

## Appendix for Band DCS1800

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# 1. Transmitter - Frequency error and phase error

## 1.1 Test Result

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1710.2 (MHz) PCL=0	NTNV	5.04	171.02	PASS	RMS	0.61	5	PASS
					Peak	-2.31	20	PASS
	HTHV	16.92	171.02	PASS	RMS	0.57	5	PASS
					Peak	-2.73	20	PASS
	HTLV	6.59	171.02	PASS	RMS	0.59	5	PASS
					Peak	-2.56	20	PASS
LTHV	4.75	171.02	PASS	RMS	0.59	5	PASS	
				Peak	-2.18	20	PASS	
LTLV	5.29	171.02	PASS	RMS	0.59	5	PASS	
				Peak	-2.43	20	PASS	
Vibration	4.58	171.02	PASS	RMS	0.55	5	PASS	
				Peak	-2.28	20	PASS	

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1710.2 (MHz) PCL=7	NTNV	2.32	171.02	PASS	RMS	0.58	5	PASS
					Peak	-2.14	20	PASS
	HTHV	-3.68	171.02	PASS	RMS	0.59	5	PASS
					Peak	-2.26	20	PASS
	HTLV	3.84	171.02	PASS	RMS	0.57	5	PASS
					Peak	-2.6	20	PASS
LTHV	-0.19	171.02	PASS	RMS	0.55	5	PASS	
				Peak	2.07	20	PASS	
LTLV	0.1	171.02	PASS	RMS	0.54	5	PASS	
				Peak	-2.51	20	PASS	
Vibration	-0.23	171.02	PASS	RMS	0.56	5	PASS	
				Peak	-2.01	20	PASS	

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1710.2 (MHz) PCL=15	NTNV	7.14	171.02	PASS	RMS	0.54	5	PASS
					Peak	-1.95	20	PASS
	HTHV	4.49	171.02	PASS	RMS	0.56	5	PASS
					Peak	-2.37	20	PASS
	HTLV	5.1	171.02	PASS	RMS	0.56	5	PASS
					Peak	-2.59	20	PASS
LTHV	1.23	171.02	PASS	RMS	0.54	5	PASS	
				Peak	-2	20	PASS	
LTLV	8.23	171.02	PASS	RMS	0.56	5	PASS	
				Peak	2.13	20	PASS	
Vibration	6.88	171.02	PASS	RMS	0.53	5	PASS	
				Peak	2.28	20	PASS	

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1747.8	NTNV	-9.75	174.78	PASS	RMS	0.58	5	PASS
					Peak	2.18	20	PASS
	HTHV	-7.81	174.78	PASS	RMS	0.57	5	PASS
					Peak	-2.55	20	PASS

(MHz) PCL=0	HTLV	4.78	174.78	PASS	RMS	0.62	5	PASS
					Peak	-2.37	20	PASS
	LTHV	-13.82	174.78	PASS	RMS	0.6	5	PASS
					Peak	2.15	20	PASS
	LTLV	-14.04	174.78	PASS	RMS	0.62	5	PASS
					Peak	-2.56	20	PASS
	Vibration	-11.33	174.78	PASS	RMS	0.6	5	PASS
					Peak	-2.18	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 1747.8 (MHz) PCL=7	NTNV	-7.1	174.78	PASS	RMS	0.61	5	PASS
					Peak	-2.24	20	PASS
	HTHV	0.87	174.78	PASS	RMS	0.6	5	PASS
					Peak	2.82	20	PASS
	HTLV	0.36	174.78	PASS	RMS	0.62	5	PASS
					Peak	-2.63	20	PASS
	LTHV	-2.91	174.78	PASS	RMS	0.59	5	PASS
					Peak	-2.83	20	PASS
	LTLV	-5.84	174.78	PASS	RMS	0.58	5	PASS
					Peak	-2.26	20	PASS
	Vibration	-4	174.78	PASS	RMS	0.68	5	PASS
					Peak	-2.6	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 1747.8 (MHz) PCL=15	NTNV	-8.46	174.78	PASS	RMS	0.62	5	PASS
					Peak	-2.49	20	PASS
	HTHV	-5.68	174.78	PASS	RMS	0.58	5	PASS
					Peak	-2.7	20	PASS
	HTLV	-4.33	174.78	PASS	RMS	0.56	5	PASS
					Peak	-2.18	20	PASS
	LTHV	-5.78	174.78	PASS	RMS	0.56	5	PASS
					Peak	-2.35	20	PASS
	LTLV	-7.04	174.78	PASS	RMS	0.58	5	PASS
					Peak	-2.22	20	PASS
	Vibration	-7.97	174.78	PASS	RMS	0.67	5	PASS
					Peak	2.76	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 1784.8 (MHz) PCL=0	NTNV	-13.98	178.48	PASS	RMS	0.6	5	PASS
					Peak	2.17	20	PASS
	HTHV	-4.26	178.48	PASS	RMS	0.6	5	PASS
					Peak	2.23	20	PASS
	HTLV	-2.65	178.48	PASS	RMS	0.63	5	PASS
					Peak	2.29	20	PASS
	LTHV	-8.49	178.48	PASS	RMS	0.63	5	PASS
					Peak	2.46	20	PASS
	LTLV	-15.88	178.48	PASS	RMS	0.59	5	PASS
					Peak	2.83	20	PASS
	Vibration	-11.4	178.48	PASS	RMS	0.57	5	PASS
					Peak	2.31	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1784.8 (MHz) PCL=7	NTNV	-18.47	178.48	PASS	RMS	0.63	5	PASS
					Peak	2.26	20	PASS
	HTHV	-20.95	178.48	PASS	RMS	0.63	5	PASS
					Peak	2.29	20	PASS
	HTLV	-17.85	178.48	PASS	RMS	0.63	5	PASS
					Peak	-2.08	20	PASS
	LTHV	-19.27	178.48	PASS	RMS	0.62	5	PASS
					Peak	-1.96	20	PASS
	LTLV	-20.66	178.48	PASS	RMS	0.62	5	PASS
					Peak	2.34	20	PASS
	Vibration	-20.73	178.48	PASS	RMS	0.64	5	PASS
					Peak	-2.16	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1784.8 (MHz) PCL=15	NTNV	-7.23	178.48	PASS	RMS	0.6	5	PASS
					Peak	2.22	20	PASS
	HTHV	-14.21	178.48	PASS	RMS	0.64	5	PASS
					Peak	2.42	20	PASS
	HTLV	-4.65	178.48	PASS	RMS	0.64	5	PASS
					Peak	-2.13	20	PASS
	LTHV	-3.65	178.48	PASS	RMS	0.64	5	PASS
					Peak	2.48	20	PASS
	LTLV	-5.1	178.48	PASS	RMS	0.6	5	PASS
					Peak	-1.99	20	PASS
	Vibration	-8.39	178.48	PASS	RMS	0.63	5	PASS
					Peak	2.28	20	PASS

## 2. Transmitter - Frequency error under multipath and interference conditions

### 2.1 Test Result

DCS1800	Test Condition	Fading Set	Frequency error(Hz)			Limit (Hz)	Verdict
			LCH 880.2MHz	LCH 902MHz	LCH 914.8MHz		
DCS1800 PCL=0	NTNV	RA130	RA130=-1.61	RA130=-12.33	RA130=-13.2	±400	PASS
		HT100	HT100=-4.26	HT100=-14.46	HT100=-11.01	±350	PASS
		TU3	TU3=0.03	TU3=-12.37	TU3=-9.52	±320	PASS
		TU50	TU50=-2.13	TU50=-12.59	TU50=-12.59	±260	PASS
	HTHV	RA130	RA130=0.61	RA130=8.65	RA130=6.36	±400	PASS
		HT100	HT100=2.26	HT100=5.39	HT100=5.33	±350	PASS
		TU3	TU3=3.36	TU3=-13.46	TU3=-12.62	±320	PASS
		TU50	TU50=2.23	TU50=-14.33	TU50=-5	±260	PASS
HTLV	RA130	RA130=1.	RA130=-	RA130=-	±400	PASS	

			1	14.27	14.24		
		HT100	HT100=-1.97	HT100=-13.01	HT100=-9.36	±350	PASS
		TU3	TU3=-3.45	TU3=-15.59	TU3=-9.75	±320	PASS
		TU50	TU50=0.65	TU50=-14.63	TU50=-15.85	±260	PASS
	LTHV	RA130	RA130=-0.32	RA130=-14.33	RA130=-11.69	±400	PASS
		HT100	HT100=0.29	HT100=-12.79	HT100=-9.94	±350	PASS
		TU3	TU3=-2.55	TU3=-13.37	TU3=-11.01	±320	PASS
		TU50	TU50=-2.52	TU50=-11.24	TU50=-12.98	±260	PASS
	LTLV	RA130	RA130=-1.94	RA130=-10.49	RA130=-10.2	±400	PASS
		HT100	HT100=-5.39	HT100=-12.88	HT100=-12.43	±350	PASS
		TU3	TU3=-2.94	TU3=-13.2	TU3=-12.2	±320	PASS
		TU50	TU50=-5.23	TU50=-9.72	TU50=-11.82	±260	PASS

DCS1800	Test Condition	Fading Set	Frequency error(Hz)			Limit (Hz)	Verdict
			LCH 880.2MHz	LCH 902MHz	LCH 914.8MHz		
DCS1800 PCL=7	NTNV	RA130	RA130=-15.59	RA130=-20.05	RA130=-6.91	±400	PASS
		HT100	HT100=-12.66	HT100=-16.66	HT100=-7.04	±350	PASS
		TU3	TU3=-13.95	TU3=-20.92	TU3=-7.85	±320	PASS
		TU50	TU50=-12.49	TU50=-14.01	TU50=-8.72	±260	PASS
	HTHV	RA130	RA130=-5.13	RA130=-5.62	RA130=-5	±400	PASS
		HT100	HT100=-3.23	HT100=-0.94	HT100=-4.13	±350	PASS
		TU3	TU3=-15.56	TU3=-20.08	TU3=-6.42	±320	PASS
		TU50	TU50=-2.87	TU50=-1.49	TU50=-1.87	±260	PASS
	HTLV	RA130	RA130=-14.08	RA130=-15.08	RA130=-5.81	±400	PASS
		HT100	HT100=-14.21	HT100=-13.11	HT100=-7.78	±350	PASS
		TU3	TU3=-15.21	TU3=-17.34	TU3=-10.23	±320	PASS
		TU50	TU50=-16.08	TU50=-20.92	TU50=-6.88	±260	PASS
	LTHV	RA130	RA130=-14.01	RA130=-17.43	RA130=-5.52	±400	PASS
		HT100	HT100=-18.53	HT100=-19.08	HT100=-7.72	±350	PASS
		TU3	TU3=-13.72	TU3=-16.37	TU3=-7.26	±320	PASS
		TU50	TU50=-11.2	TU50=-18.85	TU50=-8.88	±260	PASS
	LTLV	RA130	RA130=-	RA130=-	RA130=-	±400	PASS

		12.2	19.5	5.46		
	HT100	HT100=-13.24	HT100=-17.08	HT100=-10.17	±350	PASS
	TU3	TU3=-10.4	TU3=-17.89	TU3=-5.23	±320	PASS
	TU50	TU50=-13.3	TU50=-22.28	TU50=-7.1	±260	PASS

DCS1800	Test Condition	Fading Set	Frequency error(Hz)			Limit (Hz)	Verdict
			LCH 880.2MHz	LCH 902MHz	LCH 914.8MHz		
DCS1800 PCL=15	NTNV	RA130	RA130=-9.81	RA130=5.97	RA130=1.1	±400	PASS
		HT100	HT100=-8.85	HT100=6.97	HT100=-4.04	±350	PASS
		TU3	TU3=-7.1	TU3=4.94	TU3=-1.32	±320	PASS
		TU50	TU50=-11.24	TU50=7.23	TU50=-1.52	±260	PASS
	HTHV	RA130	RA130=-11.46	RA130=-4.84	RA130=-3.33	±400	PASS
		HT100	HT100=8.2	HT100=0.1	HT100=-0.32	±350	PASS
		TU3	TU3=-15.56	TU3=-2.52	TU3=-4.1	±320	PASS
		TU50	TU50=7.97	TU50=-0.9	TU50=-2.94	±260	PASS
	HTLV	RA130	RA130=-15.66	RA130=0.23	RA130=-3.49	±400	PASS
		HT100	HT100=-10.88	HT100=-1.49	HT100=-2.87	±350	PASS
		TU3	TU3=-11.69	TU3=4.88	TU3=-0.58	±320	PASS
		TU50	TU50=-8.46	TU50=3.58	TU50=-0.48	±260	PASS
	LTHV	RA130	RA130=-13.62	RA130=2	RA130=-4.55	±400	PASS
		HT100	HT100=-13.85	HT100=5.75	HT100=-1.52	±350	PASS
		TU3	TU3=-10.72	TU3=5.81	TU3=-4.97	±320	PASS
		TU50	TU50=-9.98	TU50=8.27	TU50=-3.68	±260	PASS
	LTLV	RA130	RA130=-13.69	RA130=5.84	RA130=-7.36	±400	PASS
		HT100	HT100=-12.01	HT100=8.2	HT100=-4.52	±350	PASS
		TU3	TU3=-12.24	TU3=6.17	TU3=-0.55	±320	PASS
		TU50	TU50=-11.85	TU50=7.26	TU50=-3.71	±260	PASS

### 3. Frequency error and phase error in GPRS multislots configuration

#### 3.1 Test Result

DCS1800	Test	Frequency	Limit	Result	Phase Error	Limit	Result
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	Condition	Error(Hz)	(Hz)		(degree)		(degree)	
Reference Frequency  1710.2 (MHz)  GAMMA=3	NTNV	6.94	±171.02	PASS	RMS	0.67	5	PASS
					Peak	2.7	20	PASS
	HTHV	11.75	±171.02	PASS	RMS	0.63	5	PASS
					Peak	-2.46	20	PASS
	HTLV	11.04	±171.02	PASS	RMS	0.64	5	PASS
					Peak	-2.29	20	PASS
	LTHV	10.75	±171.02	PASS	RMS	0.67	5	PASS
					Peak	-2.41	20	PASS
	LTLV	10.88	±171.02	PASS	RMS	0.59	5	PASS
					Peak	2.45	20	PASS
	Vibration	5.94	±171.02	PASS	RMS	0.65	5	PASS
					Peak	-2.56	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency  1710.2 (MHz)  GAMMA=1 0	NTNV	8.01	±171.02	PASS	RMS	0.57	5	PASS
					Peak	2.21	20	PASS
	HTHV	9.36	±171.02	PASS	RMS	0.71	5	PASS
					Peak	2.7	20	PASS
	HTLV	6.52	±171.02	PASS	RMS	0.63	5	PASS
					Peak	2.56	20	PASS
	LTHV	8.88	±171.02	PASS	RMS	0.64	5	PASS
					Peak	-2.31	20	PASS
	LTLV	7.14	±171.02	PASS	RMS	0.66	5	PASS
					Peak	2.62	20	PASS
	Vibration	4.65	±171.02	PASS	RMS	0.57	5	PASS
					Peak	2.27	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency  1710.2 (MHz)  GAMMA=1 8	NTNV	10.88	±171.02	PASS	RMS	0.55	5	PASS
					Peak	-2.04	20	PASS
	HTHV	12.88	±171.02	PASS	RMS	0.57	5	PASS
					Peak	2.5	20	PASS
	HTLV	7.46	±171.02	PASS	RMS	0.59	5	PASS
					Peak	2.5	20	PASS
	LTHV	8.01	±171.02	PASS	RMS	0.57	5	PASS
					Peak	-2.47	20	PASS
	LTLV	6.46	±171.02	PASS	RMS	0.55	5	PASS
					Peak	2.19	20	PASS
	Vibration	6.72	±171.02	PASS	RMS	0.6	5	PASS
					Peak	2.25	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency  1747.8 (MHz)  GAMMA=3	NTNV	-0.9	±174.78	PASS	RMS	0.68	5	PASS
					Peak	2.71	20	PASS
	HTHV	2.81	±174.78	PASS	RMS	0.61	5	PASS
					Peak	-2.33	20	PASS
	HTLV	-2.16	±174.78	PASS	RMS	0.63	5	PASS
					Peak	2.24	20	PASS
	LTHV	1.61	±174.78	PASS	RMS	0.61	5	PASS
					Peak	2.35	20	PASS
	LTLV	-1.1	±174.78	PASS	RMS	0.65	5	PASS

					Peak	2.25	20	PASS
	Vibration	1.13	±174.78	PASS	RMS	0.64	5	PASS
					Peak	2.77	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 1747.8 (MHz) GAMMA=10	NTNV	-3.07	±174.78	PASS	RMS	0.71	5	PASS
					Peak	-2.6	20	PASS
	HTHV	0.52	±174.78	PASS	RMS	0.66	5	PASS
					Peak	2.36	20	PASS
	HTLV	-0.61	±174.78	PASS	RMS	0.69	5	PASS
					Peak	-2.58	20	PASS
	LTHV	-0.03	±174.78	PASS	RMS	0.61	5	PASS
					Peak	2.68	20	PASS
	LTLV	-2	±174.78	PASS	RMS	0.7	5	PASS
					Peak	2.55	20	PASS
	Vibration	-0.77	±174.78	PASS	RMS	0.65	5	PASS
					Peak	2.68	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 1747.8 (MHz) GAMMA=18	NTNV	2.78	±174.78	PASS	RMS	0.62	5	PASS
					Peak	-2.55	20	PASS
	HTHV	2.78	±174.78	PASS	RMS	0.71	5	PASS
					Peak	2.97	20	PASS
	HTLV	4.1	±174.78	PASS	RMS	0.7	5	PASS
					Peak	2.68	20	PASS
	LTHV	1.9	±174.78	PASS	RMS	0.7	5	PASS
					Peak	-2.55	20	PASS
	LTLV	2.71	±174.78	PASS	RMS	0.63	5	PASS
					Peak	2.36	20	PASS
	Vibration	1.26	±174.78	PASS	RMS	0.67	5	PASS
					Peak	2.68	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 1784.8 (MHz) GAMMA=3	NTNV	5.62	±178.48	PASS	RMS	0.63	5	PASS
					Peak	-2.22	20	PASS
	HTHV	5.84	±178.48	PASS	RMS	0.64	5	PASS
					Peak	-2.46	20	PASS
	HTLV	7.3	±178.48	PASS	RMS	0.59	5	PASS
					Peak	2.74	20	PASS
	LTHV	4.65	±178.48	PASS	RMS	0.64	5	PASS
					Peak	-2.4	20	PASS
	LTLV	2.65	±178.48	PASS	RMS	0.63	5	PASS
					Peak	2.7	20	PASS
	Vibration	5.88	±178.48	PASS	RMS	0.68	5	PASS
					Peak	2.79	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency	NTNV	4.75	±178.48	PASS	RMS	0.61	5	PASS
					Peak	-2.39	20	PASS
	HTHV	2.32	±178.48	PASS	RMS	0.59	5	PASS

1784.8 (MHz)  GAMMA=1 0	HTLV	1.71	±178.48	PASS	Peak	-2.5	20	PASS	
					RMS	0.59	5	PASS	
	LTHV	2.87	±178.48	PASS	Peak	3.2	20	PASS	
					RMS	0.64	5	PASS	
	LTLV	6.88	±178.48	PASS	Peak	2.51	20	PASS	
					RMS	0.66	5	PASS	
	Vibration	4.52	±178.48	PASS	Peak	-2.58	20	PASS	
					RMS	0.63	5	PASS	
						Peak	-2.26	20	PASS

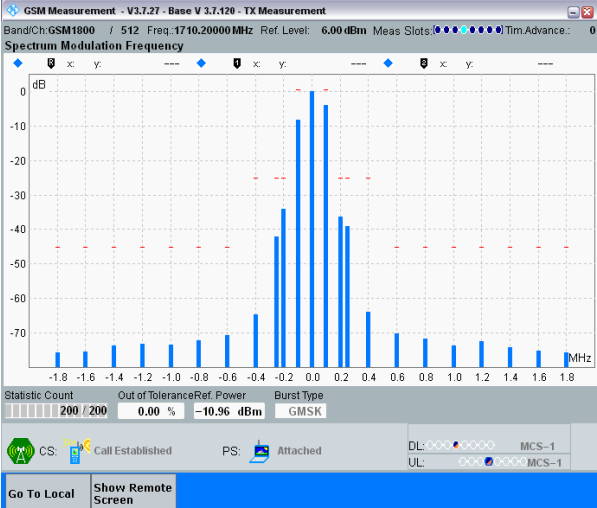
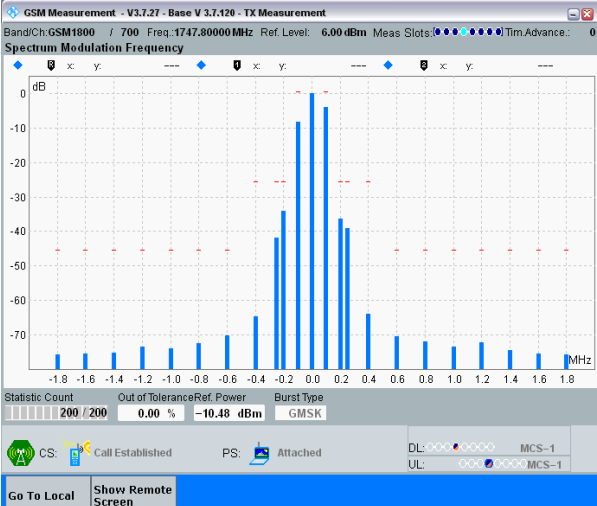
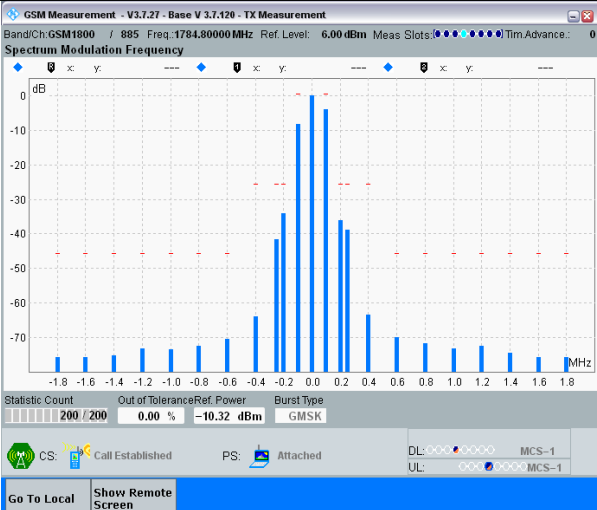
DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency  1784.8 (MHz)  GAMMA=1 8	NTNV	5.42	±178.48	PASS	RMS	0.64	5	PASS
					Peak	2.33	20	PASS
	HTHV	4	±178.48	PASS	RMS	0.63	5	PASS
					Peak	2.29	20	PASS
	HTLV	8.72	±178.48	PASS	RMS	0.64	5	PASS
					Peak	2.21	20	PASS
LTHV	7.62	±178.48	PASS	RMS	0.65	5	PASS	
				Peak	-2.55	20	PASS	
LTLV	7.07	±178.48	PASS	RMS	0.66	5	PASS	
				Peak	2.31	20	PASS	
Vibration	8.3	±178.48	PASS	RMS	0.65	5	PASS	
				Peak	2.22	20	PASS	

## 4. Transmitter - Output RF spectrum


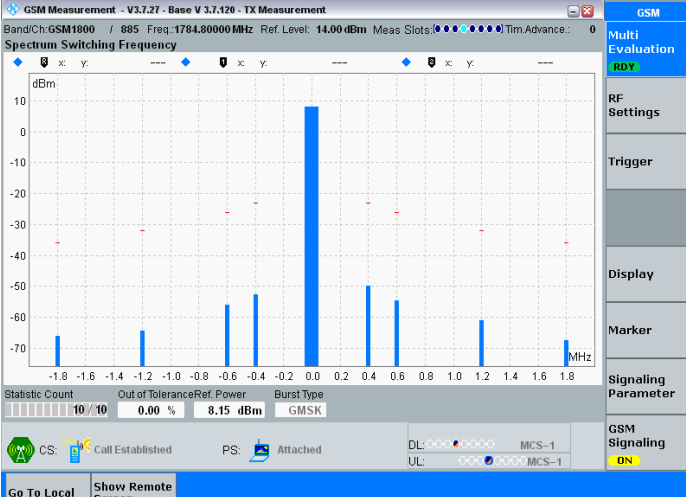
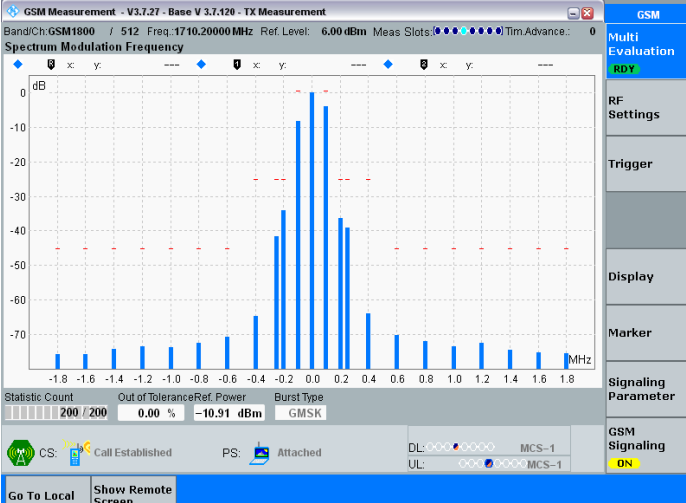
### 4.1 Test Result

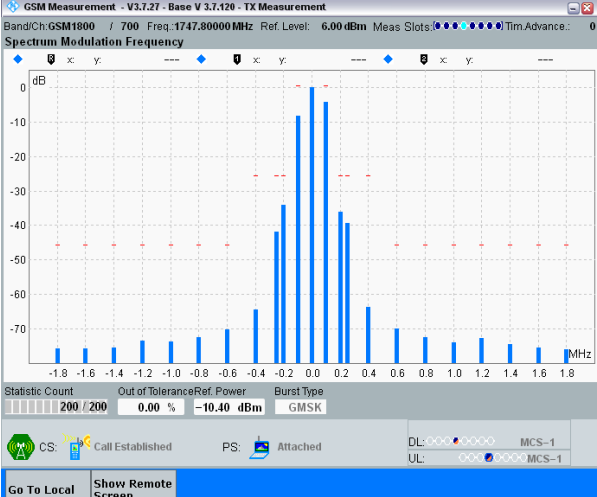
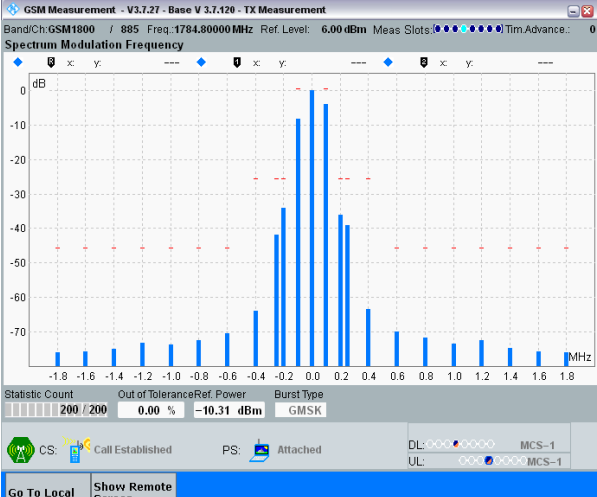
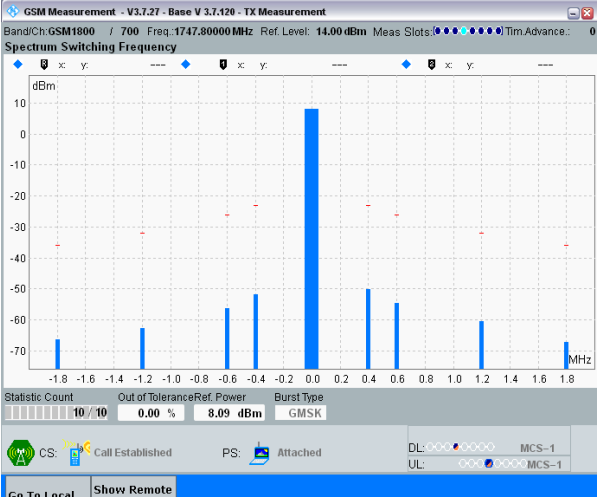
Test Mode	Test Condition	Case No.	PCL	Channel	Verdict	
DCS1800	NTNV	1	00	MCH	PASS	
		2	15	LCH	PASS	
				MCH	PASS	
				HCH	PASS	
				MCH	PASS	
		3	11	00	MCH	PASS
				07	MCH	PASS
				LCH	PASS	
				MCH	PASS	
		HTHV	2	15	LCH	PASS
					MCH	PASS
					HCH	PASS
	3		11	MCH	PASS	
				LCH	PASS	
				MCH	PASS	
	HTLV	2	15	LCH	PASS	
				MCH	PASS	
				HCH	PASS	
		3	11	MCH	PASS	
				LCH	PASS	
				MCH	PASS	
	LTHV	2	15	LCH	PASS	
				MCH	PASS	
				HCH	PASS	
3		11	MCH	PASS		
			LCH	PASS		
			MCH	PASS		
LTLV	2	15	LCH	PASS		
			MCH	PASS		
			HCH	PASS		
	3	11	MCH	PASS		
			LCH	PASS		
			MCH	PASS		

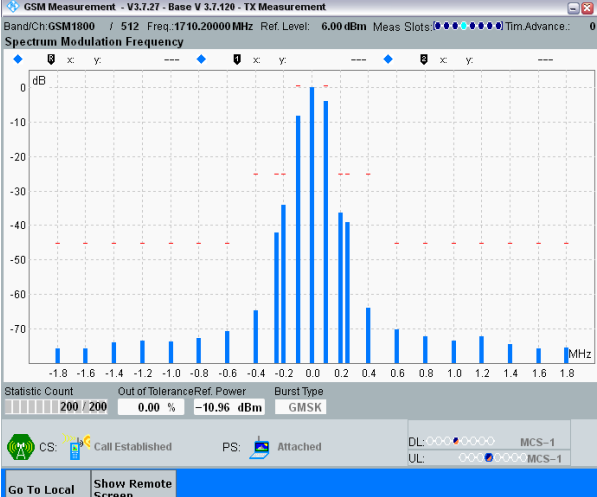
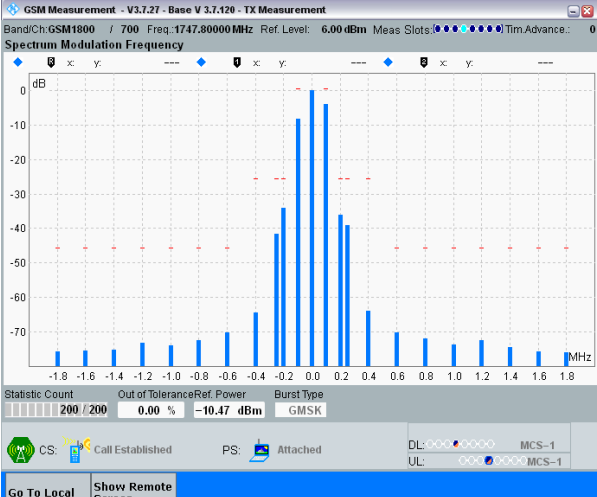
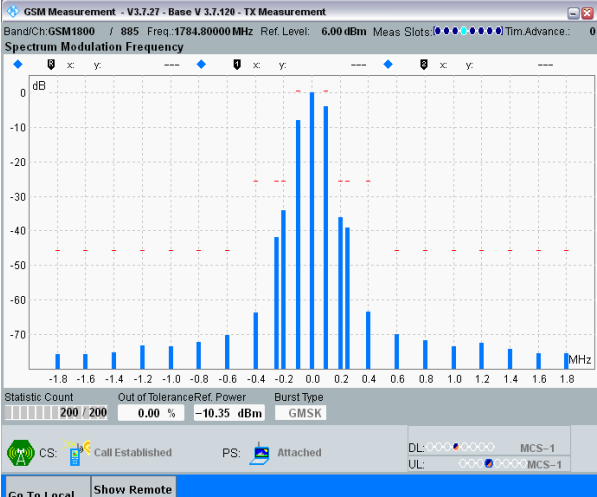
## 4.2 Test Graph

<p>NTNV GSM Frequency: 1710.2 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.120 - TX Measurement Band/Ch: GSM1800 / 512 Freq: 1710.20000 MHz Ref. Level: 6.00 dBm Meas Slots: 0 Tim. Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.96 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p>
<p>NTNV GSM Frequency: 1747.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.120 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 6.00 dBm Meas Slots: 0 Tim. Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.48 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p>
<p>NTNV GSM Frequency: 1784.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.120 - TX Measurement Band/Ch: GSM1800 / 885 Freq: 1784.80000 MHz Ref. Level: 6.00 dBm Meas Slots: 0 Tim. Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.32 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p>

<p>NTNV GSM Frequency: 1747.8 Spectrum Switching</p>	
<p>NTNV GSM Frequency: 1747.8 Spectrum Switching</p>	
<p>NTNV GSM Frequency: 1710.2 Spectrum Switching</p>	

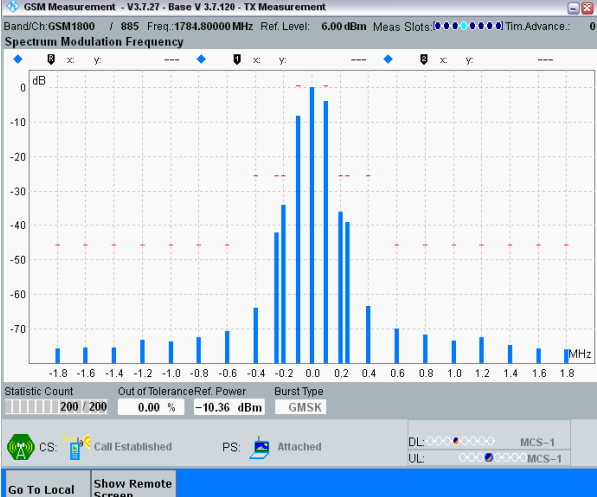
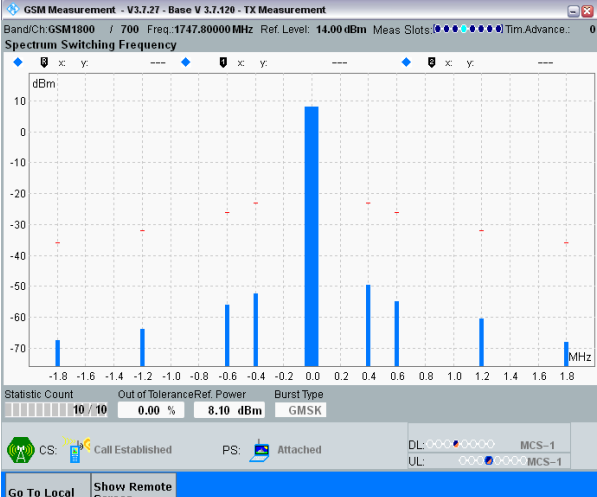
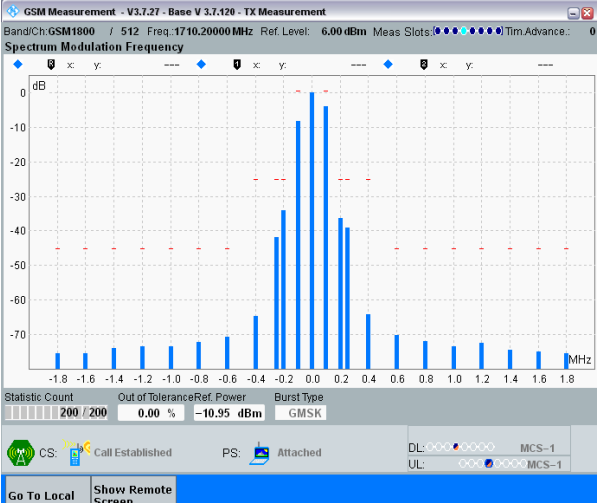
<p>NTNV GSM Frequency: 1747.8 Spectrum Switching</p>	
<p>NTNV GSM Frequency: 1784.8 Spectrum Switching</p>	
<p>HTHV GSM Frequency: 1710.2 Spectrum Modulation</p>	

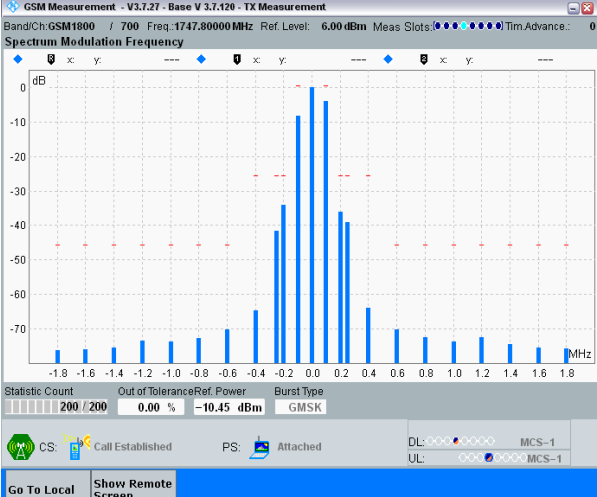
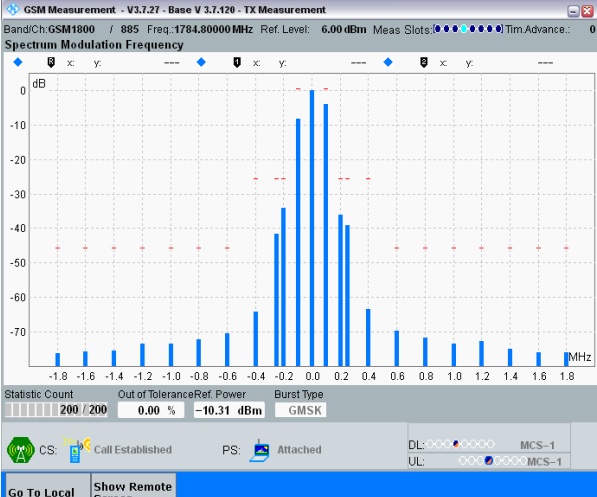
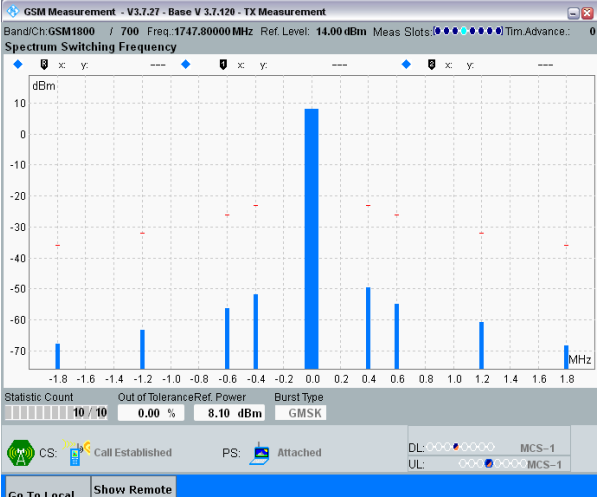
<p>HTHV GSM Frequency: 1747.8 Spectrum Modulation</p>	 <p><b>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement</b>  Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 6.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p><b>Spectrum Modulation Frequency</b></p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.40 dBm Burst Type: GSMK</p> <p>CS: [icon] Call Established PS: [icon] Attached DL: [icon] MCS-1 UL: [icon] MCS-1</p> <p>Go To Local Show Remote Screen</p>
<p>HTHV GSM Frequency: 1784.8 Spectrum Modulation</p>	 <p><b>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement</b>  Band/Ch: GSM1800 / 895 Freq: 1784.80000 MHz Ref. Level: 6.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p><b>Spectrum Modulation Frequency</b></p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.31 dBm Burst Type: GSMK</p> <p>CS: [icon] Call Established PS: [icon] Attached DL: [icon] MCS-1 UL: [icon] MCS-1</p> <p>Go To Local Show Remote Screen</p>
<p>HTHV GSM Frequency: 1747.8 Spectrum Switching</p>	 <p><b>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement</b>  Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 14.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p><b>Spectrum Switching Frequency</b></p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 8.09 dBm Burst Type: GSMK</p> <p>CS: [icon] Call Established PS: [icon] Attached DL: [icon] MCS-1 UL: [icon] MCS-1</p> <p>Go To Local Show Remote Screen</p>

<p>HTLV GSM Frequency: 1710.2 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 512 Freq: 1710.20000 MHz Ref. Level: 6.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.96 dBm Burst Type: GSMK</p> <p>CS: [icon] Call Established PS: [icon] Attached DL: [icon] MCS-1 UL: [icon] MCS-1</p> <p>Go To Local Show Remote Screen</p>
<p>HTLV GSM Frequency: 1747.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 6.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.47 dBm Burst Type: GSMK</p> <p>CS: [icon] Call Established PS: [icon] Attached DL: [icon] MCS-1 UL: [icon] MCS-1</p> <p>Go To Local Show Remote Screen</p>
<p>HTLV GSM Frequency: 1784.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 885 Freq: 1784.80000 MHz Ref. Level: 6.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.35 dBm Burst Type: GSMK</p> <p>CS: [icon] Call Established PS: [icon] Attached DL: [icon] MCS-1 UL: [icon] MCS-1</p> <p>Go To Local Show Remote Screen</p>



<p>HTLV GSM Frequency: 1747.8 Spectrum Switching</p>	<p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 14.00 dBm Meas Slots: 10 Tim Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10 / 10 Out of Tolerance Ref. Power: 0.00 % 8.10 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p>
<p>LTHV GSM Frequency: 1710.2 Spectrum Modulation</p>	<p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 512 Freq: 1710.20000 MHz Ref. Level: 6.00 dBm Meas Slots: 10 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance Ref. Power: 0.00 % -10.92 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p>
<p>LTHV GSM Frequency: 1747.8 Spectrum Modulation</p>	<p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 6.00 dBm Meas Slots: 10 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance Ref. Power: 0.00 % -10.43 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p>

<p>LTHV GSM Frequency: 1784.8 Spectrum Modulation</p>	
<p>LTHV GSM Frequency: 1747.8 Spectrum Switching</p>	
<p>LTLV GSM Frequency: 1710.2 Spectrum Modulation</p>	

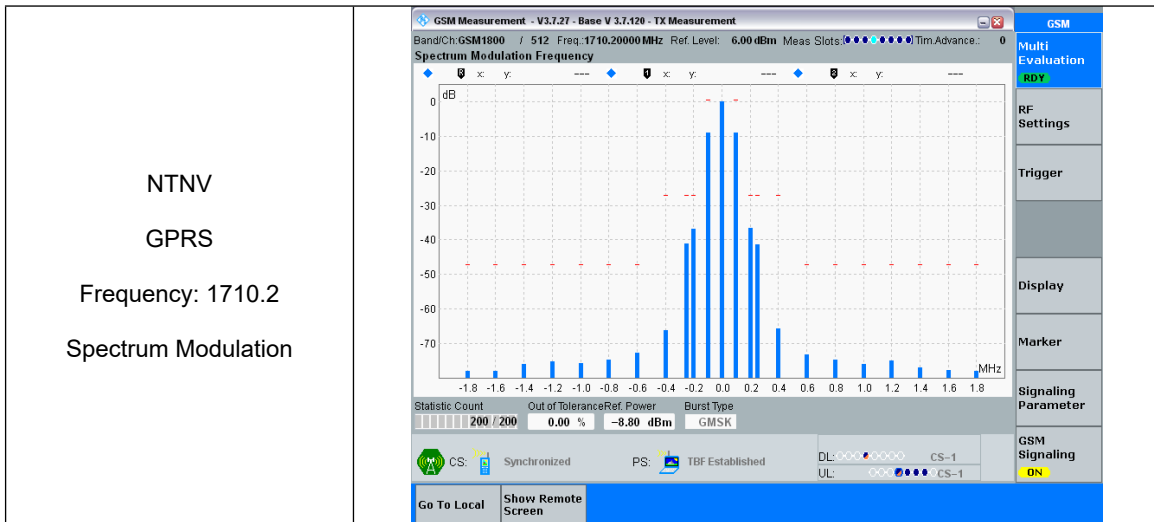
<p>LTLV GSM Frequency: 1747.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 6.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.45 dBm Burst Type: GSMK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p>
<p>LTLV GSM Frequency: 1784.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 895 Freq: 1784.80000 MHz Ref. Level: 6.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.31 dBm Burst Type: GSMK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p>
<p>LTLV GSM Frequency: 1747.8 Spectrum Switching</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 14.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 8.10 dBm Burst Type: GSMK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p>

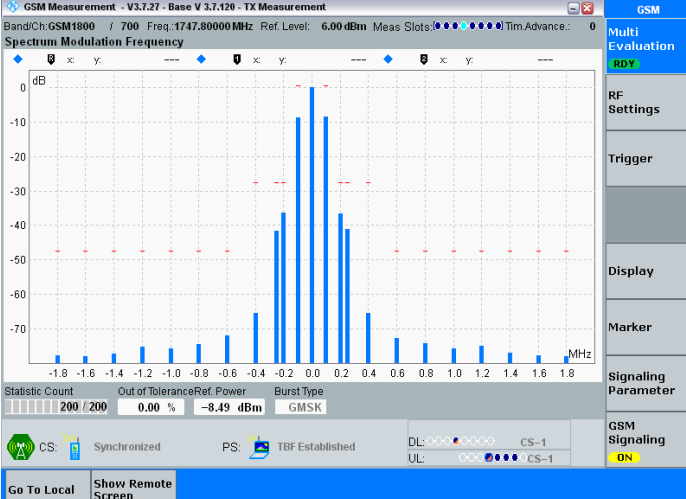
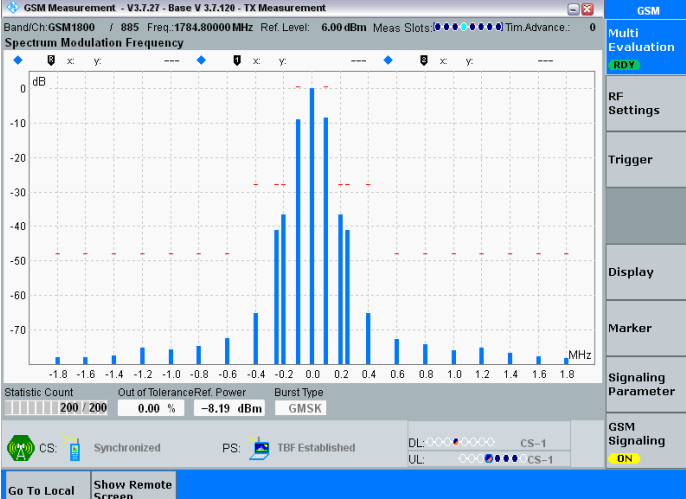
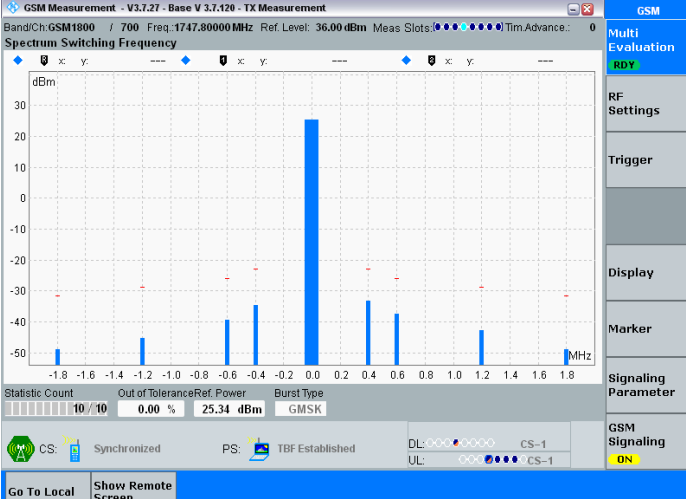
## 5. Output RF spectrum in GPRS multislot configuration

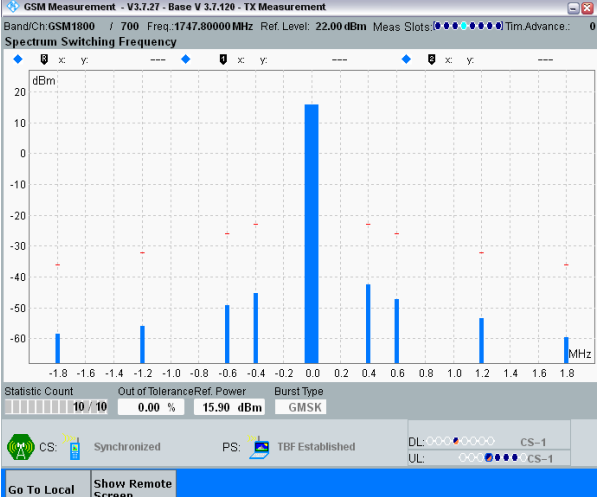
### 5.1 Test Result

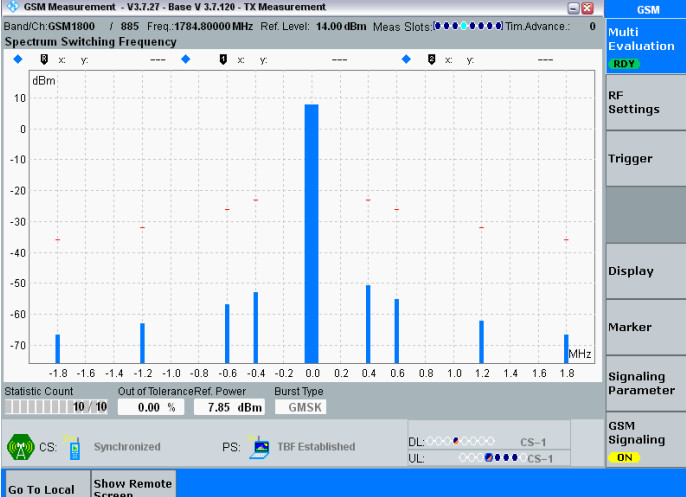
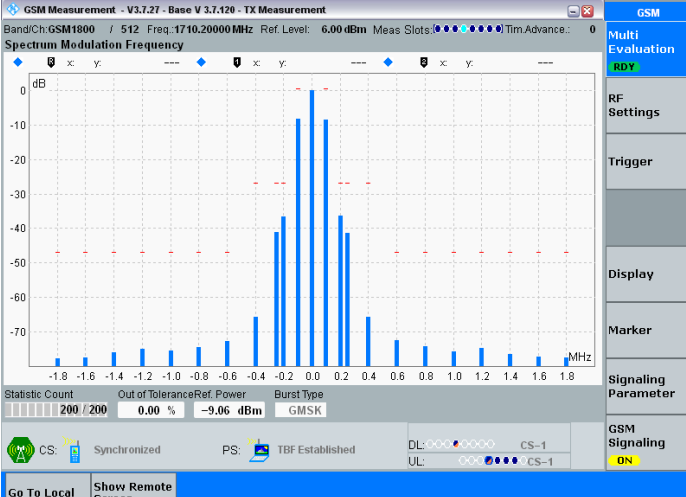
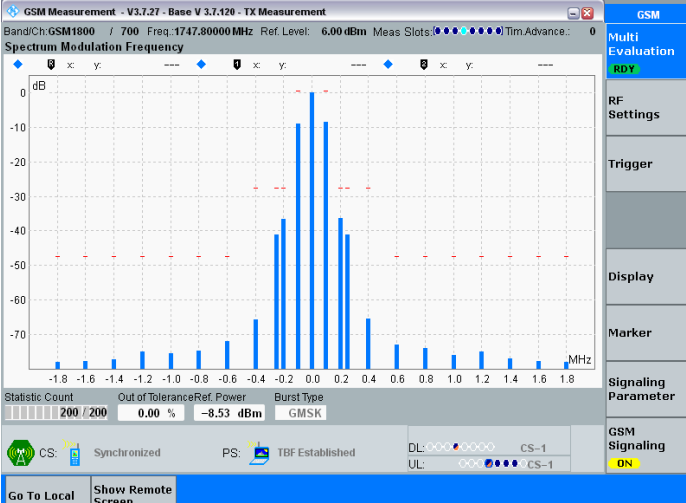
Test Mode	Test Condition	Case No.	GAMMA	Channel	Verdict
DCS1800	NTNV	1	03	MCH	PASS
		2	18	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	03	MCH	PASS
				10	MCH
			14	LCH	PASS
				MCH	PASS
				HCH	PASS
	HTHV		2	18	LCH
		3	14	MCH	PASS
				HCH	PASS
	HTLV	2	18	MCH	PASS
		3	14	HCH	PASS
				MCH	PASS
	LTHV	2	18	LCH	PASS
				MCH	PASS
		3	14	HCH	PASS
				MCH	PASS
	LTLV	2	18	LCH	PASS
				MCH	PASS
		3	14	HCH	PASS

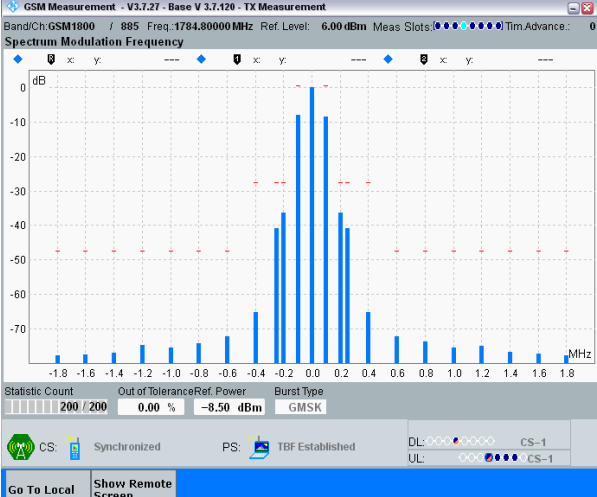
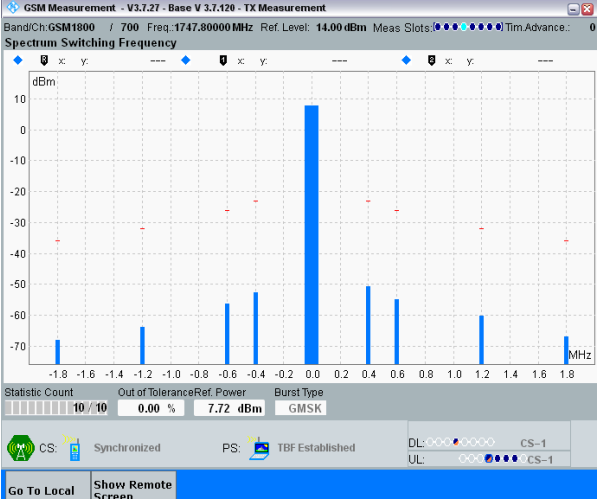
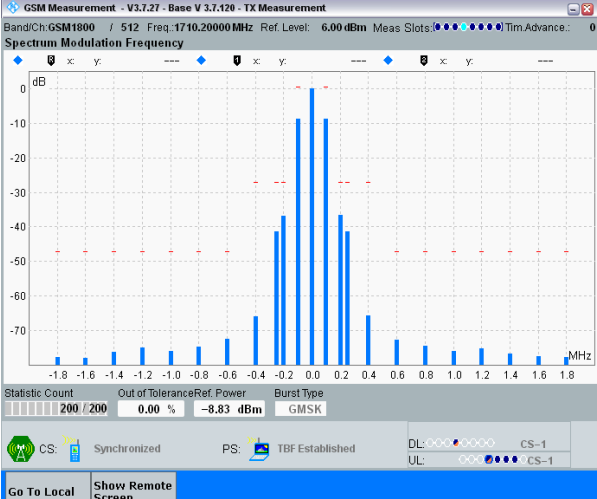
### 5.2 Test Graph



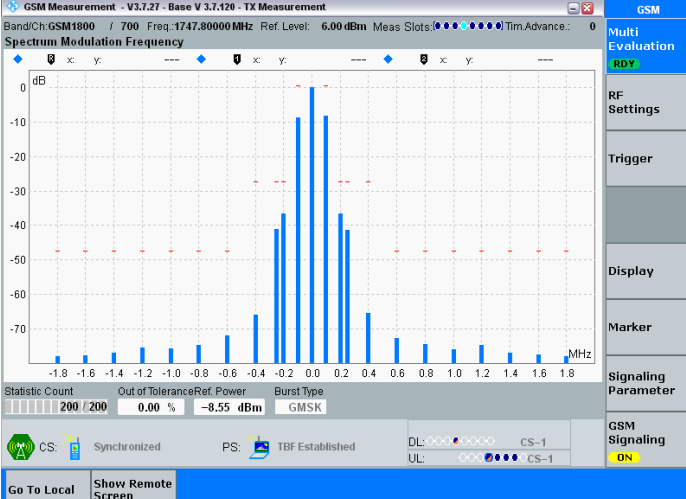
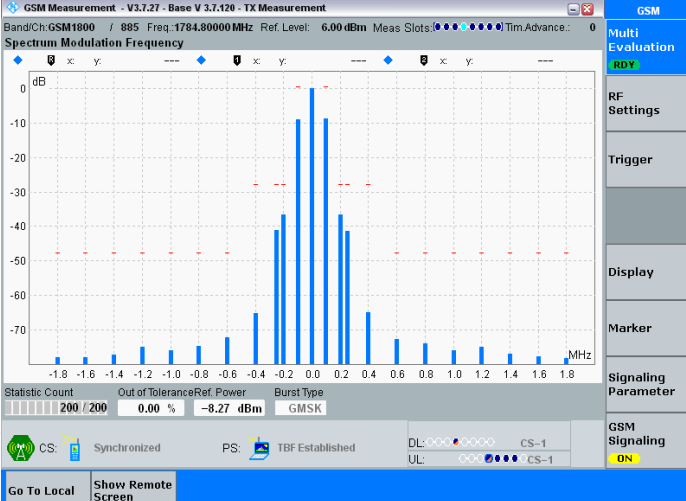
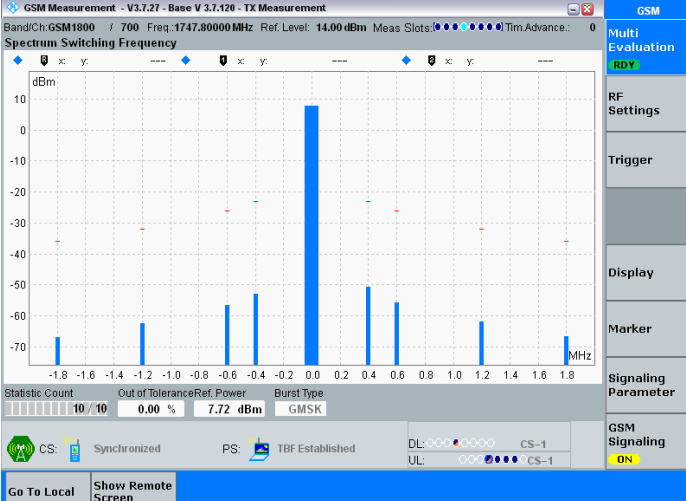
<p>NTNV GPRS Frequency: 1747.8 Spectrum Modulation</p>	
<p>NTNV GPRS Frequency: 1784.8 Spectrum Modulation</p>	
<p>NTNV GPRS Frequency: 1747.8 Spectrum Switching</p>	

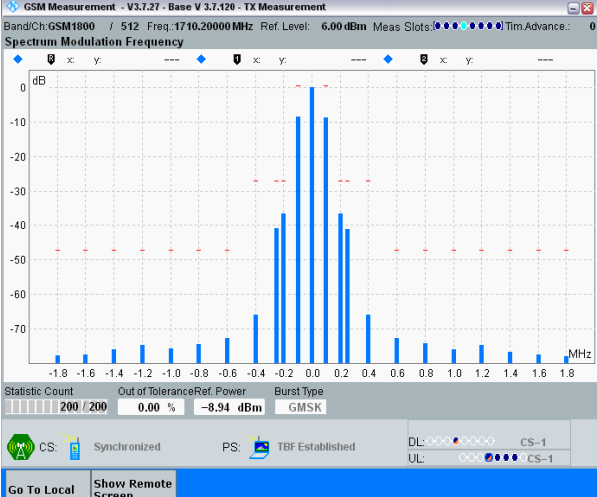
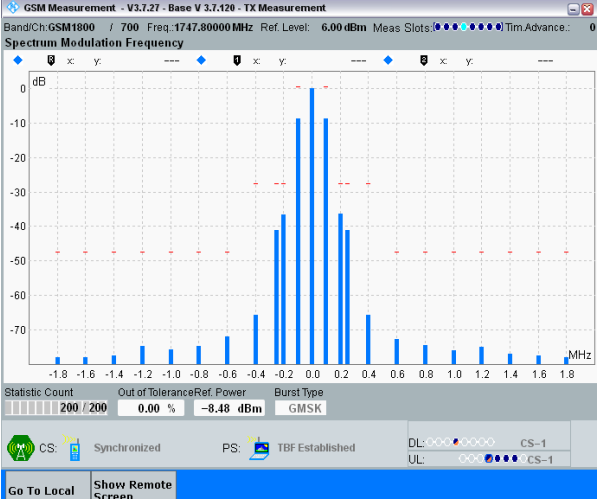
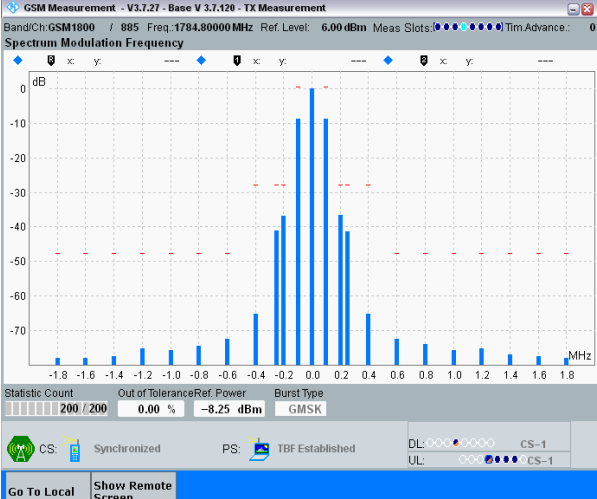
<p>NTNV GPRS Frequency: 1747.8 Spectrum Switching</p>	 <p><b>GSM</b></p> <ul style="list-style-type: none"> <li>Multi Evaluation: <b>RDY</b></li> <li>RF Settings</li> <li>Trigger</li> <li>Display</li> <li>Marker</li> <li>Signaling Parameter</li> <li>GSM Signaling: <b>ON</b></li> </ul> <p>Go To Local   Show Remote Screen</p>
<p>NTNV GPRS Frequency: 1710.2 Spectrum Switching</p>	 <p><b>GSM</b></p> <ul style="list-style-type: none"> <li>Multi Evaluation: <b>RDY</b></li> <li>RF Settings</li> <li>Trigger</li> <li>Display</li> <li>Marker</li> <li>Signaling Parameter</li> <li>GSM Signaling: <b>ON</b></li> </ul> <p>Go To Local   Show Remote Screen</p>
<p>NTNV GPRS Frequency: 1747.8 Spectrum Switching</p>	 <p><b>GSM</b></p> <ul style="list-style-type: none"> <li>Multi Evaluation: <b>RDY</b></li> <li>RF Settings</li> <li>Trigger</li> <li>Display</li> <li>Marker</li> <li>Signaling Parameter</li> <li>GSM Signaling: <b>ON</b></li> </ul> <p>Go To Local   Show Remote Screen</p>


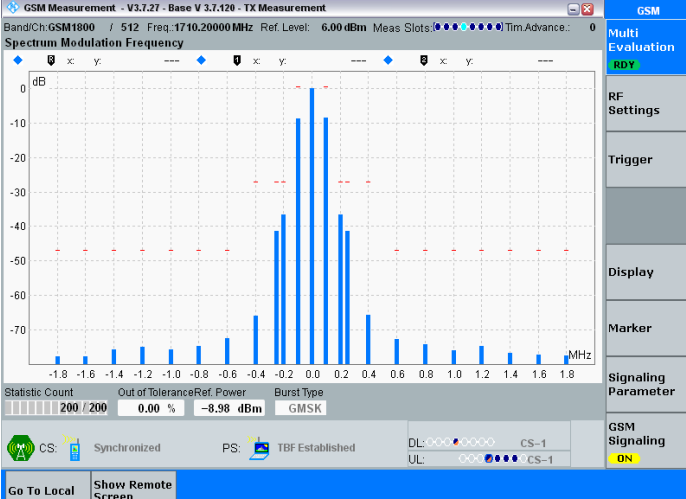
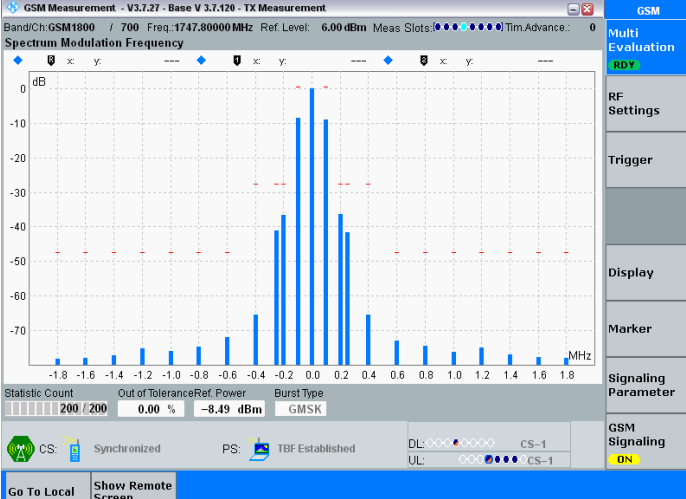
<p>NTNV GPRS Frequency: 1784.8 Spectrum Switching</p>	
<p>HTHV GPRS Frequency: 1710.2 Spectrum Modulation</p>	
<p>HTHV GPRS Frequency: 1747.8 Spectrum Modulation</p>	

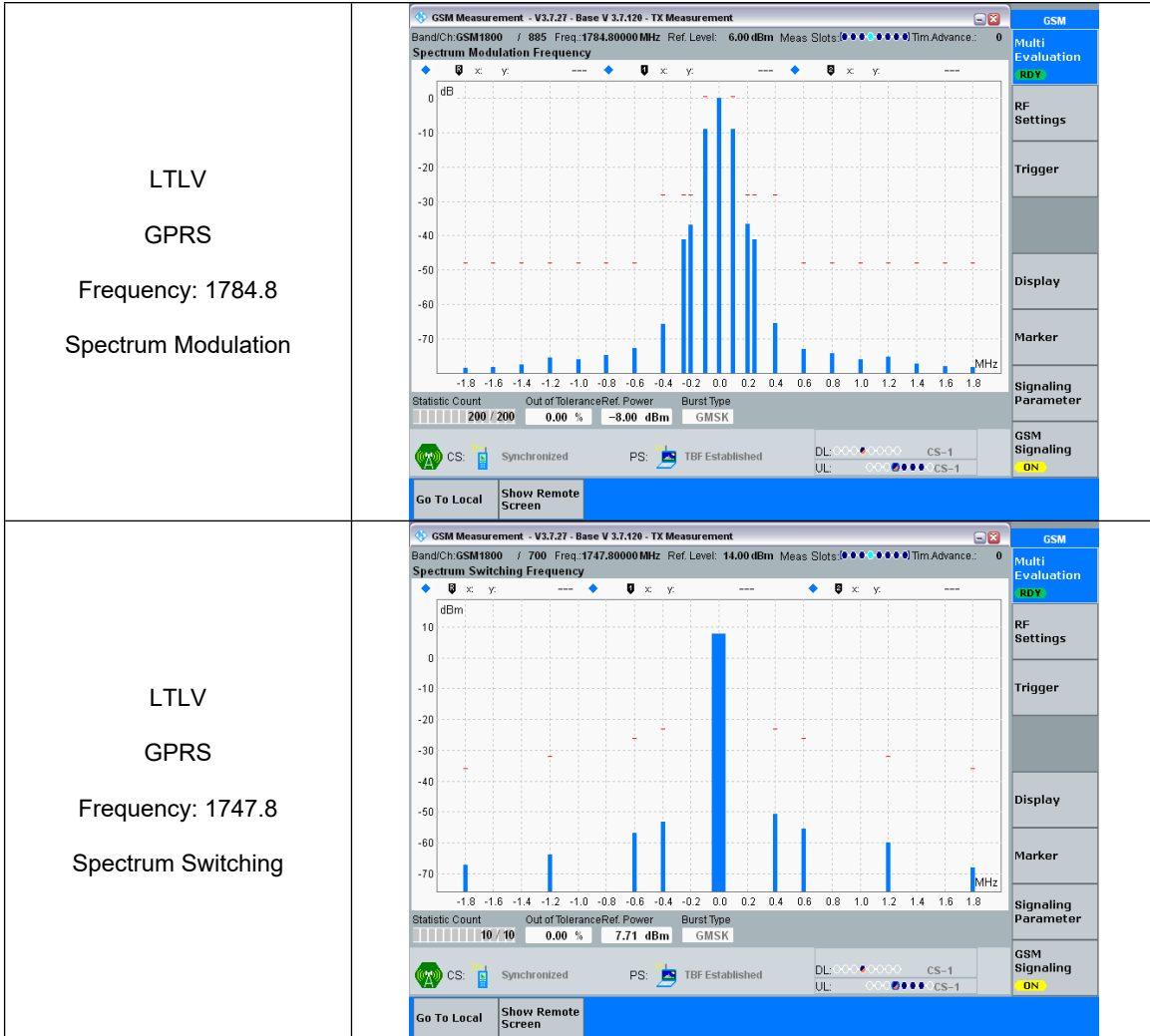
<p>HTHV GPRS Frequency: 1784.8 Spectrum Modulation</p>	
<p>HTHV GPRS Frequency: 1747.8 Spectrum Switching</p>	
<p>HTLV GPRS Frequency: 1710.2 Spectrum Modulation</p>	



<p>HTLV GPRS Frequency: 1747.8 Spectrum Modulation</p>	
<p>HTLV GPRS Frequency: 1784.8 Spectrum Modulation</p>	
<p>HTLV GPRS Frequency: 1747.8 Spectrum Switching</p>	

<p>LTHV GPRS Frequency: 1710.2 Spectrum Modulation</p>	
<p>LTHV GPRS Frequency: 1747.8 Spectrum Modulation</p>	
<p>LTHV GPRS Frequency: 1784.8 Spectrum Modulation</p>	

<p>LTHV GPRS Frequency: 1747.8 Spectrum Switching</p>	
<p>LTLV GPRS Frequency: 1710.2 Spectrum Modulation</p>	
<p>LTLV GPRS Frequency: 1747.8 Spectrum Modulation</p>	

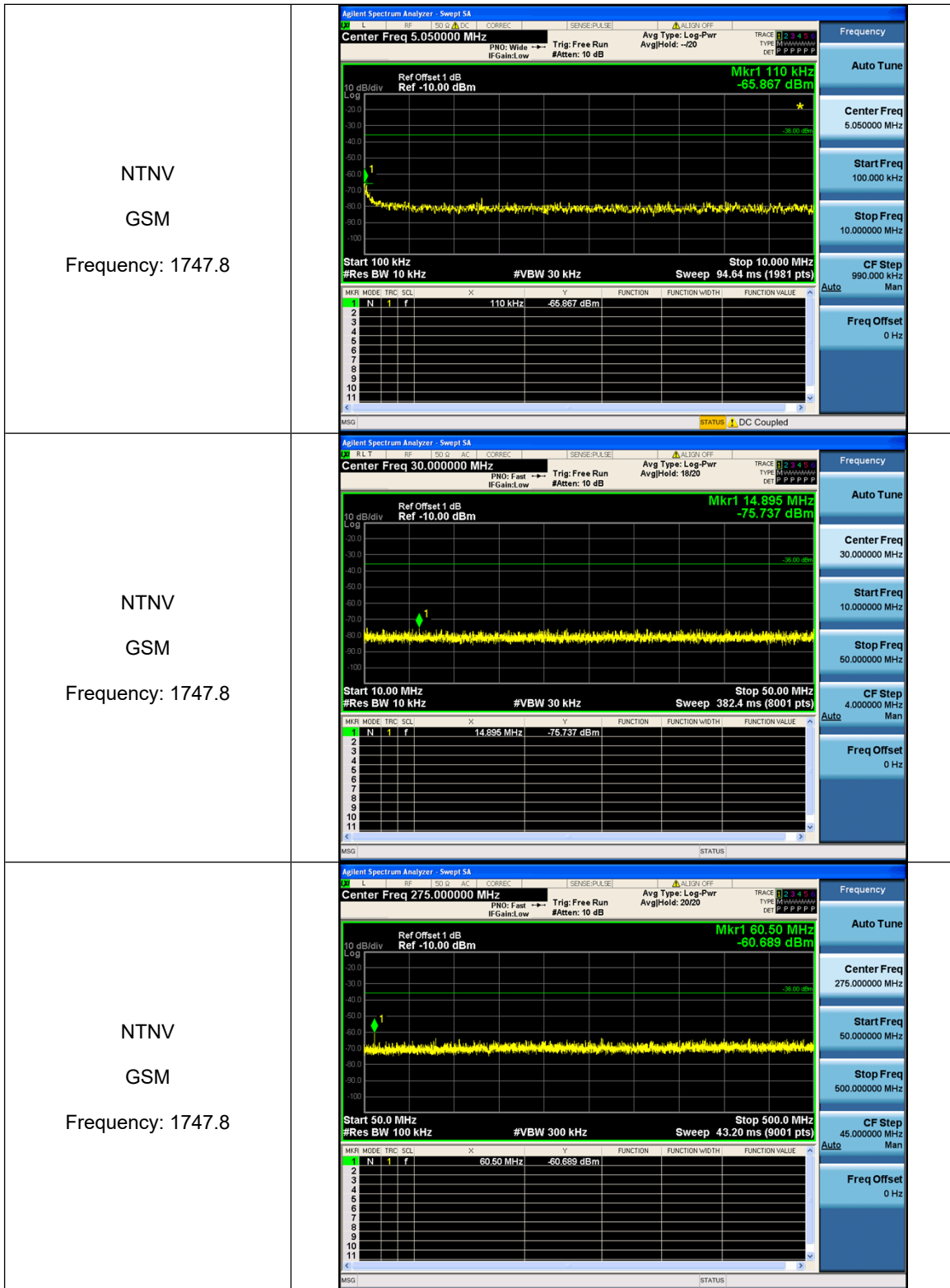


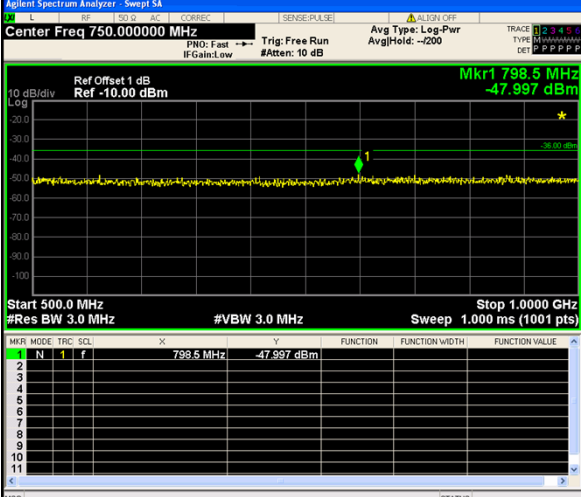
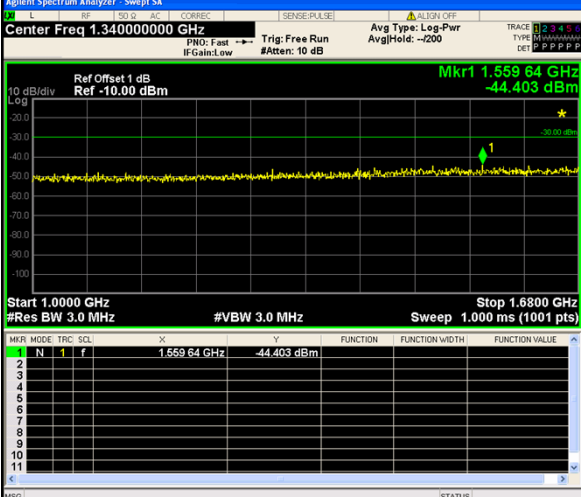
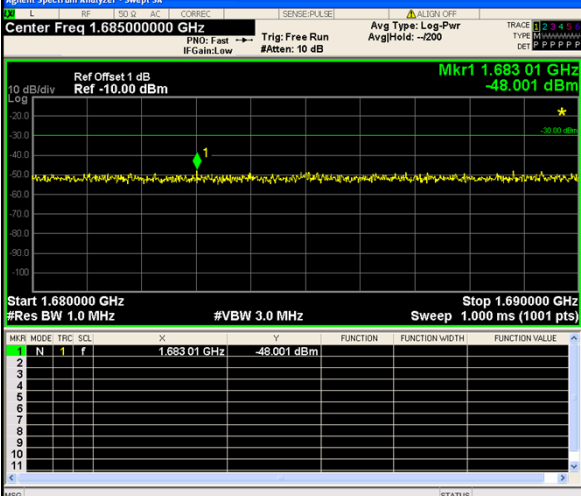
## 6. Conducted spurious emissions - MS allocated a channel

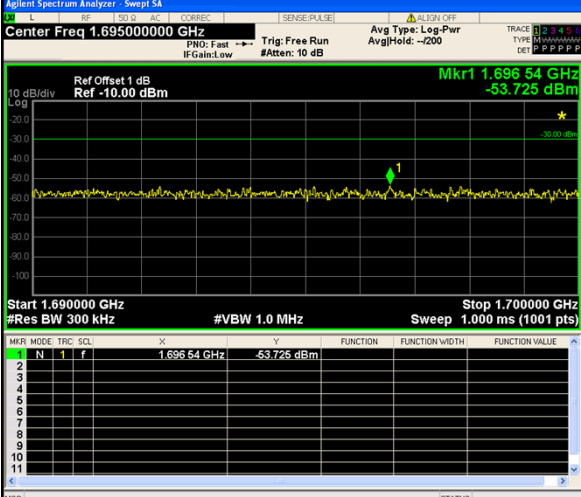
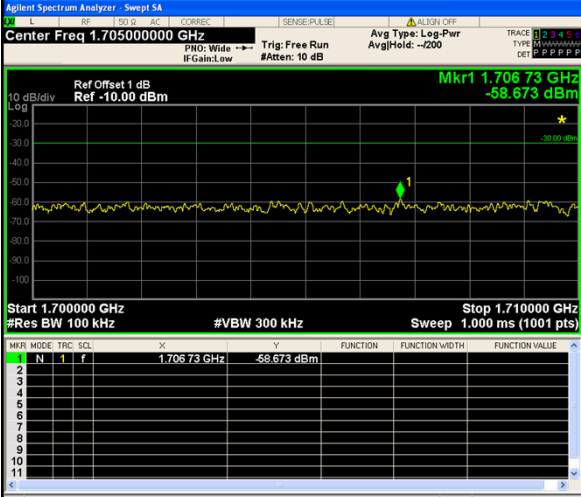
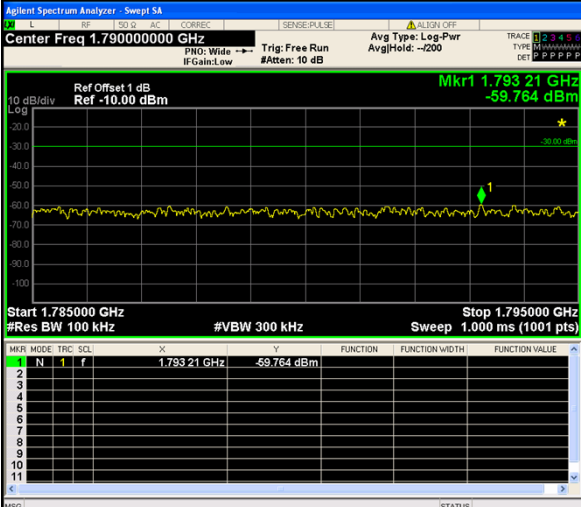
### 6.1 Test Result

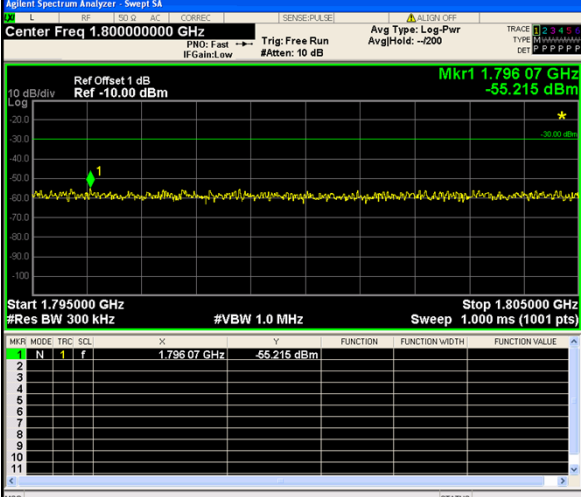
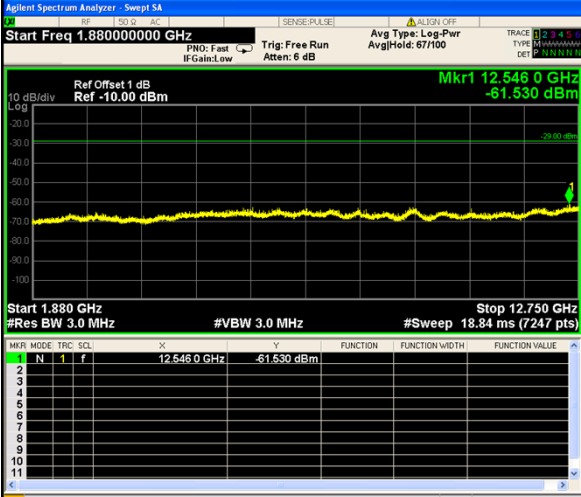
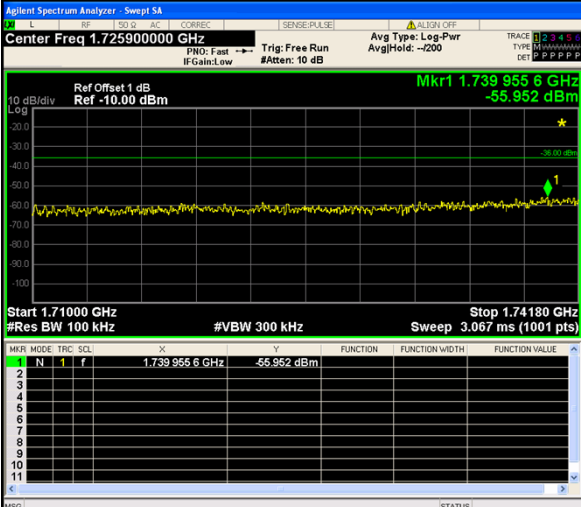
Test Mode	PCL	Channel	Test Condition	Verdict
DCS1800	0	MCH	NTNV	PASS

## 6.2 Test Graph



<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 750.000000 MHz</p> <p>Ref Offset 1 dB Ref -10.00 dBm</p> <p>Mkr1 798.5 MHz -47.997 dBm</p> <p>Start 500.0 MHz #Res BW 3.0 MHz</p> <p>Stop 1.0000 GHz #VBW 3.0 MHz</p> <p>Sweep 1.000 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>798.5 MHz</td> <td>-47.997 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	798.5 MHz	-47.997 dBm			
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE											
1	N	1	f	798.5 MHz	-47.997 dBm														
<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 1.34000000 GHz</p> <p>Ref Offset 1 dB Ref -10.00 dBm</p> <p>Mkr1 1.55964 GHz -44.403 dBm</p> <p>Start 1.0000 GHz #Res BW 3.0 MHz</p> <p>Stop 1.6800 GHz #VBW 3.0 MHz</p> <p>Sweep 1.000 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.55964 GHz</td> <td>-44.403 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.55964 GHz	-44.403 dBm			
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<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 1.68500000 GHz</p> <p>Ref Offset 1 dB Ref -10.00 dBm</p> <p>Mkr1 1.68301 GHz -48.001 dBm</p> <p>Start 1.680000 GHz #Res BW 1.0 MHz</p> <p>Stop 1.690000 GHz #VBW 3.0 MHz</p> <p>Sweep 1.000 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.68301 GHz</td> <td>-48.001 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.68301 GHz	-48.001 dBm			
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE											
1	N	1	f	1.68301 GHz	-48.001 dBm														

<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.69500000 GHz Mkr1 1.69654 GHz -53.725 dBm Start 1.690000 GHz #Res BW 300 kHz #VBW 1.0 MHz Stop 1.700000 GHz Sweep 1.000 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.69654 GHz</td> <td>-53.725 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.69654 GHz	-53.725 dBm			
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1	N	1	f	1.69654 GHz	-53.725 dBm														
<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.70500000 GHz Mkr1 1.70673 GHz -58.673 dBm Start 1.700000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 1.710000 GHz Sweep 1.000 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.70673 GHz</td> <td>-58.673 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.70673 GHz	-58.673 dBm			
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1	N	1	f	1.70673 GHz	-58.673 dBm														
<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.79000000 GHz Mkr1 1.79321 GHz -59.764 dBm Start 1.785000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 1.795000 GHz Sweep 1.000 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.79321 GHz</td> <td>-59.764 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.79321 GHz	-59.764 dBm			
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1	N	1	f	1.79321 GHz	-59.764 dBm														

<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 1.80000000 GHz</p> <p>Mkr1 1.796 07 GHz -55.215 dBm</p> <p>Start 1.795000 GHz #Res BW 300 kHz</p> <p>Stop 1.805000 GHz #VBW 1.0 MHz Sweep 1.000 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.796 07 GHz</td> <td>-55.215 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.796 07 GHz	-55.215 dBm			
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE											
1	N	1	f	1.796 07 GHz	-55.215 dBm														
<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Start Freq 1.88000000 GHz</p> <p>Mkr1 12.546 0 GHz -61.530 dBm</p> <p>Start 1.880 GHz #Res BW 3.0 MHz</p> <p>Stop 12.750 GHz #VBW 3.0 MHz #Sweep 18.84 ms (7247 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>12.546 0 GHz</td> <td>-61.530 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	12.546 0 GHz	-61.530 dBm			
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE											
1	N	1	f	12.546 0 GHz	-61.530 dBm														
<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 1.72590000 GHz</p> <p>Mkr1 1.739 955 6 GHz -55.952 dBm</p> <p>Start 1.71000 GHz #Res BW 100 kHz</p> <p>Stop 1.74180 GHz #VBW 300 kHz Sweep 3.067 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.739 955 6 GHz</td> <td>-55.952 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.739 955 6 GHz	-55.952 dBm			
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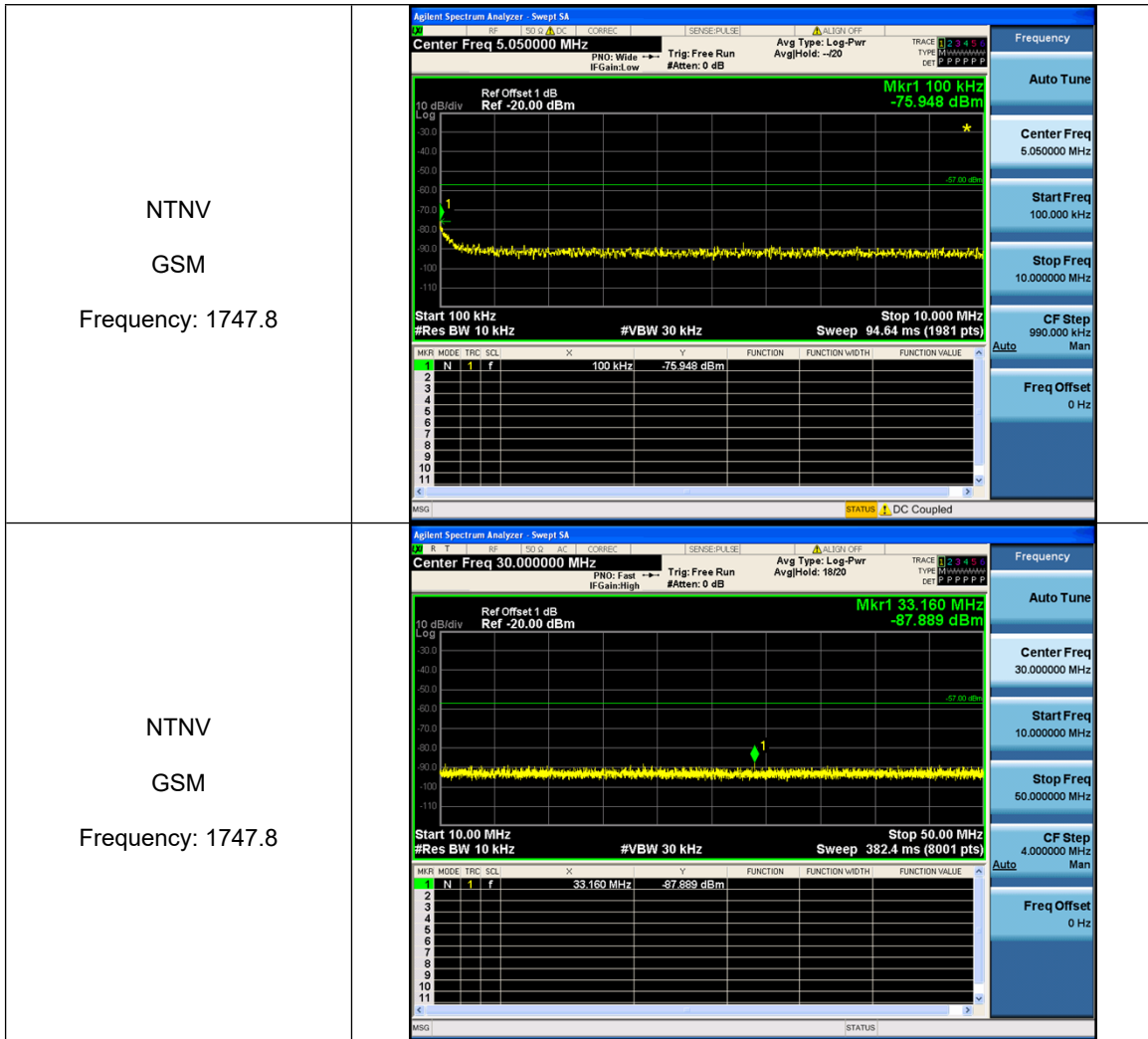
<p>NTNV GSM Frequency: 1747.8</p>	
<p>NTNV GSM Frequency: 1747.8</p>	
<p>NTNV GSM Frequency: 1747.8</p>	

## 7. Conducted spurious emissions - MS in idle mode

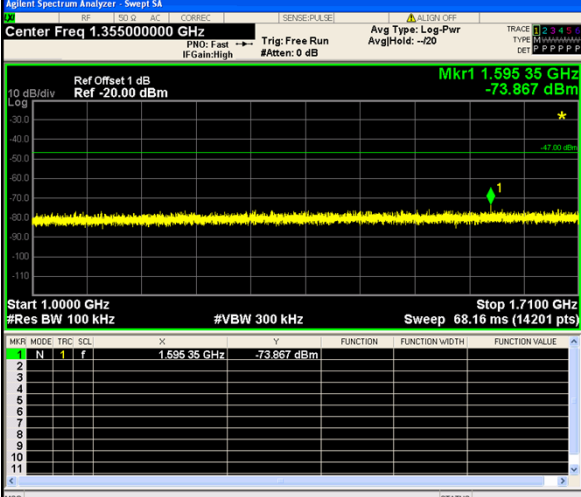
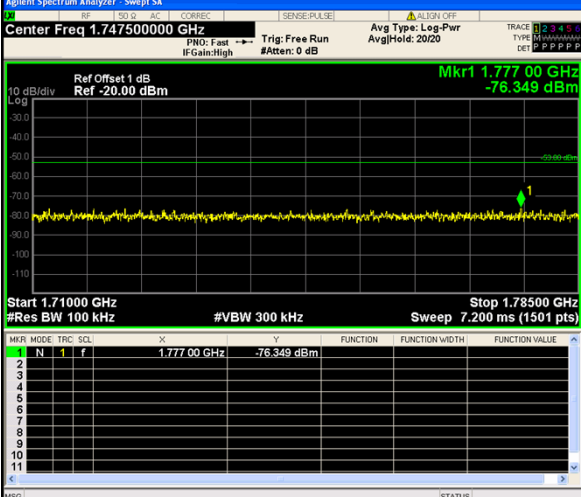
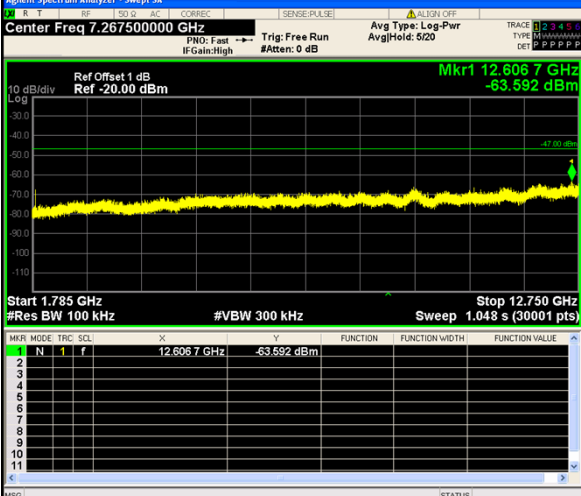
### 7.1 Test Result

Test Mode	Test Condition	Verdict
DCS1800	NTNV	PASS

### 7.2 Test Graph



<p style="text-align: center;">NTNV GSM Frequency: 1747.8</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 465.000000 MHz</p> <p>Ref Offset 1 dB Ref -20.00 dBm</p> <p>Mkr1 835.80 MHz -74.921 dBm</p> <p>Start 50.0 MHz #Res BW 100 kHz</p> <p>Stop 880.0 MHz #VBW 300 kHz</p> <p>Sweep 79.68 ms (16601 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRF</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>835.80 MHz</td> <td>-74.921 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRF	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	835.80 MHz	-74.921 dBm			
MKR	MODE	TRF	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE											
1	N	1	f	835.80 MHz	-74.921 dBm														
<p style="text-align: center;">NTNV GSM Frequency: 1747.8</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 897.500000 MHz</p> <p>Ref Offset 1 dB Ref -20.00 dBm</p> <p>Mkr1 908.560 MHz -77.459 dBm</p> <p>Start 880.0 MHz #Res BW 100 kHz</p> <p>Stop 915.0 MHz #VBW 300 kHz</p> <p>Sweep 3.400 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRF</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>908.560 MHz</td> <td>-77.459 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRF	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	908.560 MHz	-77.459 dBm			
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<p style="text-align: center;">NTNV GSM Frequency: 1747.8</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 957.500000 MHz</p> <p>Ref Offset 1 dB Ref -20.00 dBm</p> <p>Mkr1 948.75 MHz -75.582 dBm</p> <p>Start 915.0 MHz #Res BW 100 kHz</p> <p>Stop 1.000000 GHz #VBW 300 kHz</p> <p>Sweep 8.160 ms (1701 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRF</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>948.75 MHz</td> <td>-75.582 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRF	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	948.75 MHz	-75.582 dBm			
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<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.35500000 GHz Mkr1 1.59535 GHz -73.867 dBm Start 1.0000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 68.16 ms (14201 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRF</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.59535 GHz</td> <td>-73.867 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRF	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.59535 GHz	-73.867 dBm			
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1	N	1	f	1.59535 GHz	-73.867 dBm														
<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.74750000 GHz Mkr1 1.77700 GHz -76.349 dBm Start 1.71000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 7.200 ms (1501 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRF</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.77700 GHz</td> <td>-76.349 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRF	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.77700 GHz	-76.349 dBm			
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1	N	1	f	1.77700 GHz	-76.349 dBm														
<p>NTNV GSM Frequency: 1747.8</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 7.26750000 GHz Mkr1 12.6067 GHz -63.592 dBm Start 1.785 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.048 s (30001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRF</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>12.6067 GHz</td> <td>-63.592 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRF	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	12.6067 GHz	-63.592 dBm			
MKR	MODE	TRF	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE											
1	N	1	f	12.6067 GHz	-63.592 dBm														

## 8. Frequency error and Modulation accuracy in EGPRS Configuration

### 8.1 Test Result

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1710.2 (MHz) GAMMA=1	NTNV	12.17	171.02	PASS	RMS	1.61	5	PASS
					Peak	4.4	20	PASS
	HTHV	18.76	171.02	PASS	RMS	1.64	5	PASS
					Peak	4.58	20	PASS
	HTLV	18.92	171.02	PASS	RMS	1.66	5	PASS
					Peak	4.56	20	PASS
LTHV	12.66	171.02	PASS	RMS	1.58	5	PASS	
				Peak	4.34	20	PASS	
LTLV	12.01	171.02	PASS	RMS	1.62	5	PASS	
				Peak	4.4	20	PASS	
Vibration	10.69	171.02	PASS	RMS	1.61	5	PASS	
				Peak	4.39	20	PASS	

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1710.2 (MHz) GAMMA=1	NTNV	10.91	171.02	PASS	RMS	1.19	5	PASS
					Peak	3.03	20	PASS
	HTHV	10.3	171.02	PASS	RMS	1.15	5	PASS
					Peak	2.92	20	PASS
	HTLV	12.2	171.02	PASS	RMS	1.11	5	PASS
					Peak	2.85	20	PASS
LTHV	12.01	171.02	PASS	RMS	1.26	5	PASS	
				Peak	3.23	20	PASS	
LTLV	12.82	171.02	PASS	RMS	1.25	5	PASS	
				Peak	3.19	20	PASS	
Vibration	10.3	171.02	PASS	RMS	1.15	5	PASS	
				Peak	2.96	20	PASS	

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1710.2 (MHz) GAMMA=3	NTNV	8.2	171.02	PASS	RMS	1.1	5	PASS
					Peak	2.94	20	PASS
	HTHV	10.65	171.02	PASS	RMS	1.14	5	PASS
					Peak	3.13	20	PASS
	HTLV	11.27	171.02	PASS	RMS	1.14	5	PASS
					Peak	3.03	20	PASS
LTHV	8.91	171.02	PASS	RMS	1.1	5	PASS	
				Peak	2.96	20	PASS	
LTLV	9.69	171.02	PASS	RMS	1.13	5	PASS	
				Peak	3	20	PASS	
Vibration	9.2	171.02	PASS	RMS	1.1	5	PASS	
				Peak	2.93	20	PASS	

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1747.8	NTNV	7.04	174.78	PASS	RMS	1.63	5	PASS
					Peak	4.38	20	PASS
	HTHV	5	174.78	PASS	RMS	1.68	5	PASS
					Peak	4.63	20	PASS

(MHz) GAMMA=1	HTLV	6.36	174.78	PASS	RMS	1.68	5	PASS
					Peak	4.52	20	PASS
	LTHV	7.07	174.78	PASS	RMS	1.72	5	PASS
					Peak	4.6	20	PASS
	LTLV	5.88	174.78	PASS	RMS	1.73	5	PASS
					Peak	4.68	20	PASS
	Vibration	6.1	174.78	PASS	RMS	1.67	5	PASS
					Peak	4.66	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 1747.8 (MHz) GAMMA=1	NTNV	7.97	174.78	PASS	RMS	1.29	5	PASS
					Peak	3.29	20	PASS
	HTHV	7.88	174.78	PASS	RMS	1.36	5	PASS
					Peak	3.41	20	PASS
	HTLV	9.33	174.78	PASS	RMS	1.31	5	PASS
					Peak	3.34	20	PASS
	LTHV	9.81	174.78	PASS	RMS	1.34	5	PASS
					Peak	3.44	20	PASS
	LTLV	9.07	174.78	PASS	RMS	1.32	5	PASS
					Peak	3.38	20	PASS
	Vibration	6.72	174.78	PASS	RMS	1.29	5	PASS
					Peak	3.24	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 1747.8 (MHz) GAMMA=3	NTNV	6.94	174.78	PASS	RMS	1.18	5	PASS
					Peak	3.17	20	PASS
	HTHV	6.49	174.78	PASS	RMS	1.28	5	PASS
					Peak	3.39	20	PASS
	HTLV	7.07	174.78	PASS	RMS	1.14	5	PASS
					Peak	3.02	20	PASS
	LTHV	8.88	174.78	PASS	RMS	0.97	5	PASS
					Peak	2.61	20	PASS
	LTLV	6.68	174.78	PASS	RMS	1.12	5	PASS
					Peak	3.02	20	PASS
	Vibration	5.81	174.78	PASS	RMS	1.03	5	PASS
					Peak	2.75	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 1784.8 (MHz) GAMMA=1	NTNV	12.07	178.48	PASS	RMS	1.66	5	PASS
					Peak	4.45	20	PASS
	HTHV	10.94	178.48	PASS	RMS	1.5	5	PASS
					Peak	4.03	20	PASS
	HTLV	10.56	178.48	PASS	RMS	1.53	5	PASS
					Peak	4.14	20	PASS
	LTHV	12.53	178.48	PASS	RMS	1.61	5	PASS
					Peak	4.35	20	PASS
	LTLV	9.65	178.48	PASS	RMS	1.61	5	PASS
					Peak	4.27	20	PASS
	Vibration	11.3	178.48	PASS	RMS	1.63	5	PASS
					Peak	4.37	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1784.8 (MHz) GAMMA=1	NTNV	14.04	178.48	PASS	RMS	1.32	5	PASS
					Peak	3.37	20	PASS
	HTHV	12.07	178.48	PASS	RMS	1.32	5	PASS
					Peak	3.34	20	PASS
	HTLV	12.17	178.48	PASS	RMS	1.32	5	PASS
					Peak	3.29	20	PASS
	LTHV	9.88	178.48	PASS	RMS	1.36	5	PASS
					Peak	3.45	20	PASS
	LTLV	9.17	178.48	PASS	RMS	1.36	5	PASS
					Peak	3.46	20	PASS
	Vibration	11.78	178.48	PASS	RMS	1.27	5	PASS
					Peak	3.25	20	PASS

DCS1800	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
					RMS	Peak		
Reference Frequency 1784.8 (MHz) GAMMA=3	NTNV	11.75	178.48	PASS	RMS	1.31	5	PASS
					Peak	3.46	20	PASS
	HTHV	10.33	178.48	PASS	RMS	1.13	5	PASS
					Peak	3.01	20	PASS
	HTLV	10.3	178.48	PASS	RMS	1.17	5	PASS
					Peak	3.06	20	PASS
	LTHV	8.39	178.48	PASS	RMS	1.19	5	PASS
					Peak	3.13	20	PASS
	LTLV	10.59	178.48	PASS	RMS	1.27	5	PASS
					Peak	3.34	20	PASS
	Vibration	11.66	178.48	PASS	RMS	1.31	5	PASS
					Peak	3.41	20	PASS

## 9. Frequency error under multipath and interference conditions in EGPRS Configuration

### 9.1 Test Result

DCS1800	Test Condition	Fading Set	Frequency error(Hz)			Limit (Hz)	Verdict
			LCH 880.2MHz	LCH 902MHz	LCH 914.8MHz		
DCS1800 PCL=3	NTNV	RA130	8.62	-1.42	5.07	±400	PASS
		HT100	8.68	-1.65	7.81	±350	PASS
		TU50	6.01	1.16	6.52	±260	PASS
		TUlow	4.26	1.13	7.26	±320	PASS
	HTHV	RA130	7.68	0.97	5.94	±400	PASS
		HT100	14.69	3.45	5	±350	PASS
		TU50	4.84	2.84	5.71	±260	PASS
		TUlow	5.39	0.65	5.88	±320	PASS
	HTLV	RA130	5.59	0.48	6.2	±400	PASS
		HT100	11.98	1.81	2.62	±350	PASS
		TU50	5.62	3.33	6.07	±260	PASS
		TUlow	3.49	1.49	5.65	±320	PASS
	LTHV	RA130	6.39	3.91	4.23	±400	PASS
		HT100	9.65	-0.13	6.2	±350	PASS
		TU50	5.13	1.45	4.84	±260	PASS
		TUlow	1.94	1.84	2.94	±320	PASS

	LTLV	RA130	7.04	1.32	7.91	±400	PASS
		HT100	8.65	1.49	8.36	±350	PASS
		TU50	7.43	4.68	6.59	±260	PASS
		TUlow	1.61	-0.42	4.16	±320	PASS

## 10. Output RF spectrum in EGPRS configuration

### 10.1 Test Result

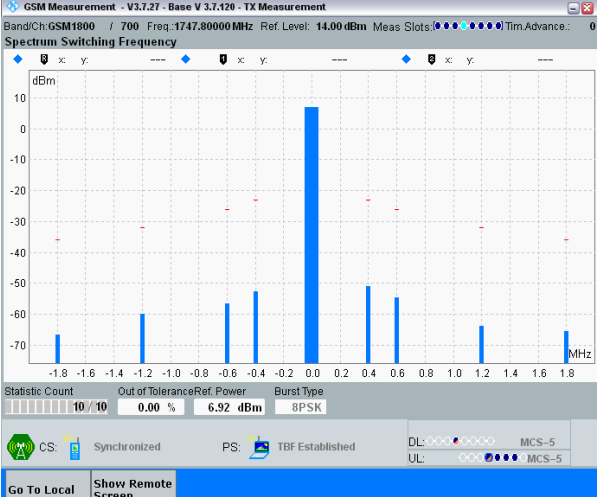
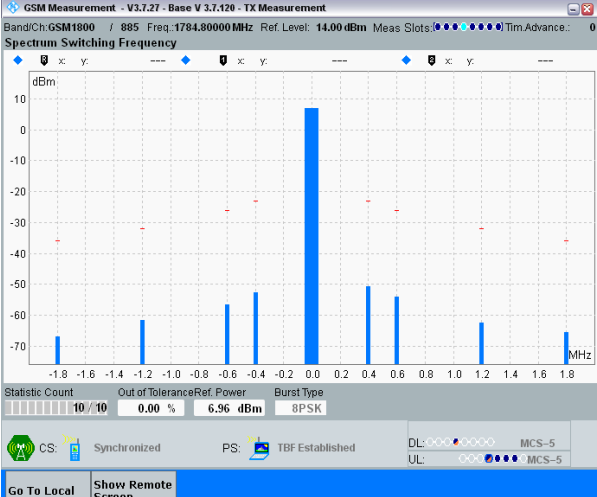
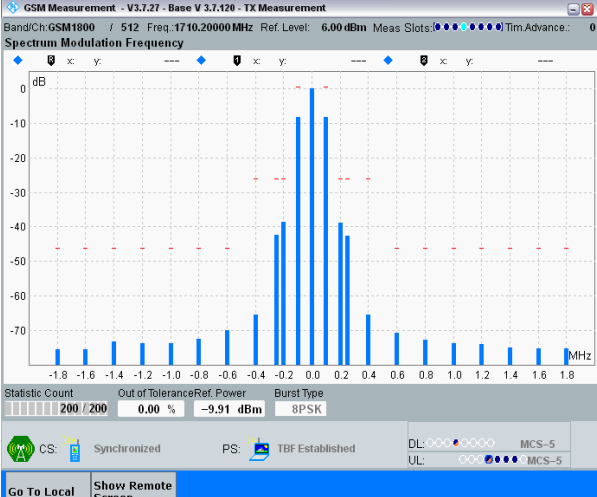
Test Mode	Test Condition	Case No.	PCL	Channel	Verdict
DCS1800	NTNV	1	03	MCH	PASS
		2	18	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	03	MCH	PASS
				10	MCH
			14	LCH	PASS
				MCH	PASS
				HCH	PASS
	HTHV		2	18	LCH
		MCH			PASS
		HCH			PASS
	3	14	MCH	PASS	
			LCH	PASS	
			MCH	PASS	
	HTLV	2	18	MCH	PASS
				HCH	PASS
		3	14	MCH	PASS
				LCH	PASS
	LTHV	2	18	MCH	PASS
				HCH	PASS
3		14	MCH	PASS	
			LCH	PASS	
LTLV	2	18	MCH	PASS	
			HCH	PASS	
			3	14	MCH

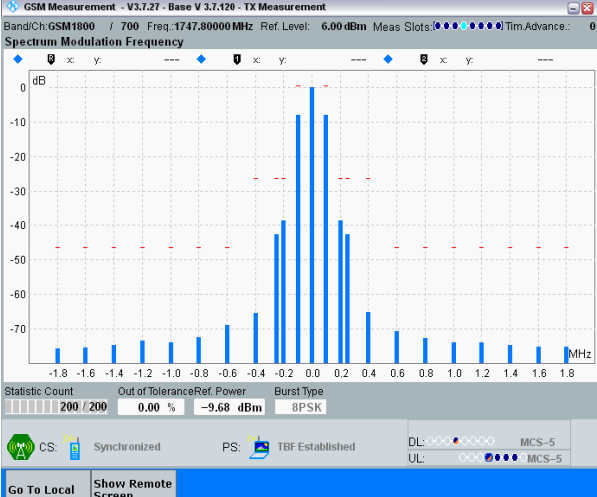
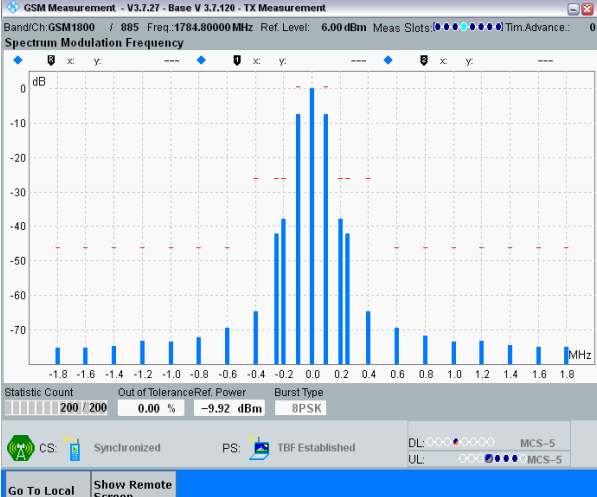
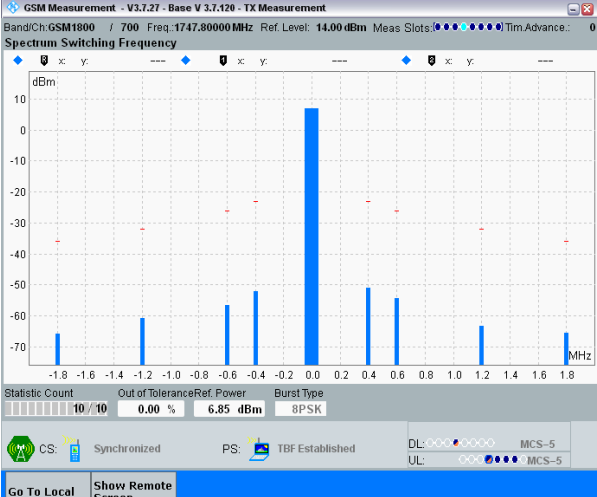


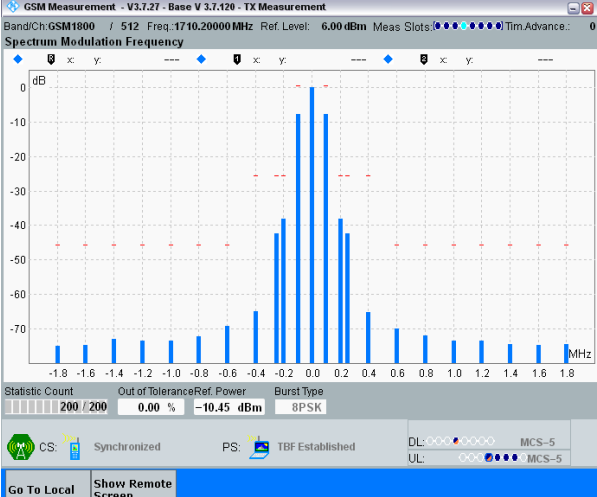
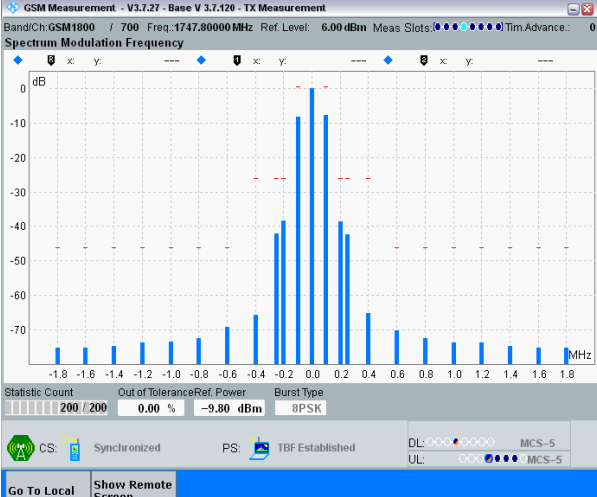
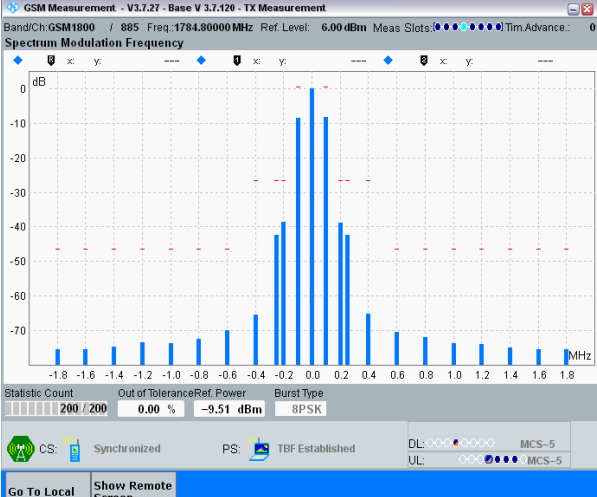
## 10.2 Test Graph

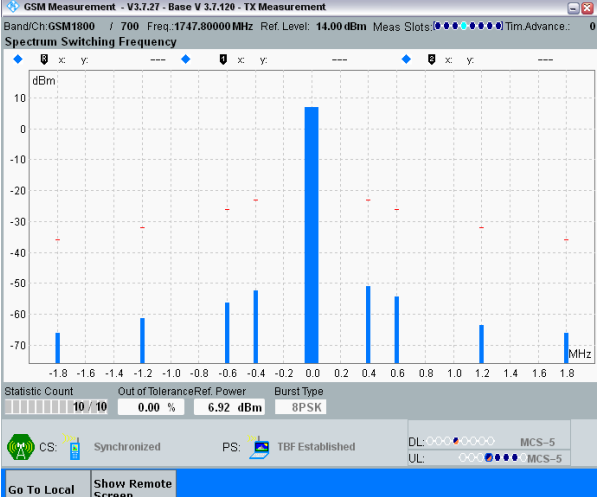
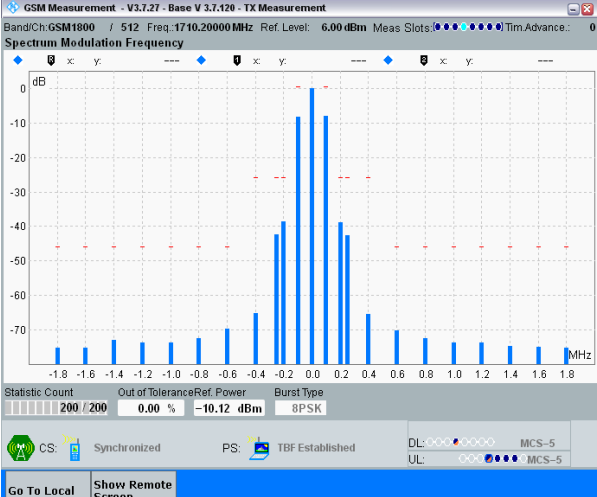
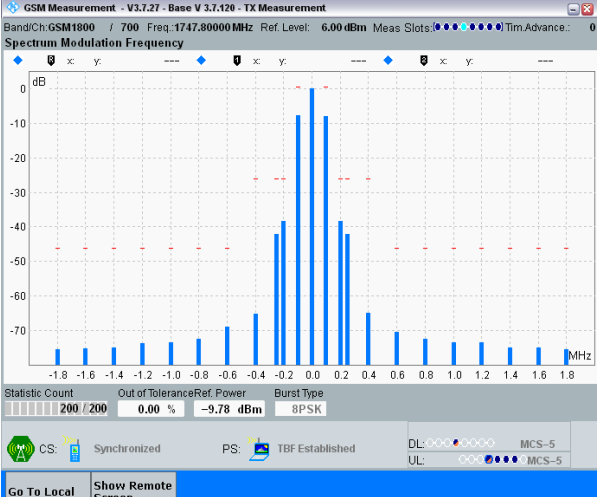
<p>NTNV EGPRS Frequency: 1710.2 Spectrum Modulation</p>	
<p>NTNV EGPRS Frequency: 1747.8 Spectrum Modulation</p>	
<p>NTNV EGPRS Frequency: 1784.8 Spectrum Modulation</p>	

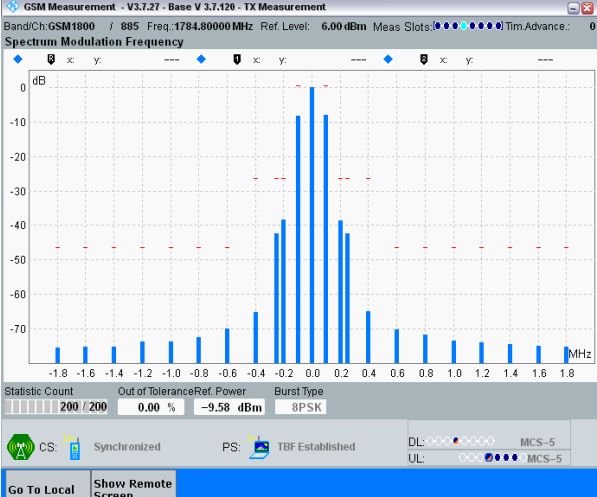
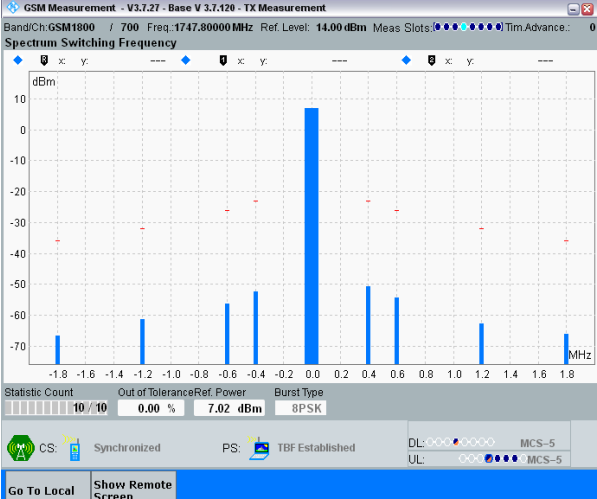
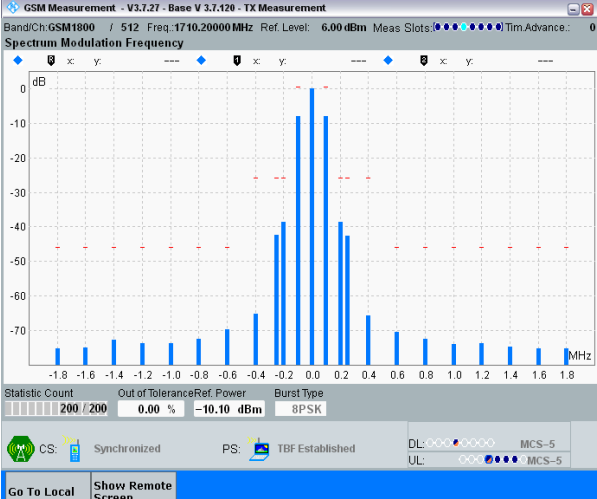
<p>NTNV EGPRS Frequency: 1747.8 Spectrum Switching</p>	<p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 36.00 dBm Meas Slots: 10 Tim. Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10/10 Out of Tolerance: 0.00 % Ref. Power: 20.02 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>
<p>NTNV EGPRS Frequency: 1747.8 Spectrum Switching</p>	<p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 22.00 dBm Meas Slots: 10 Tim. Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10/10 Out of Tolerance: 0.00 % Ref. Power: 15.48 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>
<p>NTNV EGPRS Frequency: 1710.2 Spectrum Switching</p>	<p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 512 Freq: 1710.20000 MHz Ref. Level: 14.00 dBm Meas Slots: 10 Tim. Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10/10 Out of Tolerance: 0.00 % Ref. Power: 6.67 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>

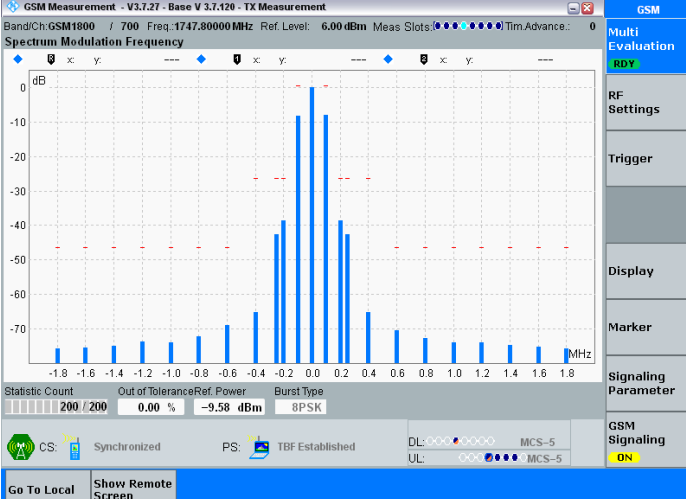
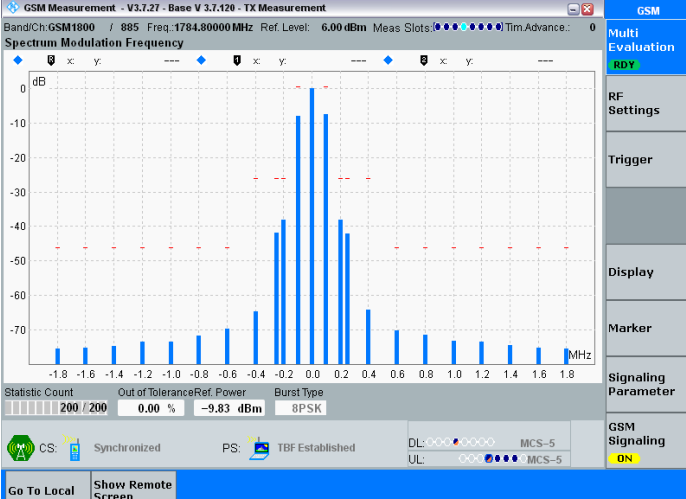
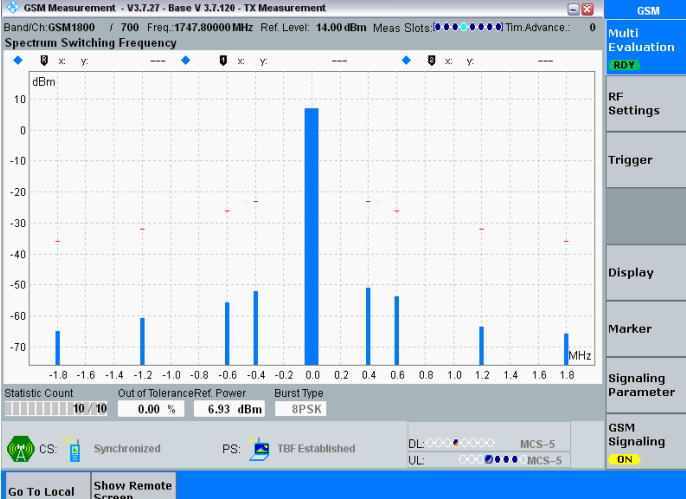
<p>NTNV EGPRS Frequency: 1747.8 Spectrum Switching</p>	 <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 6.92 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>
<p>NTNV EGPRS Frequency: 1784.8 Spectrum Switching</p>	 <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 6.96 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>
<p>HTHV EGPRS Frequency: 1710.2 Spectrum Modulation</p>	 <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -9.91 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>

<p>HTHV EGPRS Frequency: 1747.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 6.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -9.68 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>
<p>HTHV EGPRS Frequency: 1784.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 895 Freq: 1784.80000 MHz Ref. Level: 6.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -9.92 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>
<p>HTHV EGPRS Frequency: 1747.8 Spectrum Switching</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 14.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 6.85 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>

<p>HTLV EGPRS Frequency: 1710.2 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 512 Freq: 1710.20000 MHz Ref. Level: 6.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.45 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>
<p>HTLV EGPRS Frequency: 1747.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 6.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -9.80 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>
<p>HTLV EGPRS Frequency: 1784.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 885 Freq: 1784.80000 MHz Ref. Level: 6.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -9.51 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>

<p>HTLV EGPRS Frequency: 1747.8 Spectrum Switching</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 14.00 dBm Meas Slots: 10 Tim Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 6.92 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>
<p>LTHV EGPRS Frequency: 1710.2 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 512 Freq: 1710.20000 MHz Ref. Level: 6.00 dBm Meas Slots: 10 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -10.12 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>
<p>LTHV EGPRS Frequency: 1747.8 Spectrum Modulation</p>	 <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM1800 / 700 Freq: 1747.80000 MHz Ref. Level: 6.00 dBm Meas Slots: 10 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -9.78 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p>

<p>LTHV EGPRS Frequency: 1784.8 Spectrum Modulation</p>	
<p>LTHV EGPRS Frequency: 1747.8 Spectrum Switching</p>	
<p>LTLV EGPRS Frequency: 1710.2 Spectrum Modulation</p>	

<p>LTLV EGPRS Frequency: 1747.8 Spectrum Modulation</p>	
<p>LTLV EGPRS Frequency: 1784.8 Spectrum Modulation</p>	
<p>LTLV EGPRS Frequency: 1747.8 Spectrum Switching</p>	



## 11. Inter-modulation rejection - control channels

### 11.1 Test Result

Test Mode	PCL	Test Condition	Channel	Verdict
DCS1800	0	NTNV	LCH	PASS
			MCH	PASS
			HCH	PASS
		HTHV	LCH	PASS
			MCH	PASS
			HCH	PASS
		HTLV	LCH	PASS
			MCH	PASS
			HCH	PASS
		LTHV	LCH	PASS
			MCH	PASS
			HCH	PASS
LTLV	LCH	PASS		
	MCH	PASS		
	HCH	PASS		

## 12. Inter-modulation rejection - EGPRS

### 12.1 Test Result

Test Mode	Test Item	GAMMA	Test Condition	Channel	Coding	Verdict
DCS1800	BLER	3	NTNV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC1	PASS
					MC2	PASS
					MC3	PASS
					MC4	PASS
					MC5	PASS
					MC6	PASS
					MC7	PASS
					MC8	PASS
				MC9	PASS	
				HCH	MC4	PASS
			MC9		PASS	
			HTHV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS
			HTLV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS
				HCH	MC4	PASS
MC9	PASS					
LTHV	LCH	MC4	PASS			
		MC9	PASS			
	MCH	MC4	PASS			
		MC9	PASS			
	HCH	MC4	PASS			
		MC9	PASS			

					MC9	PASS
			LTLV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS

Test Mode	Test Item	GAMMA	Test Condition	Channel	Coding	Verdict
DCS1800	USF BLER	3	NTNV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC1	PASS
					MC2	PASS
					MC3	PASS
					MC4	PASS
					MC5	PASS
					MC6	PASS
					MC7	PASS
					MC8	PASS
				HCH	MC9	PASS
					MC4	PASS
			HTHV	LCH	MC9	PASS
					MC4	PASS
				MCH	MC9	PASS
					MC4	PASS
				HCH	MC9	PASS
					MC4	PASS
			HTLV	LCH	MC9	PASS
					MC4	PASS
				MCH	MC9	PASS
					MC4	PASS
				HCH	MC9	PASS
					MC4	PASS
			LTHV	LCH	MC9	PASS
					MC4	PASS
				MCH	MC9	PASS
					MC4	PASS
				HCH	MC9	PASS
					MC4	PASS
			LTLV	LCH	MC9	PASS
					MC4	PASS
				MCH	MC9	PASS
					MC4	PASS
				HCH	MC9	PASS
					MC4	PASS

### 13. AM suppression - control channels

#### 13.1 Test Result

Test Mode	PCL	Test Condition	Channel	Verdict
DCS1800	0	NTNV	MCH	PASS

## 14. AM suppression - packet channels

### 14.1 Test Result

Test Mode	GAMMA	Test Condition	Channel	Test Item	Verdict
DCS1800	3	NTNV	MCH	BLER	PASS
				USF BLER	PASS

## 15. Adjacent channel rejection - control channels

### 15.1 Test Result

Test Mode	PCL	Channel	Test Type	Test Condition	Verdict
DCS1800	0	LCH	Adjacent Time Slot selectivity	NTNV	PASS
				HTHV	PASS
				HTLV	PASS
				LTHV	PASS
				LTLV	PASS
		MCH	Adjacent RF channel selectivity	NTNV	PASS
				HTHV	PASS
				HTLV	PASS
				LTHV	PASS
				LTLV	PASS

## 16. Adjacent channel rejection - EGPRS

### 16.1 Test Result

Test Mode	Test Mode	Test Item	GAMMA	Test Condition	Channel	Coding	Verdict		
DCS1800	Adjacent RF channel selectivity	BLER	3	NTNV	MCH	MC1	PASS		
						MC2	PASS		
						MC3	PASS		
						MC4	PASS		
						MC5	PASS		
						MC6	PASS		
						MC7	PASS		
						MC8	PASS		
						MC9	PASS		
		USF BLER	3	NTNV	MCH	MC4	PASS		
						MC9	PASS		
						HTHV	MCH	MC4	PASS
								MC9	PASS
								HTLV	MCH
						MC9	PASS		
						LTHV	MCH		
								MC9	PASS
								LTLV	MCH
MC9	PASS								

				LTHV	MCH	MC4	PASS
						MC9	PASS
				LTLV	MCH	MC4	PASS
						MC9	PASS

Test Mode	Test Mode	Test Item	GAMMA	Test Condition	Channel	Coding	Verdict
DCS1800	Adjacent Time Slot selectivity	BLER	3	NTNV	MCH	MC1	PASS
						MC2	PASS
						MC3	PASS
						MC4	PASS
						MC5	PASS
						MC6	PASS
						MC7	PASS
						MC8	PASS
						MC9	PASS
		USF BLER	3	NTNV	MCH	MC1	PASS
						MC5	PASS

## 17. Minimum Input level for Reference Performance - GPRS

### 17.1 Test Result

Test Mode	Test Item	GAMMA	Test Condition	Channel	DL Reference Level	Coding	Verdict	
DCS1800	BLER	3	NTNV	MCH	Sensitivity+7	C3	PASS	
				HOPP	Sensitivity+1	C3	PASS	
					Sensitivity+1	C4	PASS	
				HTHV	HOPP	Sensitivity+1	C3	PASS
					Sensitivity+1	C4	PASS	
				HTLV	HOPP	Sensitivity+1	C3	PASS
				Sensitivity+1	C4	PASS		
			LTHV	HOPP	Sensitivity+1	C3	PASS	
				Sensitivity+1	C4	PASS		
			LTLV	HOPP	Sensitivity+1	C3	PASS	
				Sensitivity+1	C4	PASS		
			USF BLER	3	NTNV	MCH	Sensitivity-3	C1
	Sensitivity-3	C2					PASS	
	Sensitivity-3	C4					PASS	
	HTHV	MCH			Sensitivity+1	C1	PASS	
					Sensitivity+1	C2	PASS	
					Sensitivity+1	C4	PASS	
	HTLV	MCH		Sensitivity+1	C1	PASS		
				Sensitivity+1	C2	PASS		
				Sensitivity+1	C4	PASS		
	LTHV	MCH		Sensitivity+1	C1	PASS		
				Sensitivity+1	C2	PASS		
				Sensitivity+1	C4	PASS		
	LTLV	MCH	Sensitivity+1	C1	PASS			
Sensitivity+1			C2	PASS				
Sensitivity+1			C4	PASS				

## 18. Minimum Input level for Reference Performance - EGPRS

### 18.1 Test Result

Test Mode	Test Item	GAMMA	Test Condition	Channel	DL Reference Level	Coding	Verdict	
DCS1800	BLER	3	NTNV	MCH	Sensitivity+7	MC4	PASS	
					Sensitivity+7	MC8	PASS	
				HOPP	Sensitivity+1	MC1	PASS	
					Sensitivity+1	MC2	PASS	
					Sensitivity+1	MC3	PASS	
					Sensitivity+1	MC4	PASS	
			Sensitivity+1		MC5	PASS		
			Sensitivity+1		MC6	PASS		
			HTHV	HOPP	Sensitivity+1	MC4	PASS	
					Sensitivity+1	MC8	PASS	
				HTLV	HOPP	Sensitivity+1	MC4	PASS
						Sensitivity+1	MC8	PASS
	LTHV	HOPP		Sensitivity+1	MC4	PASS		
				Sensitivity+1	MC8	PASS		
	LTLV	HOPP	Sensitivity+1	MC4	PASS			
			Sensitivity+1	MC8	PASS			
	USF BLER	3	NTNV	MCH	Sensitivity-3	MC1	PASS	
					Sensitivity-3	MC5	PASS	
				HTHV	MCH	Sensitivity+1	MC1	PASS
						Sensitivity+1	MC5	PASS
				HTLV	MCH	Sensitivity+1	MC1	PASS
						Sensitivity+1	MC5	PASS
			LTHV	MCH	Sensitivity+1	MC1	PASS	
					Sensitivity+1	MC5	PASS	
LTLV			MCH	Sensitivity+1	MC1	PASS		
				Sensitivity+1	MC5	PASS		