



## Appendix B.2 for KSEM2108001480CR-GSM 1900

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

#### 1.1 PCS1900\_EIRP

##### 1.1.1 Test Result

Band: PCS1900								
ENV	Mode		Frequency (MHz)	Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	1850.2	29.39	-5.40	23.99	<=33.01	Pass
			1880	29.19	-5.40	23.79	<=33.01	Pass
			1909.8	28.96	-5.40	23.56	<=33.01	Pass
	GPRS	1 TX Slot	1850.2	29.38	-5.40	23.98	<=33.01	Pass
		2 TX Slots	1850.2	26.46	-5.40	21.06	<=33.01	Pass
		3 TX Slots	1850.2	24.45	-5.40	19.05	<=33.01	Pass
		4 TX Slots	1850.2	23.06	-5.40	17.66	<=33.01	Pass
		1 TX Slot	1880	29.17	-5.40	23.77	<=33.01	Pass
		2 TX Slots	1880	26.11	-5.40	20.71	<=33.01	Pass
		3 TX Slots	1880	24.10	-5.40	18.70	<=33.01	Pass
		4 TX Slots	1880	22.82	-5.40	17.42	<=33.01	Pass
		1 TX Slot	1909.8	28.98	-5.40	23.58	<=33.01	Pass
		2 TX Slots	1909.8	25.92	-5.40	20.52	<=33.01	Pass
		3 TX Slots	1909.8	23.88	-5.40	18.48	<=33.01	Pass
		4 TX Slots	1909.8	22.58	-5.40	17.18	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	25.65	-5.40	20.25	<=33.01	Pass
		2 TX Slots	1850.2	23.62	-5.40	18.22	<=33.01	Pass
		3 TX Slots	1850.2	21.52	-5.40	16.12	<=33.01	Pass
		4 TX Slots	1850.2	20.46	-5.40	15.06	<=33.01	Pass
		1 TX Slot	1880	25.37	-5.40	19.97	<=33.01	Pass
		2 TX Slots	1880	23.35	-5.40	17.95	<=33.01	Pass
		3 TX Slots	1880	21.23	-5.40	15.83	<=33.01	Pass
		4 TX Slots	1880	20.16	-5.40	14.76	<=33.01	Pass
		1 TX Slot	1909.8	25.20	-5.40	19.80	<=33.01	Pass
		2 TX Slots	1909.8	23.43	-5.40	18.03	<=33.01	Pass
		3 TX Slots	1909.8	20.82	-5.40	15.42	<=33.01	Pass
		4 TX Slots	1909.8	19.91	-5.40	14.51	<=33.01	Pass

Note1: EIRP=Power+Antenna Gain

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 PCS1900

#### 2.1.1 Test Result

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	1850.2	20	3.27	26.18	0.01	-2.5 to 2.5	Pass
			3.85	28.28	0.02	-2.5 to 2.5	Pass
			4.43	29.19	0.02	-2.5 to 2.5	Pass
		-30	3.85	22.28	0.01	-2.5 to 2.5	Pass
		-20	3.85	24.63	0.01	-2.5 to 2.5	Pass
		-10	3.85	32.32	0.02	-2.5 to 2.5	Pass
		0	3.85	31.38	0.02	-2.5 to 2.5	Pass
		10	3.85	29.77	0.02	-2.5 to 2.5	Pass
		30	3.85	31.06	0.02	-2.5 to 2.5	Pass
		40	3.85	27.44	0.01	-2.5 to 2.5	Pass
		50	3.85	30.77	0.02	-2.5 to 2.5	Pass
	1880	20	3.27	43.65	0.02	-2.5 to 2.5	Pass
			3.85	41.16	0.02	-2.5 to 2.5	Pass
			4.43	44.62	0.02	-2.5 to 2.5	Pass
		-30	3.85	42.46	0.02	-2.5 to 2.5	Pass
		-20	3.85	39.94	0.02	-2.5 to 2.5	Pass
		-10	3.85	36.00	0.02	-2.5 to 2.5	Pass
		0	3.85	43.62	0.02	-2.5 to 2.5	Pass
		10	3.85	41.65	0.02	-2.5 to 2.5	Pass
		30	3.85	39.91	0.02	-2.5 to 2.5	Pass
		40	3.85	35.51	0.02	-2.5 to 2.5	Pass
		50	3.85	42.94	0.02	-2.5 to 2.5	Pass
	1909.8	20	3.27	52.66	0.03	-2.5 to 2.5	Pass
			3.85	49.37	0.03	-2.5 to 2.5	Pass
			4.43	51.46	0.03	-2.5 to 2.5	Pass
		-30	3.85	47.82	0.03	-2.5 to 2.5	Pass
		-20	3.85	49.88	0.03	-2.5 to 2.5	Pass
		-10	3.85	53.76	0.03	-2.5 to 2.5	Pass
		0	3.85	47.62	0.02	-2.5 to 2.5	Pass
		10	3.85	49.69	0.03	-2.5 to 2.5	Pass
		30	3.85	53.21	0.03	-2.5 to 2.5	Pass
		40	3.85	48.53	0.03	-2.5 to 2.5	Pass
		50	3.85	48.11	0.03	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.27	44.13	0.02	-2.5 to 2.5	Pass
			3.85	43.30	0.02	-2.5 to 2.5	Pass
			4.43	42.84	0.02	-2.5 to 2.5	Pass
		-30	3.85	43.81	0.02	-2.5 to 2.5	Pass
		-20	3.85	44.33	0.02	-2.5 to 2.5	Pass



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EGPRS		-10	3.85	46.69	0.03	-2.5 to 2.5	Pass
		0	3.85	44.33	0.02	-2.5 to 2.5	Pass
		10	3.85	42.26	0.02	-2.5 to 2.5	Pass
		30	3.85	43.42	0.02	-2.5 to 2.5	Pass
		40	3.85	43.04	0.02	-2.5 to 2.5	Pass
		50	3.85	43.00	0.02	-2.5 to 2.5	Pass
	1880	20	3.27	42.36	0.02	-2.5 to 2.5	Pass
			3.85	45.72	0.02	-2.5 to 2.5	Pass
			4.43	50.08	0.03	-2.5 to 2.5	Pass
		-30	3.85	47.17	0.03	-2.5 to 2.5	Pass
		-20	3.85	47.82	0.03	-2.5 to 2.5	Pass
		-10	3.85	45.39	0.02	-2.5 to 2.5	Pass
		0	3.85	51.01	0.03	-2.5 to 2.5	Pass
		10	3.85	47.23	0.03	-2.5 to 2.5	Pass
		30	3.85	45.23	0.02	-2.5 to 2.5	Pass
		40	3.85	51.43	0.03	-2.5 to 2.5	Pass
		50	3.85	47.23	0.03	-2.5 to 2.5	Pass
	1909.8	20	3.27	60.60	0.03	-2.5 to 2.5	Pass
			3.85	60.15	0.03	-2.5 to 2.5	Pass
			4.43	62.47	0.03	-2.5 to 2.5	Pass
		-30	3.85	59.21	0.03	-2.5 to 2.5	Pass
		-20	3.85	63.22	0.03	-2.5 to 2.5	Pass
		-10	3.85	58.05	0.03	-2.5 to 2.5	Pass
		0	3.85	63.57	0.03	-2.5 to 2.5	Pass
		10	3.85	60.76	0.03	-2.5 to 2.5	Pass
		30	3.85	63.54	0.03	-2.5 to 2.5	Pass
		40	3.85	58.50	0.03	-2.5 to 2.5	Pass
		50	3.85	62.12	0.03	-2.5 to 2.5	Pass
	1850.2	20	3.27	52.56	0.03	-2.5 to 2.5	Pass
			3.85	48.49	0.03	-2.5 to 2.5	Pass
			4.43	51.63	0.03	-2.5 to 2.5	Pass
		-30	3.85	46.23	0.03	-2.5 to 2.5	Pass
		-20	3.85	47.17	0.03	-2.5 to 2.5	Pass
		-10	3.85	49.78	0.03	-2.5 to 2.5	Pass
		0	3.85	50.85	0.03	-2.5 to 2.5	Pass
		10	3.85	48.11	0.03	-2.5 to 2.5	Pass
		30	3.85	50.91	0.03	-2.5 to 2.5	Pass
		40	3.85	46.85	0.03	-2.5 to 2.5	Pass
		50	3.85	49.66	0.03	-2.5 to 2.5	Pass
	1880	20	3.27	47.30	0.03	-2.5 to 2.5	Pass
			3.85	45.98	0.02	-2.5 to 2.5	Pass
			4.43	42.49	0.02	-2.5 to 2.5	Pass
		-30	3.85	43.81	0.02	-2.5 to 2.5	Pass
		-20	3.85	52.01	0.03	-2.5 to 2.5	Pass
		-10	3.85	52.21	0.03	-2.5 to 2.5	Pass
		0	3.85	49.37	0.03	-2.5 to 2.5	Pass
		10	3.85	50.14	0.03	-2.5 to 2.5	Pass
		30	3.85	48.27	0.03	-2.5 to 2.5	Pass



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	1909.8	40	3.85	49.69	0.03	-2.5 to 2.5	Pass
		50	3.85	55.53	0.03	-2.5 to 2.5	Pass
		20	3.27	62.09	0.03	-2.5 to 2.5	Pass
			3.85	64.51	0.03	-2.5 to 2.5	Pass
			4.43	56.63	0.03	-2.5 to 2.5	Pass
		-30	3.85	61.41	0.03	-2.5 to 2.5	Pass
		-20	3.85	59.24	0.03	-2.5 to 2.5	Pass
		-10	3.85	59.05	0.03	-2.5 to 2.5	Pass
		0	3.85	60.15	0.03	-2.5 to 2.5	Pass
		10	3.85	59.15	0.03	-2.5 to 2.5	Pass
		30	3.85	59.63	0.03	-2.5 to 2.5	Pass
		40	3.85	61.89	0.03	-2.5 to 2.5	Pass
		50	3.85	62.99	0.03	-2.5 to 2.5	Pass

### 3. Modulation Characteristics

#### 3.1 PCS1900

##### 3.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1880	Refer To Test Graph		Pass
	GPRS	1 TX Slot	1880	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1880	Refer To Test Graph		Pass



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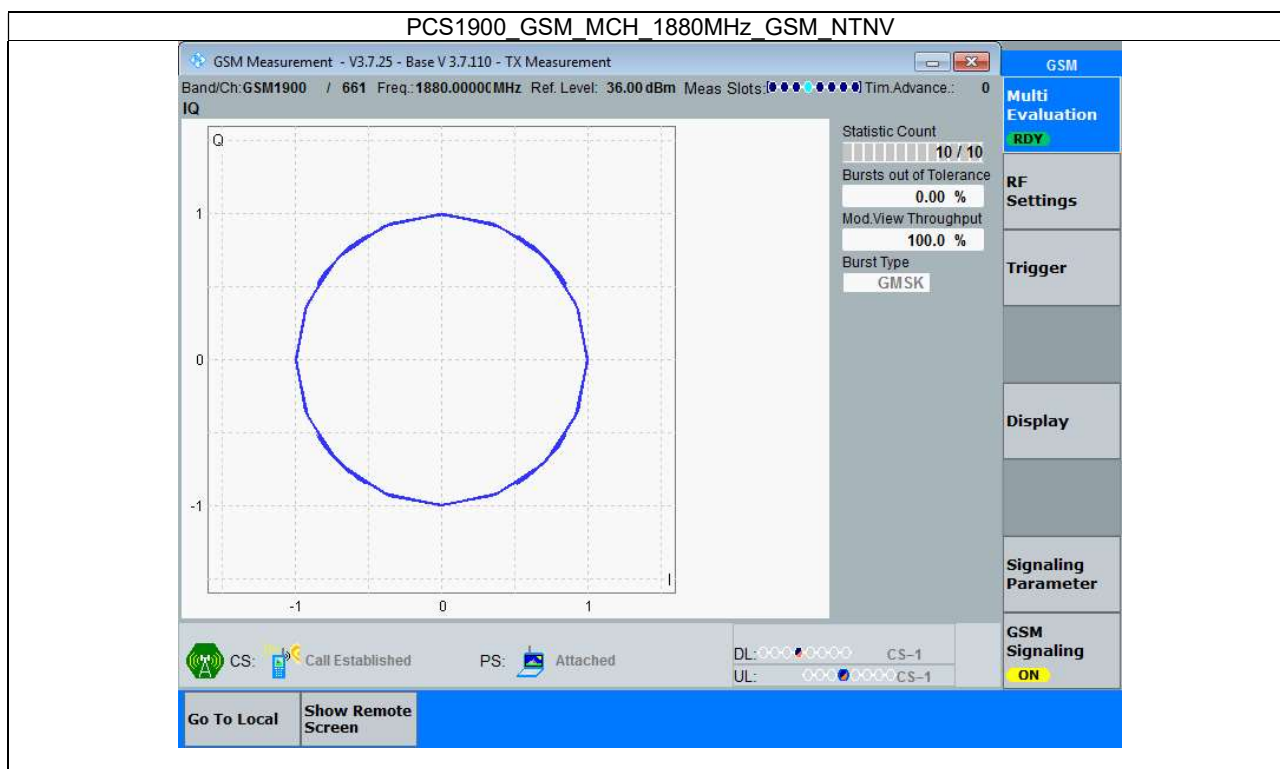
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### 3.1.2 Test Graph

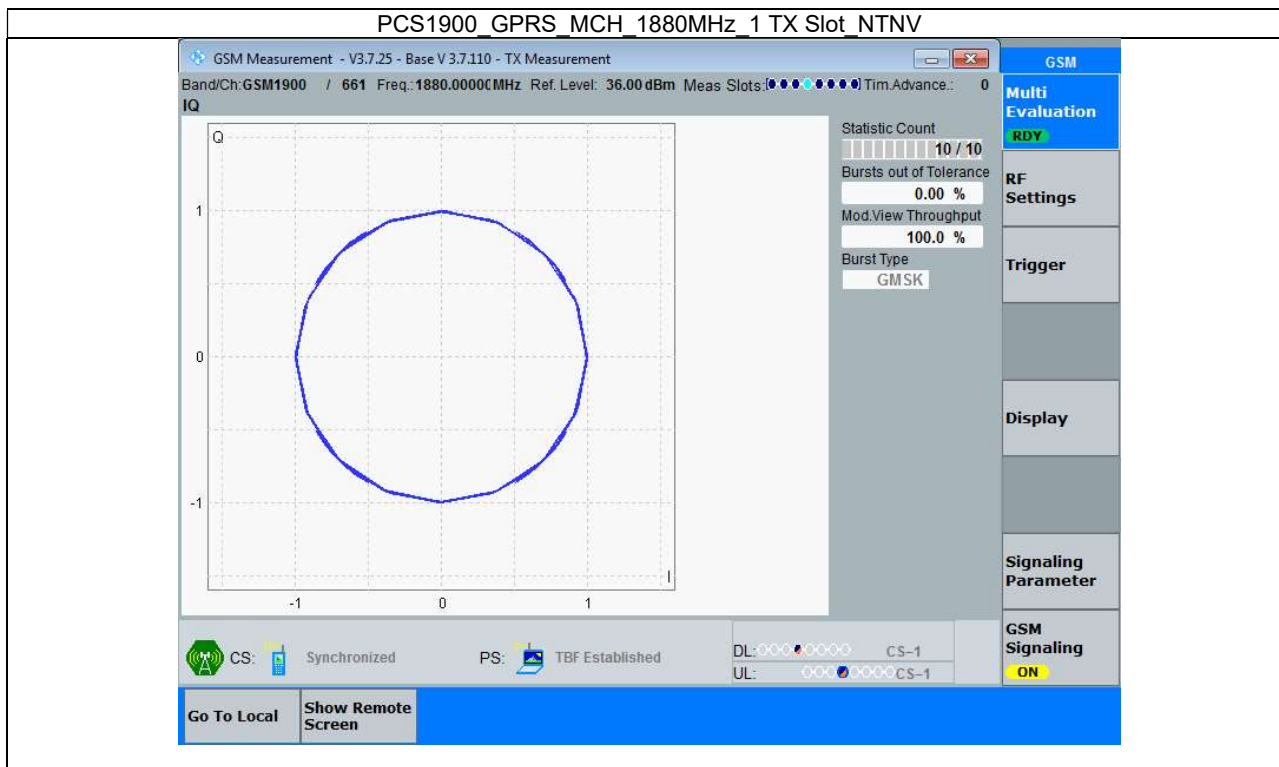


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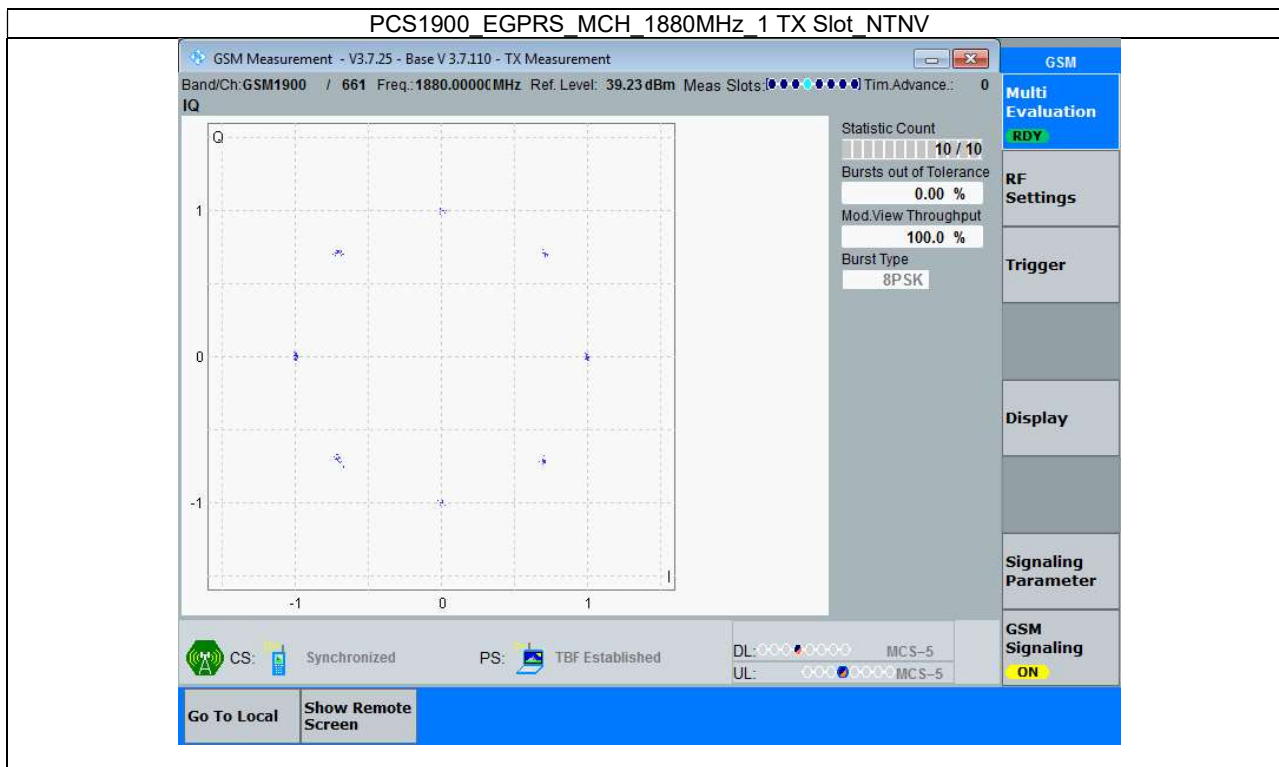
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## 4. 99% & 26dB Bandwidth

### 4.1 PCS1900\_OBW

#### 4.1.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	1850.2	0.242	Pass
			1880	0.244	Pass
			1909.8	0.244	Pass
	GPRS	1 TX Slot	1850.2	0.244	Pass
			1880	0.241	Pass
			1909.8	0.247	Pass
	EGPRS	1 TX Slot	1850.2	0.246	Pass
			1880	0.246	Pass
			1909.8	0.244	Pass



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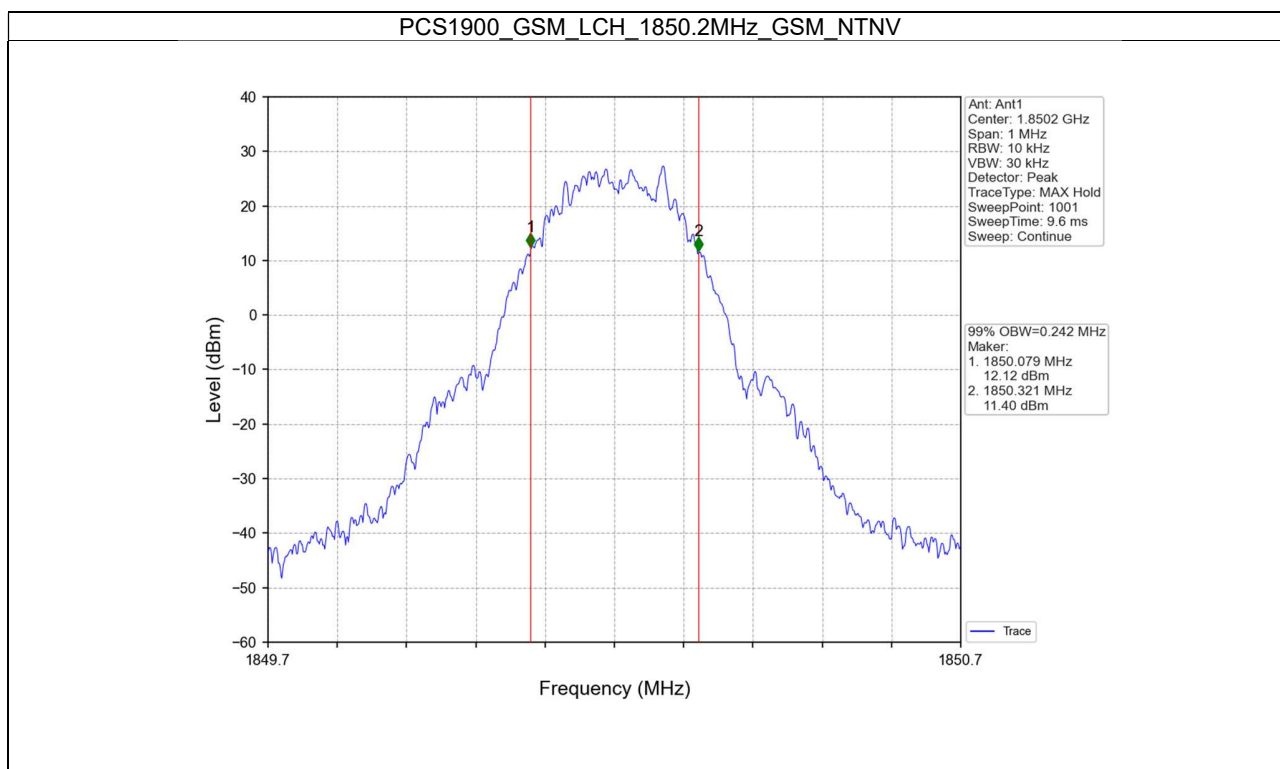
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#### 4.1.2 Test Graph



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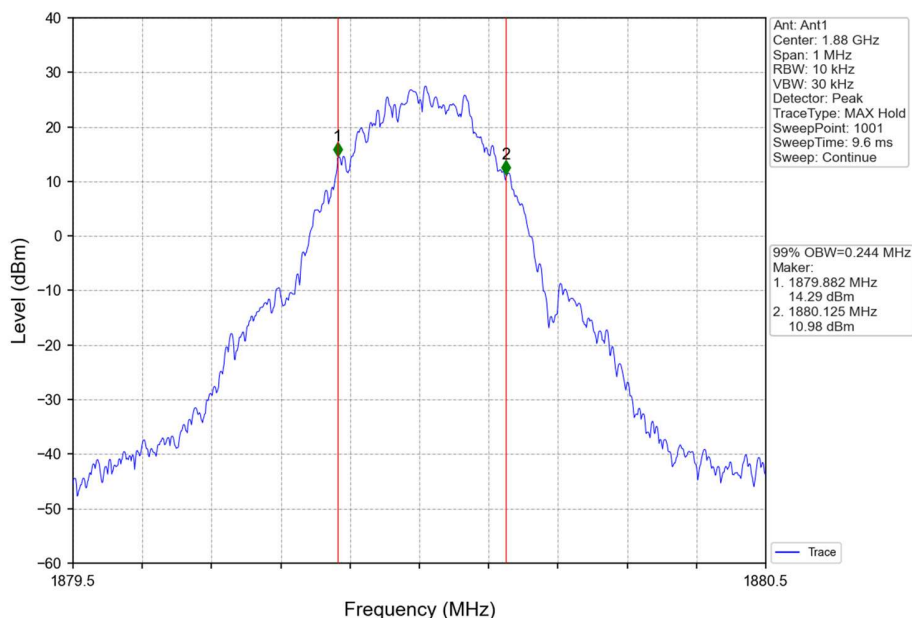
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PCS1900\_GSM\_MCH\_1880MHz\_GSM\_NTNV



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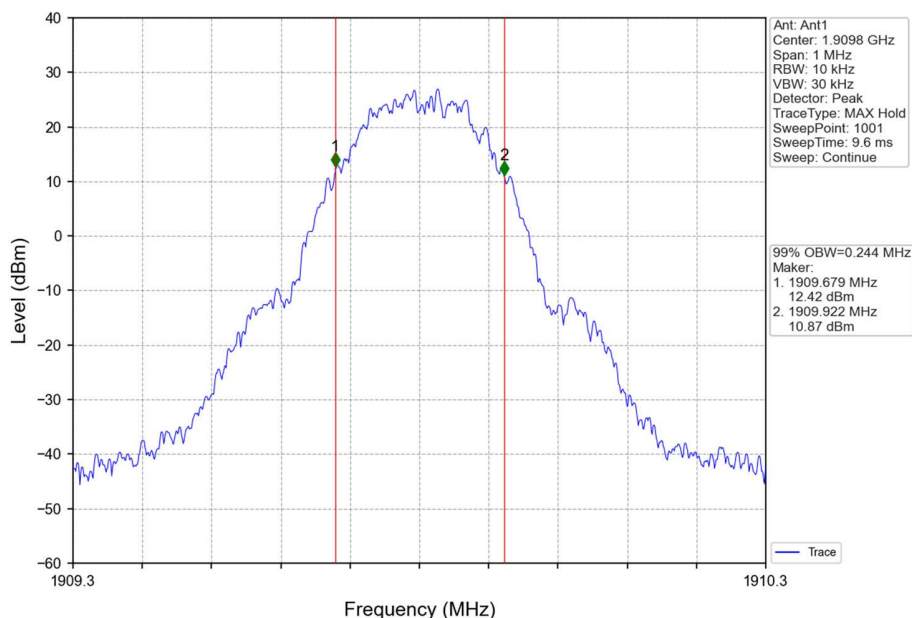
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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



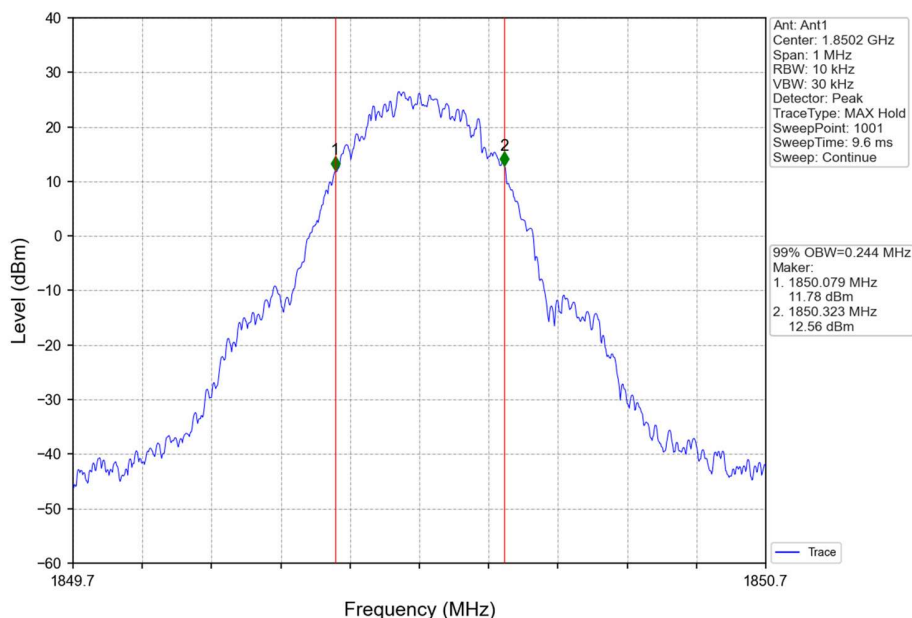
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## PCS1900\_GPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



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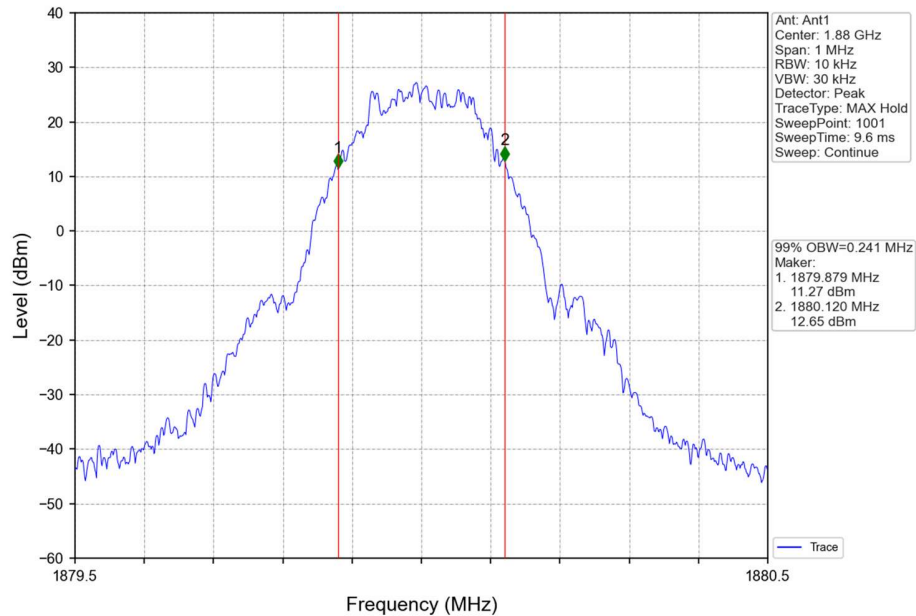
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PCS1900\_GPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



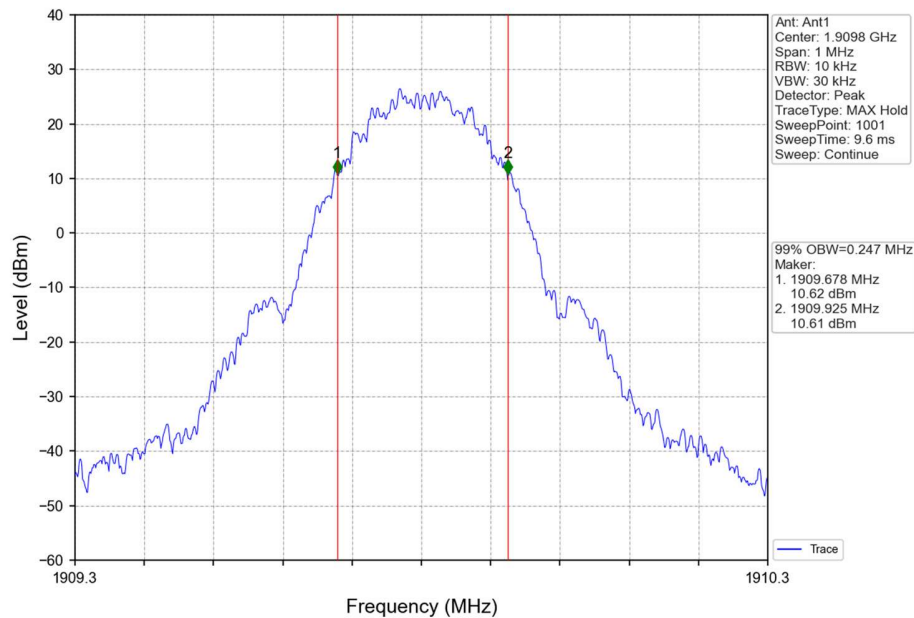
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## PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



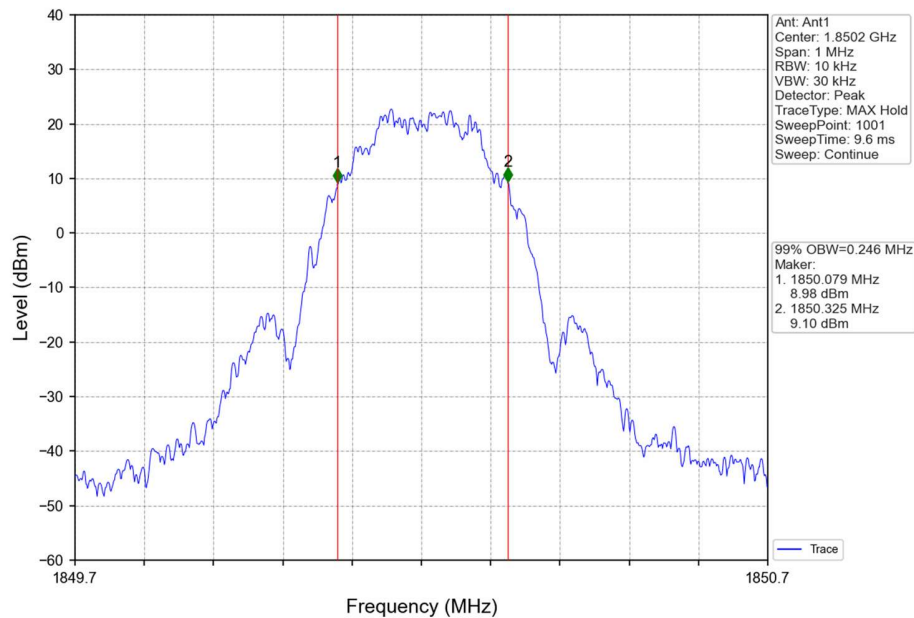
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## PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



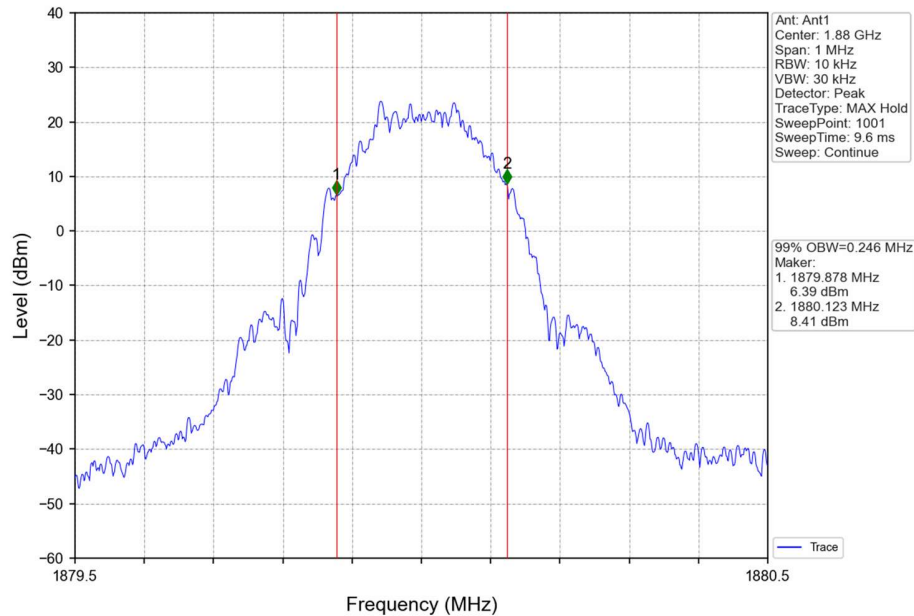
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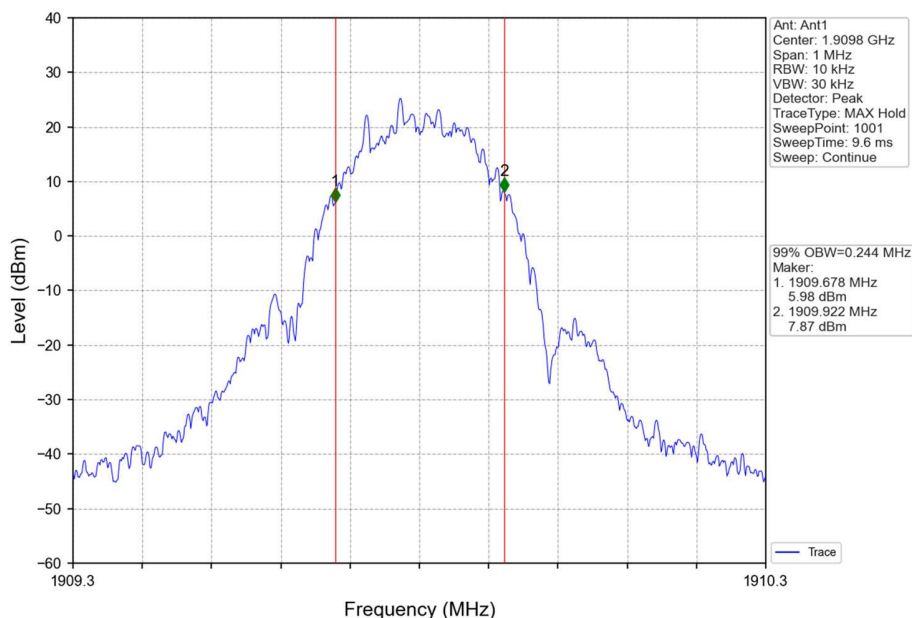
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## 4.2 PCS1900\_XDB

### 4.2.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	1850.2	0.314	Pass
			1880	0.312	Pass
			1909.8	0.311	Pass
	GPRS	1 TX Slot	1850.2	0.322	Pass
			1880	0.314	Pass
			1909.8	0.317	Pass
	EGPRS	1 TX Slot	1850.2	0.319	Pass
			1880	0.315	Pass
			1909.8	0.305	Pass

### 4.2.2 Test Graph



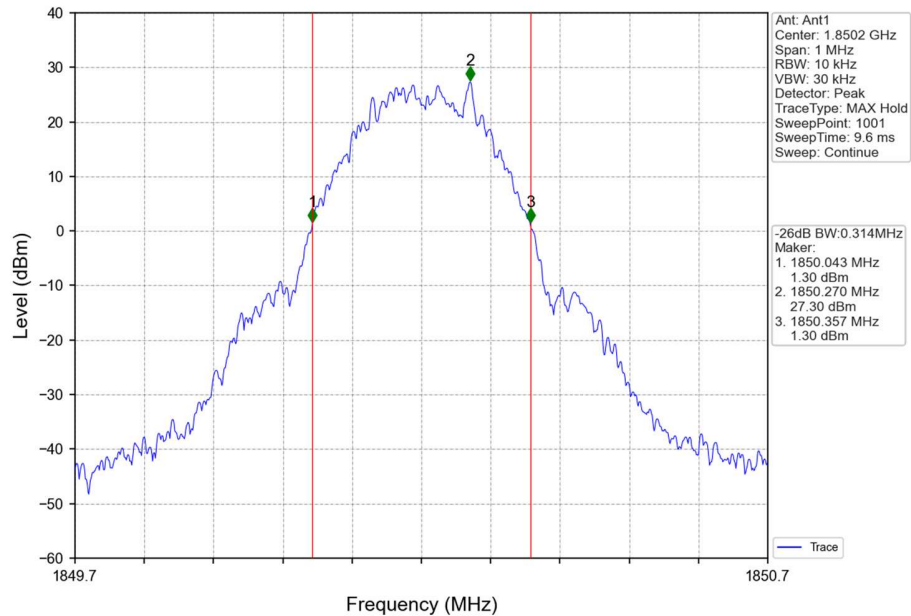
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## PCS1900\_GSM\_LCH\_1850.2MHz\_GSM\_NTNV



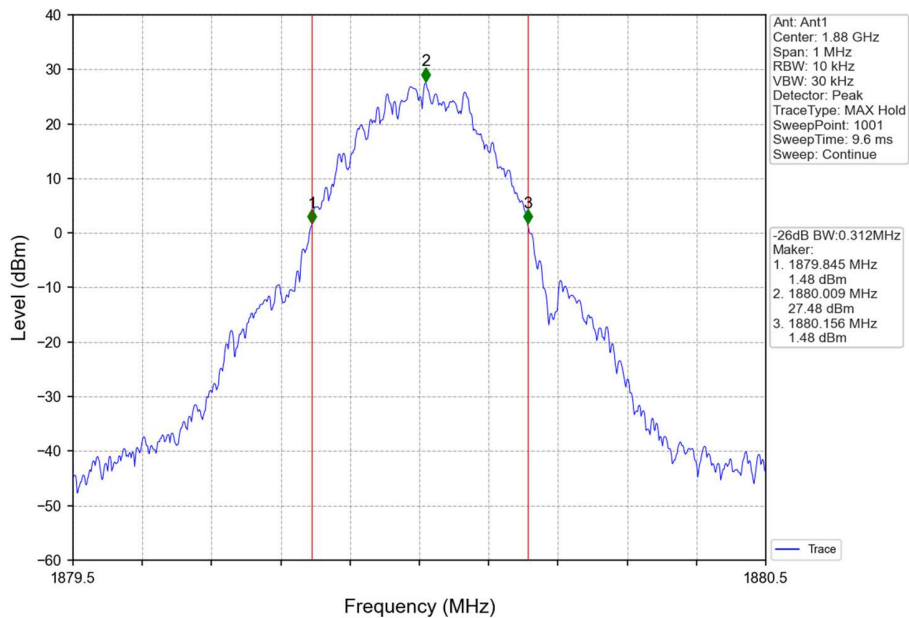
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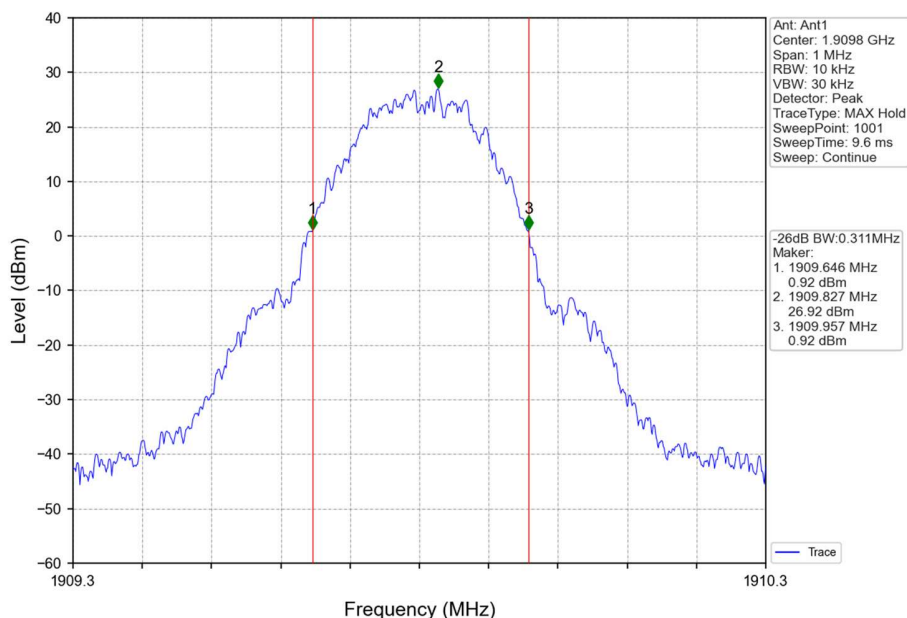
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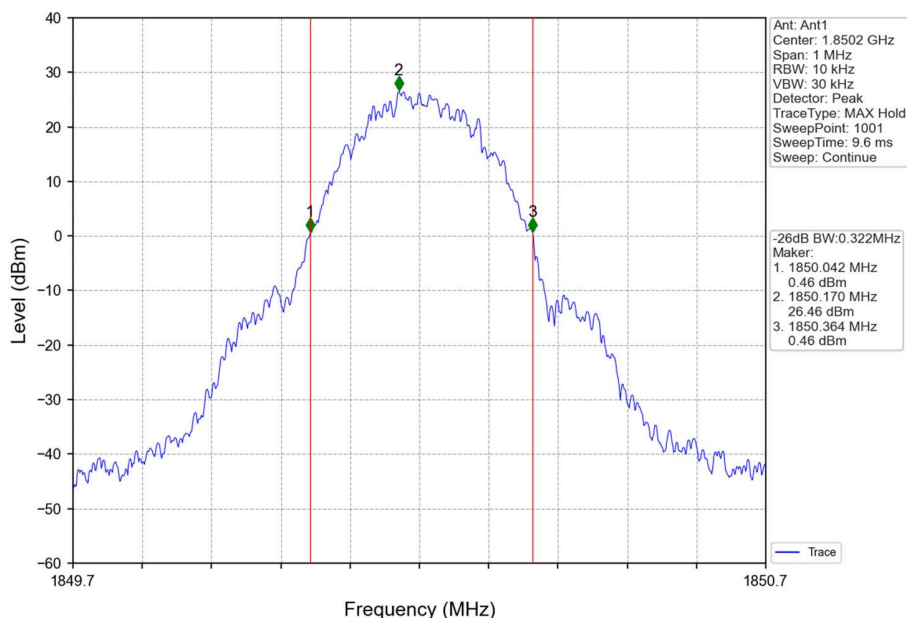
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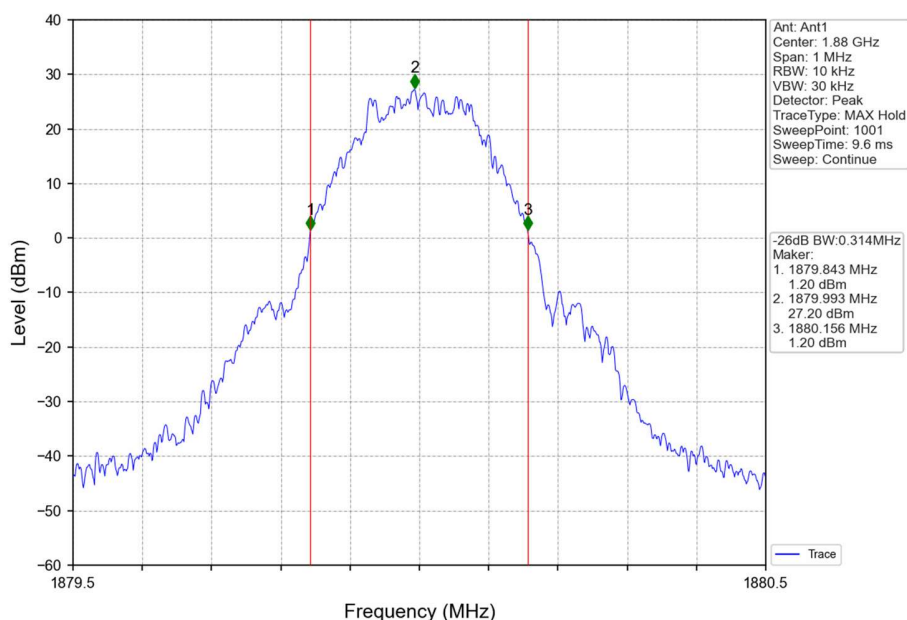
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## PCS1900\_GPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



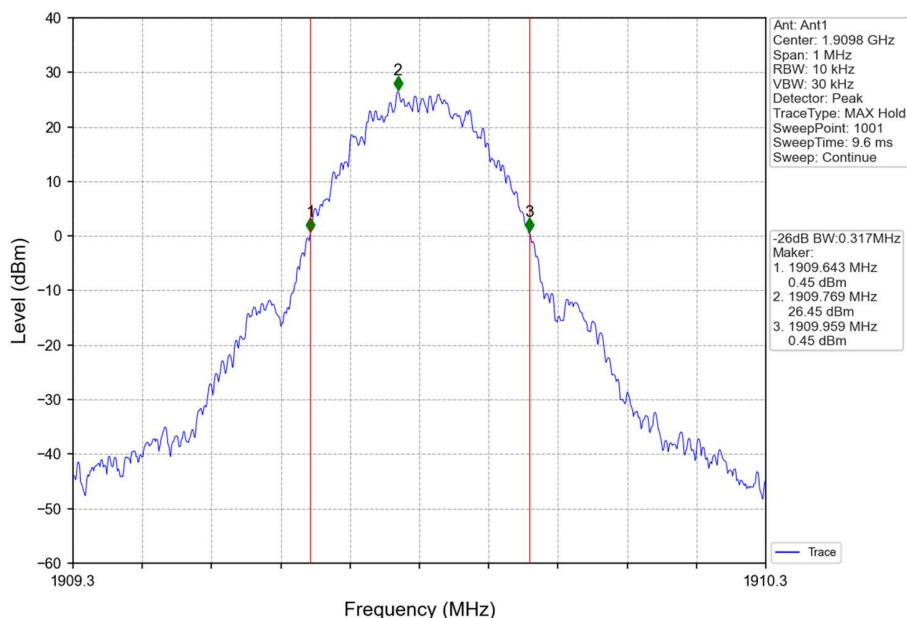
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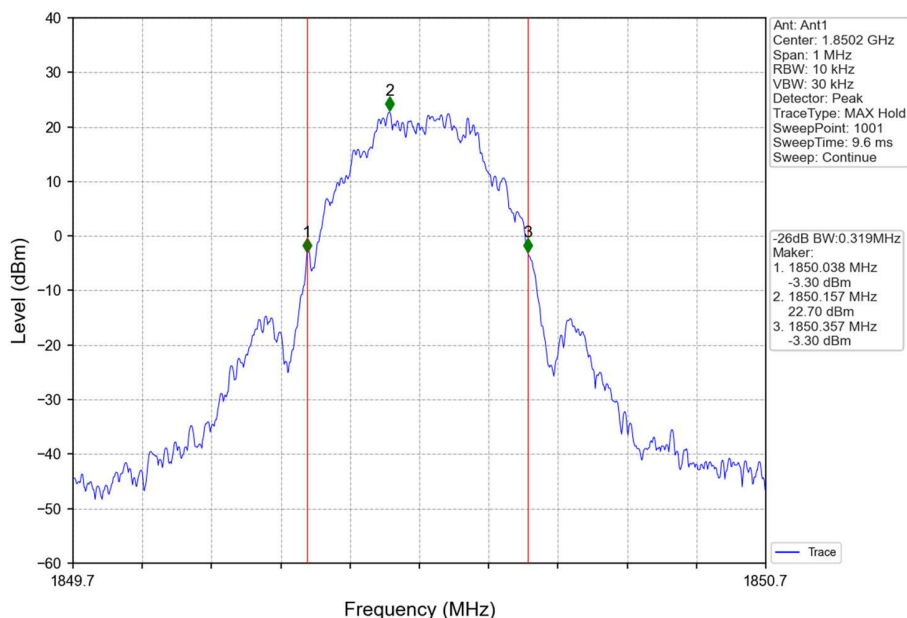
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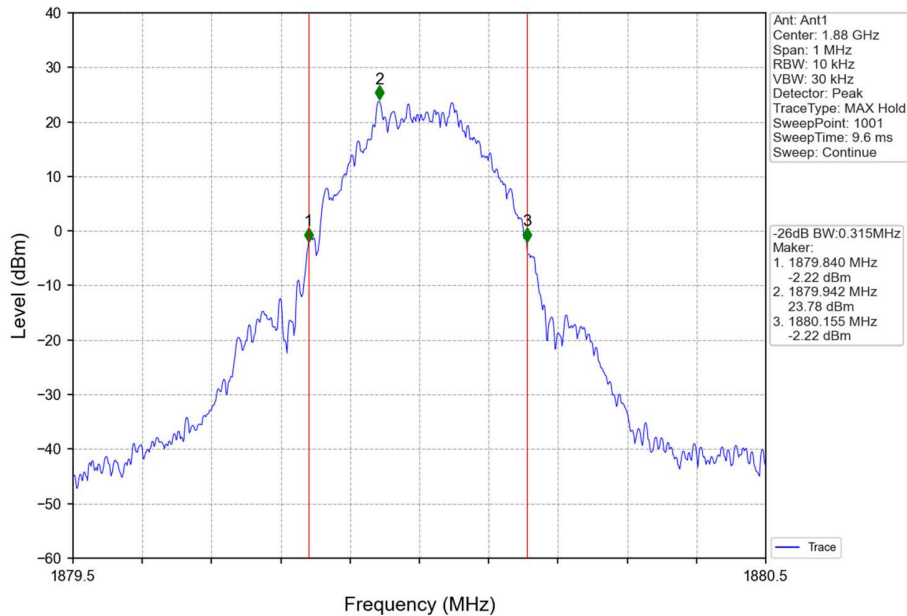
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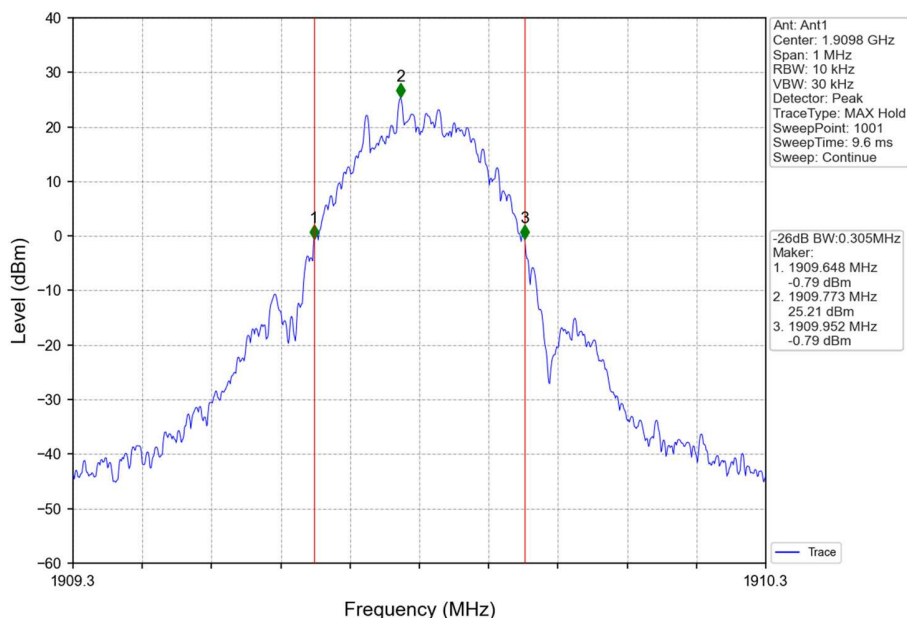
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## 5. Peak-Average Ratio

### 5.1 PCS1900

#### 5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.59	<=13	Pass
			1880	9.36	<=13	Pass
			1909.8	9.48	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.62	<=13	Pass
			1880	3.71	<=13	Pass
			1909.8	3.72	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.77	<=13	Pass
			1880	6.76	<=13	Pass
			1909.8	6.69	<=13	Pass



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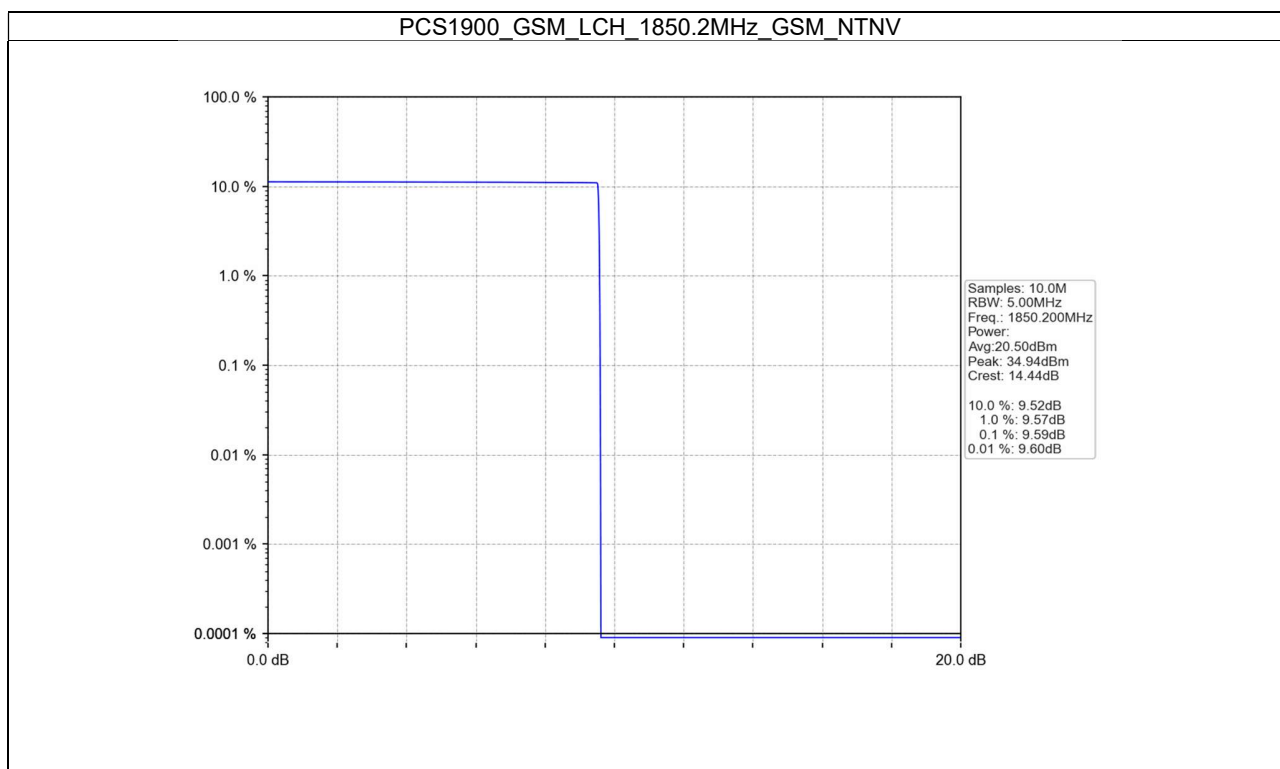
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## 5.1.2 Test Graph



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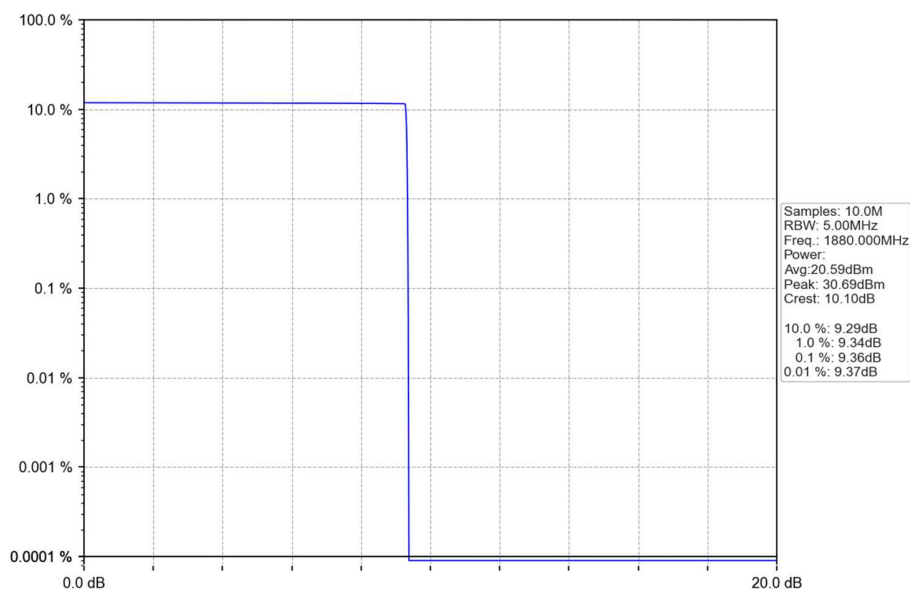
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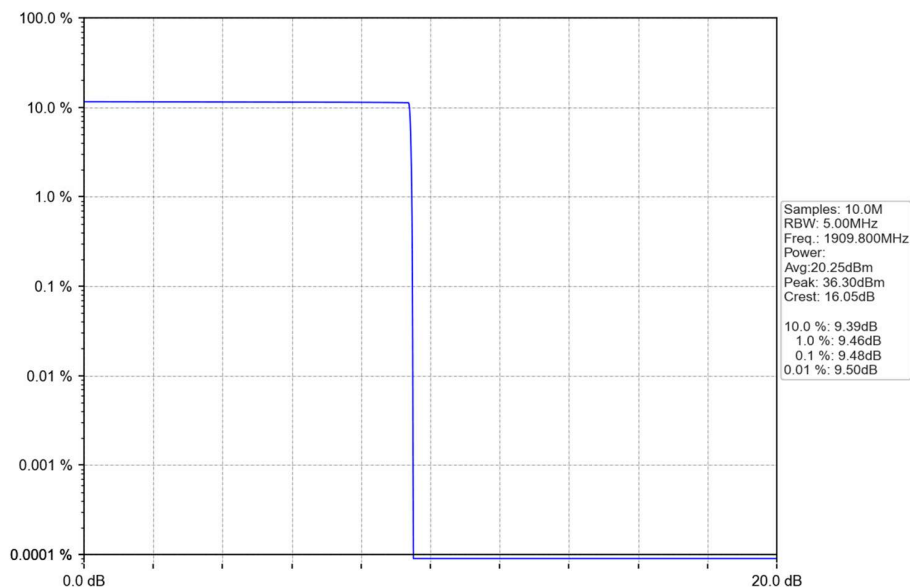
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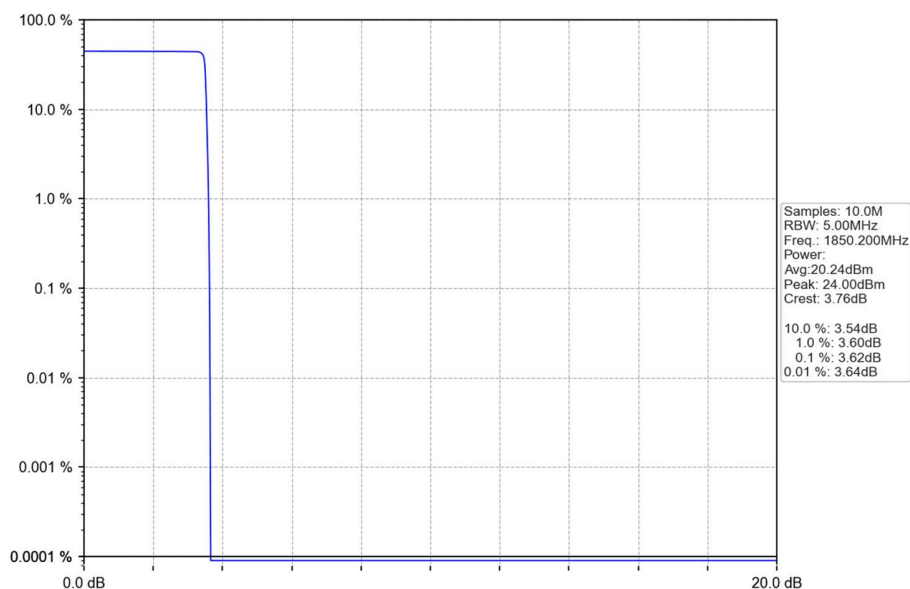
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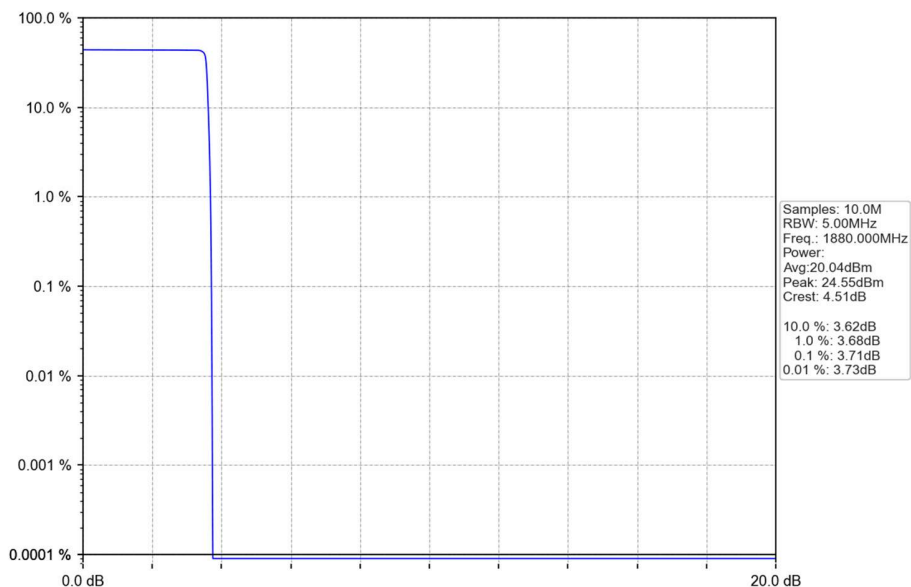
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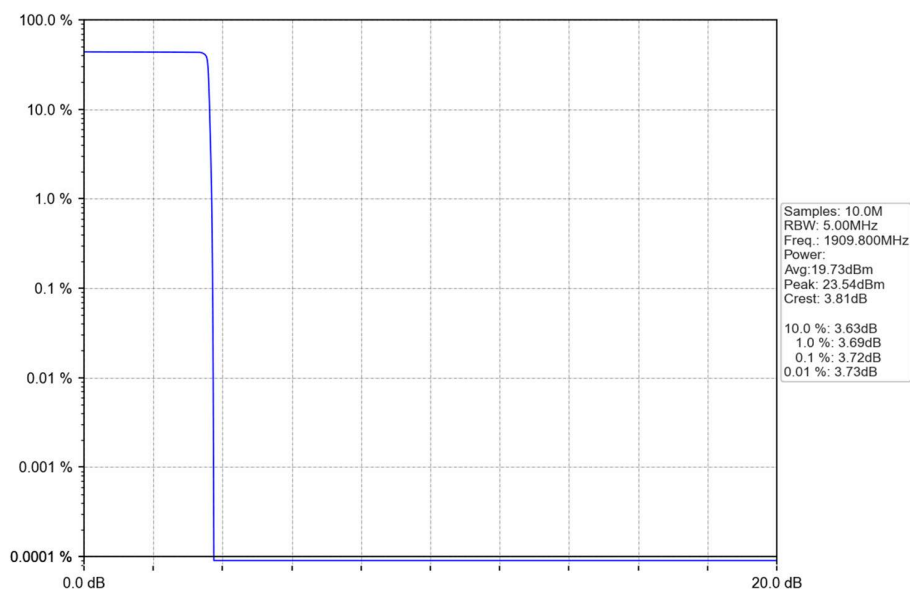
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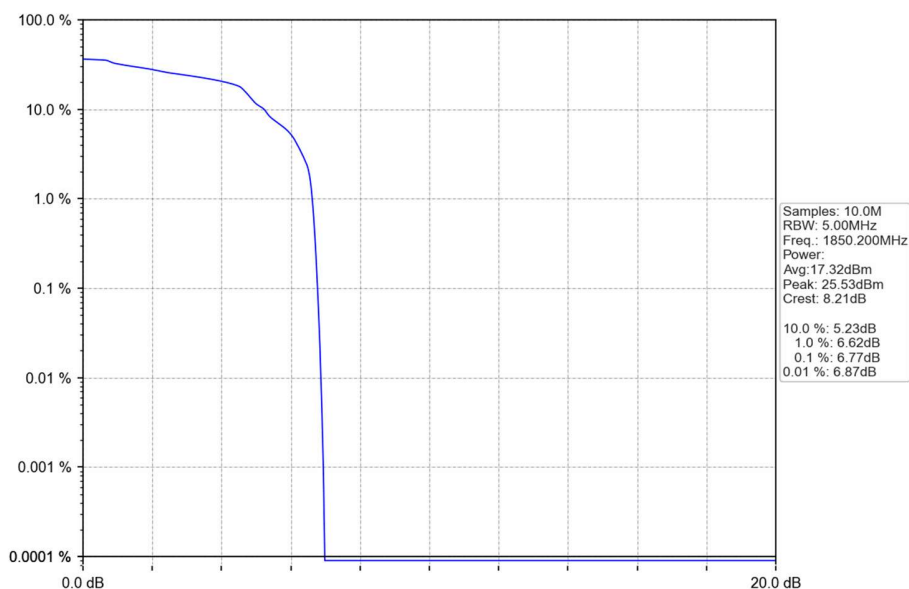
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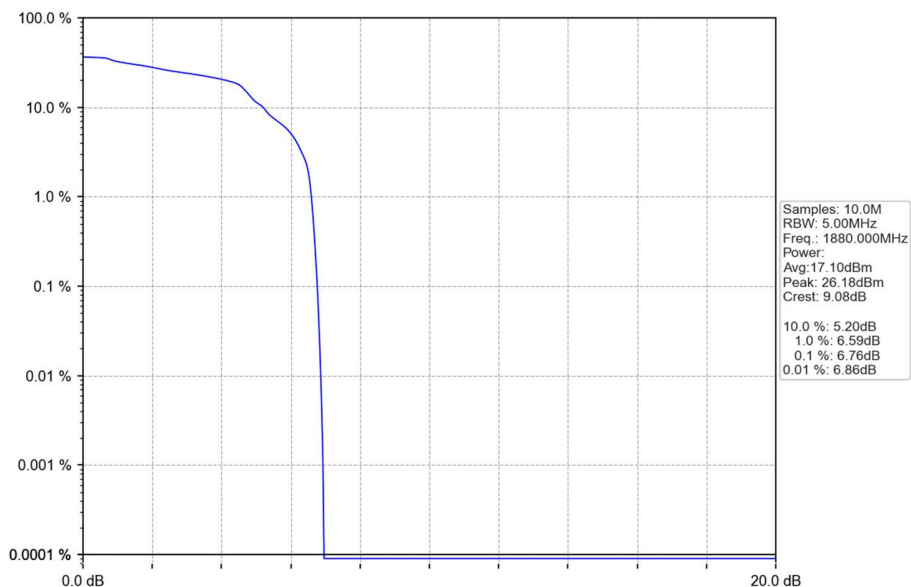
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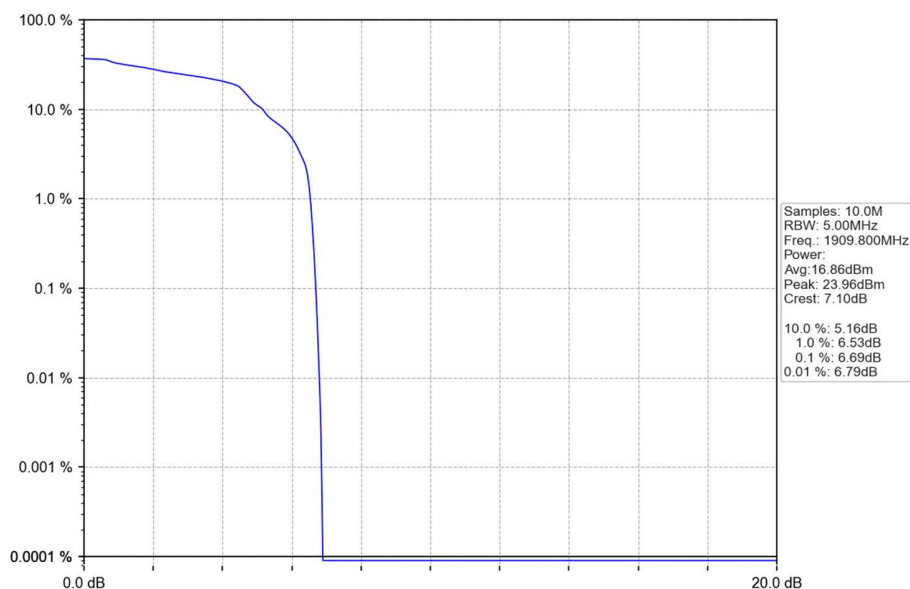
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## 6. Spurious Emission

### 6.1 PCS1900

#### 6.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1909.8	Refer To Test Graph	Pass	
	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1909.8	Refer To Test Graph	Pass	
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1909.8	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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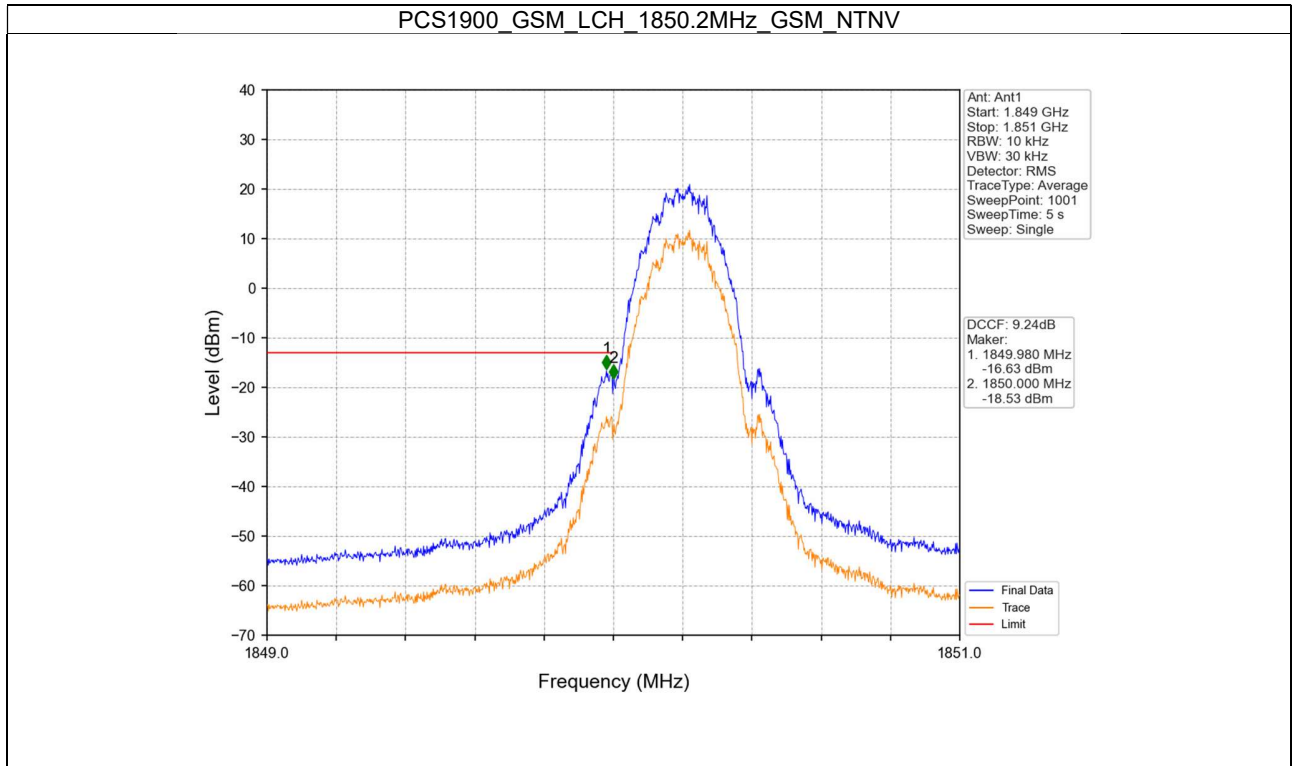
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## 6.1.2 Test Graph



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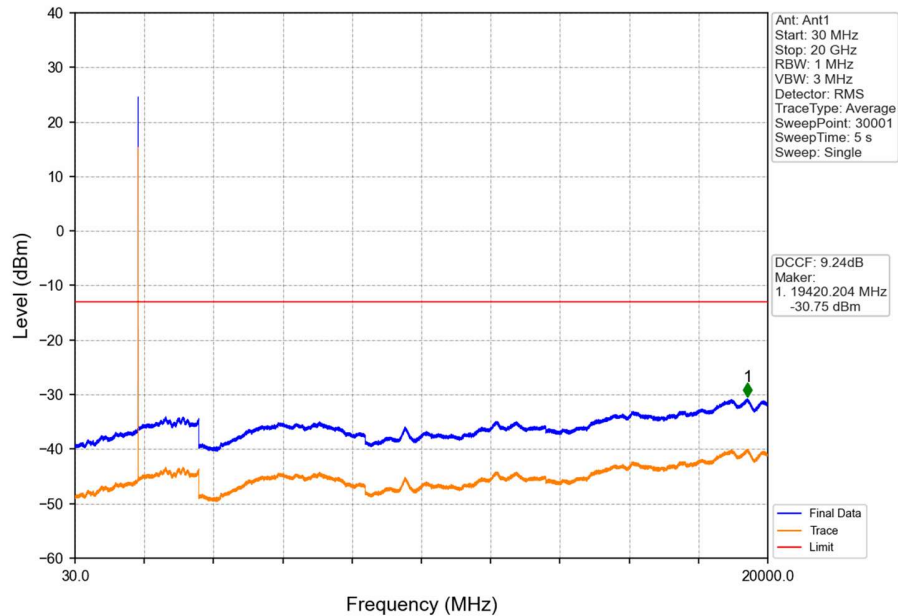
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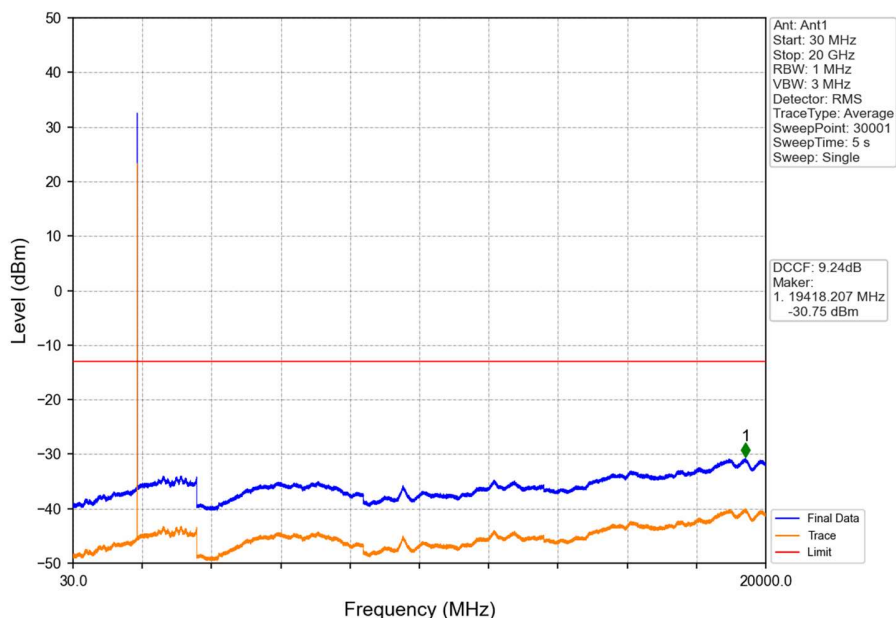
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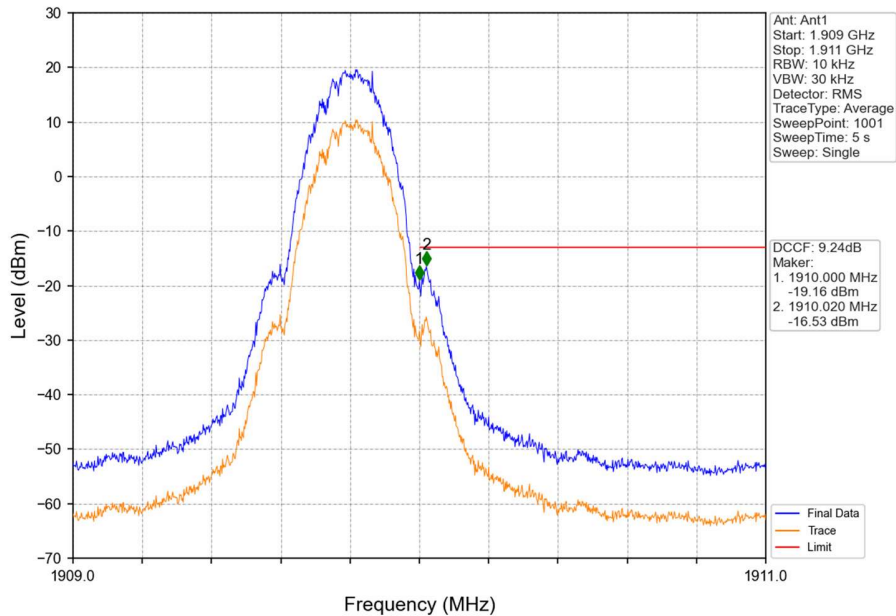
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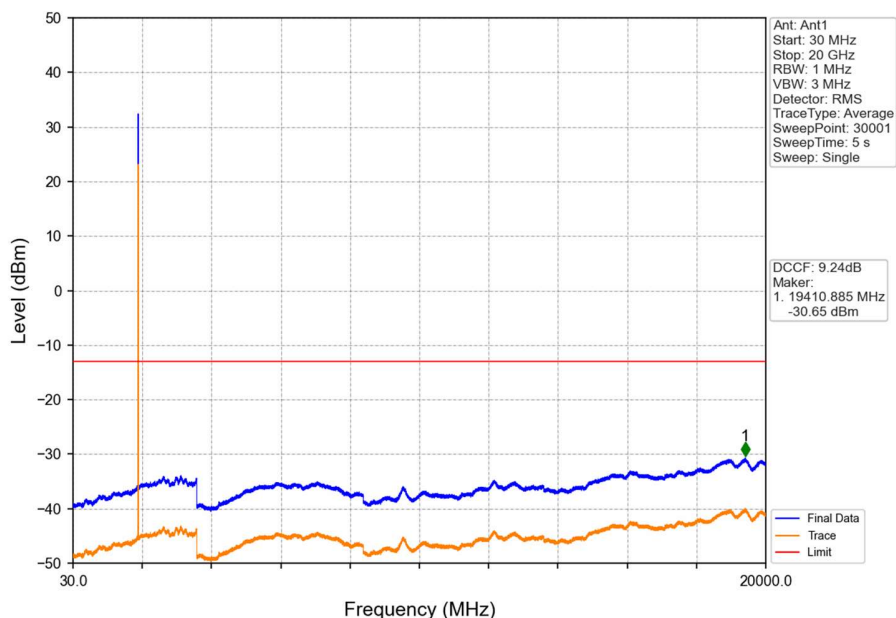
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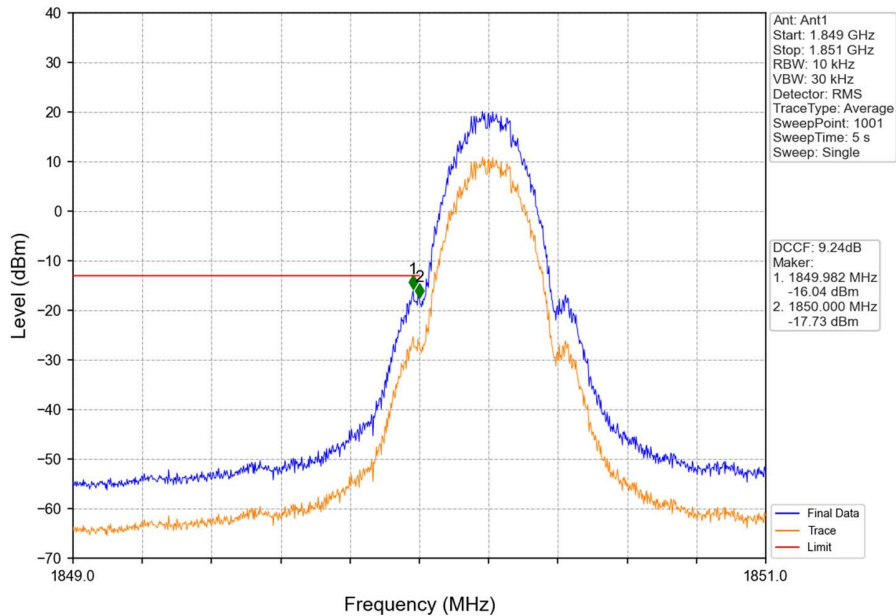
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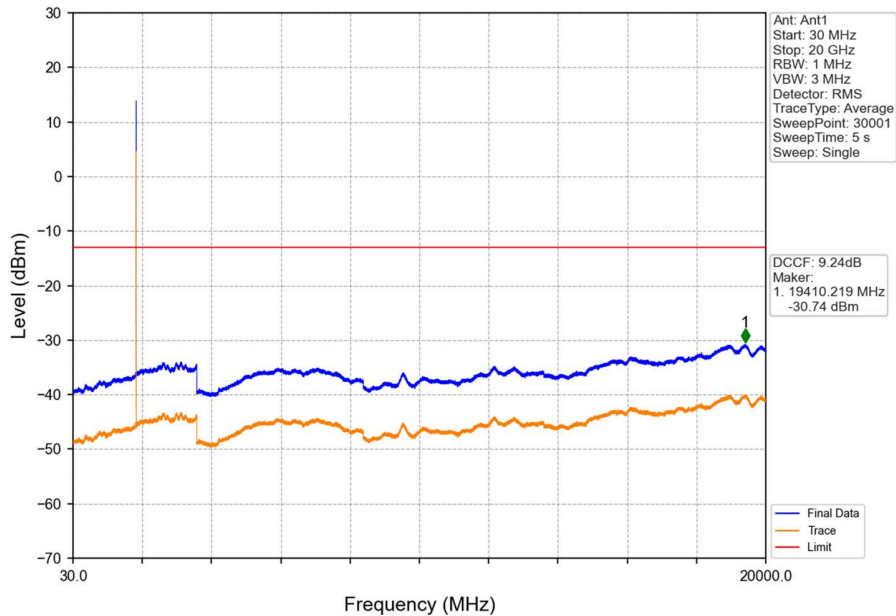
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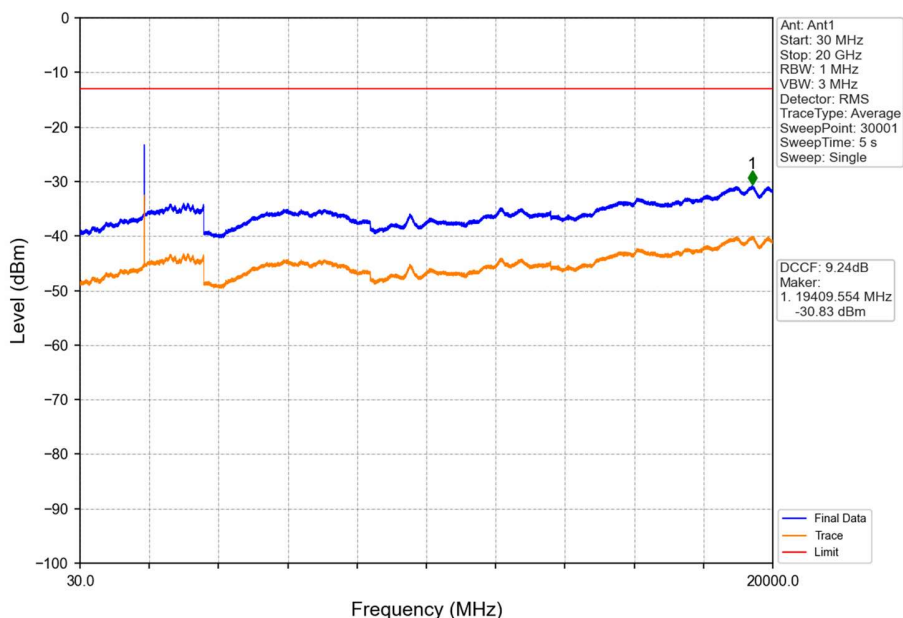
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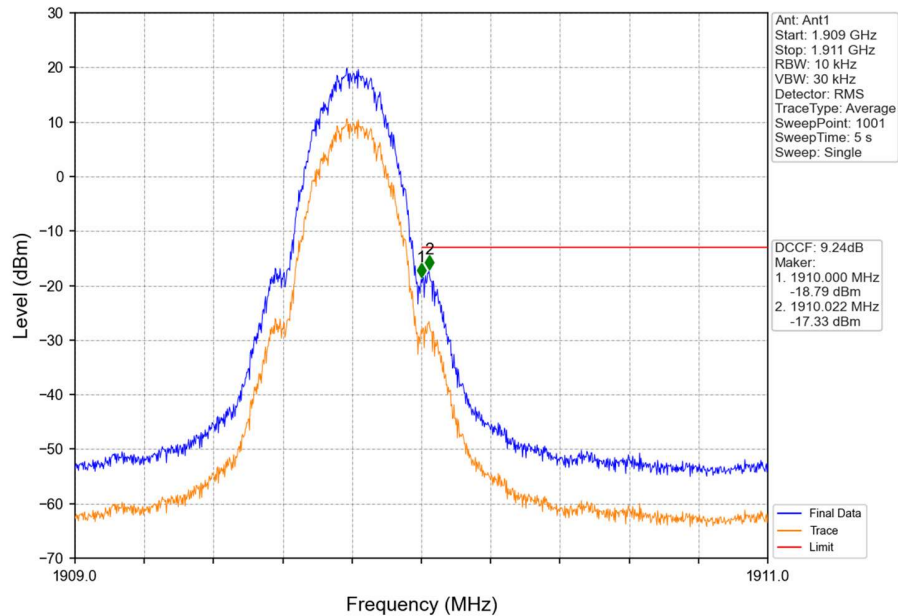
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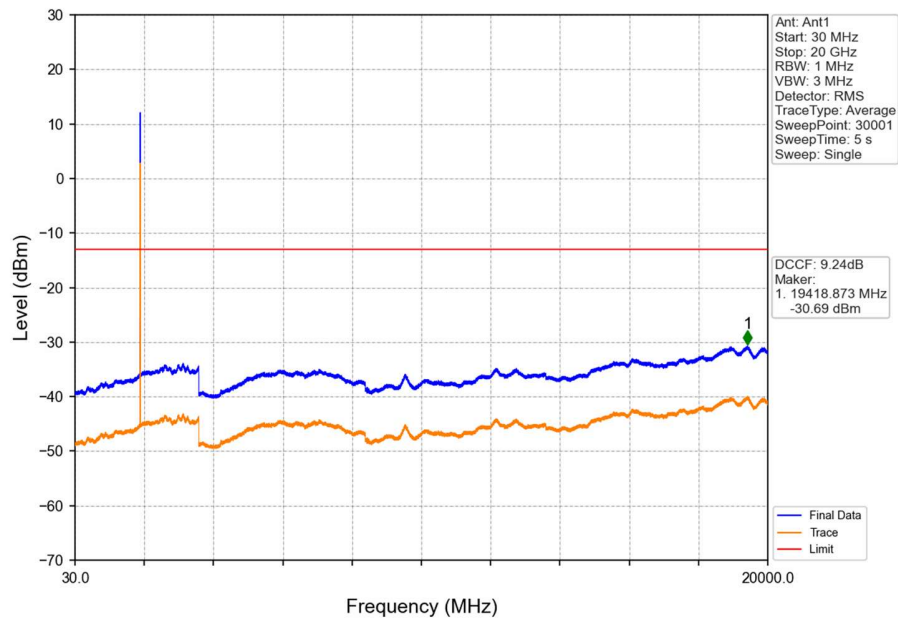
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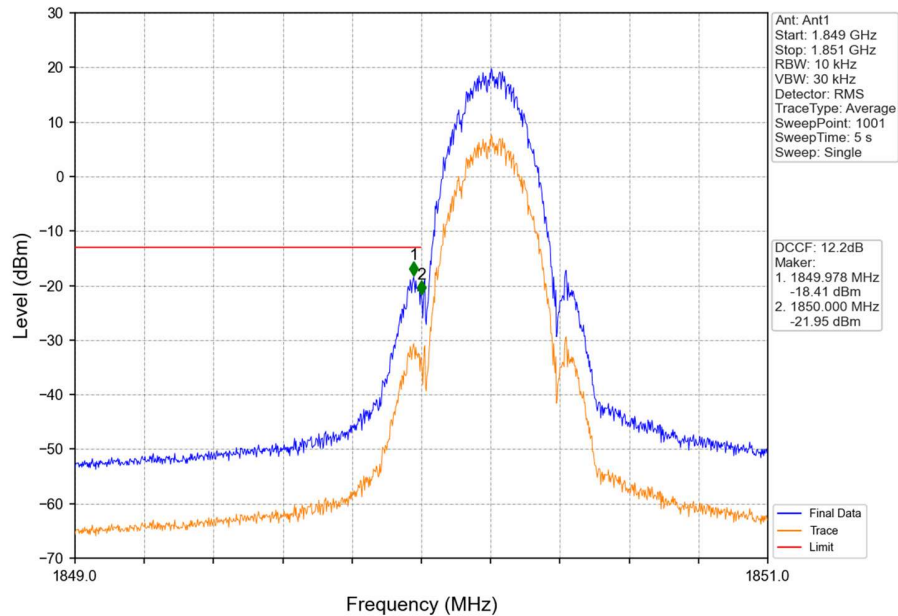
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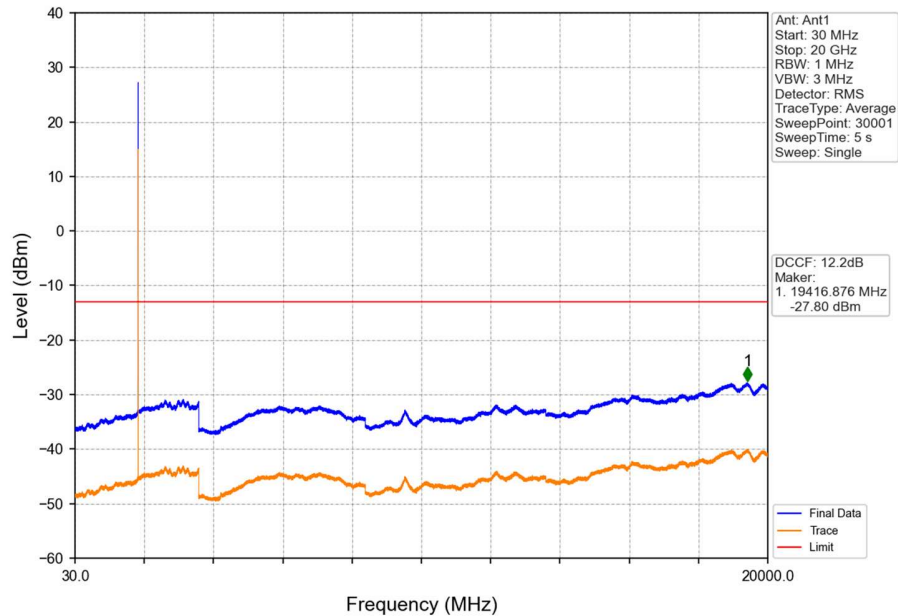
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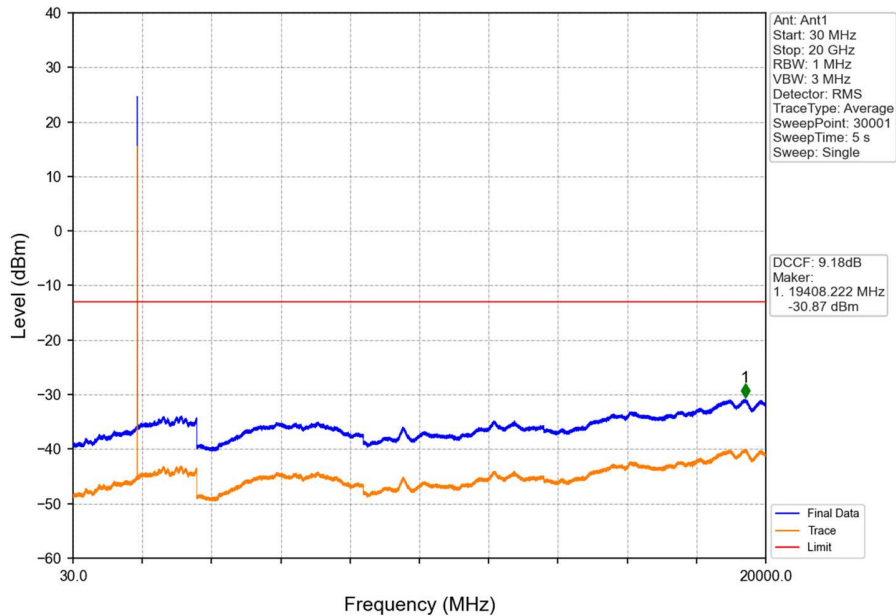
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## PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



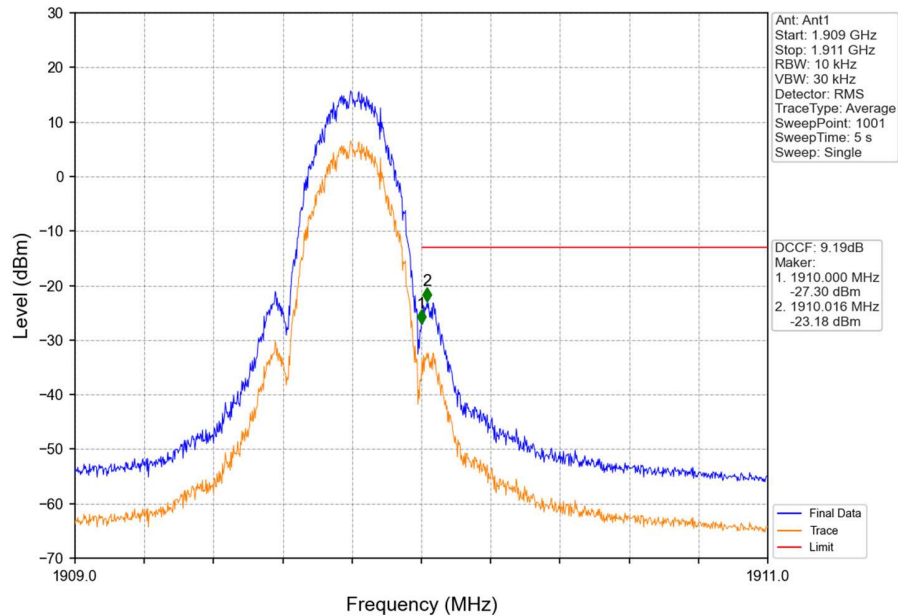
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## PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



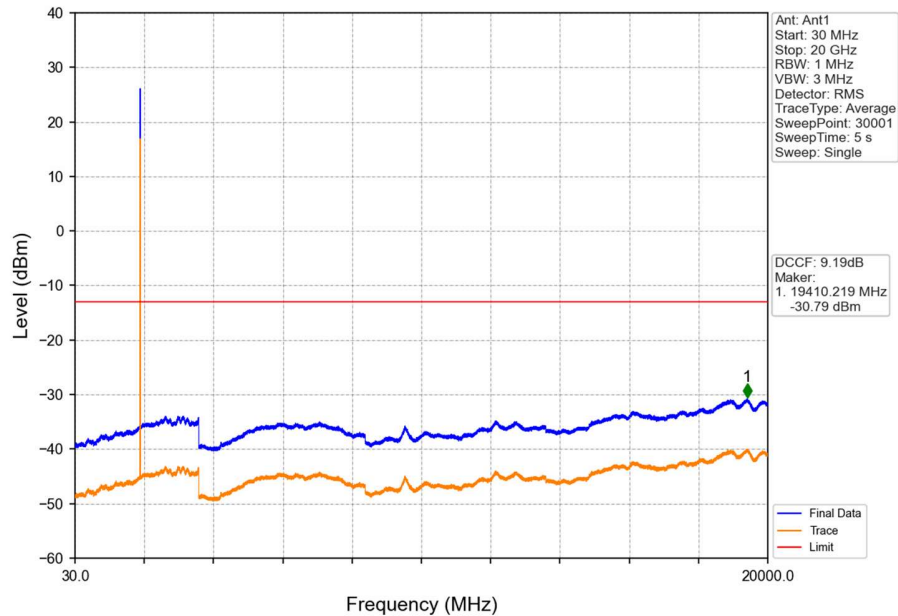
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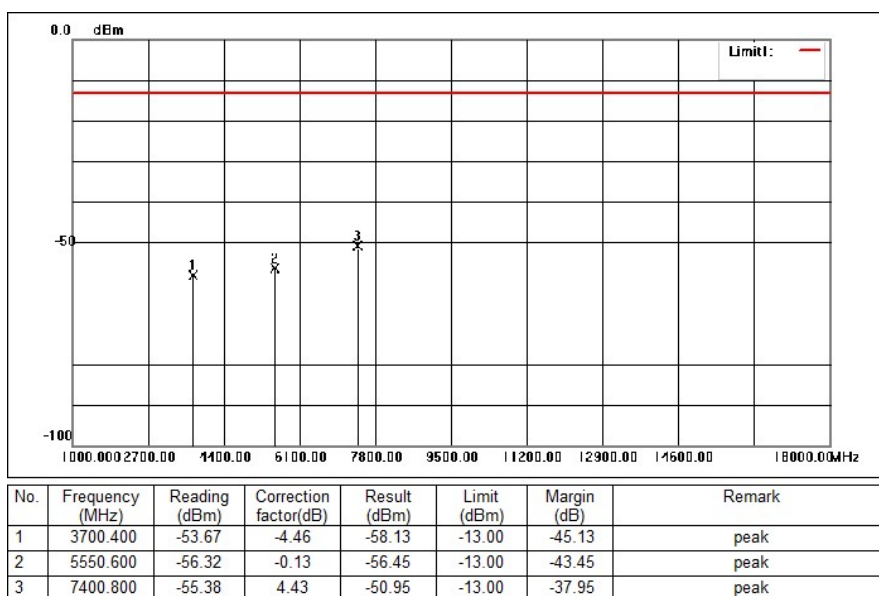


## 7. Field Strength of Spurious Radiation

Up Antenna

PCS 1900-Low channel

Polarization: H



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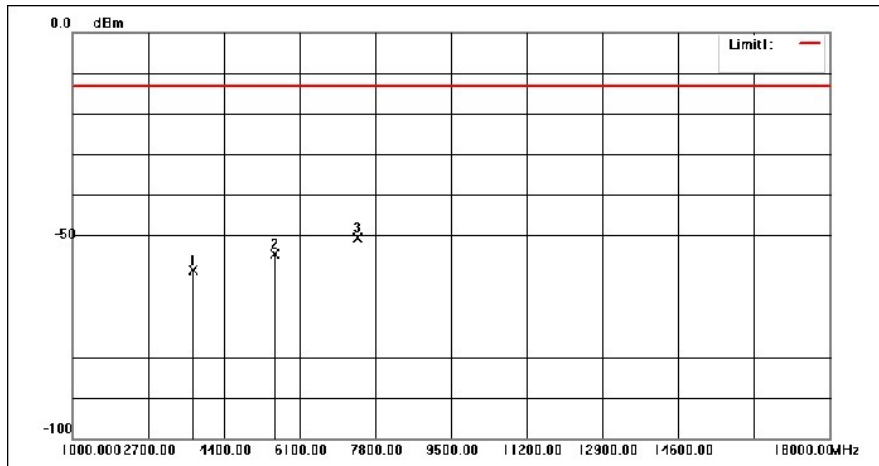
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Polarization: V



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1	3700.400	-54.14	-4.46	-58.60	-13.00	-45.60	peak
2	5550.600	-54.40	-0.13	-54.53	-13.00	-41.53	peak
3	7400.800	-55.13	4.43	-50.70	-13.00	-37.70	peak



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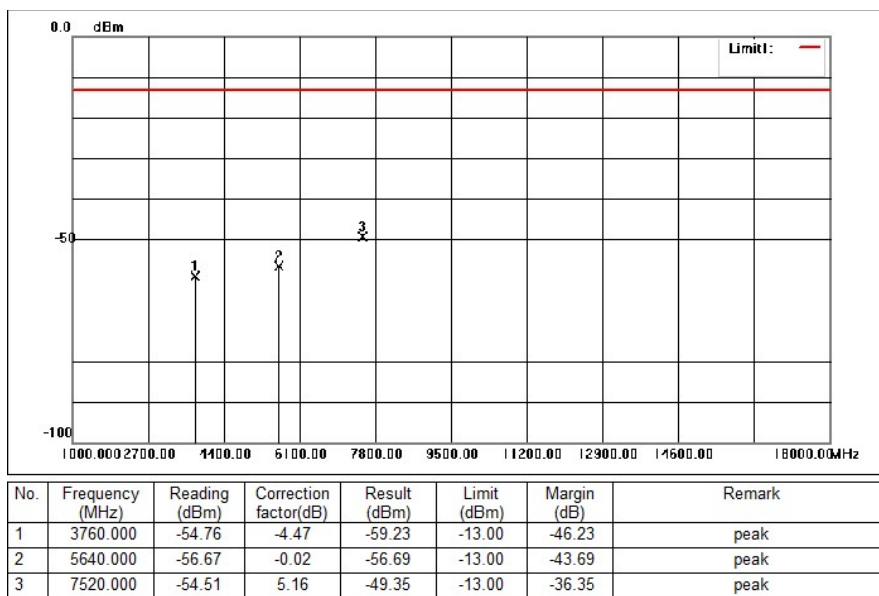
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PCS 1900-Middle channel

Polarization: H



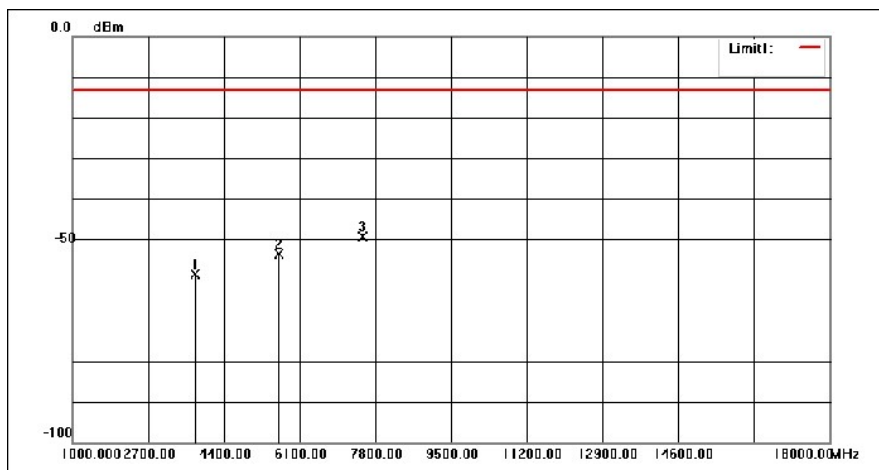
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-54.24	-4.47	-58.71	-13.00	-45.71	peak
2	5640.000	-53.56	-0.02	-53.58	-13.00	-40.58	peak
3	7520.000	-54.51	5.16	-49.35	-13.00	-36.35	peak



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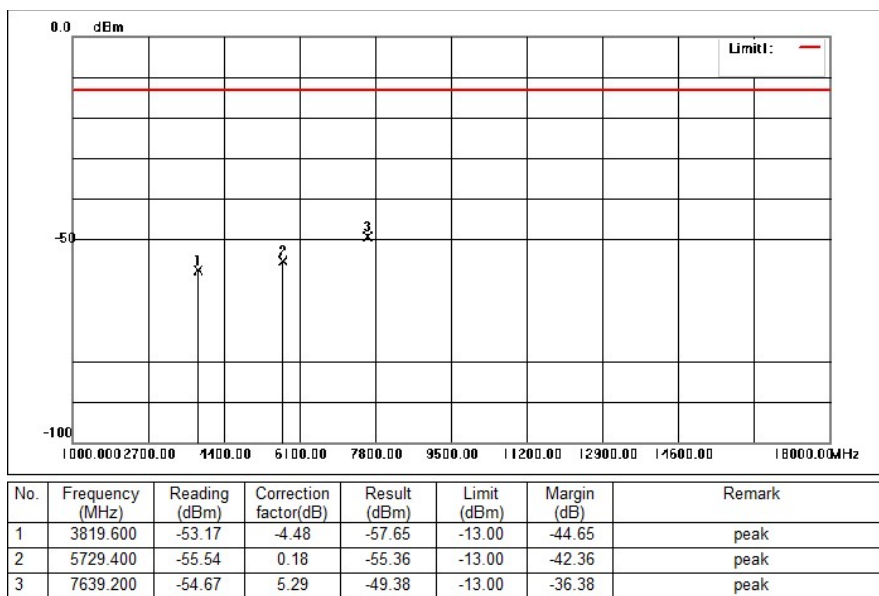
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## PCS 1900-High channel

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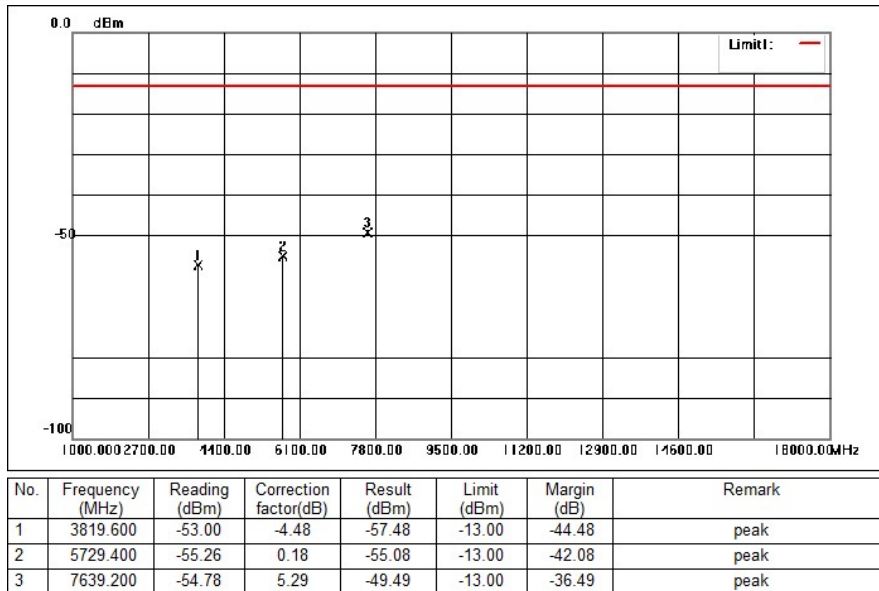
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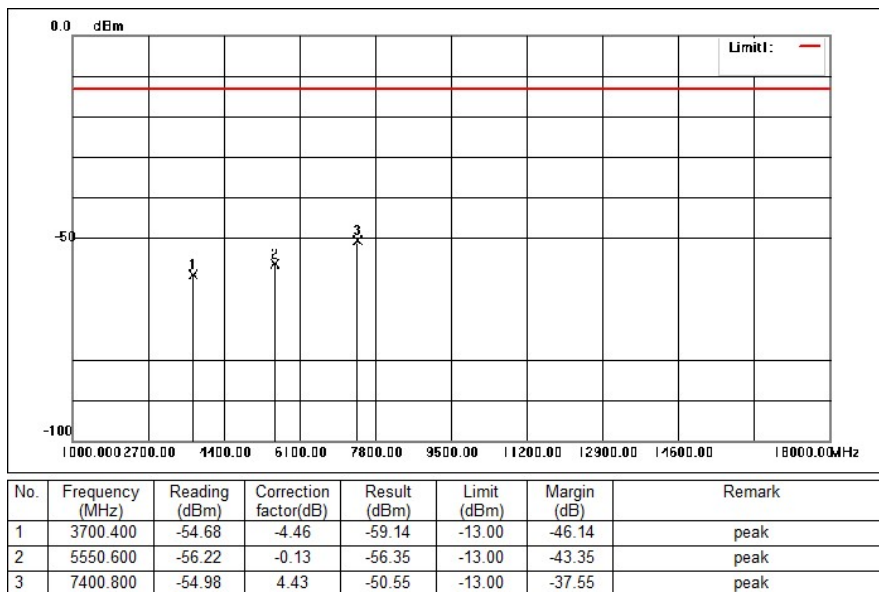




Down Antenna

PCS 1900-Low channel

Polarization: H



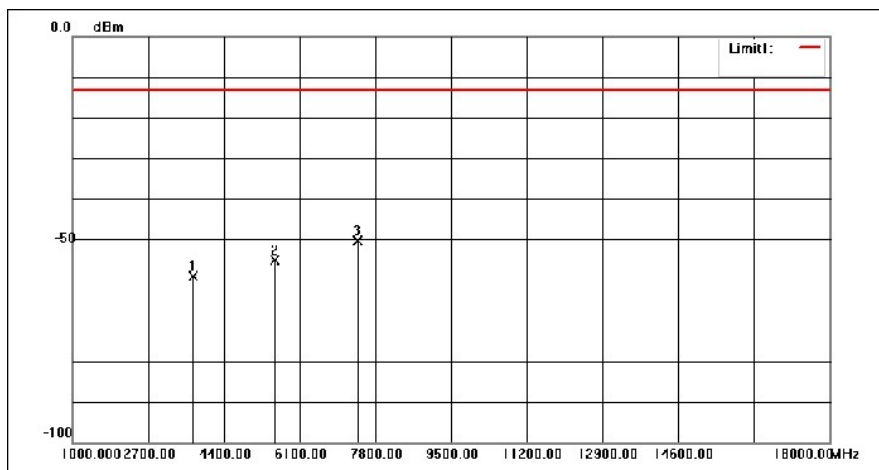
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1	3700.400	-54.64	-4.46	-59.10	-13.00	-46.10	peak
2	5550.600	-55.05	-0.13	-55.18	-13.00	-42.18	peak
3	7400.800	-54.68	4.43	-50.25	-13.00	-37.25	peak



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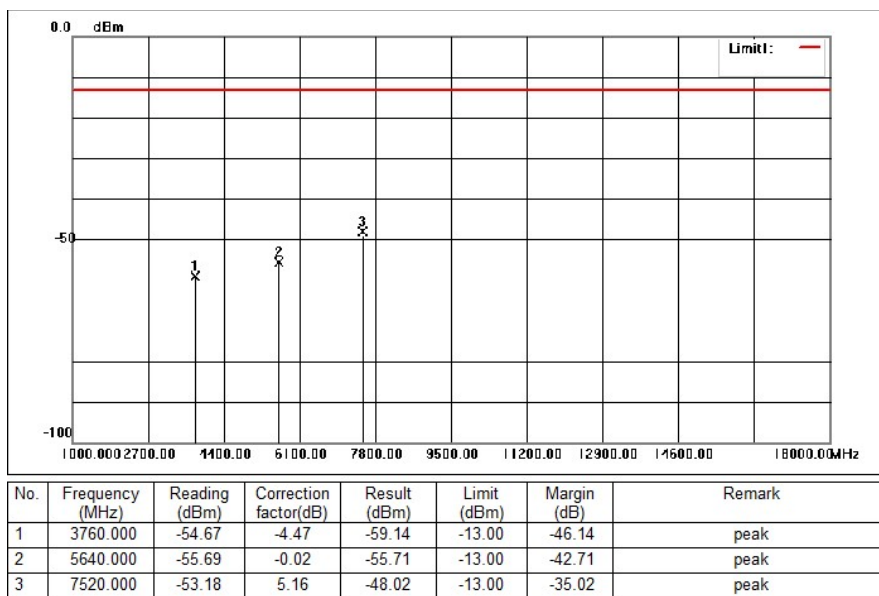
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PCS 1900-Middle channel

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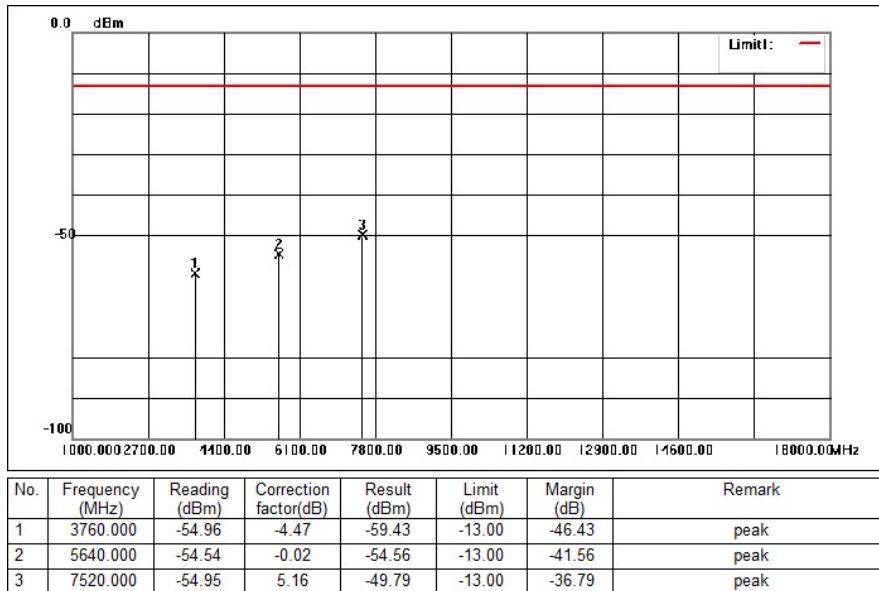
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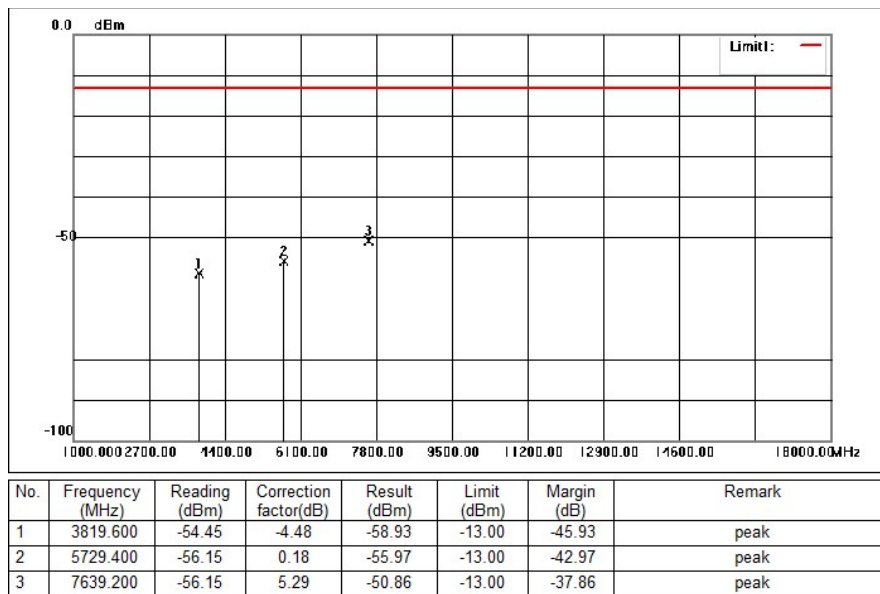
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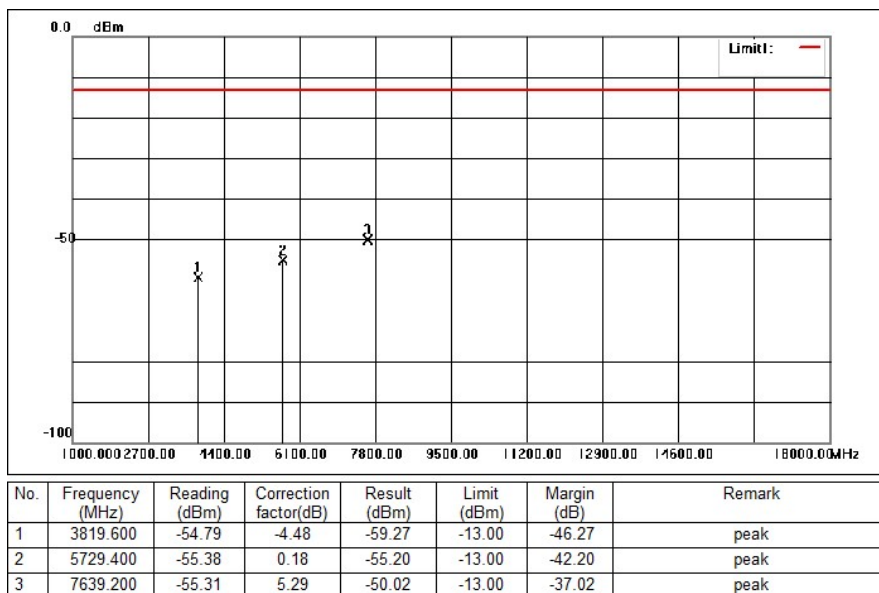
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Polarization: V



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.



Compliance Certification Services (Kunshan) Inc.  
EMC Laboratory

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