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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	l. N	/lode	Frequency	Power	Gain	EIRP	(dBm)	Vardiet
⊏INV	Network	Subset	(MHz)	(dBm)	(dbi)	Result	Limit	Verdict
			1850.2	29.39	-5.40	23.99	<=33.01	Pass
	GSM	GSM	1880	29.19	-5.40	23.79	<=33.01	Pass
			1909.8	28.96	-5.40	23.56	<=33.01	Pass
		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
	GPRS	2 TX Slots	1880	26.11	-5.40	20.71	<=33.01	Pass
	GPRS	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
NTNV		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
		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
	EGPRS	2 TX Slots	1880	23.35	-5.40	17.95	<=33.01	Pass
	EGPRS	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: E	IRP=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

			Ва	nd: PCS1900			
Network	Frequency	Temp.	Voltage	Freq. Error	Freq. vs. F	Rated (ppm)	Verdict
Network	(MHz)	(°C)	(VDC)	(Hz)	Result	Limit	verdict
			3.27	26.18	0.01	-2.5 to 2.5	Pass
		20	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
	1850.2	-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
			3.27	43.65	0.02	-2.5 to 2.5	Pass
	1880	20	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
GSM		-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
		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
	1909.8	-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
			3.27	44.13	0.02	-2.5 to 2.5	Pass
		20	3.85	43.30	0.02	-2.5 to 2.5	Pass
GPRS	1850.2		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
	İ	-20	3.85	44.33	0.02	-2.5 to 2.5	Pass



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T		-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
-		- 00	3.27	42.36	0.02	-2.5 to 2.5	Pass
		20	3.85	45.72	0.02	-2.5 to 2.5	Pass
		-30 -20	4.43	50.08	0.03	-2.5 to 2.5	Pass
			3.85	47.17	0.03	-2.5 to 2.5	Pass
			3.85	47.82	0.03	-2.5 to 2.5	Pass
	1880	-10	3.85	45.39	0.02	-2.5 to 2.5	Pass
	1000		3.85	51.01	0.03	-2.5 to 2.5	Pass
		0 10 30 40	3.85	47.23	0.03	-2.5 to 2.5	Pass
			3.85	45.23	0.02	-2.5 to 2.5	Pass
			3.85	51.43	0.02	-2.5 to 2.5	Pass
		50	3.85	47.23	0.03	-2.5 to 2.5	Pass
-		30	3.27	60.60	0.03	-2.5 to 2.5	Pass
		20		60.00	0.03		
		20	3.85 4.43	62.47	0.03	-2.5 to 2.5 -2.5 to 2.5	Pass Pass
		-30					
			3.85	59.21	0.03	-2.5 to 2.5	Pass
	4000.0	-20	3.85	63.22	0.03	-2.5 to 2.5	Pass
	1909.8	-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
			3.27	52.56	0.03	-2.5 to 2.5	Pass
		20	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
	1850.2	-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
EGPRS		40	3.85	46.85	0.03	-2.5 to 2.5	Pass
_0, ,,		50	3.85	49.66	0.03	-2.5 to 2.5	Pass
			3.27	47.30	0.03	-2.5 to 2.5	Pass
		20	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
	1880	-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
İ		30	3.85	48.27	0.03	-2.5 to 2.5	Pass



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	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
		3.27	62.09	0.03	-2.5 to 2.5	Pass
	20	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
1909.8	-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	M	ode	Frequency	Modulation Characteristics		Verdict			
EINV	Network	Subset	(MHz)	Result	Limit	Verdict			
	GSM	GSM	1880	Refer To Test Graph		Pass			
NTNV	GPRS	1 TX Slot	1880	Refer To Test Graph		Pass			
	EGPRS	1 TX Slot	1880	Refer To Test Graph		Pass			



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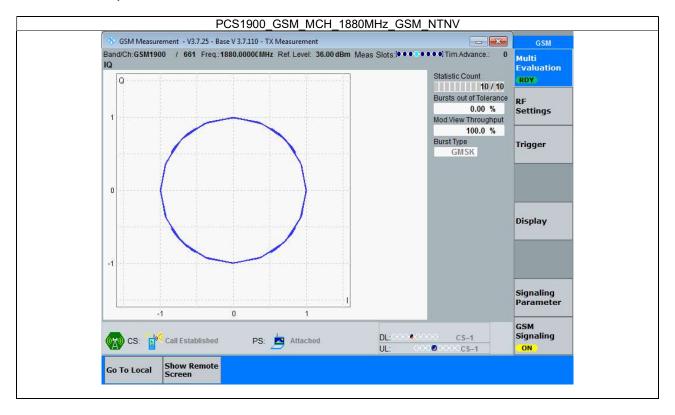
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3.1.2 Test Graph





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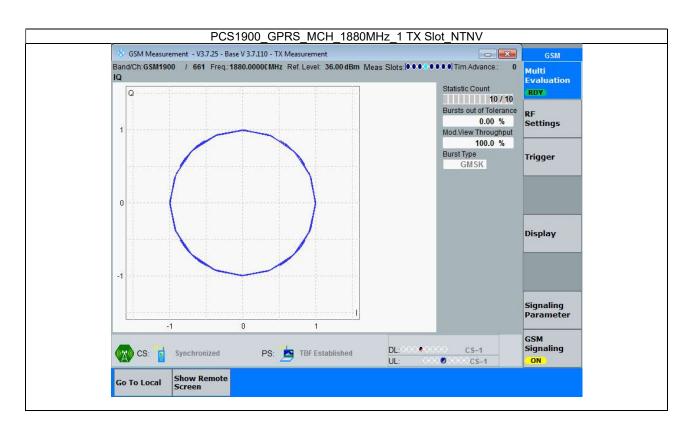
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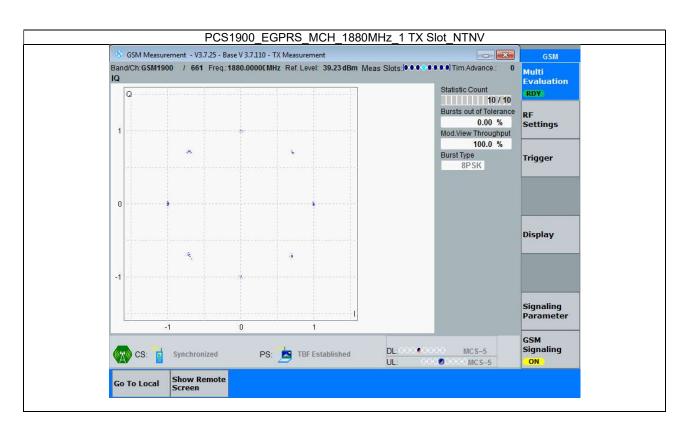
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4. 99% & 26dB Bandwidth

4.1 PCS1900_OBW

4.1.1 Test Result

			Band: PCS19	00	
ENV	IV	lode	Frequency	99% Occupied Bandwidth (MHz)	Verdict
EINV	Network Subset		(MHz)	Result	verdict
			1850.2	0.242	Pass
	GSM	GSM	1880	0.244	Pass
			1909.8	0.244	Pass
	GPRS	1 TX Slot	1850.2	0.244	Pass
NTNV			1880	0.241	Pass
			1909.8	0.247	Pass
		1 TX Slot	1850.2	0.246	Pass
	EGPRS		1880	0.246	Pass
			1909.8	0.244	Pass



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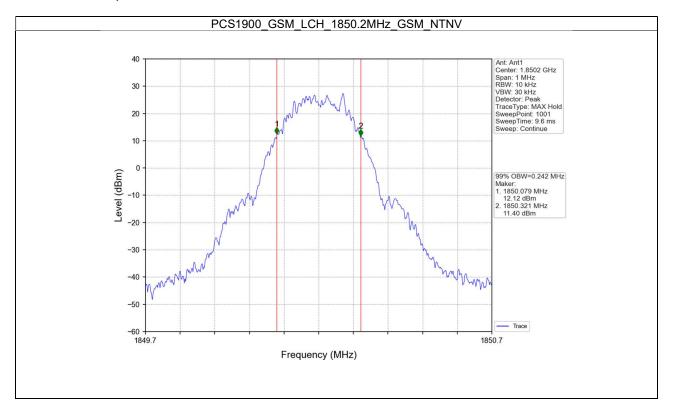
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4.1.2 Test Graph





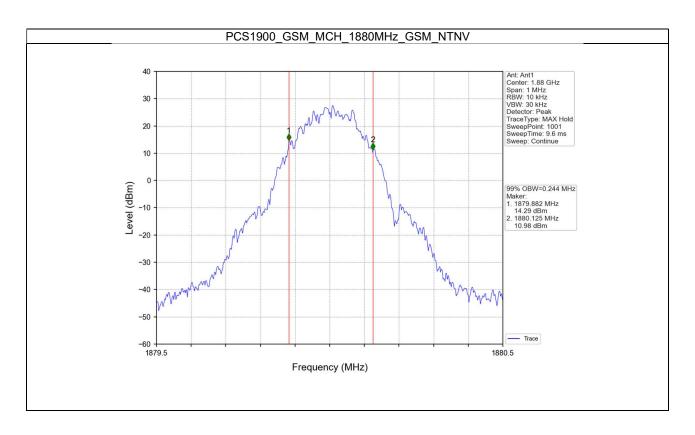
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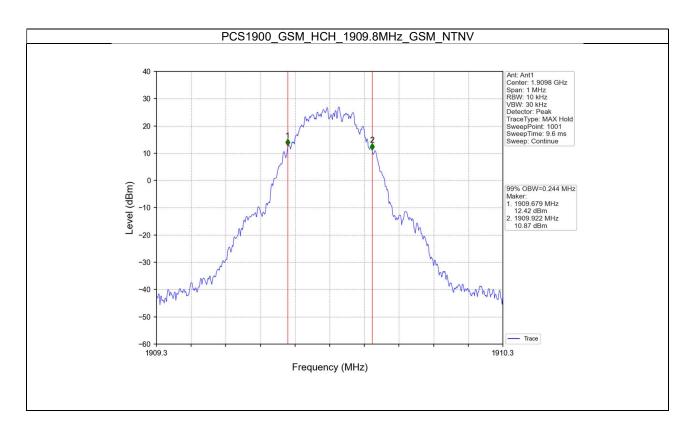
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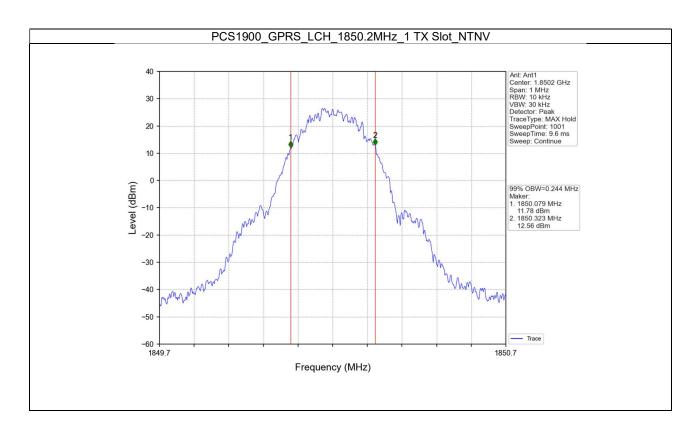
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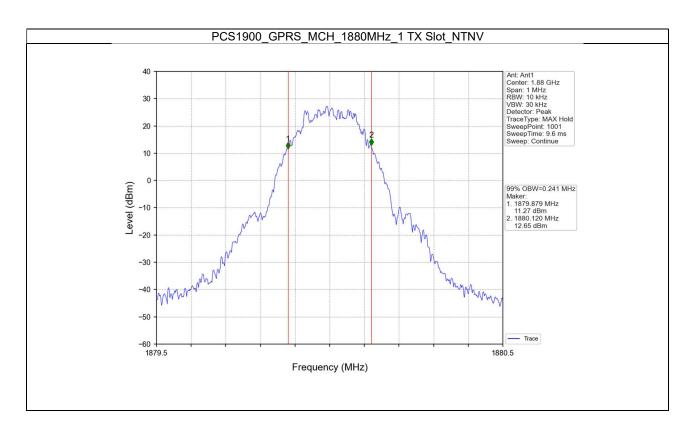
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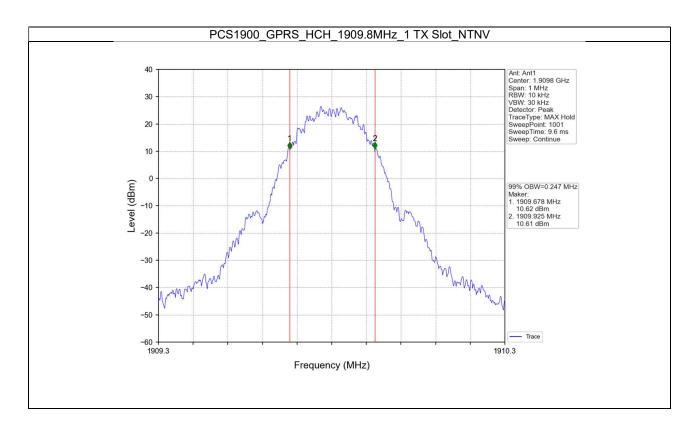
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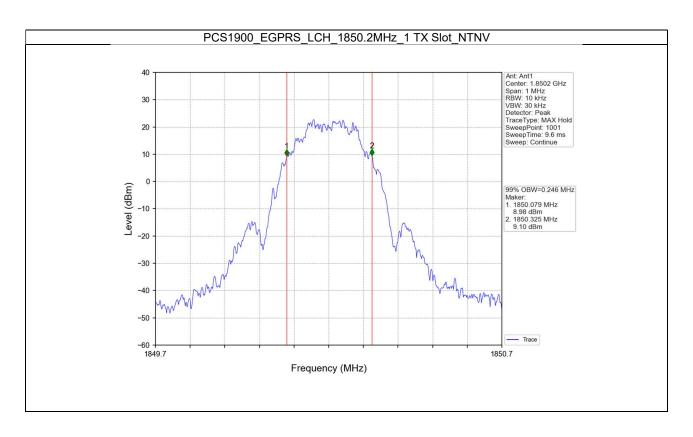
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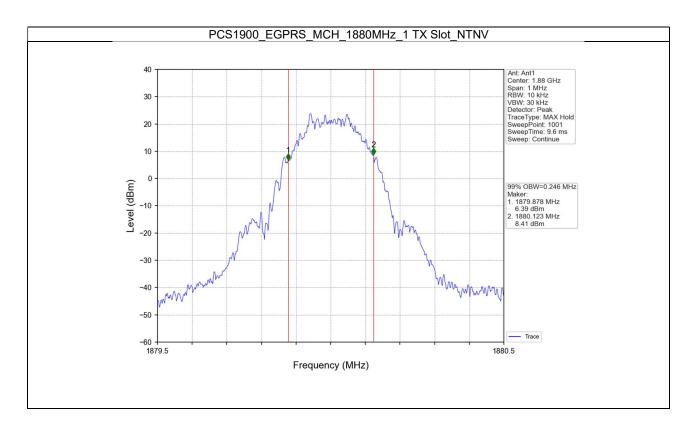
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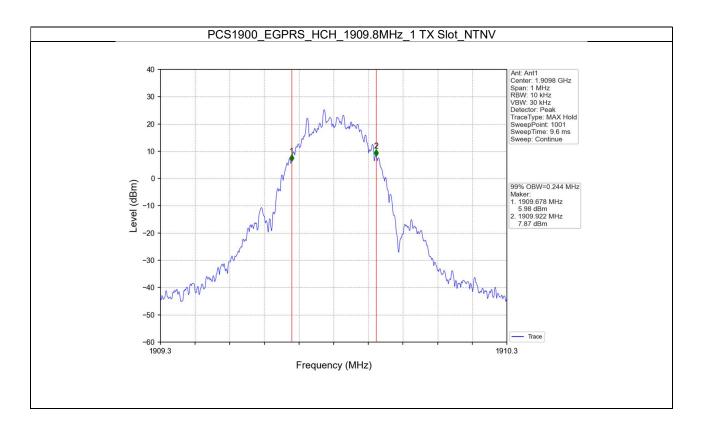
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4.2 PCS1900_XDB

4.2.1 Test Result

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

4.2.2 Test Graph

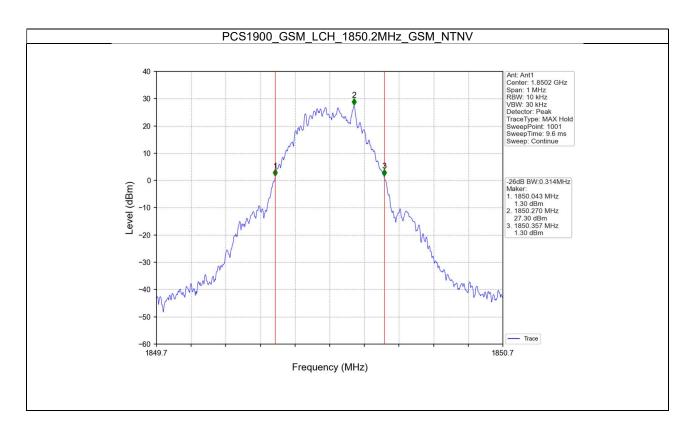


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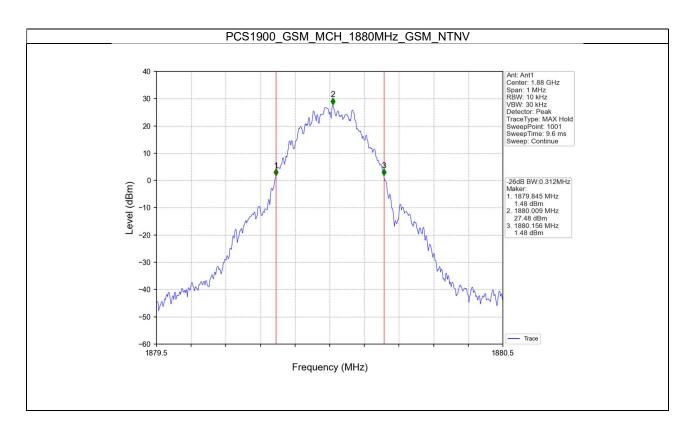
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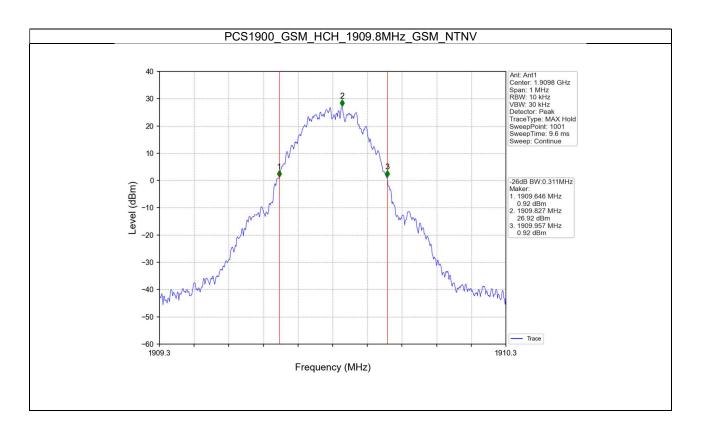
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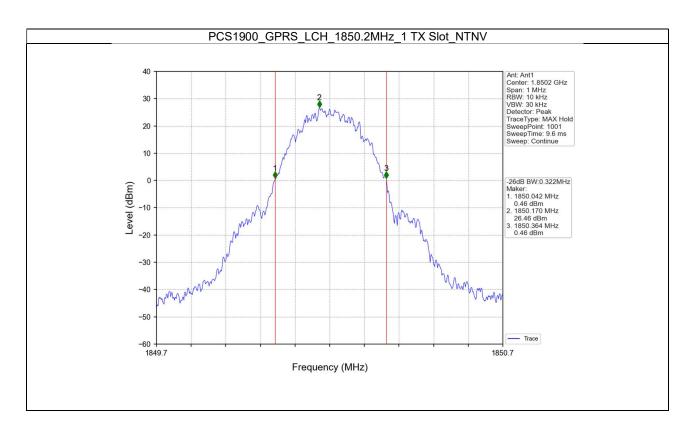
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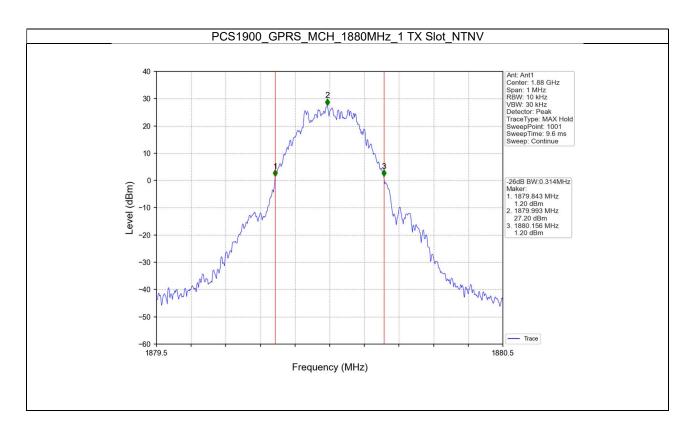
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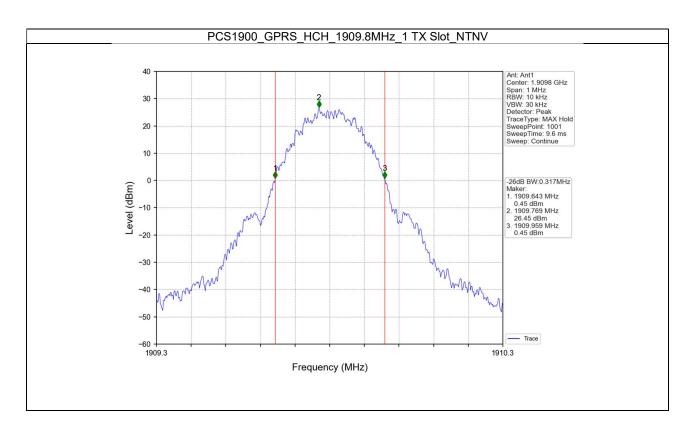
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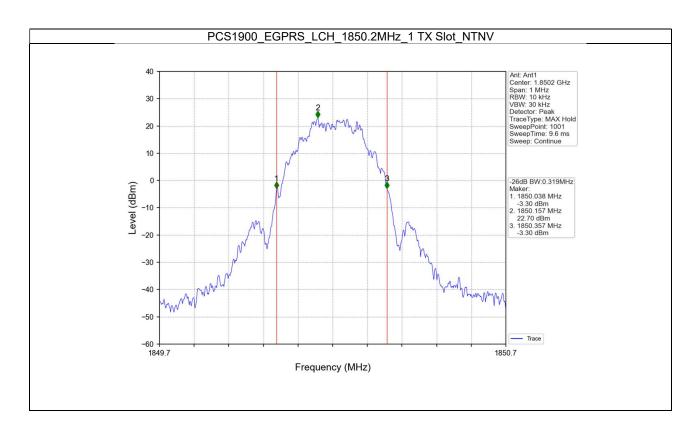
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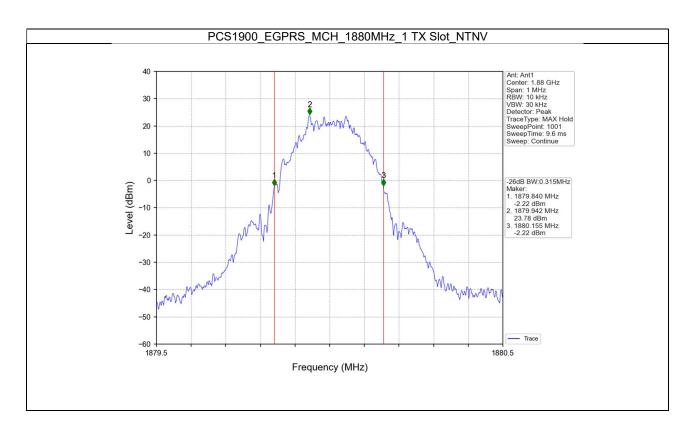
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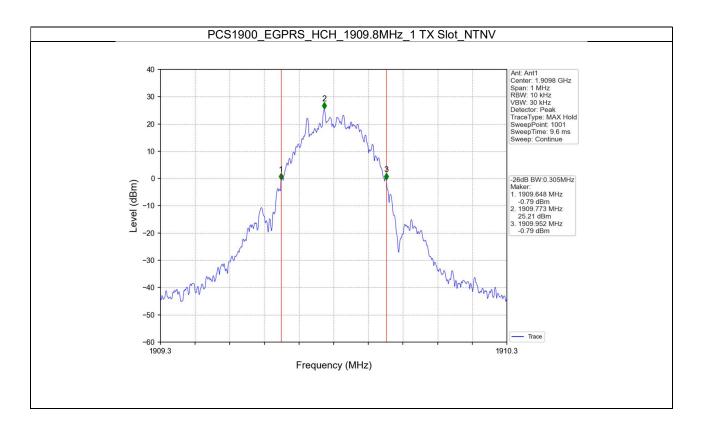
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5. Peak-Average Ratio

5.1 PCS1900

5.1.1 Test Result

			Band: PCS19	00		
ENV	N	/lode	Frequency	Peak-Averag	Verdict	
LINV	Network	Subset	(MHz)	Result	Limit	Verdict
		GSM	1850.2	9.59	<=13	Pass
	GSM		1880	9.36	<=13	Pass
			1909.8	9.48	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.62	<=13	Pass
NTNV			1880	3.71	<=13	Pass
			1909.8	3.72	<=13	Pass
		4 TX Slots	1850.2	6.77	<=13	Pass
	EGPRS		1880	6.76	<=13	Pass
			1909.8	6.69	<=13	Pass



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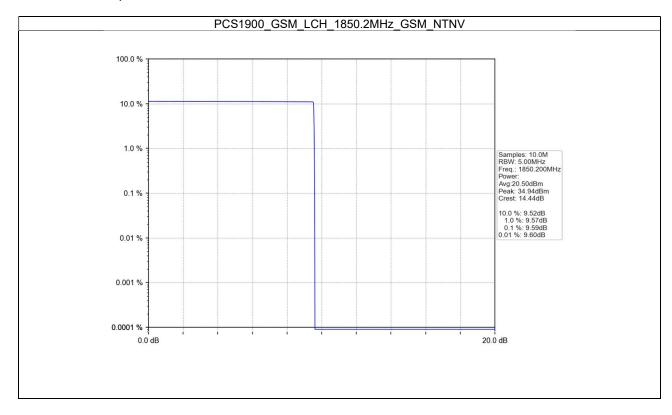
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5.1.2 Test Graph





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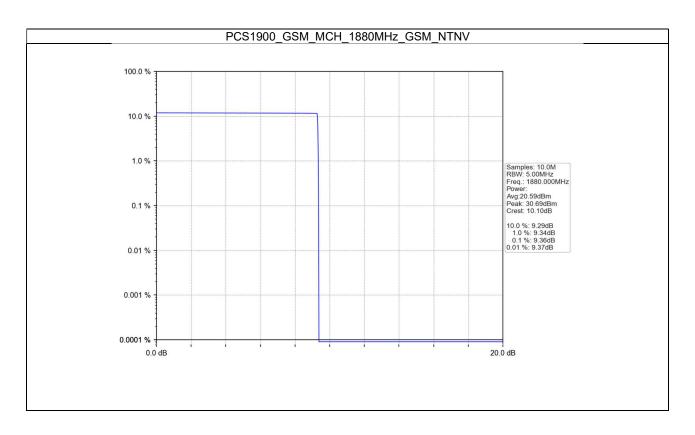
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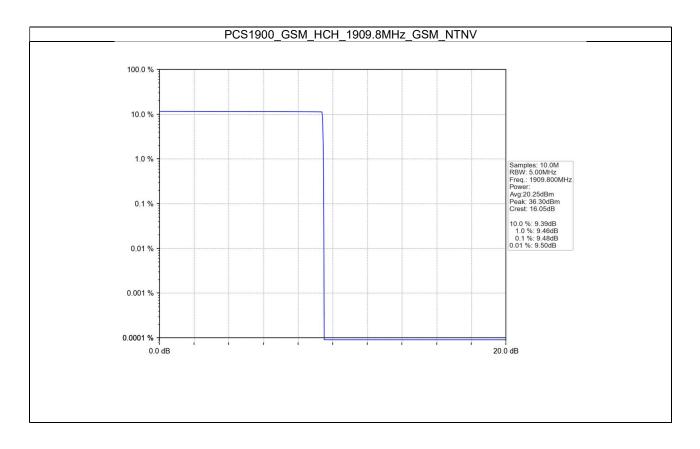
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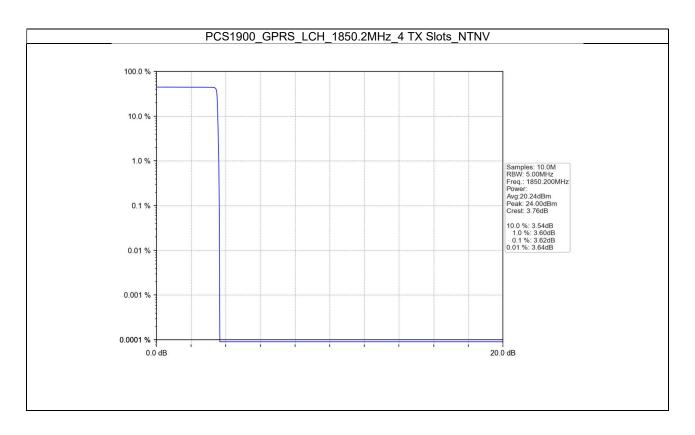
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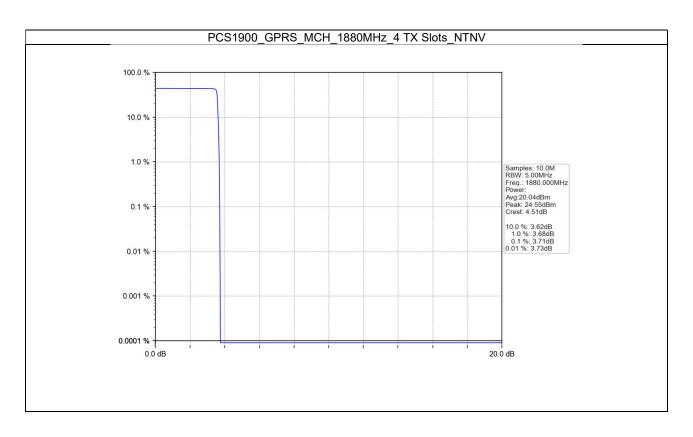
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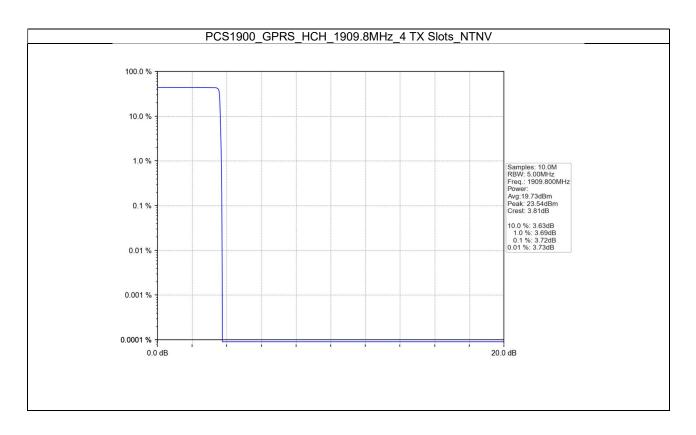
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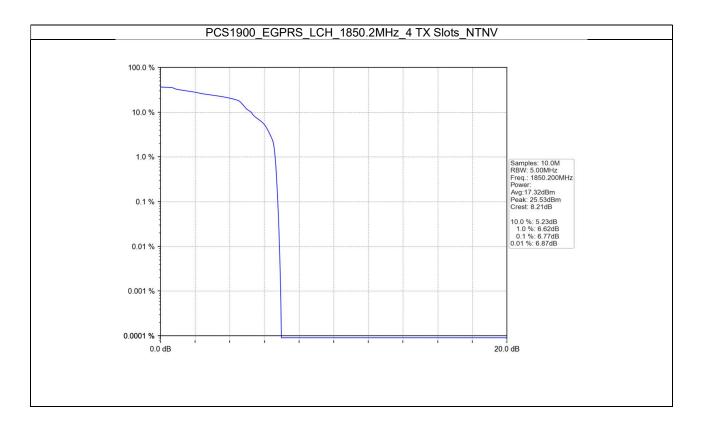
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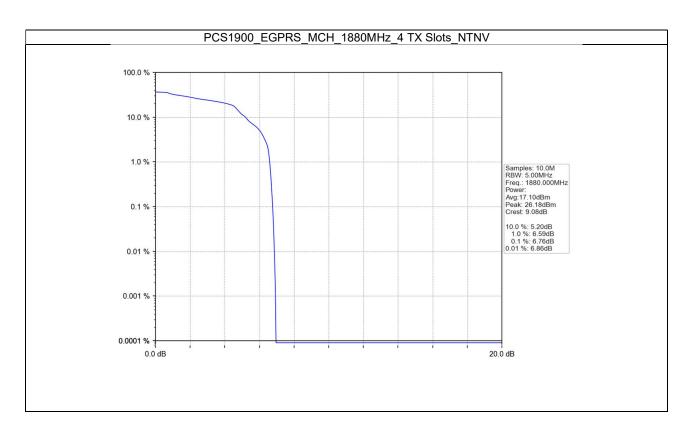
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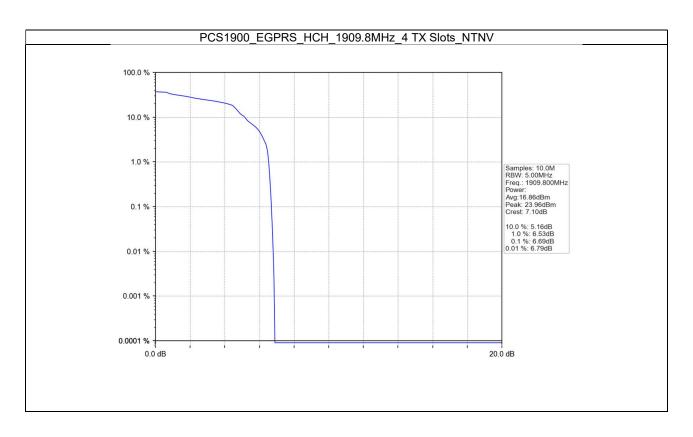
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6. Spurious Emission

6.1 PCS1900

6.1.1 Test Result

	Band: PCS1900										
ENV	M	lode	Frequency	Spurious Emiss	sion	Verdict					
⊏INV	Network	Subset	(MHz)	Result	Limit	verdict					
			1850.2	Refer To Test G	raph	Pass					
	GSM	GSM	1880	Refer To Test G	raph	Pass					
			1909.8	Refer To Test G	raph	Pass					
		1 TX Slot	1850.2	Refer To Test G	raph	Pass					
NTNV	GPRS		1880	Refer To Test G	raph	Pass					
			1909.8	Refer To Test G	raph	Pass					
			1850.2	Refer To Test G	raph	Pass					
	EGPRS	1 TX Slot	1880	Refer To Test G	raph	Pass					
			1909.8	Refer To Test G	raph	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.



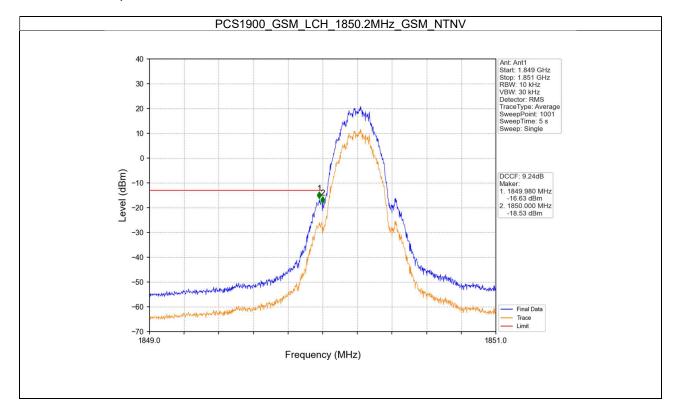
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6.1.2 Test Graph





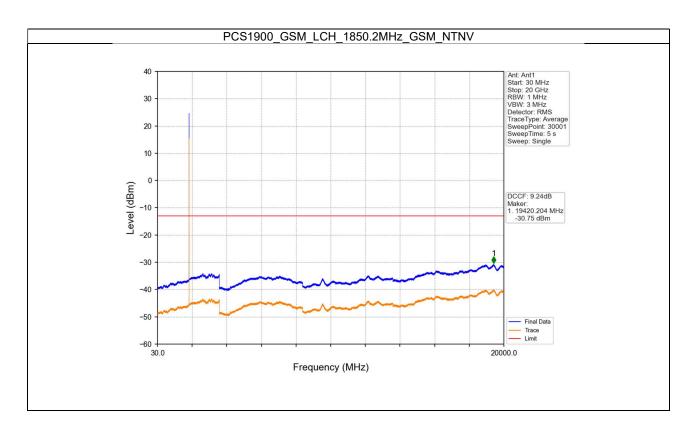
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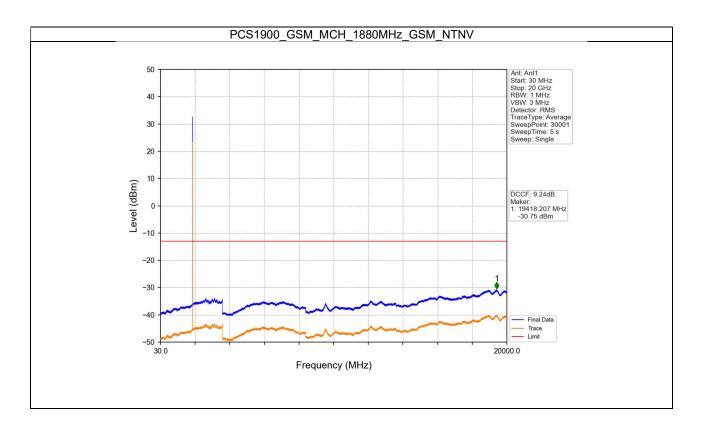
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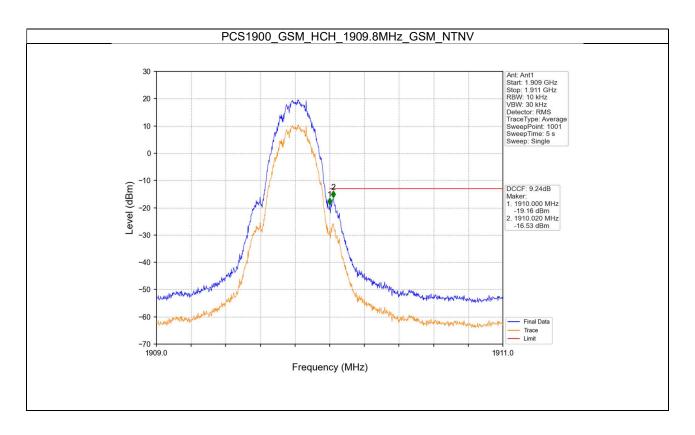
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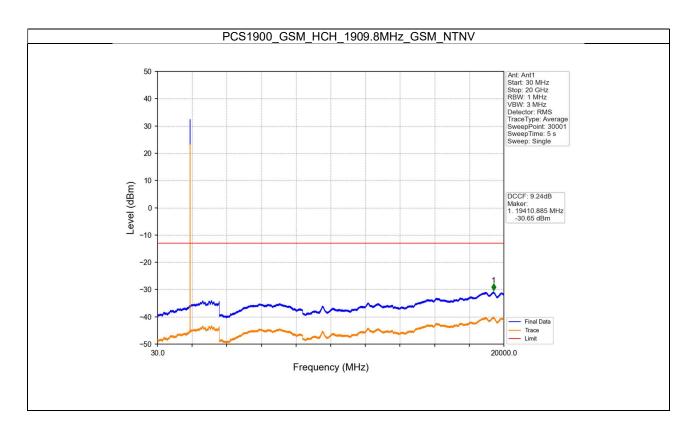
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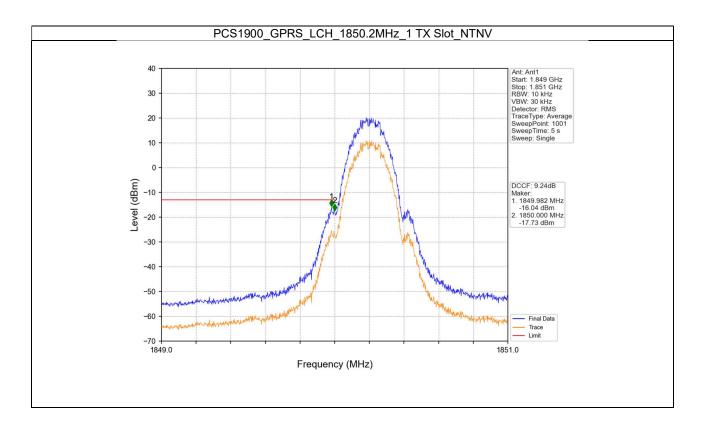
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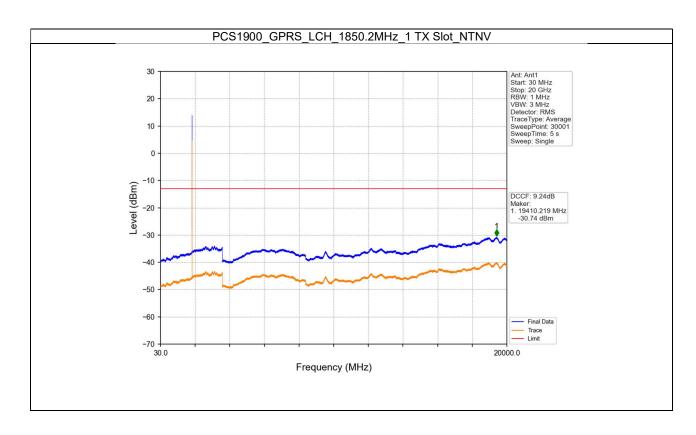
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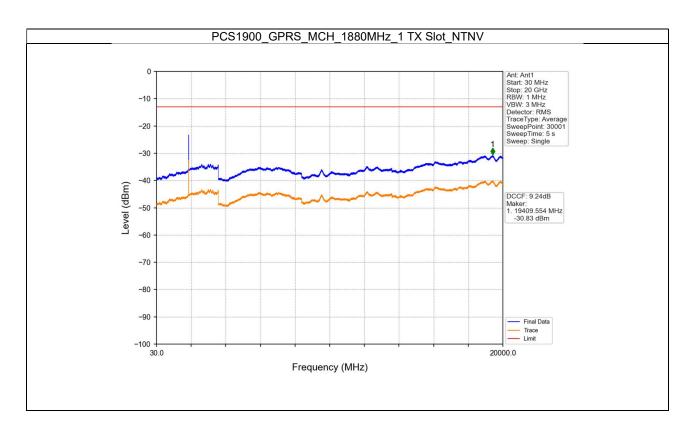
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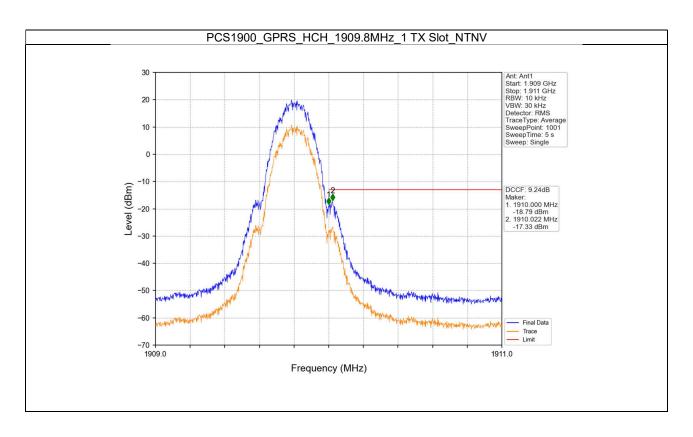
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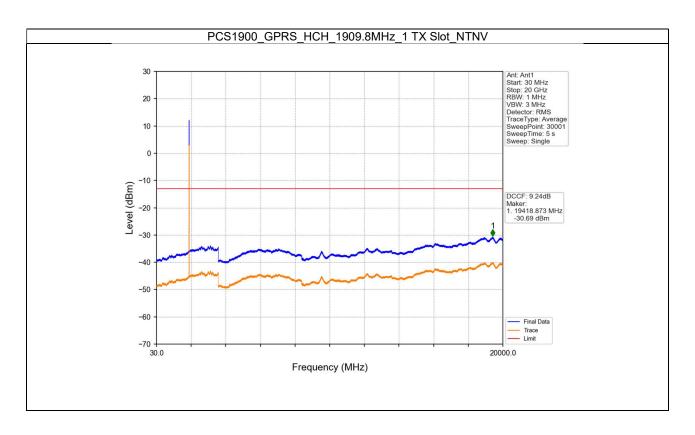
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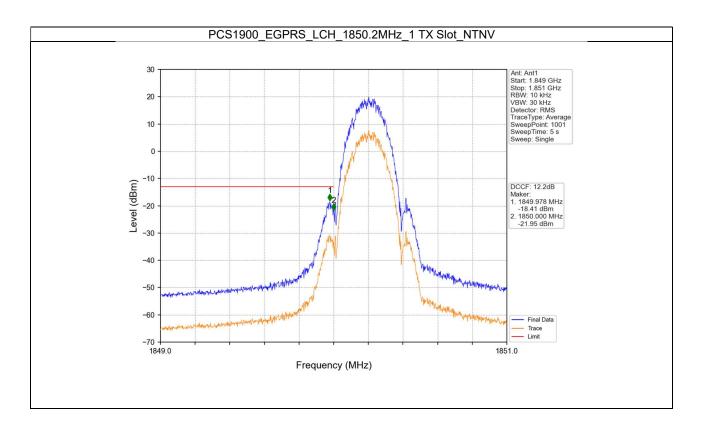
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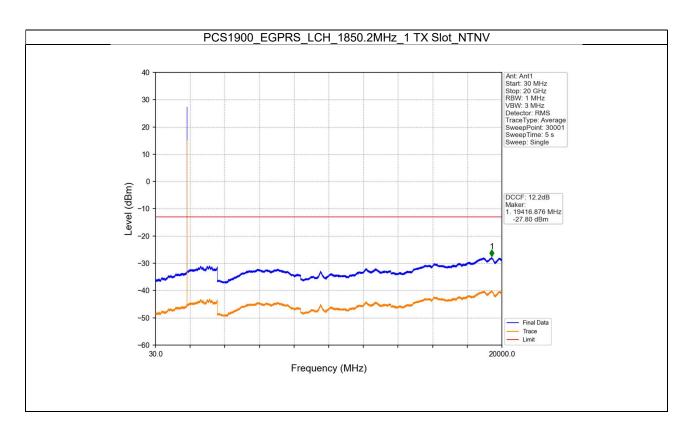
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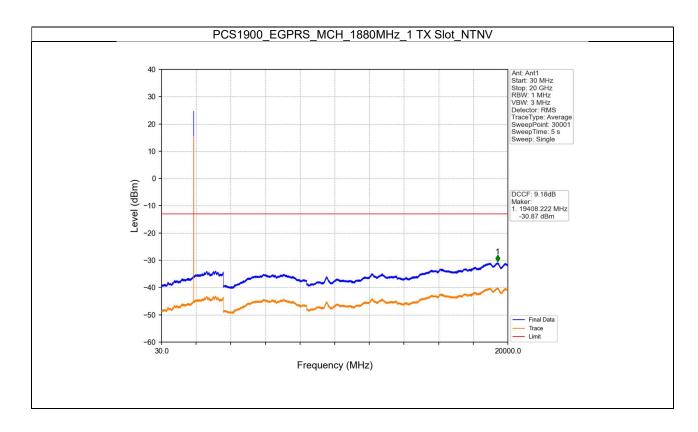
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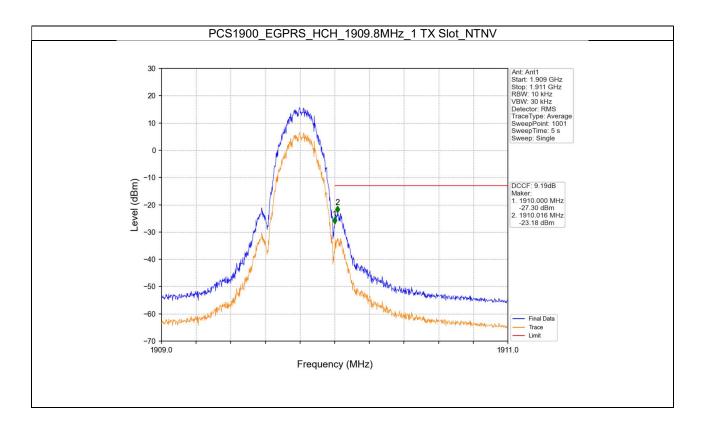
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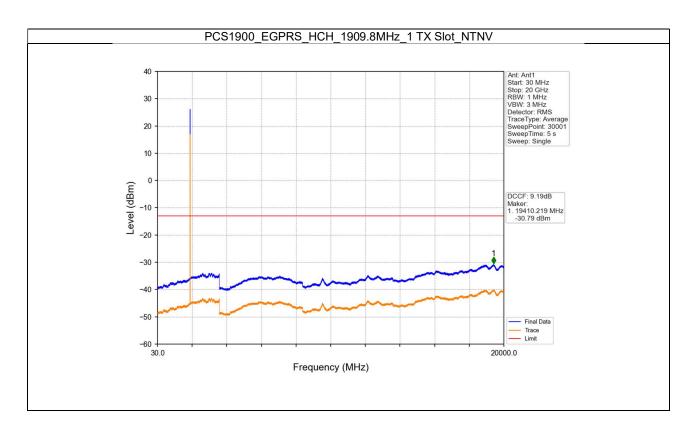
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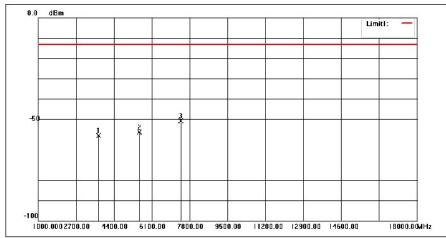
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7. Field Strength of Spurious Radiation

Up Antenna

PCS 1900-Low channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3700.400	-53.67	-4.46	-58.13	-13.00	-45.13	peak
2	5550.600	-56.32	-0.13	-56.45	-13.00	-43.45	peak
3	7400.800	-55.38	4.43	-50.95	-13.00	-37.95	peak



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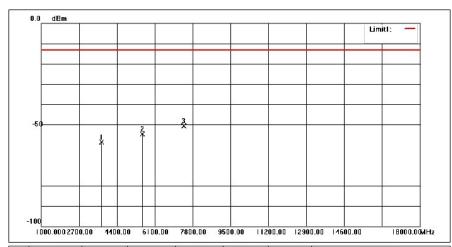
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	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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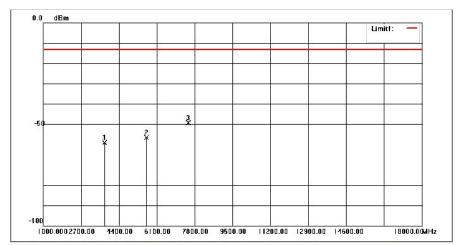
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PCS 1900-Middle channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-54.76	-4.47	-59.23	-13.00	-46.23	peak
2	5640.000	-56.67	-0.02	-56.69	-13.00	-43.69	peak
3	7520.000	-54.51	5.16	-49.35	-13.00	-36.35	peak



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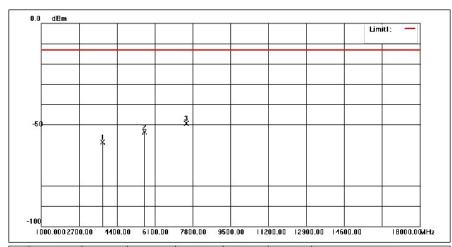
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	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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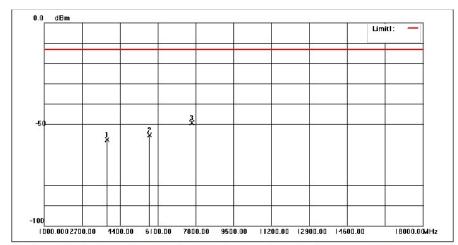
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PCS 1900-High channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3819.600	-53.17	-4.48	-57.65	-13.00	-44.65	peak
2	5729.400	-55.54	0.18	-55.36	-13.00	-42.36	peak
3	7639.200	-54.67	5.29	-49.38	-13.00	-36.38	peak



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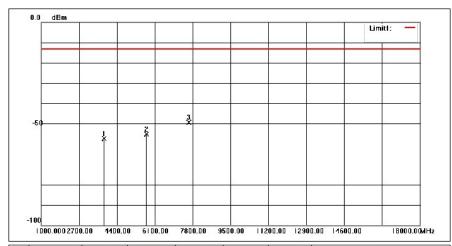
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3819.600	-53.00	-4.48	-57.48	-13.00	-44.48	peak
2	5729.400	-55.26	0.18	-55.08	-13.00	-42.08	peak
3	7639.200	-54.78	5.29	-49.49	-13.00	-36.49	peak



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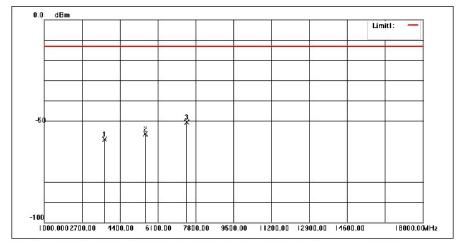


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Down Antenna

PCS 1900-Low channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3700.400	-54.68	-4.46	-59.14	-13.00	-46.14	peak
2	5550.600	-56.22	-0.13	-56.35	-13.00	-43.35	peak
3	7400.800	-54.98	4.43	-50.55	-13.00	-37.55	peak



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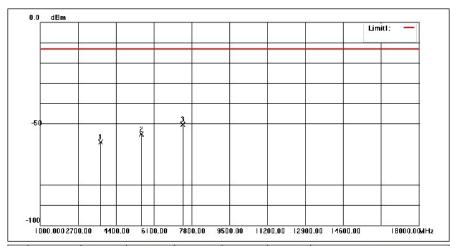
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	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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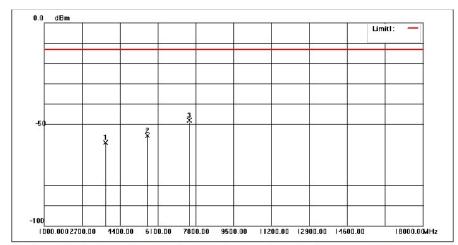
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PCS 1900-Middle channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-54.67	-4.47	-59.14	-13.00	-46.14	peak
2	5640.000	-55.69	-0.02	-55.71	-13.00	-42.71	peak
3	7520.000	-53.18	5.16	-48.02	-13.00	-35.02	peak



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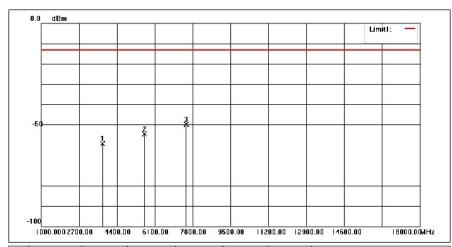
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-54.96	-4.47	-59.43	-13.00	-46.43	peak
2	5640.000	-54.54	-0.02	-54.56	-13.00	-41.56	peak
3	7520.000	-54.95	5.16	-49.79	-13.00	-36.79	peak



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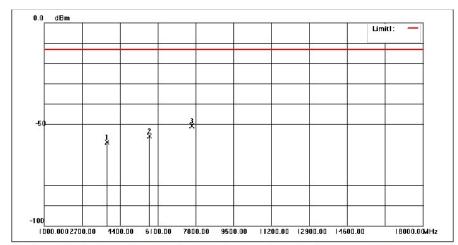
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PCS 1900-High channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3819.600	-54.45	-4.48	-58.93	-13.00	-45.93	peak
2	5729.400	-56.15	0.18	-55.97	-13.00	-42.97	peak
3	7639.200	-56.15	5.29	-50.86	-13.00	-37.86	peak



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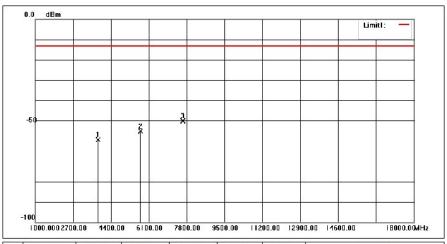
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3819.600	-54.79	-4.48	-59.27	-13.00	-46.27	peak
2	5729.400	-55.38	0.18	-55.20	-13.00	-42.20	peak
3	7639.200	-55.31	5.29	-50.02	-13.00	-37.02	peak

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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