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Appendix B.2

GSM 1900



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Effective (Isotropic) Radiated Power Output Data

PCS1900_EIRP Ant1

Test Result

Band: PCS1900								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	1850.2	27.22	0.90	28.12	<=33.00	Pass
			1880	27.24	0.90	28.14	<=33.00	Pass
			1909.8	27.29	0.90	28.19	<=33.00	Pass
	EGPRS	1 TX Slot	1850.2	22.87	0.90	23.77	<=33.00	Pass
		2 TX Slots	1850.2	22.54	0.90	23.44	<=33.00	Pass
		3 TX Slots	1850.2	20.36	0.90	21.26	<=33.00	Pass
		4 TX Slots	1850.2	19.87	0.90	20.77	<=33.00	Pass
		1 TX Slot	1880	22.57	0.90	23.47	<=33.00	Pass
		2 TX Slots	1880	22.40	0.90	23.3	<=33.00	Pass
		3 TX Slots	1880	20.62	0.90	21.52	<=33.00	Pass
		4 TX Slots	1880	19.88	0.90	20.78	<=33.00	Pass
		1 TX Slot	1909.8	22.88	0.90	23.78	<=33.00	Pass
		2 TX Slots	1909.8	22.43	0.90	23.33	<=33.00	Pass
		3 TX Slots	1909.8	20.51	0.90	21.41	<=33.00	Pass
		4 TX Slots	1909.8	19.97	0.90	20.87	<=33.00	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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Peak-Average Ratio PCS1900

Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.75	<=13	Pass
			1880	9.77	<=13	Pass
			1909.8	9.65	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.74	<=13	Pass
			1880	7.40	<=13	Pass
			1909.8	7.93	<=13	Pass



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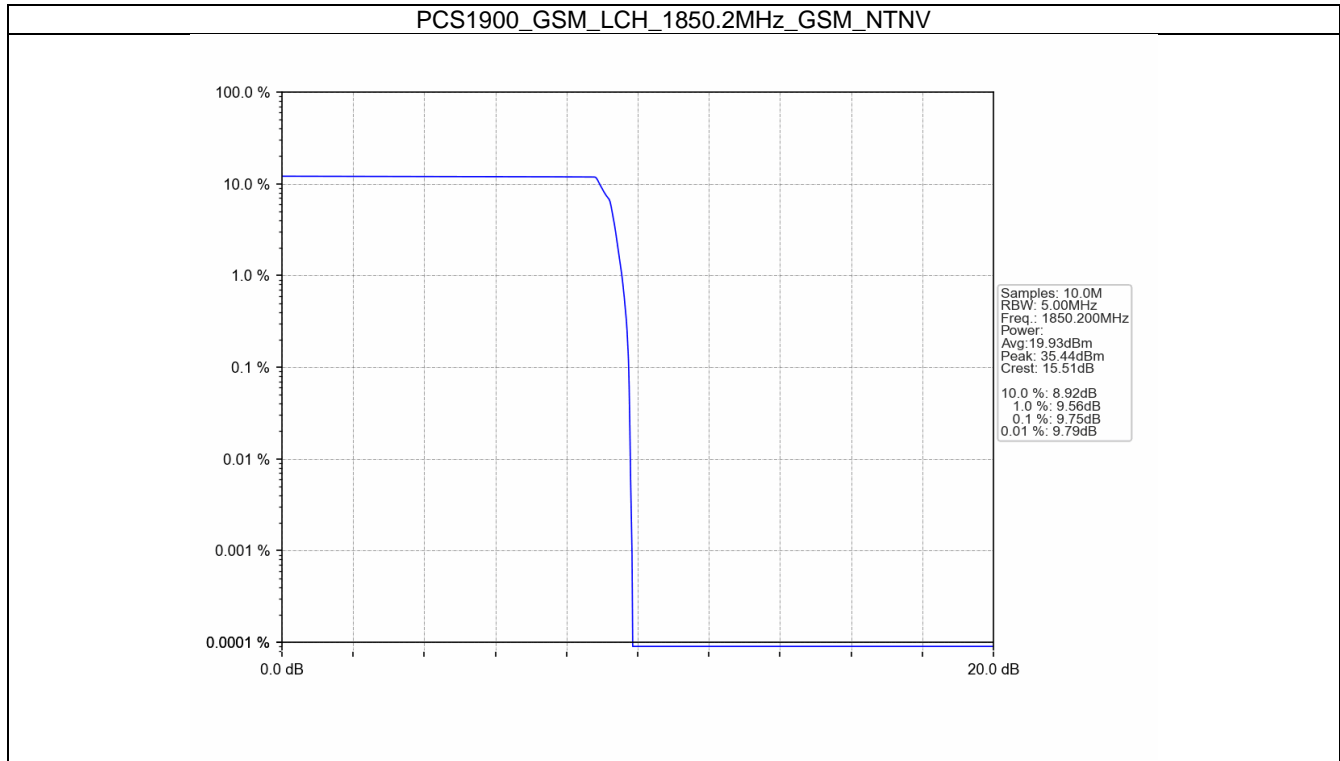
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Test Graph



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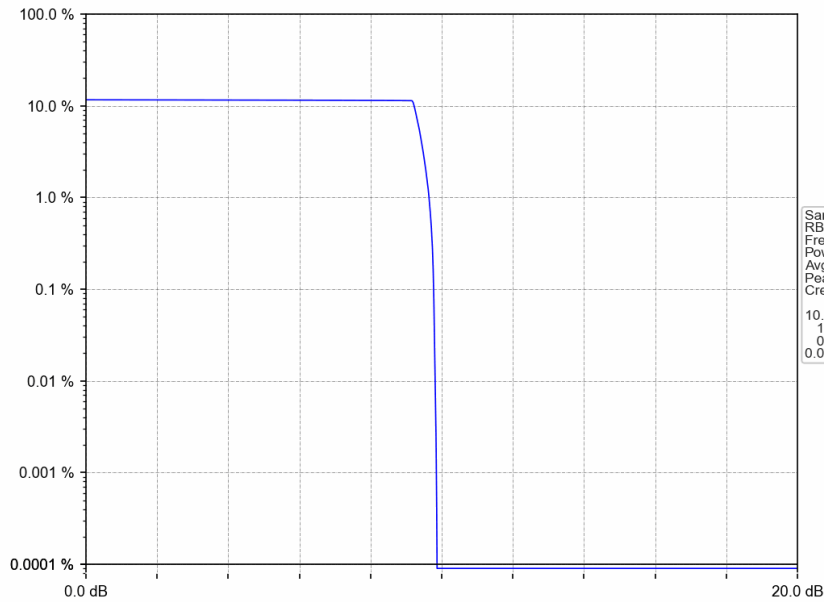


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PCS1900_GSM_MCH_1880MHz_GSM_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1880.000MHz
 Power:
 Avg:20.32dBm
 Peak: 30.72dBm
 Crest: 10.40dB

10.0 %: 9.22dB
 1.0 %: 9.64dB
 0.1 %: 9.77dB
 0.01 %: 9.82dB



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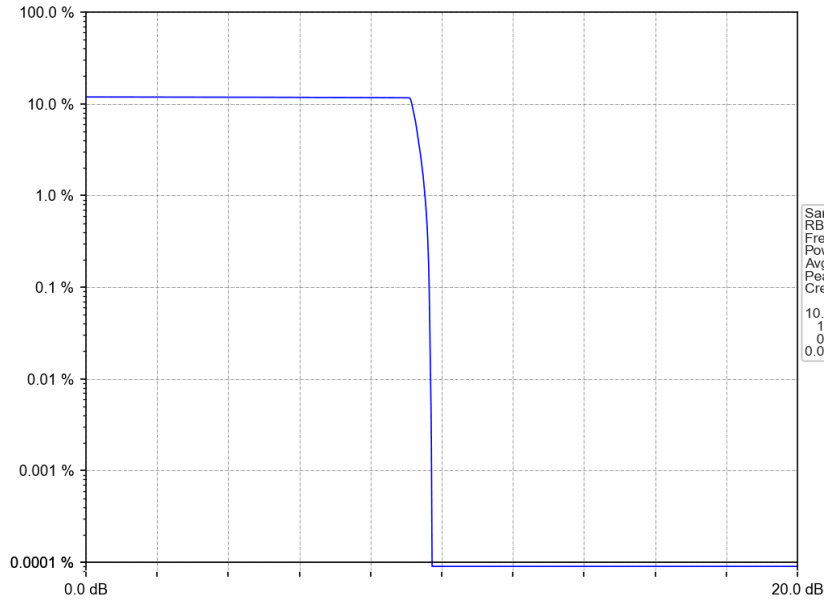


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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1909.800MHz
 Power:
 Avg: 20.59dBm
 Peak: 34.43dBm
 Crest: 13.84dB

10.0 %: 9.16dB
 1.0 %: 9.53dB
 0.1 %: 9.65dB
 0.01 %: 9.69dB



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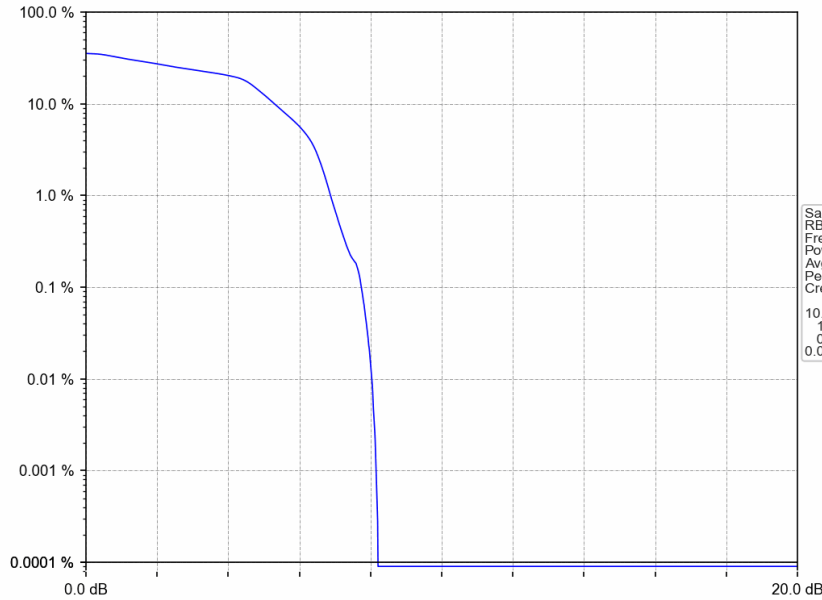


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PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1850.200MHz
 Power:
 Avg: 14.98dBm
 Peak: 23.25dBm
 Crest: 8.27dB

10.0 %: 5.30dB
 1.0 %: 6.87dB
 0.1 %: 7.74dB
 0.01 %: 8.04dB



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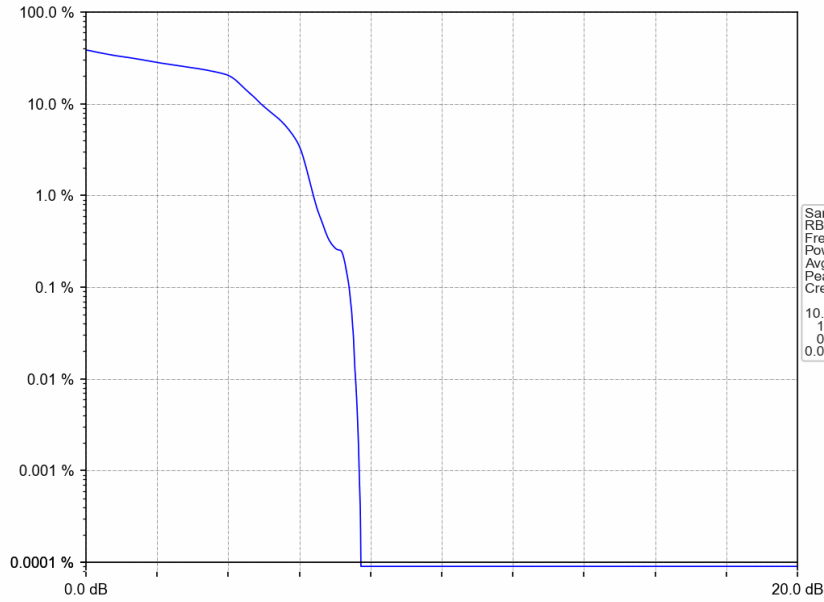


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PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1880.000MHz
 Power:
 Avg: 15.58dBm
 Peak: 23.54dBm
 Crest: 7.96dB

10.0 %: 4.92dB
 1.0 %: 6.39dB
 0.1 %: 7.40dB
 0.01 %: 7.58dB



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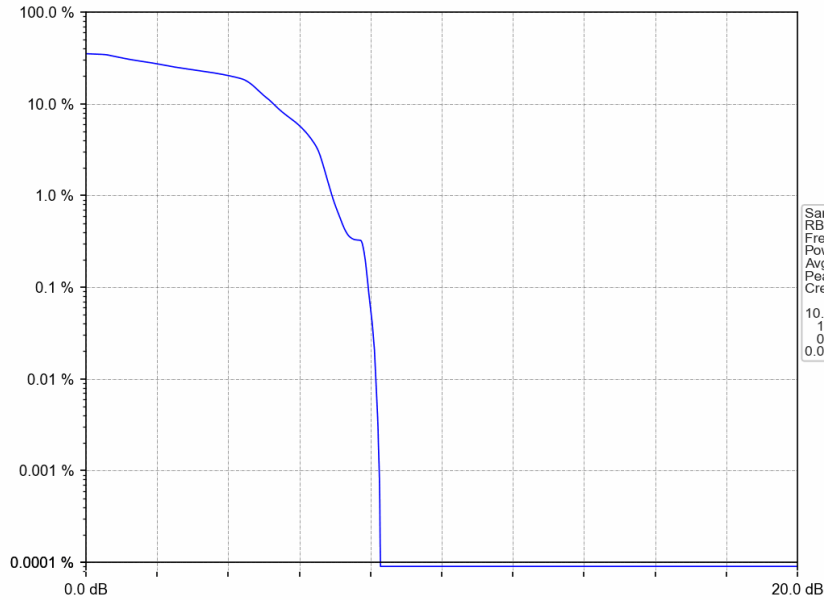


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PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



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99% & 26dB Bandwidth

PCS1900_OBW

Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.245	/	Pass
			1880	0.247	/	Pass
			1909.8	0.245	/	Pass
	EGPRS	1 TX Slot	1850.2	0.247	/	Pass
			1880	0.237	/	Pass
			1909.8	0.242	/	Pass



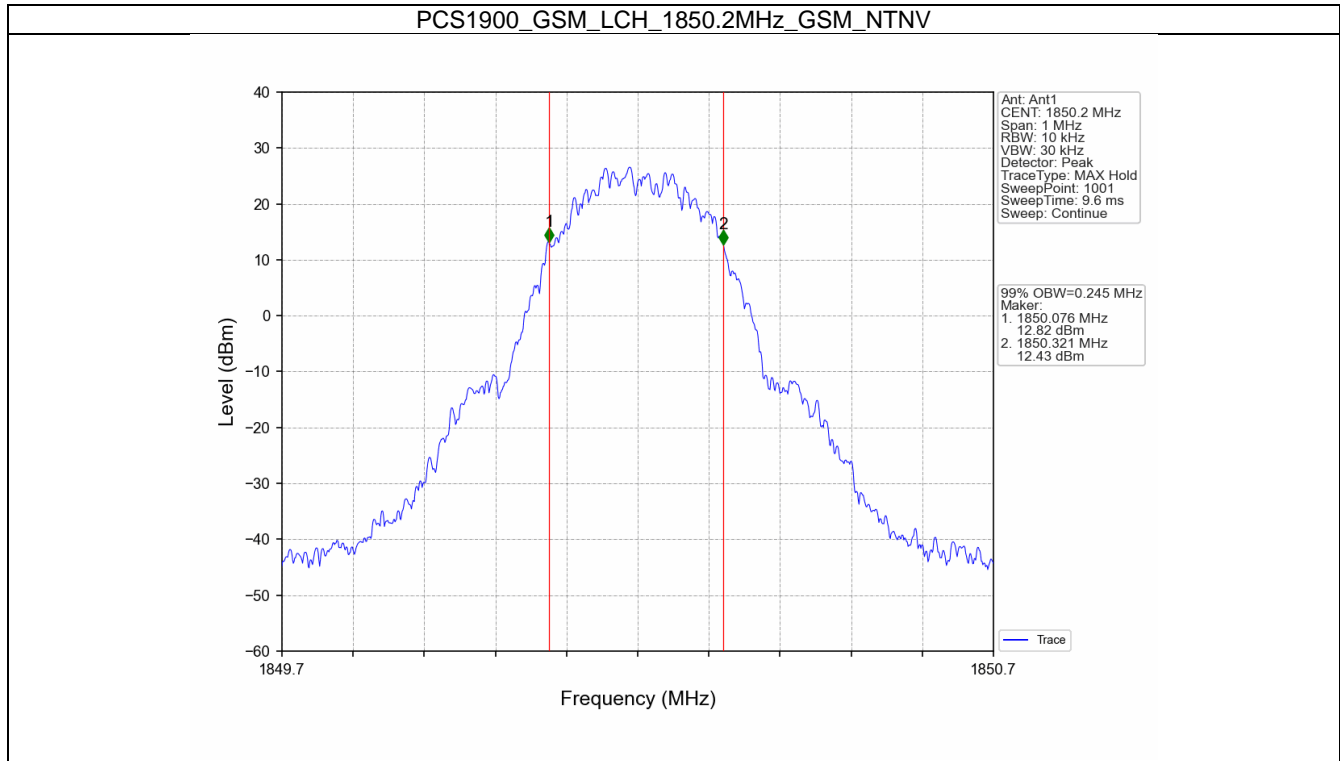
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Test Graph



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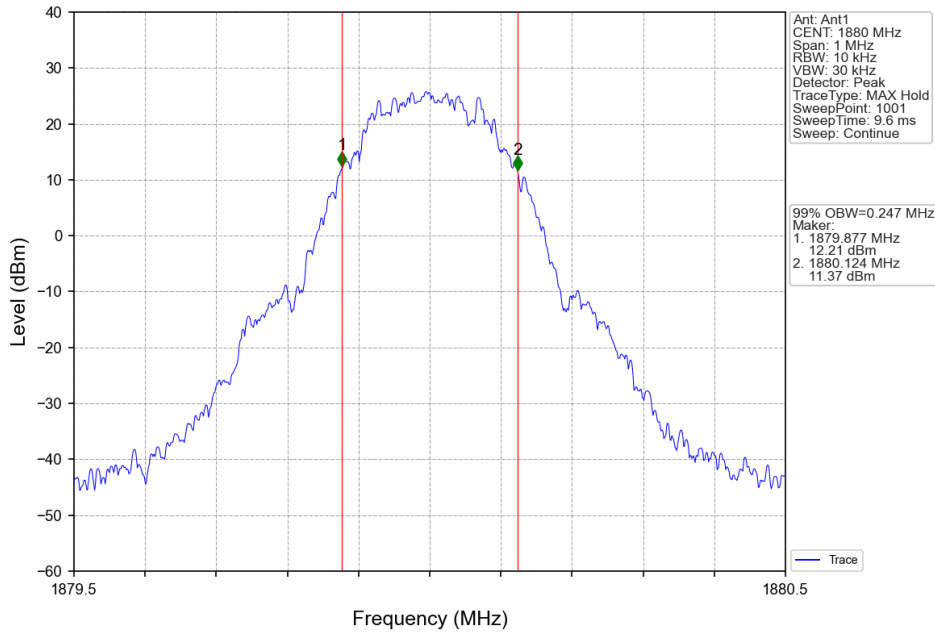
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PCS1900_GSM_MCH_1880MHz_GSM_NTNV



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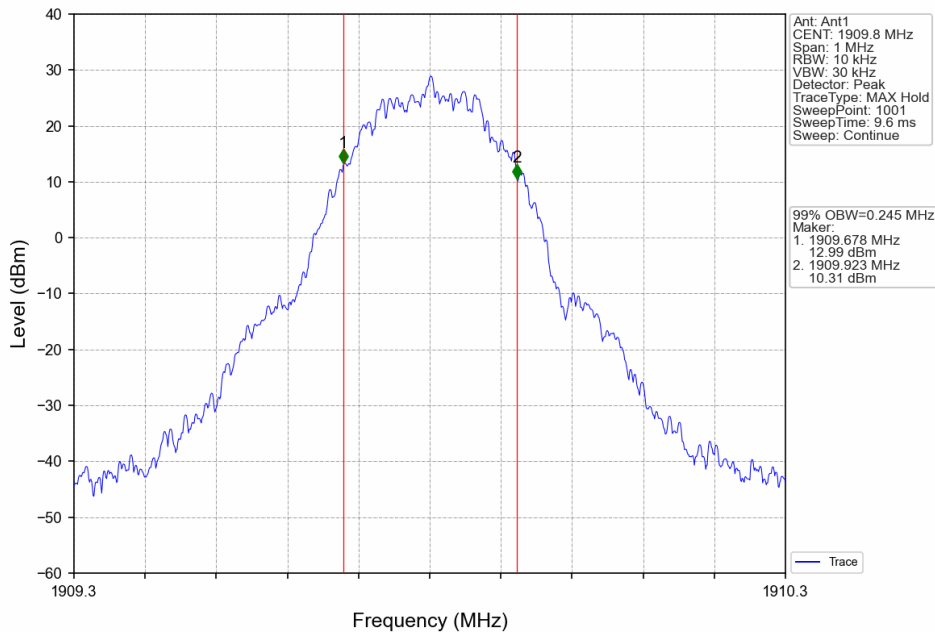
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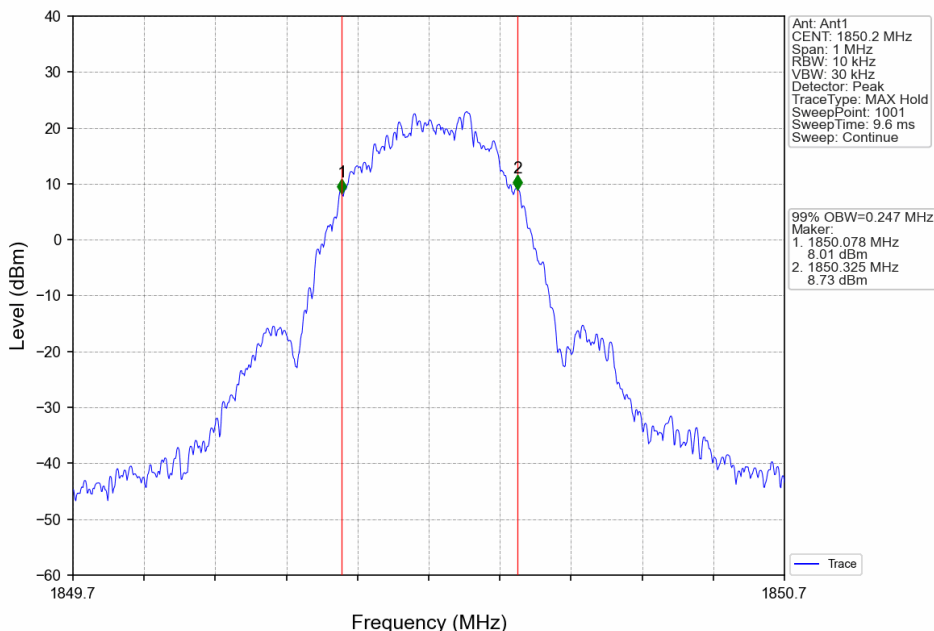
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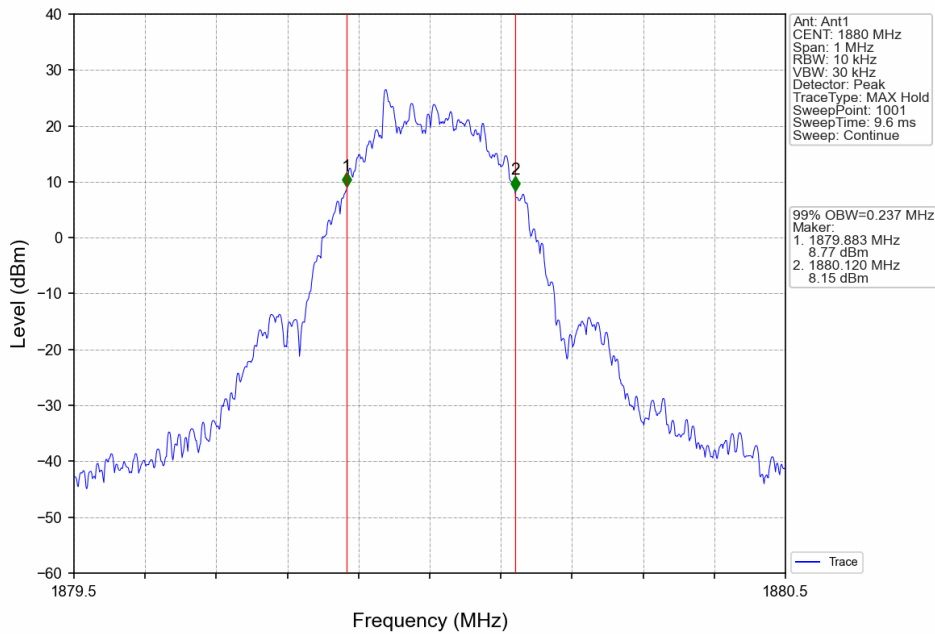
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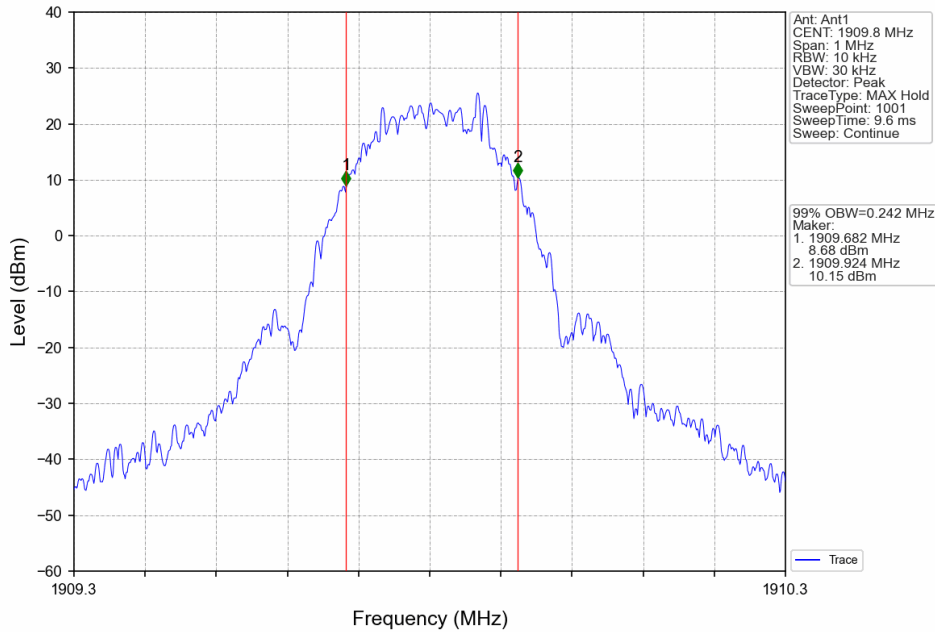
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PCS1900_XDB

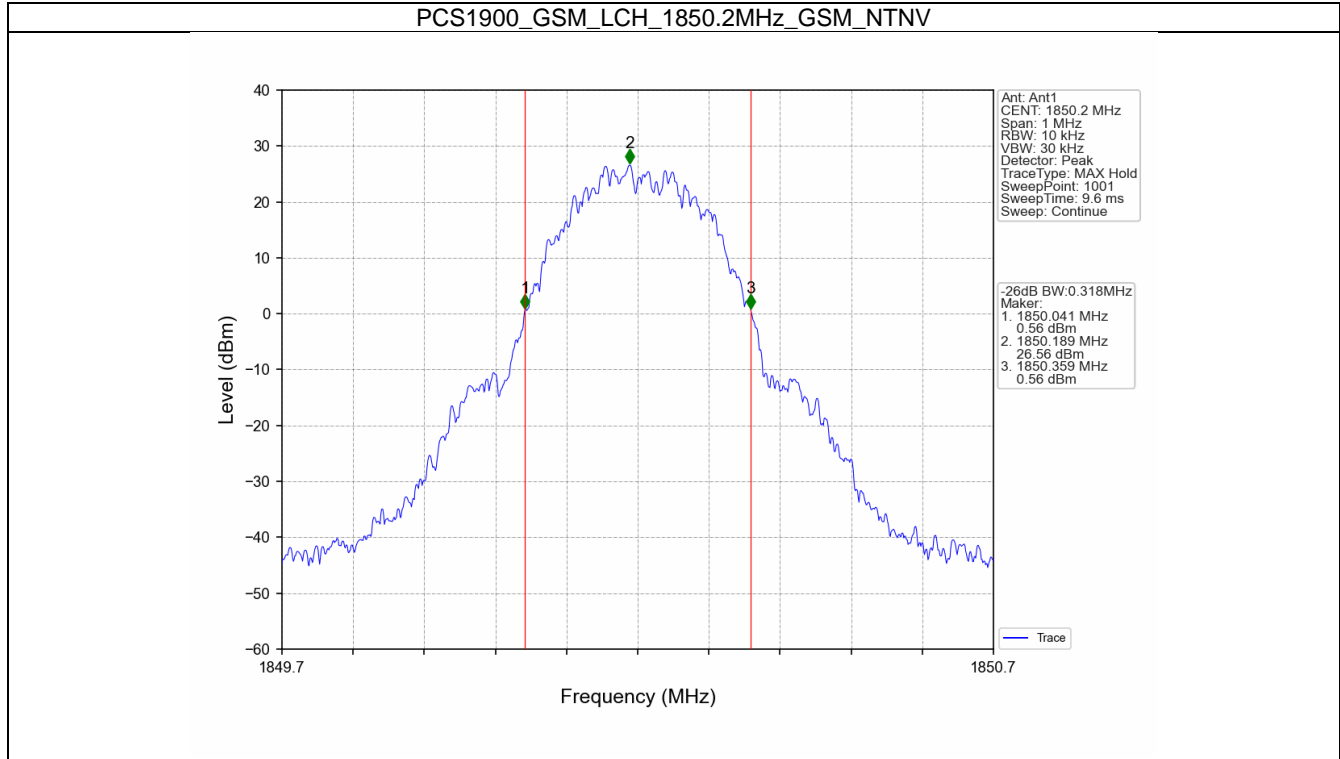
Test Result

Table with columns: ENV, Mode (Network, Subset), Frequency (MHz), 26dB Bandwidth (MHz) (Result, Limit), and Verdict. Data rows show GSM and EGPRS modes with various frequencies and bandwidth results, all marked as 'Pass'.



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Test Graph



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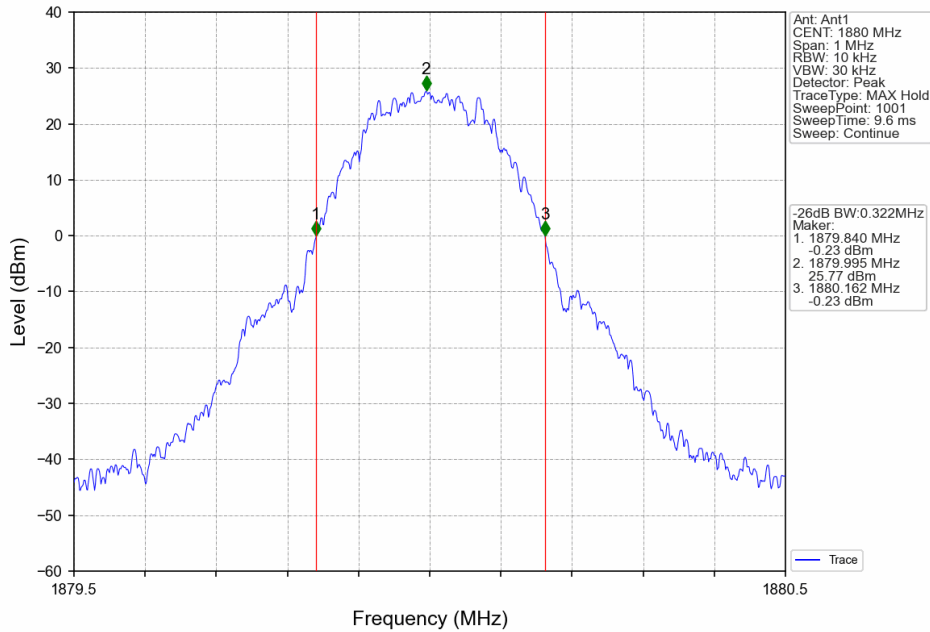


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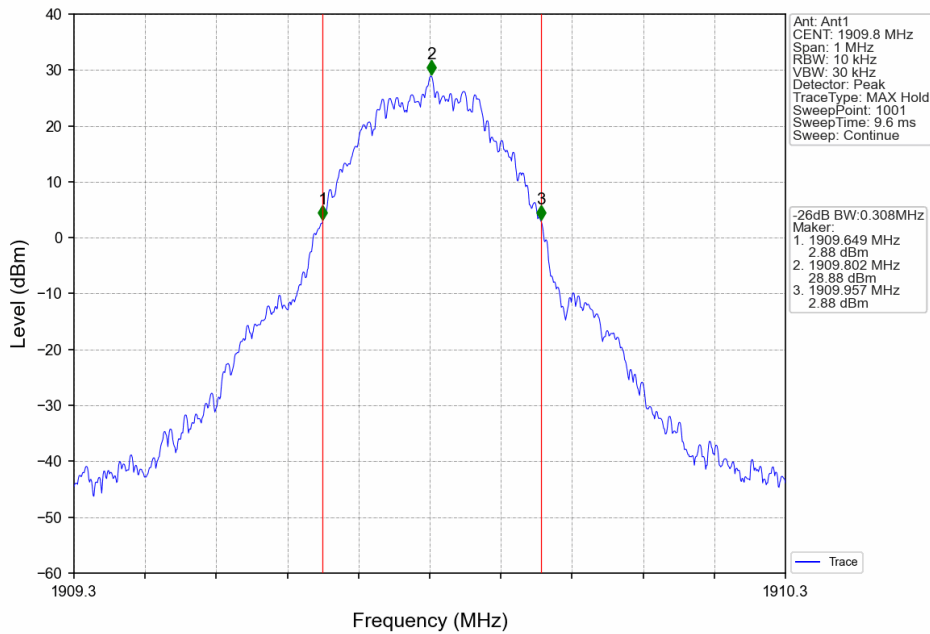


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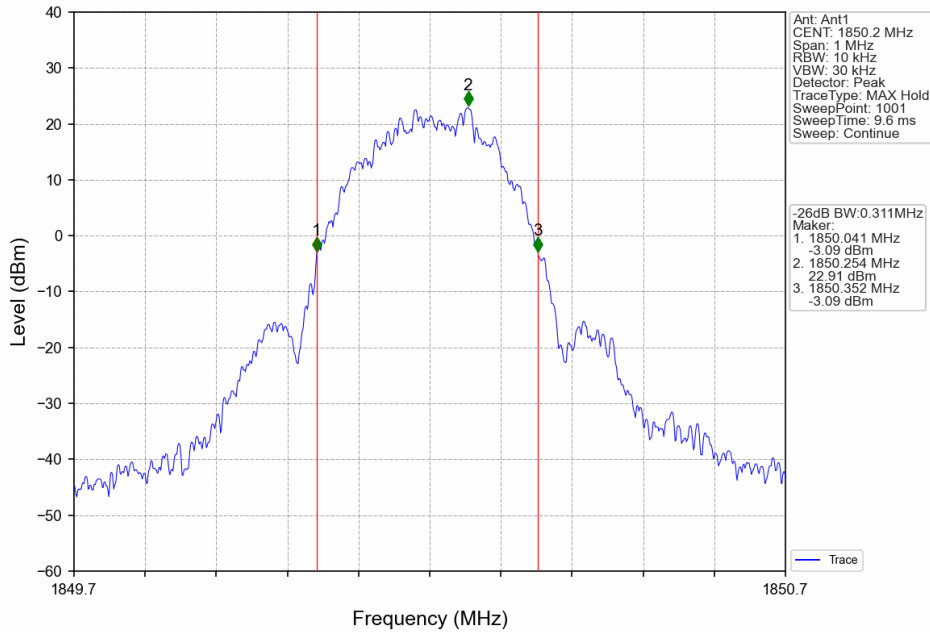
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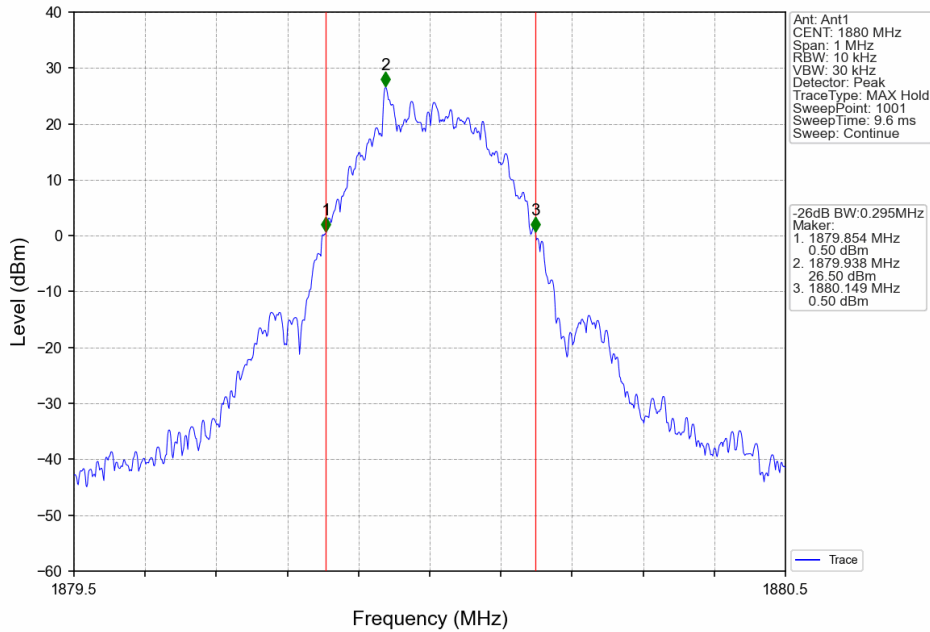
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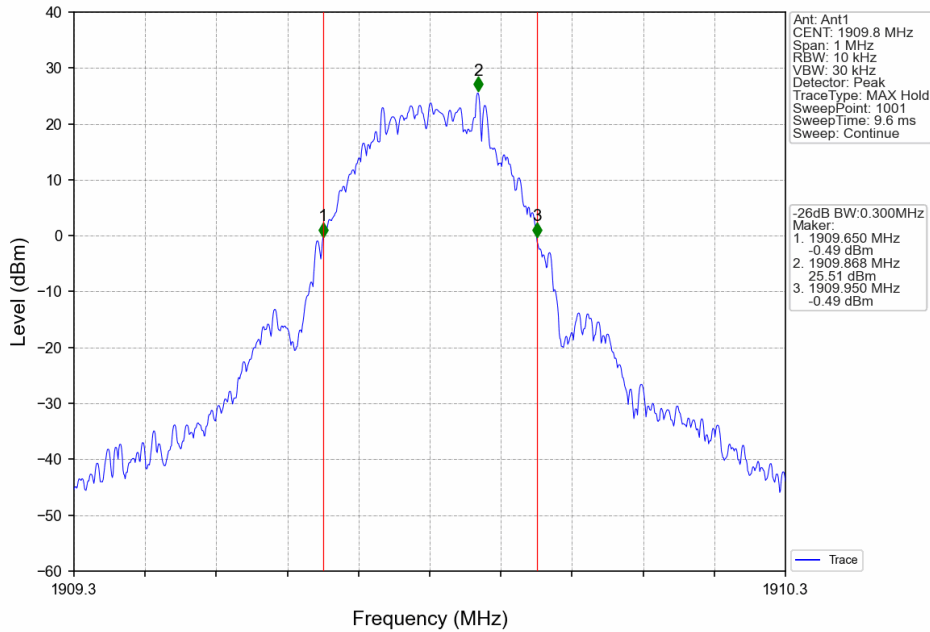
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Spurious Emission & Band Edge

PCS1900

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
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass



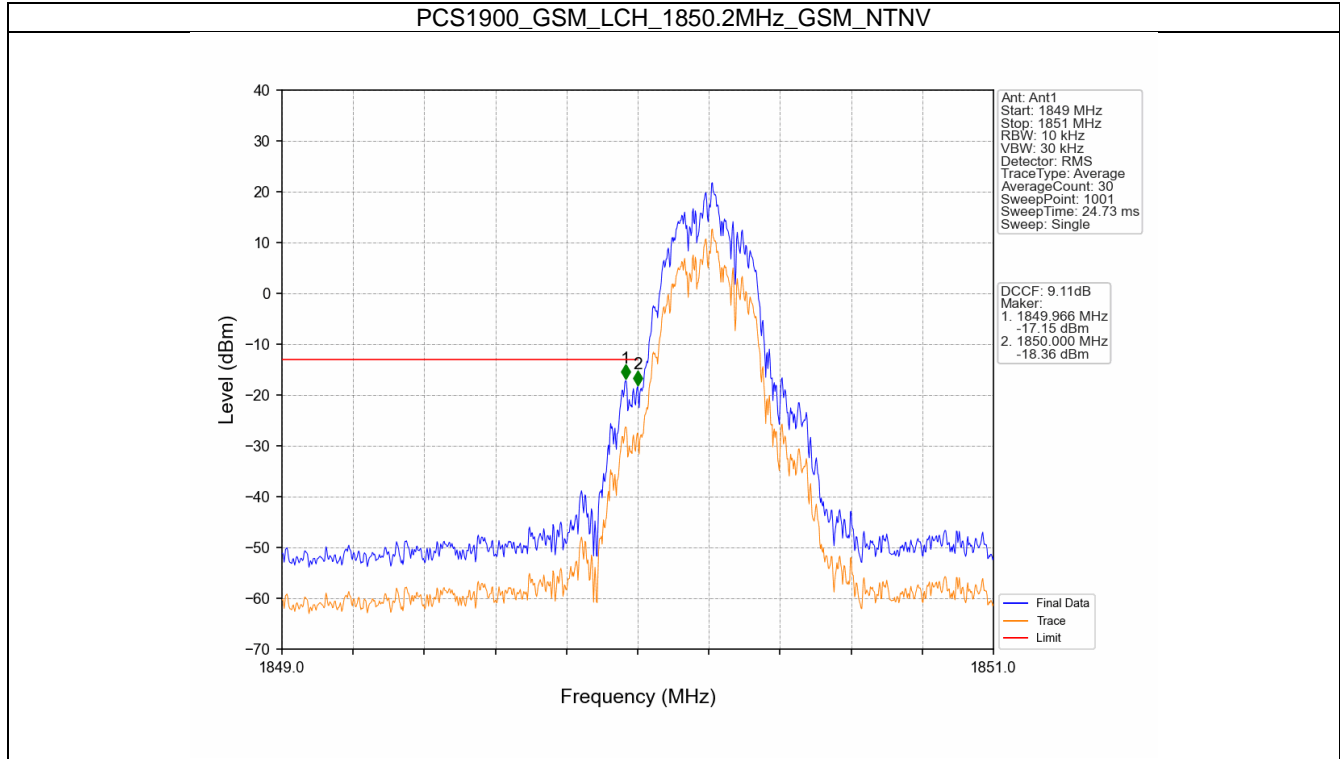
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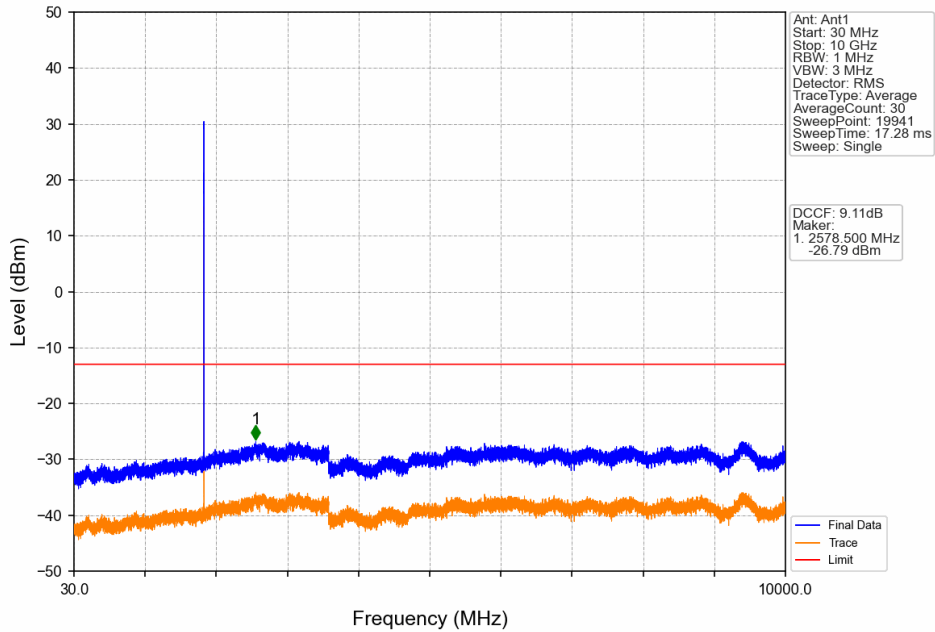


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PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



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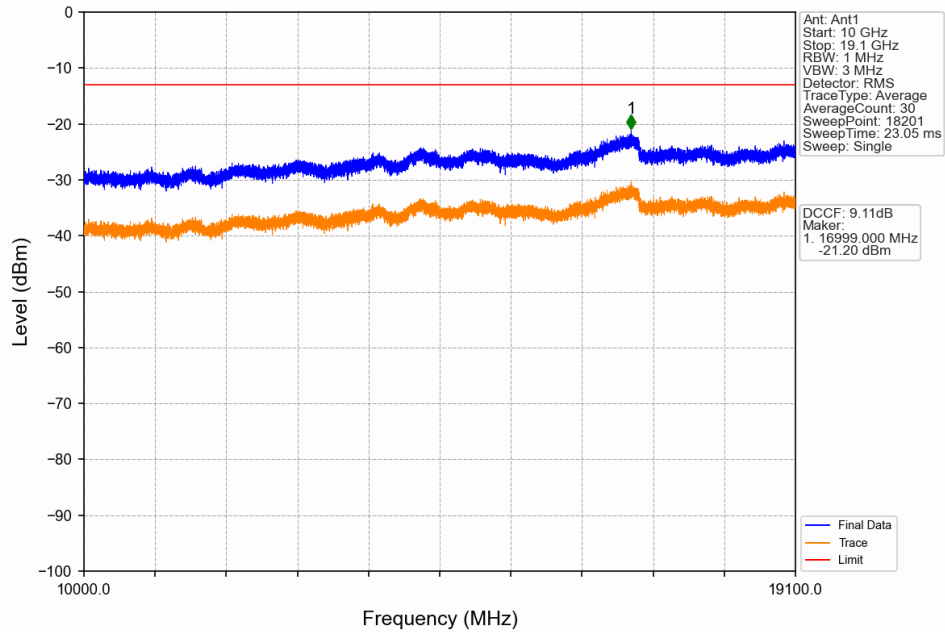


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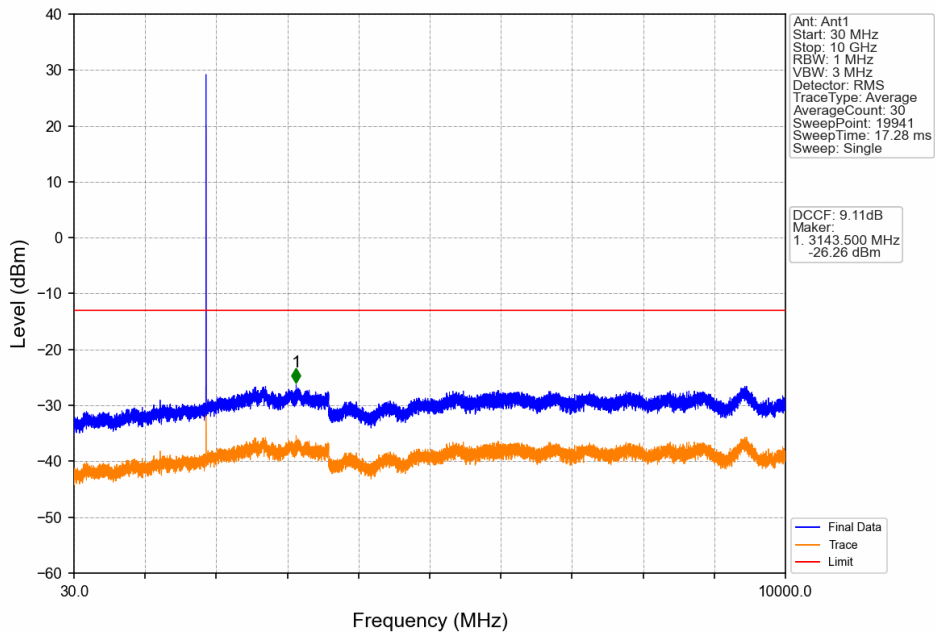
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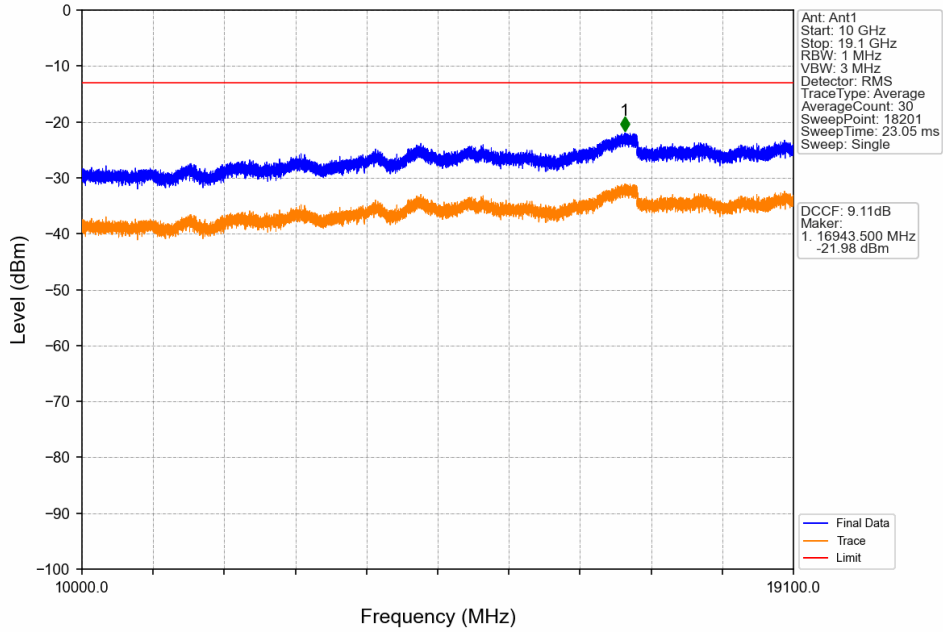


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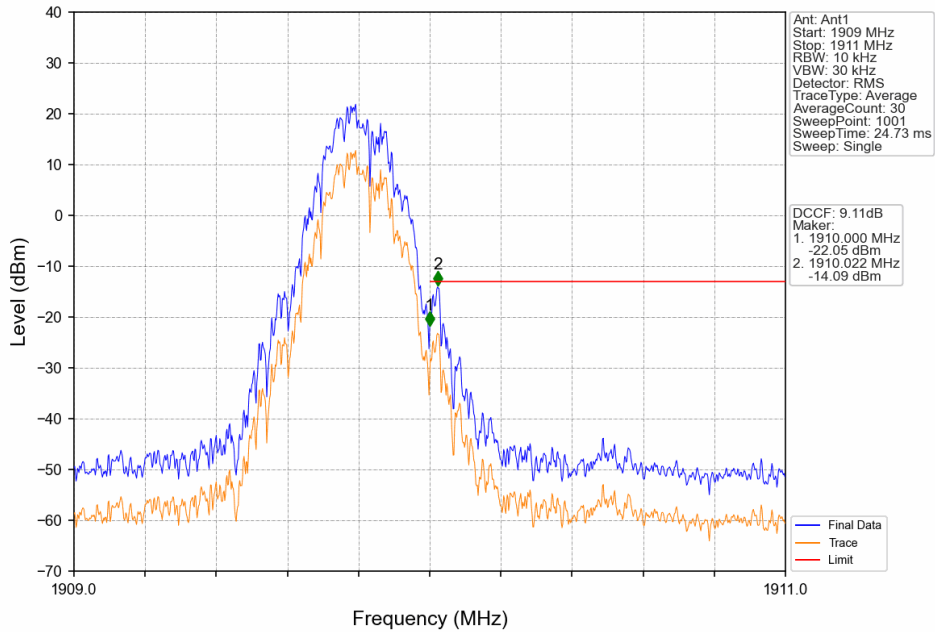
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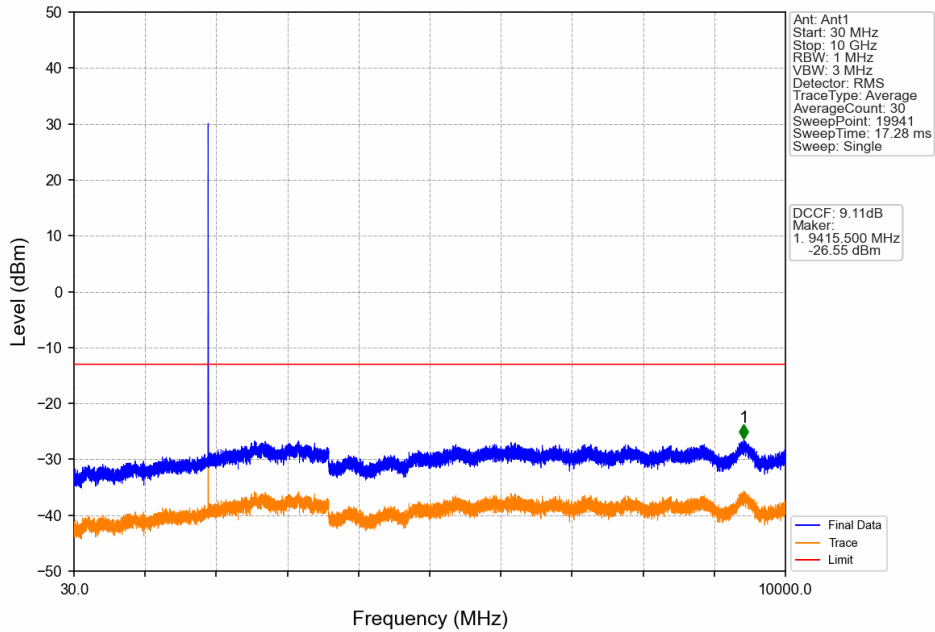
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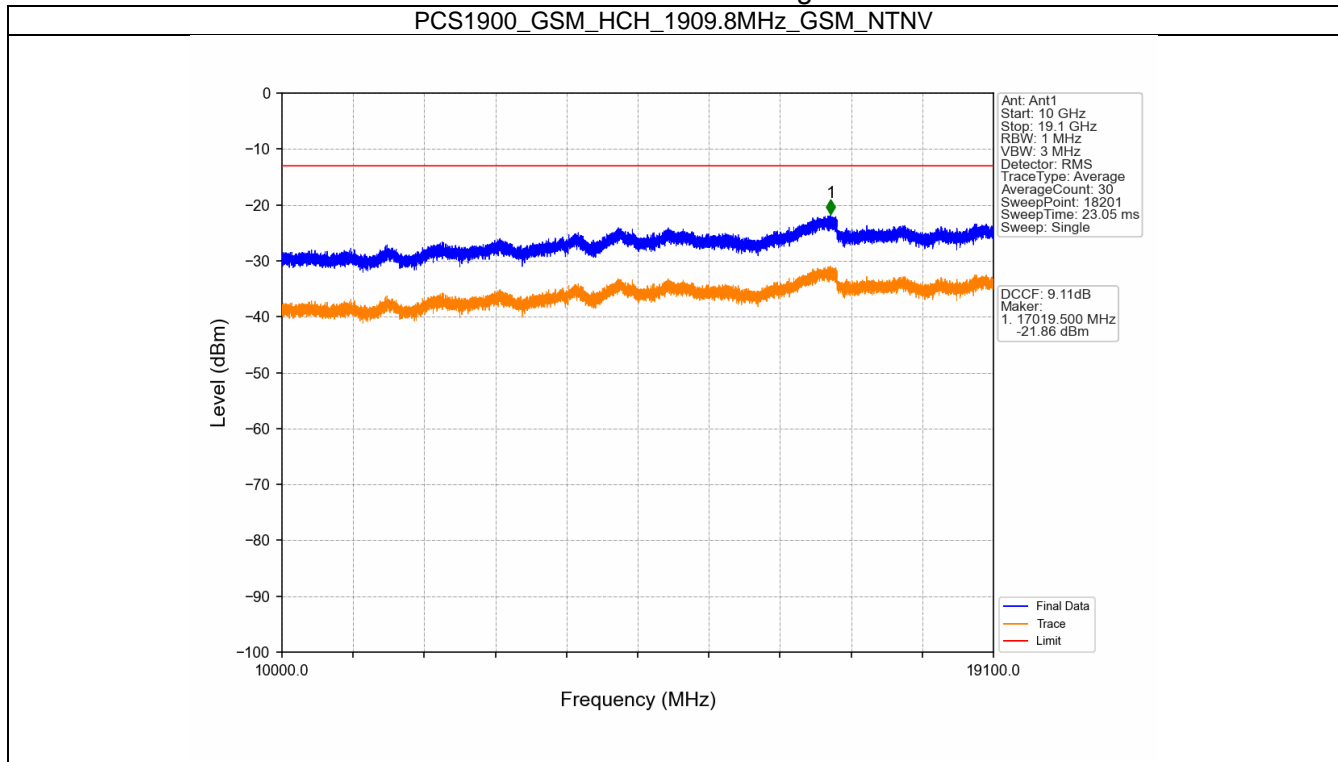


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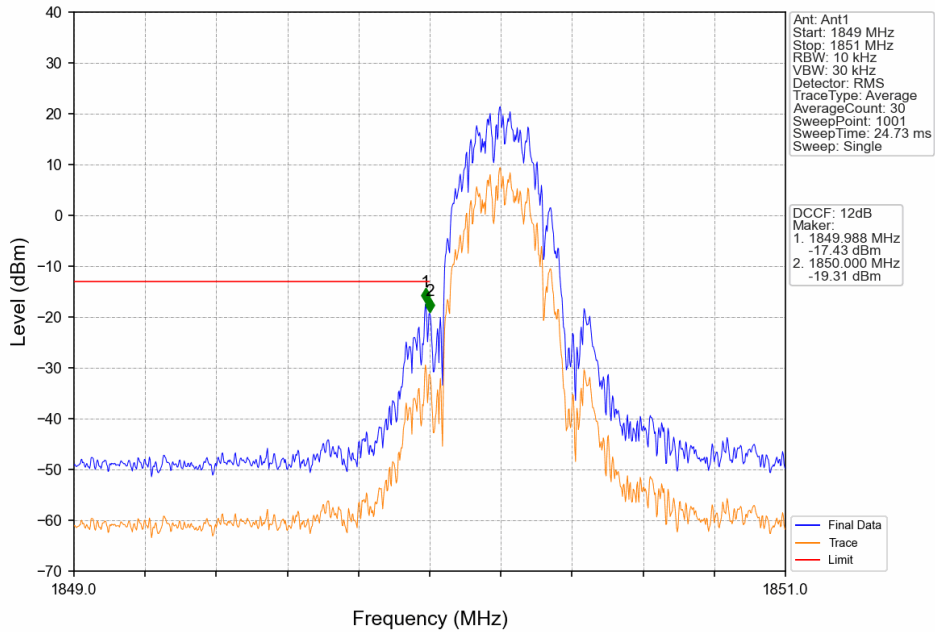
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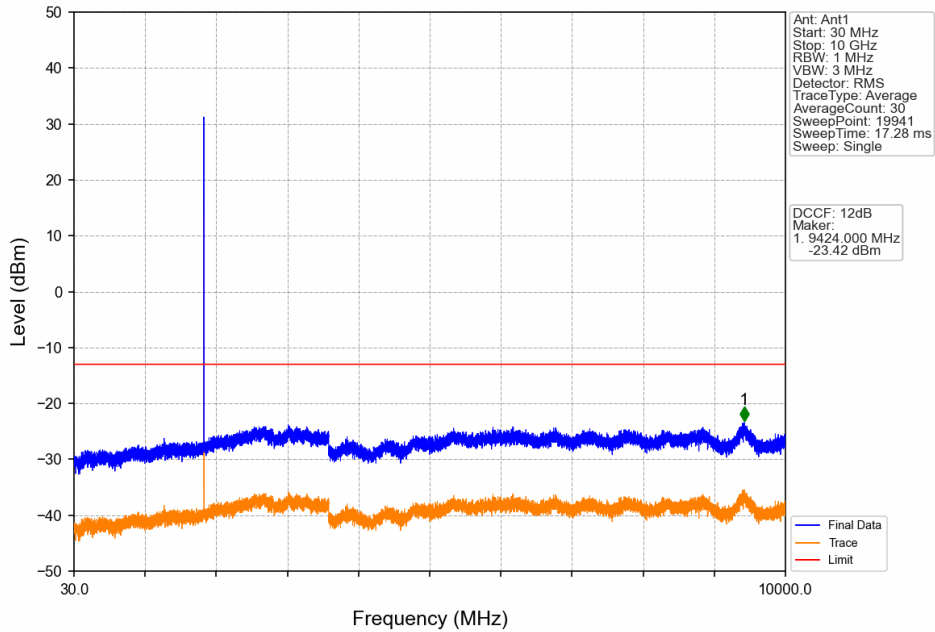


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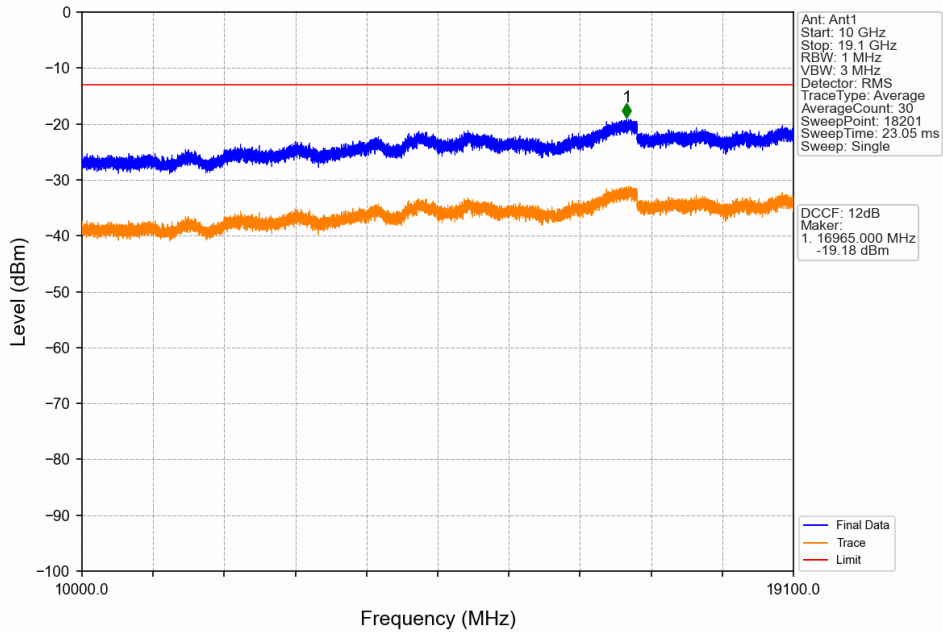


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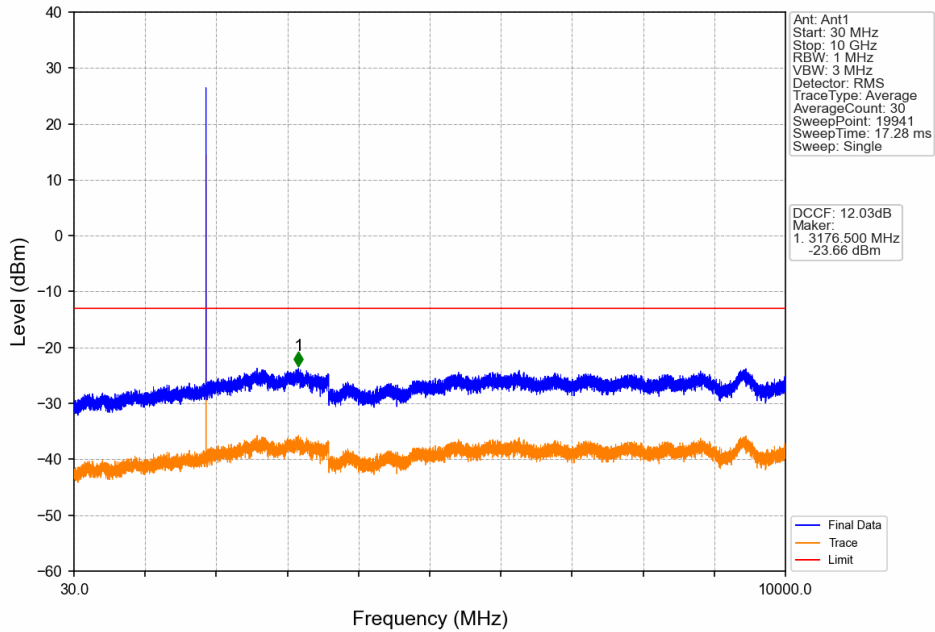


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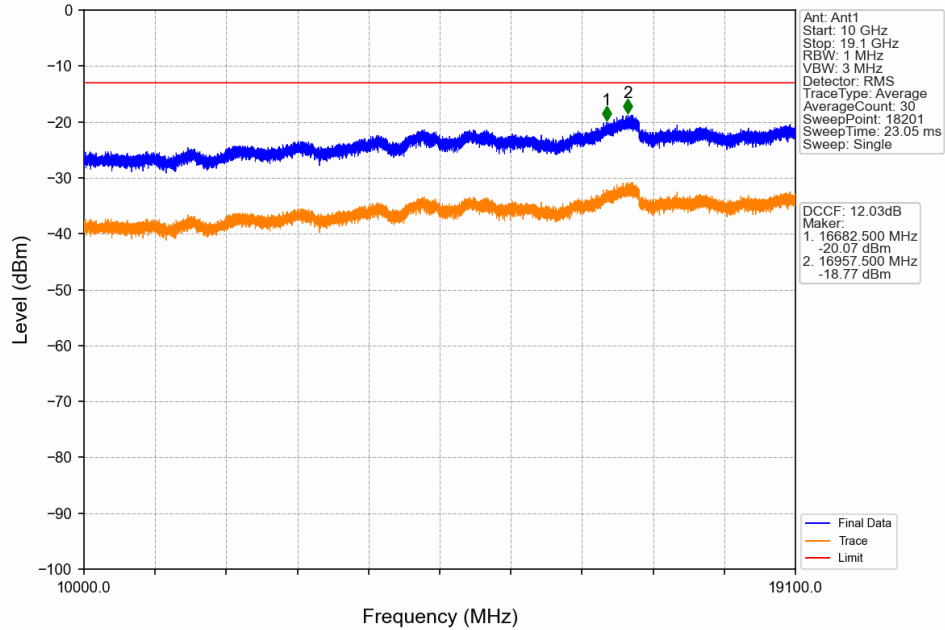


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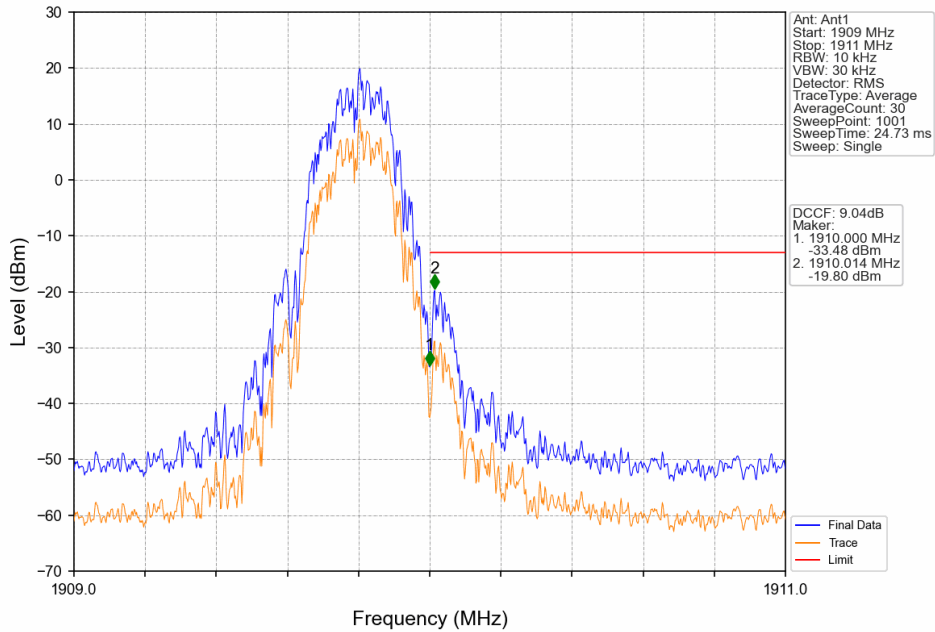


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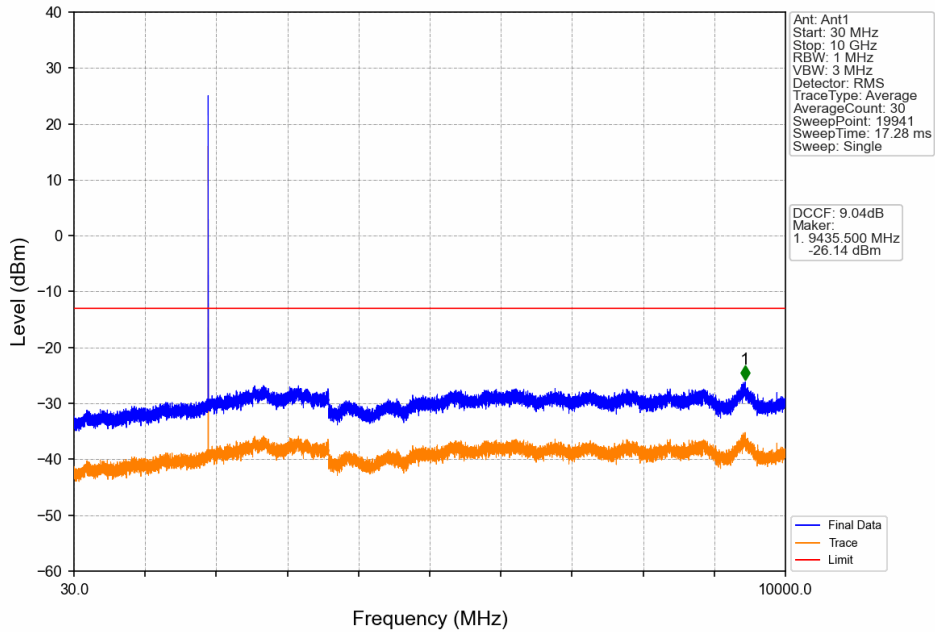


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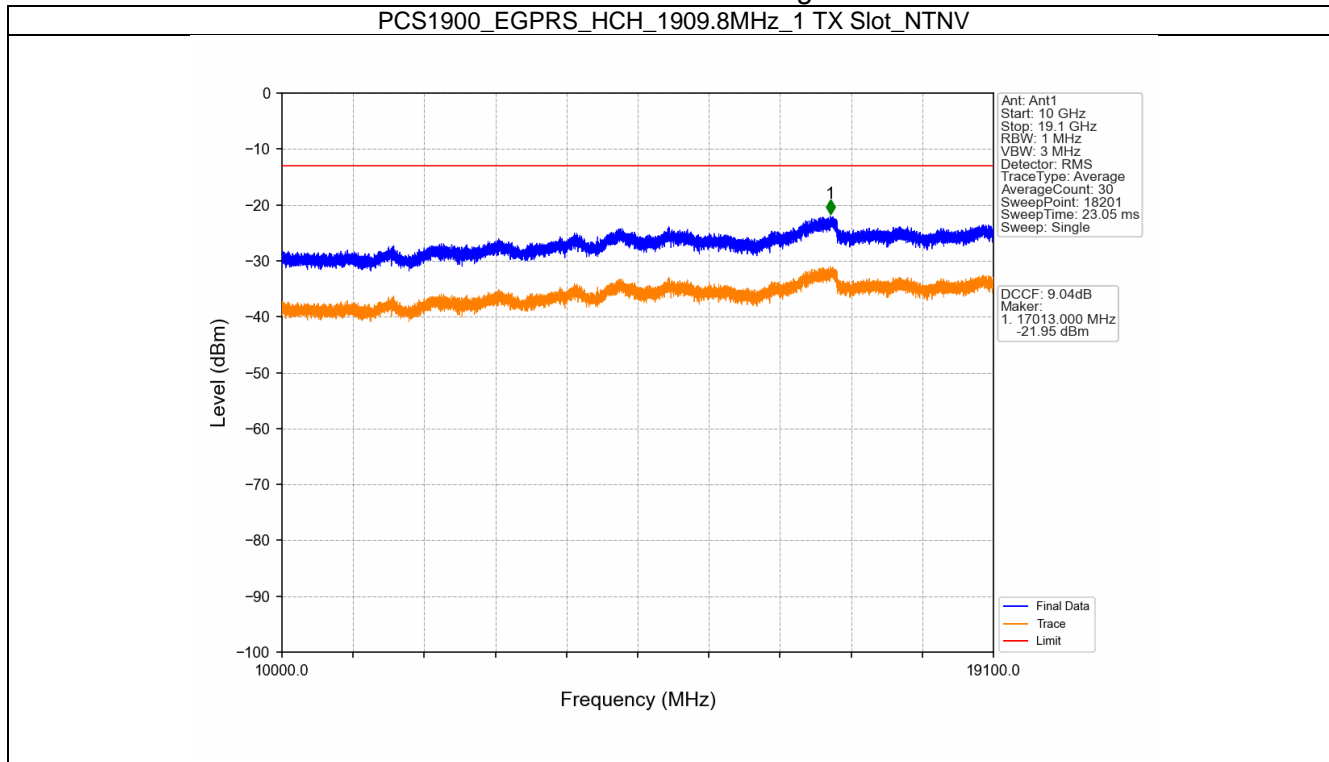


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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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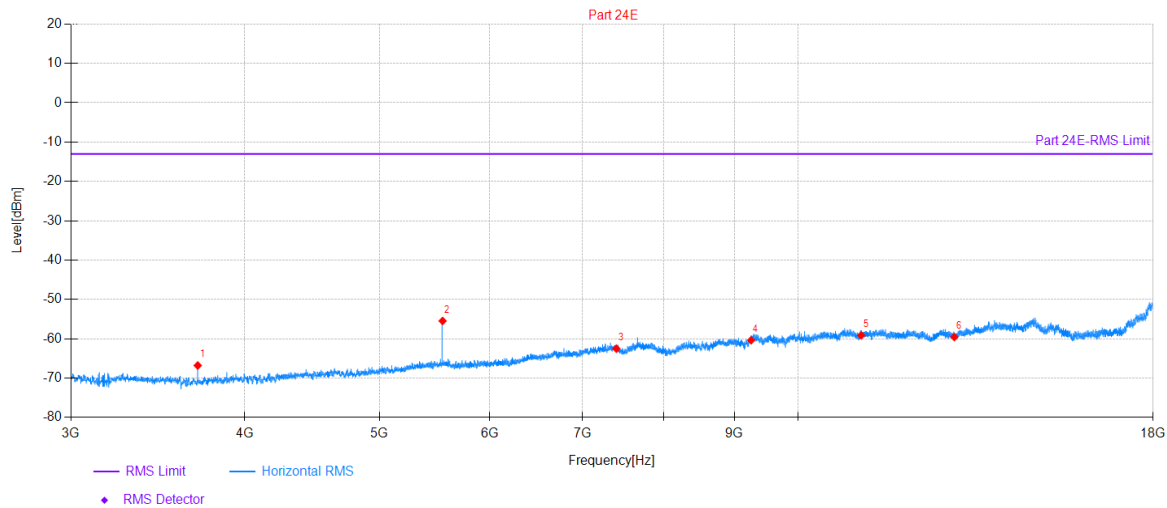
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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Field Strength of Spurious Radiation

Test Band = GSM 1900_

Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	48.00	-48.51	28.98	-66.79	-13.00	53.79	Horizontal
2	5550.6	54.74	-47.66	32.71	-55.47	-13.00	42.47	Horizontal
3	7400.8	42.36	-46.17	36.56	-62.51	-13.00	49.51	Horizontal
4	9251	40.27	-43.20	37.83	-60.37	-13.00	47.37	Horizontal
5	11101.2	37.12	-40.36	39.38	-59.12	-13.00	46.12	Horizontal
6	12951.4	36.50	-39.41	38.63	-59.54	-13.00	46.54	Horizontal



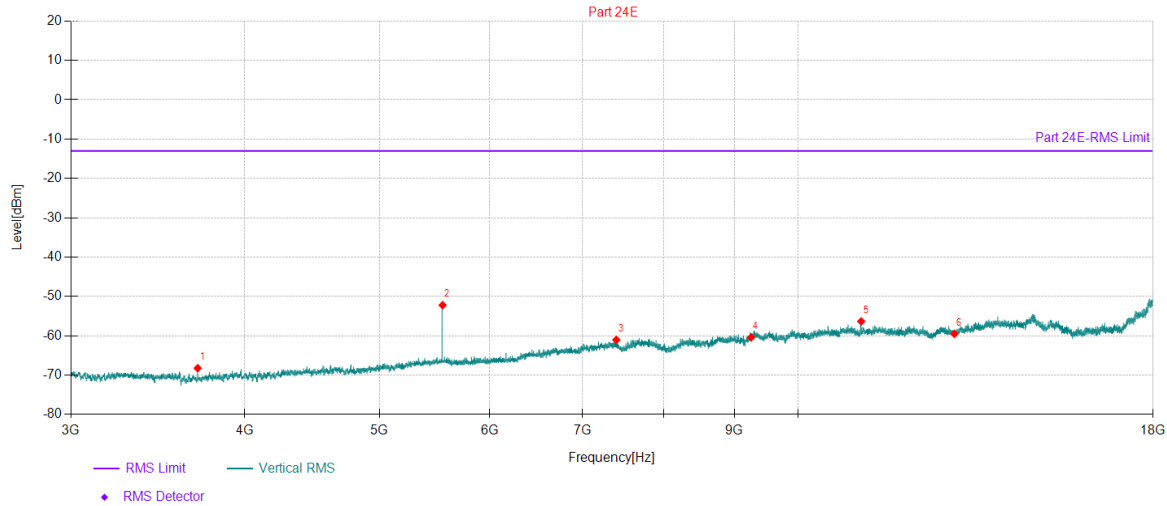
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Test Band = GSM 1900_
Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	46.56	-48.51	28.98	-68.23	-13.00	55.23	Vertical
2	5550.6	57.99	-47.66	32.71	-52.22	-13.00	39.22	Vertical
3	7400.8	43.83	-46.17	36.56	-61.04	-13.00	48.04	Vertical
4	9251	40.22	-43.20	37.83	-60.42	-13.00	47.42	Vertical
5	11101.2	39.90	-40.36	39.38	-56.34	-13.00	43.34	Vertical
6	12951.4	36.54	-39.41	38.63	-59.50	-13.00	46.50	Vertical

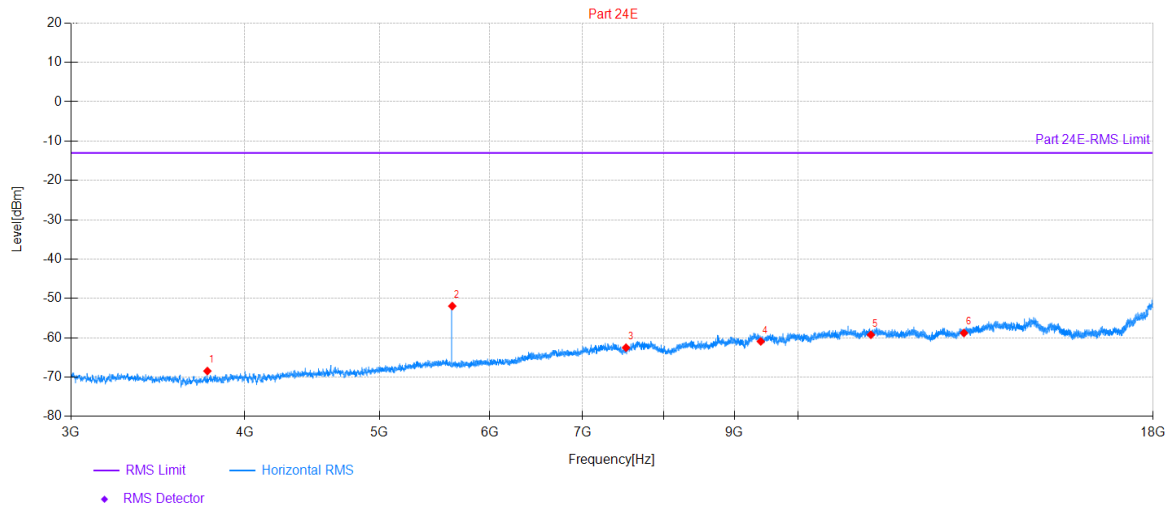


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Test Band = GSM 1900_
Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	46.06	-48.31	29.06	-68.45	-13.00	55.45	Horizontal
2	5640	58.21	-47.62	32.73	-51.94	-13.00	38.94	Horizontal
3	7520	41.82	-45.85	36.78	-62.51	-13.00	49.51	Horizontal
4	9400	39.43	-43.05	37.96	-60.92	-13.00	47.92	Horizontal
5	11280	37.11	-40.44	39.34	-59.24	-13.00	46.24	Horizontal
6	13160	36.09	-38.58	38.97	-58.78	-13.00	45.78	Horizontal



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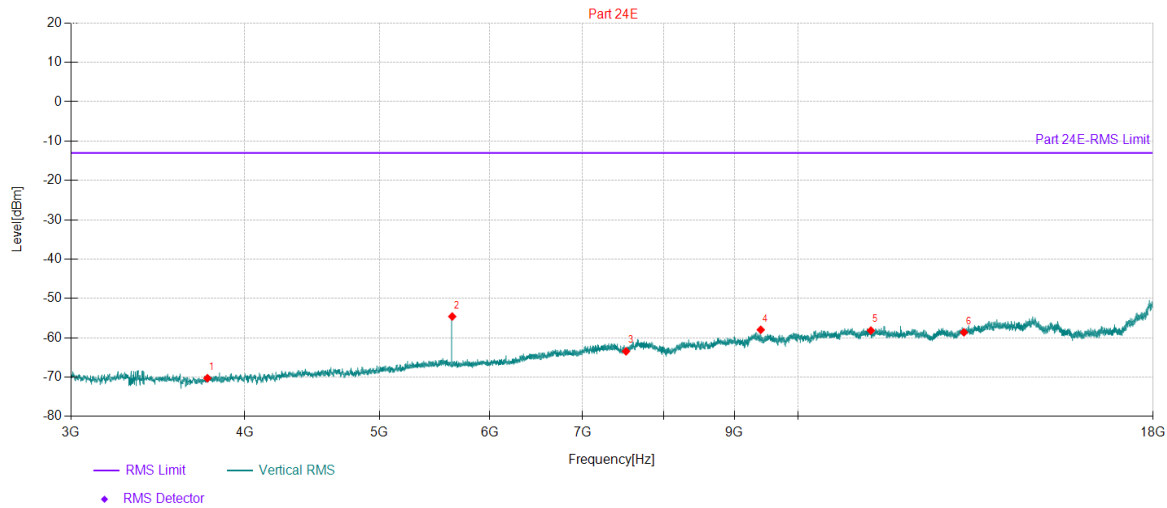


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Rev.: 01

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Test Band = GSM 1900_
Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	44.24	-48.31	29.06	-70.27	-13.00	57.27	Vertical
2	5640	55.56	-47.62	32.73	-54.59	-13.00	41.59	Vertical
3	7520	40.89	-45.85	36.78	-63.44	-13.00	50.44	Vertical
4	9400	42.38	-43.05	37.96	-57.97	-13.00	44.97	Vertical
5	11280	38.19	-40.44	39.34	-58.16	-13.00	45.16	Vertical
6	13160	36.27	-38.58	38.97	-58.60	-13.00	45.60	Vertical



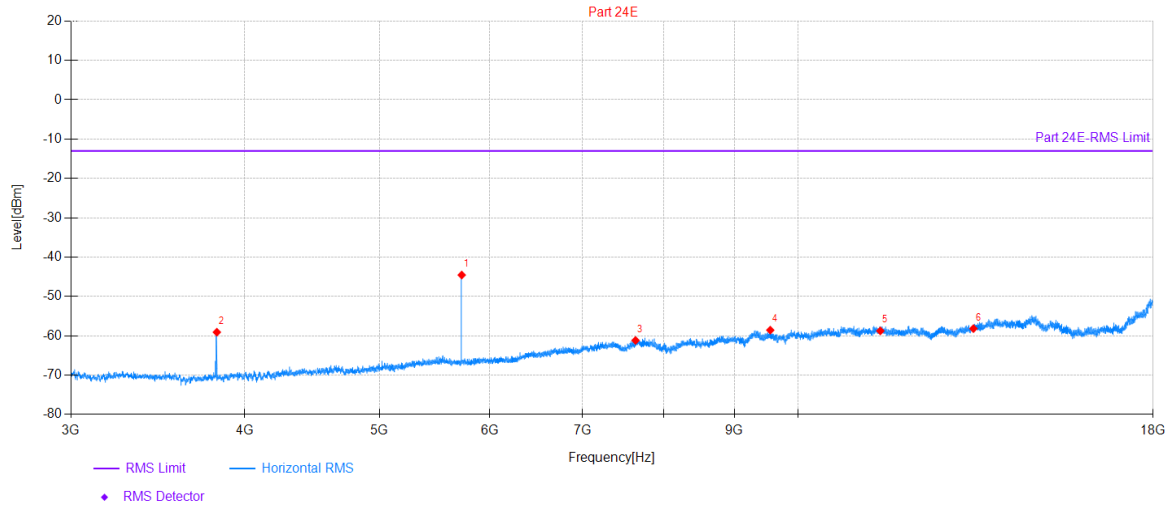
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Member of the SGS Group (SGS SA)

Test Band = GSM 1900_
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	65.50	-47.54	32.75	-44.55	-13.00	31.55	Horizontal
2	3819.6	55.23	-48.20	29.15	-59.08	-13.00	46.08	Horizontal
3	7639.2	42.27	-44.82	36.63	-61.18	-13.00	48.18	Horizontal
4	9549	40.91	-42.31	38.09	-58.56	-13.00	45.56	Horizontal
5	11458.8	37.27	-40.07	39.31	-58.75	-13.00	45.75	Horizontal
6	13368.6	36.79	-39.15	39.45	-58.17	-13.00	45.17	Horizontal

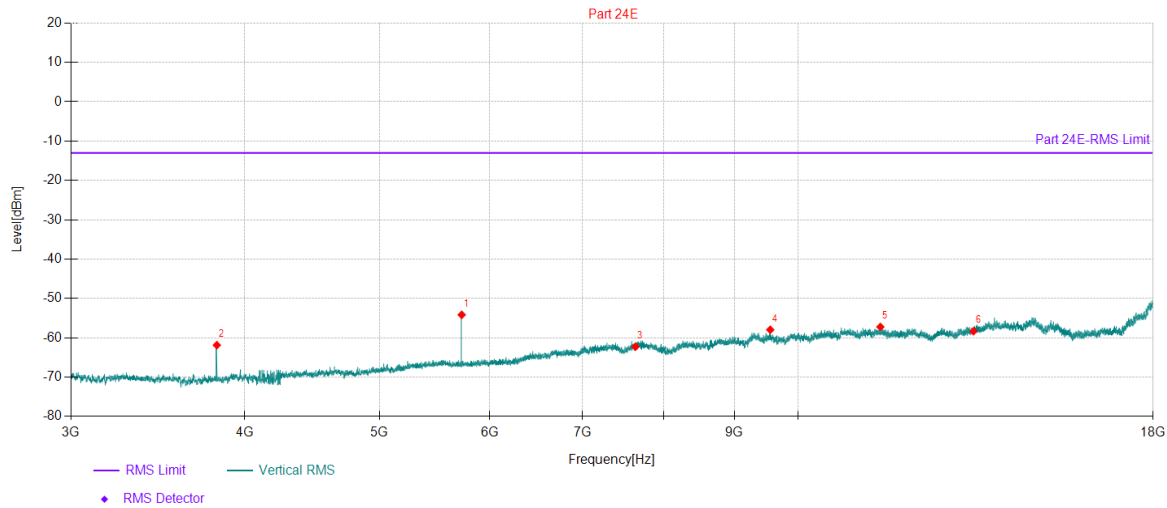


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Test Band = GSM 1900_
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	55.89	-47.54	32.75	-54.16	-13.00	41.16	Vertical
2	3819.6	52.44	-48.20	29.15	-61.87	-13.00	48.87	Vertical
3	7639.2	41.19	-44.82	36.63	-62.26	-13.00	49.26	Vertical
4	9549	41.51	-42.31	38.09	-57.96	-13.00	44.96	Vertical
5	11458.8	38.78	-40.07	39.31	-57.24	-13.00	44.24	Vertical
6	13368.6	36.63	-39.15	39.45	-58.33	-13.00	45.33	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



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Frequency Stability
PCS1900

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	3.4	14.561	0.0079	/	Pass		
			3.89	8.685	0.0047	/	Pass		
			4.48	10.396	0.0056	/	Pass		
		-30	3.89	10.687	0.0058	/	Pass		
		-20	3.89	12.075	0.0065	/	Pass		
		-10	3.89	13.366	0.0072	/	Pass		
		0	3.89	12.462	0.0067	/	Pass		
		10	3.89	14.819	0.0080	/	Pass		
		30	3.89	10.622	0.0057	/	Pass		
		40	3.89	12.882	0.0070	/	Pass		
		50	3.89	15.207	0.0082	/	Pass		
		1880	20	3.4	17.208	0.0092	/	Pass	
				3.89	20.405	0.0109	/	Pass	
				4.48	17.208	0.0092	/	Pass	
			-30	3.89	18.920	0.0101	/	Pass	
	-20		3.89	17.467	0.0093	/	Pass		
	-10		3.89	17.241	0.0092	/	Pass		
	0		3.89	15.982	0.0085	/	Pass		
	10		3.89	45.943	0.0244	/	Pass		
	30		3.89	19.275	0.0103	/	Pass		
	40		3.89	19.275	0.0103	/	Pass		
	50		3.89	21.567	0.0115	/	Pass		
	1909.8		20	3.4	24.989	0.0131	/	Pass	
				3.89	20.889	0.0109	/	Pass	
				4.48	24.957	0.0131	/	Pass	
			-30	3.89	22.729	0.0119	/	Pass	
		-20	3.89	23.601	0.0124	/	Pass		
		-10	3.89	20.954	0.0110	/	Pass		
		0	3.89	21.341	0.0112	/	Pass		
		10	3.89	23.698	0.0124	/	Pass		
		30	3.89	24.505	0.0128	/	Pass		
		40	3.89	22.084	0.0116	/	Pass		
		50	3.89	25.248	0.0132	/	Pass		
		EGPRS	1850.2	20	3.4	28.412	0.0154	/	Pass
					3.89	30.898	0.0167	/	Pass
					4.48	30.510	0.0165	/	Pass
				-30	3.89	30.833	0.0167	/	Pass
	-20			3.89	30.220	0.0163	/	Pass	
	-10			3.89	29.735	0.0161	/	Pass	
	0			3.89	29.671	0.0160	/	Pass	



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		10	3.89	28.315	0.0153	/	Pass
		30	3.89	29.961	0.0162	/	Pass
		40	3.89	28.928	0.0156	/	Pass
		50	3.89	28.993	0.0157	/	Pass
	1880	20	3.4	31.834	0.0169	/	Pass
			3.89	33.642	0.0179	/	Pass
			4.48	29.283	0.0156	/	Pass
		-30	3.89	31.124	0.0166	/	Pass
		-20	3.89	30.155	0.0160	/	Pass
		-10	3.89	30.768	0.0164	/	Pass
		0	3.89	28.605	0.0152	/	Pass
		10	3.89	30.672	0.0163	/	Pass
		30	3.89	31.414	0.0167	/	Pass
		40	3.89	30.413	0.0162	/	Pass
		50	3.89	28.379	0.0151	/	Pass
		1909.8	20	3.4	31.608	0.0166	/
	3.89			30.090	0.0158	/	Pass
	4.48			29.316	0.0154	/	Pass
	-30		3.89	30.704	0.0161	/	Pass
	-20		3.89	27.508	0.0144	/	Pass
-10	3.89		30.123	0.0158	/	Pass	
0	3.89		29.542	0.0155	/	Pass	
10	3.89		30.349	0.0159	/	Pass	
30	3.89		30.155	0.0158	/	Pass	
40	3.89		30.187	0.0158	/	Pass	
50	3.89		29.090	0.0152	/	Pass	

---End of Attachment---



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