



Report No.: SEWM2311000471RG01

Rev.: 01

Page: 1 of 32

Appendix B.2

GSM 1900



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Report No.: SEWM2311000471RG01

Rev.: 01

Page: 2 of 32

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	27.4	0.90	28.3	<=33.00	Pass
			1880	27.42	0.90	28.32	<=33.00	Pass
			1909.8	27.54	0.90	28.44	<=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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Rev.: 01

Page: 3 of 32

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	9.18	<=13	Pass
			1880	9.72	<=13	Pass
			1909.8	9.55	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.85	<=13	Pass
			1880	7.80	<=13	Pass
			1909.8	7.86	<=13	Pass



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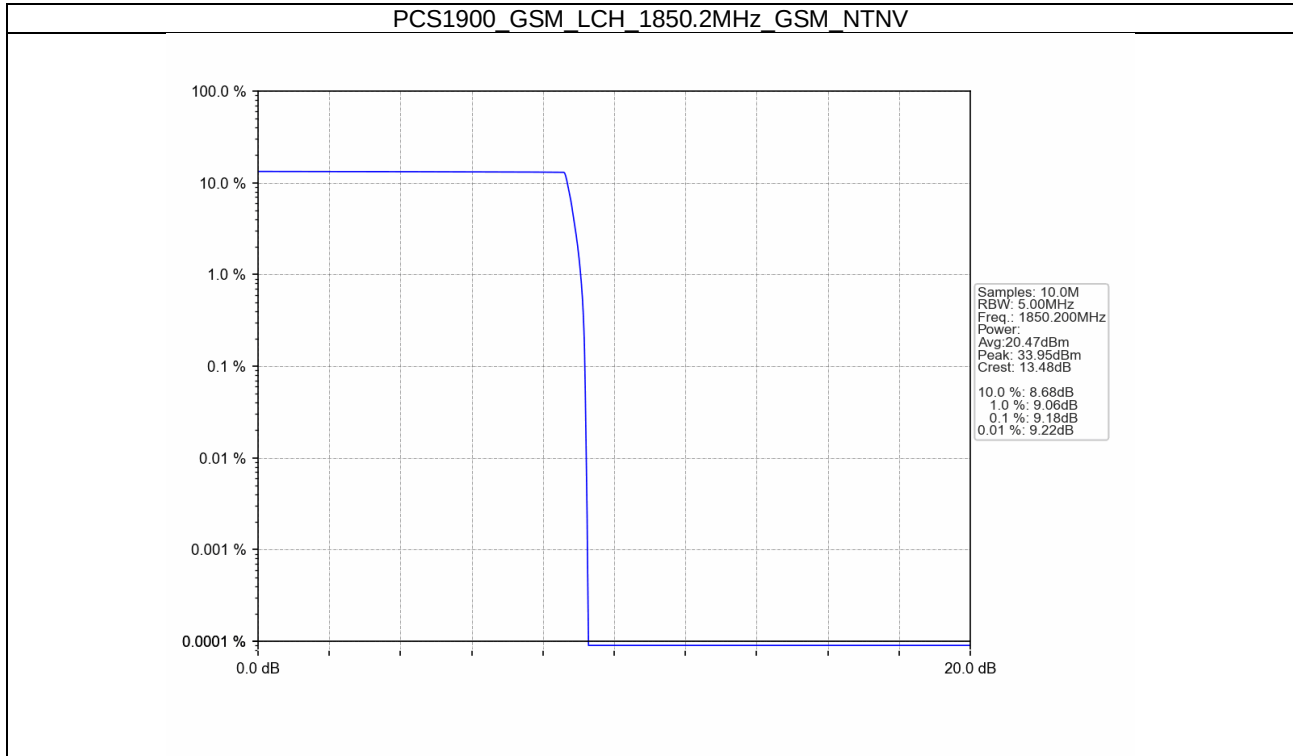
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Rev.: 01

Page: 4 of 32

Test Graph



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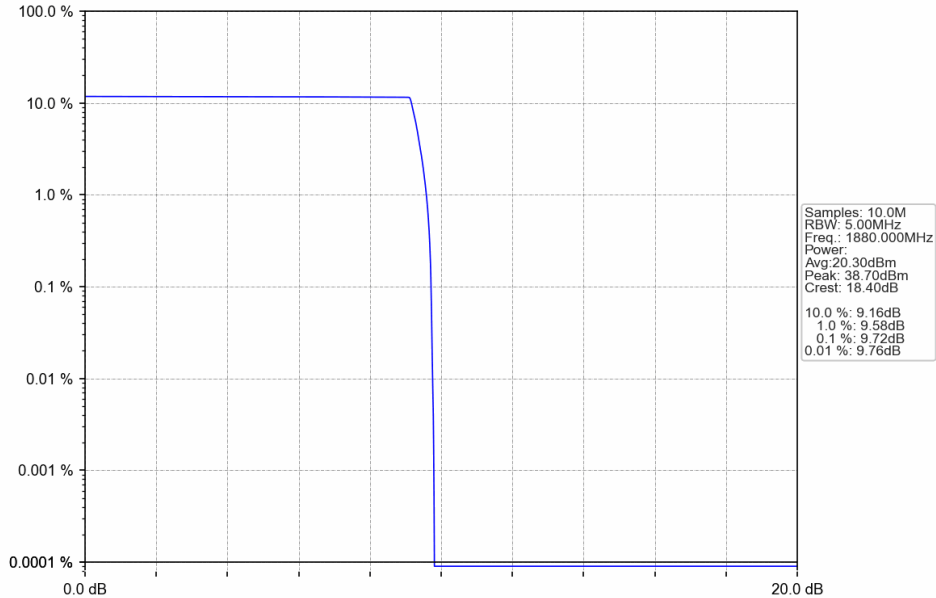
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Rev.: 01

Page: 5 of 32

PCS1900 GSM MCH 1880MHz GSM NTN



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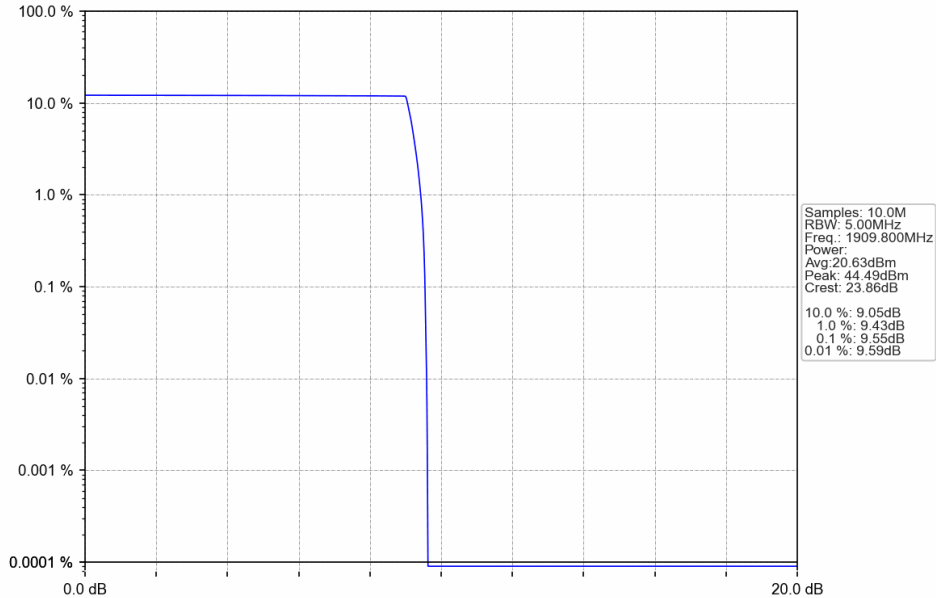
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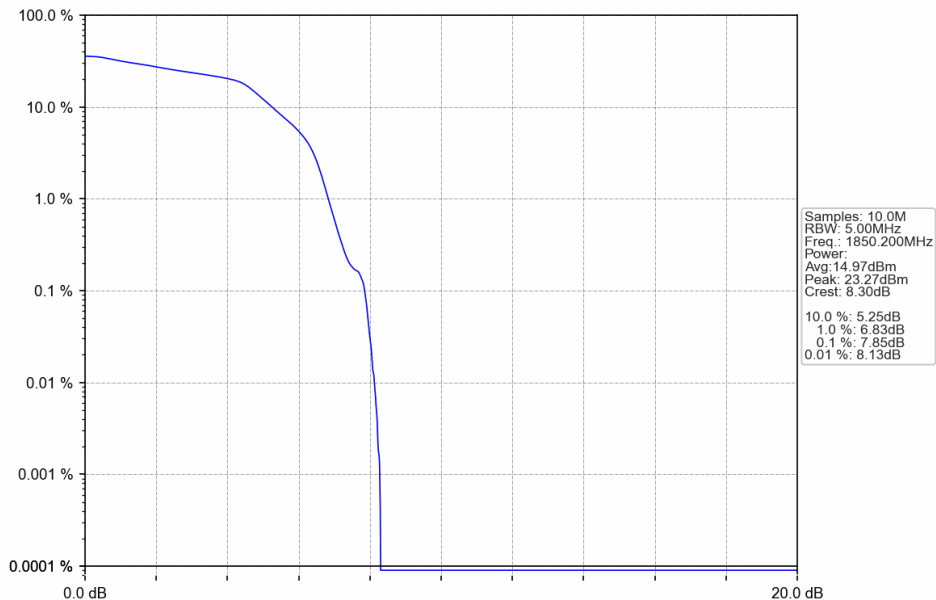
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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



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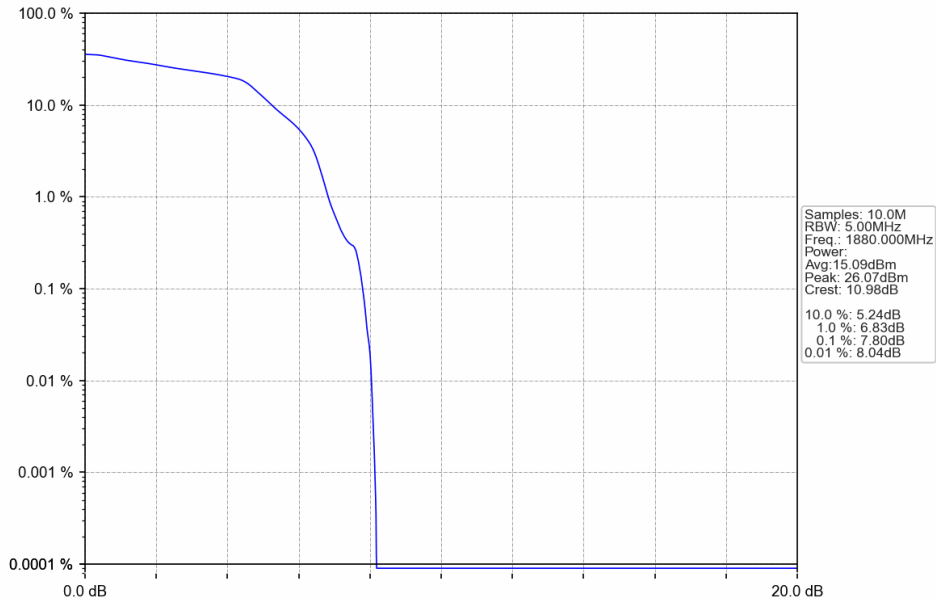
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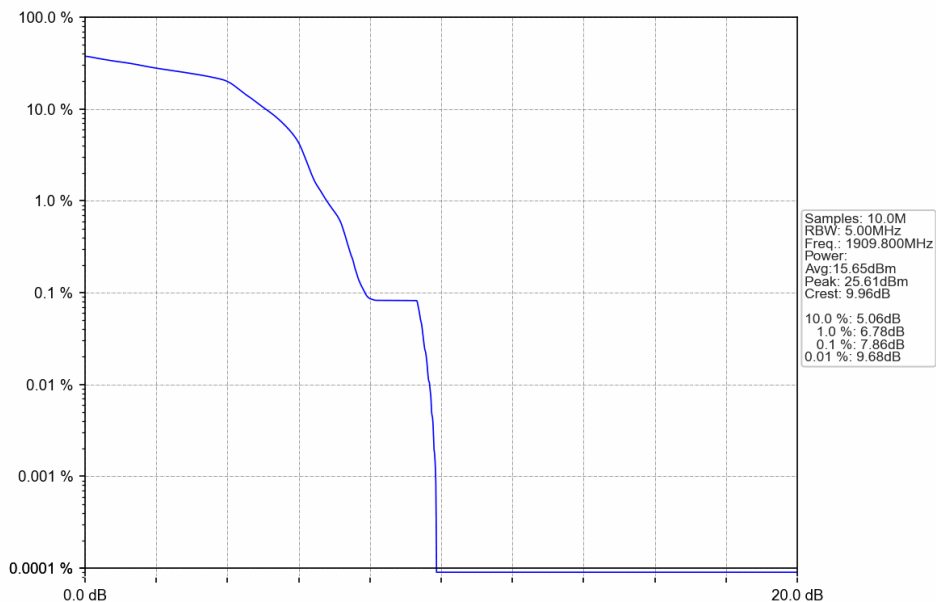
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PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



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Rev.: 01

Page: 8 of 32

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	0.245	/	Pass
			1909.8	0.246	/	Pass
	EGPRS	1 TX Slot	1850.2	0.242	/	Pass
			1880	0.240	/	Pass
			1909.8	0.241	/	Pass



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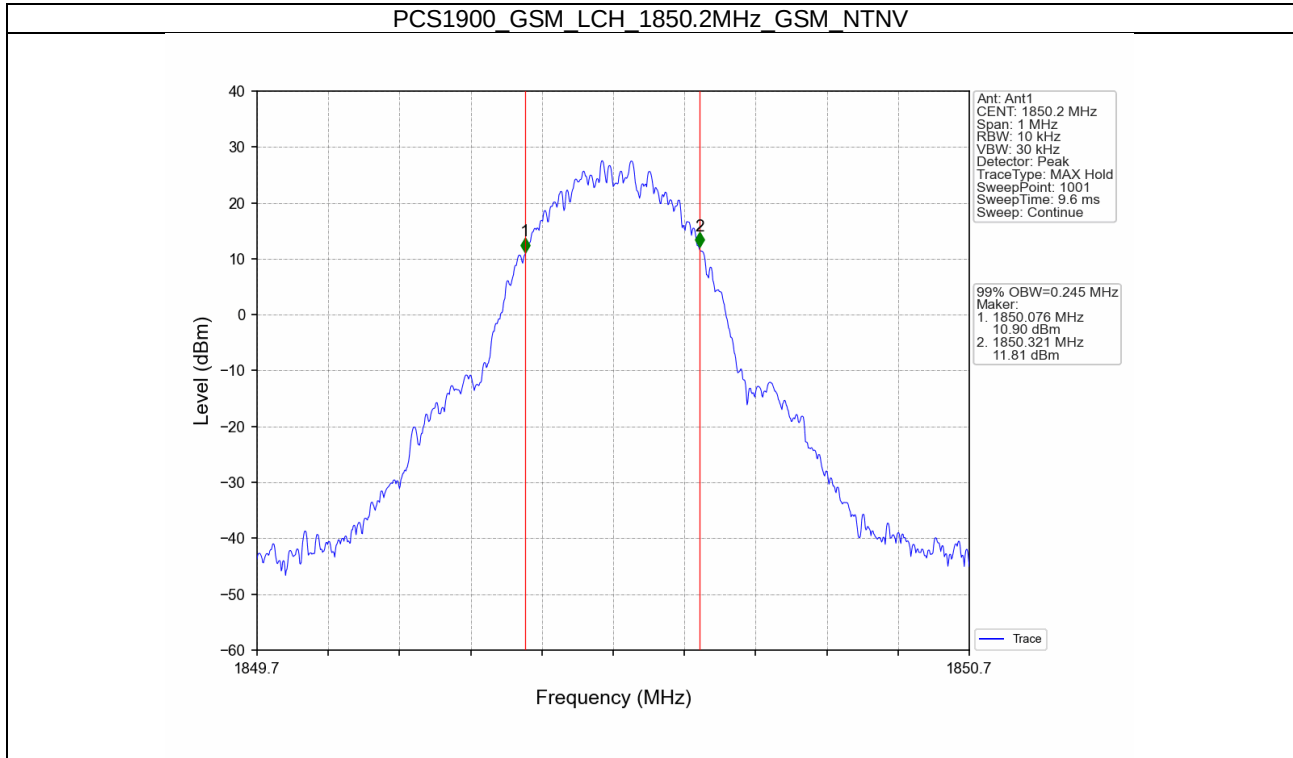
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Rev.: 01

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Test Graph



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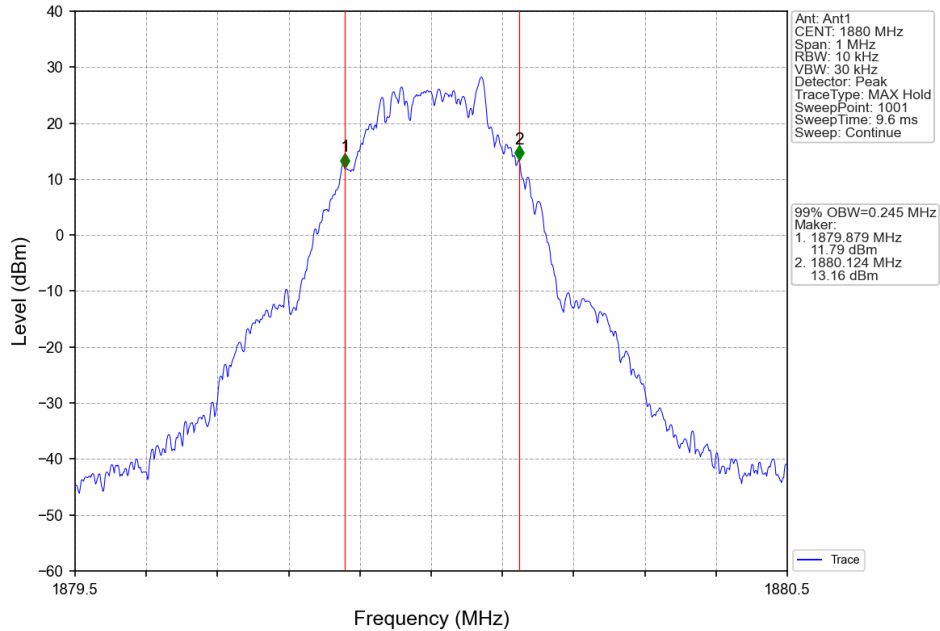
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Rev.: 01

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PCS1900_GSM_MCH_1880MHz_GSM_NTNV



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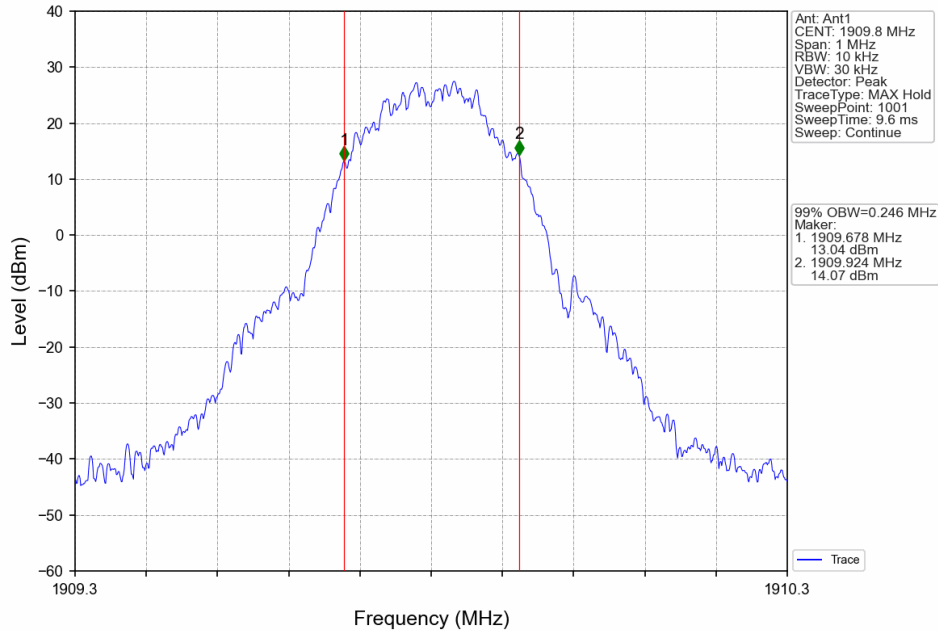
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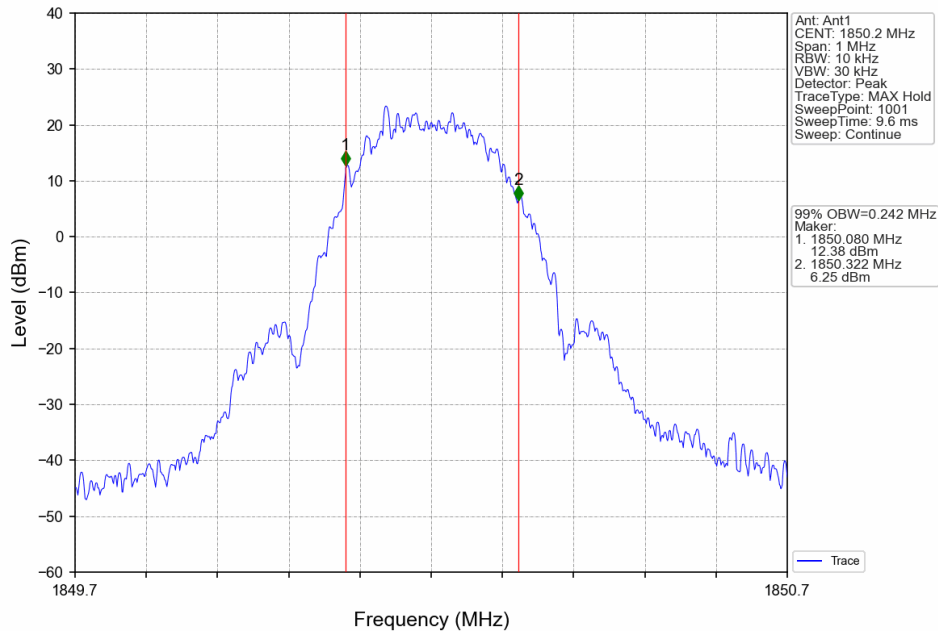
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PCS1900 GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900 EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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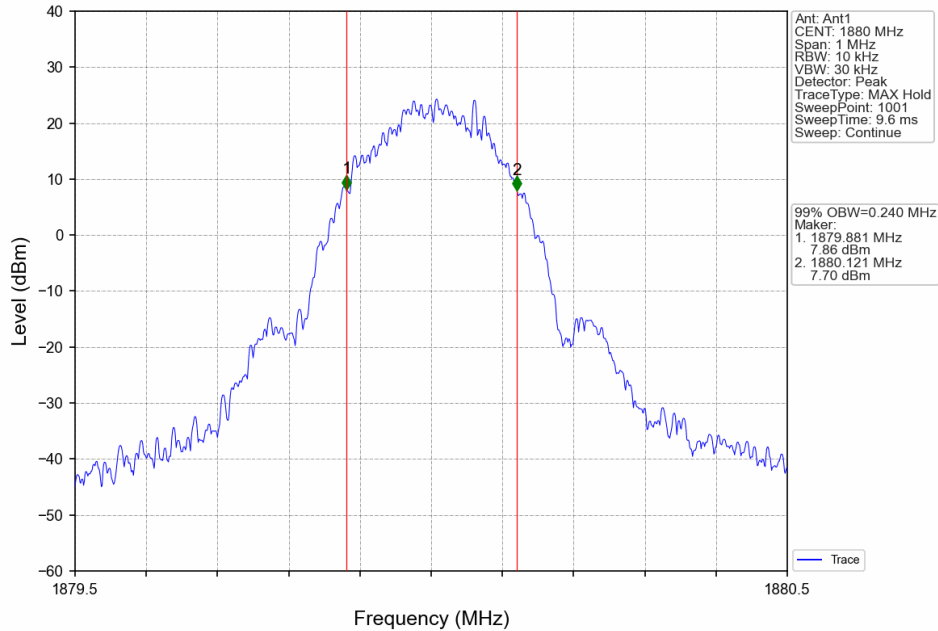
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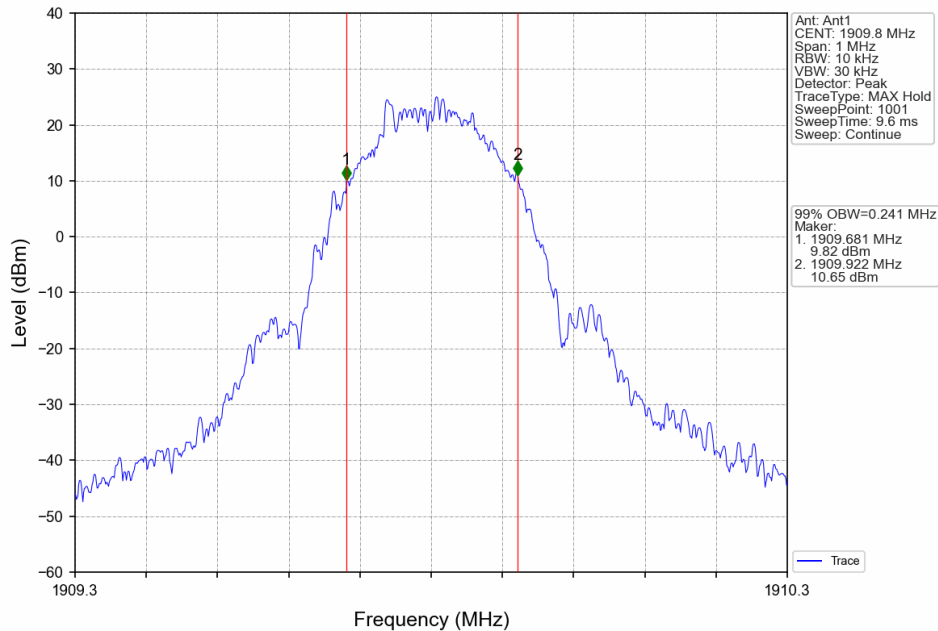
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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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Report No.: SEWM2311000471RG01

Rev.: 01

Page: 13 of 32

PCS1900_XDB

Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.310	/	Pass
			1880	0.314	/	Pass
			1909.8	0.313	/	Pass
	EGPRS	1 TX Slot	1850.2	0.301	/	Pass
			1880	0.315	/	Pass
			1909.8	0.304	/	Pass



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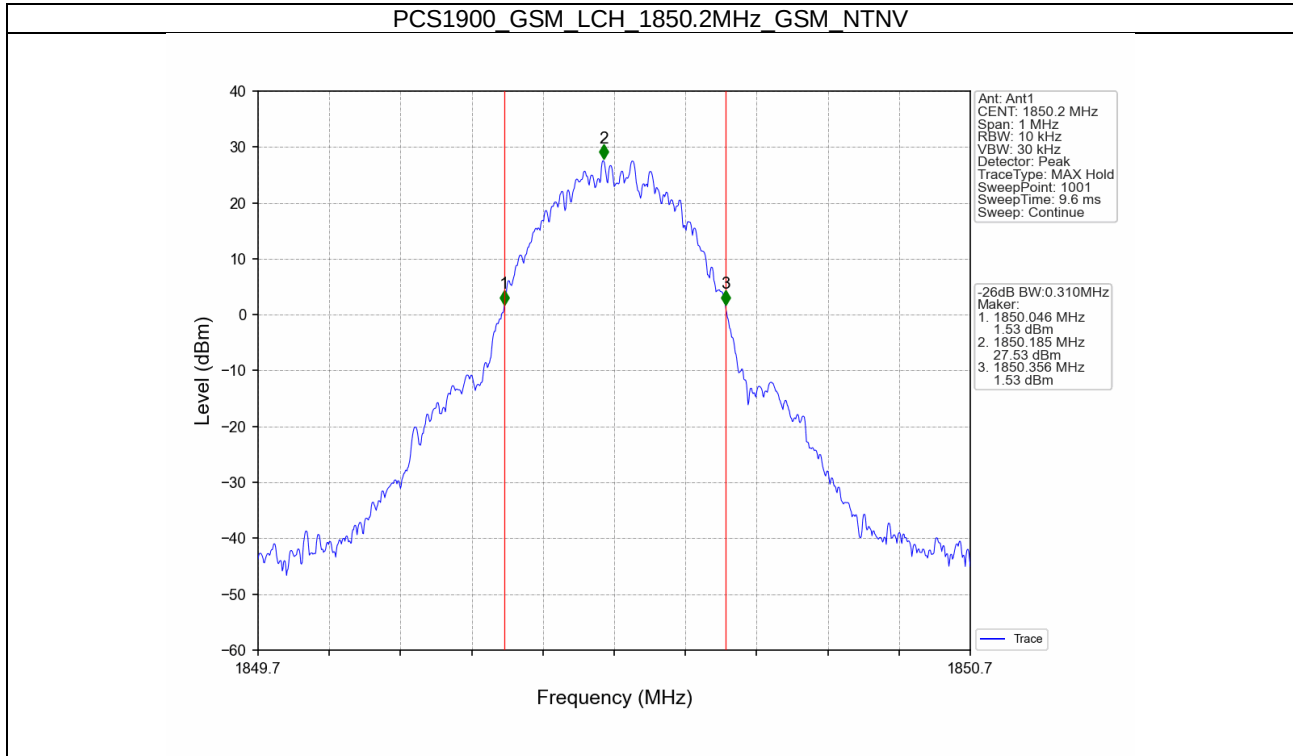
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Rev.: 01

Page: 14 of 32

Test Graph



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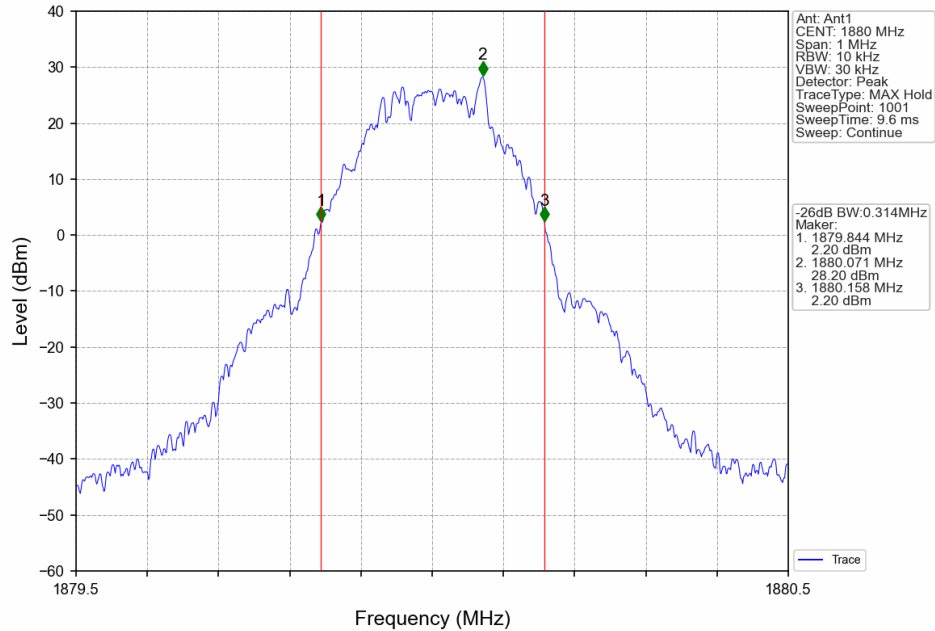
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Rev.: 01

Page: 15 of 32

PCS1900_GSM_MCH_1880MHz_GSM_NTNV



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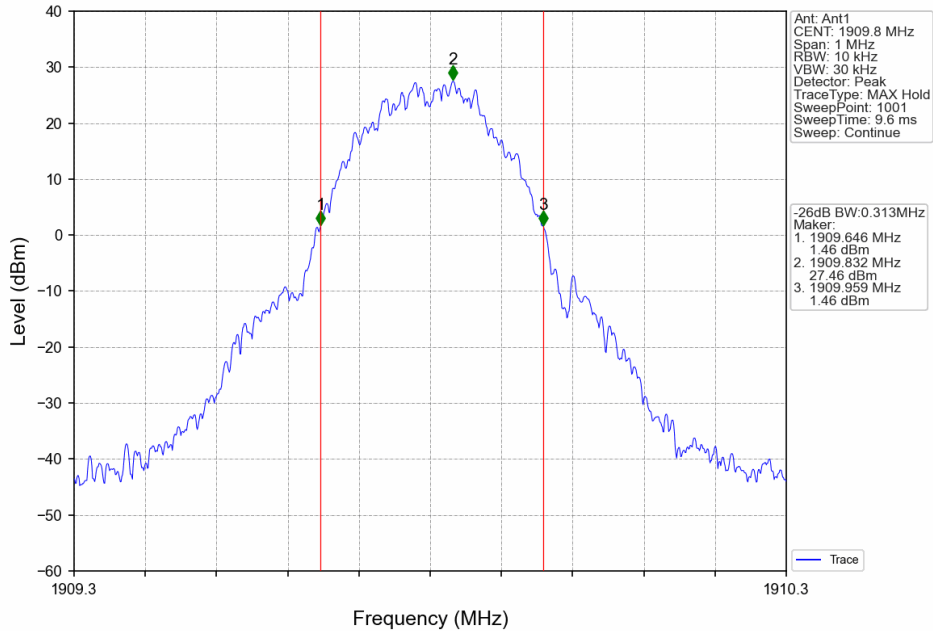
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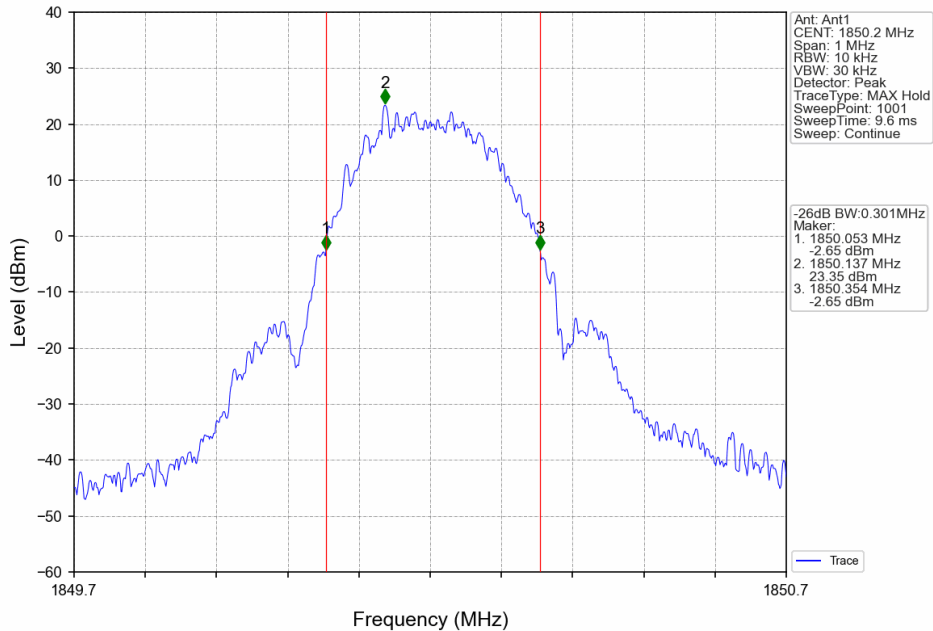
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Page: 16 of 32

PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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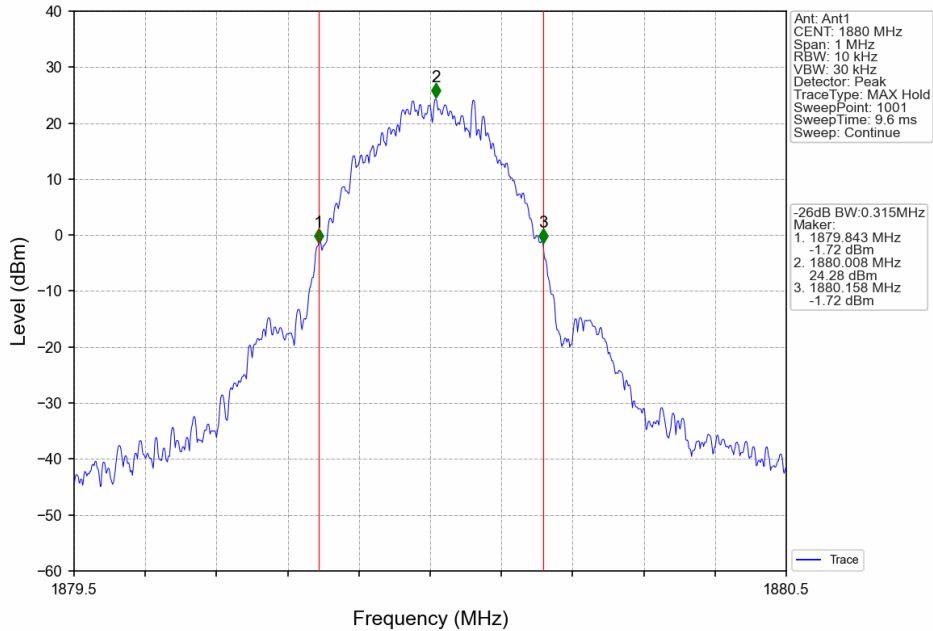
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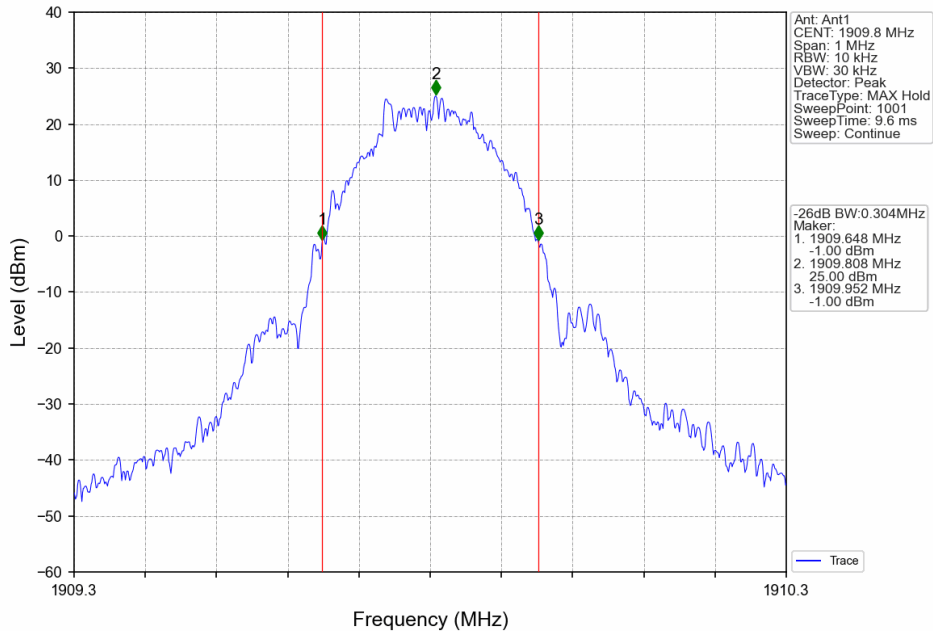
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Page: 17 of 32

PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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Rev.: 01

Page: 18 of 32

Spurious Emission & Band Edge

PCS1900

Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	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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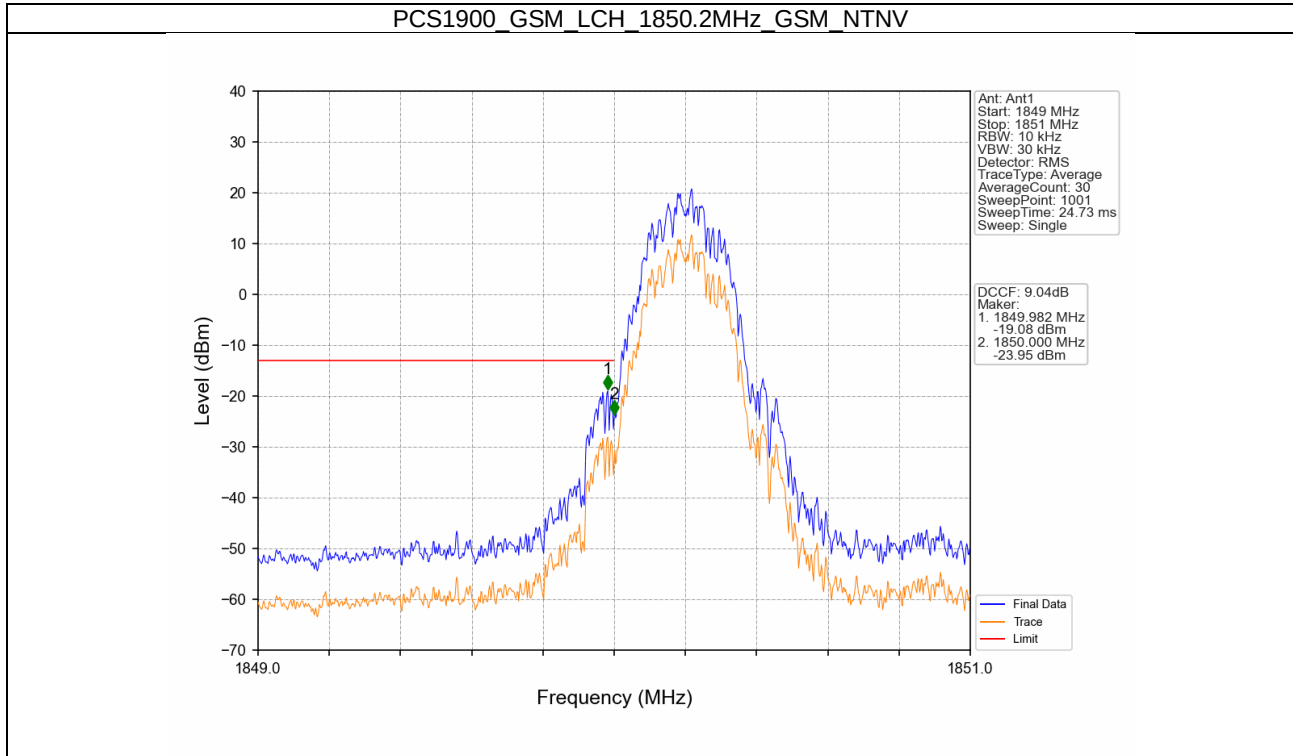
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Test Graph



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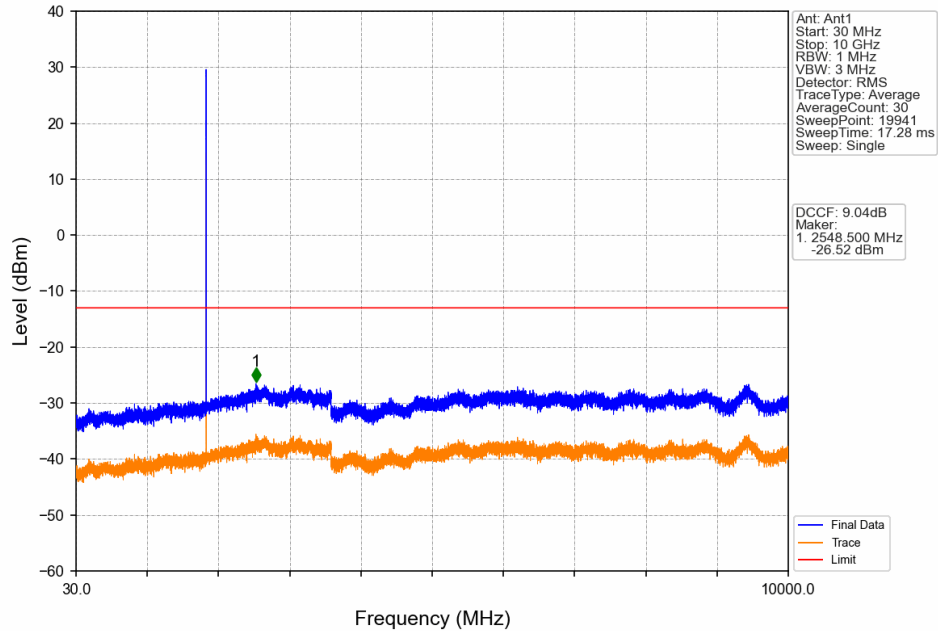
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PCS1900 GSM LCH 1850.2MHz GSM_NTNV



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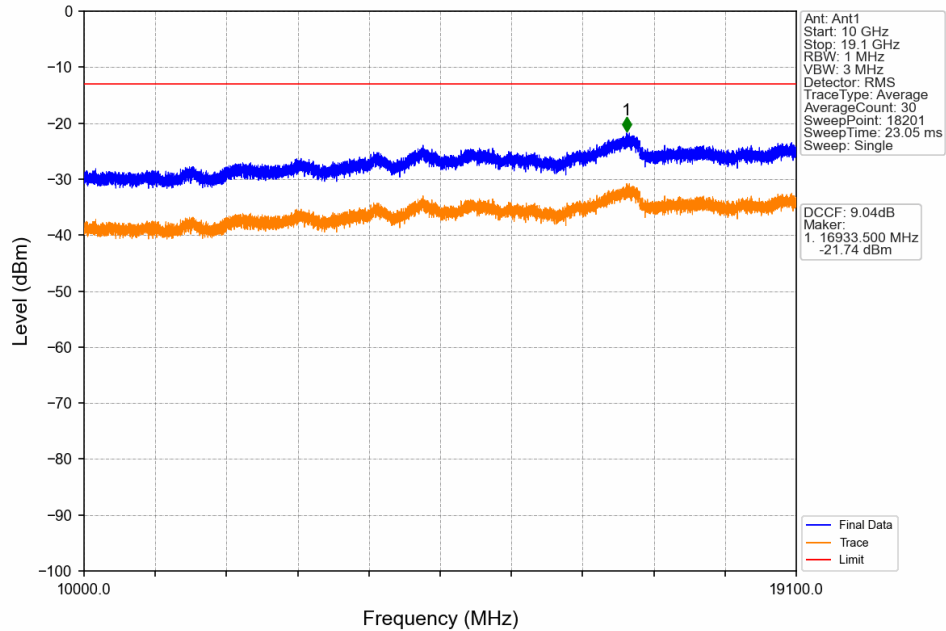
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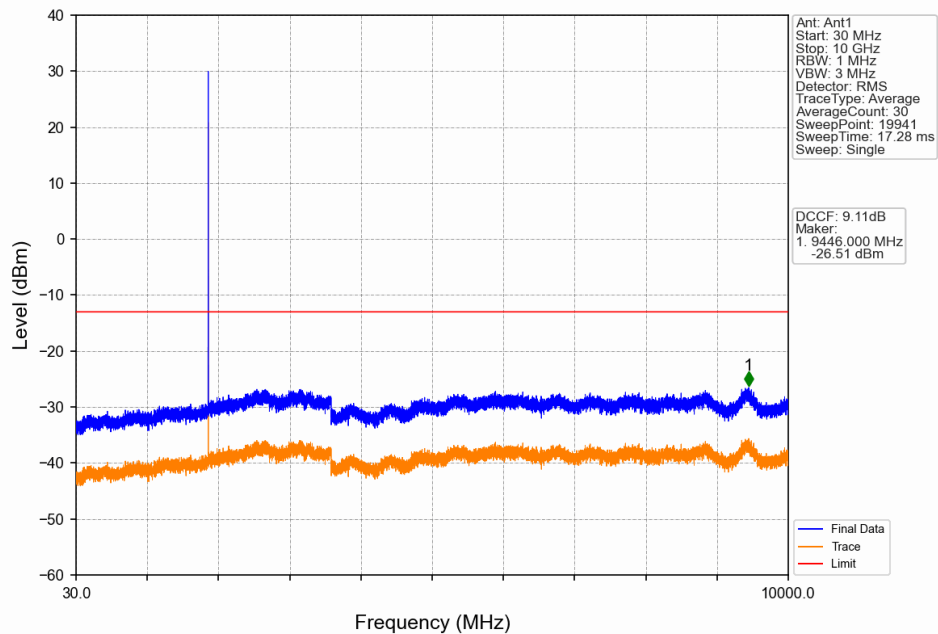
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PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



PCS1900_GSM_MCH_1880MHz_GSM_NTNV



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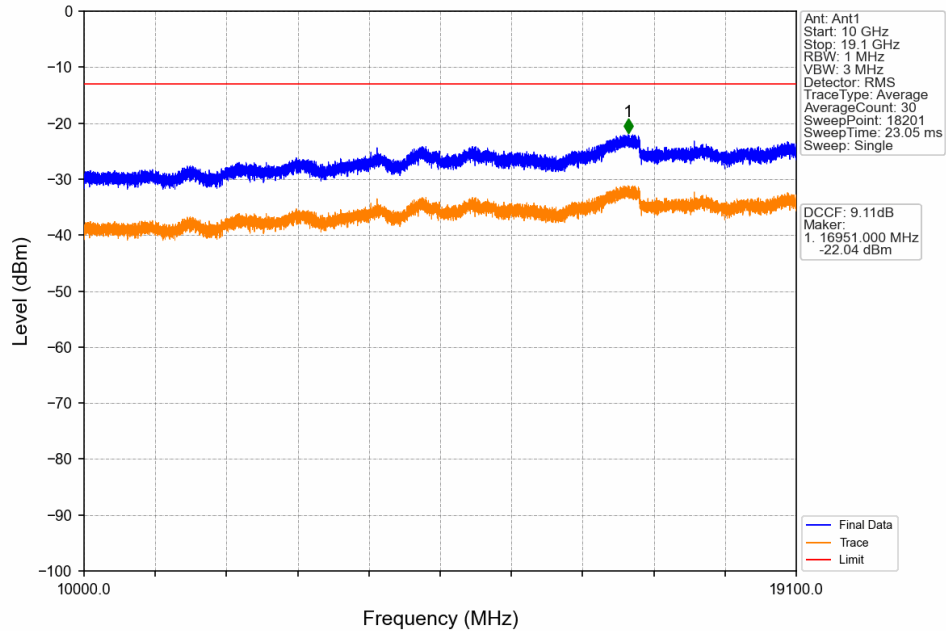
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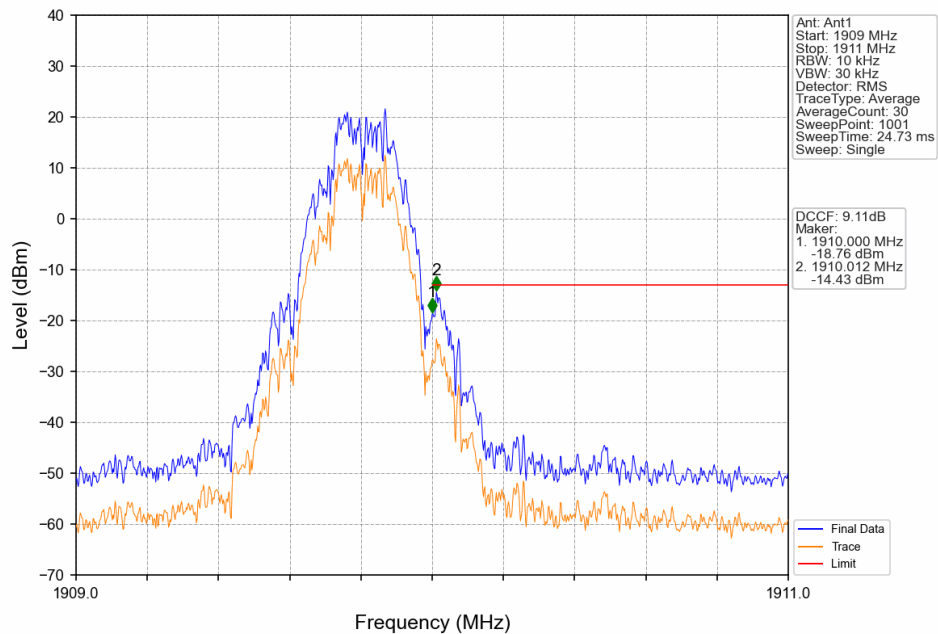
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PCS1900_GSM_MCH_1880MHz_GSM_NTNV



PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



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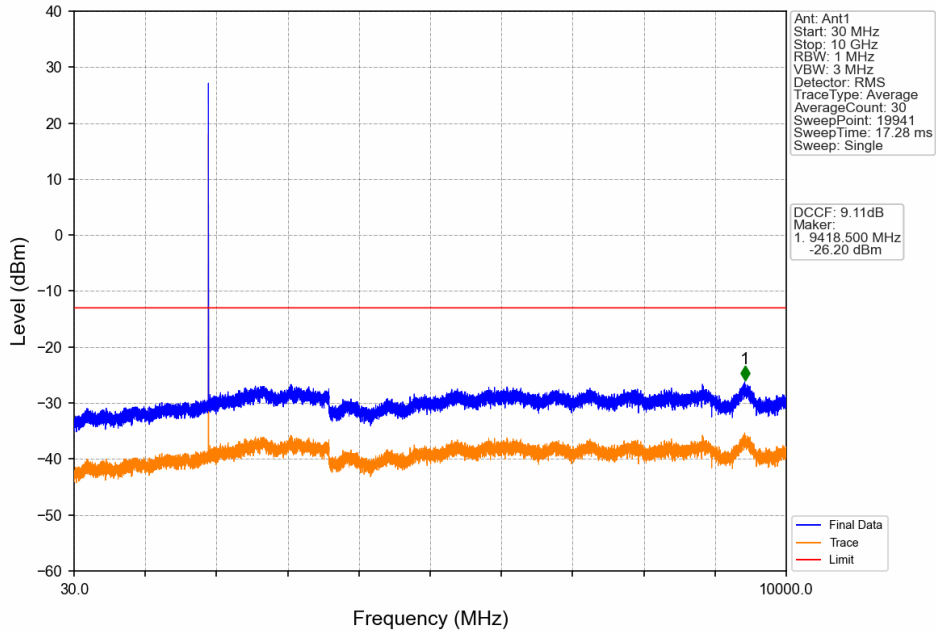
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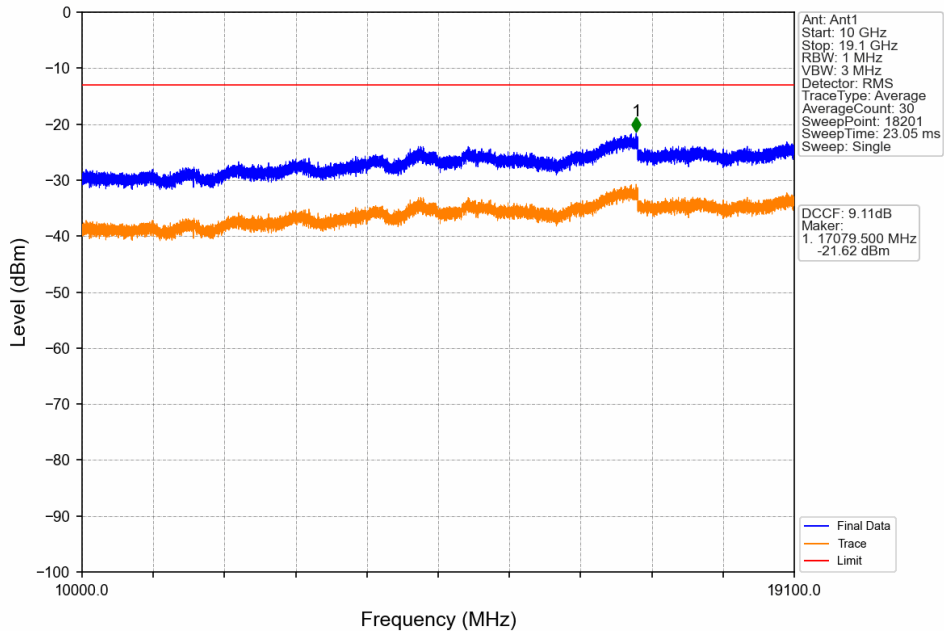
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PCS1900 GSM HCH 1909.8MHz GSM_NTNV



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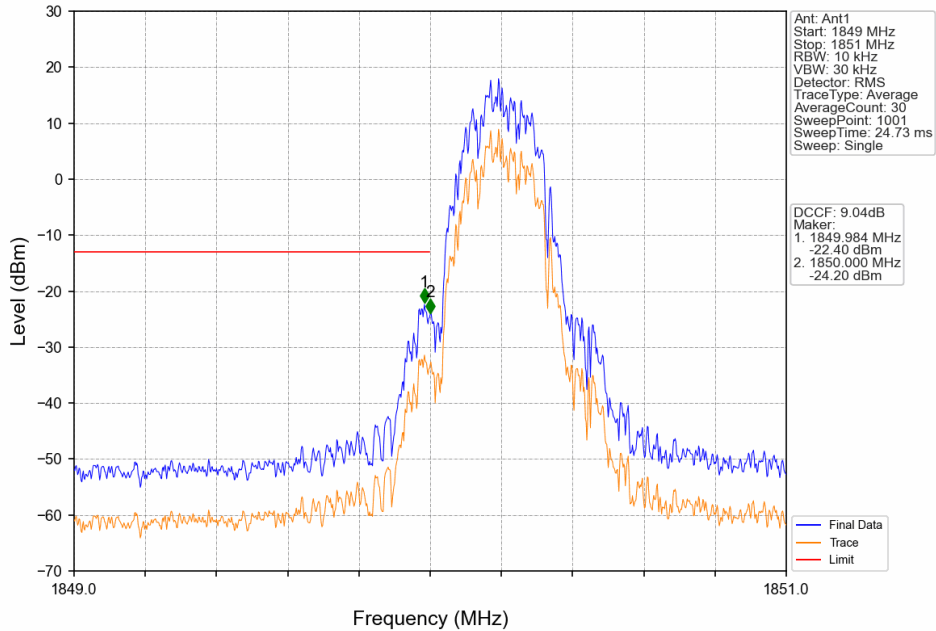
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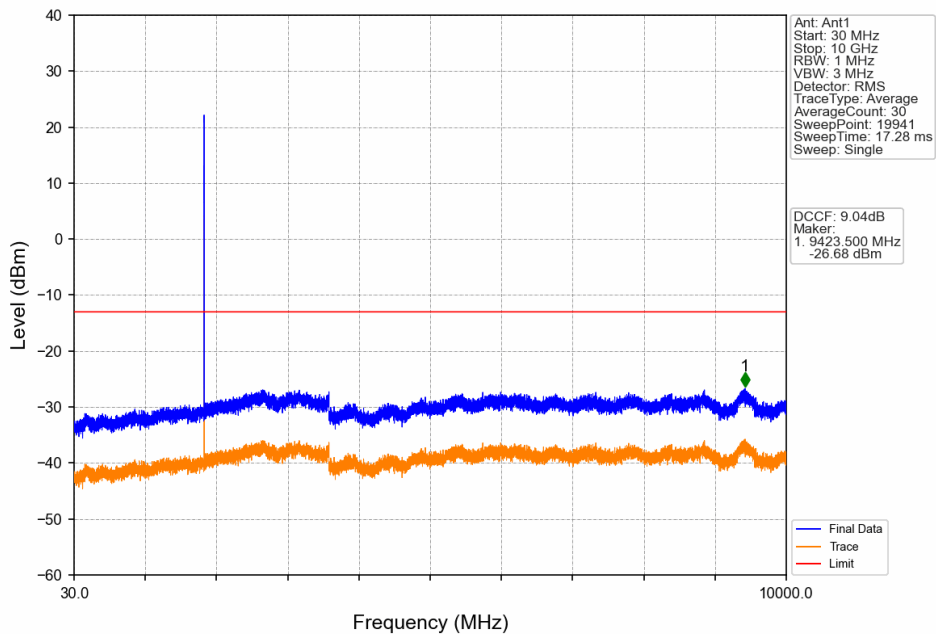
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Page: 24 of 32

PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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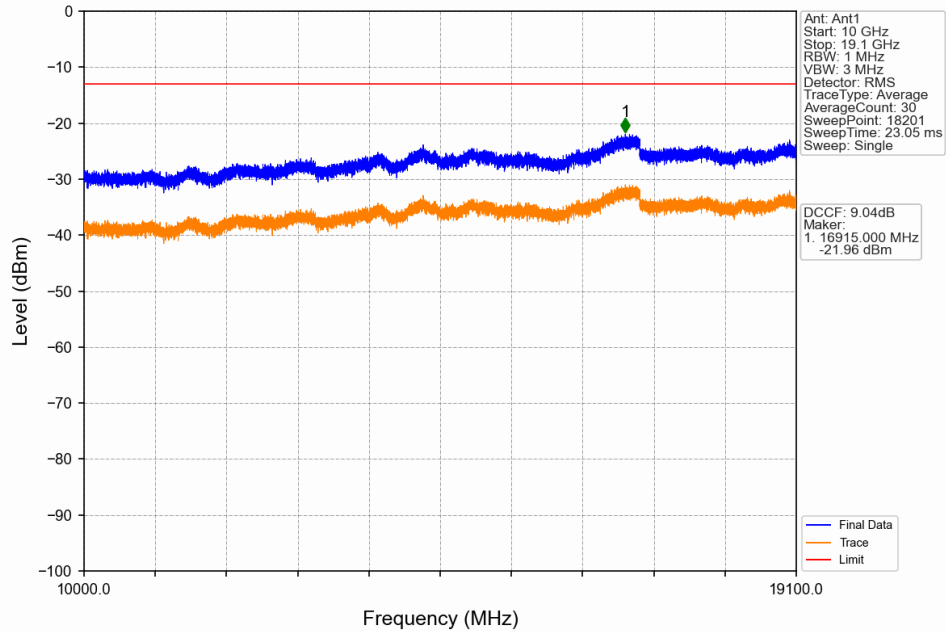
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Report No.: SEWM2311000471RG01

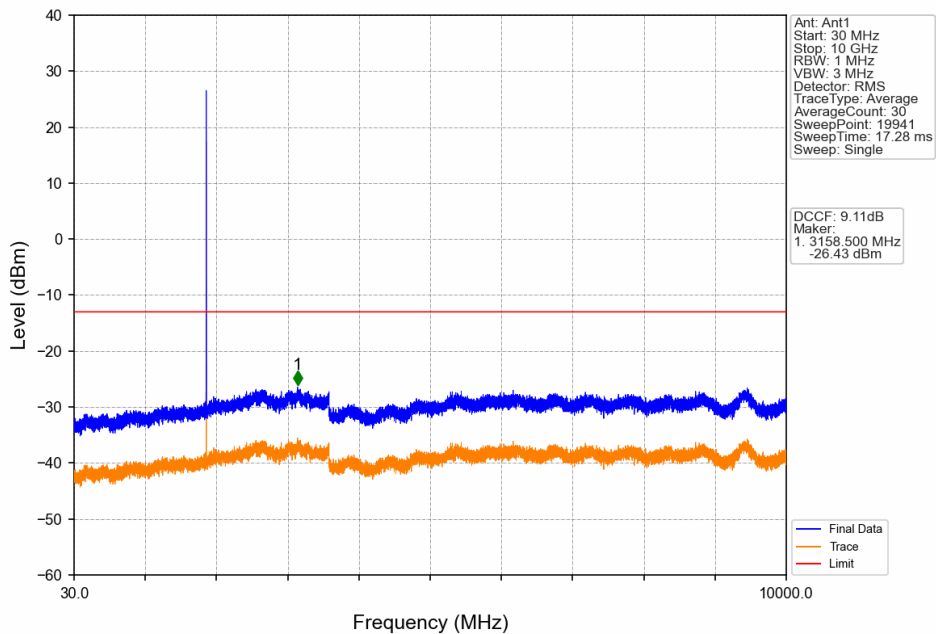
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Page: 25 of 32

PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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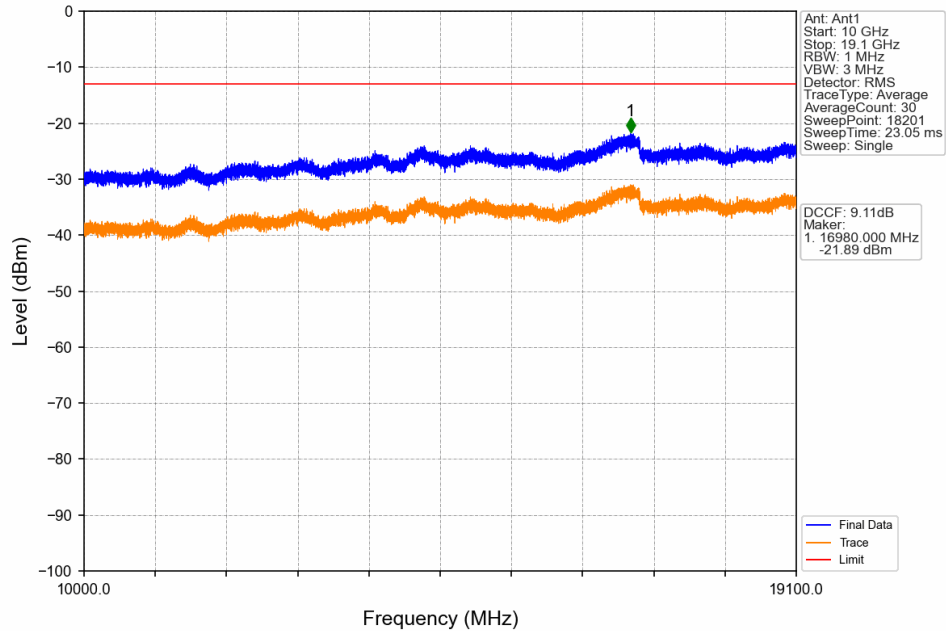
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Report No.: SEWM2311000471RG01

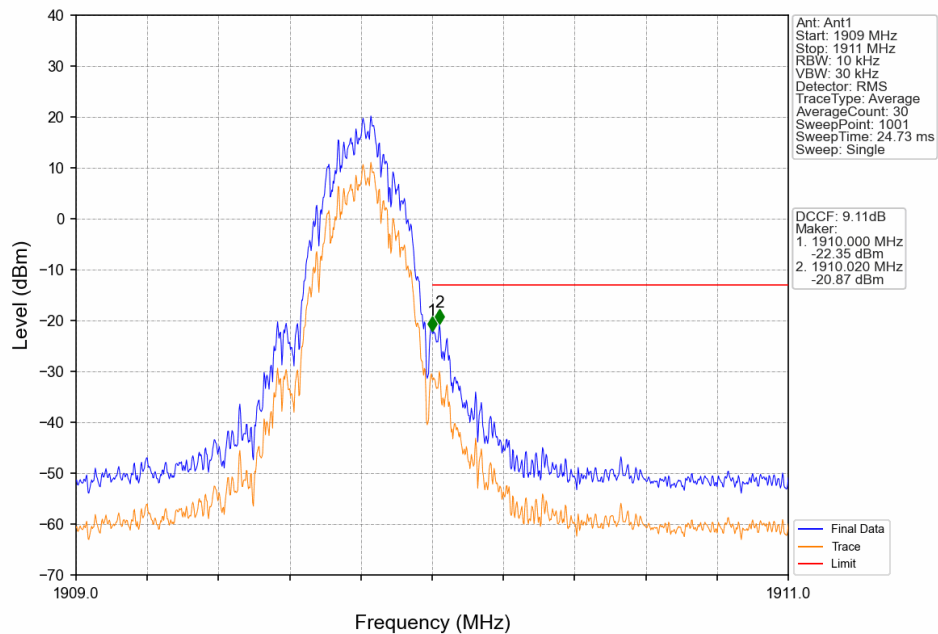
Rev.: 01

Page: 26 of 32

PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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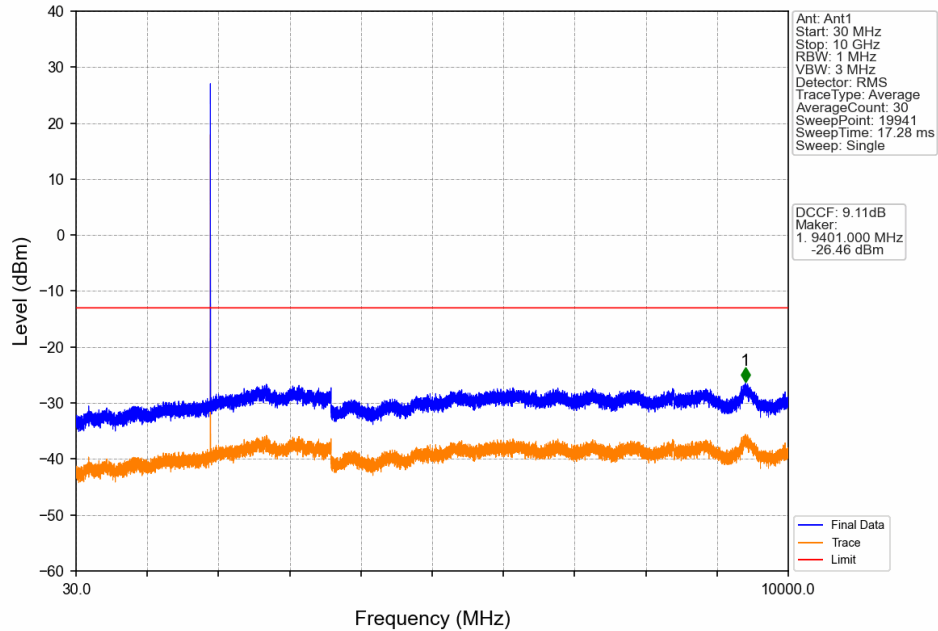
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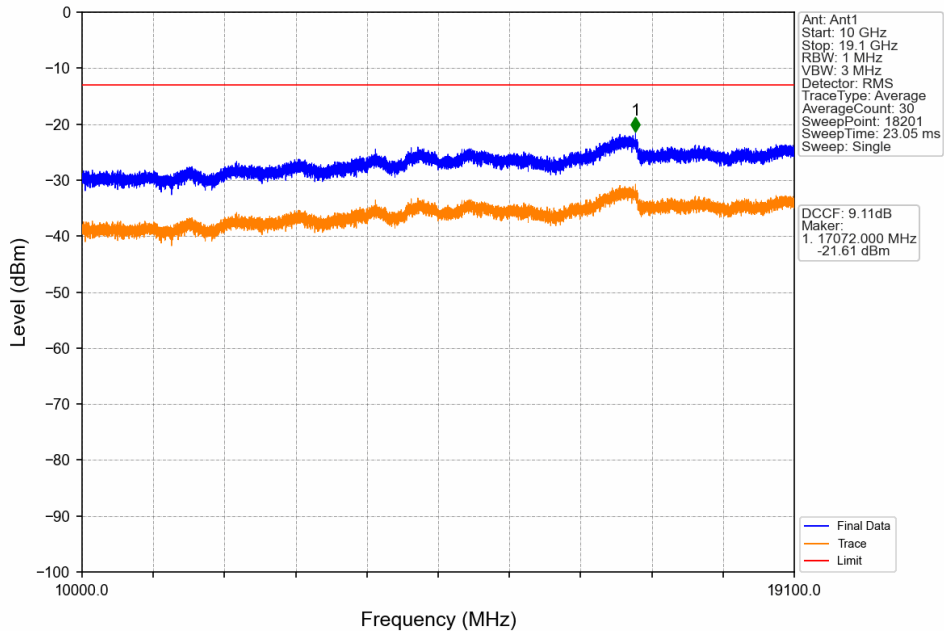
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Page: 27 of 32

PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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Report No.: SEWM2311000471RG01

Rev.: 01

Page: 28 of 32

Field Strength of Spurious Radiation

Test Band = GSM1900

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	34.42	-43.01	30.28	-73.57	-13.00	60.57	Horizontal
2	5550.6	38.53	-40.67	33.27	-64.12	-13.00	51.12	Horizontal
3	7400.8	31.01	-37.89	36.48	-65.66	-13.00	52.66	Horizontal
4	9251	28.01	-34.29	37.68	-63.87	-13.00	50.87	Horizontal
5	11101.2	27.00	-30.26	38.40	-60.12	-13.00	47.12	Horizontal
6	12951.4	27.85	-29.75	39.54	-57.62	-13.00	44.62	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5550.75	39.81	-40.67	33.27	-62.84	-13.00	49.84	Vertical
2	3760	34.13	-42.94	30.49	-73.59	-13.00	60.59	Vertical
3	7520	30.38	-37.77	36.62	-66.03	-13.00	53.03	Vertical
4	9400	28.87	-33.75	37.72	-62.42	-13.00	49.42	Vertical
5	11280	27.48	-30.09	38.40	-59.47	-13.00	46.47	Vertical
6	13160	26.73	-29.29	39.71	-58.11	-13.00	45.11	Vertical



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Rev.: 01

Page: 29 of 32

Test Band = GSM1900

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	33.93	-42.94	30.49	-73.79	-13.00	60.79	Horizontal
2	5640	37.05	-40.63	33.58	-65.26	-13.00	52.26	Horizontal
3	7520	31.15	-37.77	36.62	-65.26	-13.00	52.26	Horizontal
4	9400	31.06	-33.75	37.72	-60.23	-13.00	47.23	Horizontal
5	11280	27.52	-30.09	38.40	-59.43	-13.00	46.43	Horizontal
6	13160	26.58	-29.29	39.71	-58.26	-13.00	45.26	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	34.02	-42.94	30.49	-73.70	-13.00	60.70	Vertical
2	5640	33.20	-40.63	33.58	-69.11	-13.00	56.11	Vertical
3	7520	30.54	-37.77	36.62	-65.87	-13.00	52.87	Vertical
4	9400	29.64	-33.75	37.72	-61.65	-13.00	48.65	Vertical
5	11280	28.28	-30.09	38.40	-58.67	-13.00	45.67	Vertical
6	13160	28.23	-29.29	39.71	-56.61	-13.00	43.61	Vertical



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Rev.: 01

Page: 30 of 32

Test Band = GSM1900
Test Channel = High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6	34.65	-42.88	30.69	-72.81	-13.00	59.81	Horizontal
2	5729.5	32.22	-40.42	33.88	-69.58	-13.00	56.58	Horizontal
3	7639.2	32.03	-37.57	36.74	-64.06	-13.00	51.06	Horizontal
4	9549	32.42	-33.69	37.76	-58.76	-13.00	45.76	Horizontal
5	11458.8	26.75	-30.14	38.40	-60.25	-13.00	47.25	Horizontal
6	13368.6	27.92	-29.74	39.86	-57.22	-13.00	44.22	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6	35.45	-42.88	30.69	-72.01	-13.00	59.01	Vertical
2	5729.5	33.12	-40.42	33.88	-68.68	-13.00	55.68	Vertical
3	7639.2	31.53	-37.57	36.74	-64.56	-13.00	51.56	Vertical
4	9549	34.70	-33.69	37.76	-56.48	-13.00	43.48	Vertical
5	11458.8	29.24	-30.14	38.40	-57.76	-13.00	44.76	Vertical
6	13368.6	28.13	-29.74	39.86	-57.01	-13.00	44.01	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	15.303	0.0083	/	Pass
			3.89	8.104	0.0044	/	Pass
			4.48	9.298	0.0050	/	Pass
		-30	3.89	13.947	0.0075	/	Pass
		-20	3.89	14.561	0.0079	/	Pass
		-10	3.89	14.206	0.0077	/	Pass
		0	3.89	16.434	0.0089	/	Pass
		10	3.89	15.497	0.0084	/	Pass
		30	3.89	13.592	0.0073	/	Pass
		40	3.89	14.044	0.0076	/	Pass
		50	3.89	15.433	0.0083	/	Pass
	1880	20	3.4	22.342	0.0119	/	Pass
			3.89	18.112	0.0096	/	Pass
			4.48	19.856	0.0106	/	Pass
		-30	3.89	16.498	0.0088	/	Pass
		-20	3.89	22.439	0.0119	/	Pass
		-10	3.89	19.468	0.0104	/	Pass
		0	3.89	20.631	0.0110	/	Pass
		10	3.89	15.239	0.0081	/	Pass
		30	3.89	22.729	0.0121	/	Pass
		40	3.89	18.726	0.0100	/	Pass
		50	3.89	23.633	0.0126	/	Pass
	1909.8	20	3.4	20.695	0.0108	/	Pass
			3.89	17.176	0.0090	/	Pass
			4.48	17.241	0.0090	/	Pass
		-30	3.89	19.307	0.0101	/	Pass
		-20	3.89	23.892	0.0125	/	Pass
		-10	3.89	25.700	0.0135	/	Pass
		0	3.89	19.920	0.0104	/	Pass
		10	3.89	24.634	0.0129	/	Pass
		30	3.89	18.726	0.0098	/	Pass
		40	3.89	22.084	0.0116	/	Pass
		50	3.89	26.345	0.0138	/	Pass
EGPRS	1850.2	20	3.4	27.540	0.0149	/	Pass
			3.89	30.220	0.0163	/	Pass
			4.48	27.282	0.0147	/	Pass
		-30	3.89	27.701	0.0150	/	Pass
		-20	3.89	31.317	0.0169	/	Pass
		-10	3.89	32.609	0.0176	/	Pass
		0	3.89	32.415	0.0175	/	Pass
		10	3.89	33.028	0.0179	/	Pass
		30	3.89	35.288	0.0191	/	Pass
		40	3.89	29.348	0.0159	/	Pass



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Report No.: SEWM2311000471RG01

Rev.: 01

Page: 32 of 32

	1880	50	3.89	33.125	0.0179	/	Pass
		20	3.4	30.801	0.0164	/	Pass
			3.89	38.388	0.0204	/	Pass
			4.48	37.742	0.0201	/	Pass
			4.48	37.742	0.0201	/	Pass
		-30	3.89	35.224	0.0187	/	Pass
		-20	3.89	37.968	0.0202	/	Pass
		-10	3.89	39.453	0.0210	/	Pass
		0	3.89	40.099	0.0213	/	Pass
		10	3.89	36.838	0.0196	/	Pass
	1909.8	30	3.89	37.064	0.0197	/	Pass
		40	3.89	38.065	0.0202	/	Pass
		50	3.89	35.934	0.0191	/	Pass
		20	3.4	36.031	0.0189	/	Pass
			3.89	40.357	0.0211	/	Pass
			4.48	38.194	0.0200	/	Pass
			4.48	38.194	0.0200	/	Pass
		-30	3.89	39.227	0.0205	/	Pass
		-20	3.89	38.388	0.0201	/	Pass
		-10	3.89	40.454	0.0212	/	Pass
		0	3.89	37.032	0.0194	/	Pass
		10	3.89	36.031	0.0189	/	Pass
		30	3.89	33.190	0.0174	/	Pass
		40	3.89	34.029	0.0178	/	Pass
		50	3.89	34.094	0.0179	/	Pass

---End of Attachment---



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