

Report No.: SEWM2311000466RG01

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# Appendix B.1

## GSM 850

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t (86-512) 62992980 www.sgsgroup.com.cn  
t (86-512) 62992980 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

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

### 1.1 GSM850\_ERPAnt0

#### 1.1.1 Test Result

ENV	Band: GSM850						Verdict	
	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		
	Network	Subset				Result		
NTNV	GSM	GSM	824.2	32.85	-3.00	27.70	<=38.45	Pass
			836.6	33.14	-3.00	27.99	<=38.45	Pass
			848.8	33.31	-3.00	28.16	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.78	-3.00	21.63	<=38.45	Pass
		2 TX Slots	824.2	25.59	-3.00	20.44	<=38.45	Pass
		3 TX Slots	824.2	25.73	-3.00	20.58	<=38.45	Pass
		4 TX Slots	824.2	22.41	-3.00	17.26	<=38.45	Pass
		1 TX Slot	836.6	27.18	-3.00	22.03	<=38.45	Pass
		2 TX Slots	836.6	26.12	-3.00	20.97	<=38.45	Pass
		3 TX Slots	836.6	24.00	-3.00	18.85	<=38.45	Pass
		4 TX Slots	836.6	22.87	-3.00	17.72	<=38.45	Pass
		1 TX Slot	848.8	27.30	-3.00	22.15	<=38.45	Pass
		2 TX Slots	848.8	26.43	-3.00	21.28	<=38.45	Pass
		3 TX Slots	848.8	24.32	-3.00	19.17	<=38.45	Pass
		4 TX Slots	848.8	25.16	-3.00	20.01	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

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中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区润胜路1号的小厂房南部 邮编: 215000

t (86-512) 62992980 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
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## 2. Frequency Stability

### 2.1 GSM850

#### 2.1.1 Test Result

Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Band: GSM850		Verdict
					Result	Limit	
GSM	824.2	20	3.4	-2.850	-0.0035	-2.5 to 2.5	Pass
			3.8	-5.641	-0.0068	-2.5 to 2.5	Pass
			4.4	-3.551	-0.0043	-2.5 to 2.5	Pass
			-30	3.8	-5.496	-0.0067	-2.5 to 2.5
		-20	3.8	-2.316	-0.0028	-2.5 to 2.5	Pass
		-10	3.8	-7.492	-0.0091	-2.5 to 2.5	Pass
		0	3.8	-8.993	-0.0109	-2.5 to 2.5	Pass
		10	3.8	-7.695	-0.0093	-2.5 to 2.5	Pass
		30	3.8	-5.152	-0.0063	-2.5 to 2.5	Pass
		40	3.8	-5.200	-0.0063	-2.5 to 2.5	Pass
	836.6	50	3.8	-5.464	-0.0066	-2.5 to 2.5	Pass
		20	3.4	-4.406	-0.0053	-2.5 to 2.5	Pass
			3.8	-6.013	-0.0072	-2.5 to 2.5	Pass
			4.4	-7.103	-0.0085	-2.5 to 2.5	Pass
		-30	3.8	-6.451	-0.0077	-2.5 to 2.5	Pass
	848.8	-20	3.8	-7.048	-0.0084	-2.5 to 2.5	Pass
		-10	3.8	-3.868	-0.0046	-2.5 to 2.5	Pass
		0	3.8	-2.852	-0.0034	-2.5 to 2.5	Pass
		10	3.8	-3.863	-0.0046	-2.5 to 2.5	Pass
		30	3.8	-6.193	-0.0074	-2.5 to 2.5	Pass
		40	3.8	-4.749	-0.0057	-2.5 to 2.5	Pass
		50	3.8	-7.180	-0.0086	-2.5 to 2.5	Pass
		20	3.4	-5.833	-0.0069	-2.5 to 2.5	Pass
			3.8	-4.083	-0.0048	-2.5 to 2.5	Pass
			4.4	-5.055	-0.0060	-2.5 to 2.5	Pass
			-30	3.8	-7.497	-0.0088	-2.5 to 2.5
			-20	3.8	-5.850	-0.0069	-2.5 to 2.5
EGPRS	824.2	-10	3.8	-3.970	-0.0047	-2.5 to 2.5	Pass
		0	3.8	-4.376	-0.0052	-2.5 to 2.5	Pass
		10	3.8	-5.904	-0.0070	-2.5 to 2.5	Pass
		30	3.8	-6.399	-0.0075	-2.5 to 2.5	Pass
		40	3.8	-10.631	-0.0125	-2.5 to 2.5	Pass
		50	3.8	-6.837	-0.0081	-2.5 to 2.5	Pass

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中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区湖山路1号的小厂房南部 邮编: 215000

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		-10	3.8	-9.829	-0.0119	-2.5 to 2.5	Pass
		0	3.8	-9.210	-0.0112	-2.5 to 2.5	Pass
		10	3.8	-7.090	-0.0086	-2.5 to 2.5	Pass
		30	3.8	-9.110	-0.0111	-2.5 to 2.5	Pass
		40	3.8	-7.736	-0.0094	-2.5 to 2.5	Pass
		50	3.8	-7.758	-0.0094	-2.5 to 2.5	Pass
836.6			3.4	-9.953	-0.0119	-2.5 to 2.5	Pass
		20	3.8	-6.664	-0.0080	-2.5 to 2.5	Pass
			4.4	-9.262	-0.0111	-2.5 to 2.5	Pass
		-30	3.8	-4.637	-0.0055	-2.5 to 2.5	Pass
		-20	3.8	-6.156	-0.0074	-2.5 to 2.5	Pass
		-10	3.8	-6.901	-0.0082	-2.5 to 2.5	Pass
		0	3.8	-6.252	-0.0075	-2.5 to 2.5	Pass
		10	3.8	-7.137	-0.0085	-2.5 to 2.5	Pass
		30	3.8	-9.576	-0.0114	-2.5 to 2.5	Pass
		40	3.8	-4.923	-0.0059	-2.5 to 2.5	Pass
		50	3.8	-9.676	-0.0116	-2.5 to 2.5	Pass
			3.4	-8.642	-0.0102	-2.5 to 2.5	Pass
		20	3.8	-6.327	-0.0075	-2.5 to 2.5	Pass
			4.4	-8.852	-0.0104	-2.5 to 2.5	Pass
848.8		-30	3.8	-6.978	-0.0082	-2.5 to 2.5	Pass
		-20	3.8	-7.400	-0.0087	-2.5 to 2.5	Pass
		-10	3.8	-6.795	-0.0080	-2.5 to 2.5	Pass
		0	3.8	-9.568	-0.0113	-2.5 to 2.5	Pass
		10	3.8	-8.344	-0.0098	-2.5 to 2.5	Pass
		30	3.8	-7.165	-0.0084	-2.5 to 2.5	Pass
		40	3.8	-5.767	-0.0068	-2.5 to 2.5	Pass
		50	3.8	-7.399	-0.0087	-2.5 to 2.5	Pass

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### 3. Field Strength of Spurious Radiation

**Test Band = GSM850**  
**Test Channel = Low**

Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	43.05	-48.22	25.27	-75.16	-13.00	62.16	Horizontal
2	2472.6000	42.40	-47.32	27.22	-72.95	-13.00	59.95	Horizontal
3	3296.8000	41.84	-46.67	28.48	-71.61	-13.00	58.61	Horizontal
4	4121.0000	40.64	-45.91	29.39	-71.14	-13.00	58.14	Horizontal
5	4945.2000	41.77	-45.69	31.28	-67.89	-13.00	54.89	Horizontal
6	5769.4000	39.24	-44.63	32.65	-68.00	-13.00	55.00	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	42.69	-48.22	25.27	-75.52	-13.00	62.52	Vertical
2	2472.6000	42.44	-47.32	27.22	-72.91	-13.00	59.91	Vertical
3	3296.8000	42.01	-46.67	28.48	-71.44	-13.00	58.44	Vertical
4	4121.0000	40.14	-45.91	29.39	-71.64	-13.00	58.64	Vertical
5	4945.2000	40.67	-45.69	31.28	-68.99	-13.00	55.99	Vertical
6	5769.4000	40.10	-44.63	32.65	-67.14	-13.00	54.14	Vertical

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**Test Band = GSM850\_****Test Channel = Mid**

Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	42.51	-48.19	25.31	-75.63	-13.00	62.63	Horizontal
2	2509.2000	42.83	-47.24	27.32	-72.35	-13.00	59.35	Horizontal
3	3345.6000	42.13	-46.62	28.51	-71.24	-13.00	58.24	Horizontal
4	4182.0000	39.53	-45.95	29.54	-72.14	-13.00	59.14	Horizontal
5	5018.4000	40.39	-45.73	31.45	-69.15	-13.00	56.15	Horizontal
6	5854.8000	39.27	-44.83	32.67	-68.15	-13.00	55.15	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	42.91	-48.19	25.31	-75.23	-13.00	62.23	Vertical
2	2509.2000	42.04	-47.24	27.32	-73.14	-13.00	60.14	Vertical
3	3345.6000	41.33	-46.62	28.51	-72.04	-13.00	59.04	Vertical
4	4182.0000	39.73	-45.95	29.54	-71.94	-13.00	58.94	Vertical
5	5018.4000	40.14	-45.73	31.45	-69.40	-13.00	56.40	Vertical
6	5854.8000	39.40	-44.83	32.67	-68.02	-13.00	55.02	Vertical

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**Test Band = GSM850**  
**Test Channel = High**

Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	43.66	-48.16	25.35	-74.42	-13.00	61.42	Horizontal
2	2546.4000	41.86	-47.11	27.39	-73.12	-13.00	60.12	Horizontal
3	3395.2000	41.60	-46.55	28.54	-71.67	-13.00	58.67	Horizontal
4	4244.0000	40.85	-45.88	29.69	-70.61	-13.00	57.61	Horizontal
5	5092.8000	39.35	-45.41	31.62	-69.70	-13.00	56.70	Horizontal
6	5941.6000	40.40	-44.74	32.69	-66.92	-13.00	53.92	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	42.87	-48.16	25.35	-75.21	-13.00	62.21	Vertical
2	2546.4000	42.23	-47.11	27.39	-72.75	-13.00	59.75	Vertical
3	3395.2000	41.19	-46.55	28.54	-72.08	-13.00	59.08	Vertical
4	4244.0000	40.56	-45.88	29.69	-70.90	-13.00	57.90	Vertical
5	5092.8000	39.77	-45.41	31.62	-69.28	-13.00	56.28	Vertical
6	5941.6000	39.46	-44.74	32.69	-67.86	-13.00	54.86	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

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## 4. 99% & 26dB Bandwidth

### 4.1 GSM850\_OBW

#### 4.1.1 Test Result

ENV	Band: GSM850					Verdict	
	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)			
	Network	Subset		Result	Limit		
NTNV	GSM	GSM	824.2	0.248	/	Pass	
			836.6	0.245	/	Pass	
			848.8	0.248	/	Pass	
	EGPRS	1 TX Slot	824.2	0.240	/	Pass	
			836.6	0.255	/	Pass	
			848.8	0.239	/	Pass	

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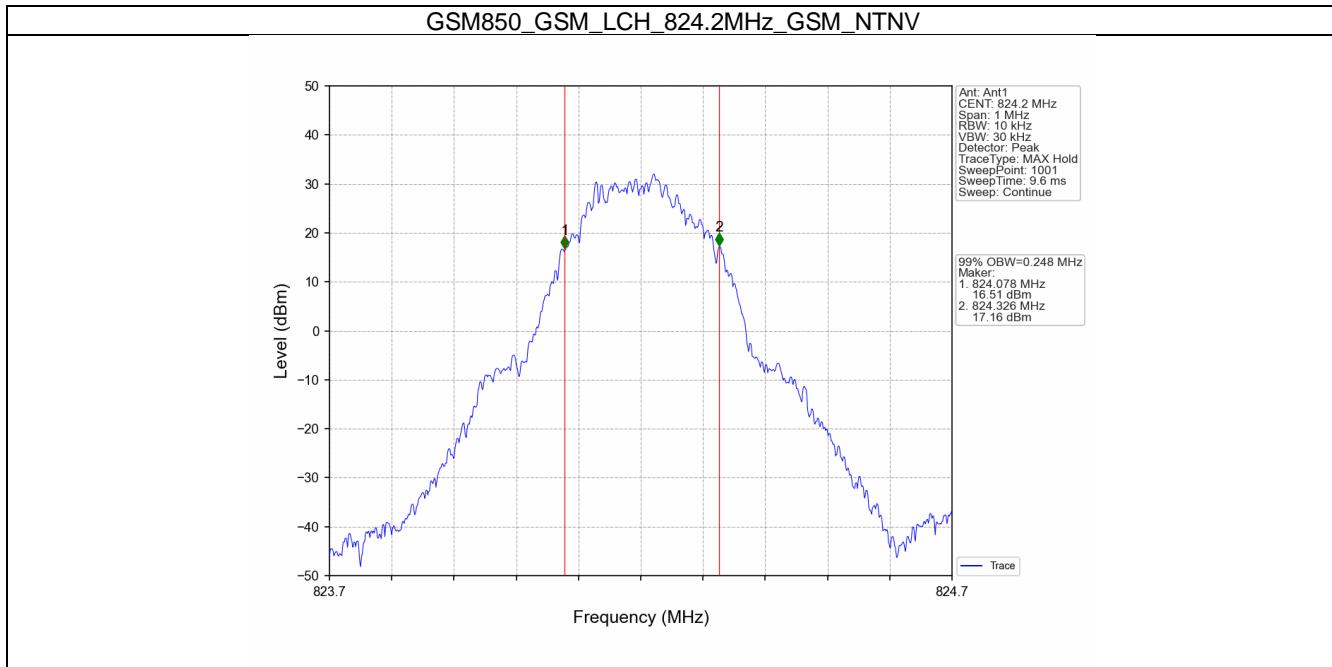
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## 4.1.2 Test Graph



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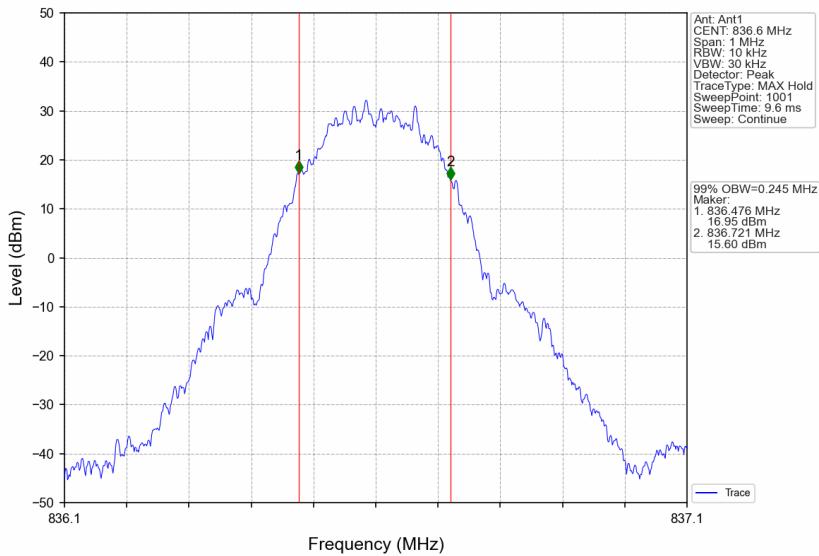
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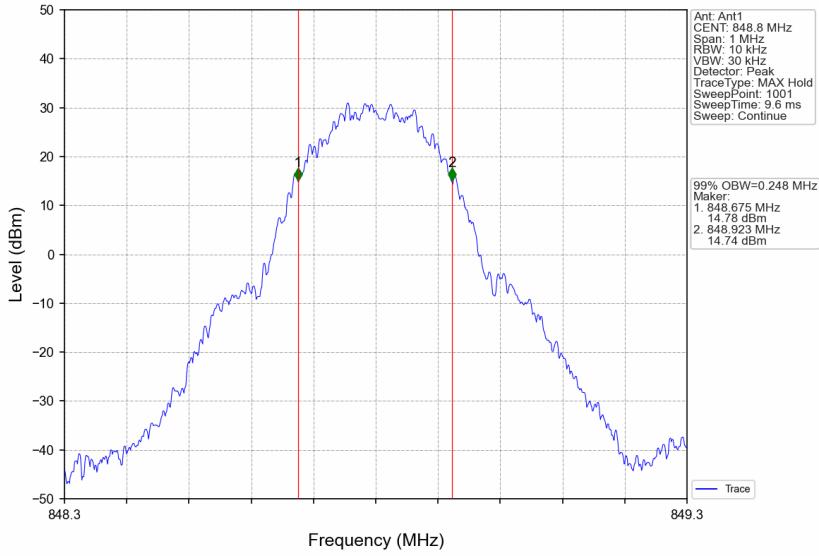
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## GSM850\_GSM\_MCH\_836.6MHz\_GSM\_NTNV



## GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



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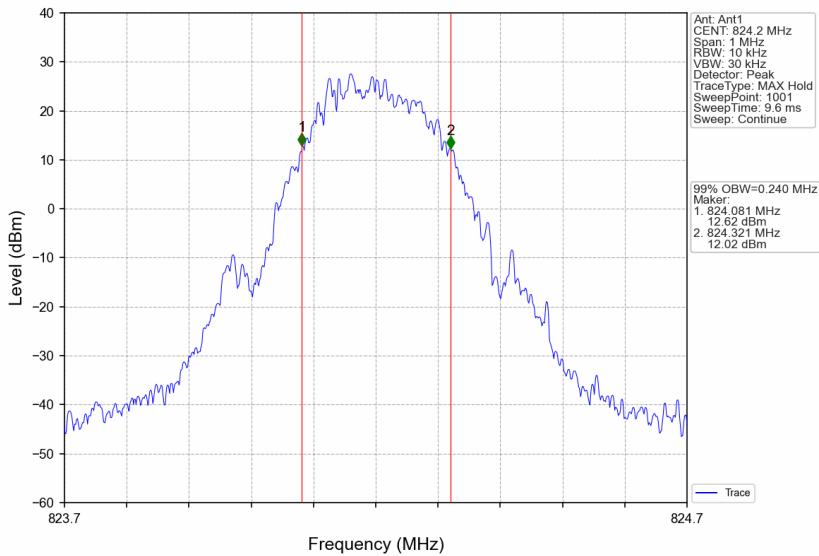
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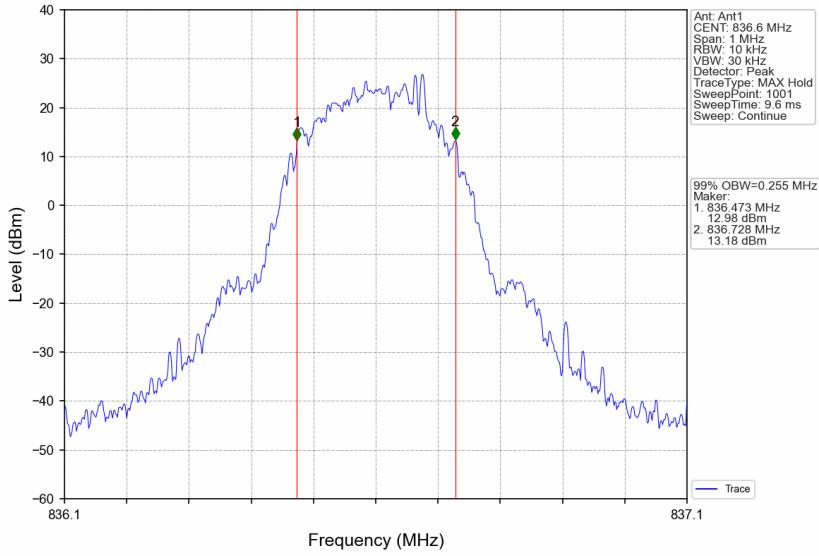
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## GSM850\_EGPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



## GSM850\_EGPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



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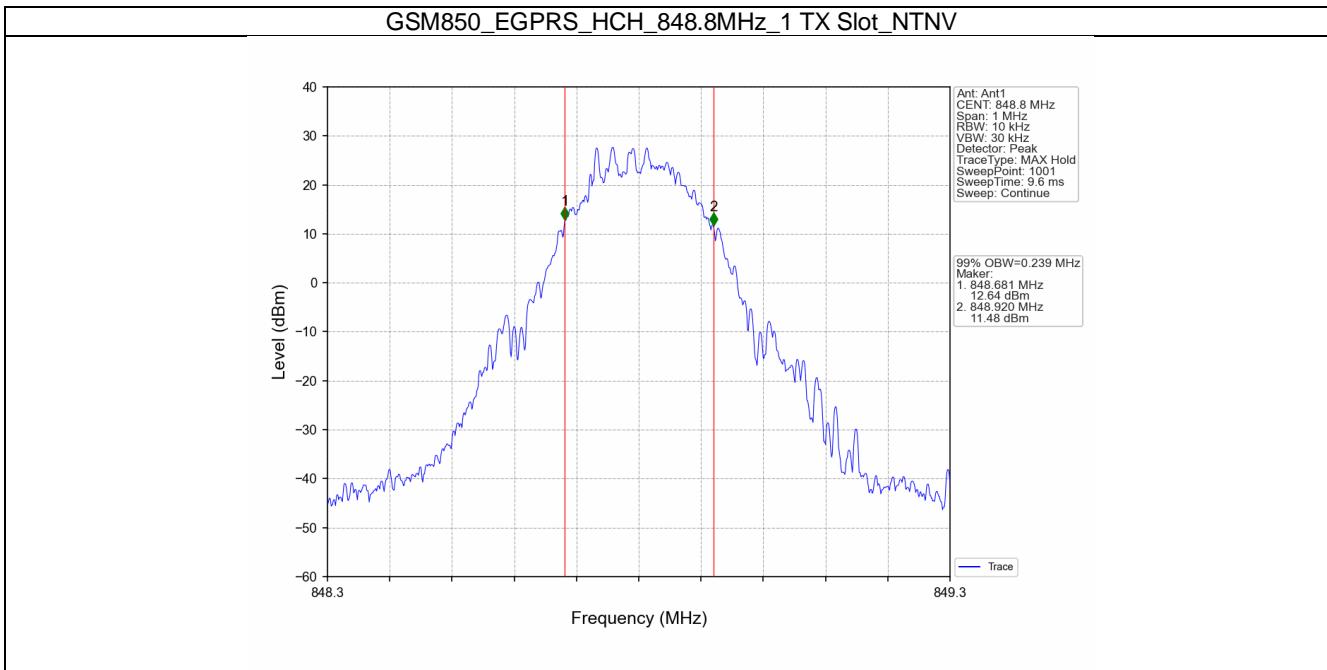
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## 4.2 GSM850\_XDB

### 4.2.1 Test Result

ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
		824.2	0.314	/	Pass	
NTNV	GSM	GSM	836.6	0.313	/	Pass
			848.8	0.319	/	Pass
			824.2	0.308	/	Pass
	EGPRS	1 TX Slot	836.6	0.313	/	Pass
			848.8	0.307	/	Pass

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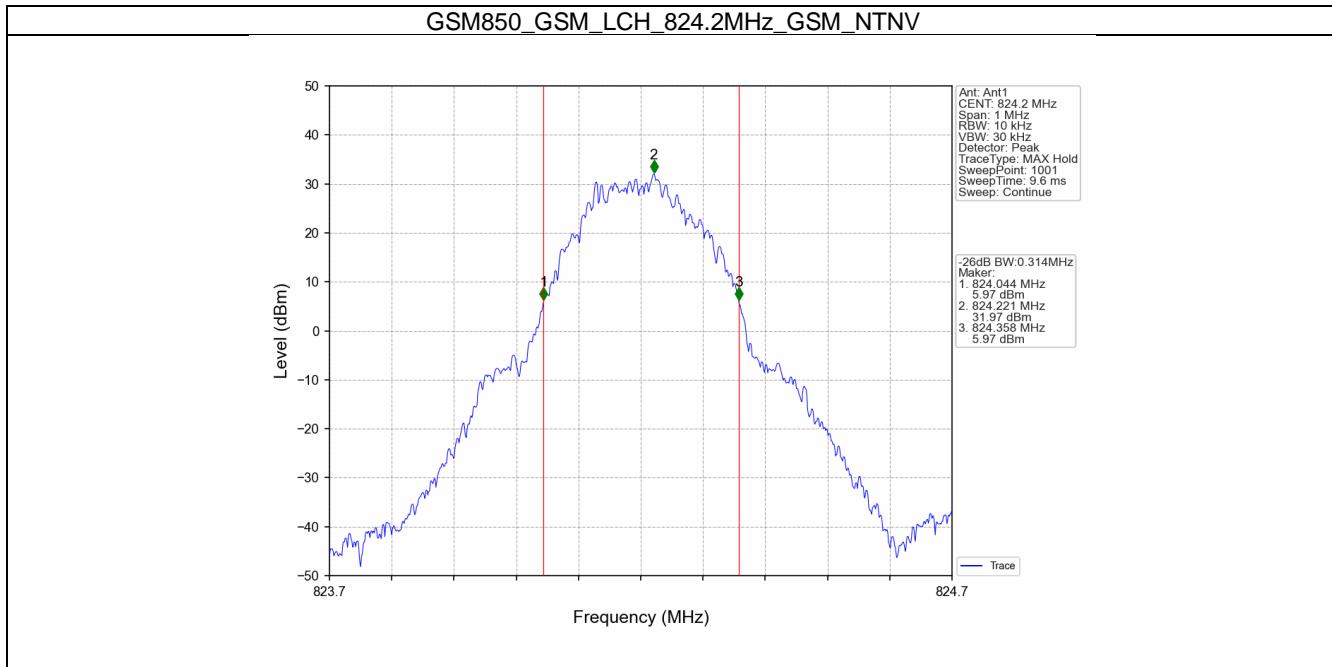
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## 4.2.2 Test Graph



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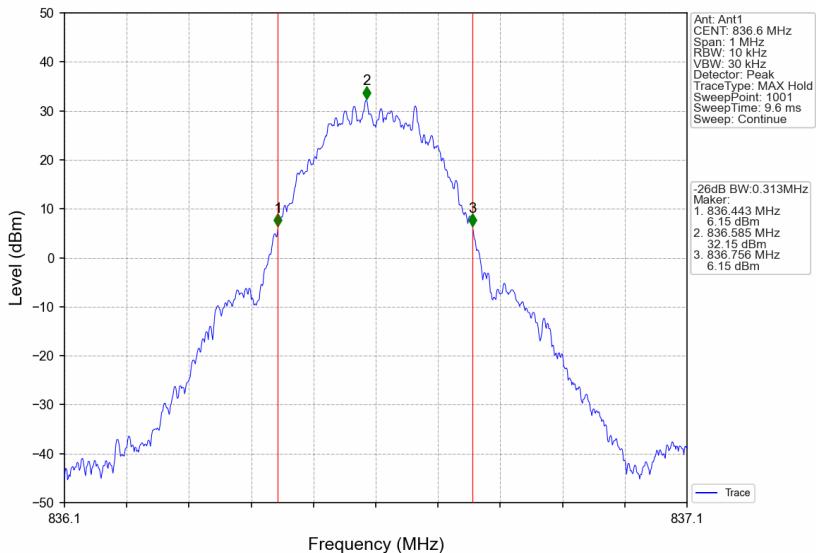
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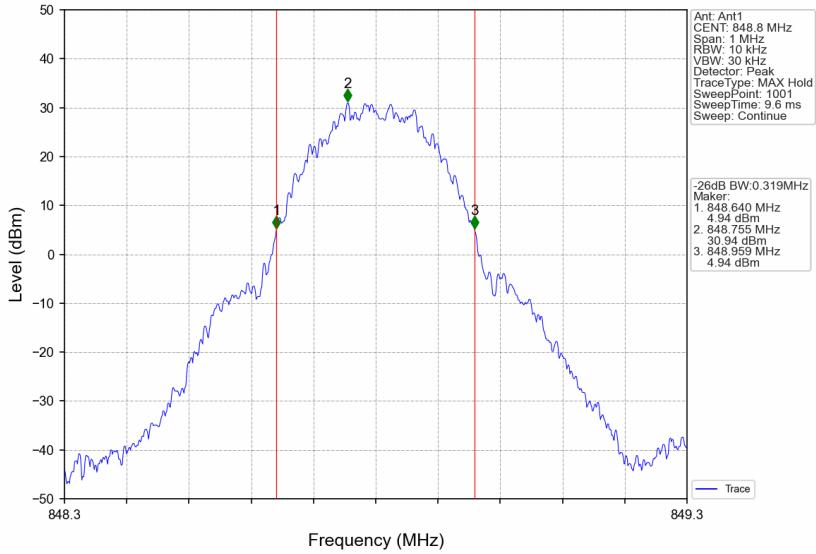
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## GSM850\_GSM\_MCH\_836.6MHz\_GSM\_NTNV



## GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



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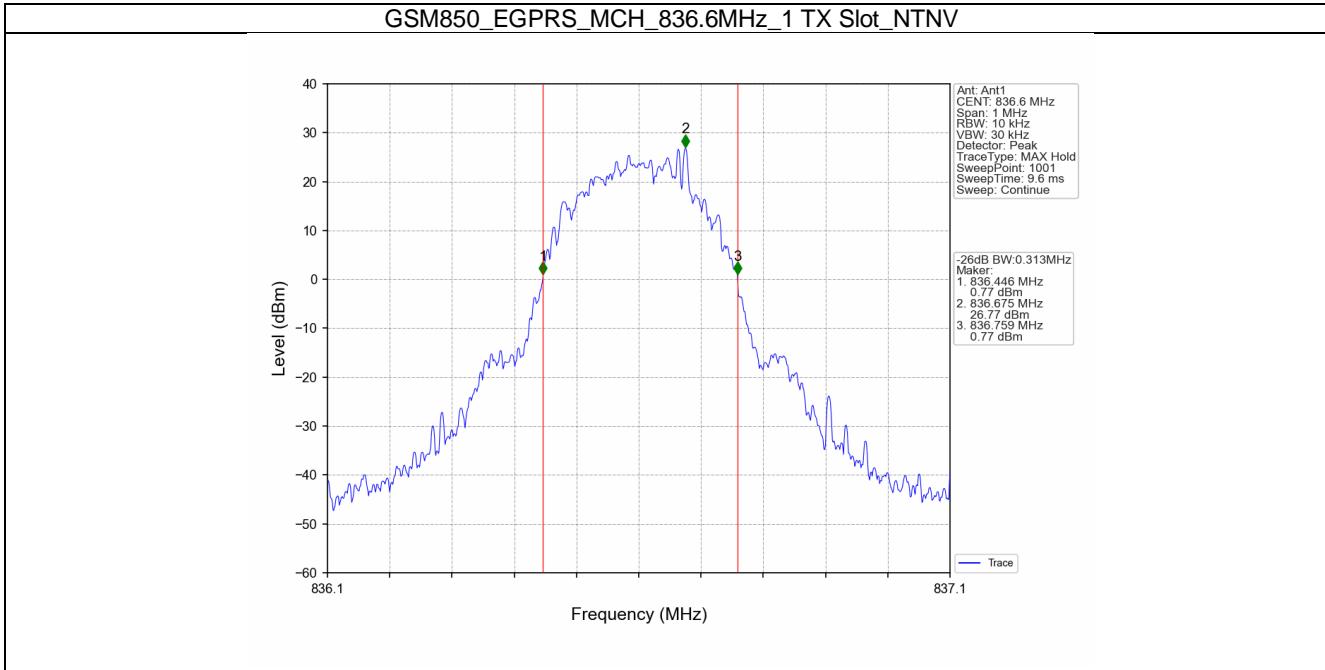
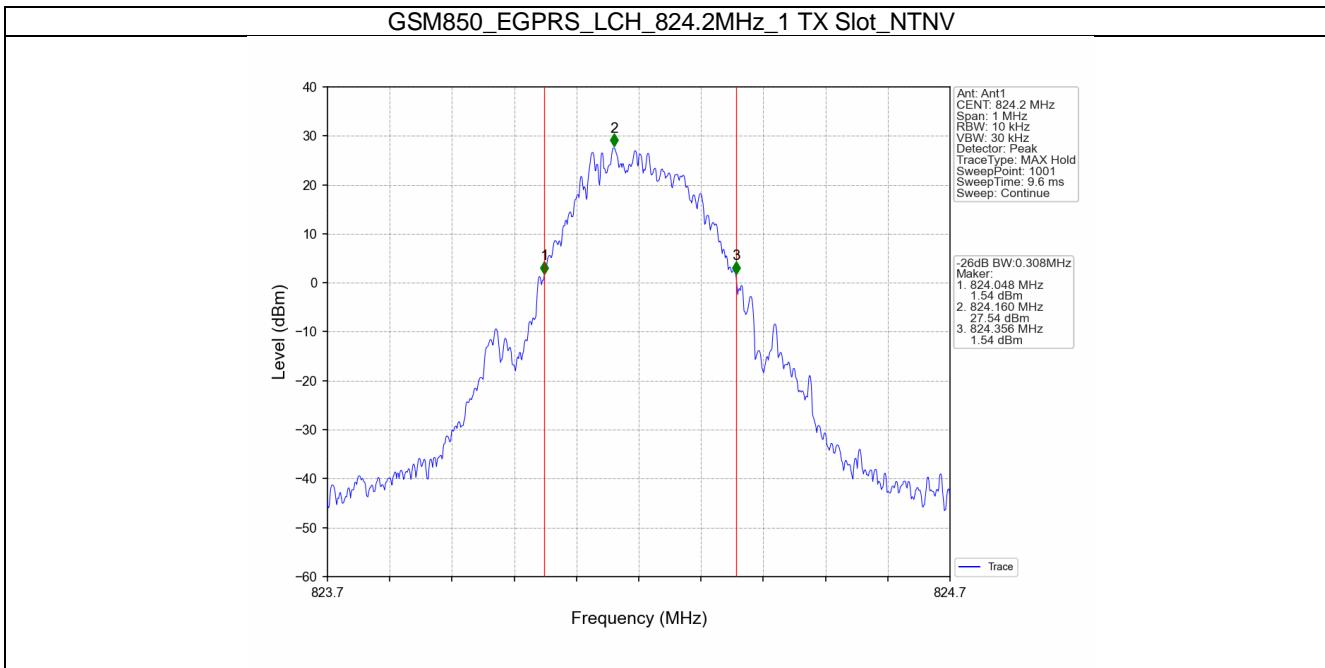
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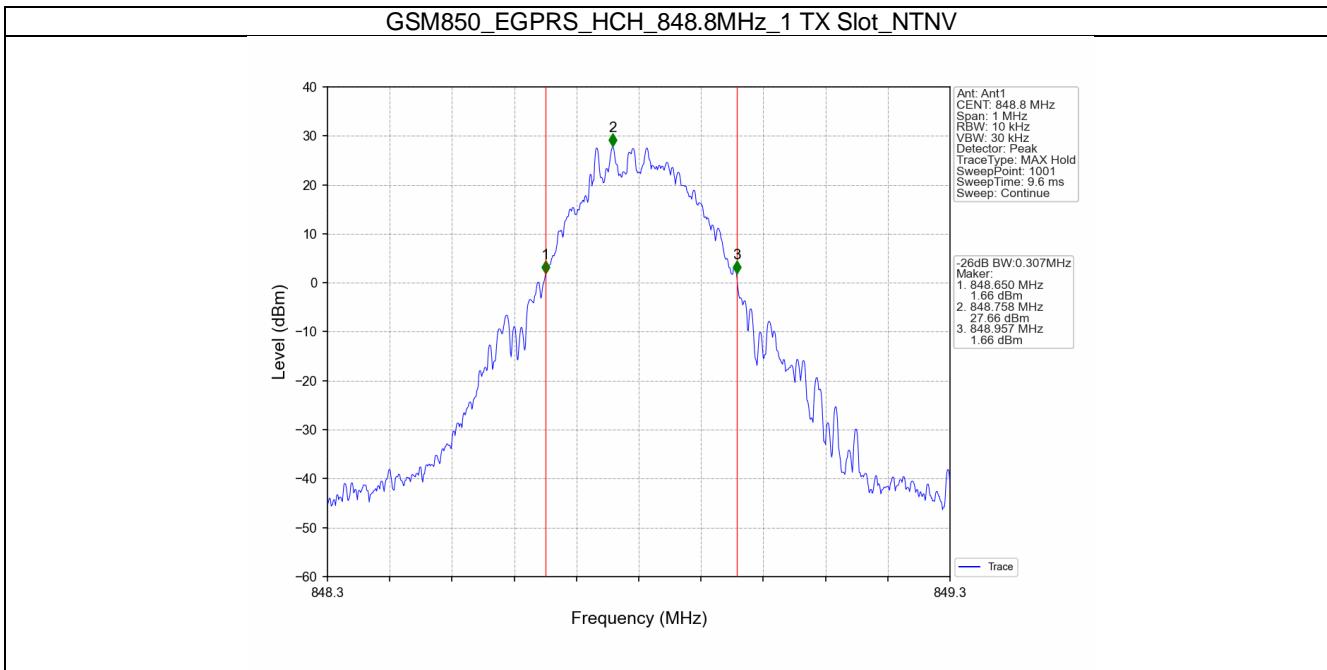
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## 5. Peak-Average Ratio

### 5.1 GSM850

#### 5.1.1 Test Result

ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict	
	Network	Subset		Result	Limit		
NTNV	GSM	GSM	824.2	9.54	<=13	Pass	
			836.6	9.64	<=13	Pass	
			848.8	9.63	<=13	Pass	
	EGPRS	4 TX Slots	824.2	9.86	<=13	Pass	
			836.6	10.01	<=13	Pass	
			848.8	6.64	<=13	Pass	

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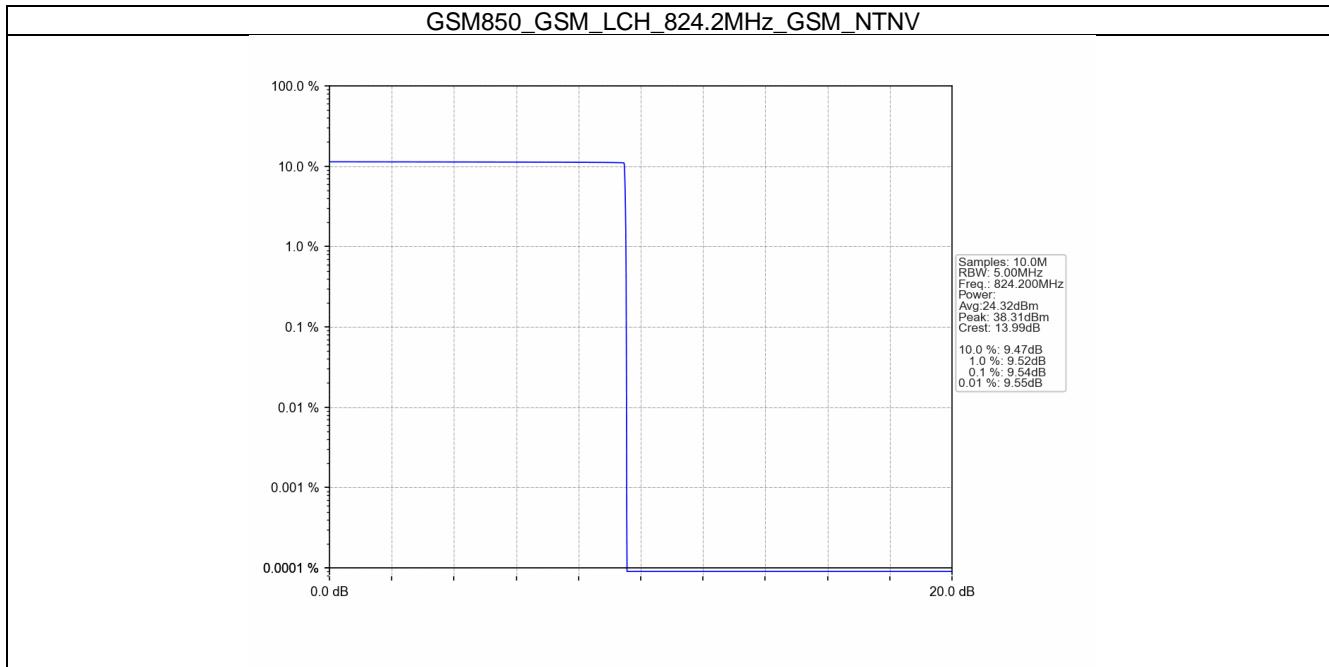
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## 4.1.2 Test Graph



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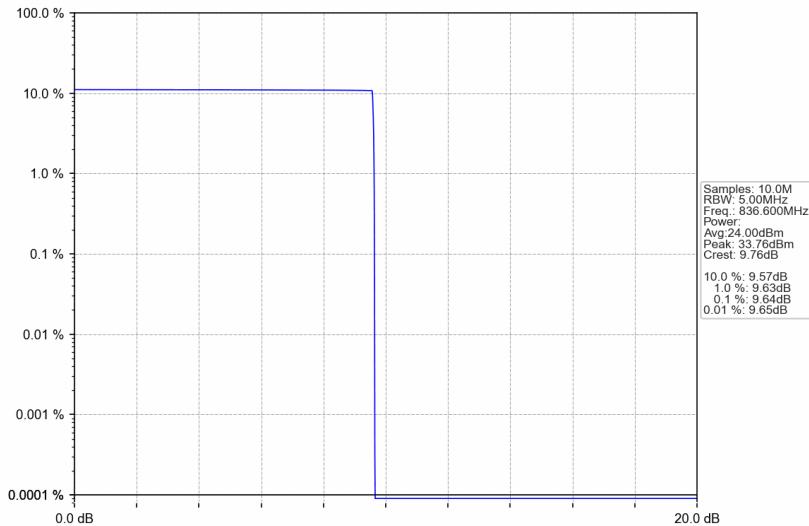
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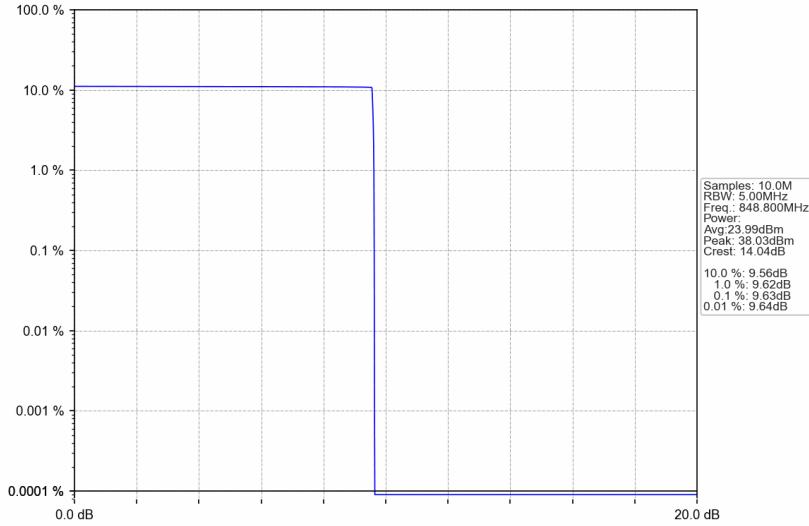
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## GSM850\_GSM\_MCH\_836.6MHz\_GSM\_NTNV



## GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



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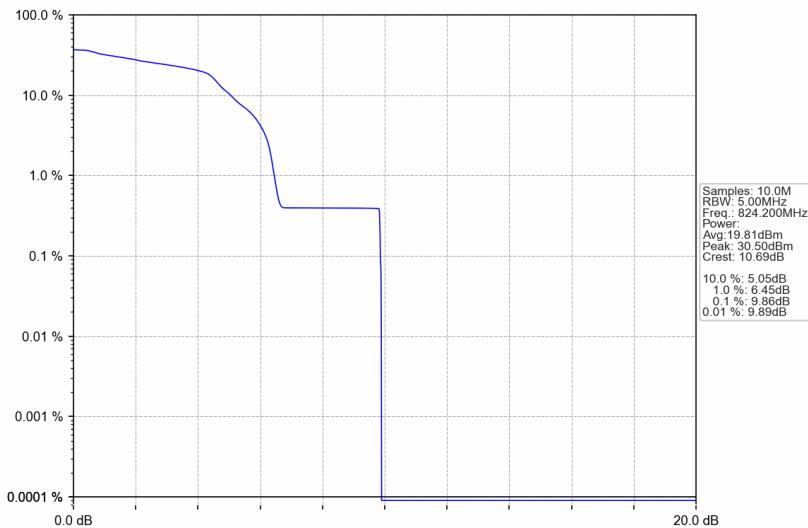
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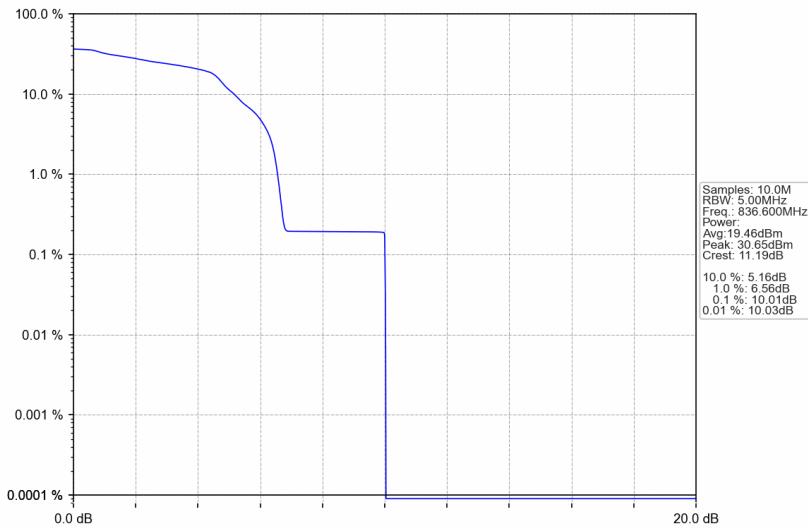
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## GSM850\_EGPRS\_LCH\_824.2MHz\_4 TX Slots\_NTNV



## GSM850\_EGPRS\_MCH\_836.6MHz\_4 TX Slots\_NTNV



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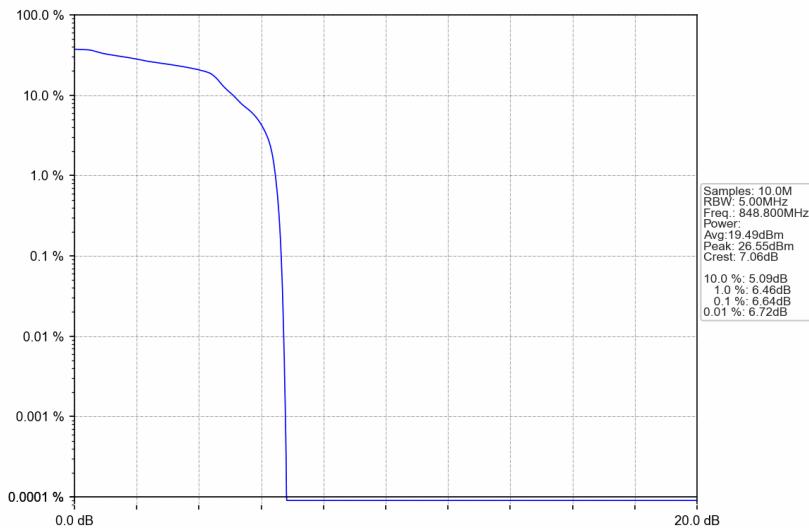
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## GSM850\_EGPRS\_HCH\_848.8MHz\_4 TX Slots\_NTNV



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## 6. Spurious Emission & Band Edges

### 6.1 GSM850

#### 6.1.1 Test Result

ENV	Band: GSM850				
	Mode		Frequency (MHz)	Spurious Emission	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	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

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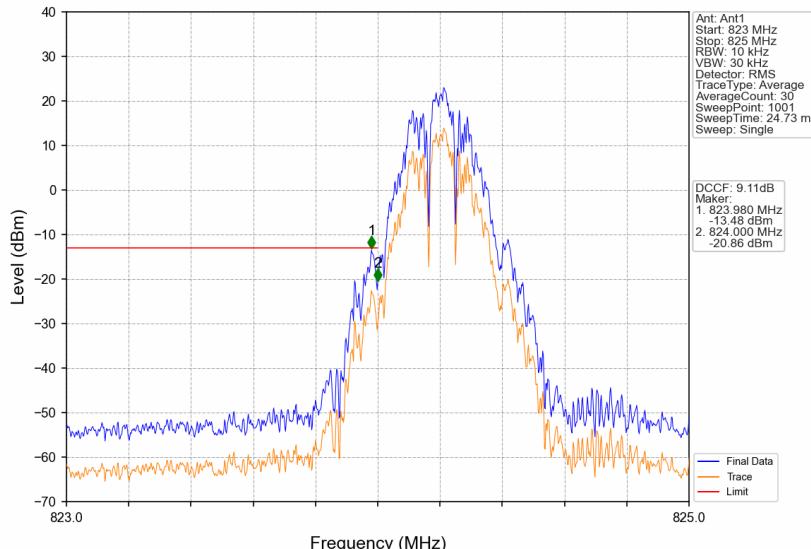
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## 6.1.2 Test Graph

GSM850\_GSM\_LCH\_824.2MHz\_GSM\_NTNV



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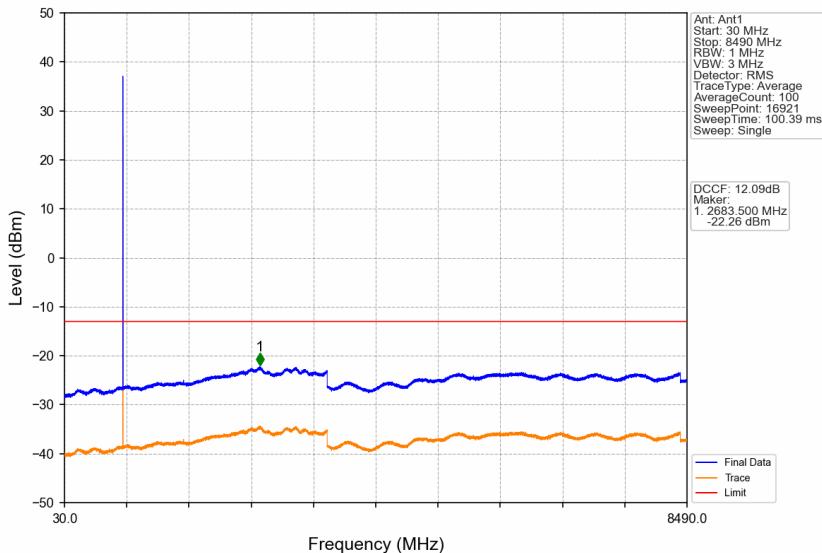
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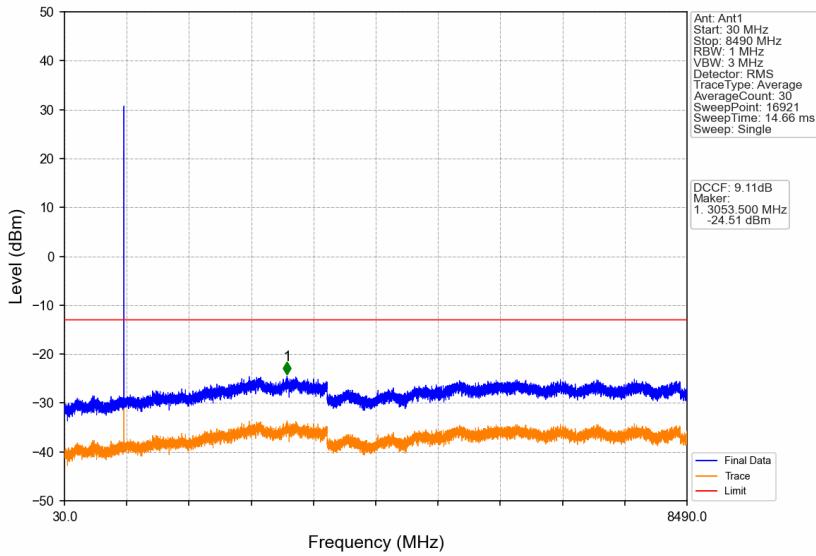
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## GSM850\_GSM\_LCH\_824.2MHz\_GSM\_NTNV



## GSM850\_GSM\_MCH\_836.6MHz\_GSM\_NTNV



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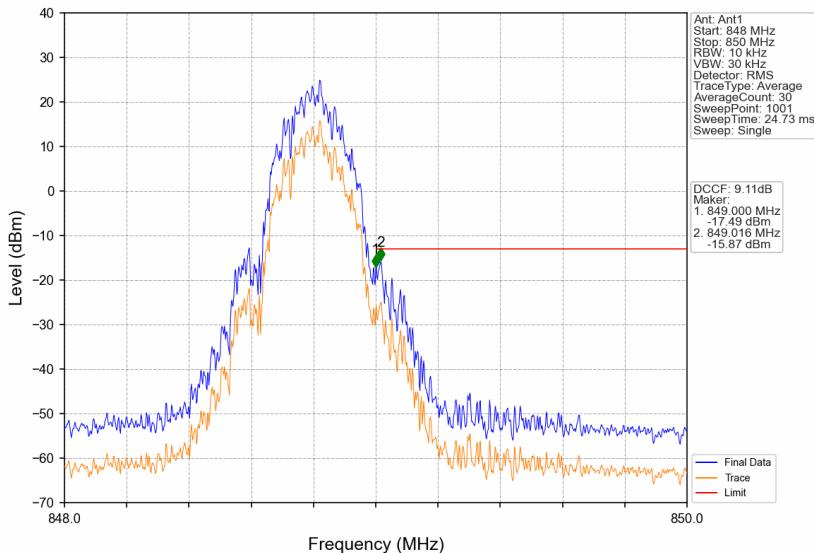
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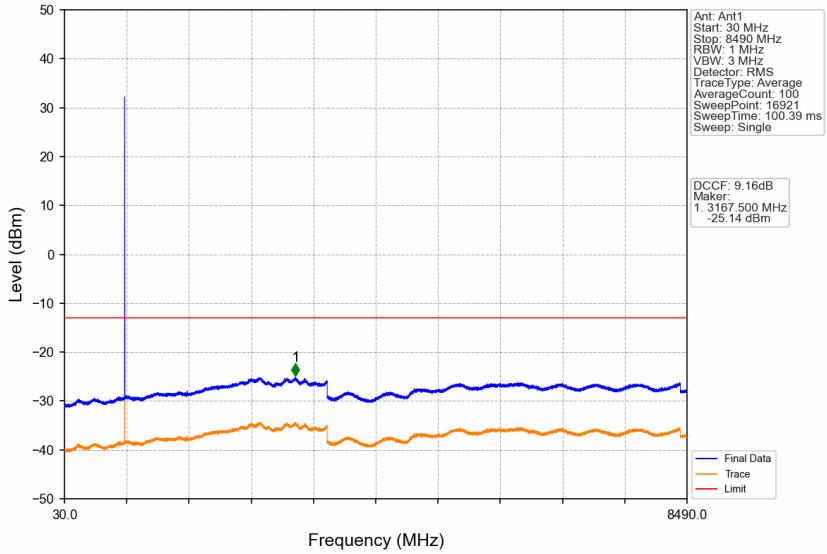
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## GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



## GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



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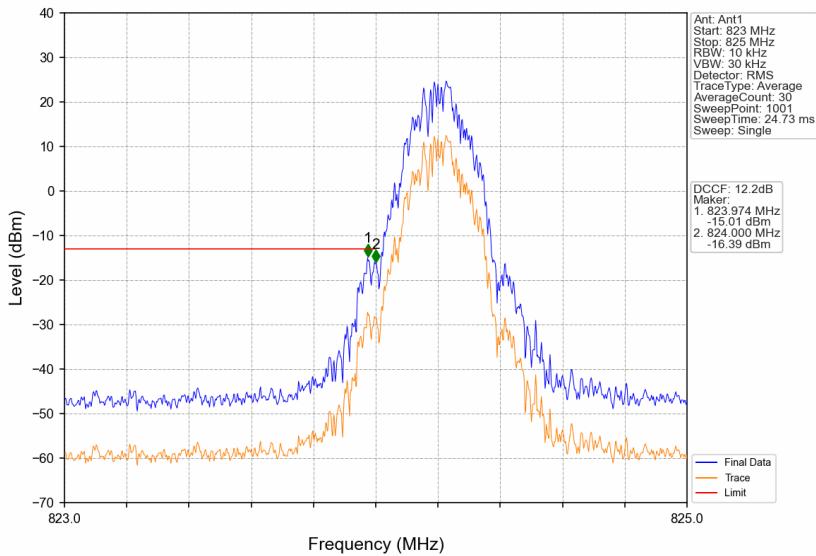
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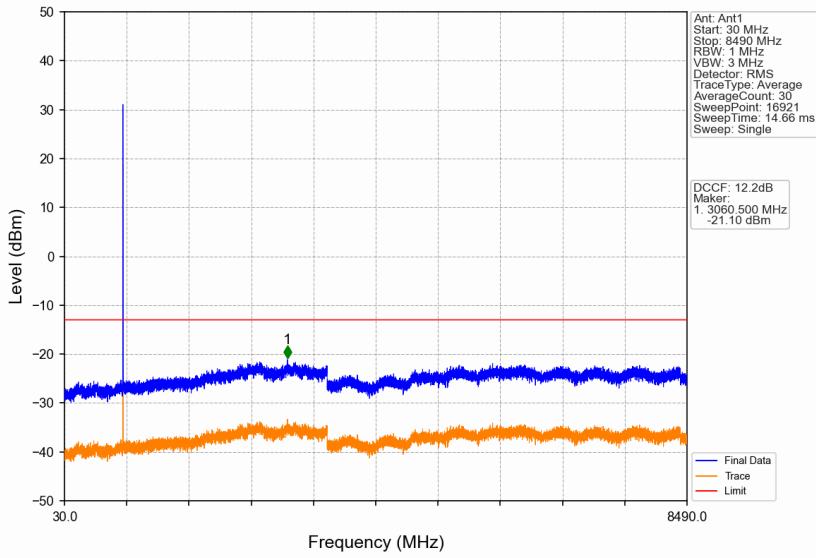
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## GSM850\_EGPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



## GSM850\_EGPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



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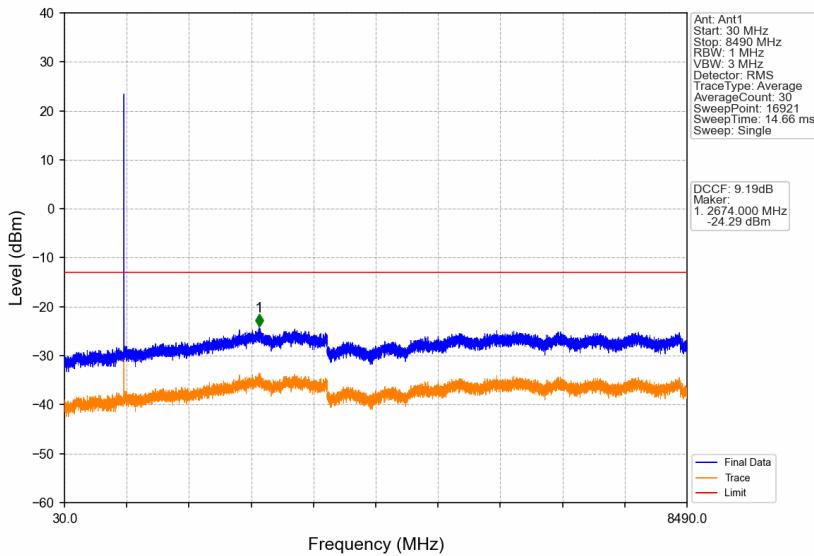
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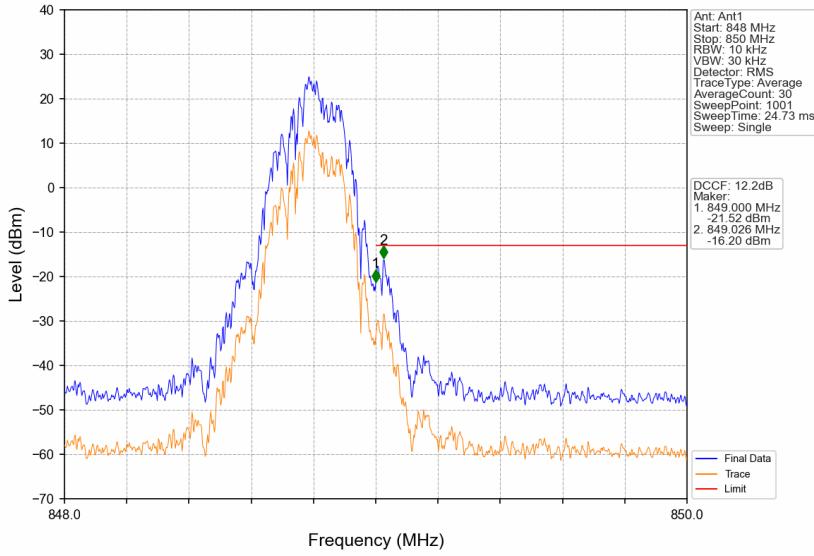
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## GSM850\_EGPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



## GSM850\_EGPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



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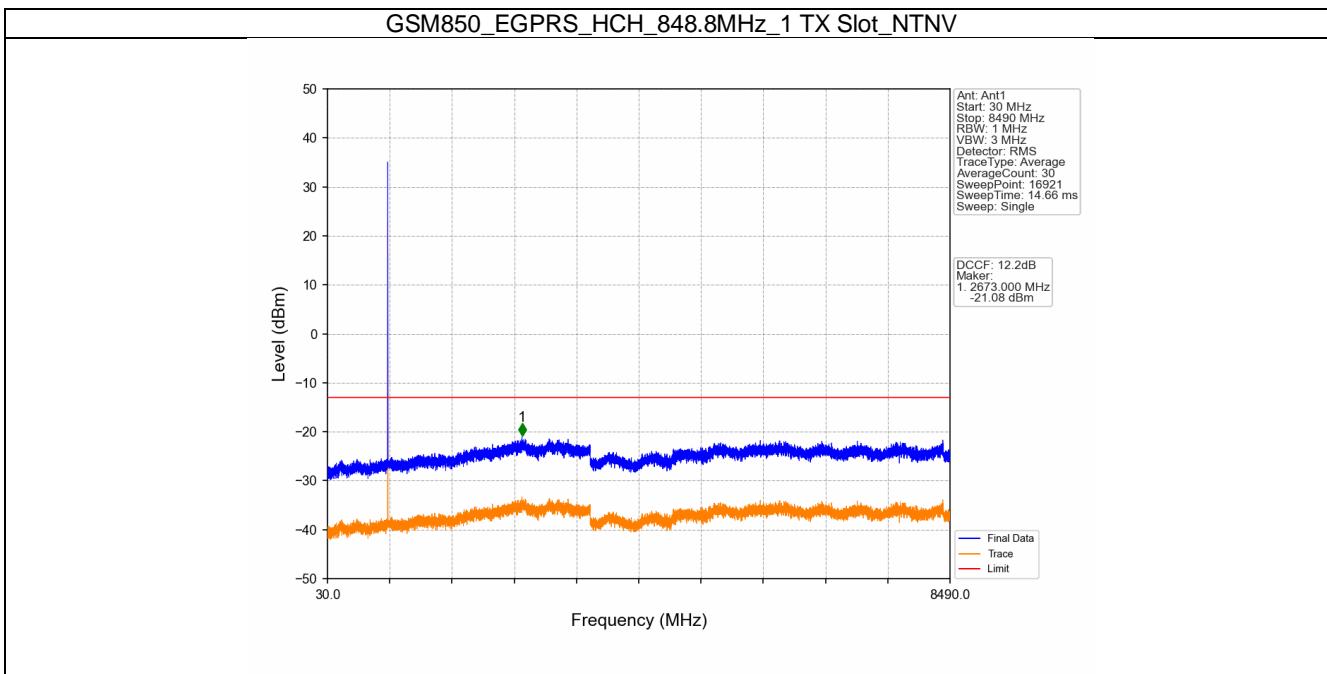
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