



Appendix B.1 for KSEM2108001480CR-GSM 850

1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 Test Result

Band: GSM850									
ENV	Mode		Frequency (MHz)	Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	GSM	GSM	824.2	32.78	-0.60	30.03	<=38.45	Pass	
			836.6	32.58	-0.60	29.83	<=38.45	Pass	
			848.8	32.61	-0.60	29.86	<=38.45	Pass	
	GPRS	1 TX Slot	824.2	32.67	-0.60	29.92	<=38.45	Pass	
			2 TX Slots	824.2	29.49	-0.60	26.74	<=38.45	Pass
			3 TX Slots	824.2	27.48	-0.60	24.73	<=38.45	Pass
			4 TX Slots	824.2	26.18	-0.60	23.43	<=38.45	Pass
		2 TX Slots	836.6	32.55	-0.60	29.80	<=38.45	Pass	
			2 TX Slots	836.6	29.38	-0.60	26.63	<=38.45	Pass
			3 TX Slots	836.6	27.27	-0.60	24.52	<=38.45	Pass
			4 TX Slots	836.6	25.97	-0.60	23.22	<=38.45	Pass
		3 TX Slots	848.8	32.63	-0.60	29.88	<=38.45	Pass	
			2 TX Slots	848.8	29.34	-0.60	26.59	<=38.45	Pass
			3 TX Slots	848.8	27.32	-0.60	24.57	<=38.45	Pass
			4 TX Slots	848.8	25.95	-0.60	23.20	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	27.30	-0.60	24.55	<=38.45	Pass	
			2 TX Slots	824.2	24.63	-0.60	21.88	<=38.45	Pass
			3 TX Slots	824.2	22.93	-0.60	20.18	<=38.45	Pass
			4 TX Slots	824.2	21.39	-0.60	18.64	<=38.45	Pass
		2 TX Slots	836.6	27.09	-0.60	24.34	<=38.45	Pass	
			2 TX Slots	836.6	24.43	-0.60	21.68	<=38.45	Pass
			3 TX Slots	836.6	22.62	-0.60	19.87	<=38.45	Pass
			4 TX Slots	836.6	21.28	-0.60	18.53	<=38.45	Pass
		3 TX Slots	848.8	28.06	-0.60	25.31	<=38.45	Pass	
			2 TX Slots	848.8	24.40	-0.60	21.65	<=38.45	Pass
			3 TX Slots	848.8	22.44	-0.60	19.69	<=38.45	Pass
			4 TX Slots	848.8	21.20	-0.60	18.45	<=38.45	Pass

Note1: ERP=Power+Antenna Gain-2.15

Remark1:

For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Power [dBm] + Gain [dBd]

EIRP [dBm] = Power [dBm] + Gain [dBi]



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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	25.02	0.03	-2.5 to 2.5	Pass		
			3.85	30.28	0.04	-2.5 to 2.5	Pass		
			4.43	23.50	0.03	-2.5 to 2.5	Pass		
		-30	3.85	29.86	0.04	-2.5 to 2.5	Pass		
			-20	3.85	23.79	0.03	-2.5 to 2.5	Pass	
				3.85	22.57	0.03	-2.5 to 2.5	Pass	
			0	3.85	23.70	0.03	-2.5 to 2.5	Pass	
				10	3.85	21.02	0.03	-2.5 to 2.5	Pass
				30	3.85	23.21	0.03	-2.5 to 2.5	Pass
			50	3.85	27.80	0.03	-2.5 to 2.5	Pass	
	3.85	21.70		0.03	-2.5 to 2.5	Pass			
	3.85	20.76		0.02	-2.5 to 2.5	Pass			
	836.6	20	3.85	21.99	0.03	-2.5 to 2.5	Pass		
			4.43	22.63	0.03	-2.5 to 2.5	Pass		
			3.85	21.86	0.03	-2.5 to 2.5	Pass		
		-30	3.85	25.51	0.03	-2.5 to 2.5	Pass		
			3.85	23.83	0.03	-2.5 to 2.5	Pass		
		-10	3.85	22.99	0.03	-2.5 to 2.5	Pass		
			10	3.85	21.89	0.03	-2.5 to 2.5	Pass	
			30	3.85	25.18	0.03	-2.5 to 2.5	Pass	
		50	3.85	23.25	0.03	-2.5 to 2.5	Pass		
			3.85	24.12	0.03	-2.5 to 2.5	Pass		
	20		3.27	31.25	0.04	-2.5 to 2.5	Pass		
			3.85	29.02	0.03	-2.5 to 2.5	Pass		
		4.43	29.41	0.03	-2.5 to 2.5	Pass			
	848.8	-30	3.85	25.51	0.03	-2.5 to 2.5	Pass		
			-20	3.85	29.67	0.04	-2.5 to 2.5	Pass	
				3.85	27.09	0.03	-2.5 to 2.5	Pass	
		-10	3.85	31.19	0.04	-2.5 to 2.5	Pass		
			10	3.85	28.67	0.03	-2.5 to 2.5	Pass	
30			3.85	28.93	0.03	-2.5 to 2.5	Pass		
50		3.85	29.61	0.03	-2.5 to 2.5	Pass			
		3.85	31.54	0.04	-2.5 to 2.5	Pass			
		20	3.27	33.61	0.04	-2.5 to 2.5	Pass		
			3.85	37.06	0.04	-2.5 to 2.5	Pass		
GPRS	824.2	20	3.27	33.61	0.04	-2.5 to 2.5	Pass		
			3.85	37.06	0.04	-2.5 to 2.5	Pass		



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			4.43	37.90	0.05	-2.5 to 2.5	Pass	
		-30	3.85	37.65	0.05	-2.5 to 2.5	Pass	
		-20	3.85	38.39	0.05	-2.5 to 2.5	Pass	
		-10	3.85	35.77	0.04	-2.5 to 2.5	Pass	
		0	3.85	35.26	0.04	-2.5 to 2.5	Pass	
		10	3.85	40.20	0.05	-2.5 to 2.5	Pass	
		30	3.85	37.84	0.05	-2.5 to 2.5	Pass	
		40	3.85	40.62	0.05	-2.5 to 2.5	Pass	
	50	3.85	40.55	0.05	-2.5 to 2.5	Pass		
	836.6	20		3.27	37.23	0.04	-2.5 to 2.5	Pass
				3.85	38.16	0.05	-2.5 to 2.5	Pass
				4.43	40.74	0.05	-2.5 to 2.5	Pass
		-30	3.85	39.29	0.05	-2.5 to 2.5	Pass	
		-20	3.85	37.58	0.04	-2.5 to 2.5	Pass	
		-10	3.85	40.81	0.05	-2.5 to 2.5	Pass	
		0	3.85	37.23	0.04	-2.5 to 2.5	Pass	
		10	3.85	37.87	0.05	-2.5 to 2.5	Pass	
		30	3.85	39.32	0.05	-2.5 to 2.5	Pass	
		40	3.85	38.74	0.05	-2.5 to 2.5	Pass	
	50	3.85	38.36	0.05	-2.5 to 2.5	Pass		
	848.8	20		3.27	31.38	0.04	-2.5 to 2.5	Pass
				3.85	35.00	0.04	-2.5 to 2.5	Pass
				4.43	34.77	0.04	-2.5 to 2.5	Pass
		-30	3.85	37.81	0.04	-2.5 to 2.5	Pass	
		-20	3.85	38.48	0.05	-2.5 to 2.5	Pass	
		-10	3.85	40.23	0.05	-2.5 to 2.5	Pass	
		0	3.85	34.74	0.04	-2.5 to 2.5	Pass	
		10	3.85	36.26	0.04	-2.5 to 2.5	Pass	
30		3.85	35.90	0.04	-2.5 to 2.5	Pass		
40		3.85	37.65	0.04	-2.5 to 2.5	Pass		
50	3.85	35.87	0.04	-2.5 to 2.5	Pass			
EGPRS	824.2	20		3.27	45.14	0.05	-2.5 to 2.5	Pass
				3.85	43.26	0.05	-2.5 to 2.5	Pass
				4.43	44.72	0.05	-2.5 to 2.5	Pass
		-30	3.85	43.04	0.05	-2.5 to 2.5	Pass	
		-20	3.85	43.07	0.05	-2.5 to 2.5	Pass	
		-10	3.85	45.30	0.06	-2.5 to 2.5	Pass	
		0	3.85	43.04	0.05	-2.5 to 2.5	Pass	
		10	3.85	43.17	0.05	-2.5 to 2.5	Pass	
		30	3.85	44.01	0.05	-2.5 to 2.5	Pass	
	40	3.85	43.04	0.05	-2.5 to 2.5	Pass		
	50	3.85	40.52	0.05	-2.5 to 2.5	Pass		
	836.6	20		3.27	43.00	0.05	-2.5 to 2.5	Pass
				3.85	39.23	0.05	-2.5 to 2.5	Pass
				4.43	39.78	0.05	-2.5 to 2.5	Pass
		-30	3.85	36.87	0.04	-2.5 to 2.5	Pass	
		-20	3.85	36.13	0.04	-2.5 to 2.5	Pass	
		-10	3.85	35.00	0.04	-2.5 to 2.5	Pass	



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		0	3.85	38.61	0.05	-2.5 to 2.5	Pass
		10	3.85	35.45	0.04	-2.5 to 2.5	Pass
		30	3.85	36.26	0.04	-2.5 to 2.5	Pass
		40	3.85	34.90	0.04	-2.5 to 2.5	Pass
		50	3.85	36.45	0.04	-2.5 to 2.5	Pass
	848.8	20	3.27	40.78	0.05	-2.5 to 2.5	Pass
			3.85	42.52	0.05	-2.5 to 2.5	Pass
			4.43	39.42	0.05	-2.5 to 2.5	Pass
		-30	3.85	39.29	0.05	-2.5 to 2.5	Pass
		-20	3.85	37.13	0.04	-2.5 to 2.5	Pass
		-10	3.85	40.26	0.05	-2.5 to 2.5	Pass
		0	3.85	39.84	0.05	-2.5 to 2.5	Pass
		10	3.85	40.16	0.05	-2.5 to 2.5	Pass
		30	3.85	37.32	0.04	-2.5 to 2.5	Pass
		40	3.85	39.16	0.05	-2.5 to 2.5	Pass
		50	3.85	40.49	0.05	-2.5 to 2.5	Pass



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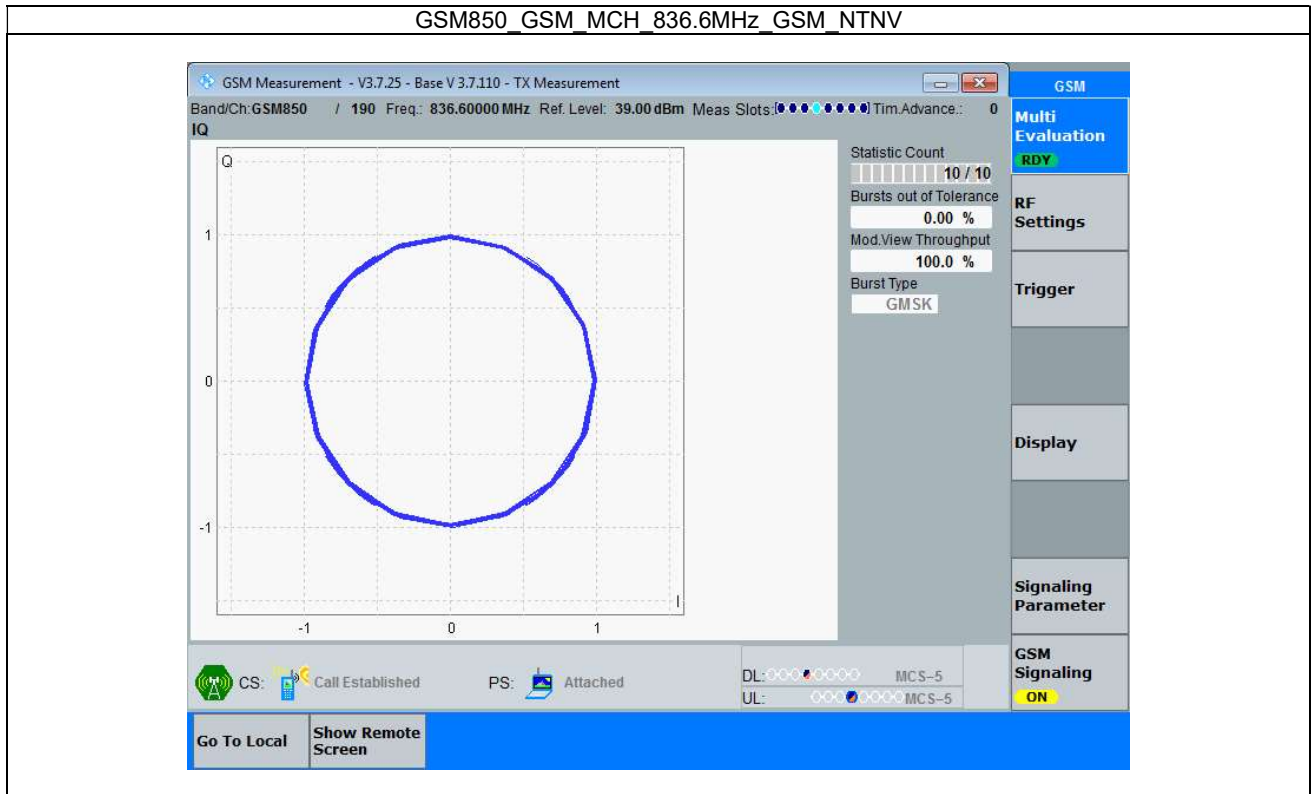
3. Modulation Characteristics

3.1 GSM850

3.1.1 Test Result

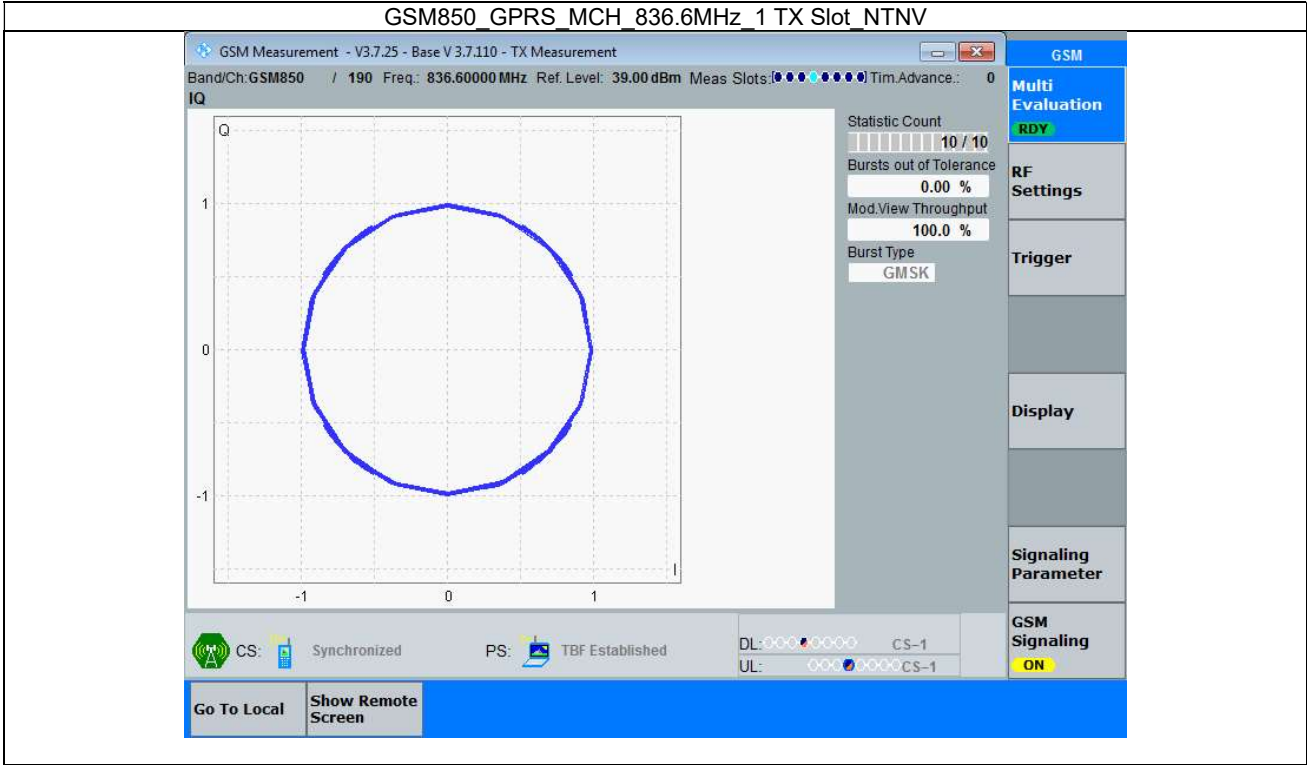
Band: GSM850						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	836.6	Refer To Test Graph		Pass
	GPRS	1 TX Slot	836.6	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	836.6	Refer To Test Graph		Pass

3.1.2 Test Graph



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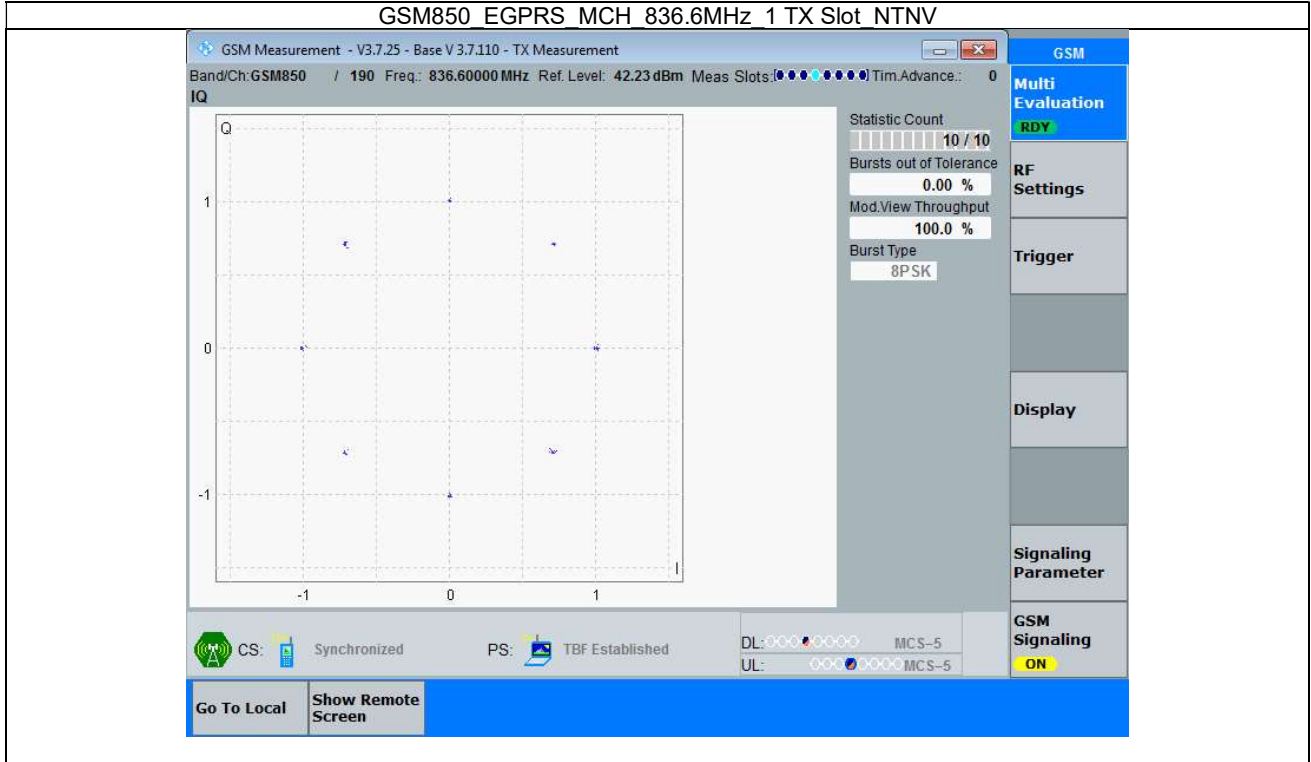
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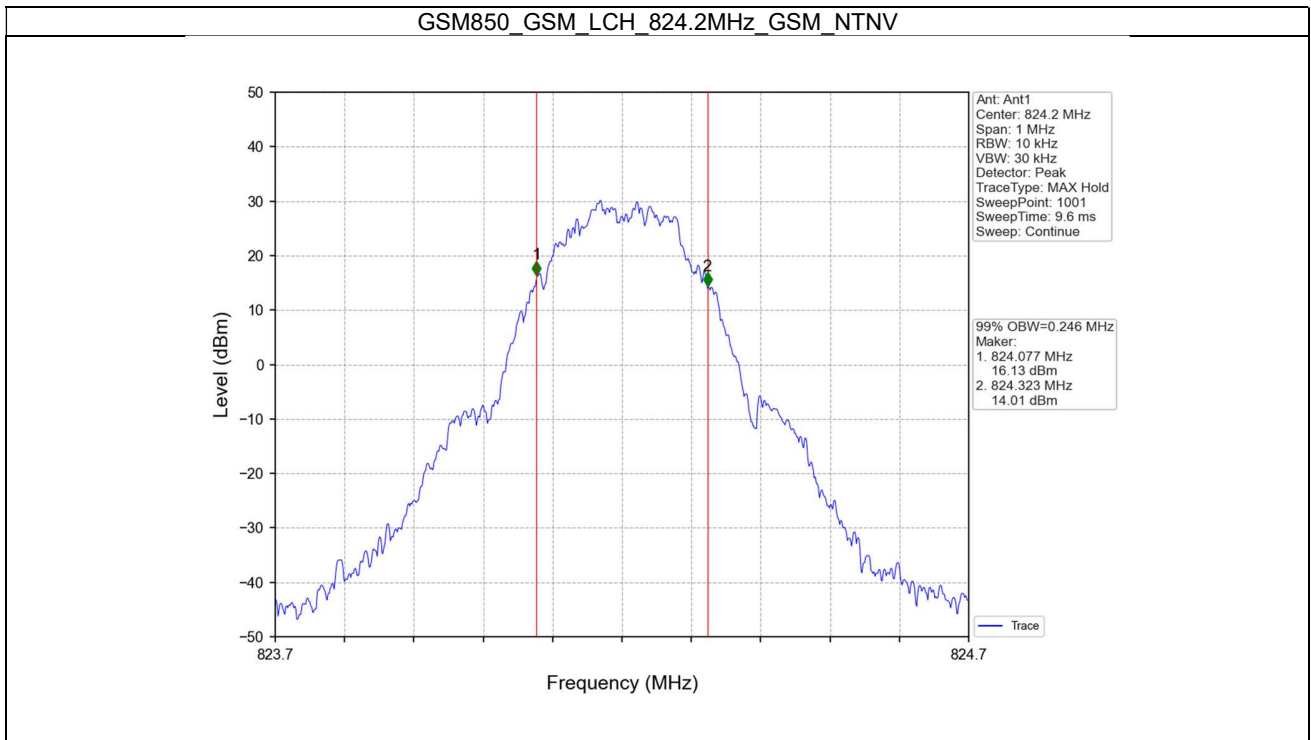
4. 99% & 26dB Bandwidth

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	0.246	Pass
			836.6	0.243	Pass
			848.8	0.245	Pass
	GPRS	1 TX Slot	824.2	0.240	Pass
			836.6	0.244	Pass
			848.8	0.248	Pass
	EGPRS	1 TX Slot	824.2	0.230	Pass
			836.6	0.246	Pass
			848.8	0.245	Pass

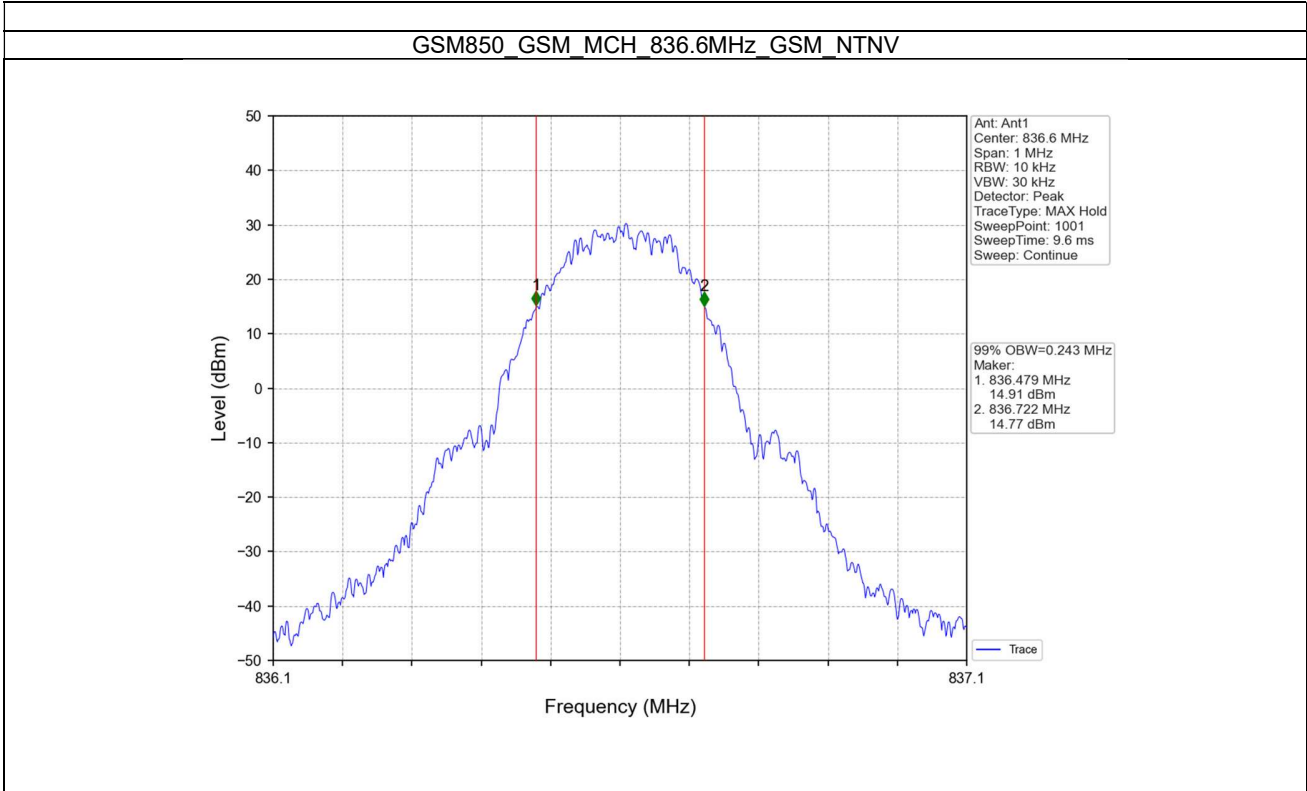
4.1.2 Test Graph



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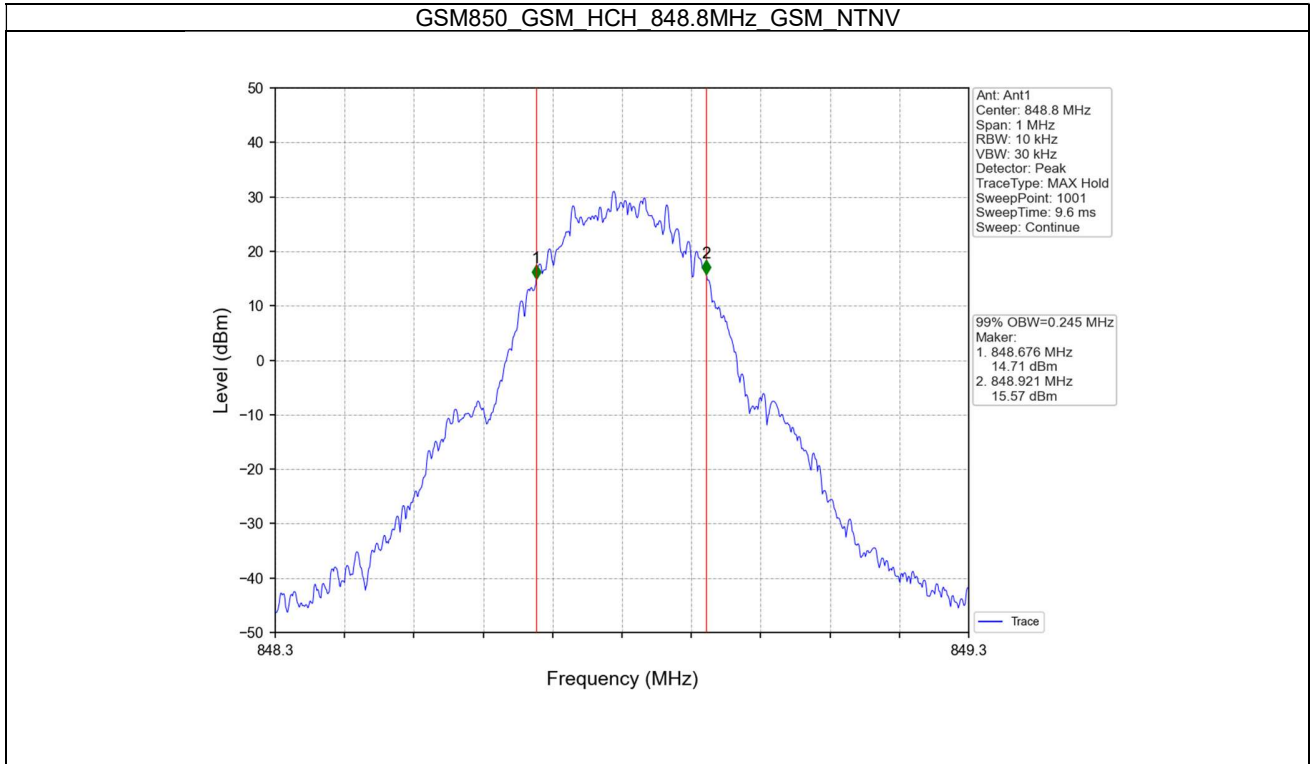
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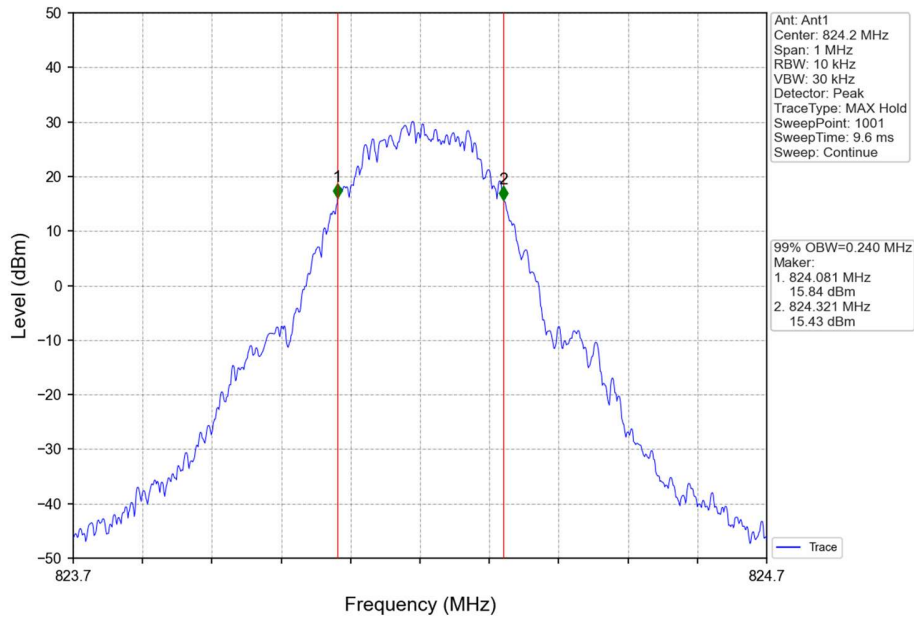


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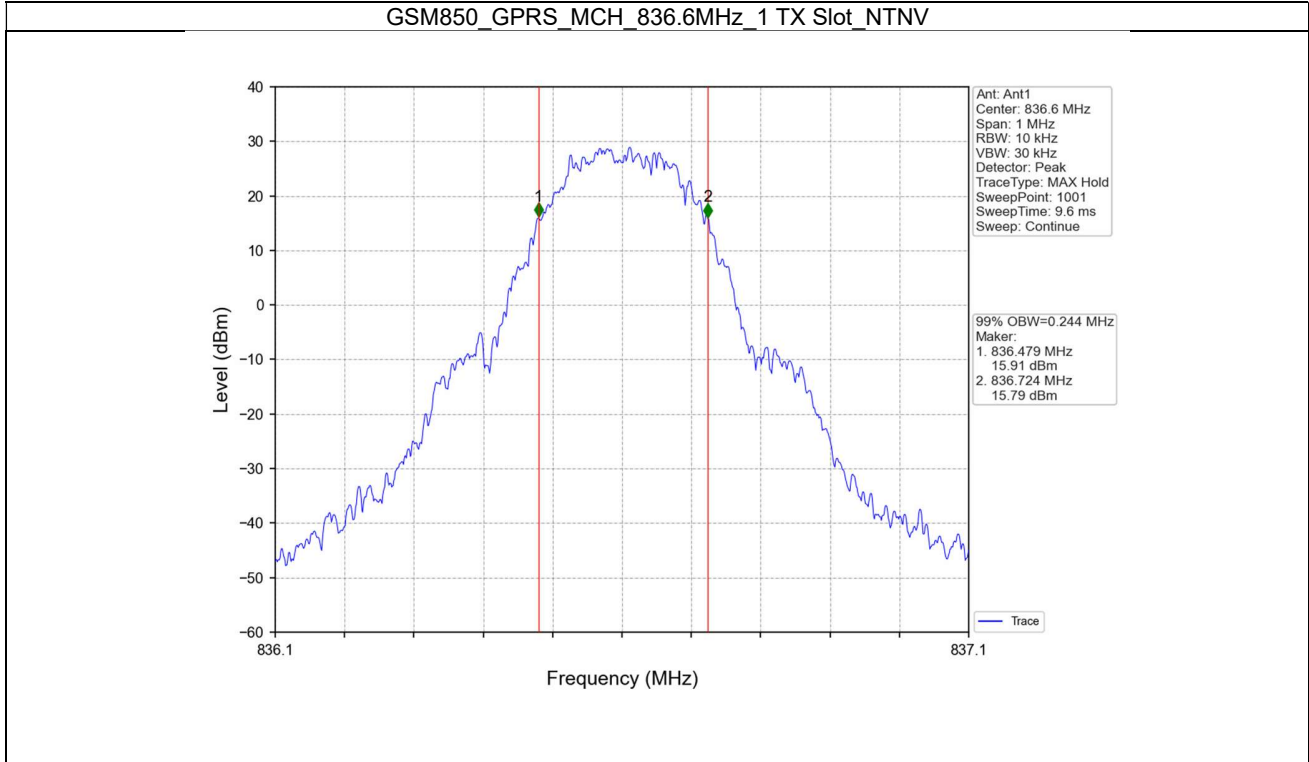
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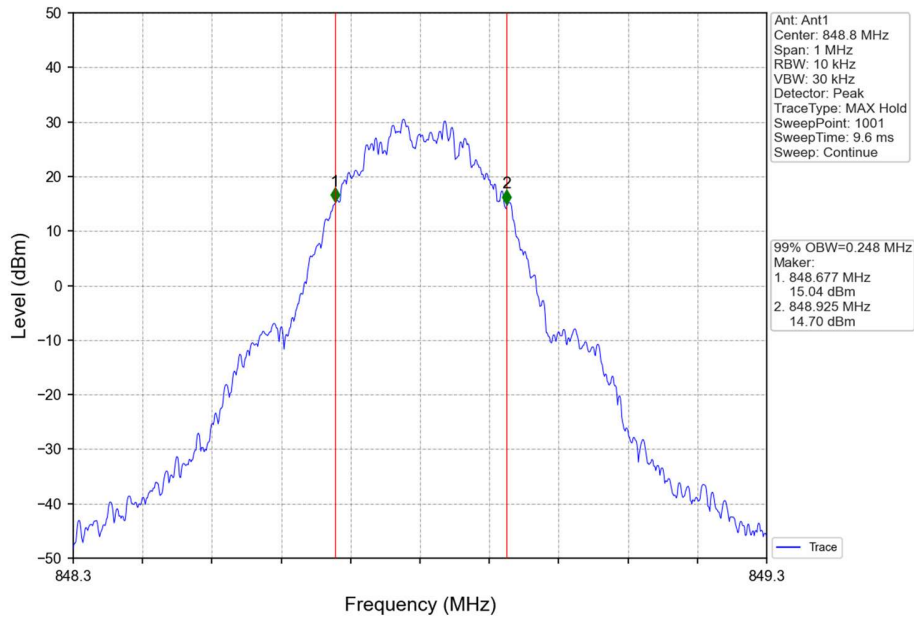
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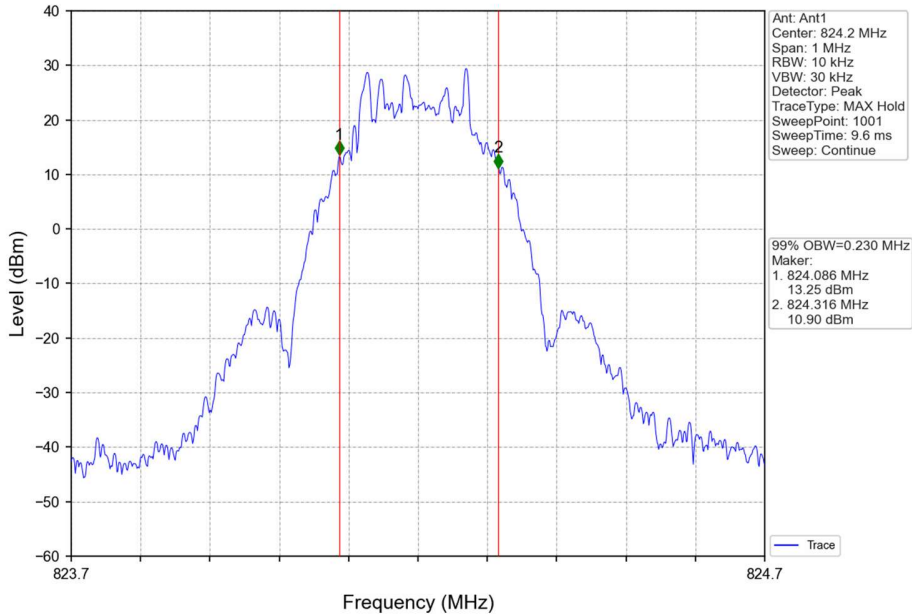
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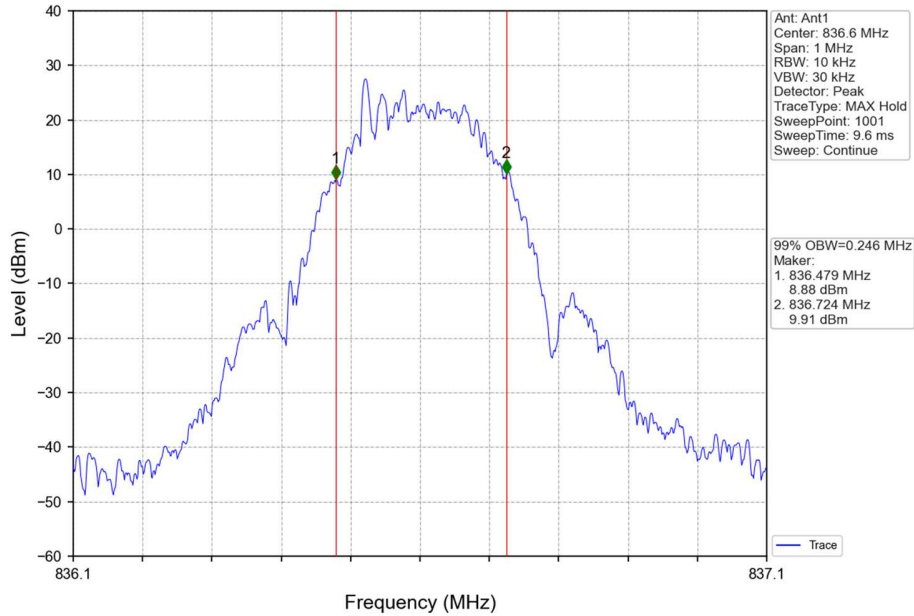
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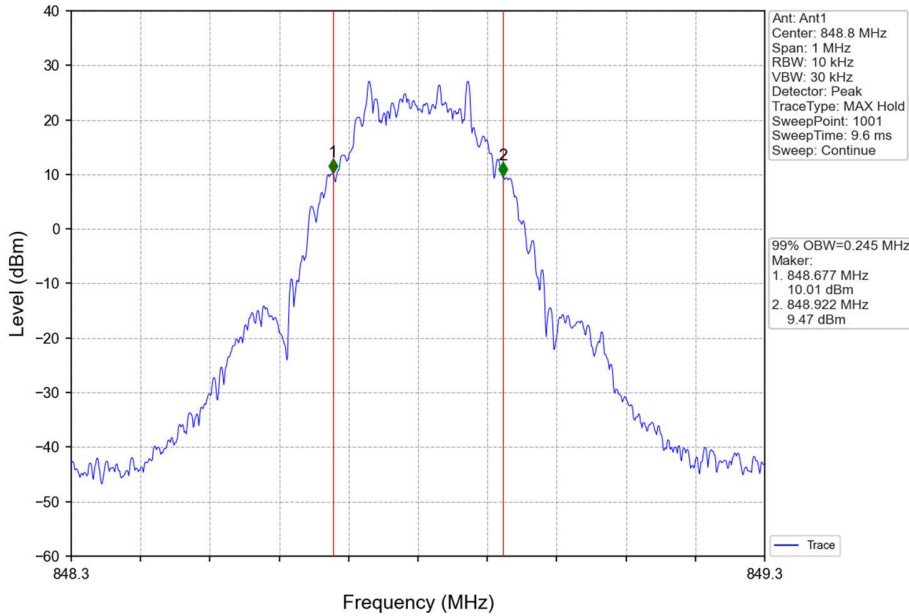
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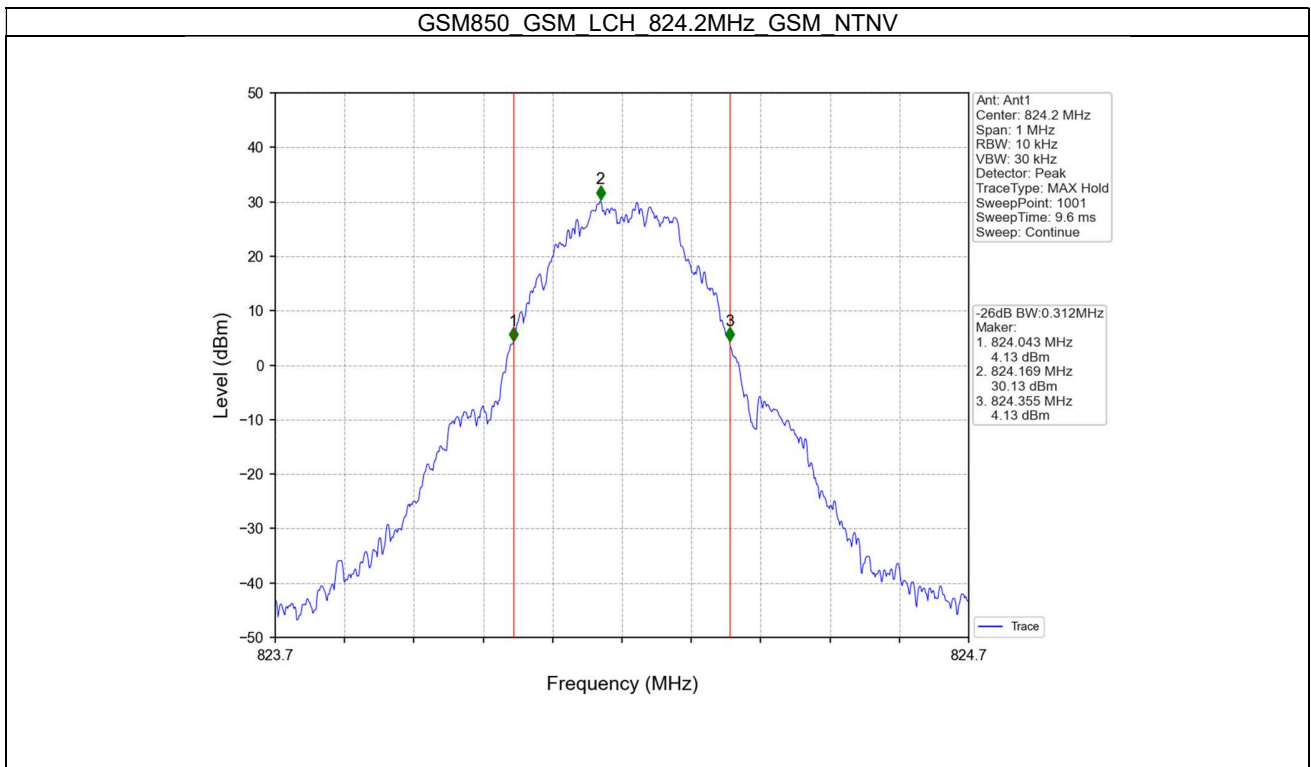
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4.2 GSM850_XDB

4.2.1 Test Result

Band: GSM850					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	824.2	0.312	Pass
			836.6	0.316	Pass
			848.8	0.309	Pass
	GPRS	1 TX Slot	824.2	0.313	Pass
			836.6	0.324	Pass
			848.8	0.316	Pass
	EGPRS	1 TX Slot	824.2	0.293	Pass
			836.6	0.304	Pass
			848.8	0.311	Pass

4.2.2 Test Graph



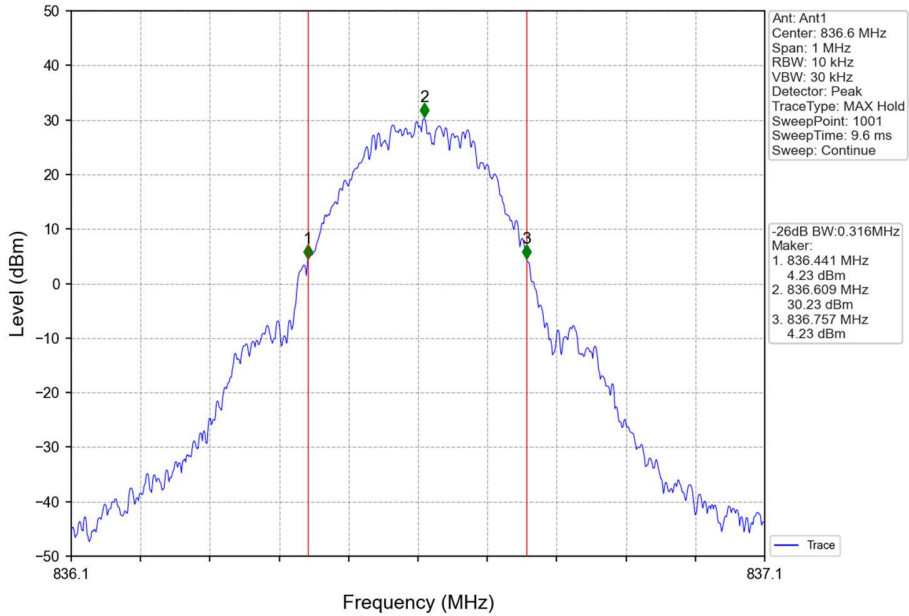
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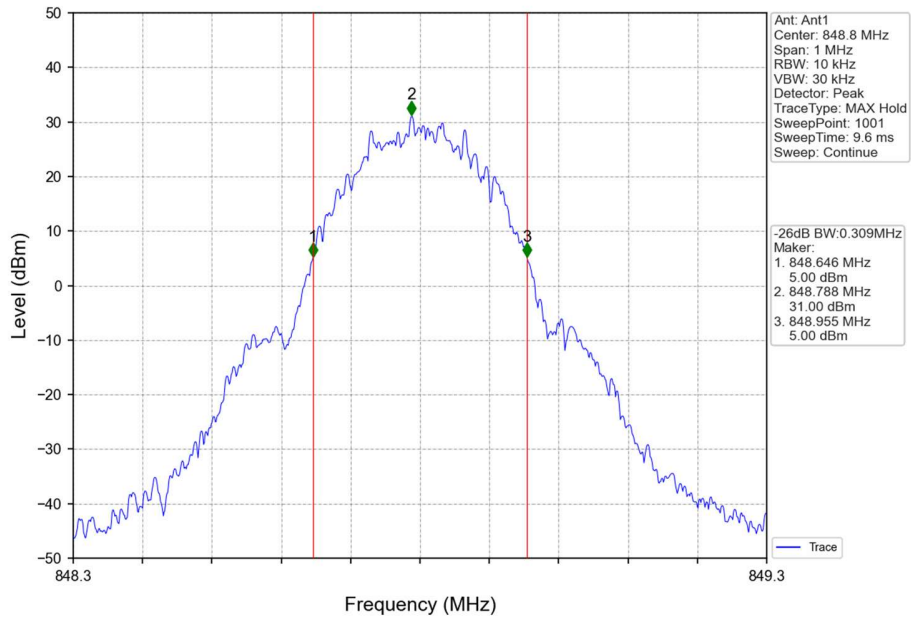
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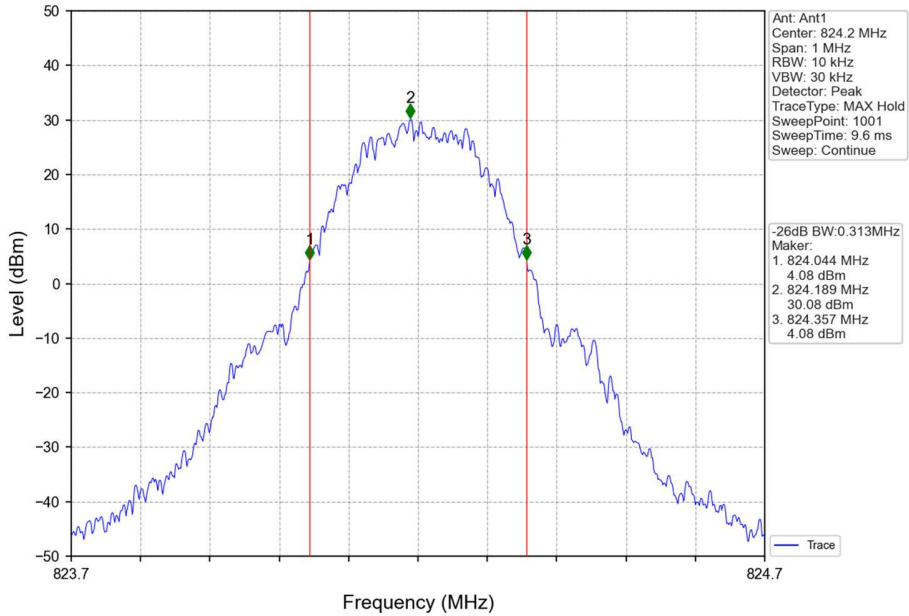


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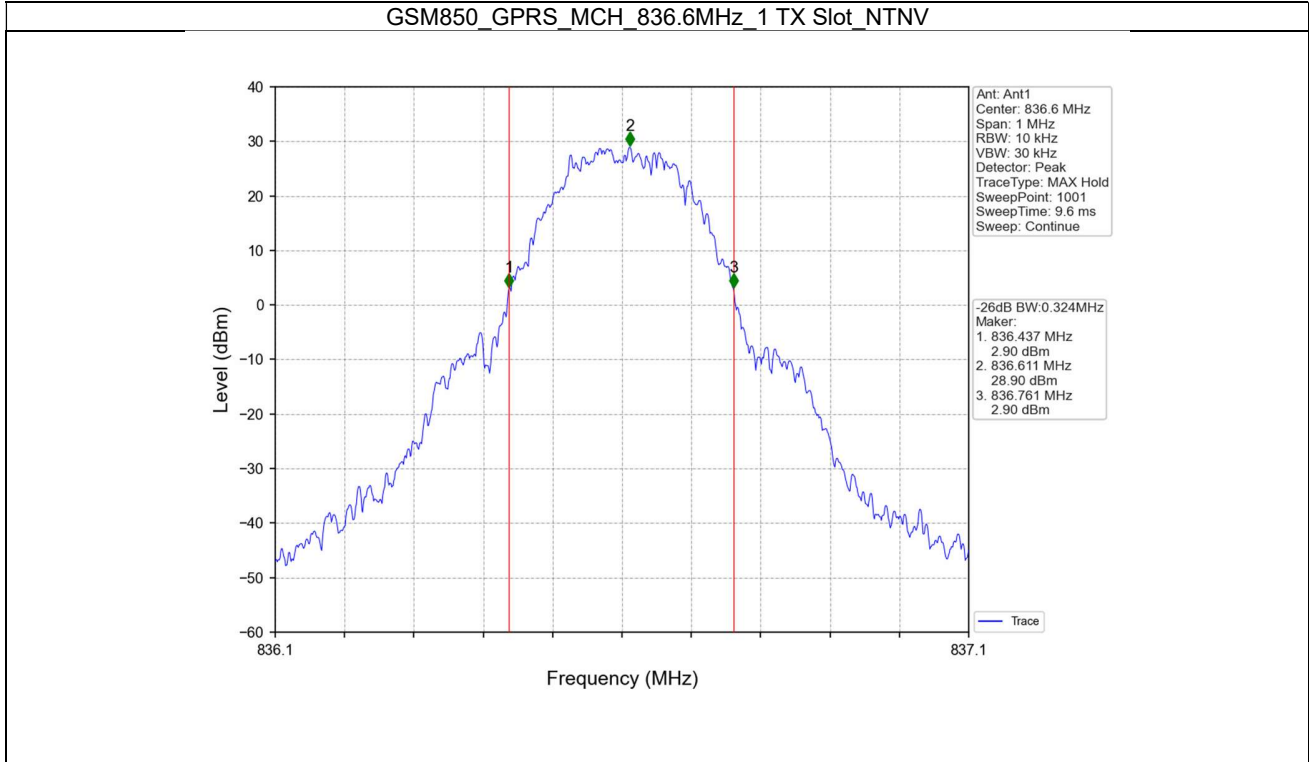


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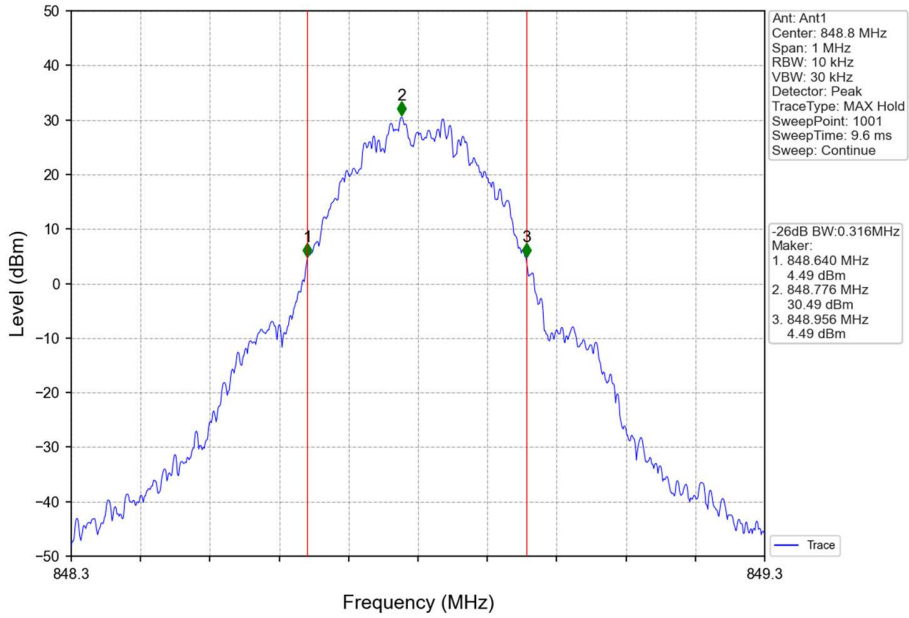
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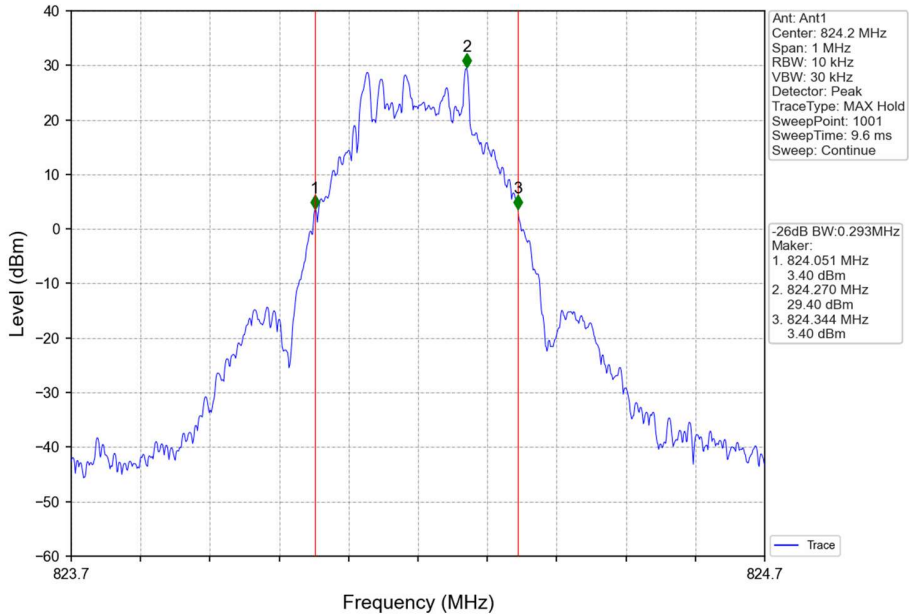
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GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV

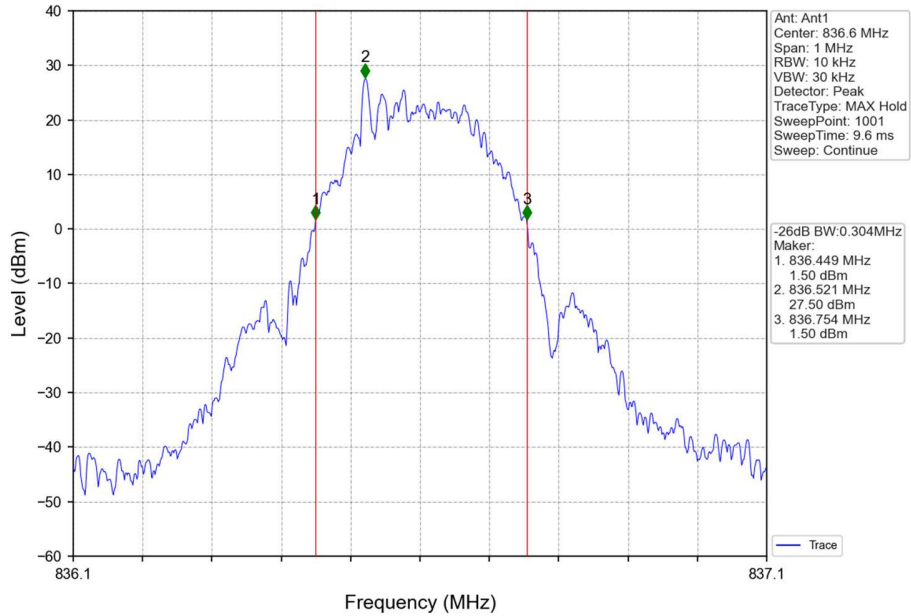


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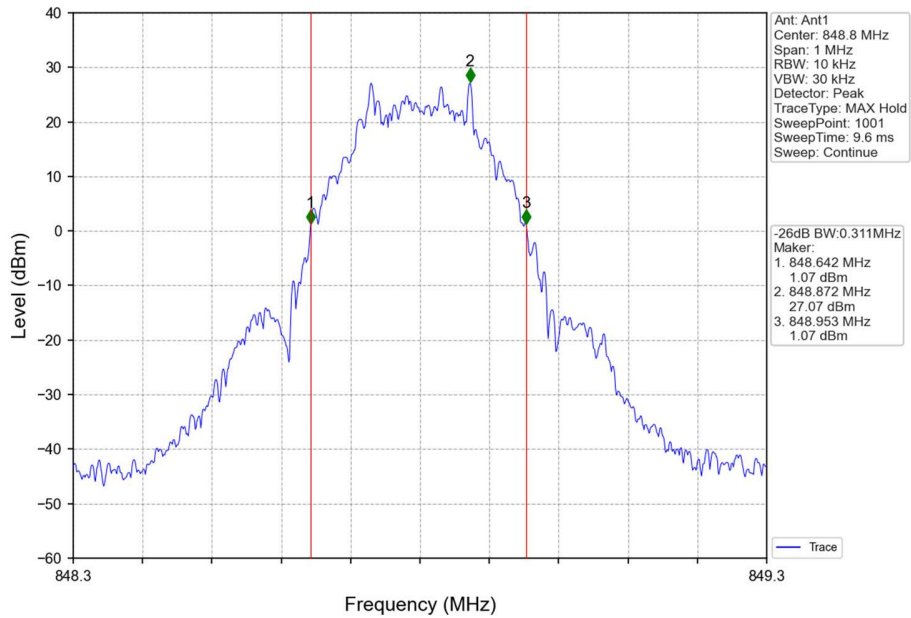


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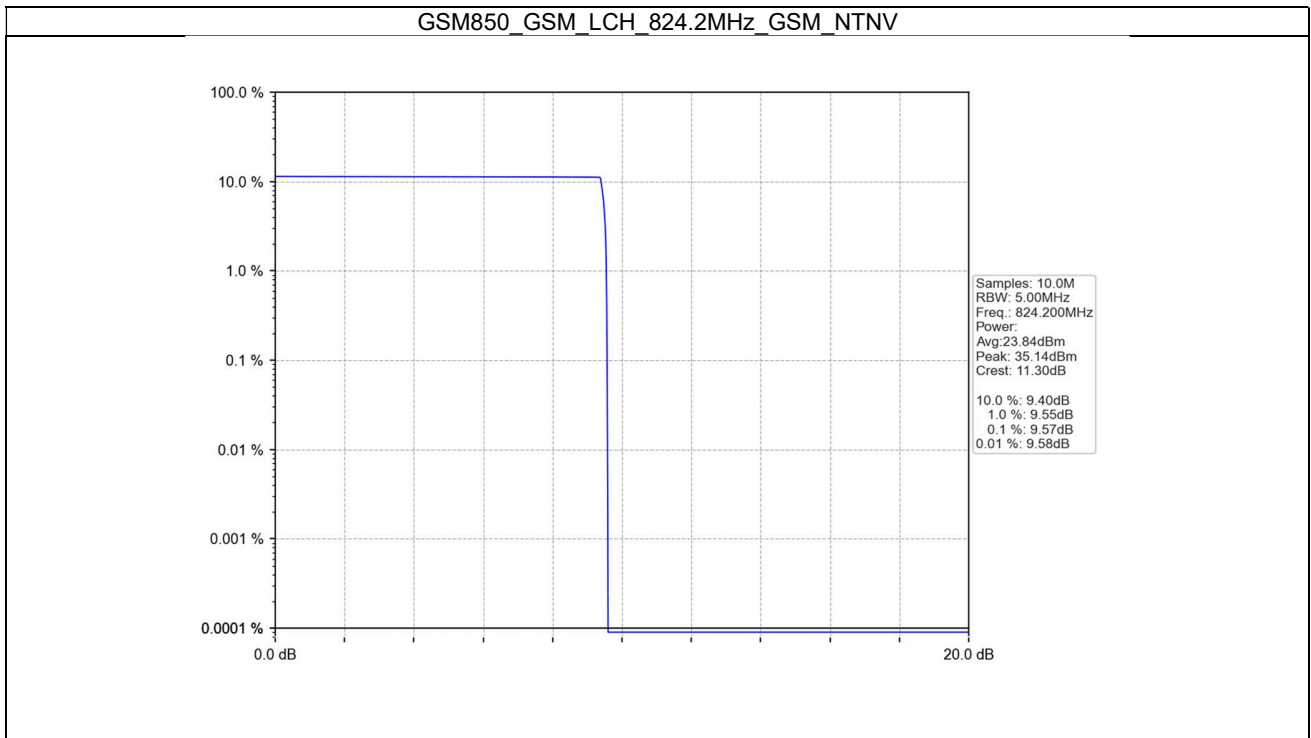
5. Peak-Average Ratio

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	9.57	<=13	Pass
			836.6	9.46	<=13	Pass
			848.8	9.59	<=13	Pass
	GPRS	4 TX Slots	824.2	3.67	<=13	Pass
			836.6	3.78	<=13	Pass
			848.8	3.74	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.41	<=13	Pass
			836.6	8.39	<=13	Pass
			848.8	8.45	<=13	Pass

5.1.2 Test Graph



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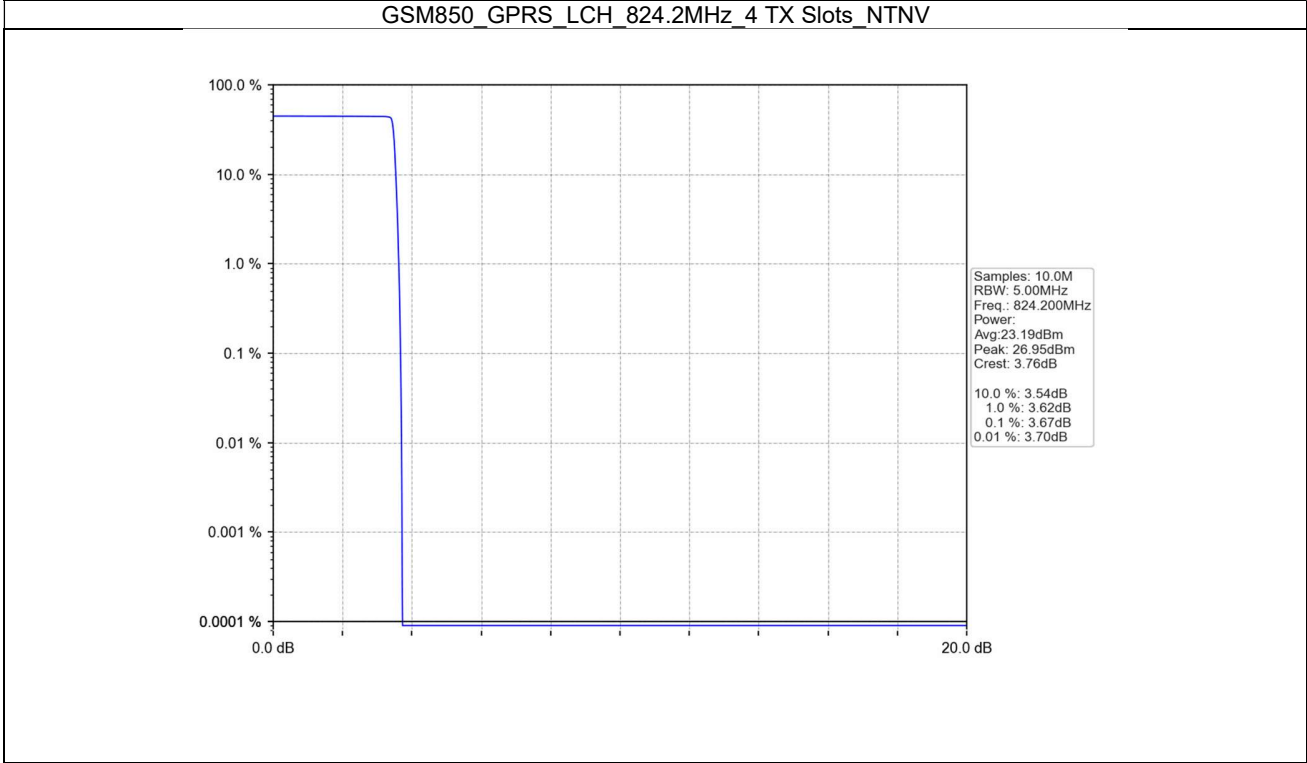
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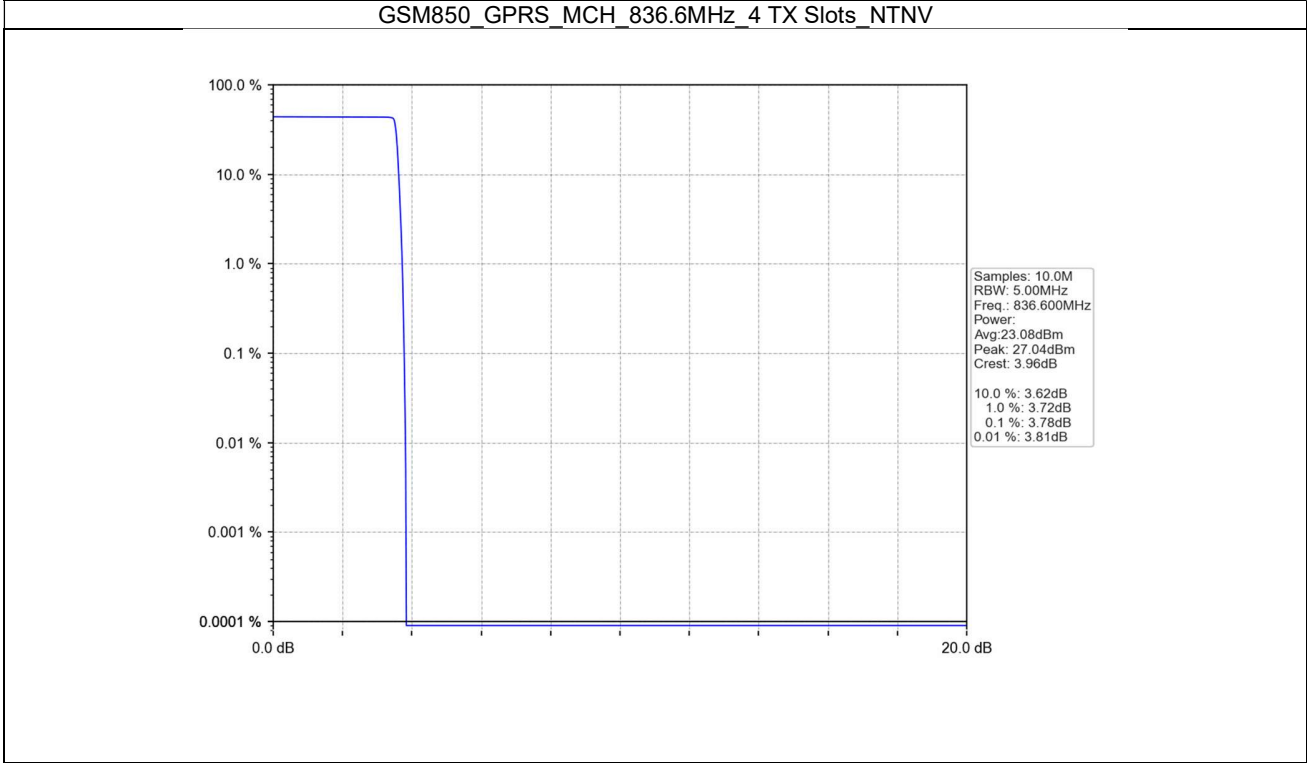
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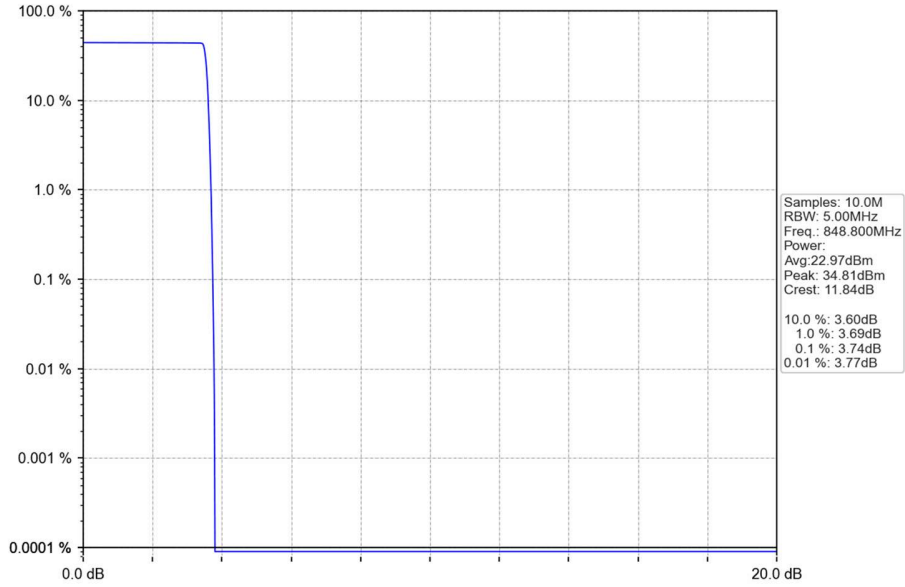
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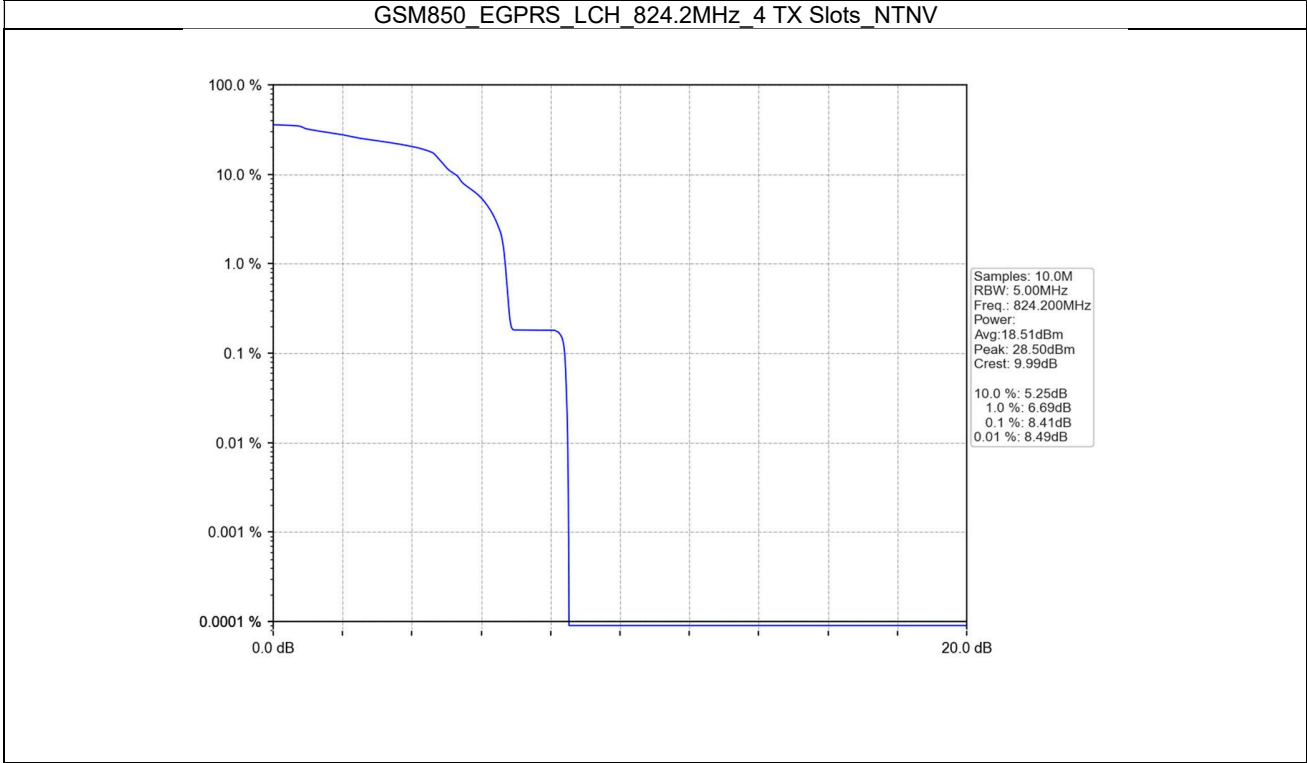
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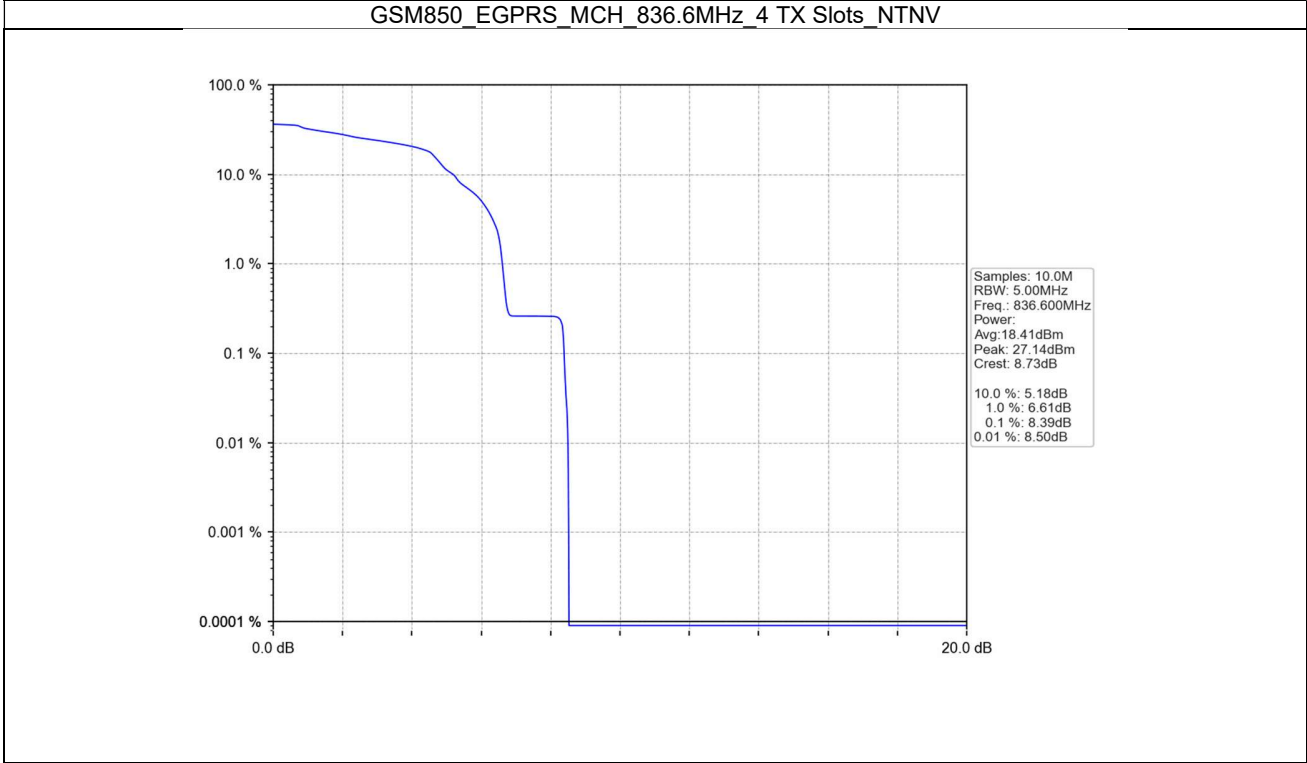
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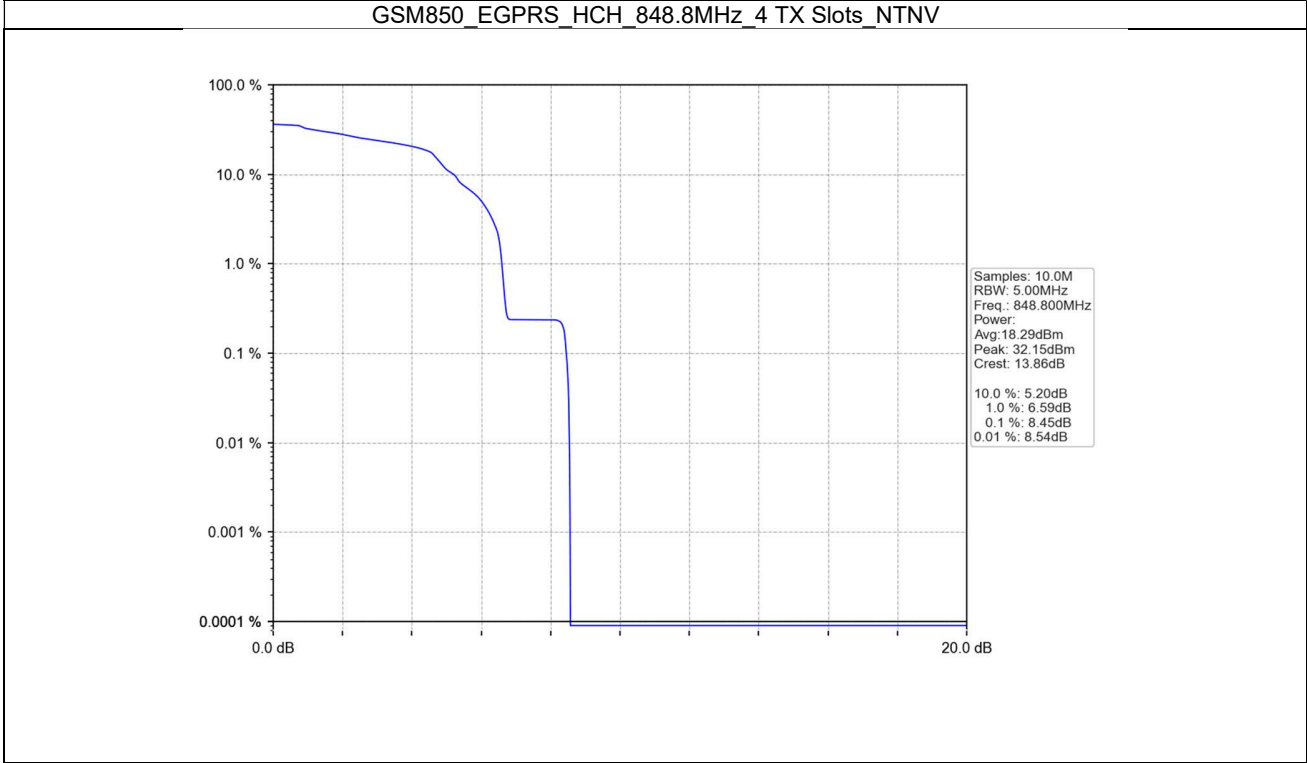
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6. Spurious Emission

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

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.



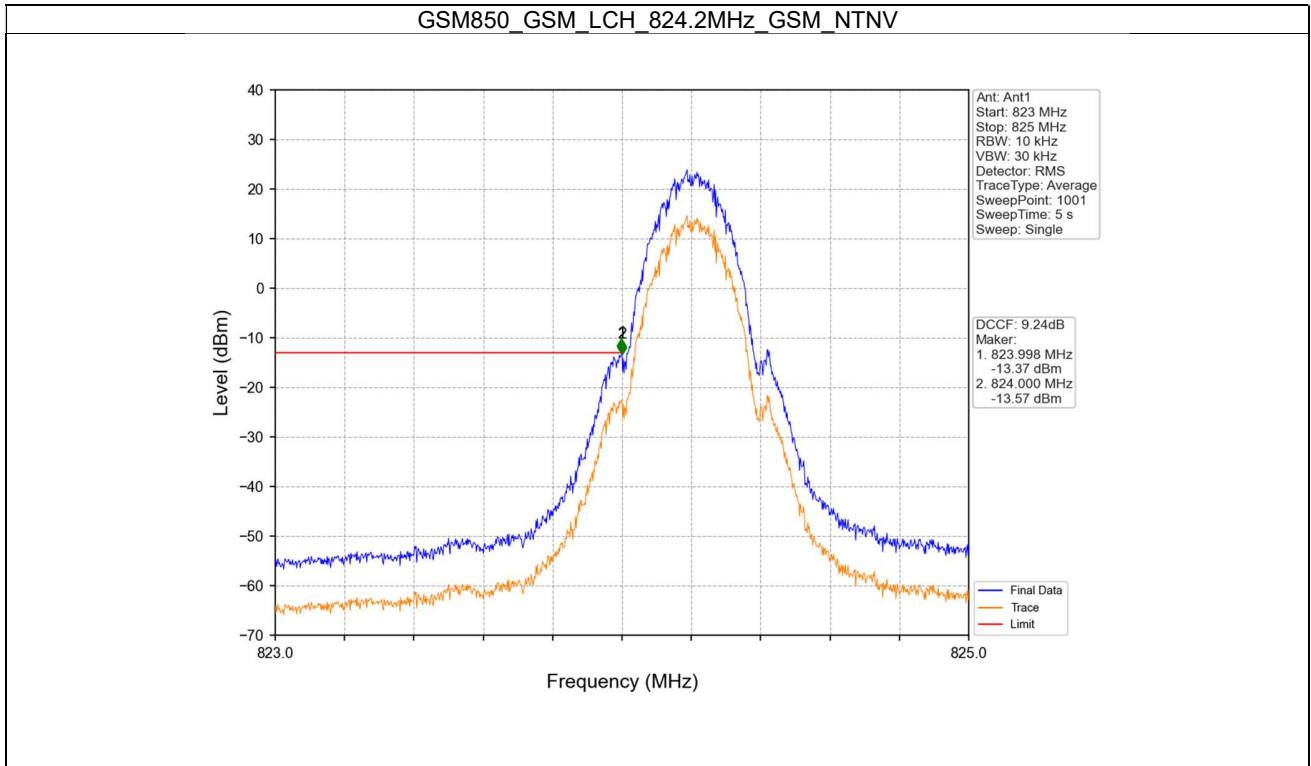
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6.1.2 Test Graph



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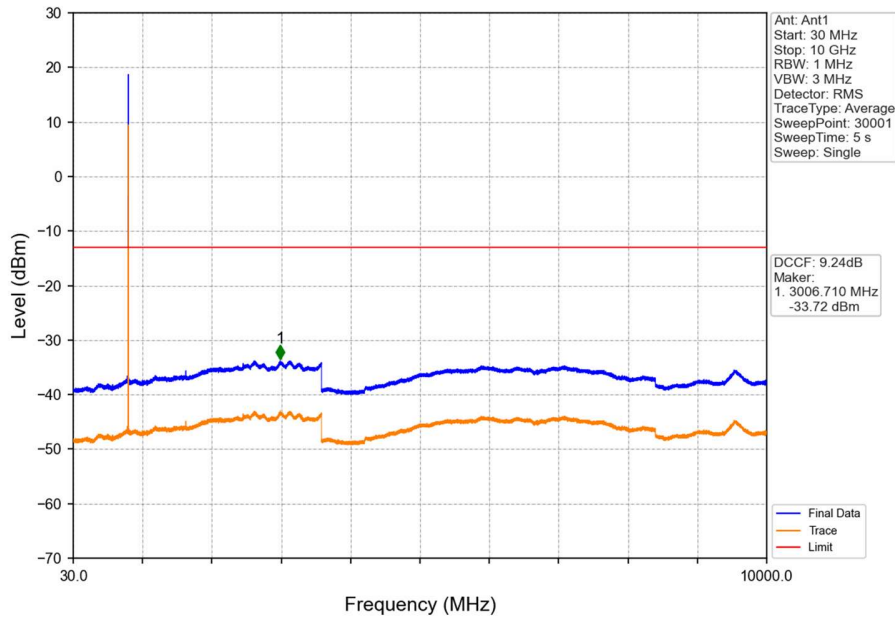
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GSM850 GSM_LCH_824.2MHz GSM_NTNV



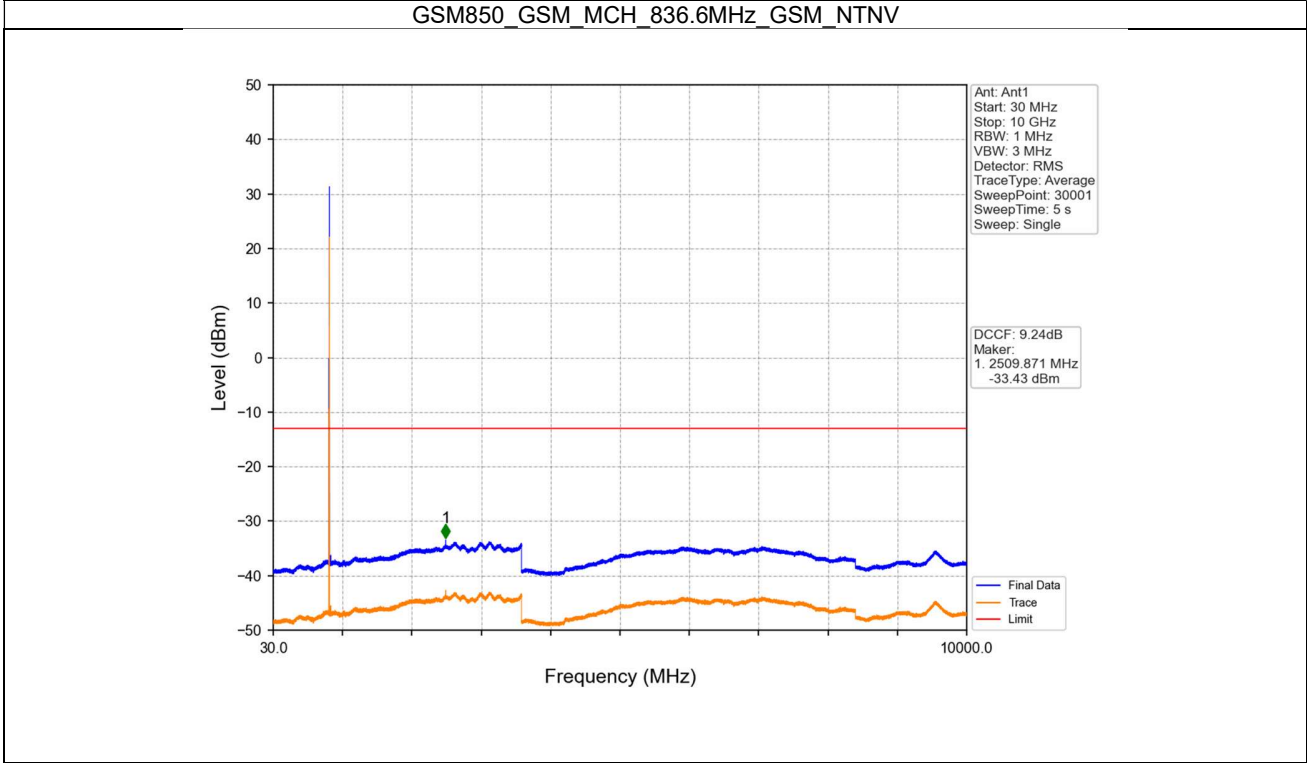
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GSM850_GSM_MCH_836.6MHz_GSM_NTNV

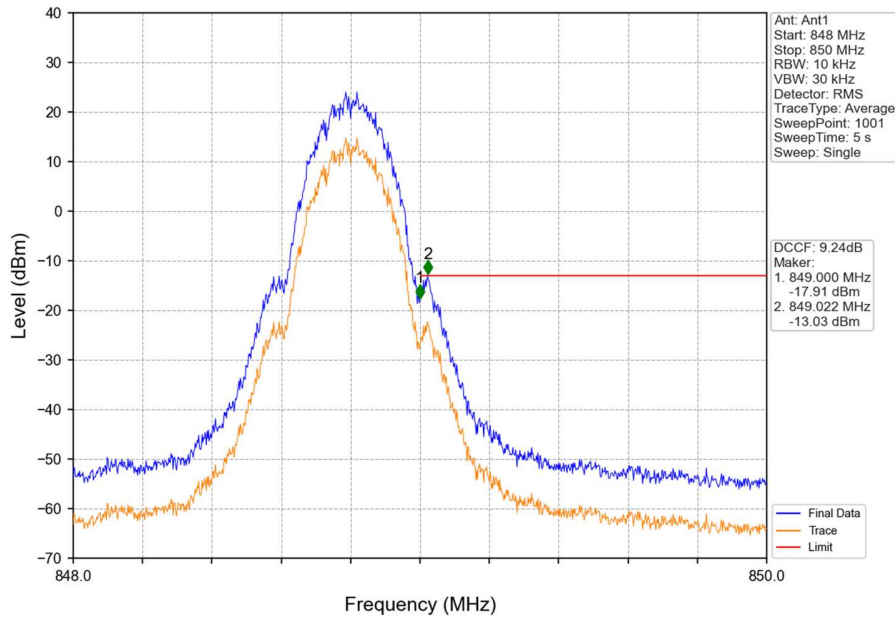


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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



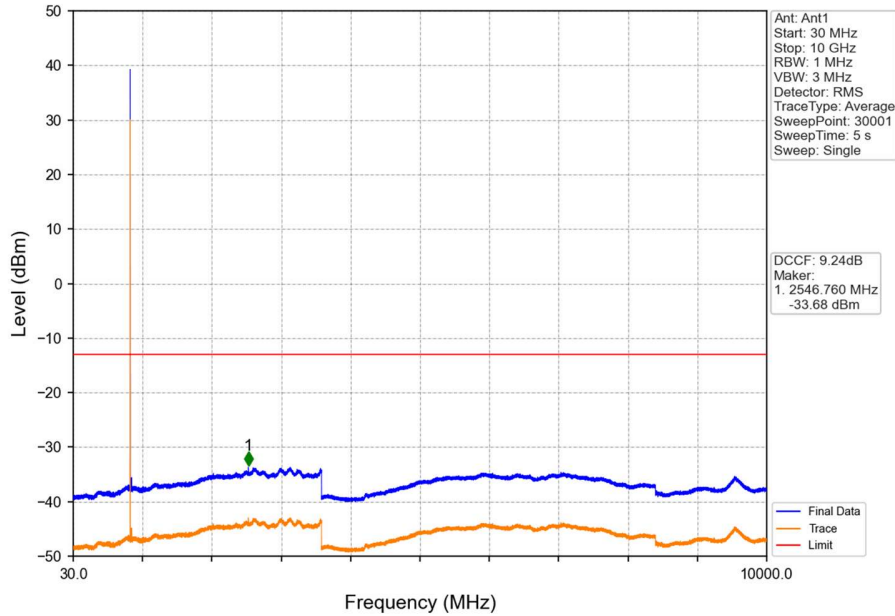
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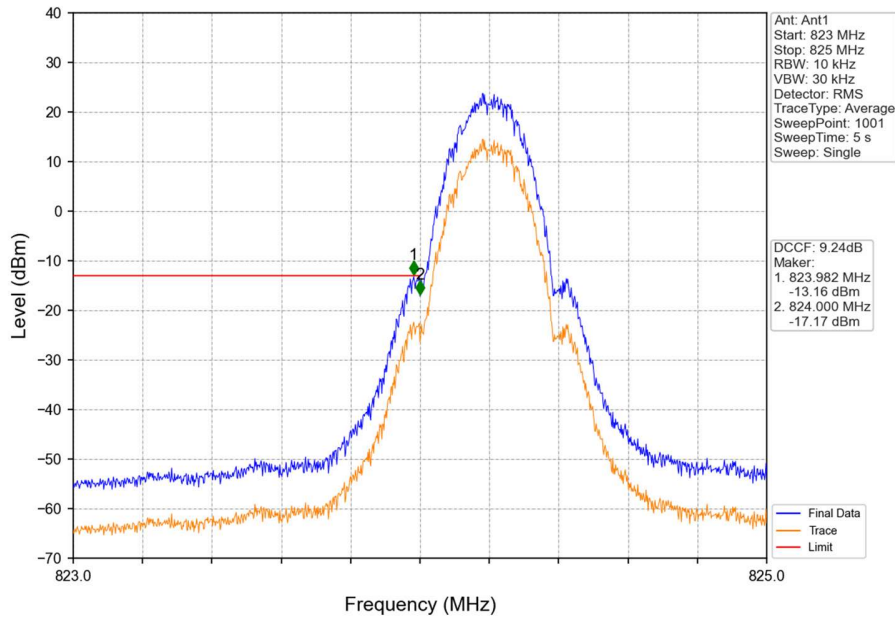


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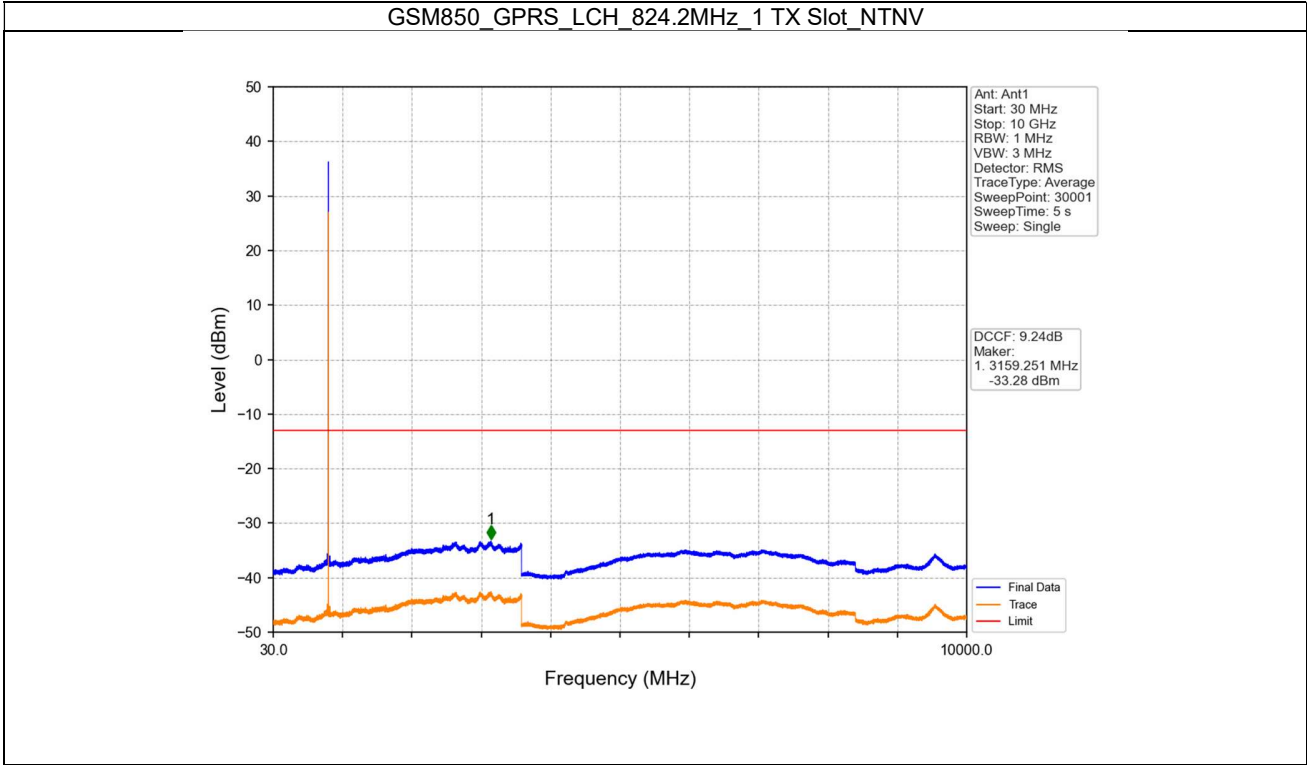
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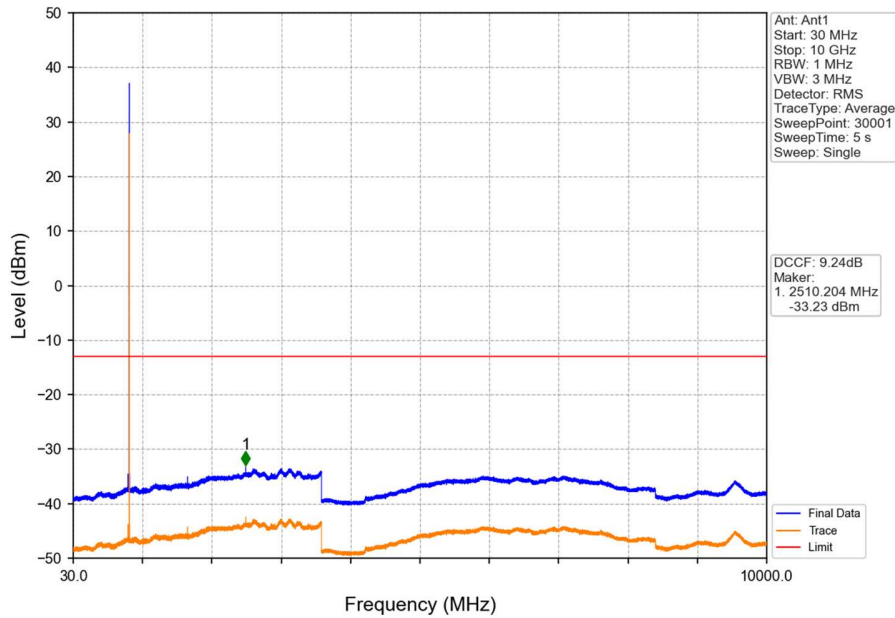
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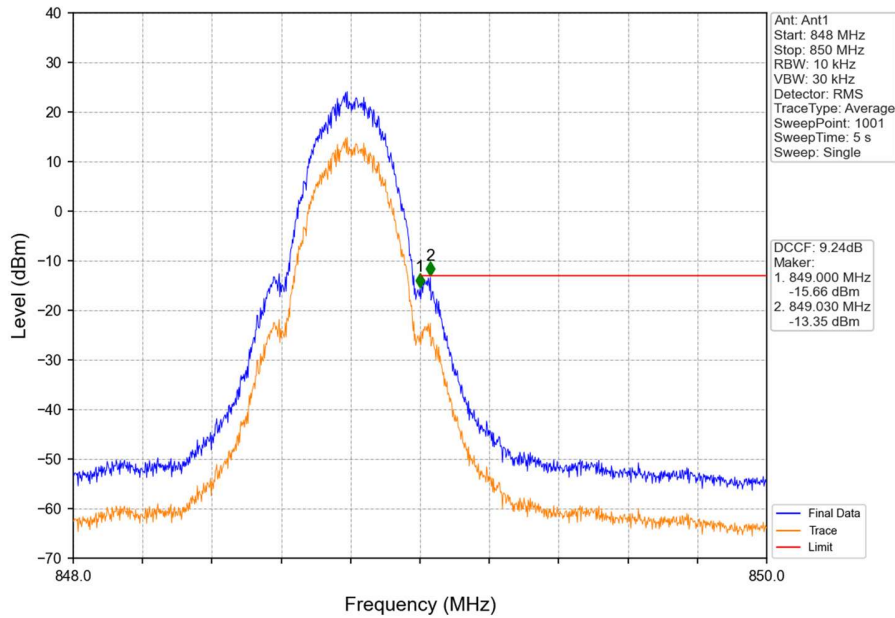


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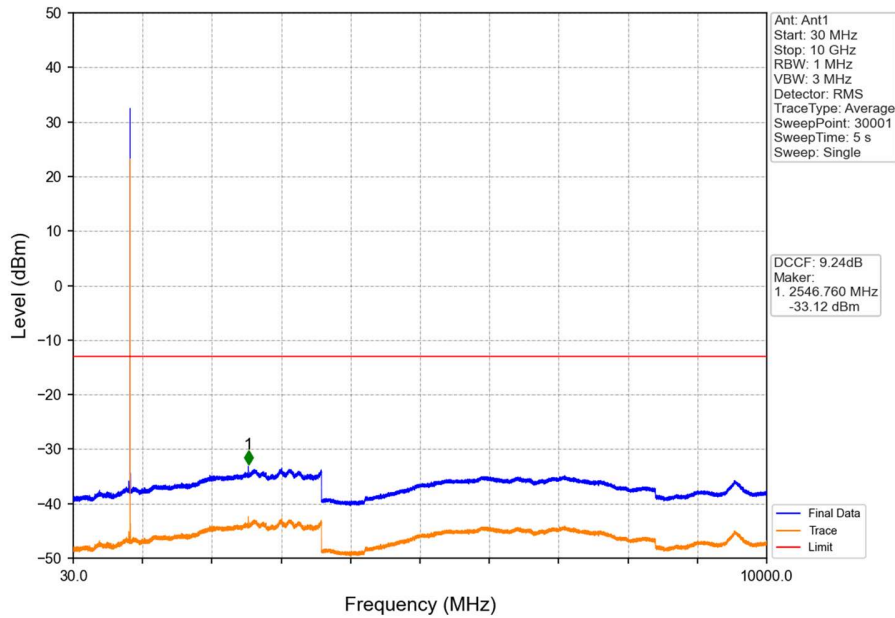
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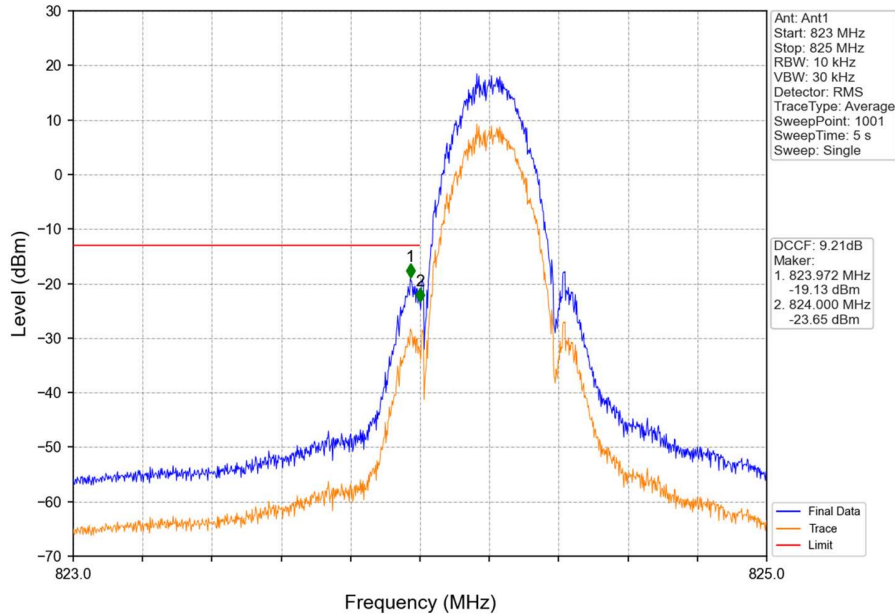


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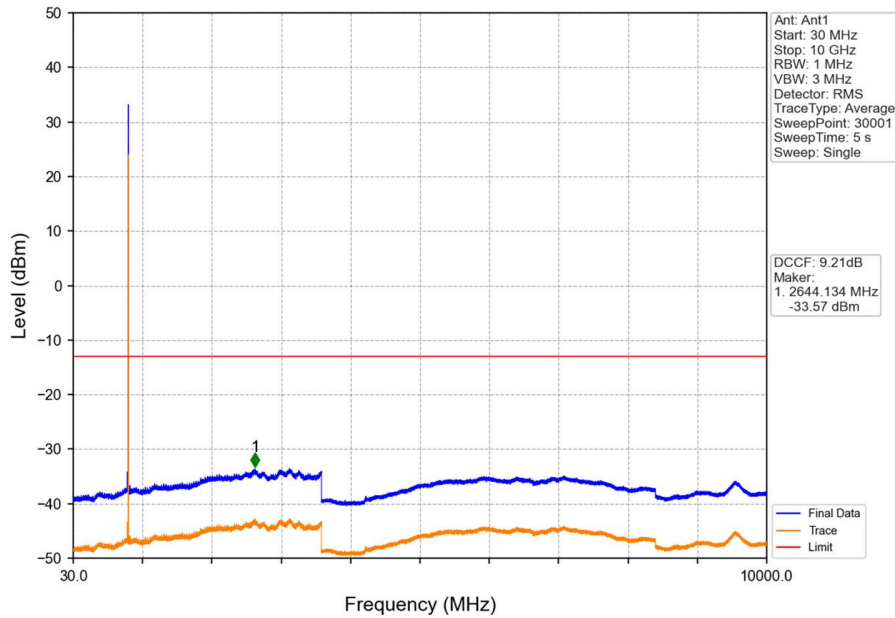
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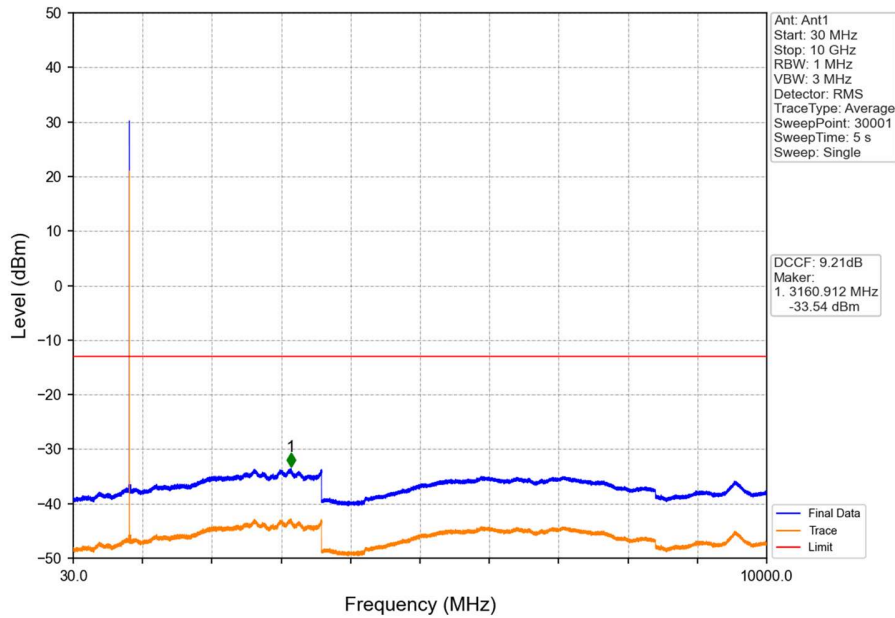
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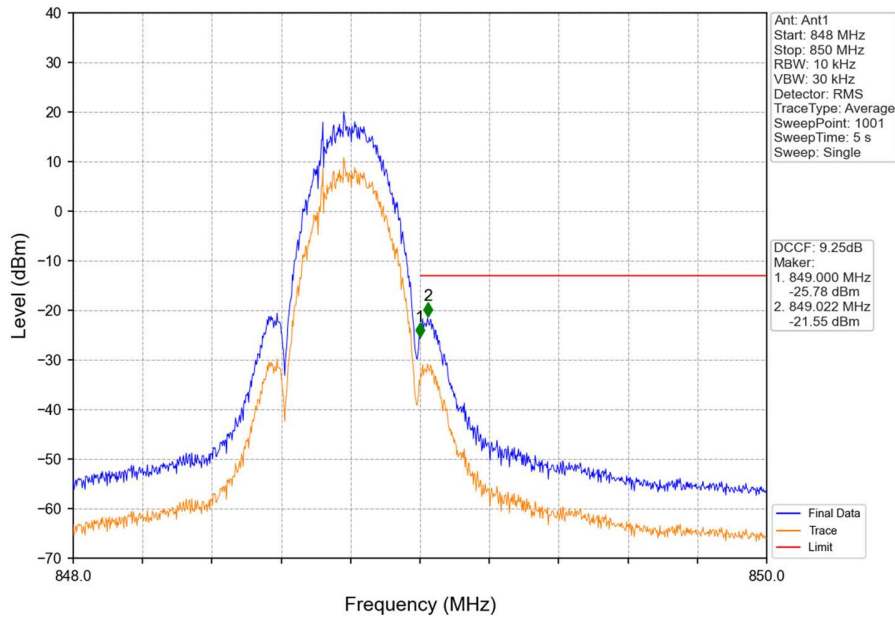


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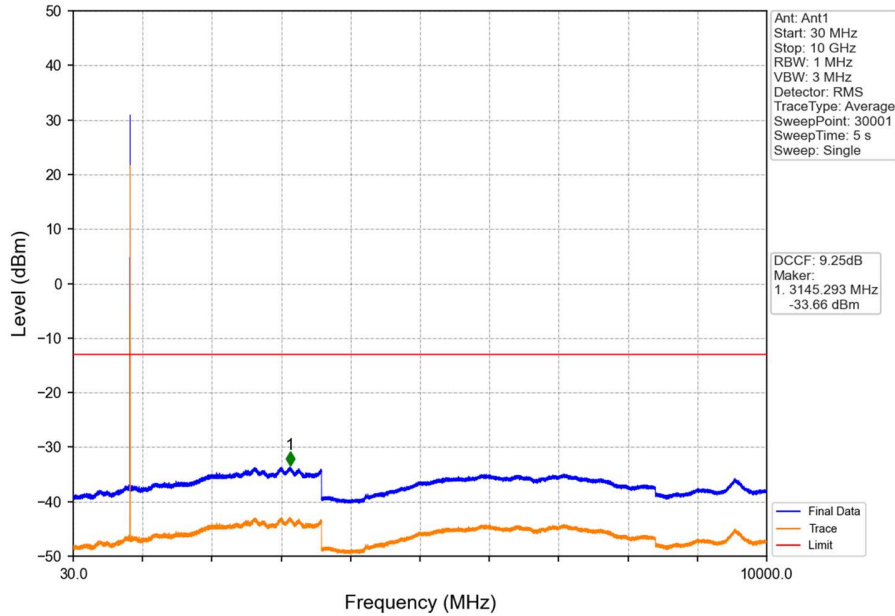


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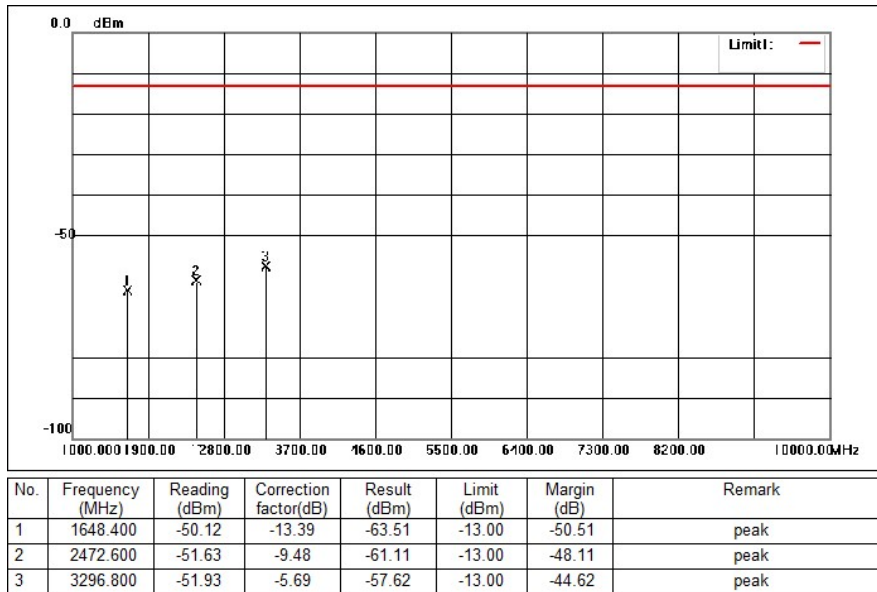
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7. Field Strength of Spurious Radiation

Up Antenna

GSM850-Low channel

Polarization: H



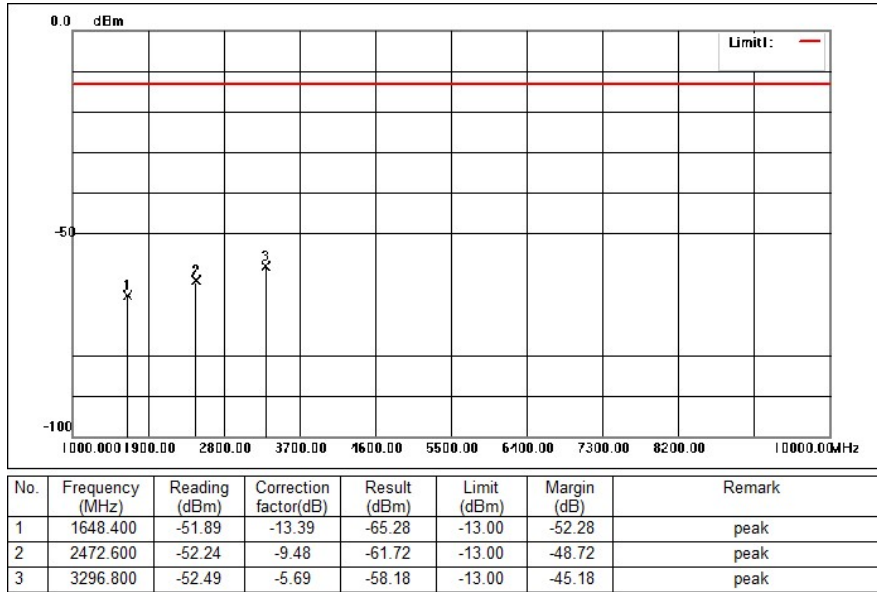
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Polarization: V



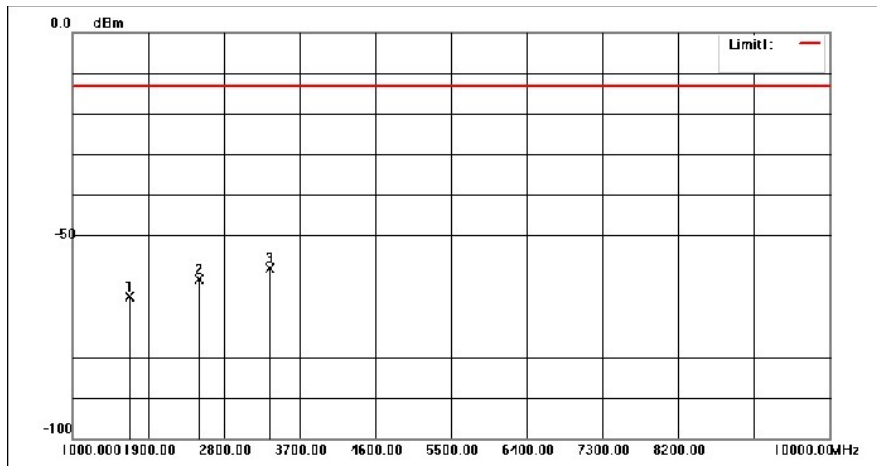
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GSM850-Middle channel

Polarization: H



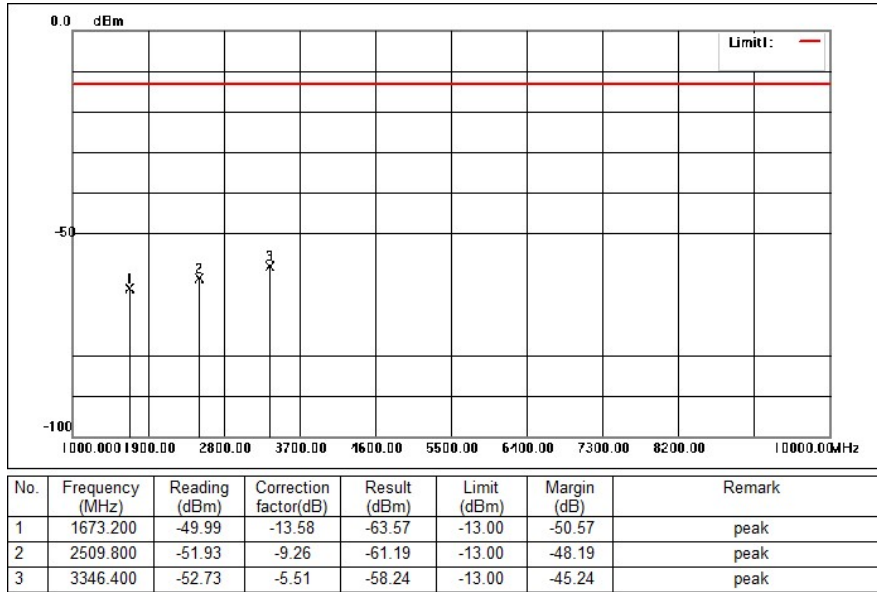
No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-51.42	-13.58	-65.00	-13.00	-52.00	peak
2	2509.800	-51.53	-9.26	-60.79	-13.00	-47.79	peak
3	3346.400	-52.70	-5.51	-58.21	-13.00	-45.21	peak



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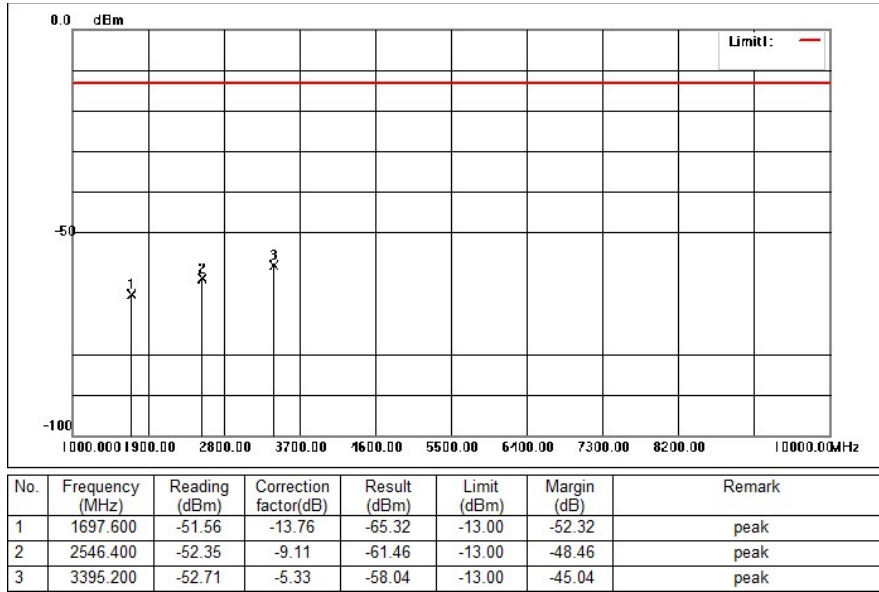
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GSM850-High channel
Polarization: H

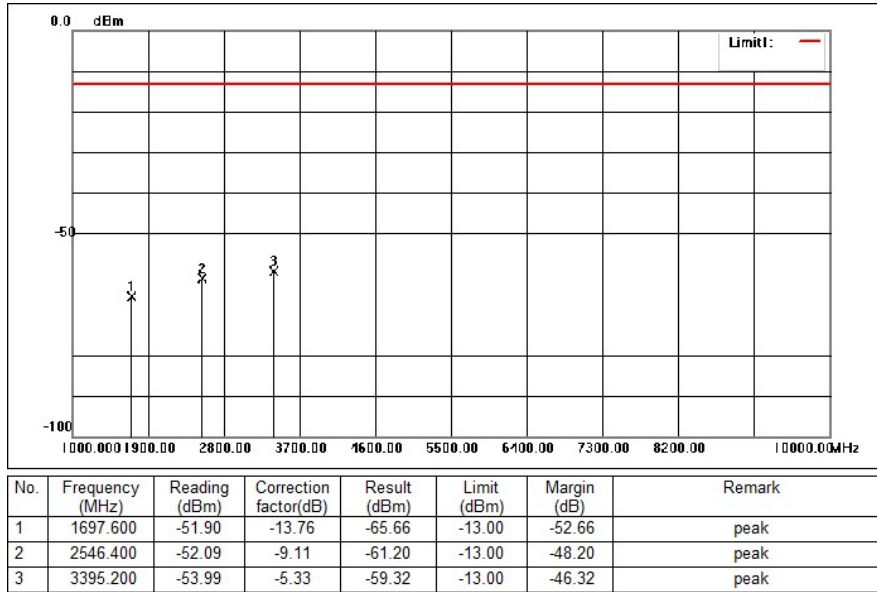


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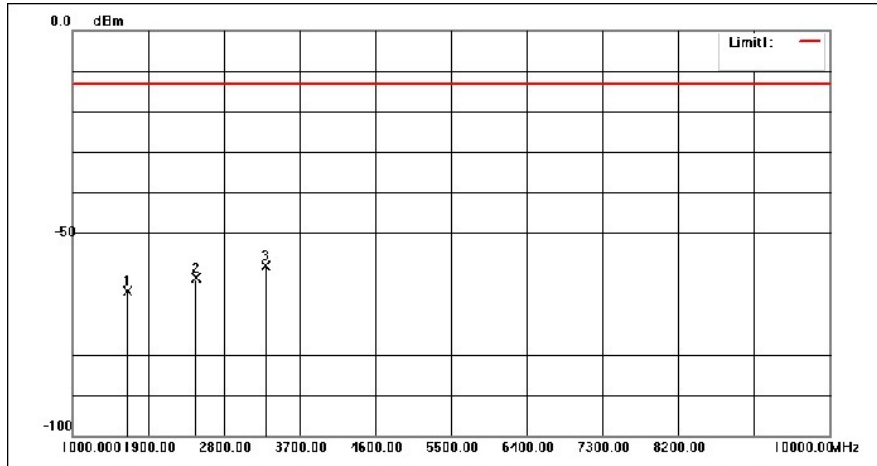
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Down Antenna

GSM850-Low channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1648.400	-51.10	-13.39	-64.49	-13.00	-51.49	peak
2	2472.600	-51.59	-9.48	-61.07	-13.00	-48.07	peak
3	3296.800	-52.36	-5.69	-58.05	-13.00	-45.05	peak



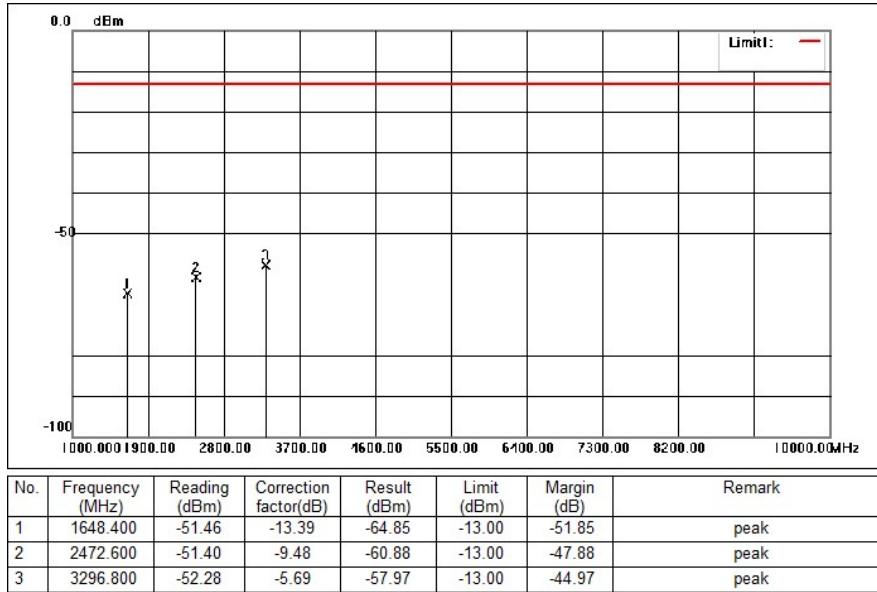
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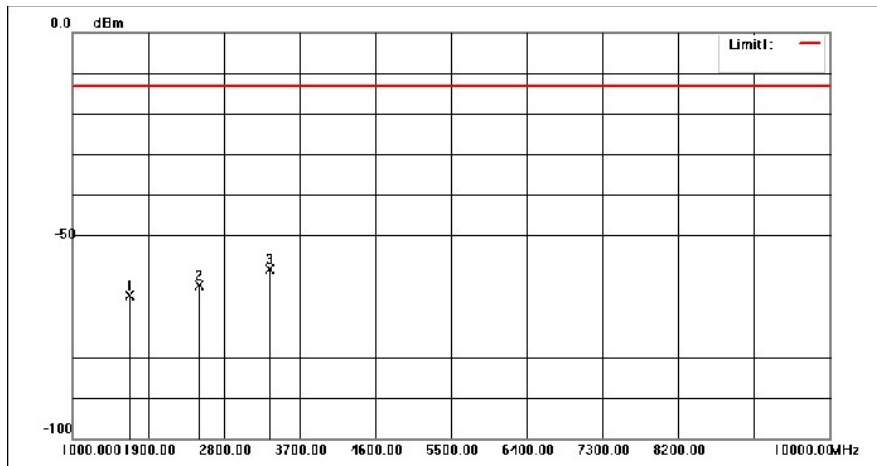
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GSM850-Middle channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-51.34	-13.58	-64.92	-13.00	-51.92	peak
2	2509.800	-53.05	-9.26	-62.31	-13.00	-49.31	peak
3	3346.400	-52.84	-5.51	-58.35	-13.00	-45.35	peak



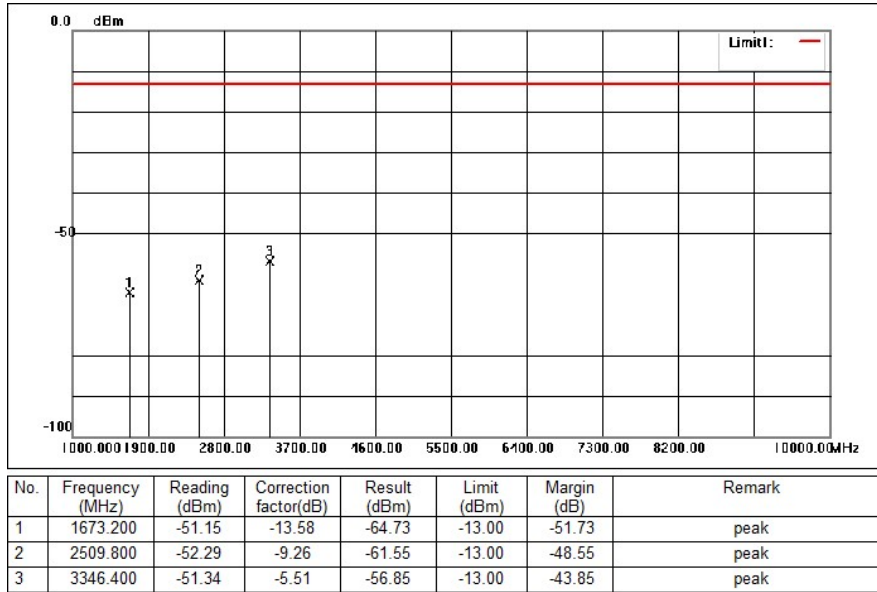
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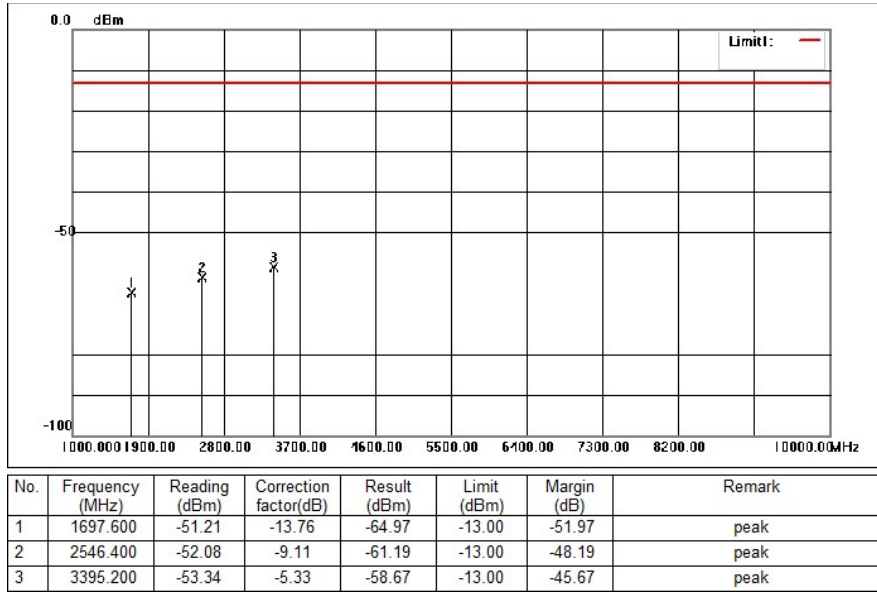
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GSM850-High channel

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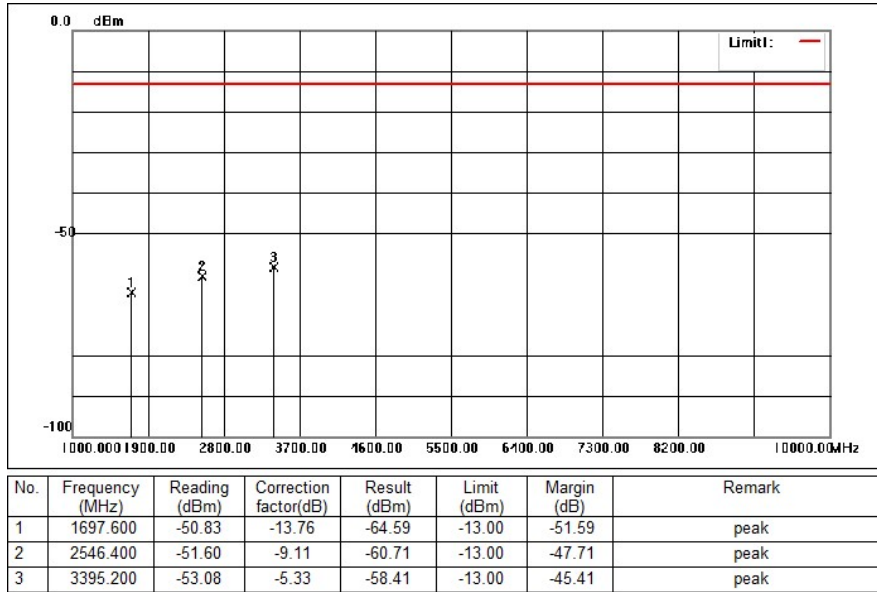
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Remark2:The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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