



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
		1 TX Slot	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
		1 TX Slot	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
		1 TX Slot	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
		1 TX Slot	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
		-10	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
		40	3.85	27.80	0.03	-2.5 to 2.5	Pass
	50	3.85	21.70	0.03	-2.5 to 2.5	Pass	
	836.6	20	3.27	20.76	0.02	-2.5 to 2.5	Pass
			3.85	21.99	0.03	-2.5 to 2.5	Pass
			4.43	22.63	0.03	-2.5 to 2.5	Pass
		-30	3.85	21.86	0.03	-2.5 to 2.5	Pass
		-20	3.85	25.51	0.03	-2.5 to 2.5	Pass
		-10	3.85	23.83	0.03	-2.5 to 2.5	Pass
		0	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
		40	3.85	23.25	0.03	-2.5 to 2.5	Pass
	50	3.85	24.12	0.03	-2.5 to 2.5	Pass	
	848.8	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
		-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
		-10	3.85	27.09	0.03	-2.5 to 2.5	Pass
		0	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	
40		3.85	29.61	0.03	-2.5 to 2.5	Pass	
50	3.85	31.54	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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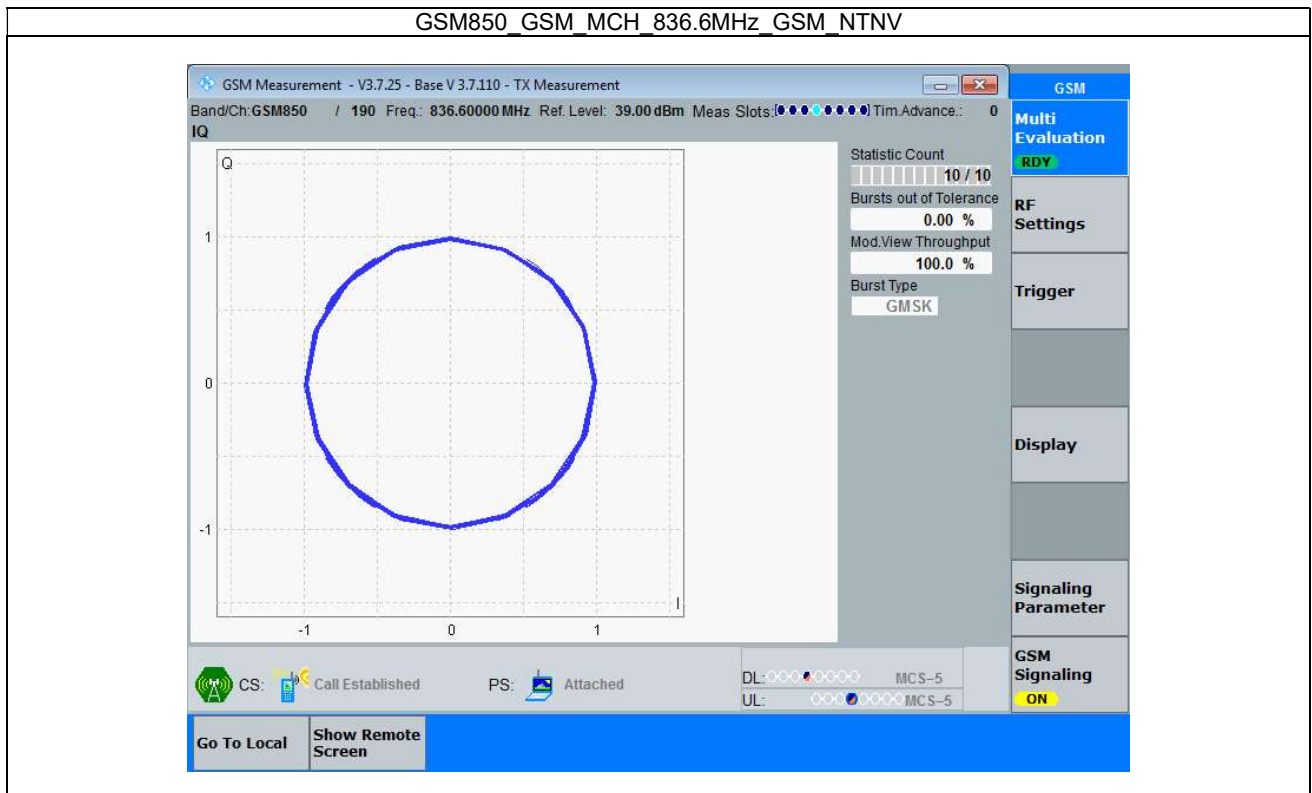
3. Modulation Characteristics

3.1 GSM850

3.1.1 Test Result

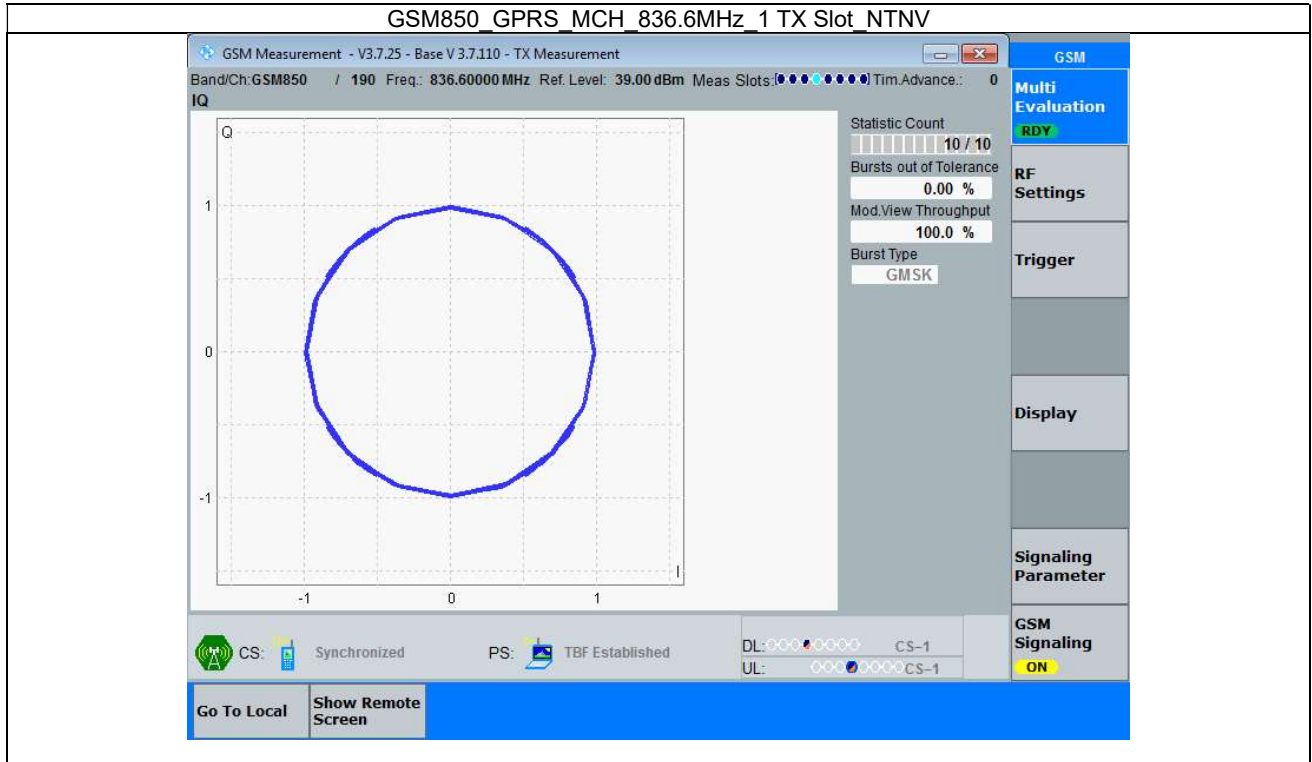
Band: GSM850					
ENV	Mode		Frequency (MHz)	Modulation Characteristics	
	Network	Subset		Result	Limit
NTNV	GSM	GSM	836.6	Refer To Test Graph	Pass
	GPRS	1 TX Slot	836.6	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	836.6	Refer To Test Graph	Pass

3.1.2 Test Graph



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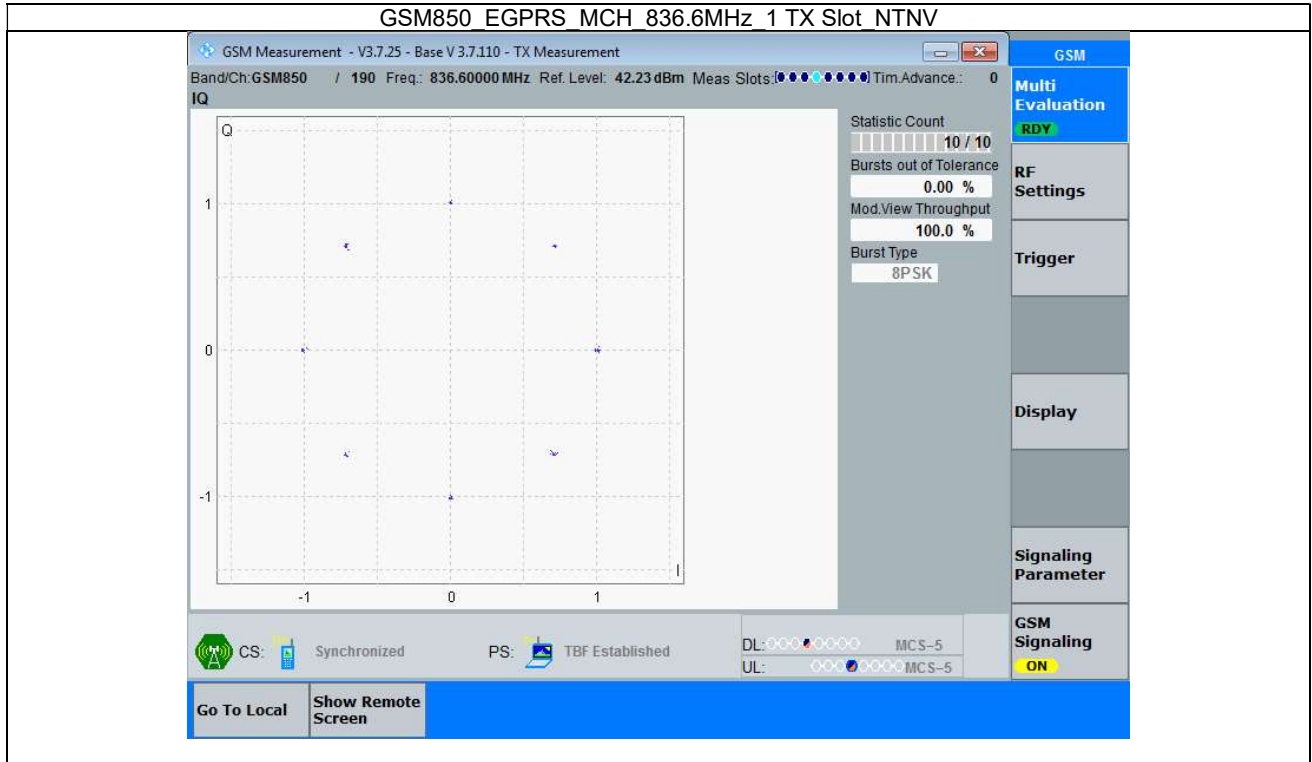


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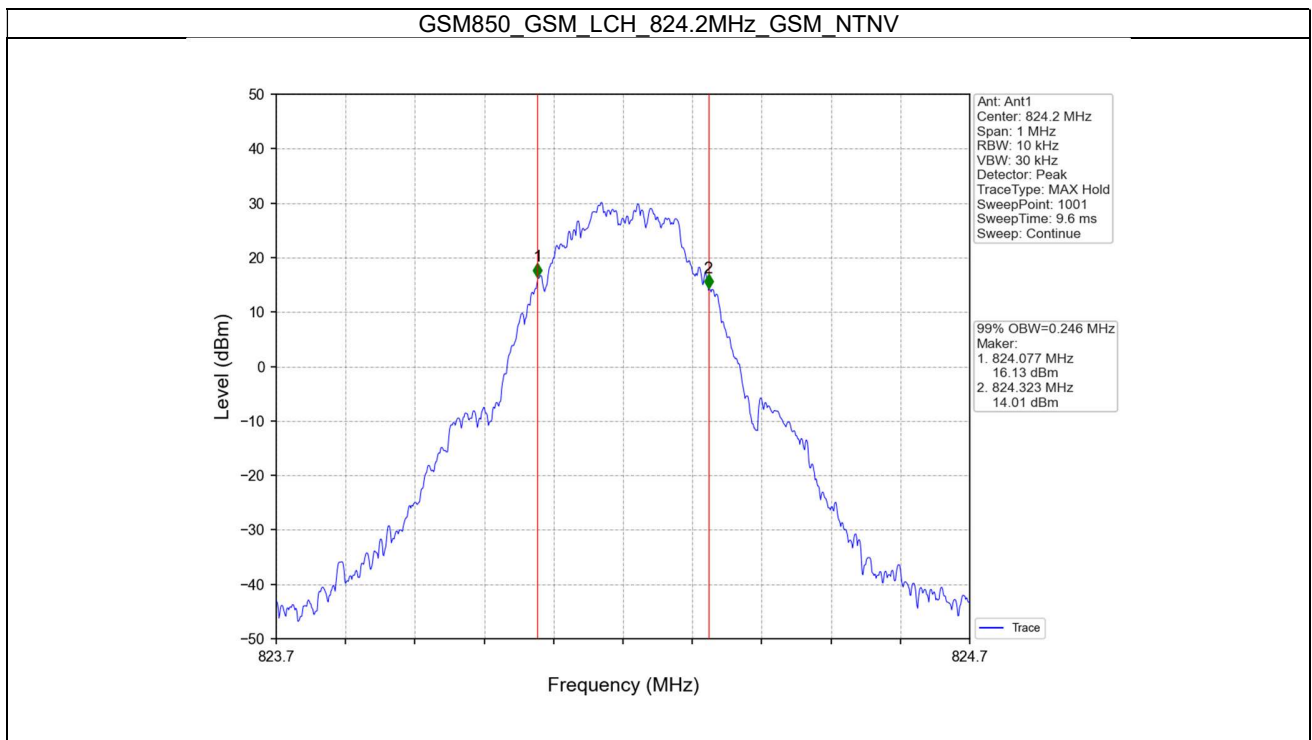
4. 99% & 26dB Bandwidth

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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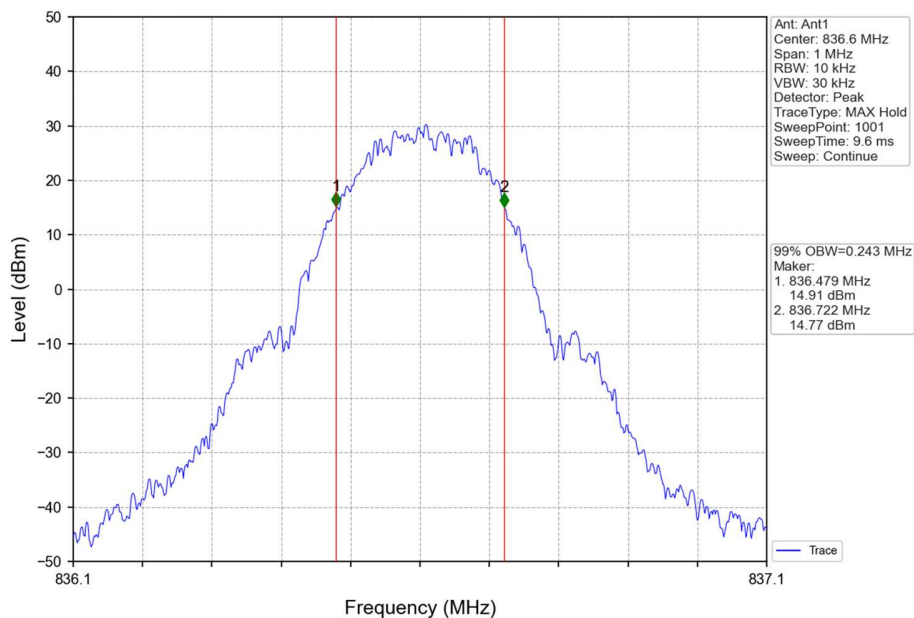
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GSM850 GSM MCH 836.6MHz GSM NTN



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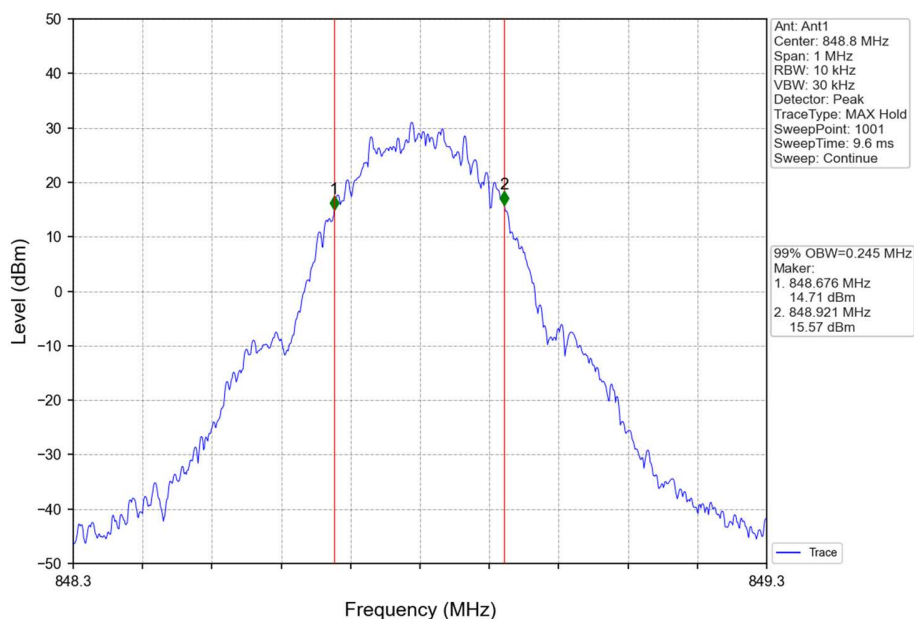
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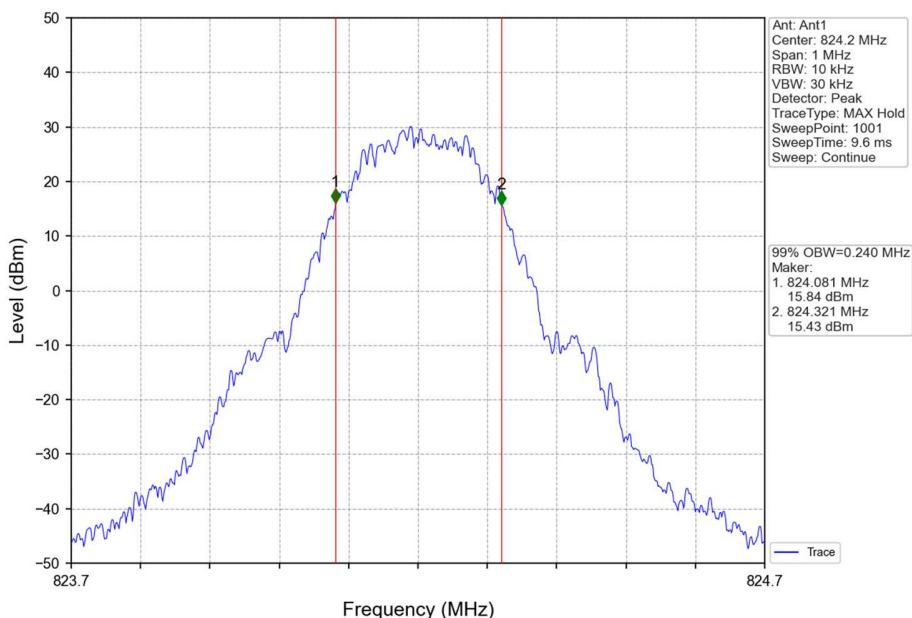
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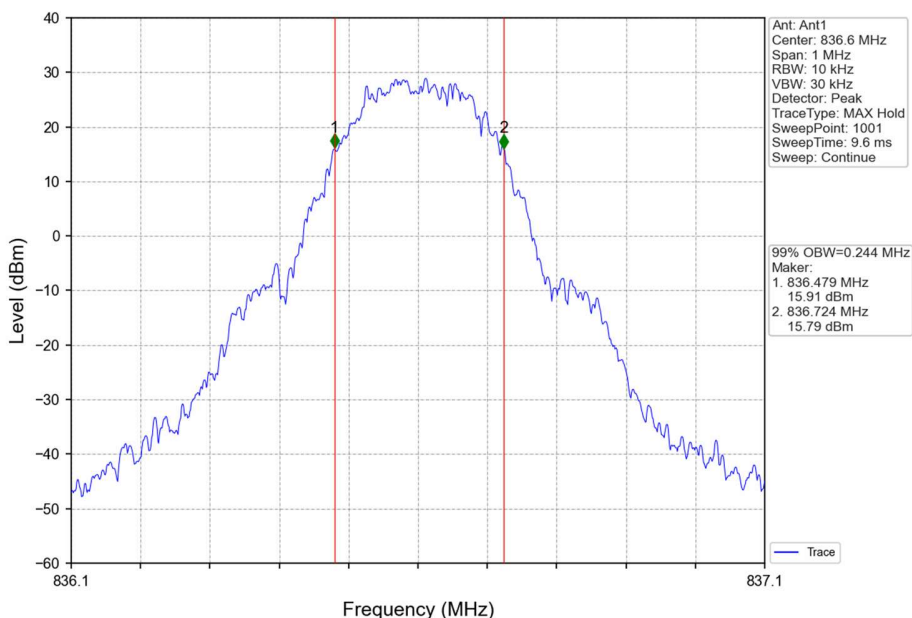
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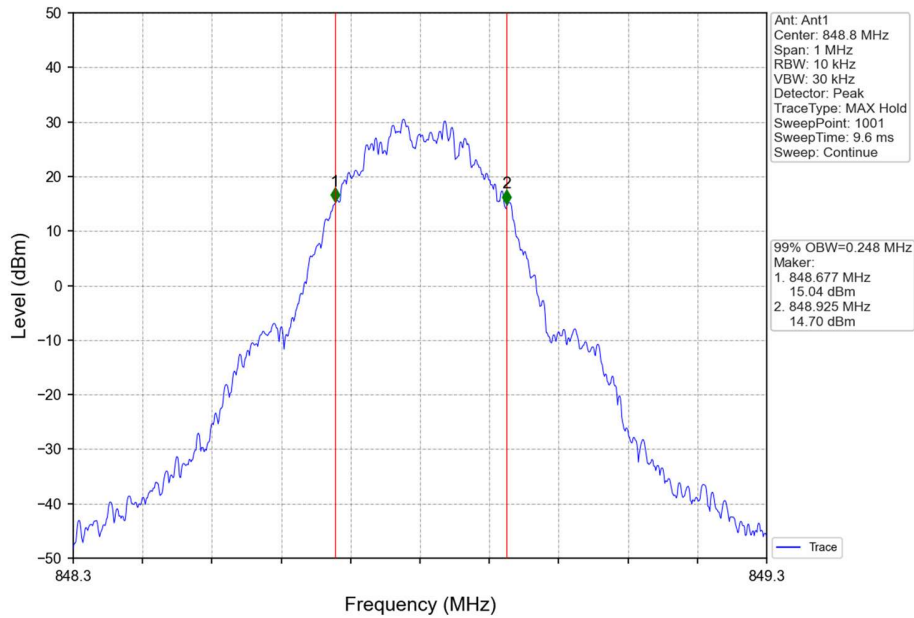
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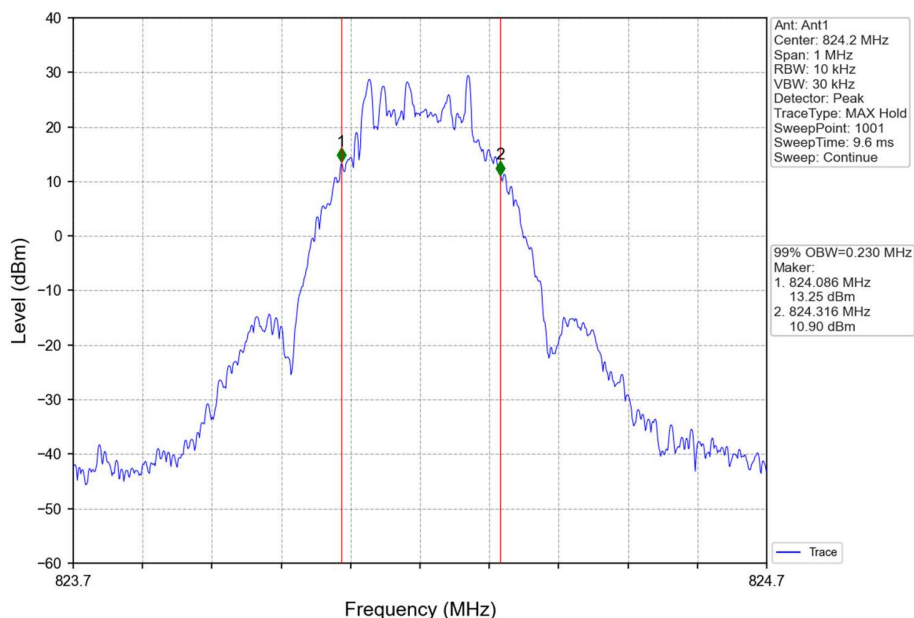
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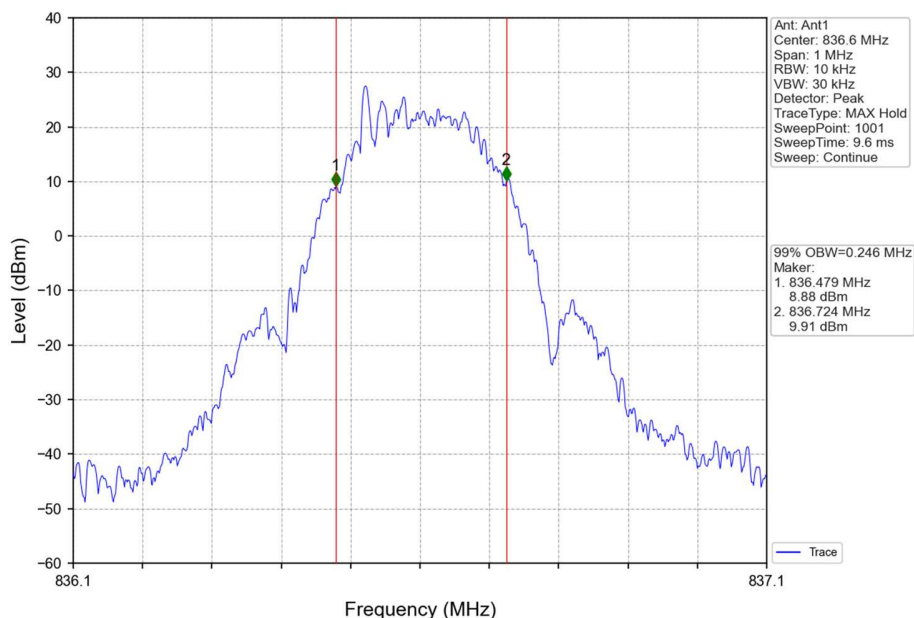
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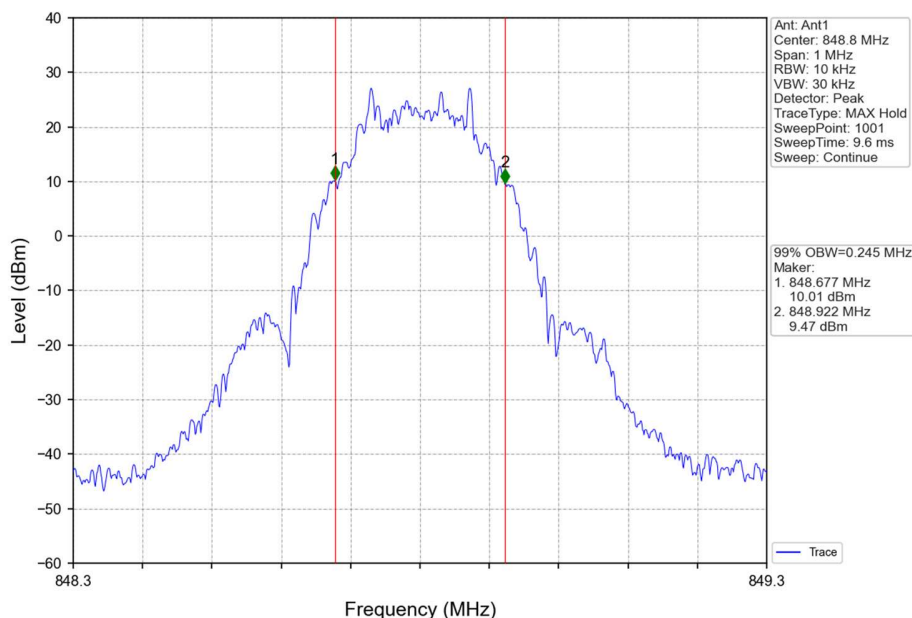
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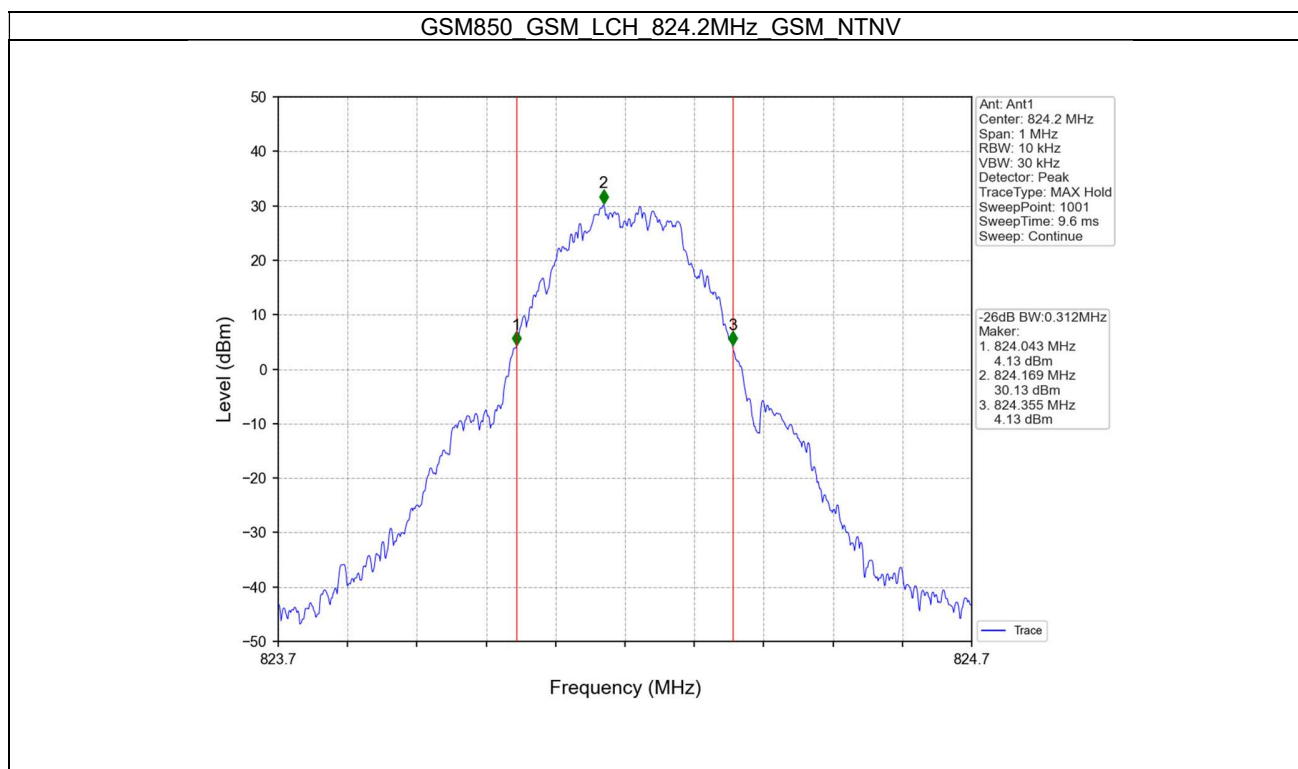


4.2 GSM850_XDB

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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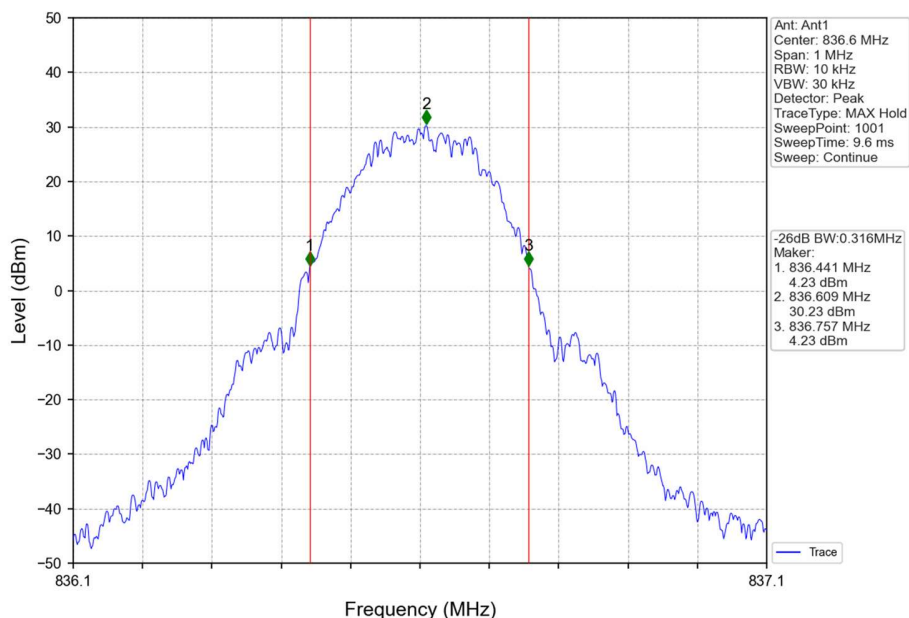
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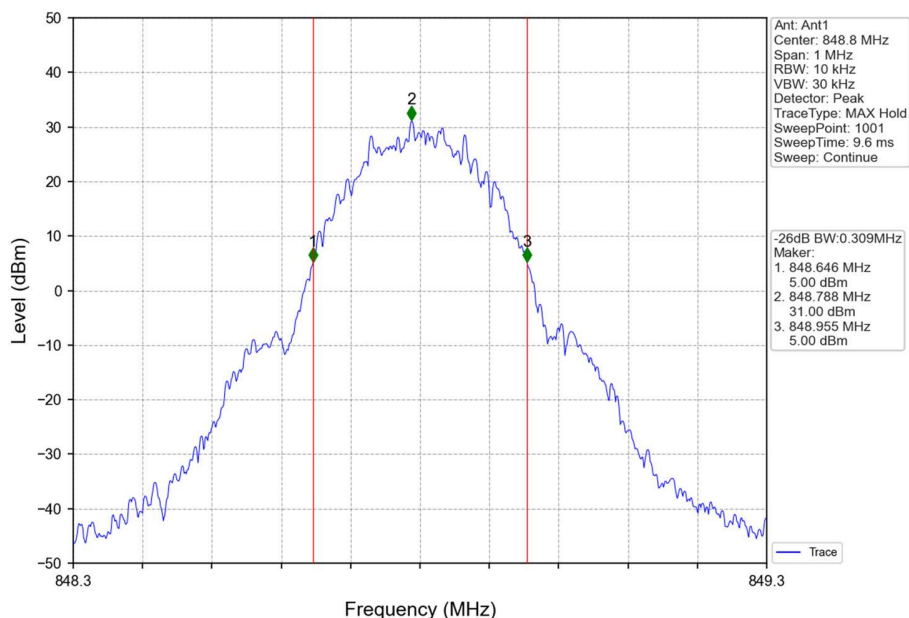
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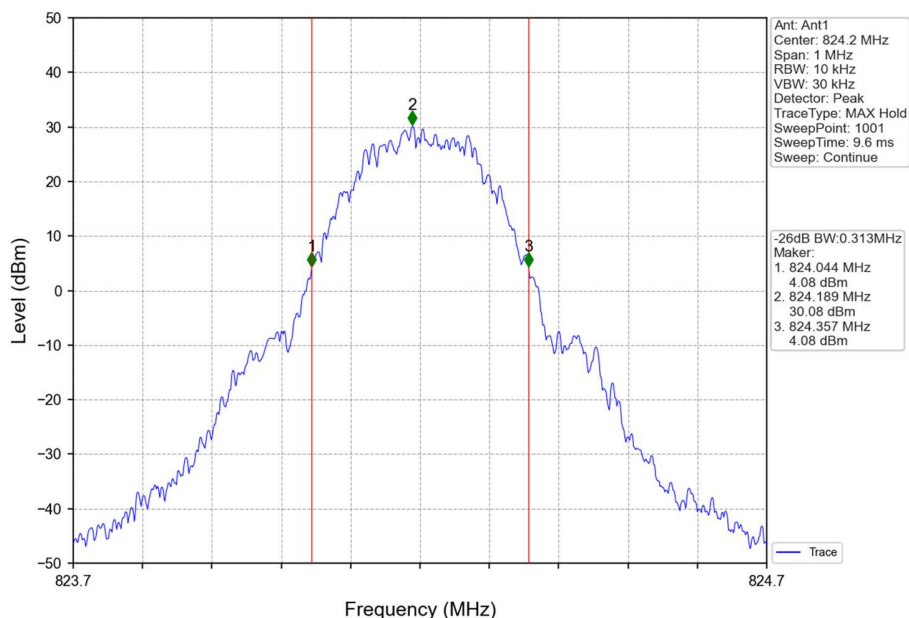
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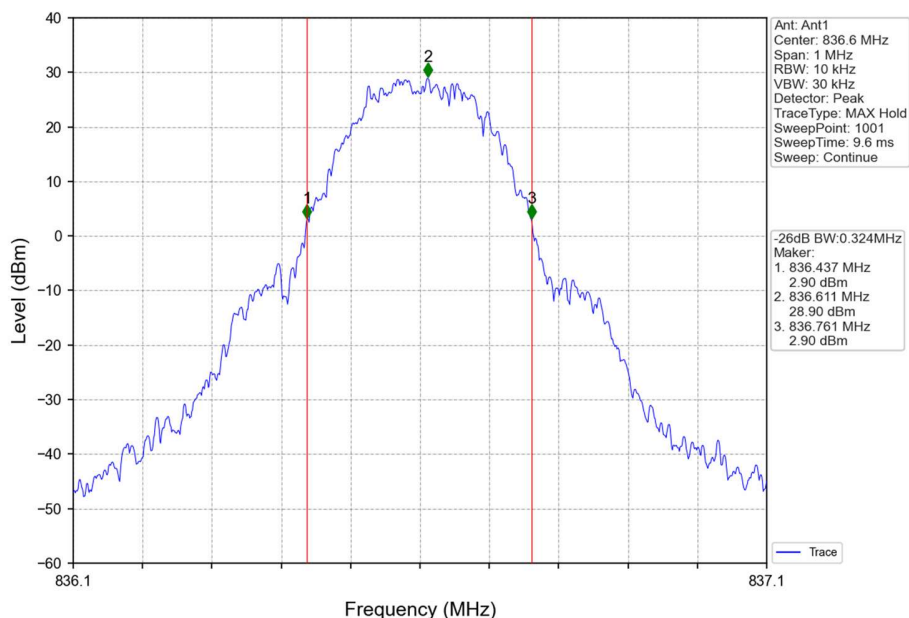
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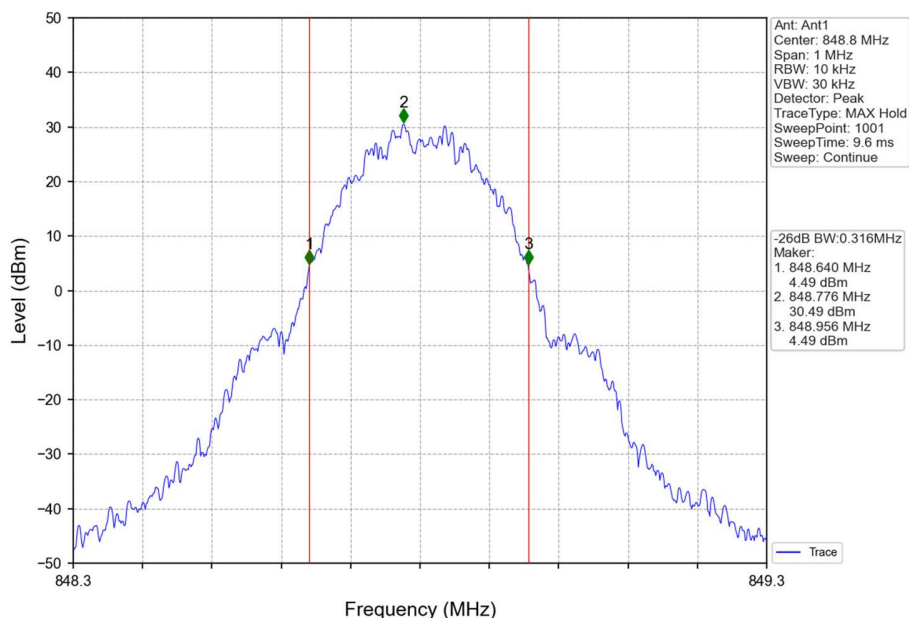
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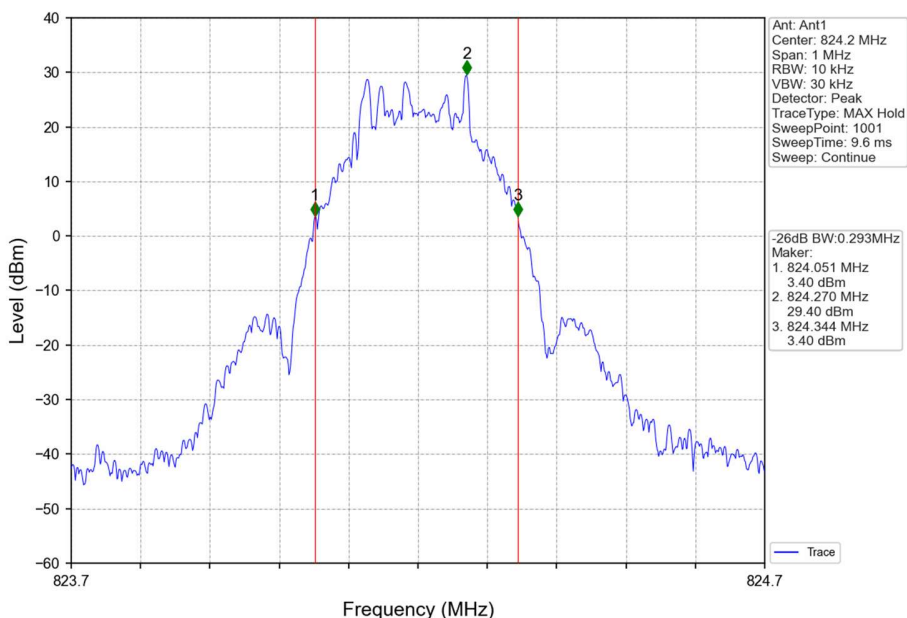
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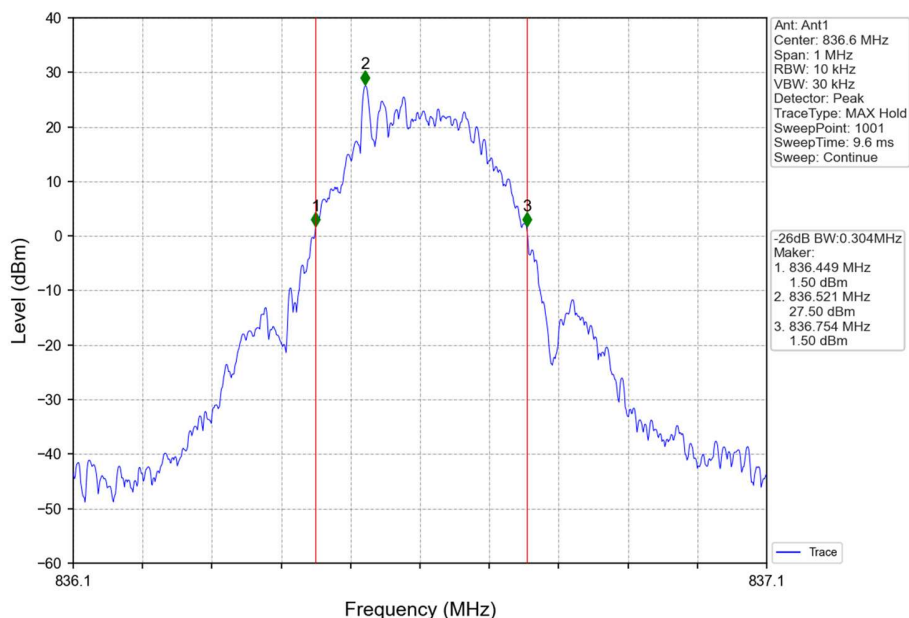
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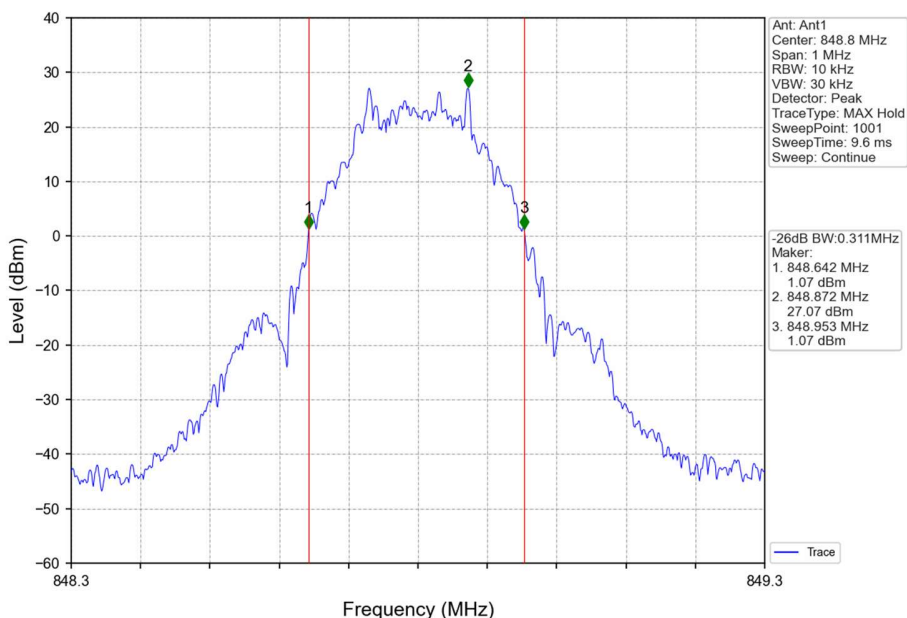
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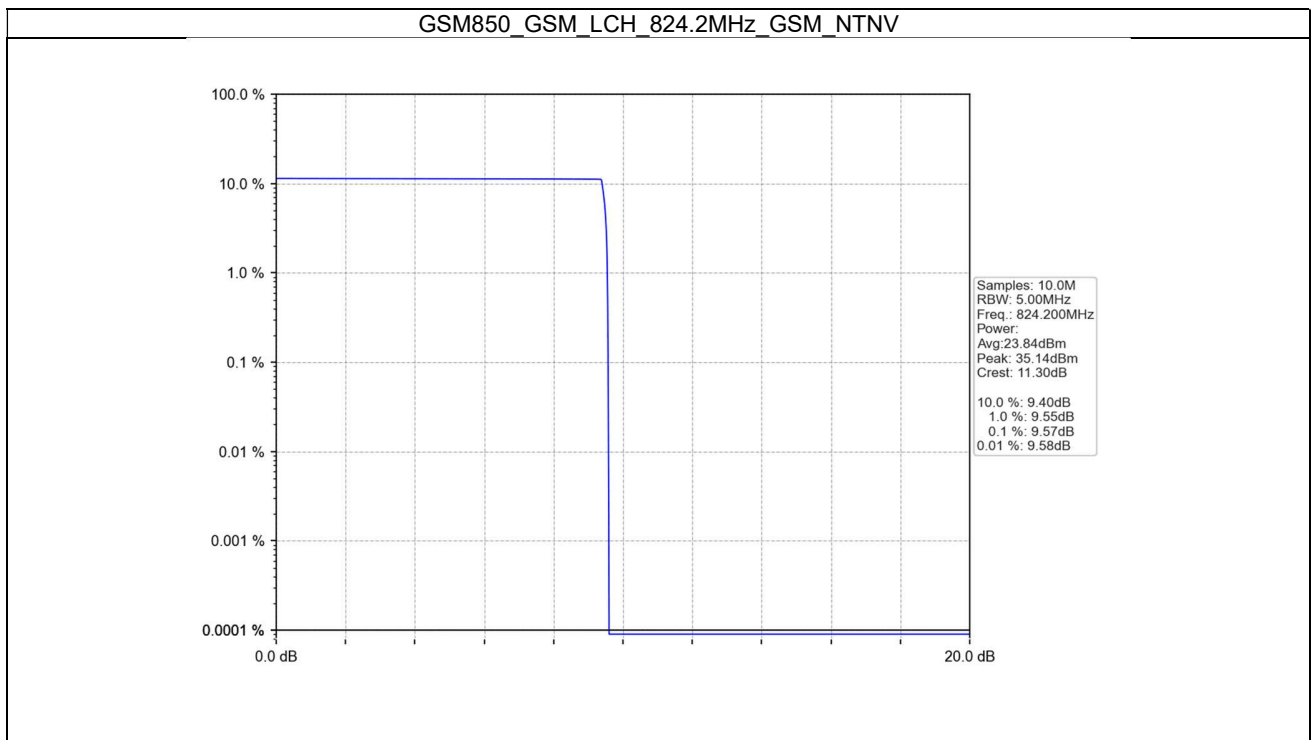
5. Peak-Average Ratio

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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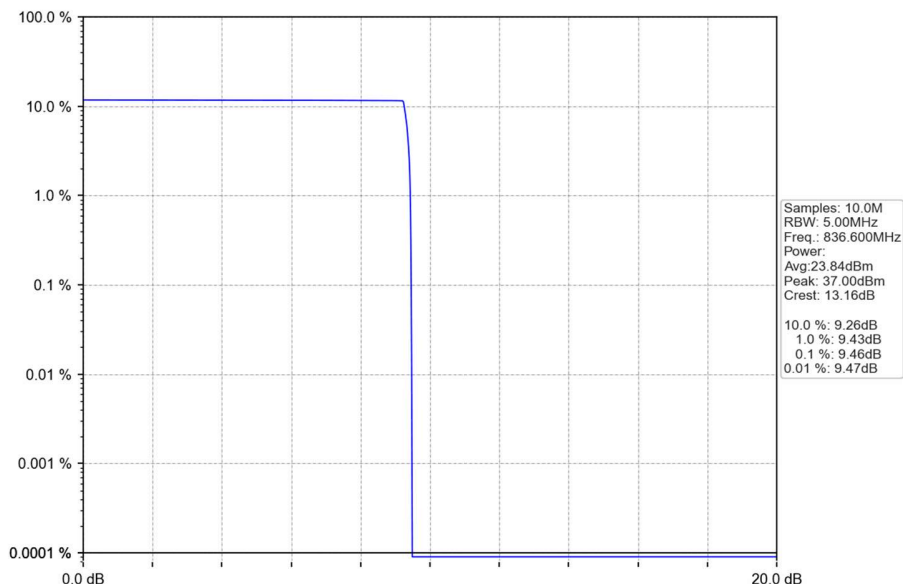
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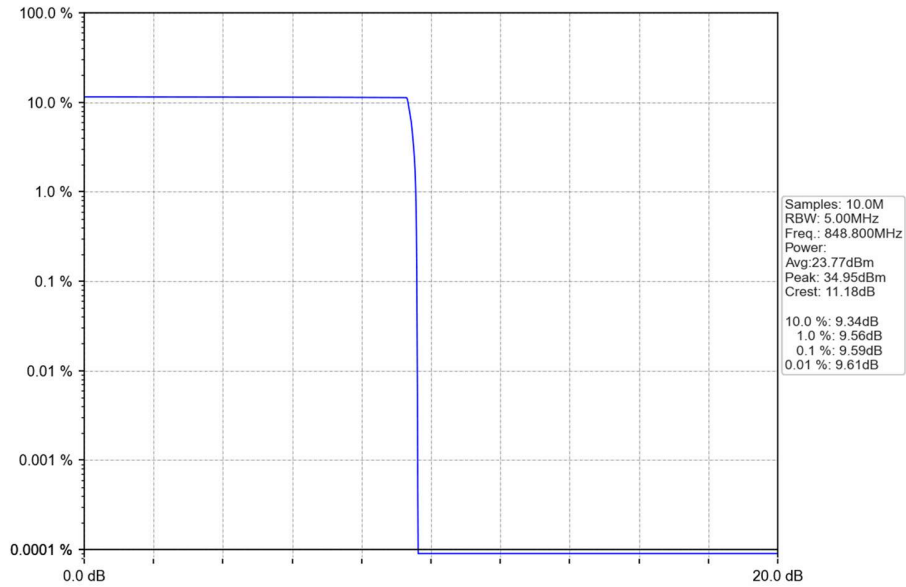
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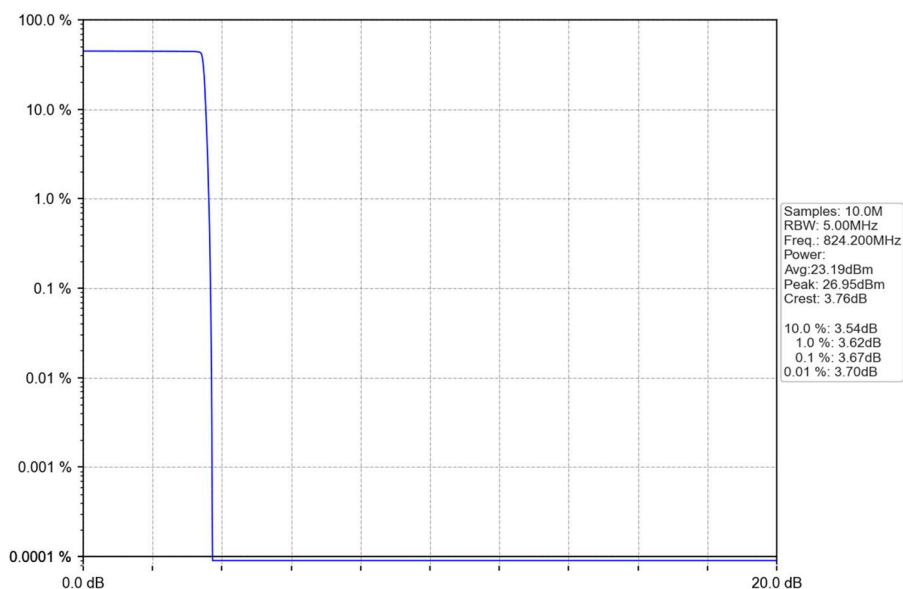
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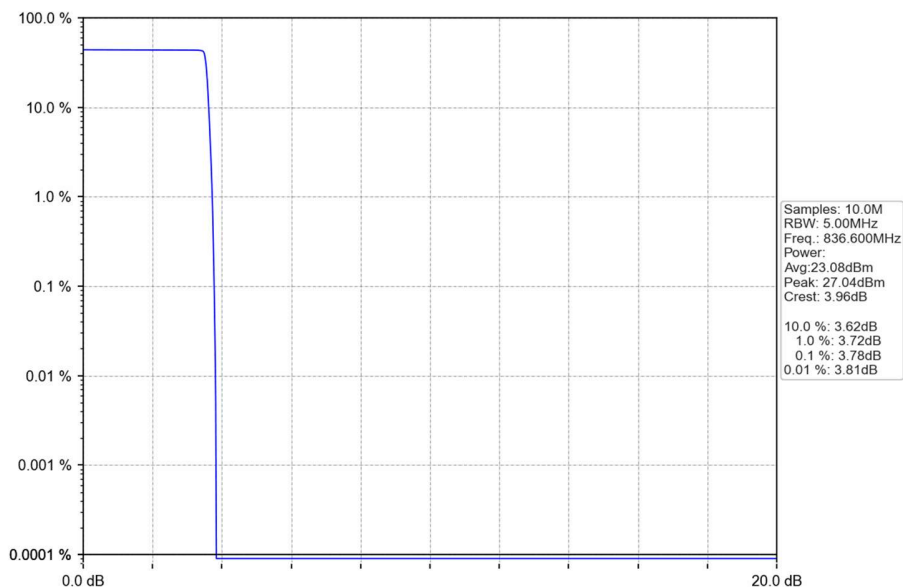
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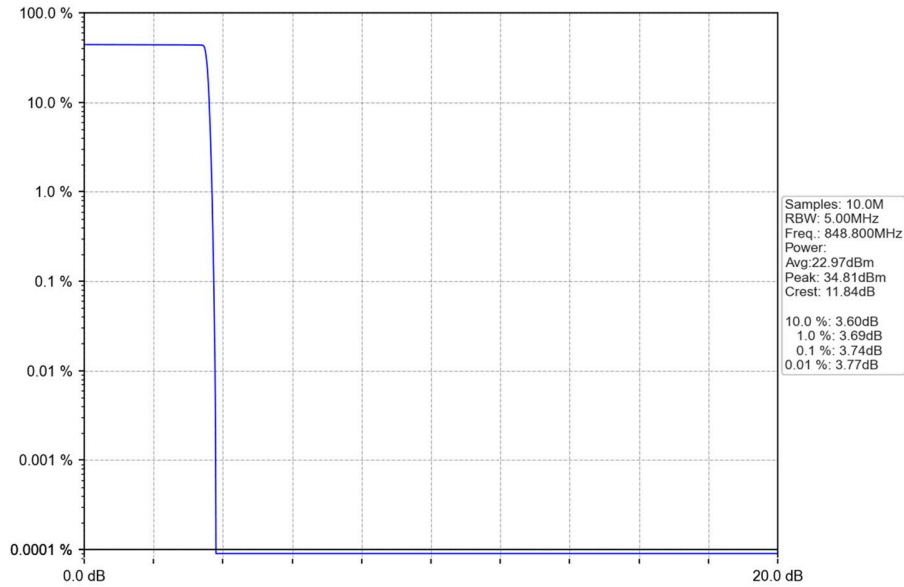
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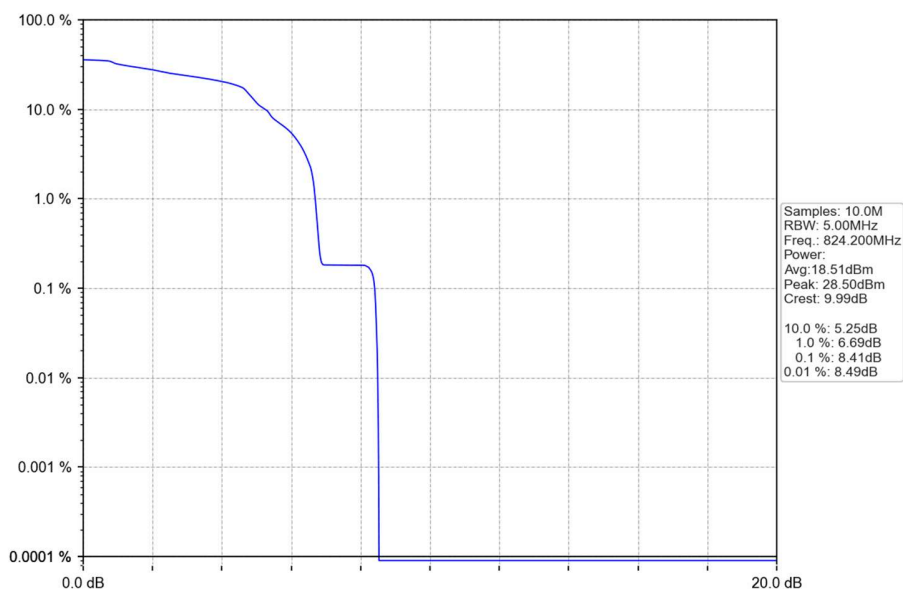
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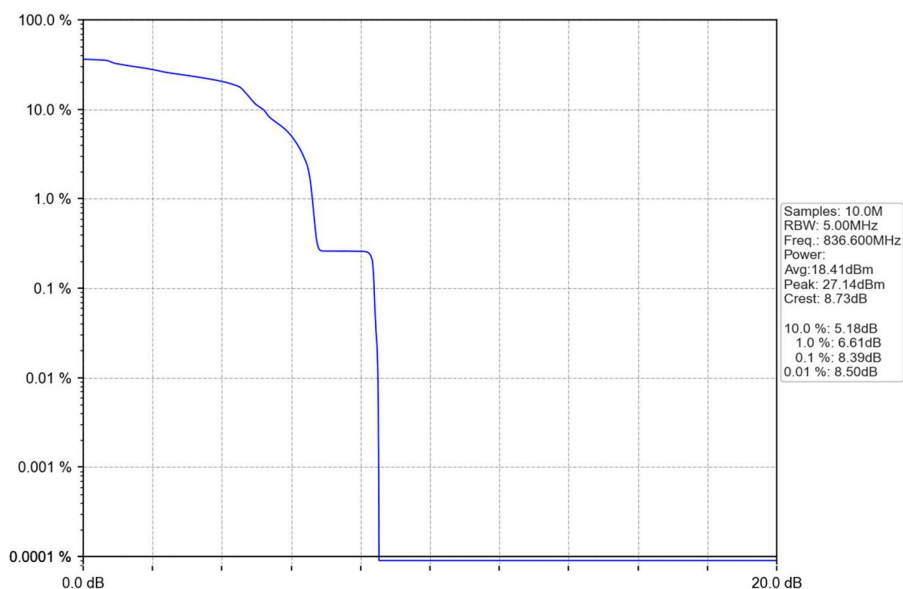
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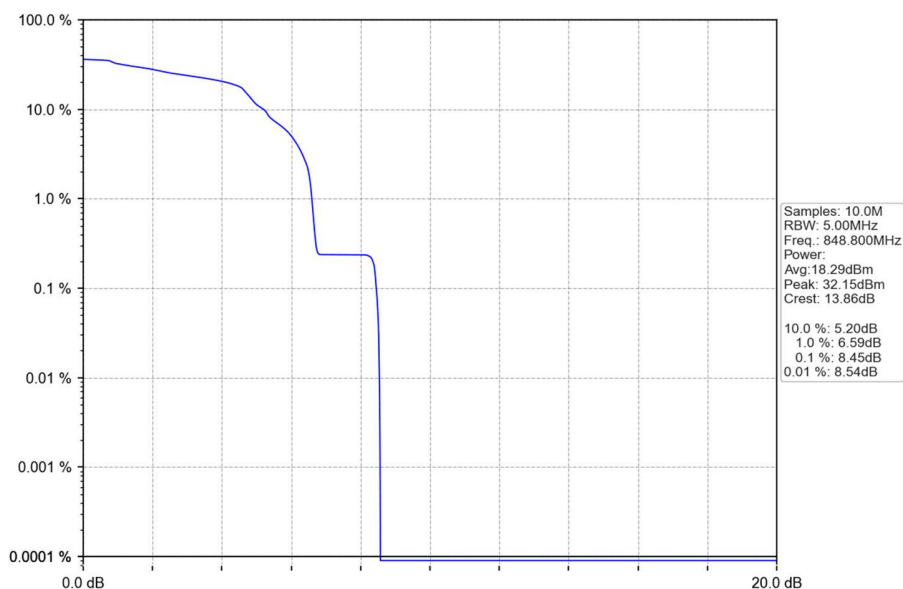
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6. Spurious Emission

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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " 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.



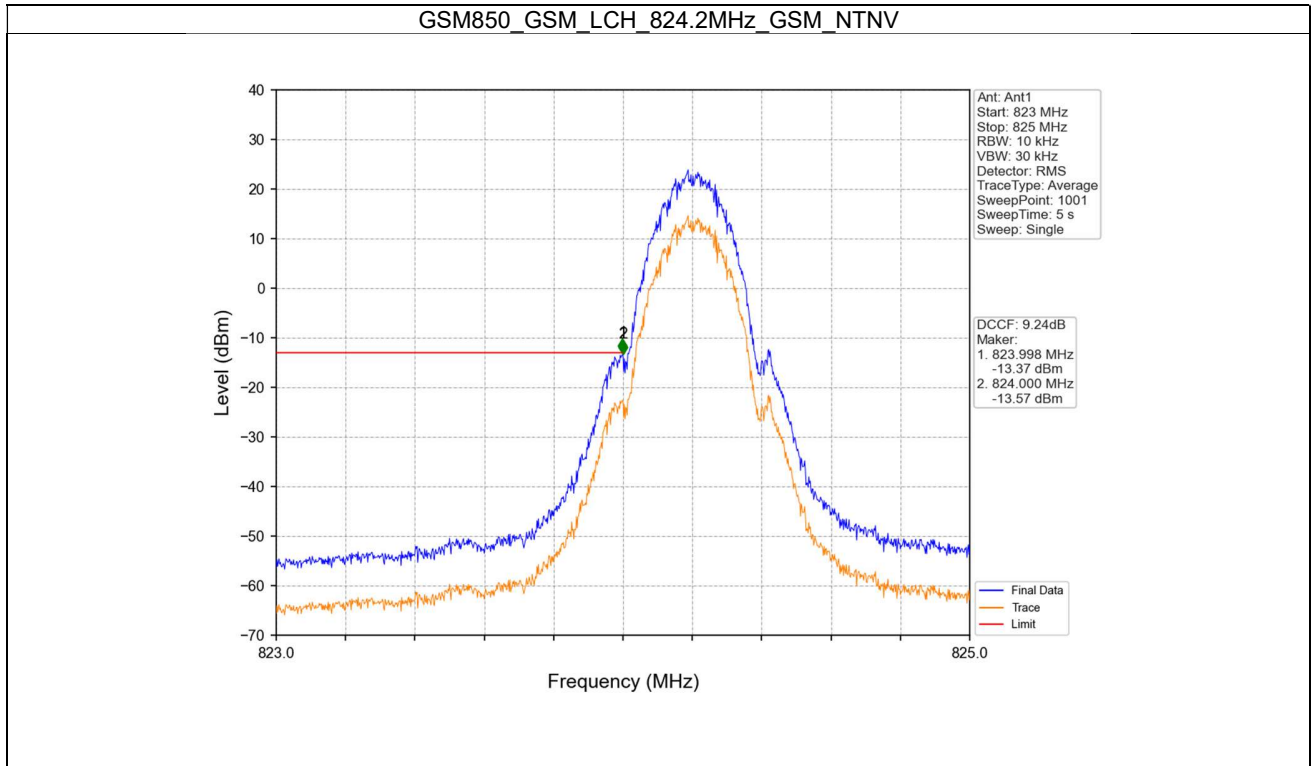
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6.1.2 Test Graph



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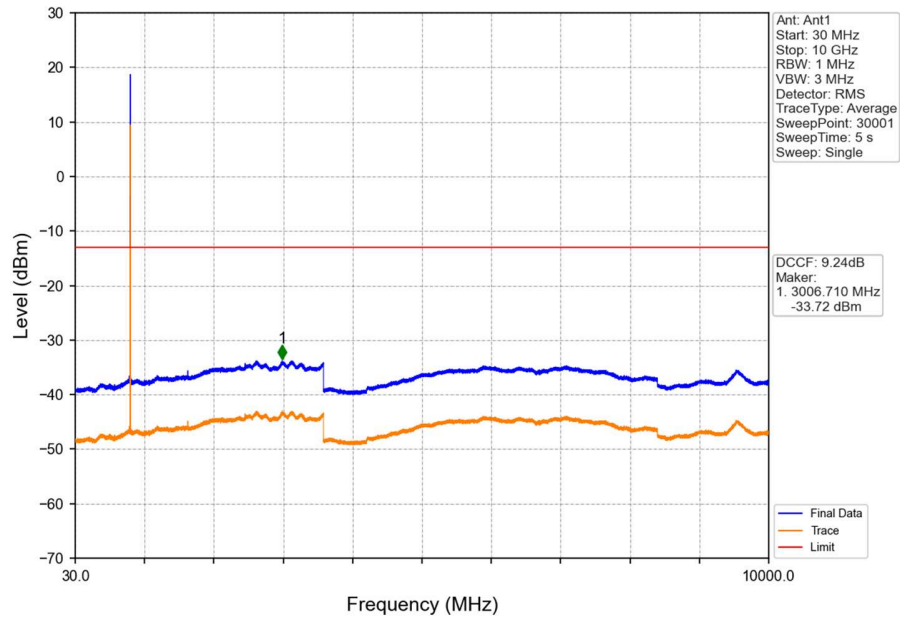
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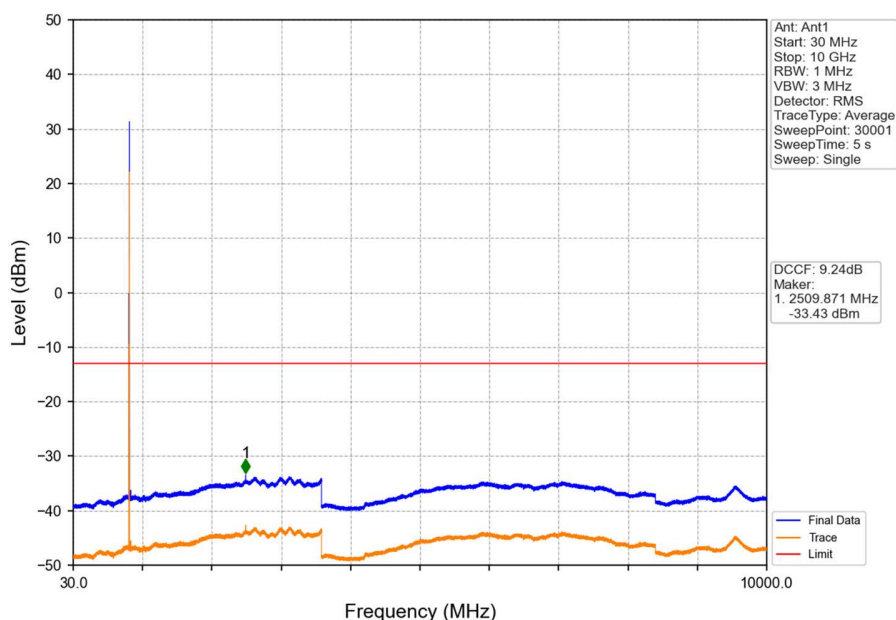
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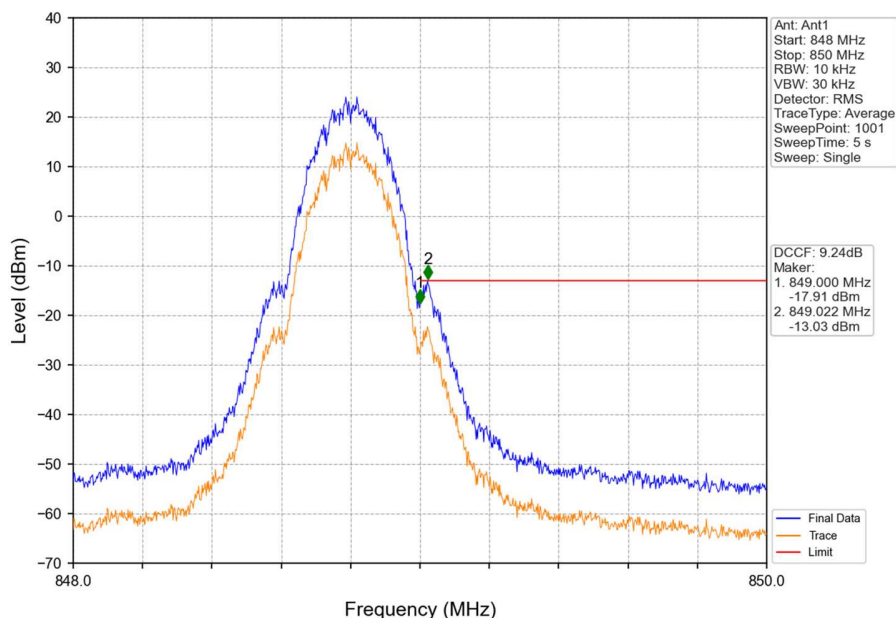
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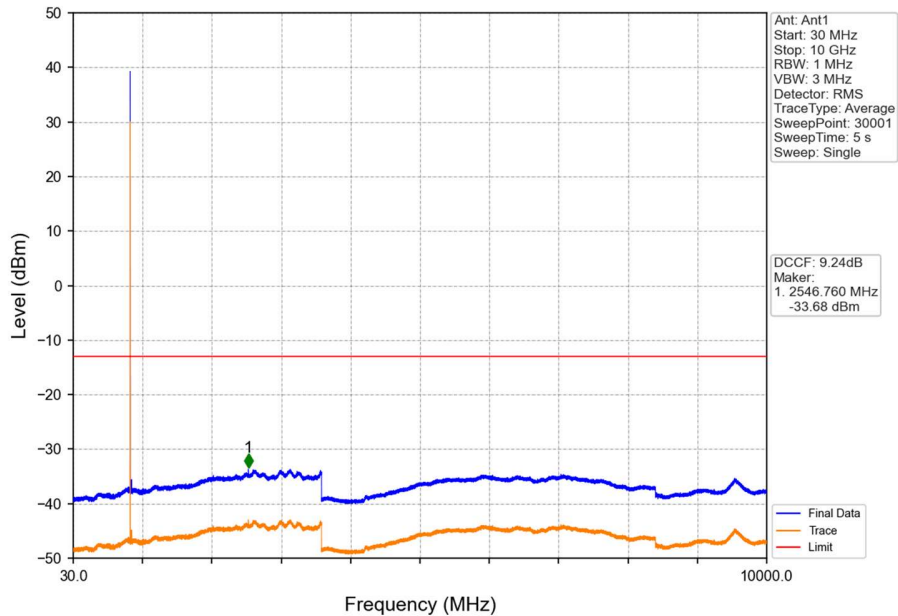
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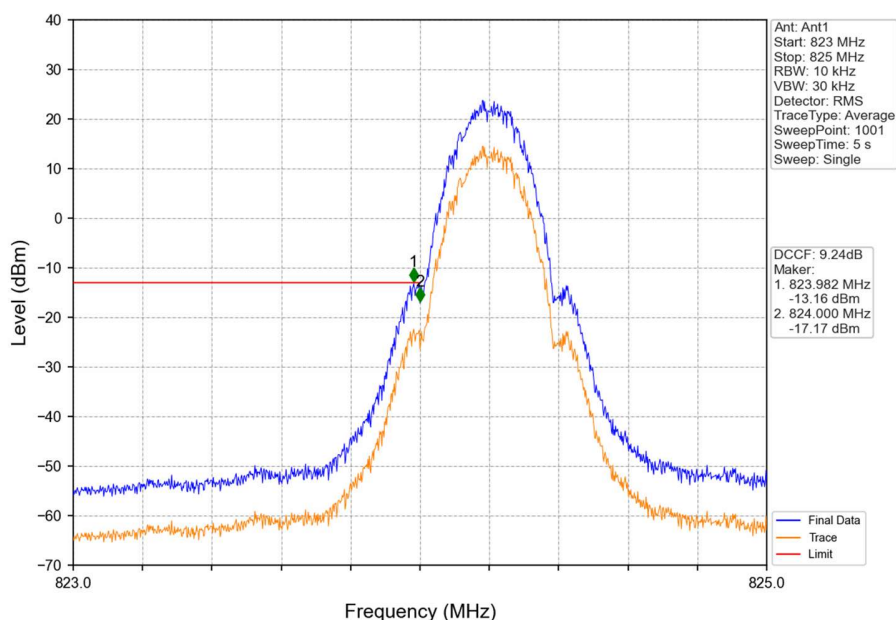
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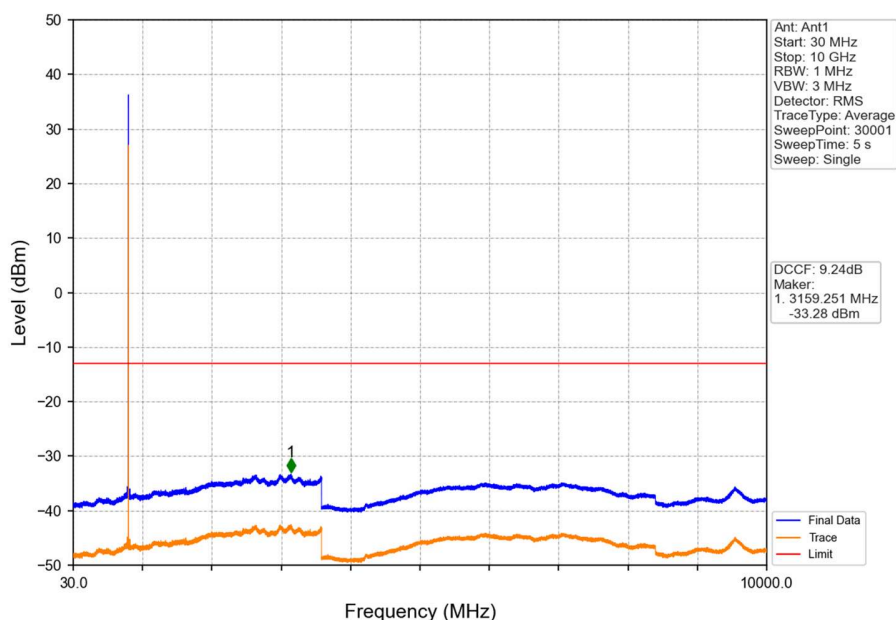
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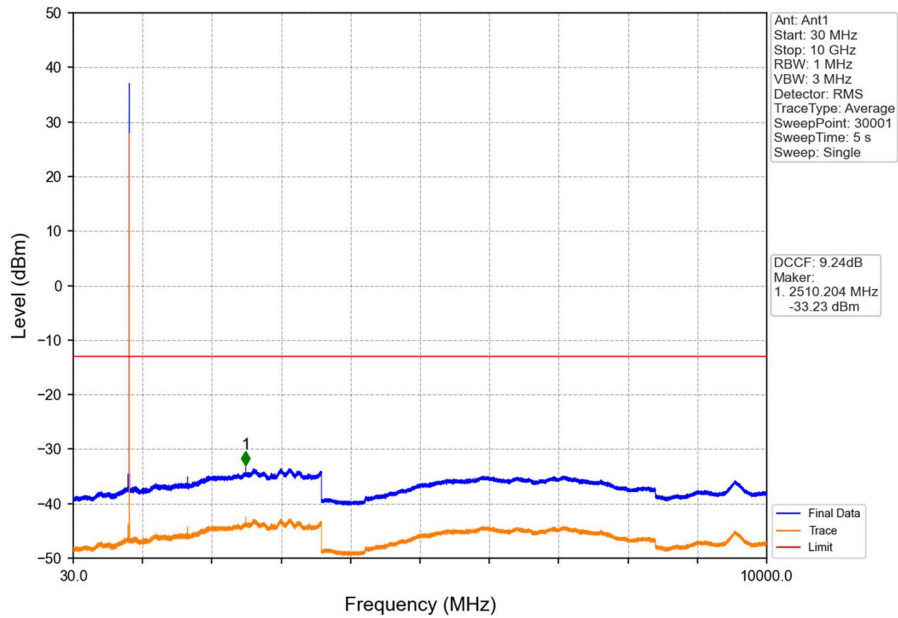
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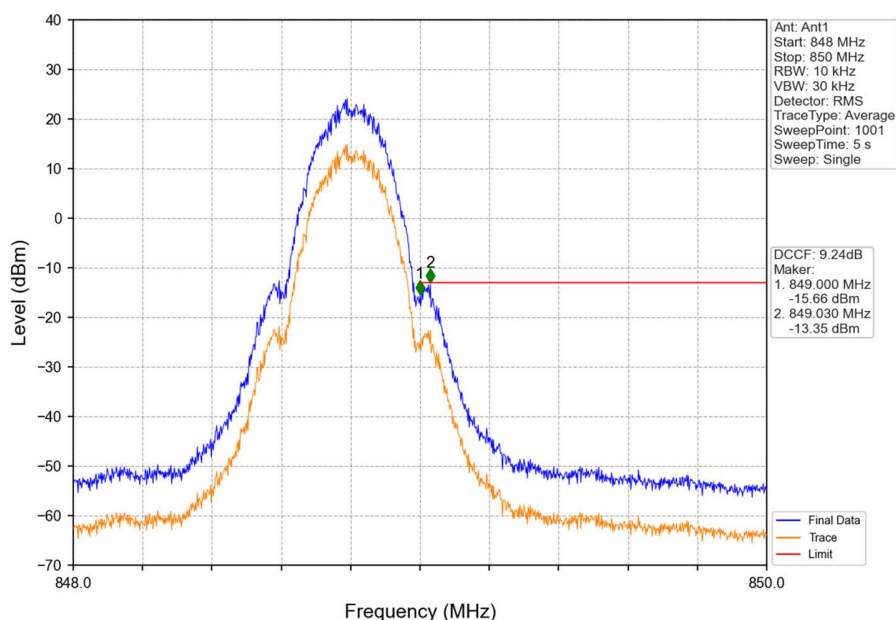
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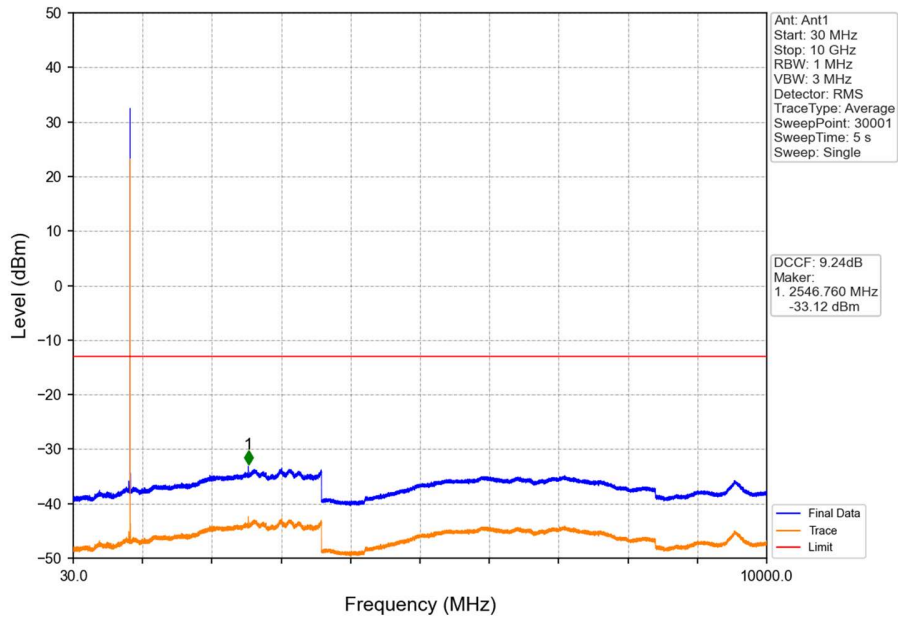
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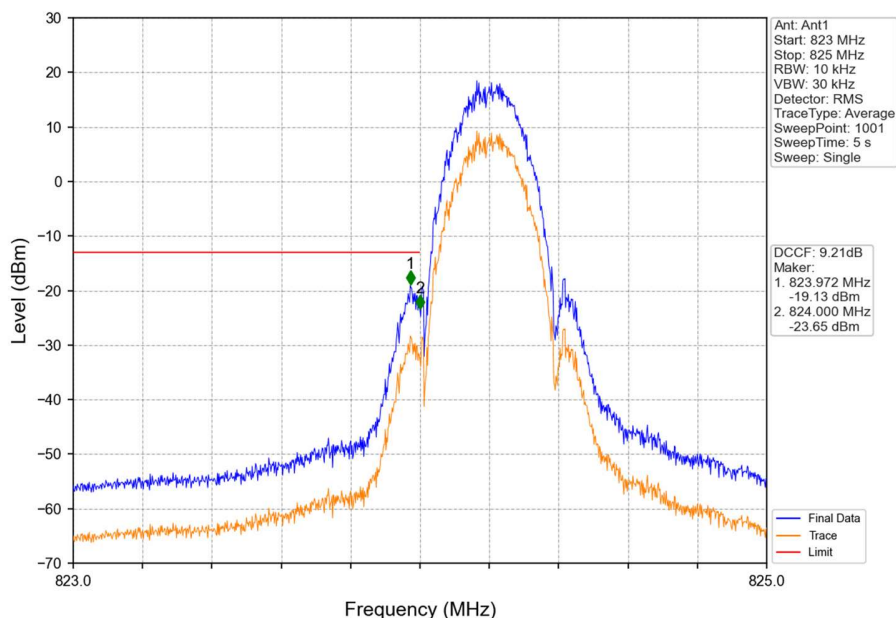
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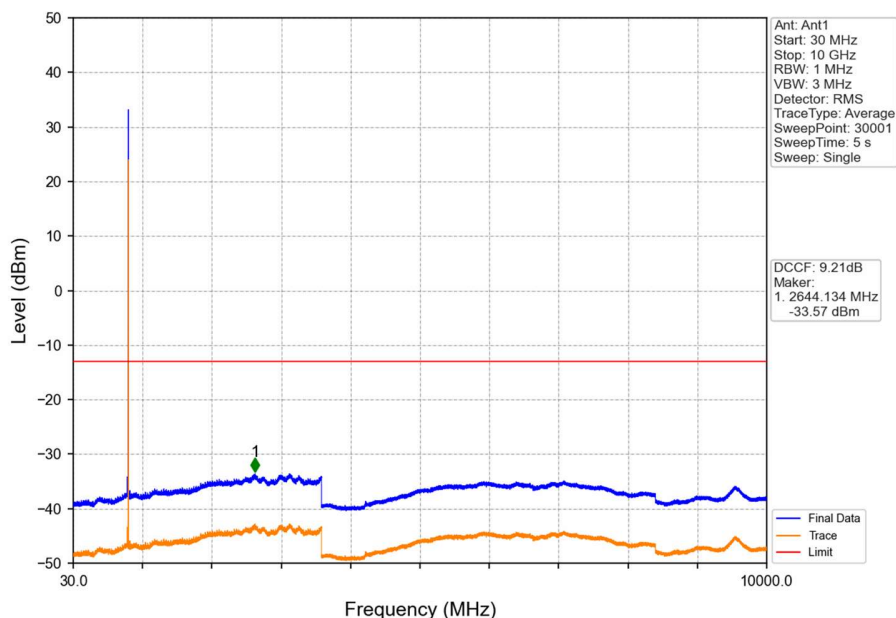
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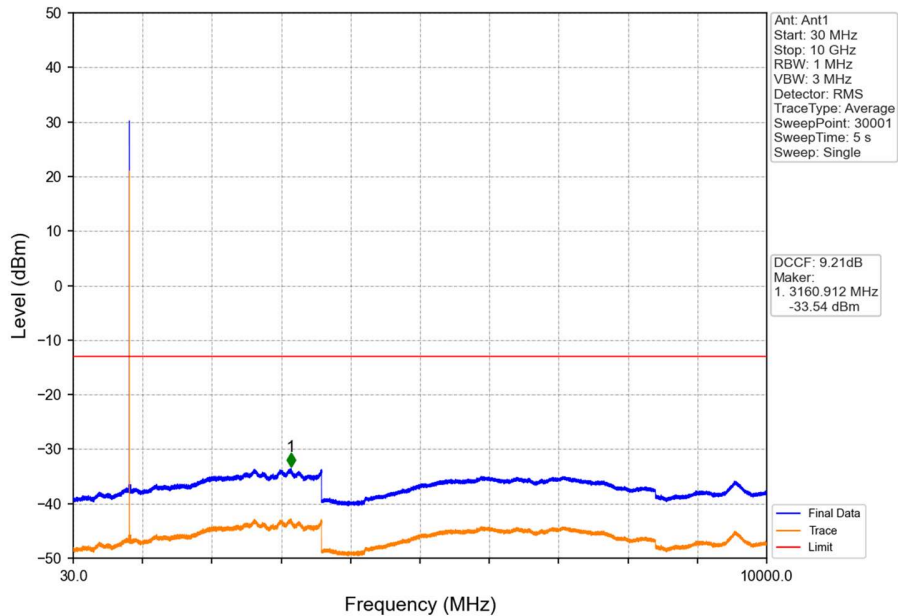
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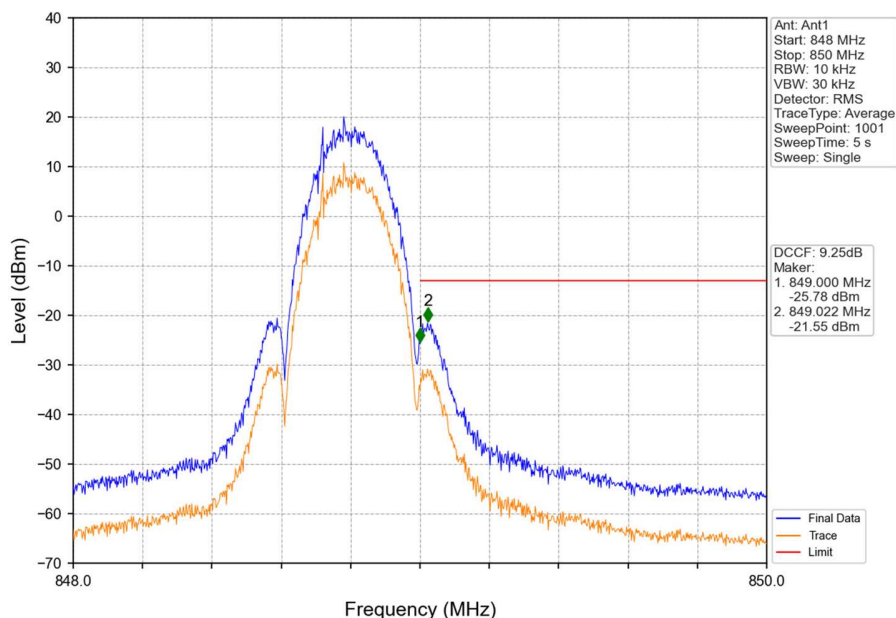
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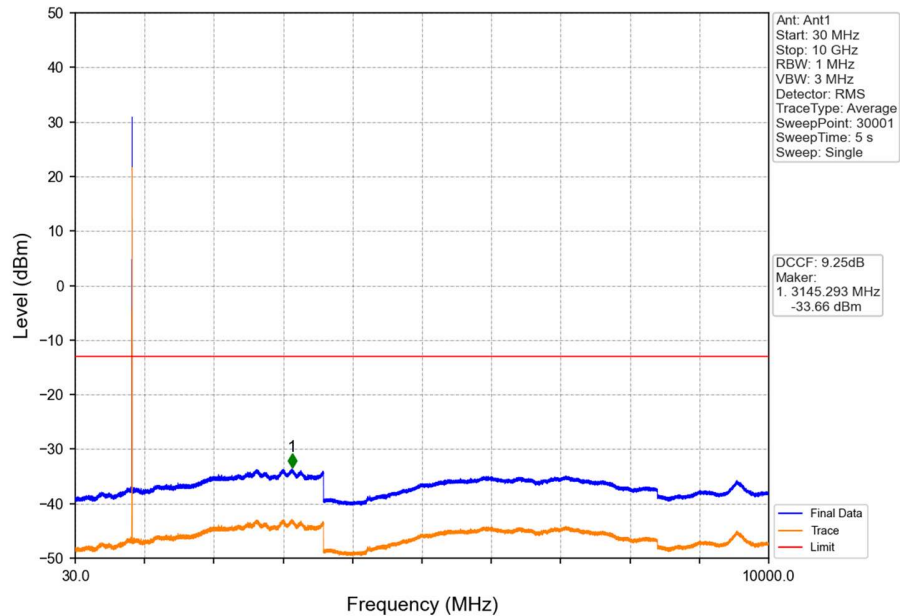
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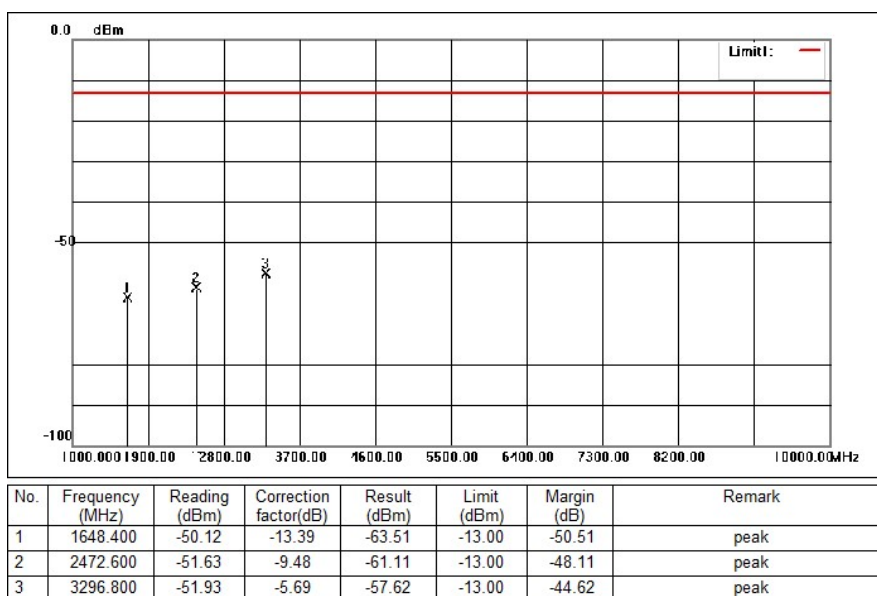


7. Field Strength of Spurious Radiation

Up Antenna

GSM850-Low channel

Polarization: H



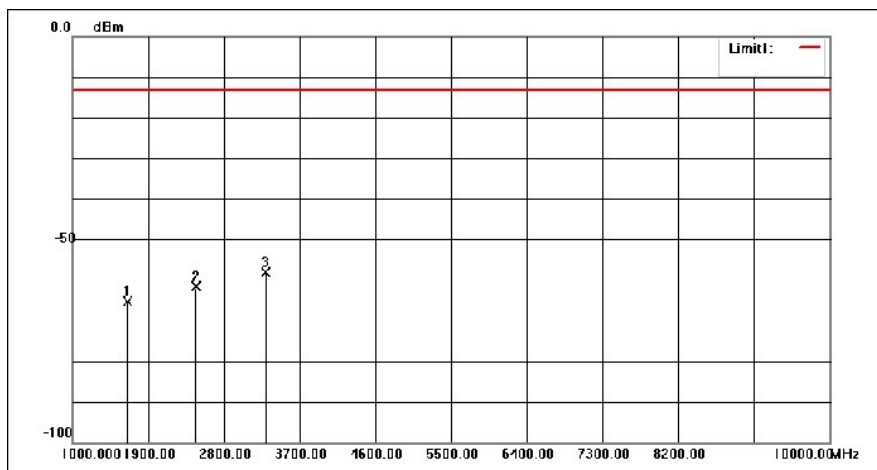
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1648.400	-51.89	-13.39	-65.28	-13.00	-52.28	peak
2	2472.600	-52.24	-9.48	-61.72	-13.00	-48.72	peak
3	3296.800	-52.49	-5.69	-58.18	-13.00	-45.18	peak



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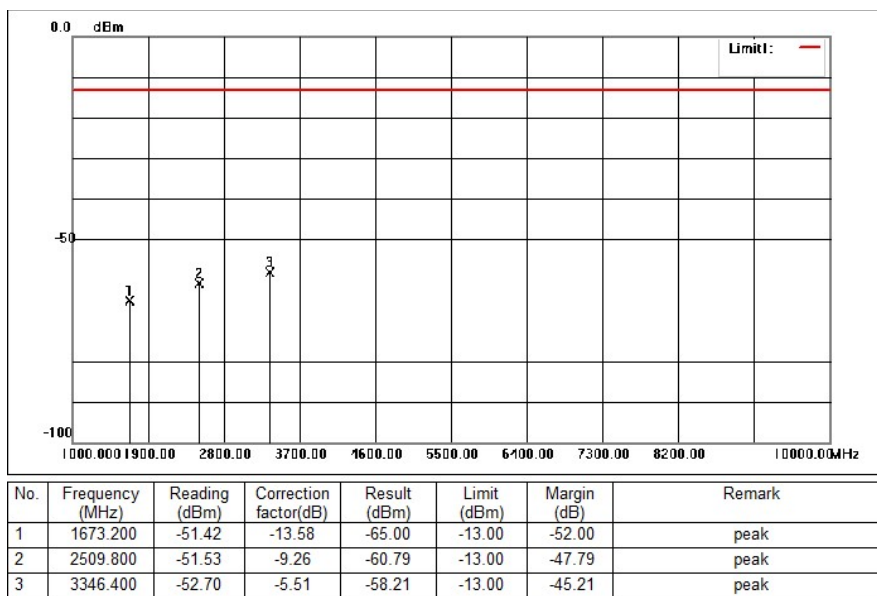
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GSM850-Middle channel

Polarization: H



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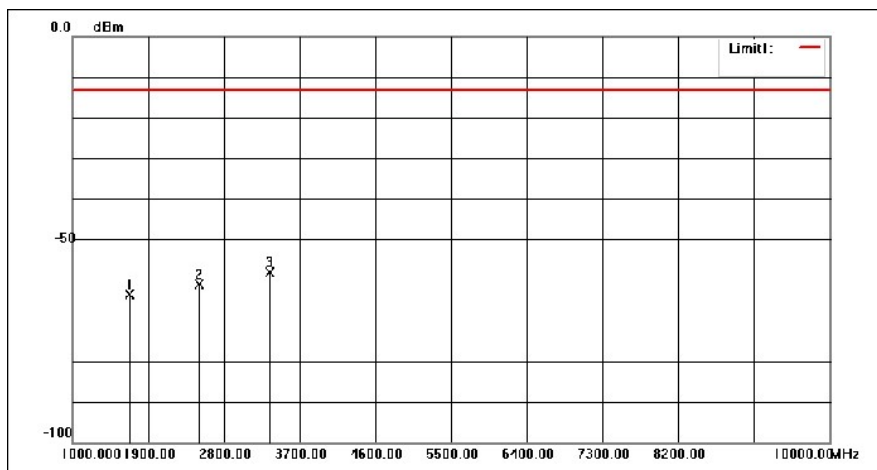
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-49.99	-13.58	-63.57	-13.00	-50.57	peak
2	2509.800	-51.93	-9.26	-61.19	-13.00	-48.19	peak
3	3346.400	-52.73	-5.51	-58.24	-13.00	-45.24	peak



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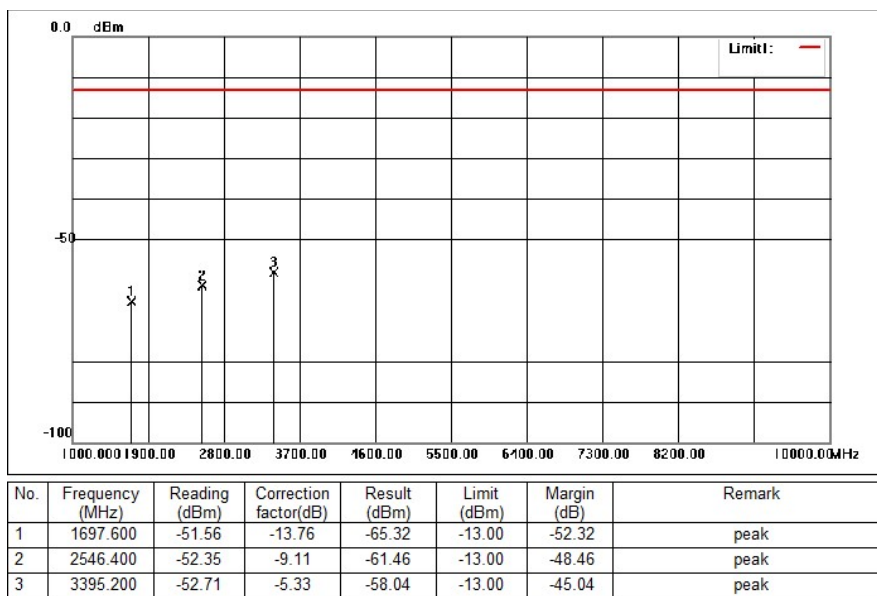
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GSM850-High channel

Polarization: H

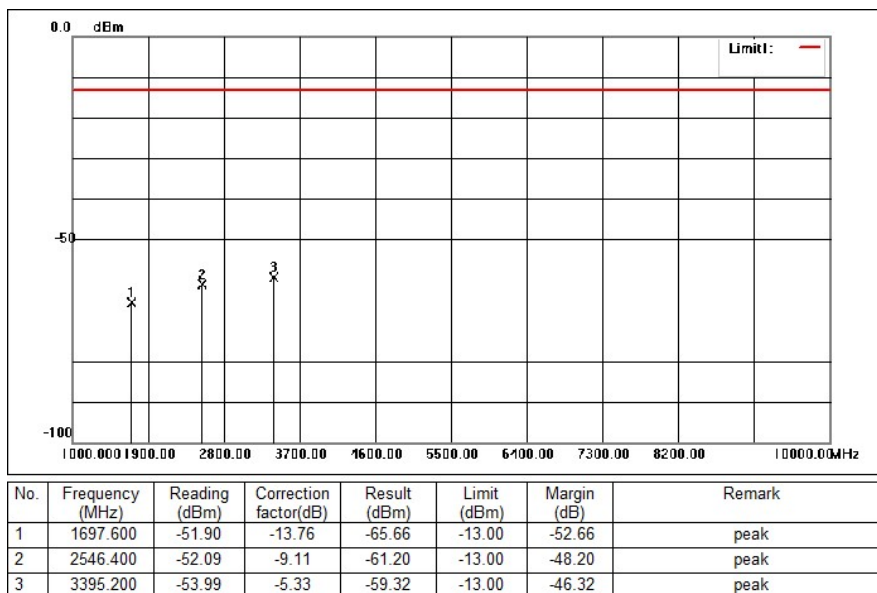


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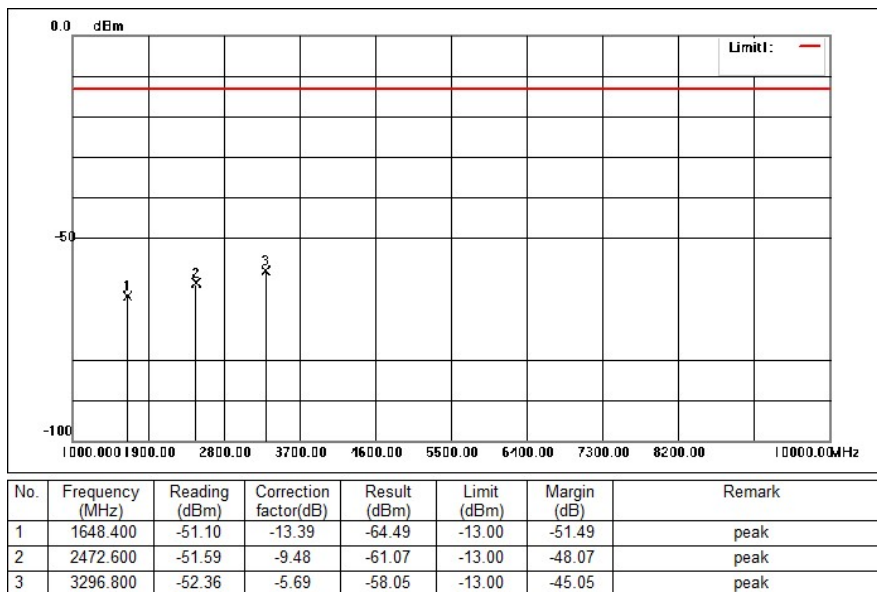
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Down Antenna

GSM850-Low channel

Polarization: H



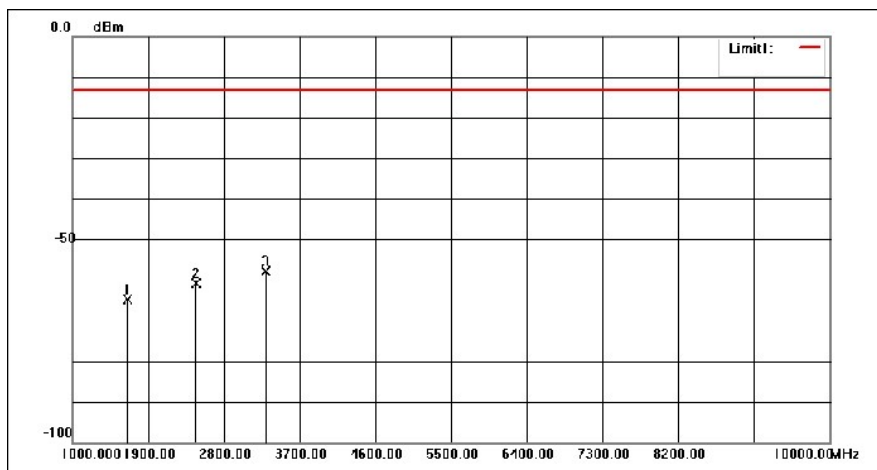
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1648.400	-51.46	-13.39	-64.85	-13.00	-51.85	peak
2	2472.600	-51.40	-9.48	-60.88	-13.00	-47.88	peak
3	3296.800	-52.28	-5.69	-57.97	-13.00	-44.97	peak



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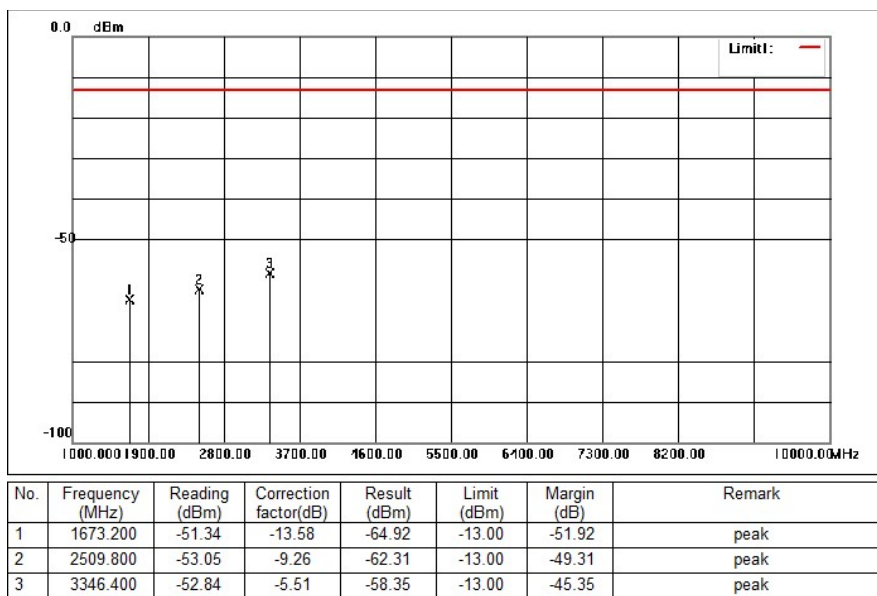
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GSM850-Middle channel

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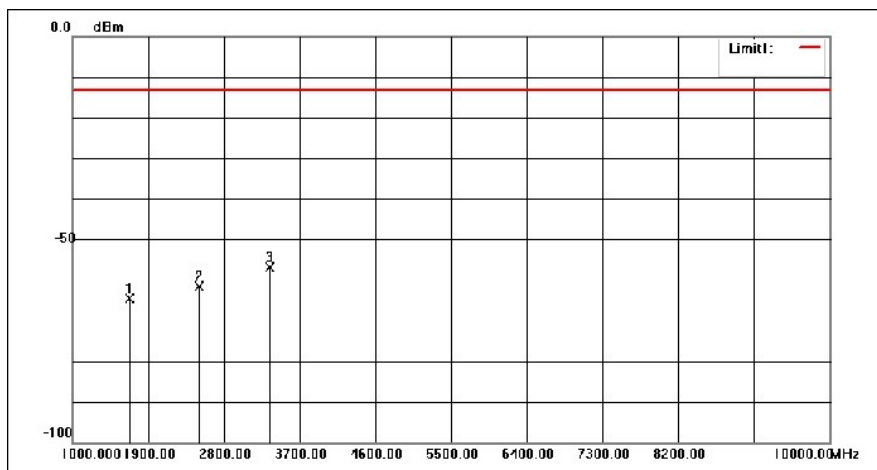
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Polarization: V



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1	1673.200	-51.15	-13.58	-64.73	-13.00	-51.73	peak
2	2509.800	-52.29	-9.26	-61.55	-13.00	-48.55	peak
3	3346.400	-51.34	-5.51	-56.85	-13.00	-43.85	peak



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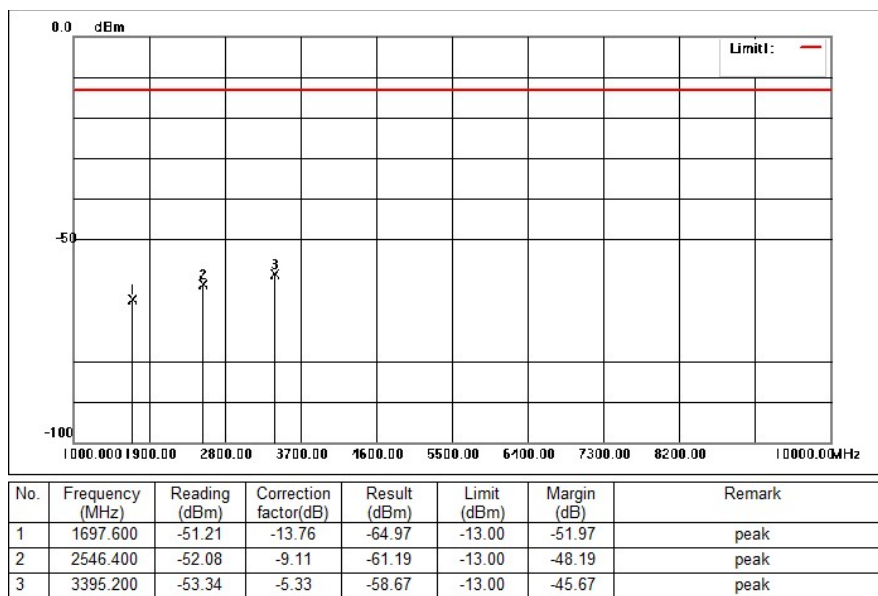
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GSM850-High channel

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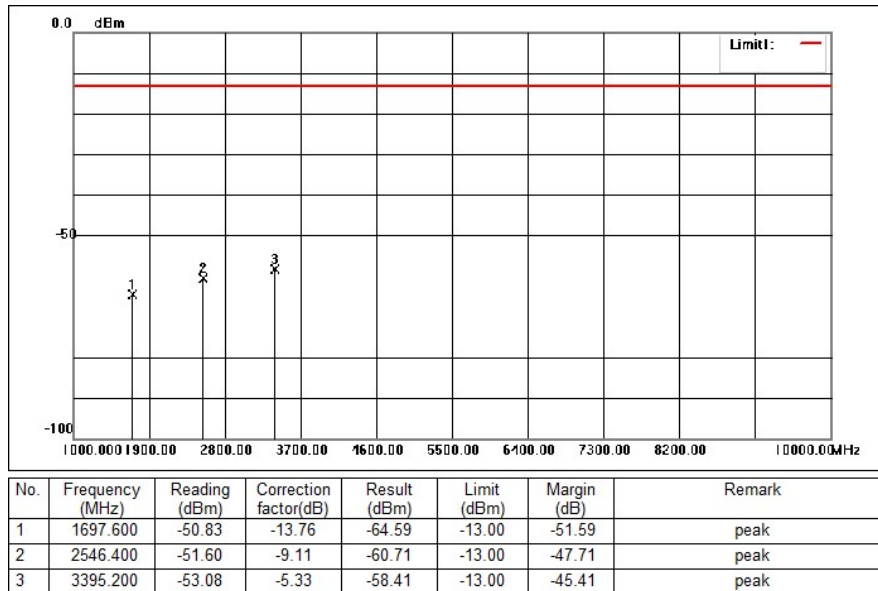
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Polarization: V



Remark1:According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

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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