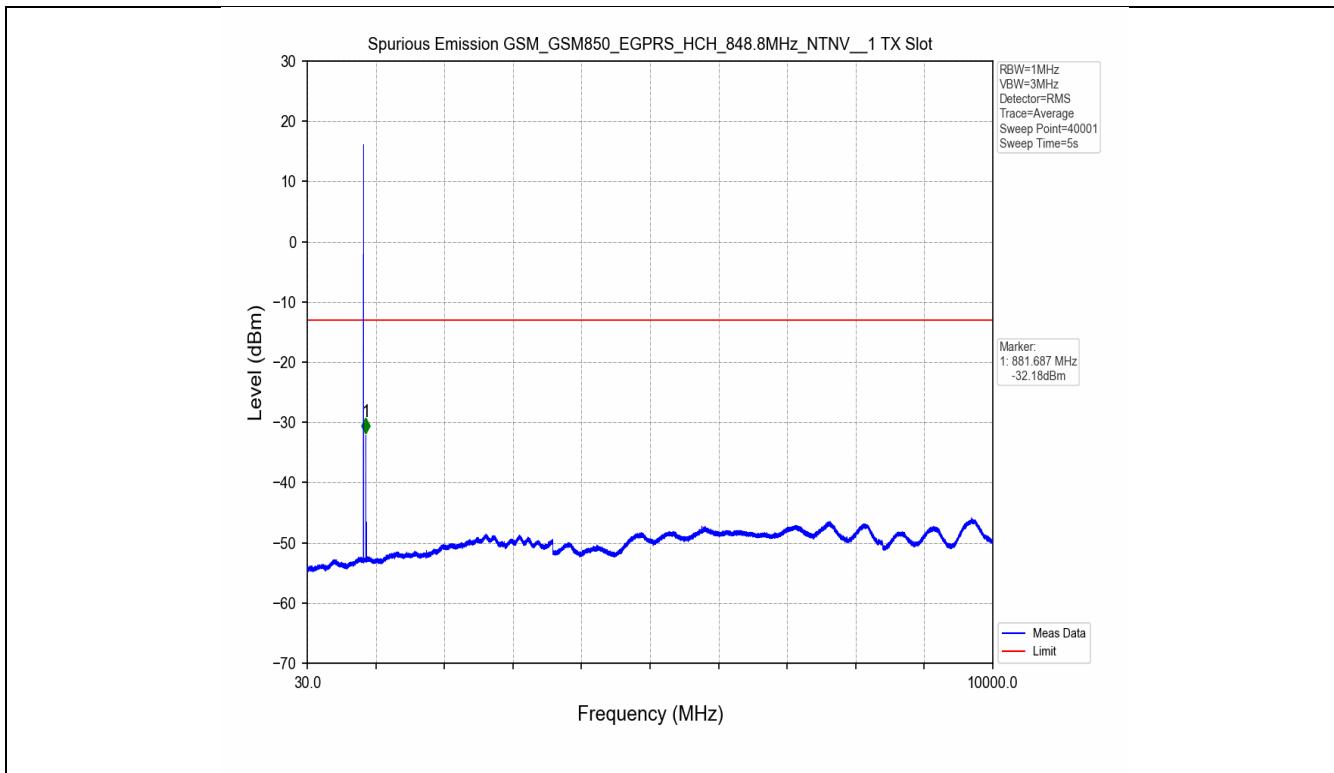
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