



Appendix for KSEM210400048201

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: PCS1900											
Test Mode		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
EGPRS	1 TX Slot	18.27	19.19	19.65	/	2.00	20.27	21.19	21.65	33.01	PASS
	2 TX Slots	17.97	18.90	18.96	/	2.00	19.97	20.90	20.96	33.01	PASS
	3 TX Slots	17.31	18.06	17.44	/	2.00	19.31	20.06	19.44	33.01	PASS
	4 TX Slots	16.95	17.43	16.68	/	2.00	18.95	19.43	18.68	33.01	PASS
GPRS	1 TX Slot	19.20	19.18	19.67	/	2.00	21.20	21.18	21.67	33.01	PASS
	2 TX Slots	18.03	18.87	18.97	/	2.00	20.03	20.87	20.97	33.01	PASS
	3 TX Slots	17.37	18.10	17.45	/	2.00	19.37	20.10	19.45	33.01	PASS
	4 TX Slots	17.00	17.48	16.68	/	2.00	19.00	19.48	18.68	33.01	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)											

2. Frequency stability

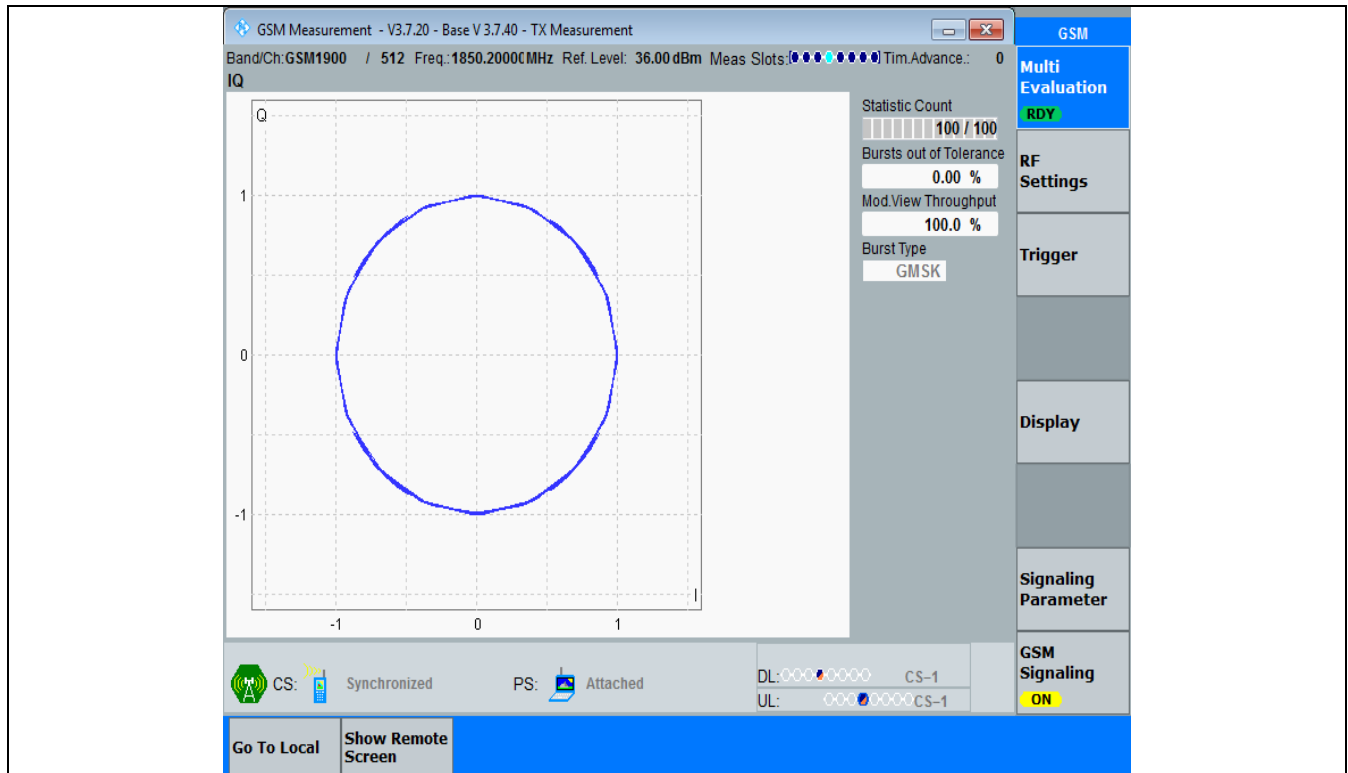
2.1 Test Result

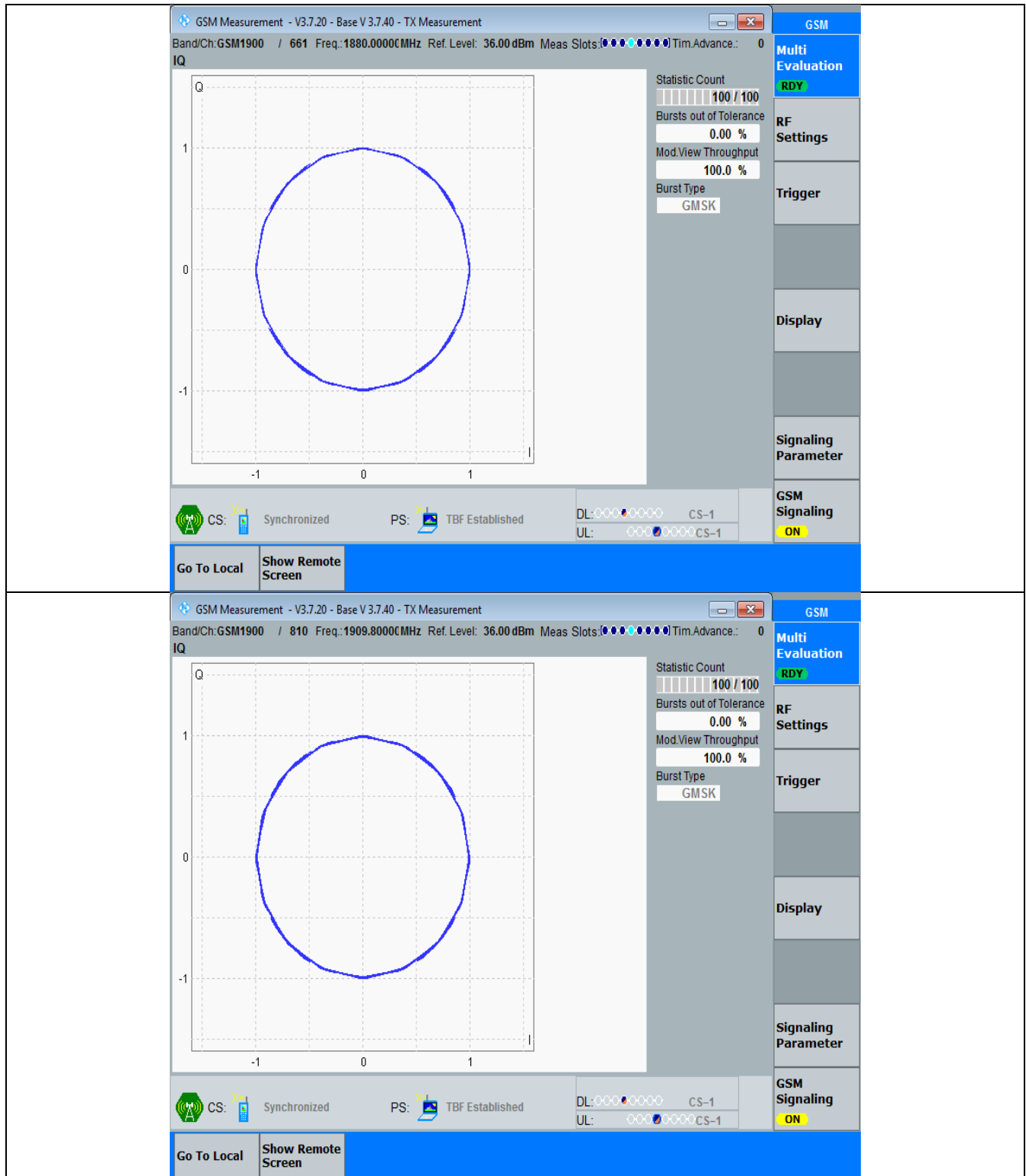
Test Band: PCS1900 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NT	LV	-54.9182	-46.1365	-40.7447	-0.0297	-0.0245	-0.0213	2.50	PASS
		NV	-43.8119	-41.3582	-47.5893	-0.0237	-0.0220	-0.0249	2.50	PASS
		HV	-40.9062	-42.9402	-48.6225	-0.0221	-0.0228	-0.0255	2.50	PASS
GPRS	NT	LV	13.1080	-27.7335	-30.5101	0.0071	-0.0148	-0.0160	2.50	PASS
		NV	-13.8183	-31.5756	-32.1567	-0.0075	-0.0168	-0.0168	2.50	PASS
		HV	-20.9535	-26.8941	-29.7030	-0.0113	-0.0143	-0.0156	2.50	PASS

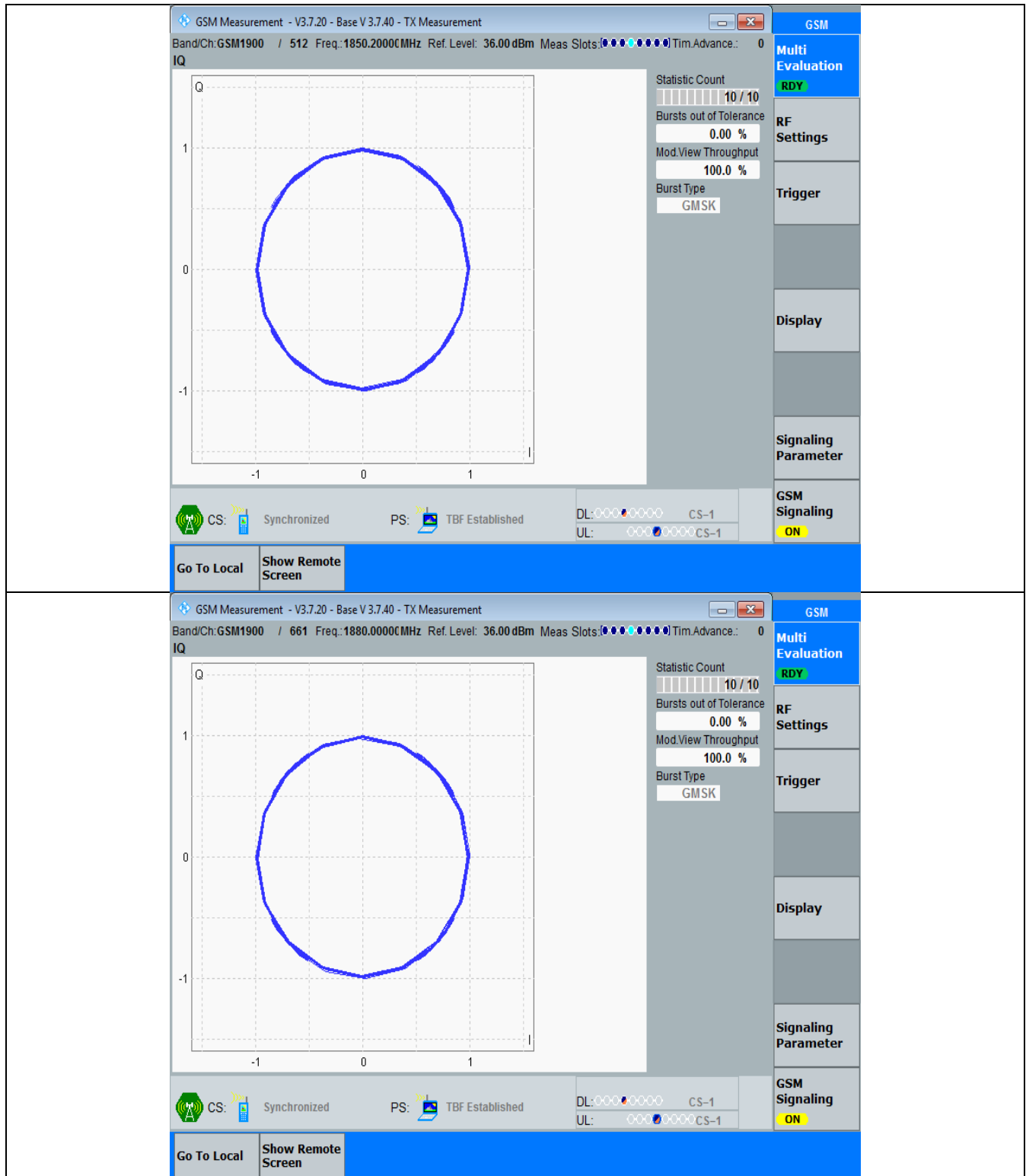
Test Band: PCS1900 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NV	-30.00	-45.6845	-45.7813	-53.0134	-0.0247	-0.0244	-0.0278	2.50	PASS
		-20.00	-38.8076	-46.3625	-50.8179	-0.0210	-0.0247	-0.0266	2.50	PASS
		-10.00	-46.0073	-47.6216	-45.7168	-0.0249	-0.0253	-0.0239	2.50	PASS
		0.00	-41.5196	-44.6836	-47.8799	-0.0224	-0.0238	-0.0251	2.50	PASS
		10.00	-42.0685	-46.6208	-49.4942	-0.0227	-0.0248	-0.0259	2.50	PASS
		20.00	-40.0667	-47.4602	-45.8782	-0.0217	-0.0252	-0.0240	2.50	PASS
		30.00	-50.0754	-41.5196	-50.7211	-0.0271	-0.0221	-0.0266	2.50	PASS
		40.00	-41.1322	-44.6513	-42.2622	-0.0222	-0.0238	-0.0221	2.50	PASS
		50.00	-48.6225	-47.2019	-39.4533	-0.0263	-0.0251	-0.0207	2.50	PASS
GPRS	NV	-30.00	-22.1804	-27.5398	-29.5416	-0.0120	-0.0146	-0.0155	2.50	PASS
		-20.00	-22.9552	-27.9273	-28.1533	-0.0124	-0.0149	-0.0147	2.50	PASS
		-10.00	-22.4064	-28.1856	-28.3147	-0.0121	-0.0150	-0.0148	2.50	PASS
		0.00	-24.2144	-26.5712	-28.8636	-0.0131	-0.0141	-0.0151	2.50	PASS
		10.00	-23.0844	-31.1236	-29.3156	-0.0125	-0.0166	-0.0154	2.50	PASS
		20.00	-22.5678	-29.9613	-29.3801	-0.0122	-0.0159	-0.0154	2.50	PASS
		30.00	-24.6987	-29.0250	-27.7981	-0.0133	-0.0154	-0.0146	2.50	PASS
		40.00	-25.7318	-30.4456	-28.6698	-0.0139	-0.0162	-0.0150	2.50	PASS
		50.00	-24.4404	-31.1881	-27.9596	-0.0132	-0.0166	-0.0146	2.50	PASS

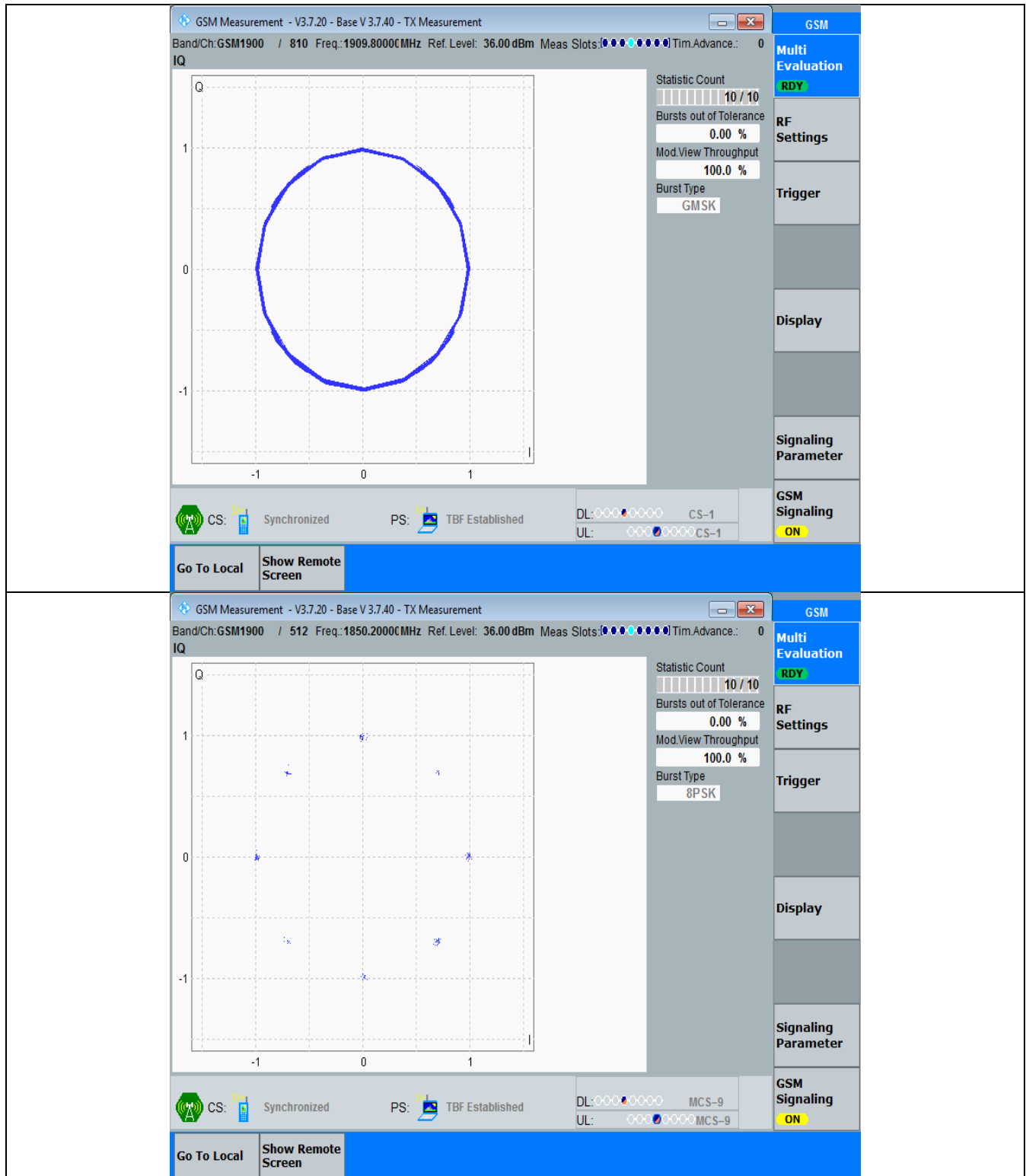
3. Modulation Characteristics

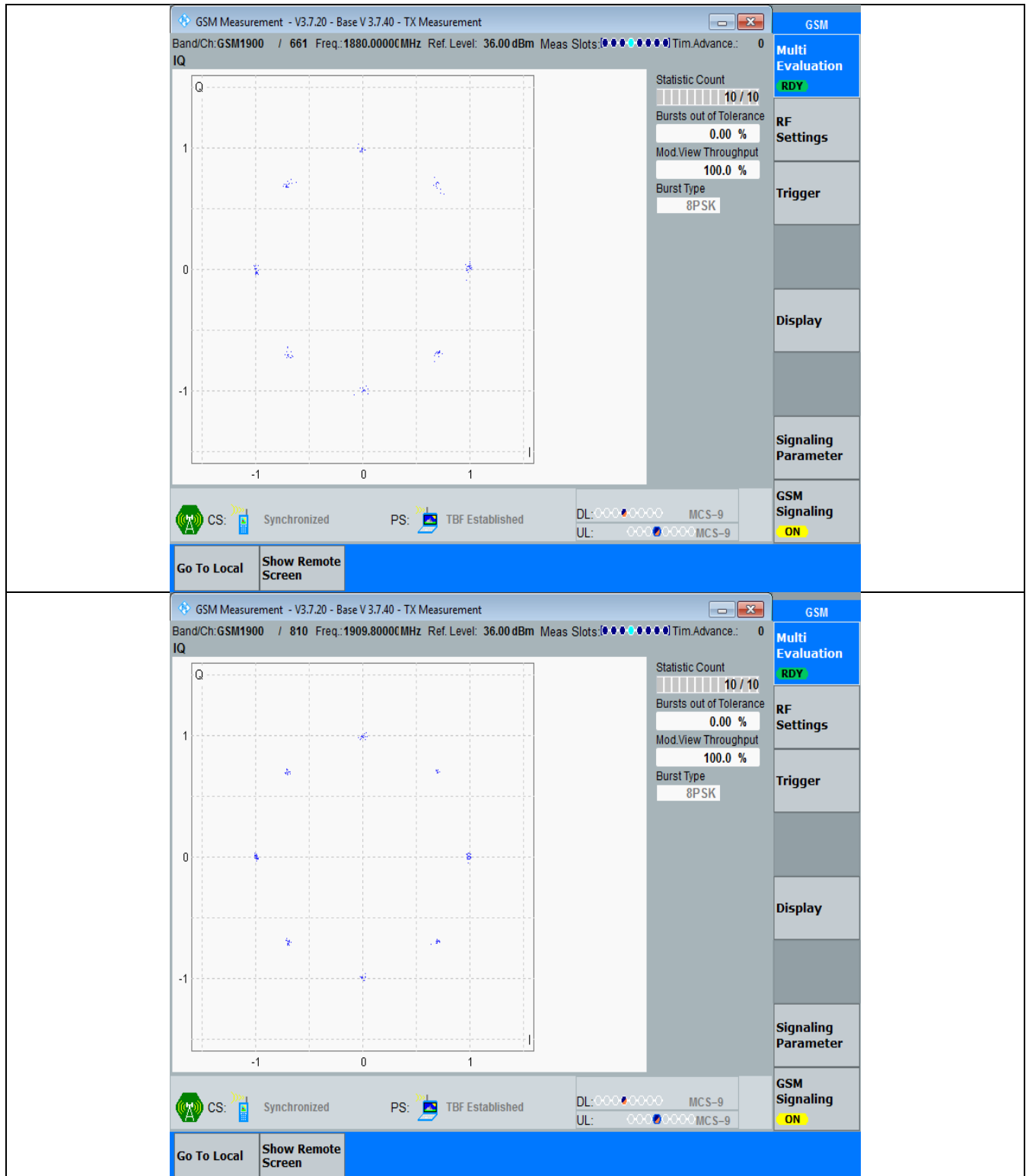
3.1 Test Graph









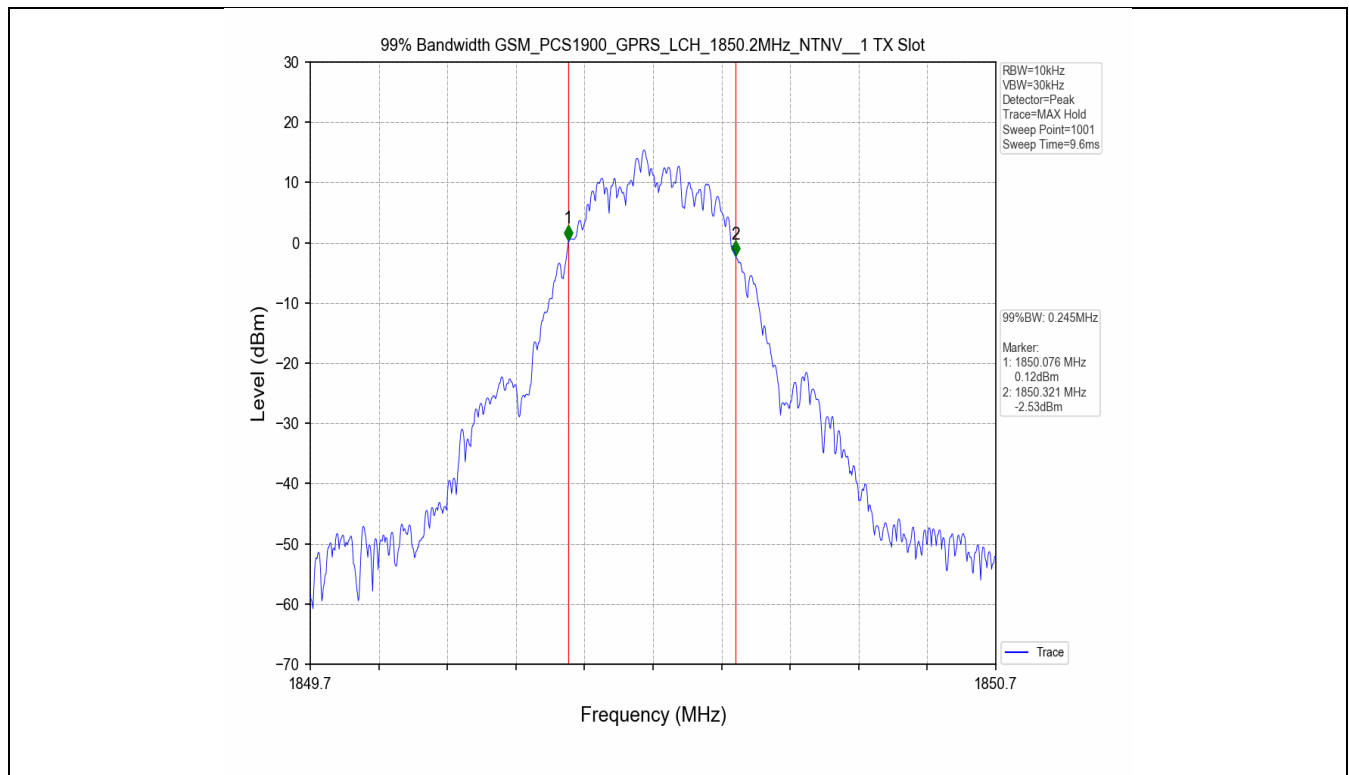


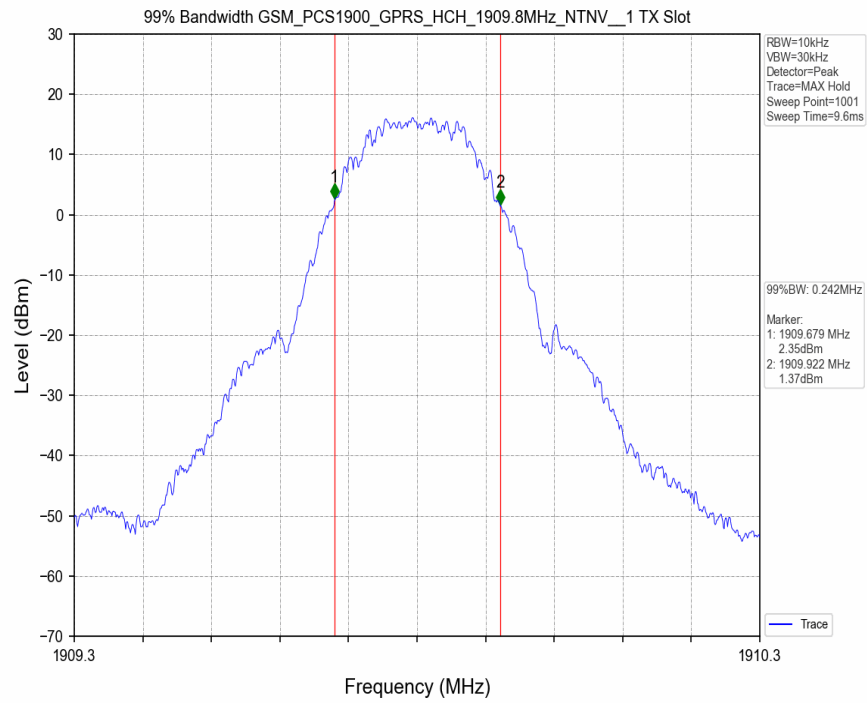
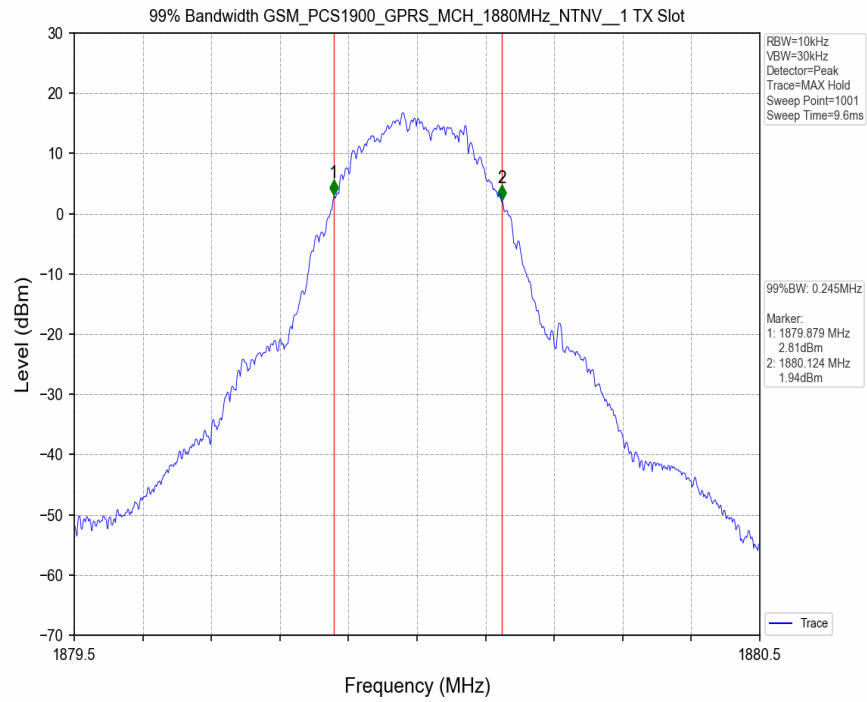
4. 99% & 26dB Bandwidth

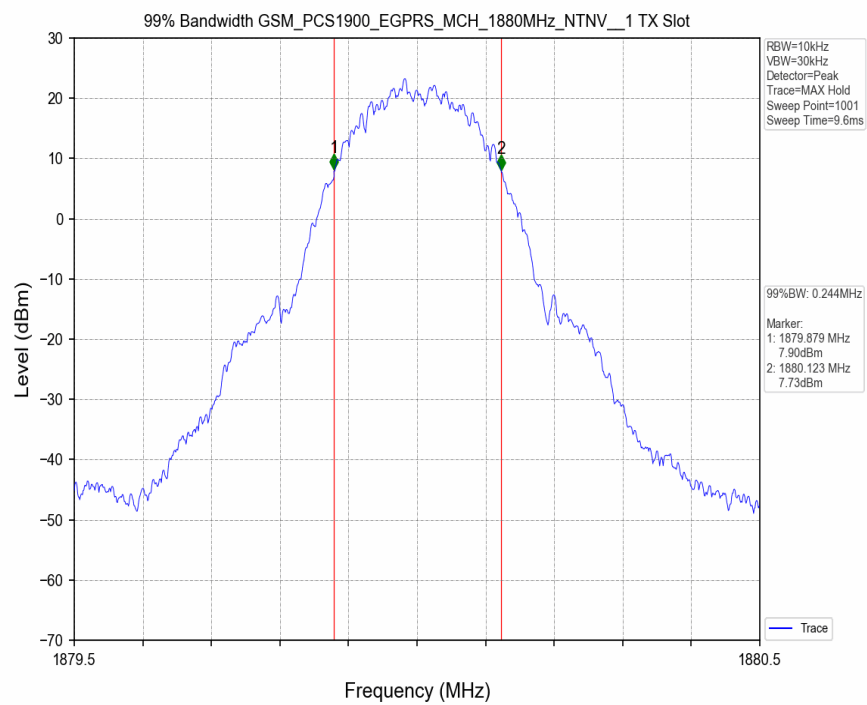
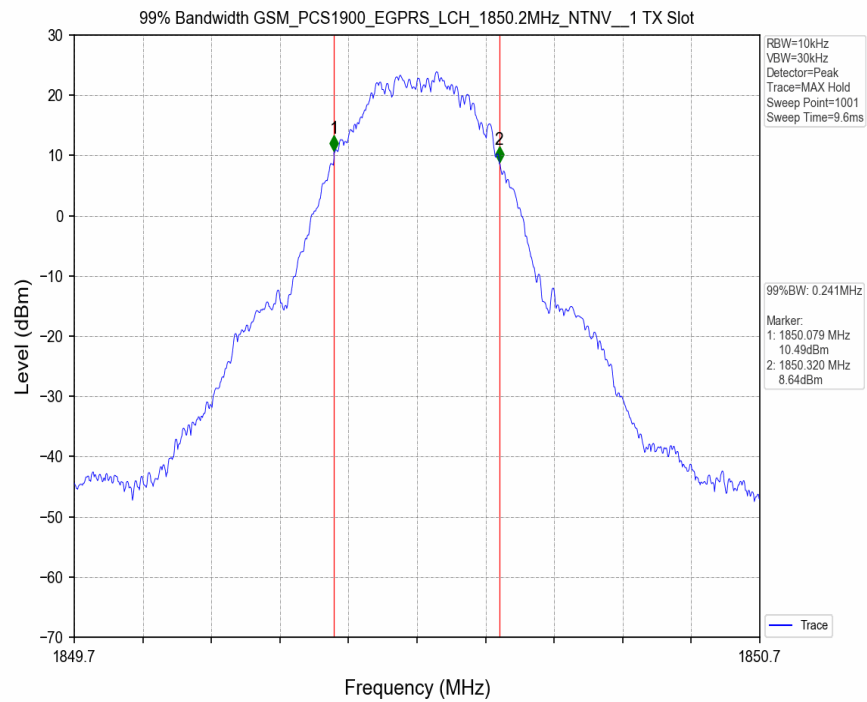
4.1 Test Result

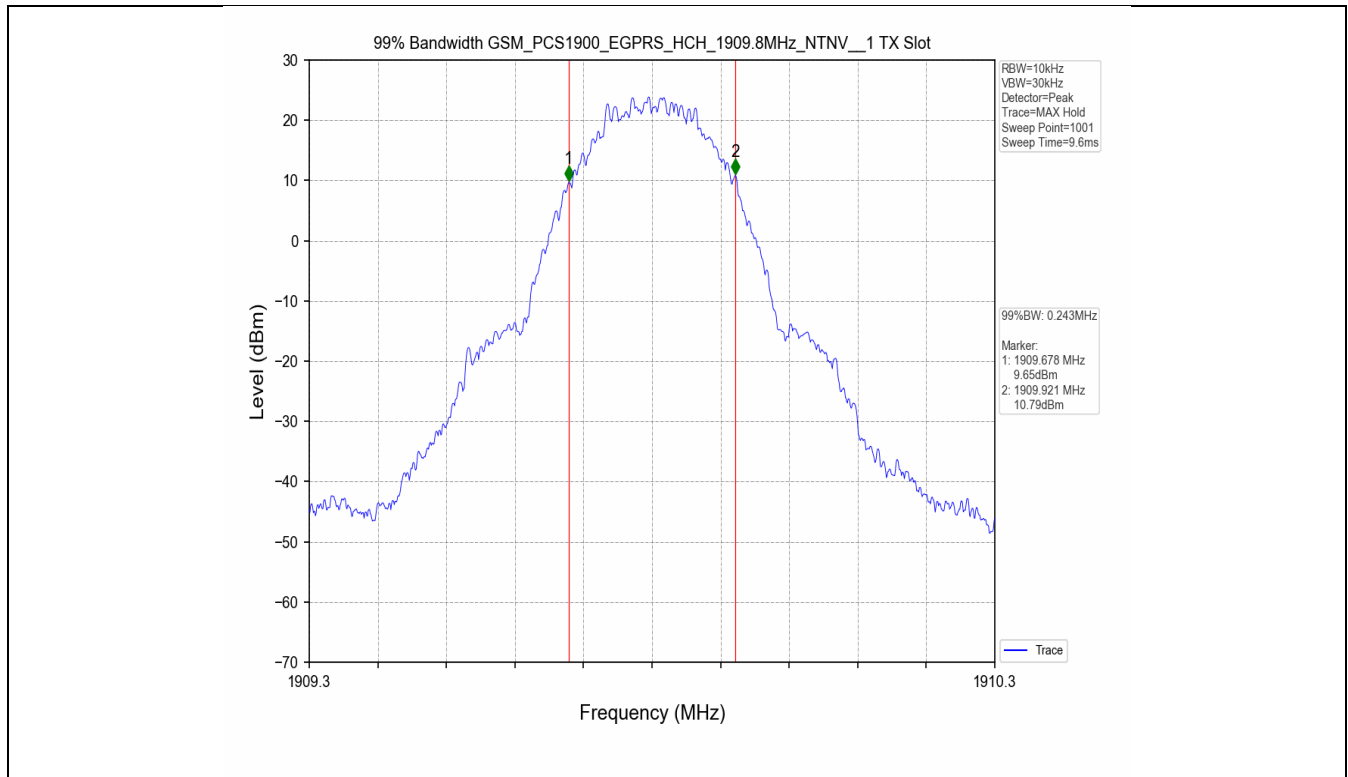
Test Band: PCS1900					
Test Mode	99% Occupied Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.241	0.244	0.243	N/A	PASS
GPRS	0.245	0.245	0.242	N/A	PASS

4.2 Test Graph



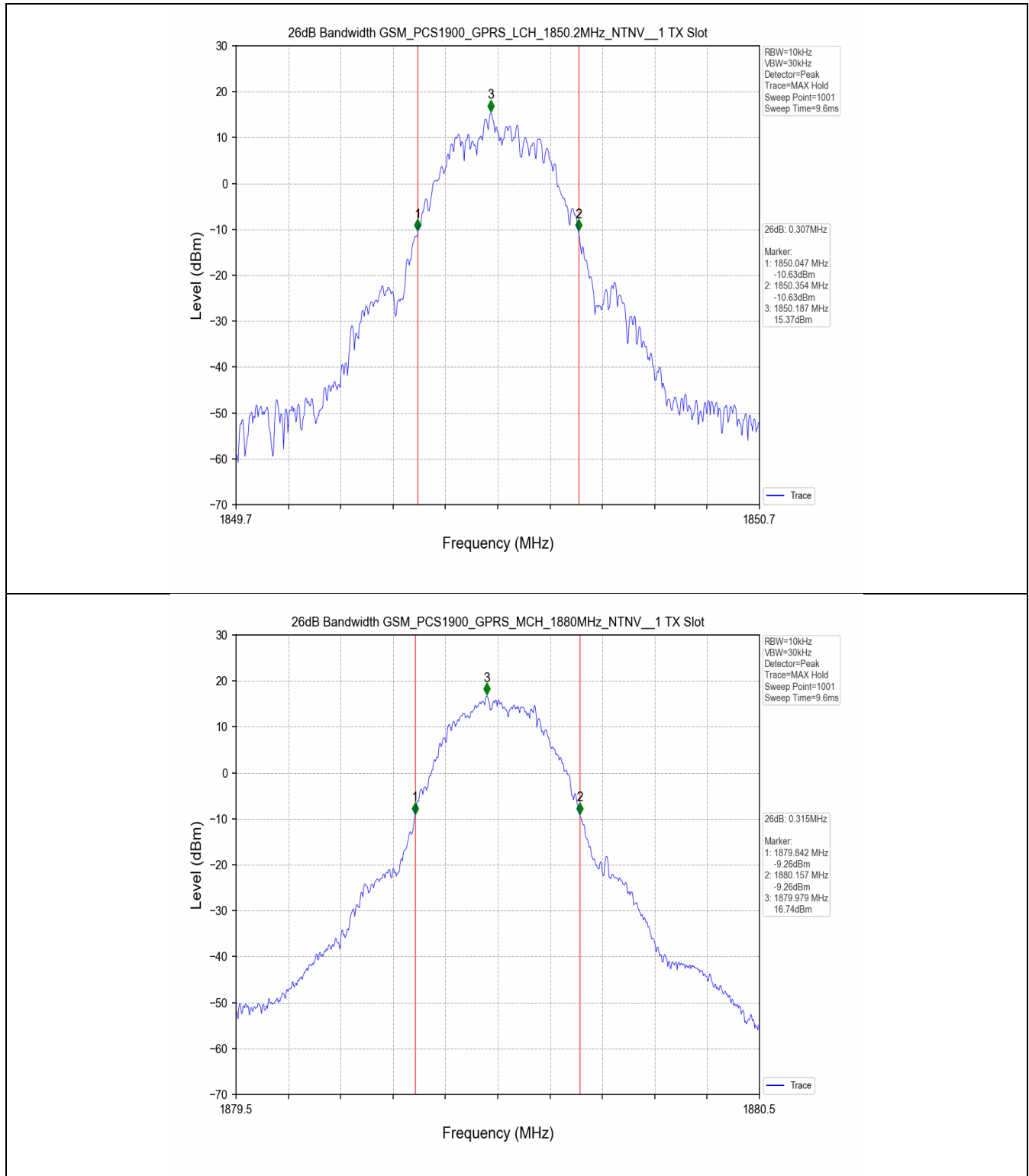


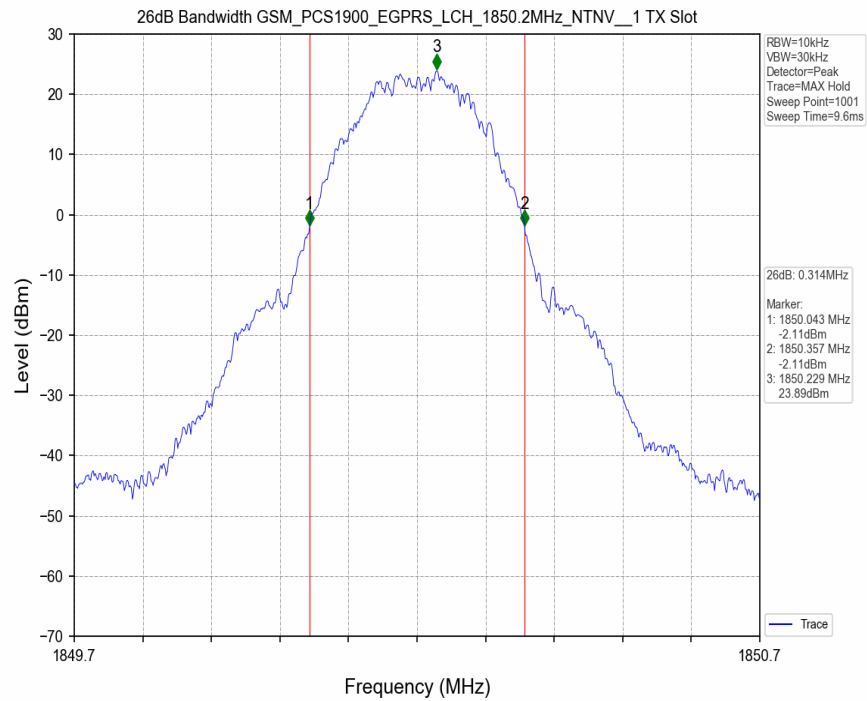
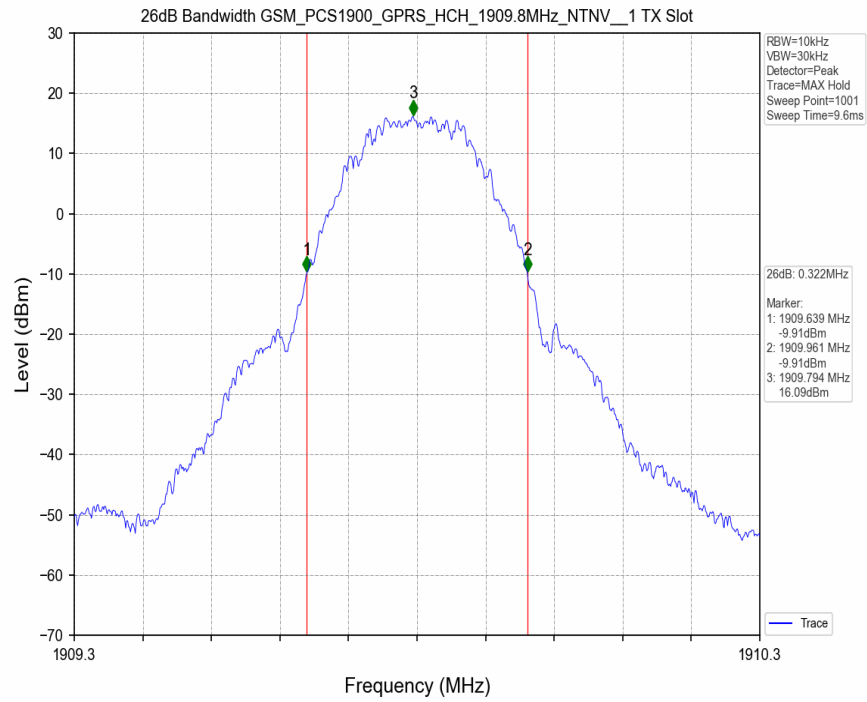


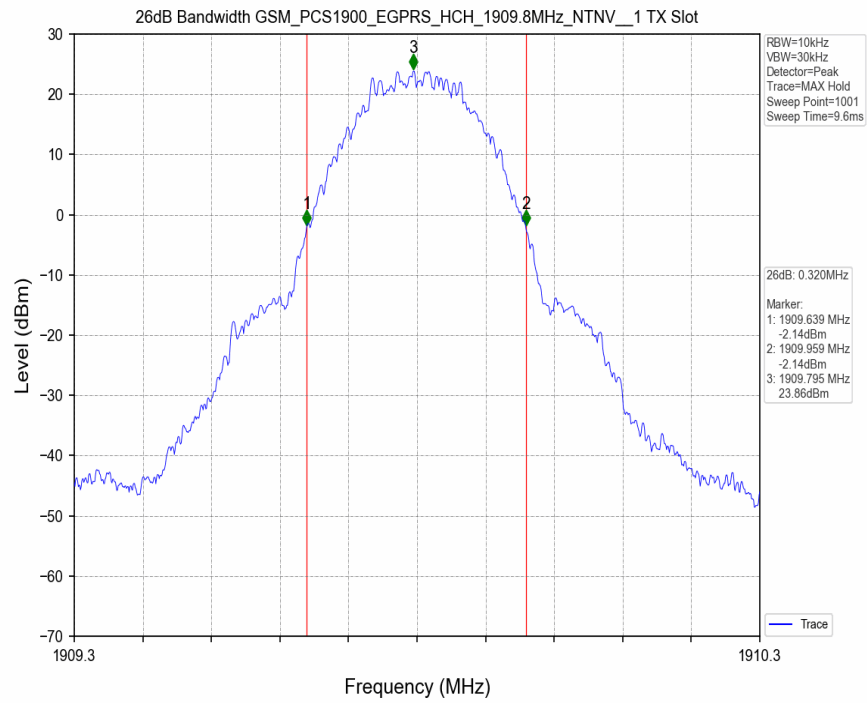
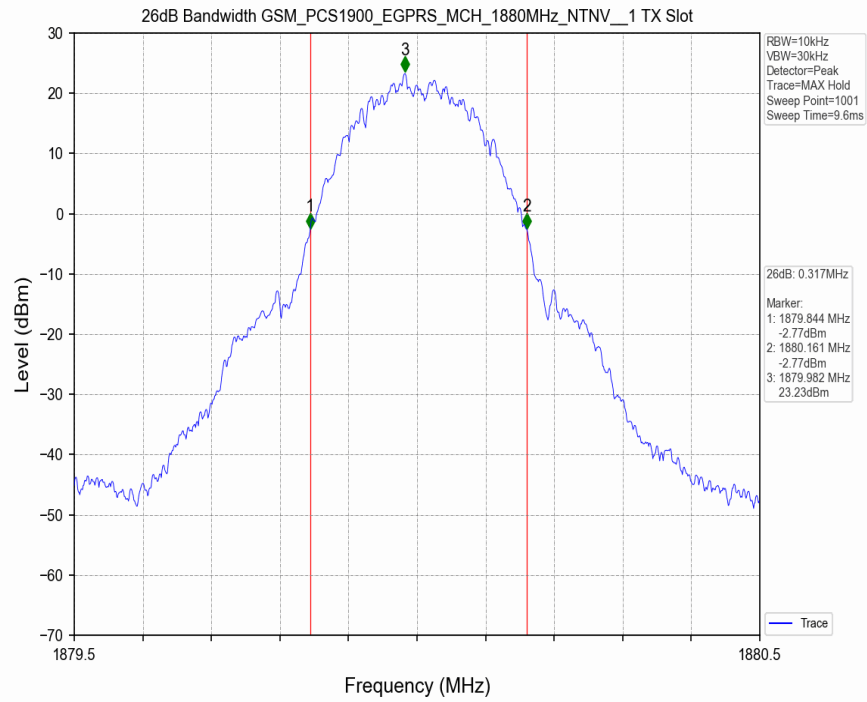


Test Band: PCS1900					
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.314	0.317	0.320	N/A	PASS
GPRS	0.307	0.315	0.322	N/A	PASS

4.2 Test Graph





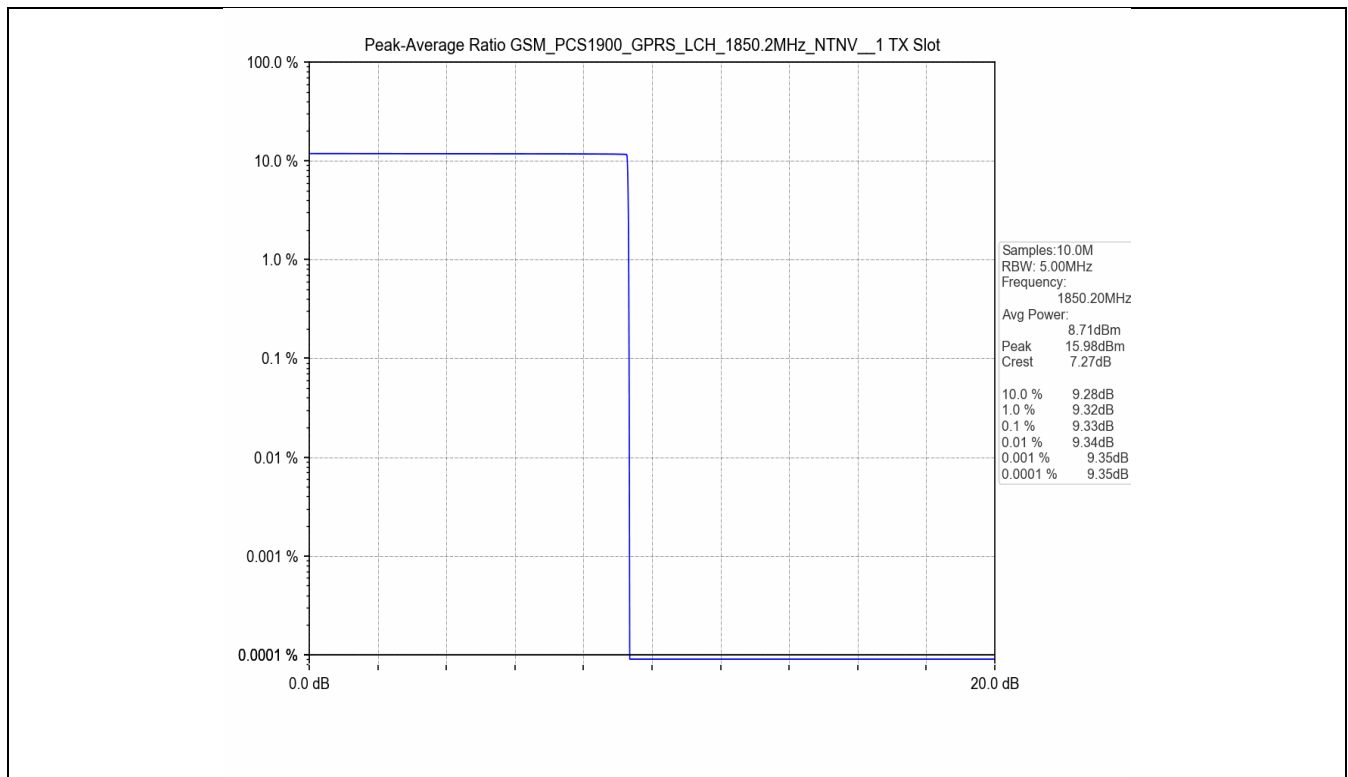


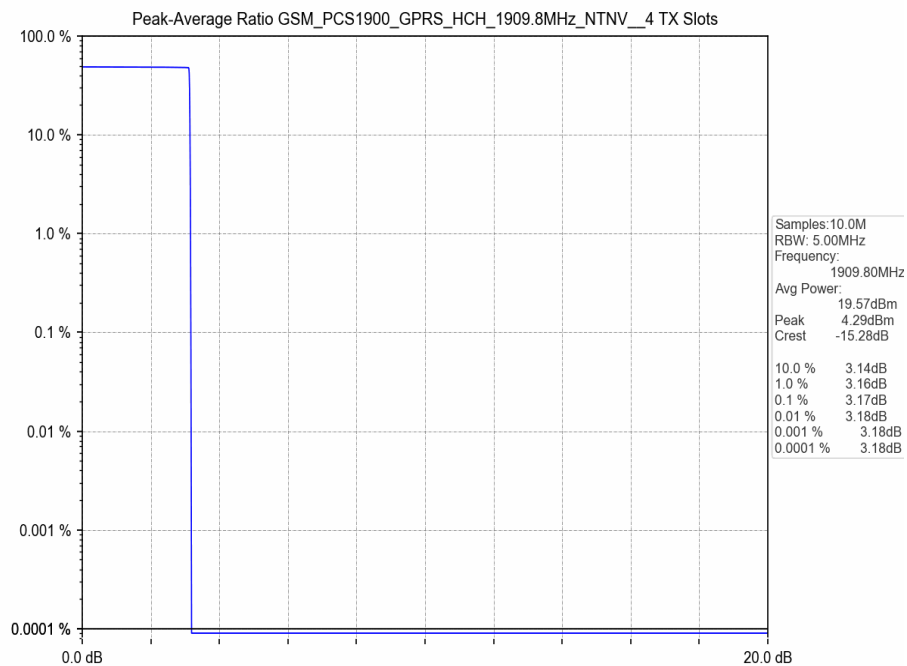
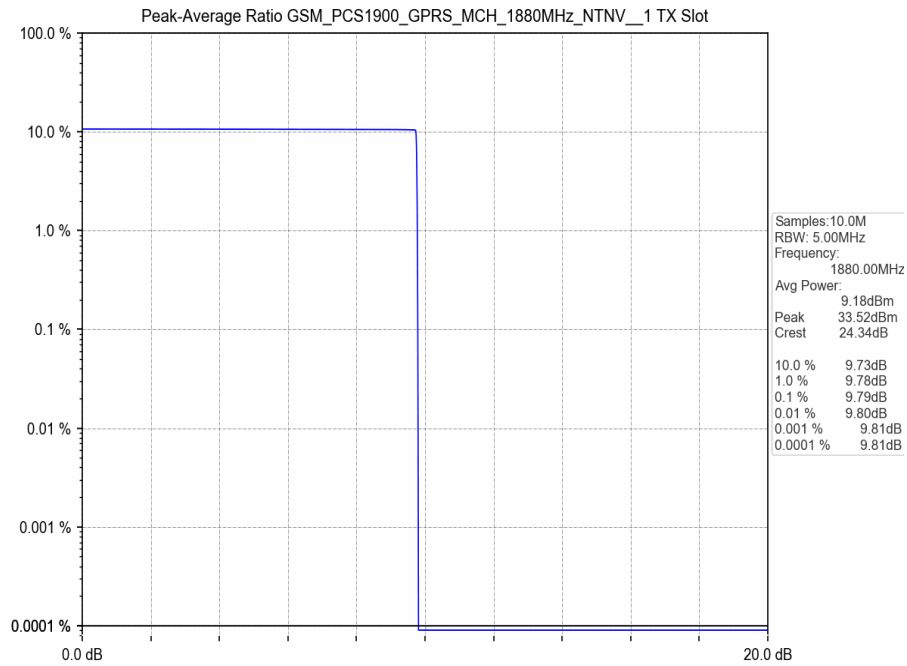
5. Peak-Average Ratio

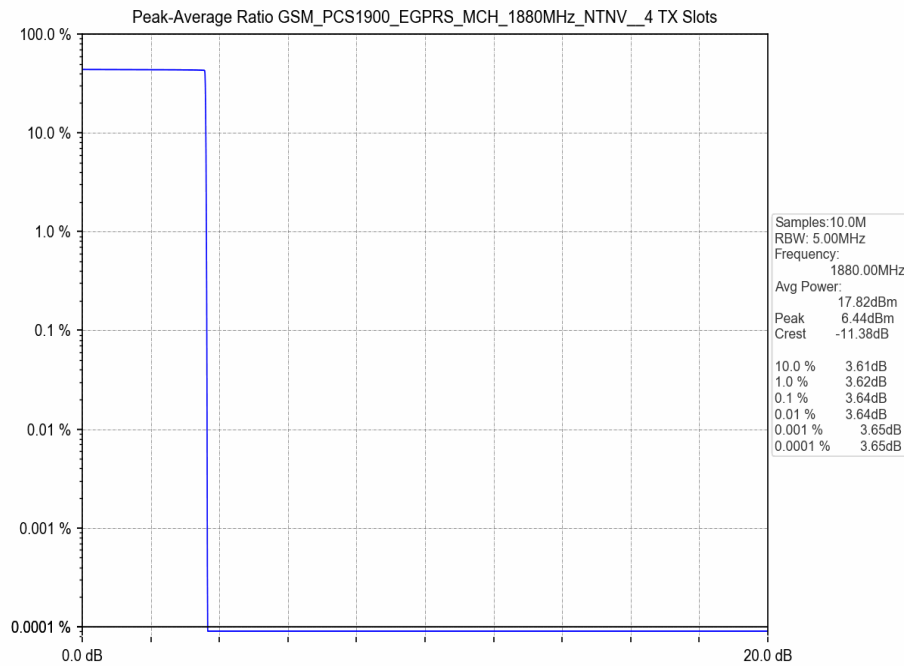
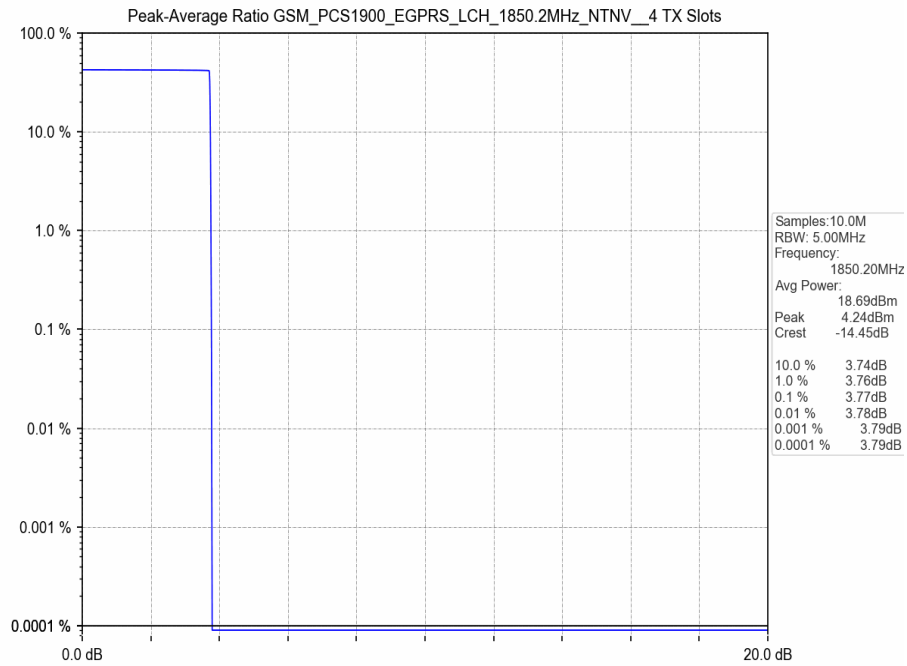
5.1 Test Result

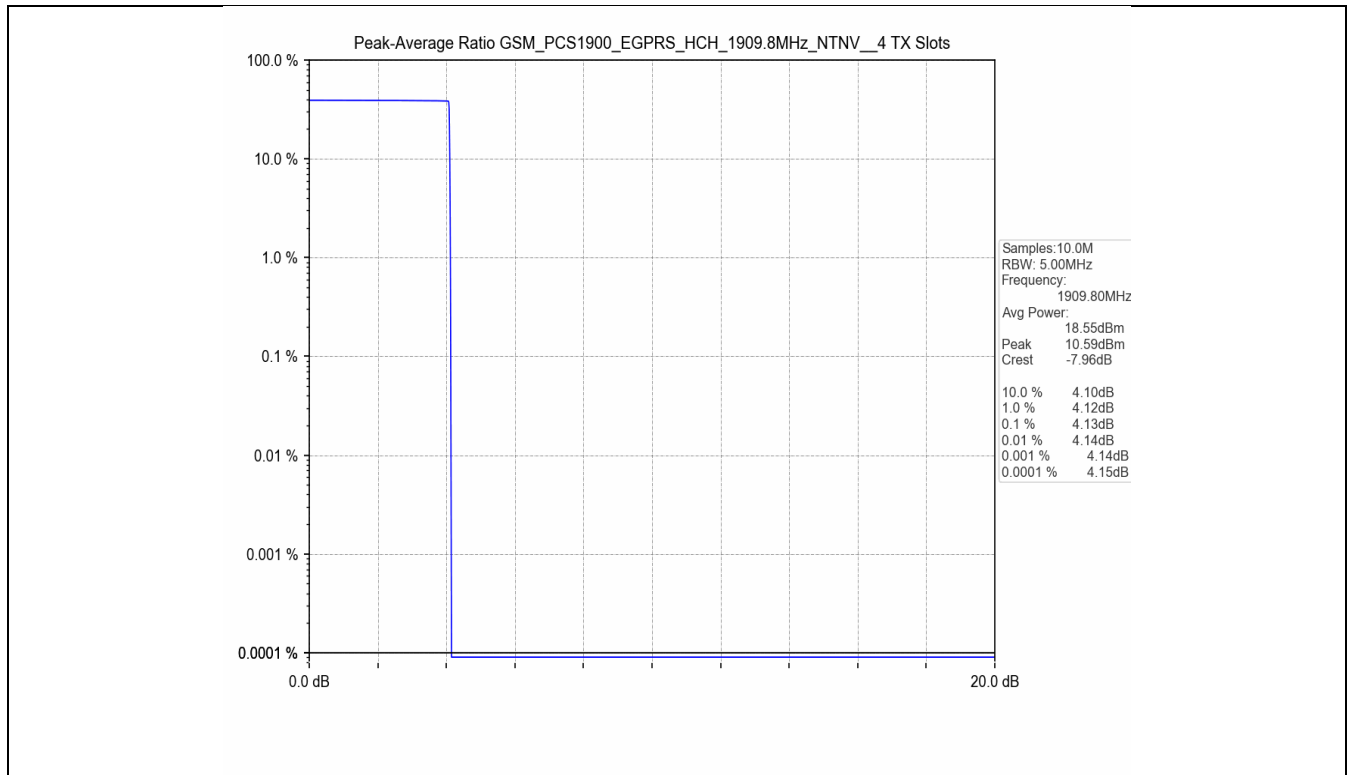
Test Band: PCS1900					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
EGPRS	3.77	3.64	4.13	13	PASS
GPRS	9.33	9.79	/	13	PASS
	/	/	3.17	13	PASS

5.2 Test Graph









6. Spurious Emission

6.1 Test Graph

