TEST REPORT

Application No.:	SZEM2009008642CR
Applicant:	PAX Technology Limited
Address of Applicant:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong, China
Manufacturer:	PAX Computer Technology(Shenzhen) Co., Ltd.
Address of Manufacturer:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Factory:	Guangzhou PAX Computer Technology Co., Ltd
Address of factory:	No.2 Bldg, No.113 Jinyang Road, Hualong Town, Panyu, Guangzhou, Guangdong, China
Equipment Under Test (EUT):	
EUT Name:	Mobile Payment Terminal
Model No.:	S920
Trade mark:	PAX
FCC ID:	V5PS9204GBW
Standard(s) :	47 CFR Part 2 47 CFR Part 22 subpart H 47 CFR Part 24 subpart E
Date of Receipt:	2020-09-01
Date of Test:	2020-09-01 to 2020-09-17
Date of Issue:	2020-09-23
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	***Chapter***	***Date***	***Modifier***	***Remark***
01		*2020-09-23*		*Original*

Authorized for issue by:				
		Calvin Weng **Calvin Weng /Project Engineer**		
		Eric Fu **Eric Fu /Reviewer**		

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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913, §24.232	ERP≤7W(GSM850) EIRP≤2W(PCS1900)	PASS
Peak-Average Ratio	§24.232	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051, §22.917, §24.238	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051, §22.917, §24.238	≤ -13dBm	PASS
Field strength of spurious radiation	§2.1051, §22.917, §24.238	≤ -13dBm	PASS
Frequency stability	§2.1055, §22.355, §24.235	≤ ±2.5ppm.	PASS

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4 General Information

4.1 Details of E.U.T.

Rated voltage:	DC5V/1A
Power adapter:	M/N: A18A-050100U-US2 Adapter input: AC100-240V, 50/60Hz, 0.2A Adapter output: DC5V/1A
Battery:	DC3.63V(3250mAh)
Sample Type:	Portable production
Support Network:	GPRS, EGPRS
Operation Frequency Band:	GSM850/PCS1900
Modulation Type:	GMSK for GPRS/EGPRS; 8PSK for EGPRS;
GPRS Class:	12
EGPRS Class:	12
Antenna Type:	PIFA antenna
Antenna Gain:	GSM850MHz: 1dBi, DCS1900MHz: 0.5dBi.
SIM Card:	This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.

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4.2 Test Frequency

Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
GSM850	TX	Channel 128	Channel 190	Channel 251
		824.2MHz	836.6 MHz	848.8 MHz
	RX	Channel 128	Channel 190	Channel 251
		869.2 MHz	881.6 MHz	893.8 MHz
Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
PCS1900	TX	Channel 512	Channel 661	Channel 810
		1850.2MHz	1880.0 MHz	1909.8 MHz
	RX	Channel 512	Channel 661	Channel 810
		1930.2 MHz	1960.0 MHz	1989.8 MHz

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TL	-30℃
	TN	+20℃
	TH	+50℃
Voltage:	VL	3.4 V
	VN	3.63 V
	VH	4.2 V

NOTE: VL= lower extreme test voltage
VN= nominal voltage
VH= upper extreme test voltage
TL= lower extreme test temperature
TN= normal temperature
TH= upper extreme test temperature

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4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10^{-8}
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.75dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	RF Radiated power	± 4.5dB (below 1GHz)
		± 4.8dB (above 1GHz)
8	Radiated Spurious emission test	± 4.5dB (Below 1GHz)
		± 4.8dB (Above 1GHz)
9	Temperature test	± 1°C
10	Humidity test	± 3%
11	Supply voltages	± 1.5%
12	Time	± 3%

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4.6 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None

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5 Equipment List

RF conducted test					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date**	**Cal. Due date**
DC Power Supply	ZhaoXin	PS-3005D	SEM011-05	2019-09-24	2020-09-23
Signal Analyzer (10Hz-40GHz)	Rohde & Schwarz	FSV40	SEM008-04	2020-03-31	2021-03-30
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2020-03-31	2021-03-30
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2020-04-11	2021-04-10

RE in Chamber					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date**	**Cal. Due date**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-11	2021-04-10
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2019-09-24	2020-09-23
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-11-11	2020-11-10
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-03-31	2021-03-30
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2020-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2020-06-26	2023-06-25

RE in Chamber					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date**	**Cal. Due date**
10m Semi-Anechoic	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30

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Chamber					
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2019-12-16	2020-12-15
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2020-03-31	2021-03-30

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-03	2021-04-02

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6 Radio Spectrum Matter Test Results

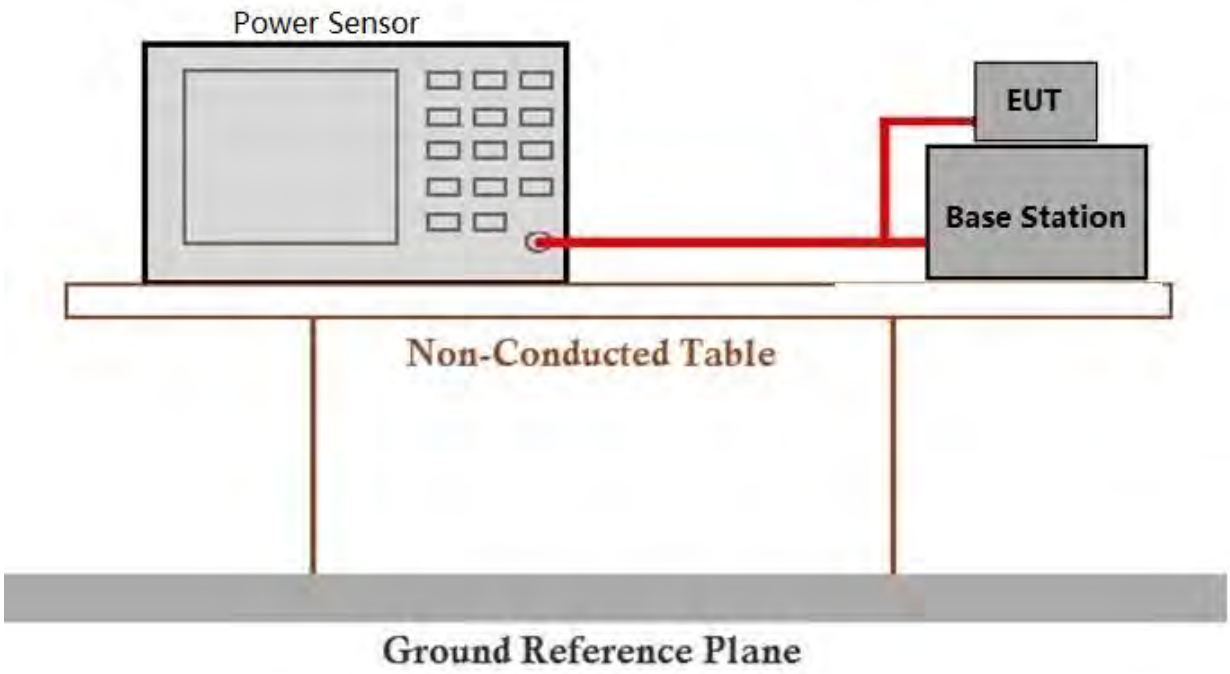
6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ERP≤7W(GSM850)
EIRP ≤ 2W(PCS1900)

6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: f:TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

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Test Band: GSM850											
Test Mode		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
EGPRS	1 TX Slot	26.41	26.47	26.38	-1.15	1.0	25.26	**25.32**	25.23	38.45	PASS
	2 TX Slots	25.29	25.38	25.31	-1.15	1.0	24.14	24.23	24.16	38.45	PASS
	3 TX Slots	23.78	23.98	24.05	-1.15	1.0	22.63	22.83	22.9	38.45	PASS
	4 TX Slots	22.25	22.51	22.51	-1.15	1.0	21.1	21.36	21.36	38.45	PASS
GPRS	1 TX Slot	33.51	33.48	33.4	-1.15	1.0	**32.36**	32.33	32.25	38.45	PASS
	2 TX Slots	31.64	31.65	31.57	-1.15	1.0	30.49	30.5	30.42	38.45	PASS
	3 TX Slots	29.5	29.61	29.66	-1.15	1.0	28.35	28.46	28.51	38.45	PASS
	4 TX Slots	28.04	28.26	28.18	-1.15	1.0	26.89	27.11	27.03	38.45	PASS

Note:
1) dBd = dBi - 2.15
2) EIRP = Conducted output power + Antenna gain (dBi)
3) ERP = Conducted output power + Antenna gain (dBd)

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	25.25	25.26	25.34	/	0.50	25.75	25.76	**25.84**	33.01	PASS
	2 TX Slots	23.11	23.15	23.3	/	0.50	23.61	23.65	23.8	33.01	PASS
	3 TX Slots	21.79	21.9	22.04	/	0.50	22.29	22.4	22.54	33.01	PASS
	4 TX Slots	20.41	20.52	20.65	/	0.50	20.91	21.02	21.15	33.01	PASS
GPRS	1 TX Slot	30.82	30.94	31.16	/	0.50	31.32	31.44	**31.66**	33.01	PASS
	2 TX Slots	28.91	29.11	29.33	/	0.50	29.41	29.61	29.83	33.01	PASS
	3 TX Slots	26.63	26.8	27.06	/	0.50	27.13	27.3	27.56	33.01	PASS
	4 TX Slots	24.94	25.17	25.48	/	0.50	25.44	25.67	25.98	33.01	PASS

Note:
1) dBd = dBi - 2.15
2) EIRP = Conducted output power + Antenna gain (dBi)

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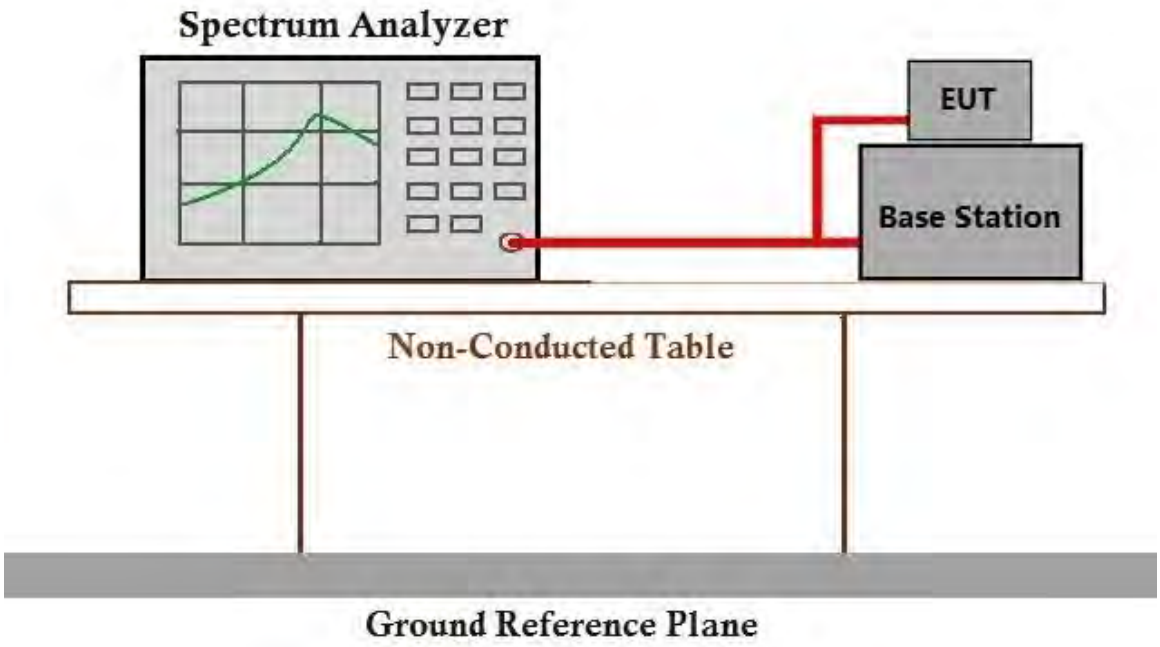
6.2 Peak-Average Ratio

Test Requirement: §24.232
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: f:TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Test mode:	Test Band	Test result (dB)			Limit (dB)	Verdict
		LCH	MCH	HCH		
GSM	GPRS850	8.37	8.37	9.88	13	Pass
	EGPRS850	8.36	8.38	9.87	13	Pass
	GPRS1900	8.39	9.81	11.07	13	Pass
	EGPRS1900	8.38	9.48	9.80	13	Pass

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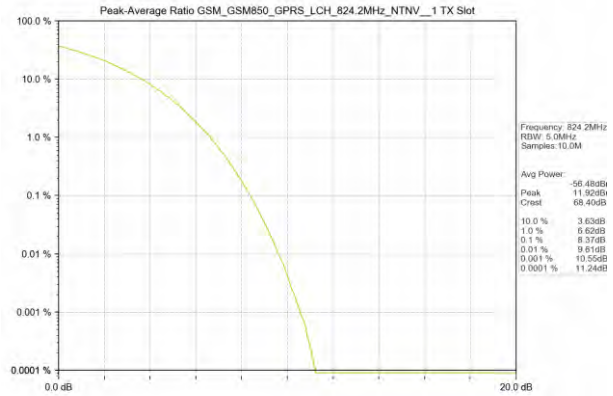
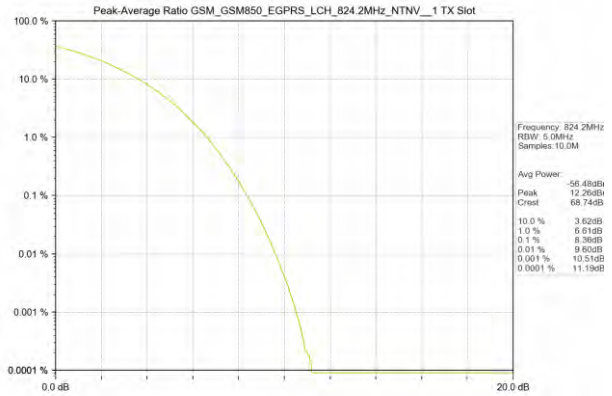
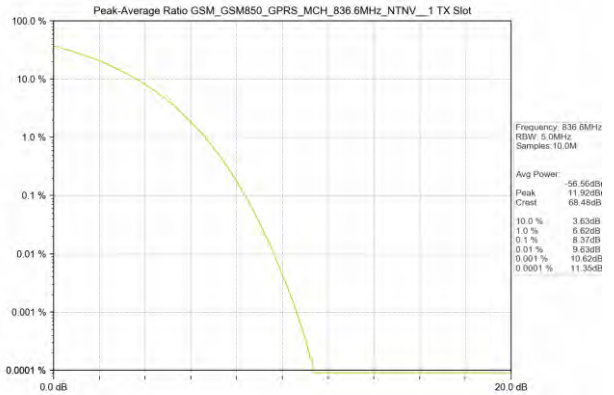
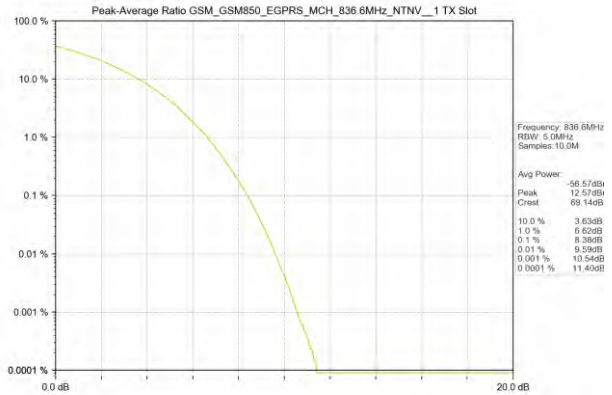
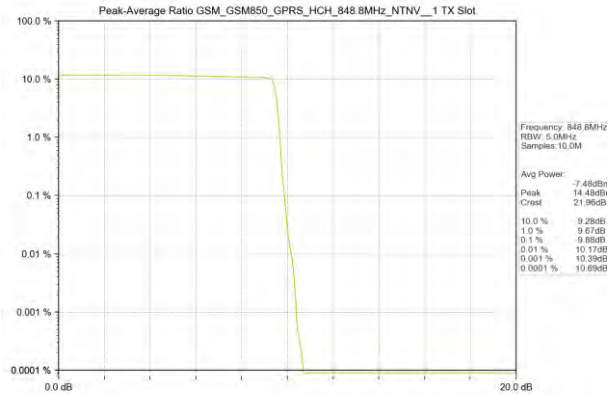
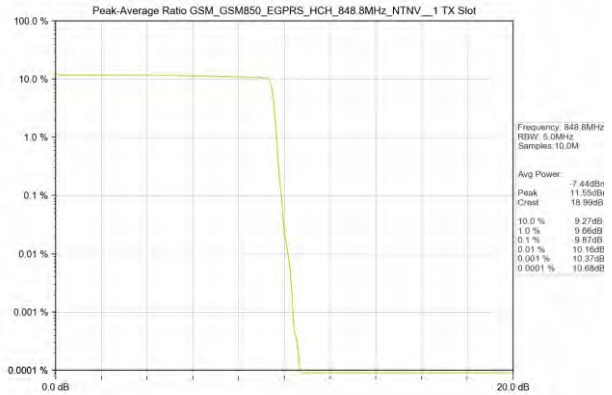
Test Plot	
GPRS850-Low Channel	EGPRS850-Low Channel
	
GPRS850-Middle Channel	EGPRS850-Middle Channel
	
GPRS850-High Channel	EGPRS850-High Channel
	

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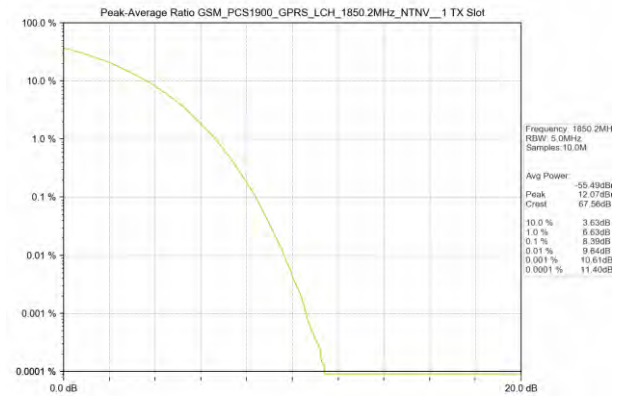
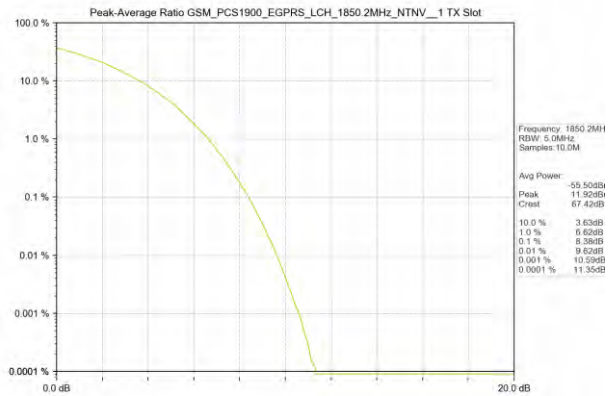
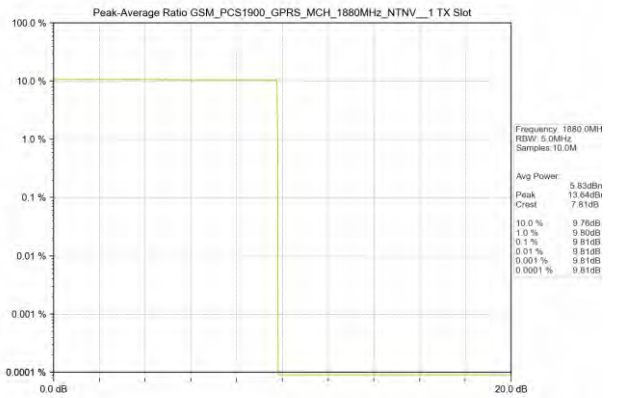
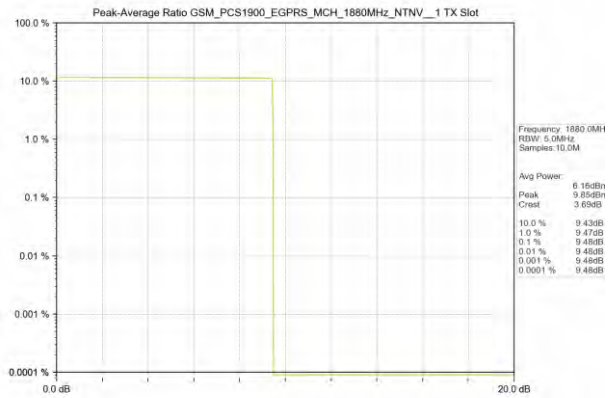
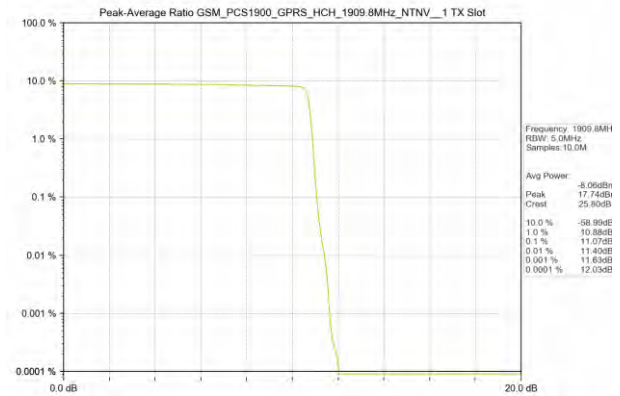
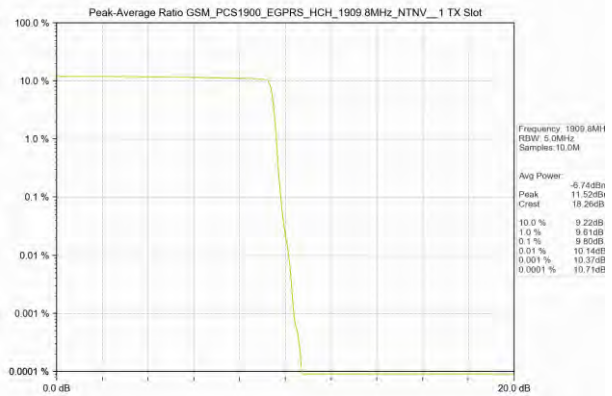
Test Plot	
GPRS1900-Low Channel	EGPRS1900-Low Channel
	
GPRS1900-Middle Channel	EGPRS1900-Middle Channel
	
GPRS1900-High Channel	EGPRS1900-High Channel
	

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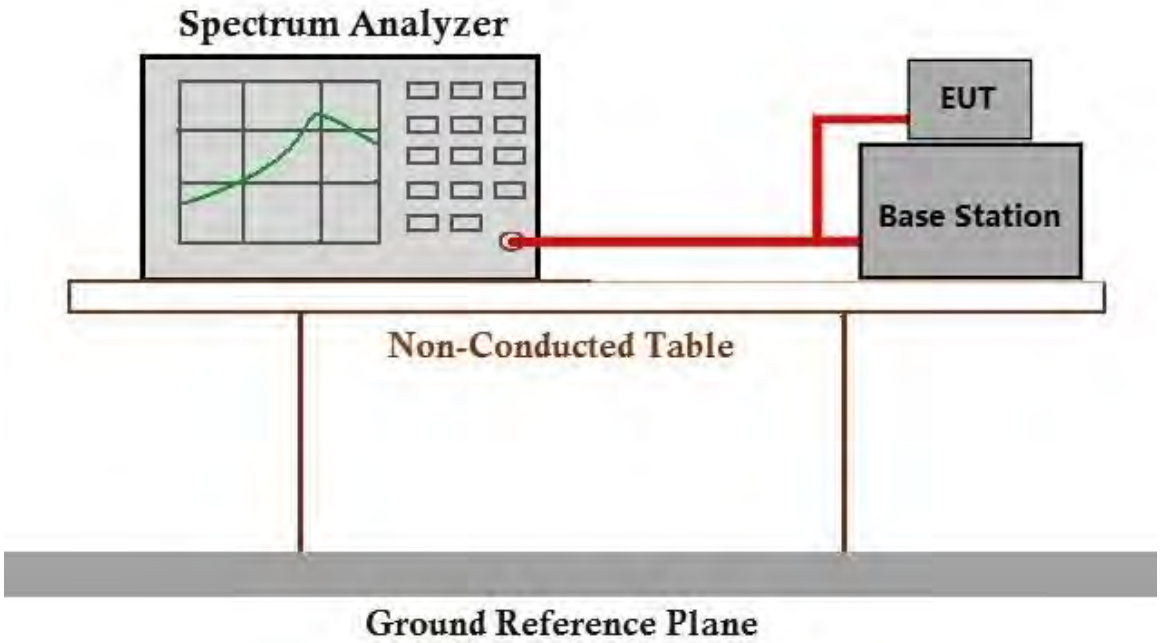
6.3 Bandwidth

Test Requirement: §2.1049(h), §22.917, §24.238
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: OBW: No limit
EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: f:TX mode_Keep the EUT in transmitting mode

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

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Test mode:	Test Band	Test result of Occupied Bandwidth (MHz)			Limit (dB)	Verdict
		LCH	MCH	HCH		
GSM	GPRS850	0.244	0.244	**0.245**	N/A	Pass
	EGPRS850	0.242	0.241	**0.245**	N/A	Pass
	GPRS1900	**0.247**	0.246	0.244	N/A	Pass
	EGPRS1900	**0.248**	**0.248**	0.242	N/A	Pass

Test mode:	Test Band	Test result of 26dB Bandwidth (MHz)			Limit (dB)	Verdict
		LCH	MCH	HCH		
GSM	GPRS850	0.320	0.315	0.323	N/A	Pass
	EGPRS850	0.317	0.311	0.314	N/A	Pass
	GPRS1900	0.324	0.314	0.320	N/A	Pass
	EGPRS1900	0.326	0.326	0.320	N/A	Pass

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Test Plot for Occupied Bandwidth	
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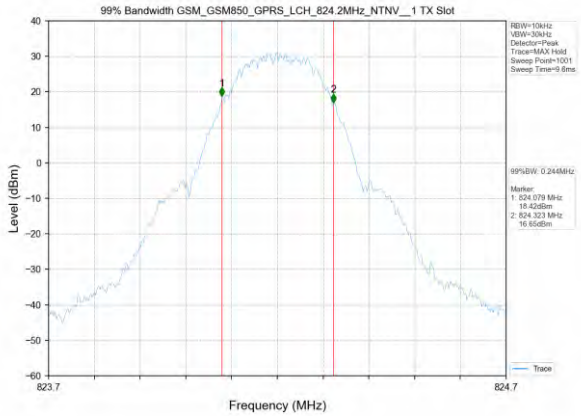
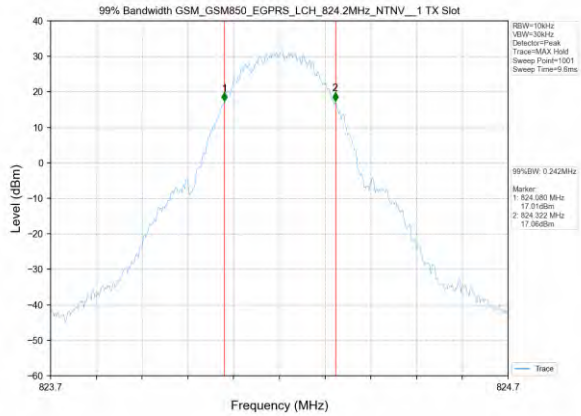
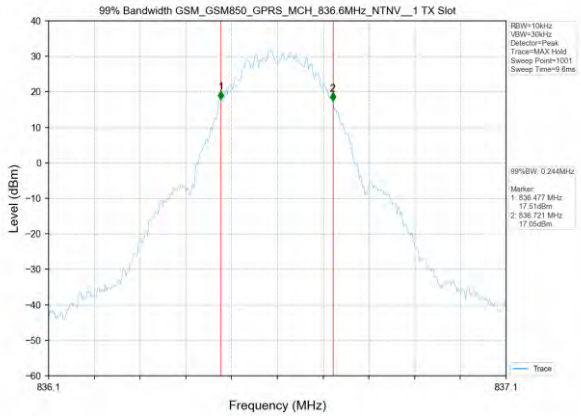
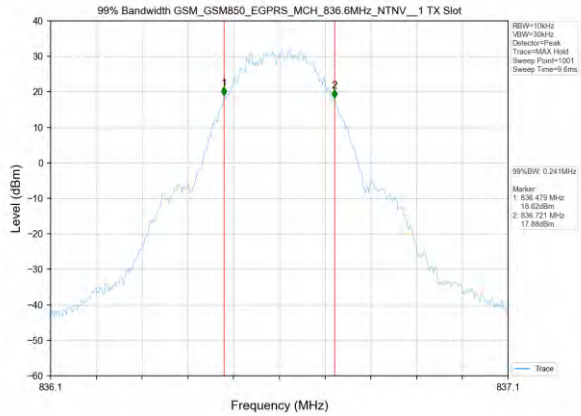
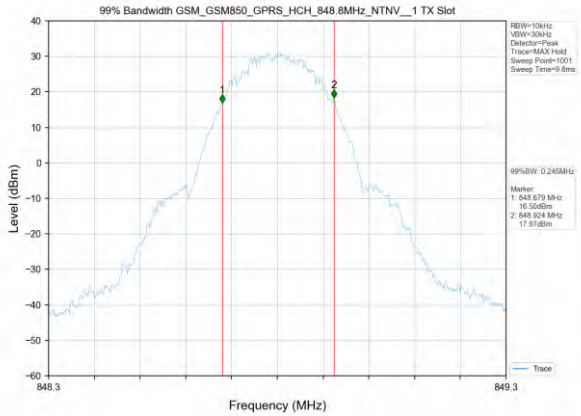
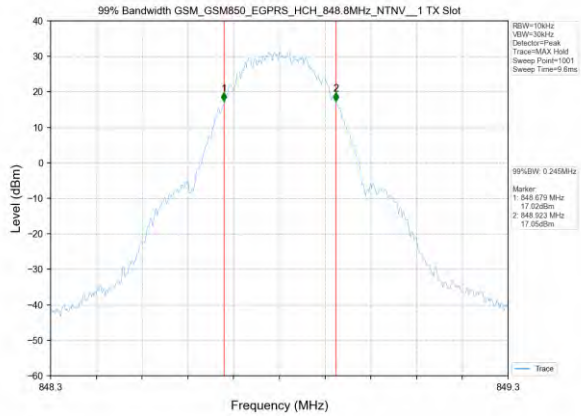
	
GPRS850-Middle Channel	EGPRS850-Middle Channel
	
GPRS850-High Channel	EGPRS850-High Channel
	

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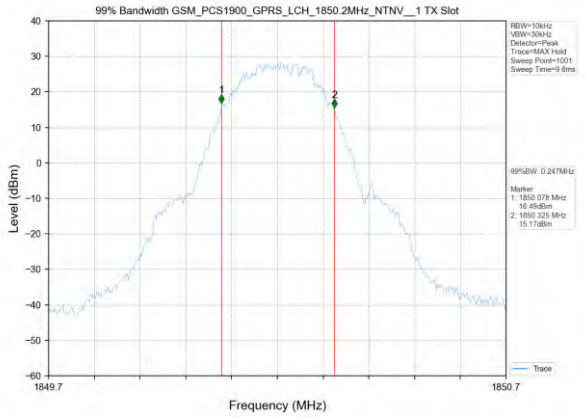
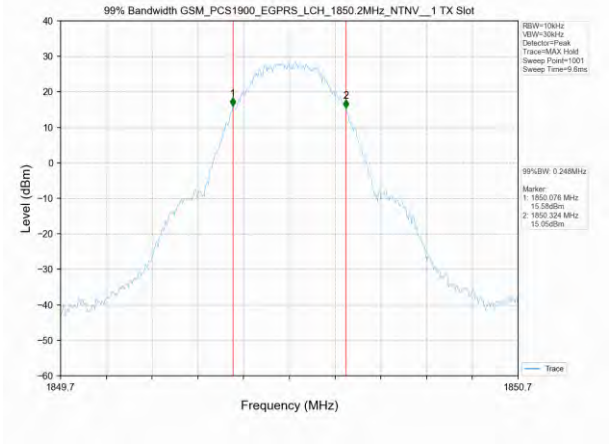
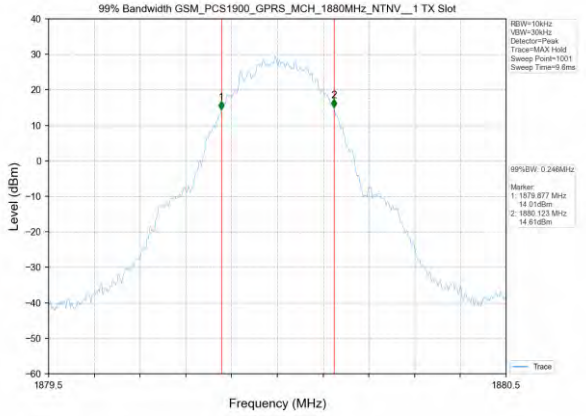
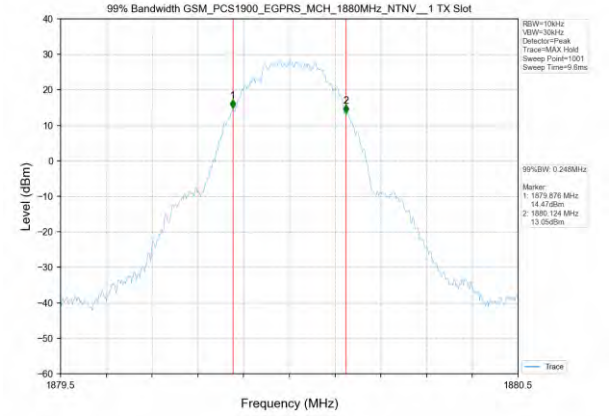
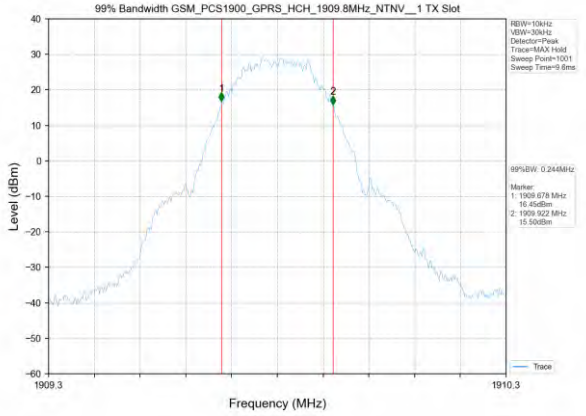
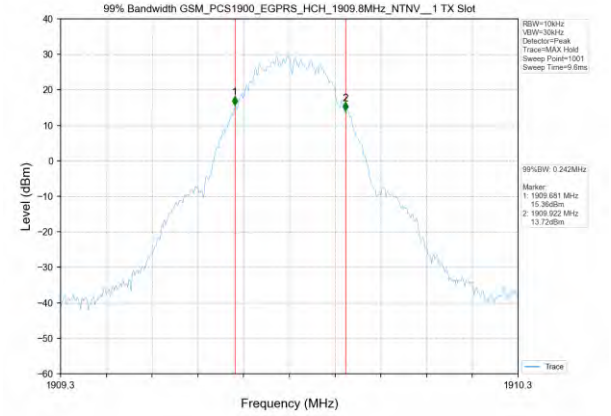
Test Plot for Occupied Bandwidth	
GPRS1900-Low Channel	EGPRS1900-Low Channel
	
GPRS1900-Middle Channel	EGPRS1900-Middle Channel
	
GPRS1900-High Channel	EGPRS1900-High Channel
	

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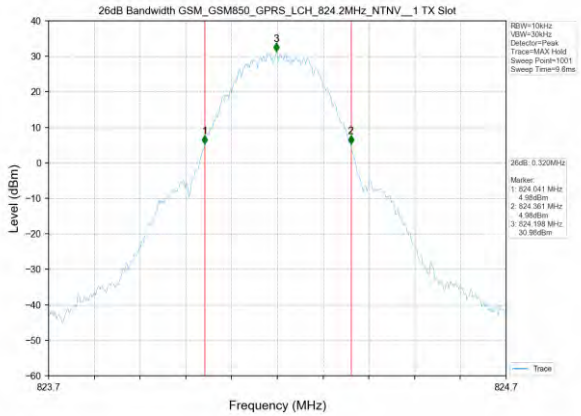
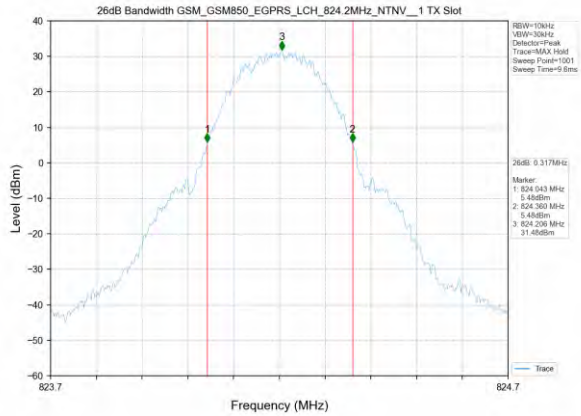
Test Plot for 26dB Bandwidth

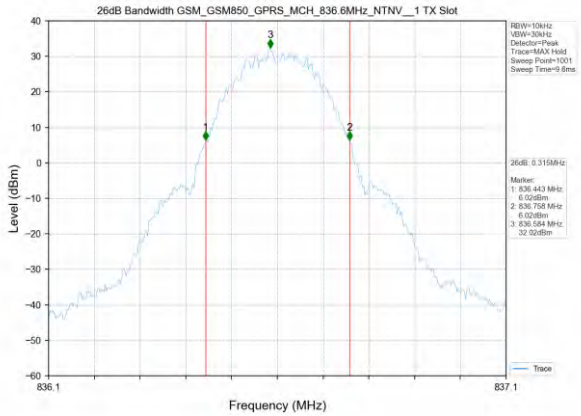
GPRS850-Low Channel



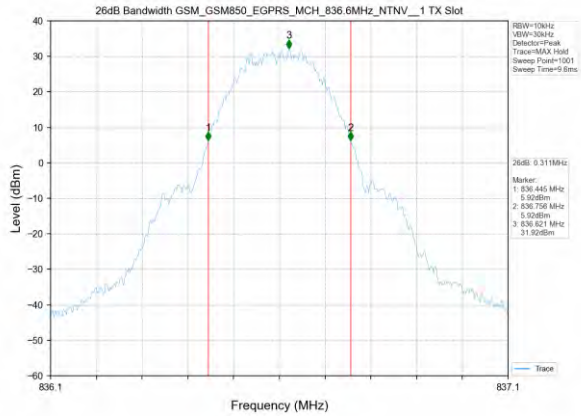
EGPRS850-Low Channel



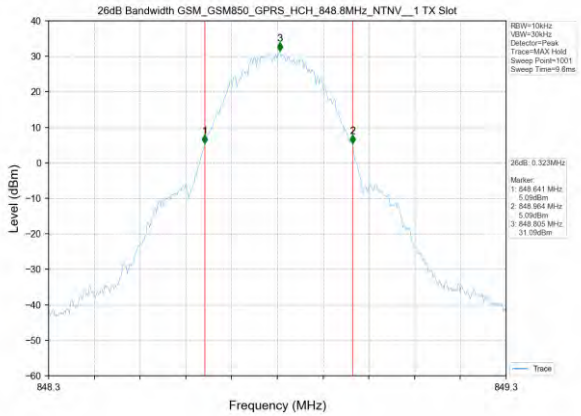
GPRS850-Middle Channel



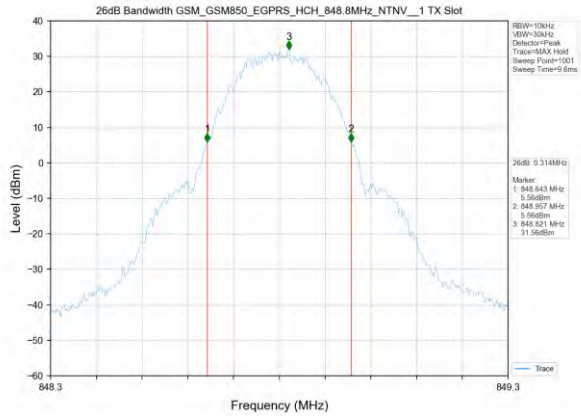
EGPRS850-Middle Channel



GPRS850-High Channel



EGPRS850-High Channel



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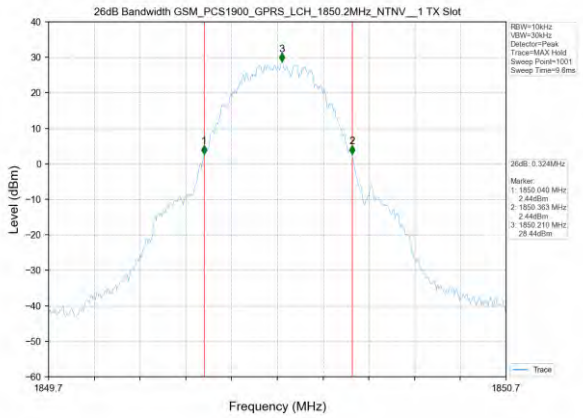
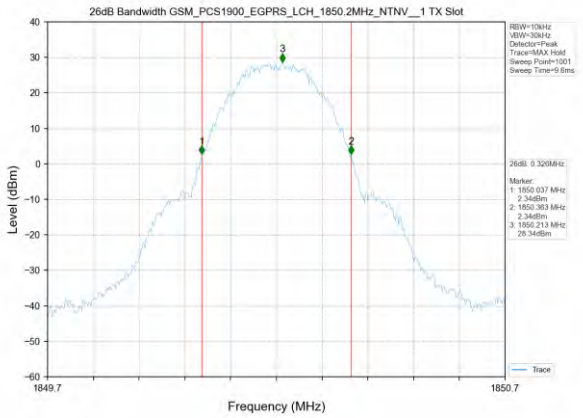
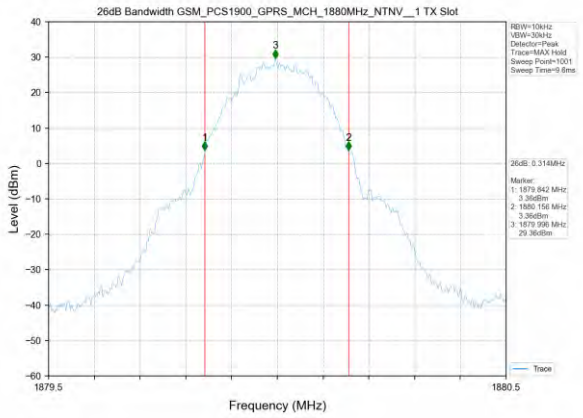
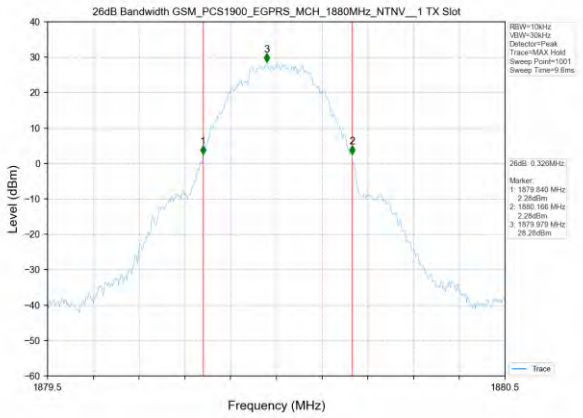
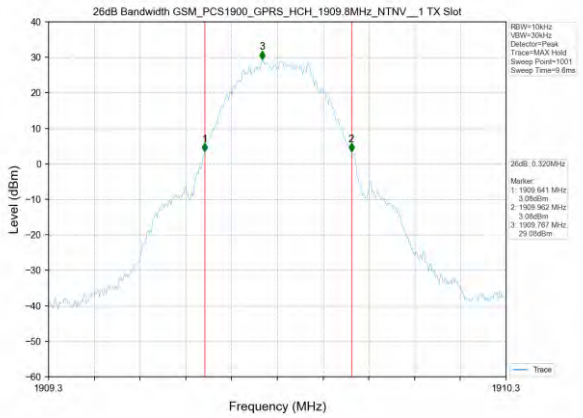
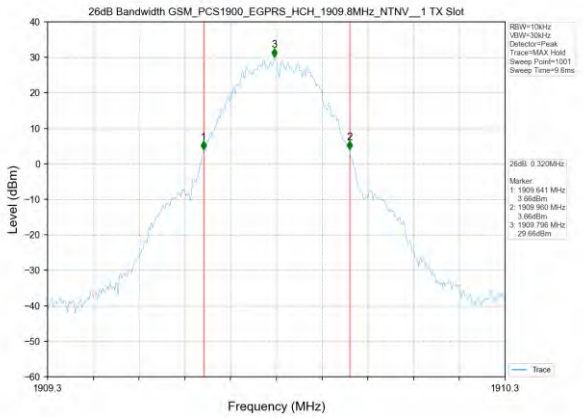
Test Plot for 26dB Bandwidth	
GPRS1900-Low Channel	EGPRS1900-Low Channel
	
GPRS1900-Middle Channel	EGPRS1900-Middle Channel
	
GPRS1900-High Channel	EGPRS1900-High Channel
	

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6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.

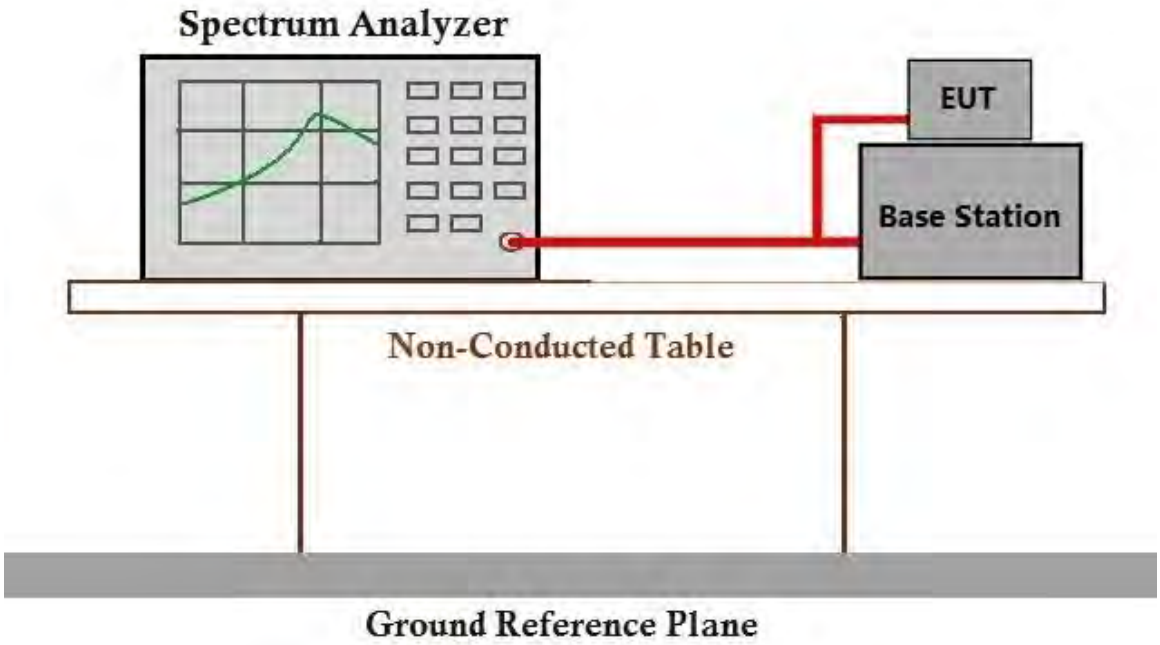
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: f:TX mode_Keep the EUT in transmitting mode

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

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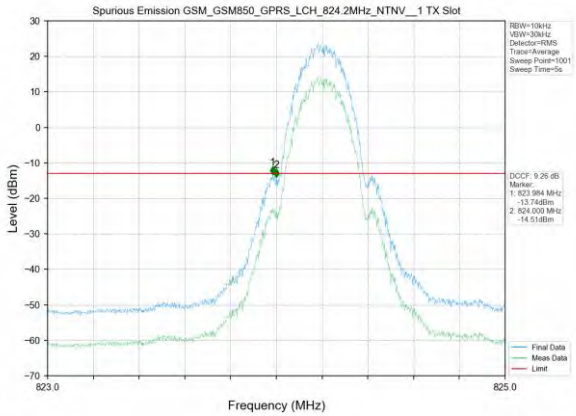
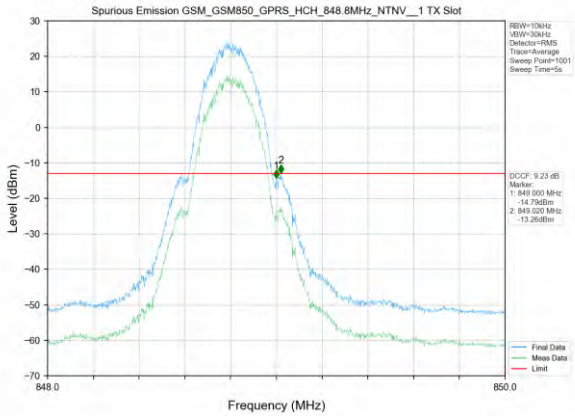
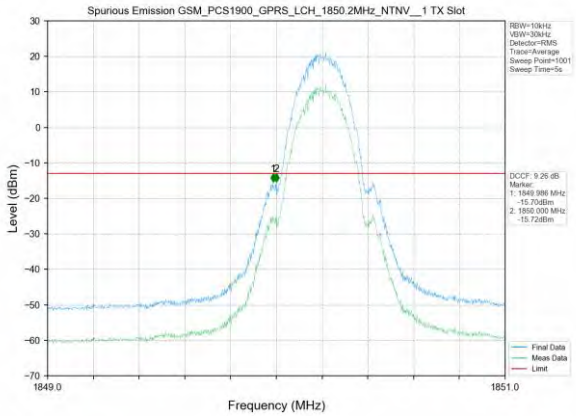
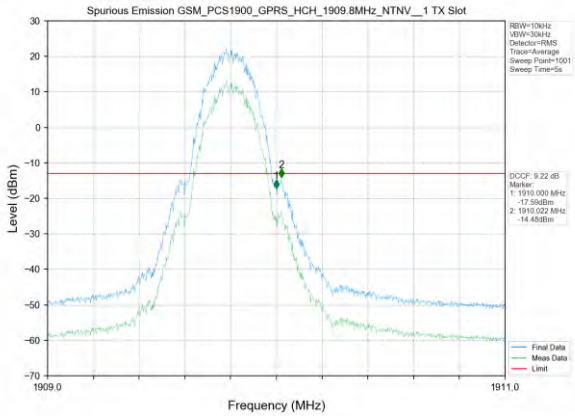
Test Plot for GSM	
GPRS850-Low Channel	GPRS850-High Channel
	
GPRS1900-Low Channel	GPRS1900-High Channel
	

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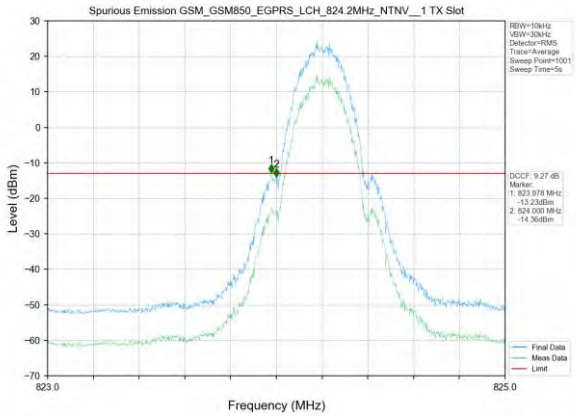
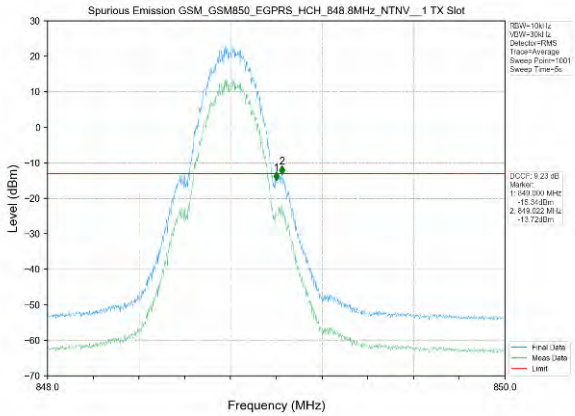
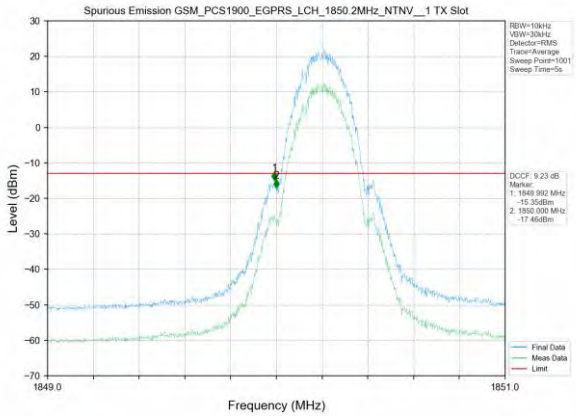
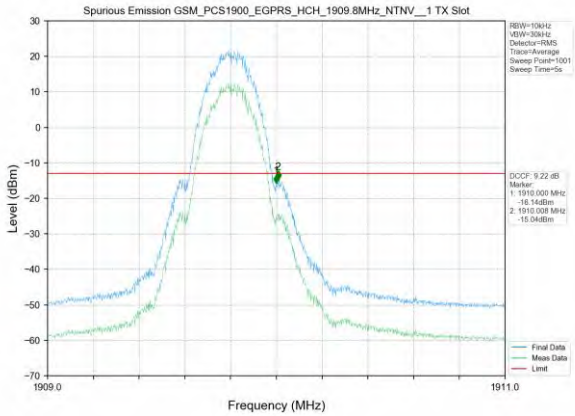
Test Plot for EGPRS	
EGPRS850-Low Channel	EGPRS850-High Channel
	
EGPRS1900-Low Channel	EGPRS1900-High Channel
	

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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ≤ -13dBm

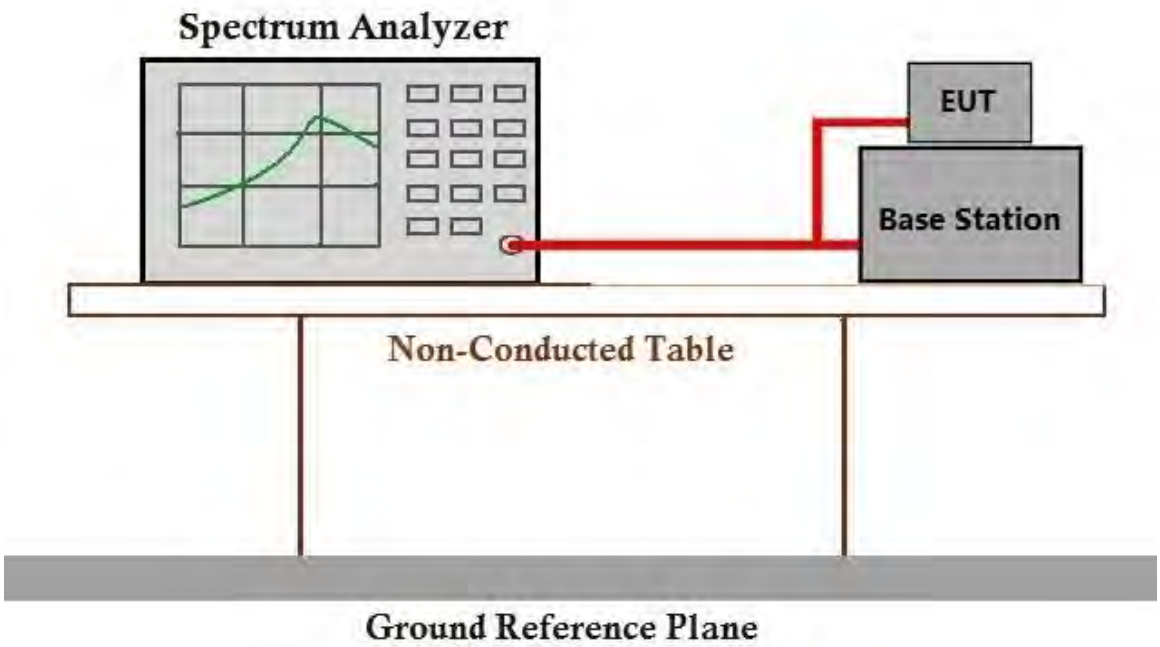
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: f:TX mode_Keep the EUT in transmitting mode

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

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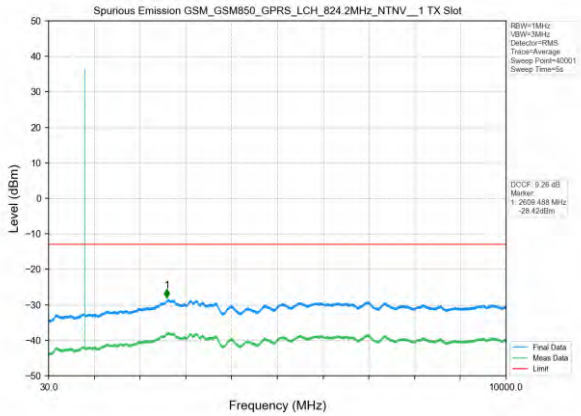
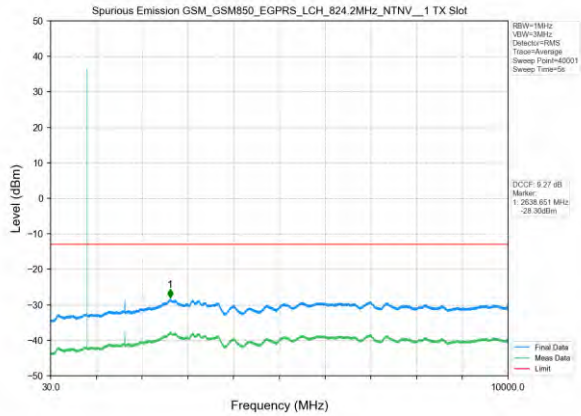
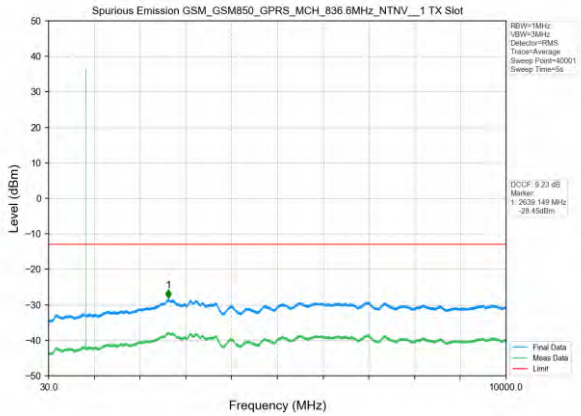
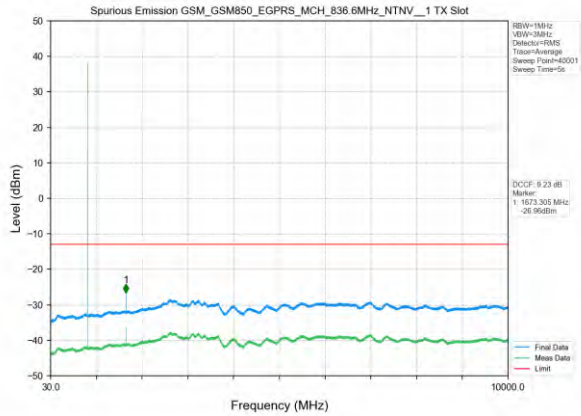
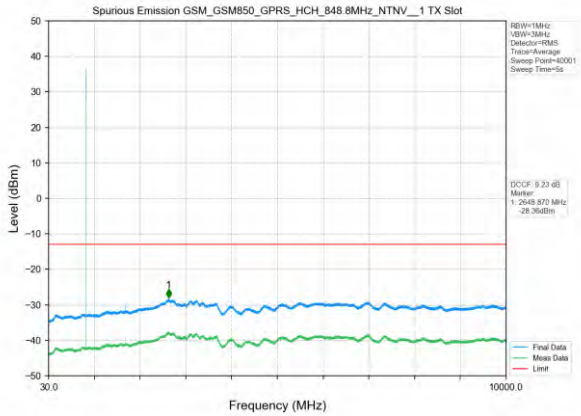
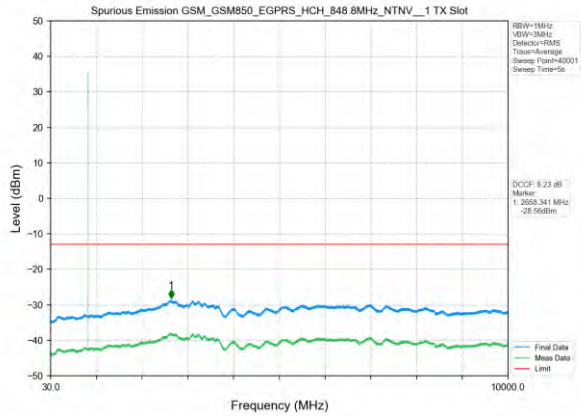
Test Plot for GSM850	
GPRS850-Low Channel	EGPRS850-Low Channel
	
GPRS850-Middle Channel	EGPRS850-Middle Channel
	
GPRS850-High Channel	EGPRS850-High Channel
	

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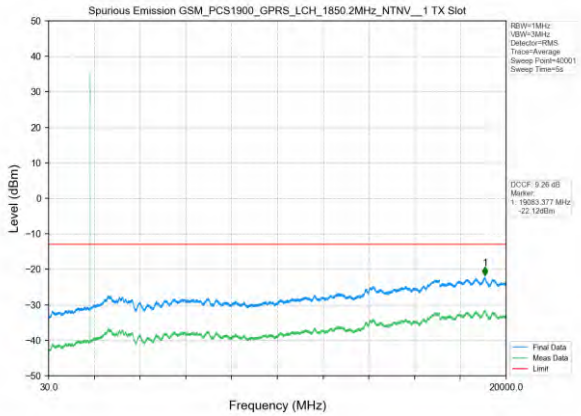
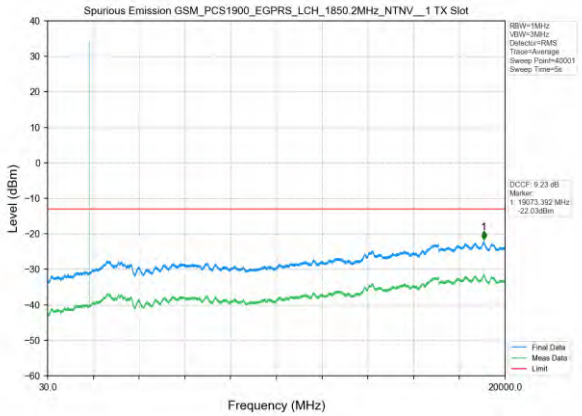
Test Plot for PCS1900

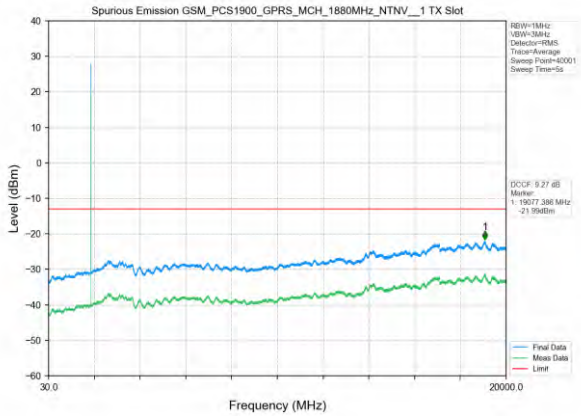
GPRS1900-Low Channel



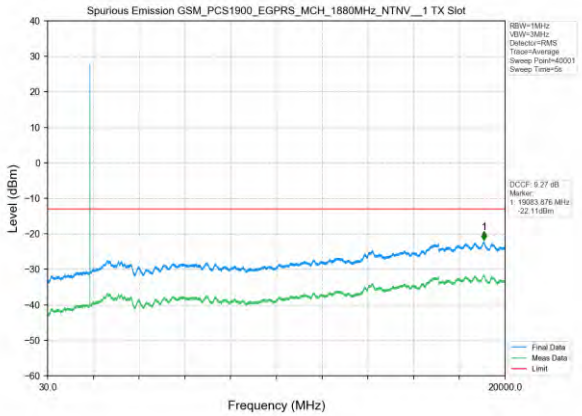
EGPRS1900-Low Channel



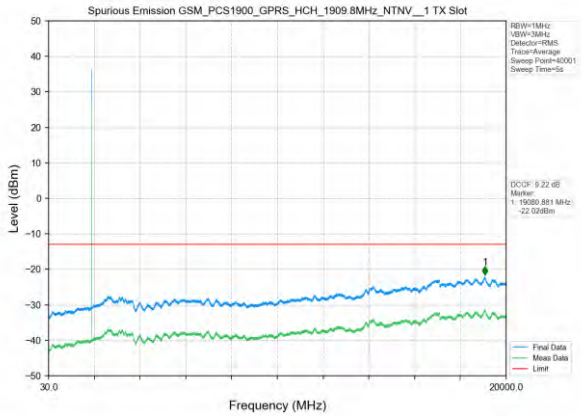
GPRS1900-Middle Channel



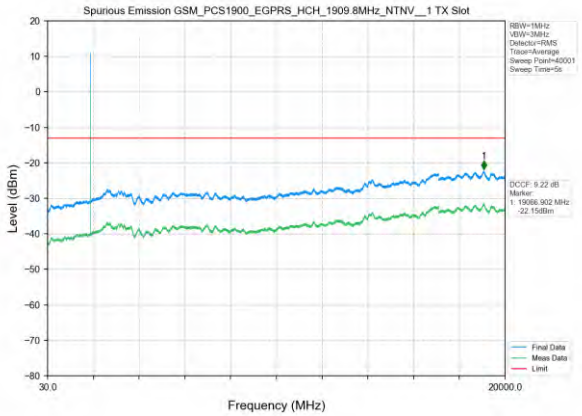
EGPRS1900-Middle Channel



GPRS1900-High Channel



EGPRS1900-High Channel



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6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm

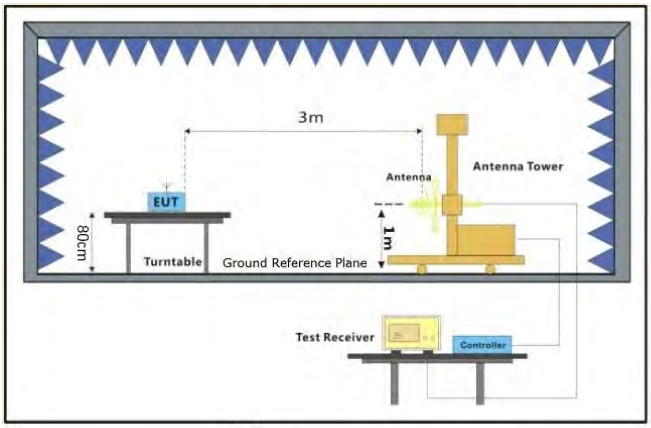
6.6.1 E.U.T. Operation

Operating Environment:

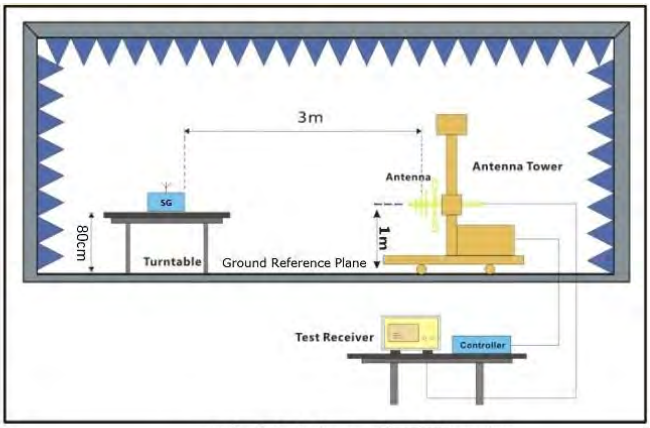
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: f:TX mode_Keep the EUT in transmitting mode

6.6.2 Test Setup Diagram



EUT



Substiute Antenna+Signal Generator

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6.6.3 Measurement Procedure and Data

Test Procedure:

(1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
(2)The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
(3)The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
(4)The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
(5)The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
(6)The transmitter shall than be rotated through 360°in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
(7)The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
(8)The maximum signal level detected by the measuring receiver shall be noted.
(9)The measurement shall be repeated with the test antenna set to horizontal polarization.
(10) Replace the antenna with a proper Antenna (substitution antenna).
(11)The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
(12)The substitution antenna shall be connected to a calibrated signal generator.
(13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
(14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
(15)The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
(16)The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
(17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

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GPRS850-Low channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Polarization (H/V)	Result
1652.8	-65.34	0.52	6	-59.86	-13	-46.86	Horizontal	Pass
2479.2	-60.51	0.53	5.8	-55.24	-13	-42.24	Horizontal	Pass
3305.6	-56.81	0.65	6.2	-51.26	-13	-38.26	Horizontal	Pass
1652.8	-66.04	0.52	6	-60.56	-13	-47.56	Vertical	Pass
2479.2	-62.11	0.53	5.8	-56.84	-13	-43.84	Vertical	Pass
3305.6	-57.91	0.65	6.2	-52.36	-13	-39.36	Vertical	Pass

GPRS850-Middle channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Polarization (H/V)	Result
1672.8	-64.95	0.52	6	-59.47	-13	-46.47	Horizontal	Pass
2509.2	-61.58	0.59	5.3	-56.87	-13	-43.87	Horizontal	Pass
3345.6	-57.97	0.65	6.2	-52.42	-13	-39.42	Horizontal	Pass
1672.8	-65.73	0.52	6	-60.25	-13	-47.25	Vertical	Pass
2509.2	-61.68	0.59	5.3	-56.97	-13	-43.97	Vertical	Pass
3345.6	-57.62	0.65	6.2	-52.07	-13	-39.07	Vertical	Pass

GPRS850-High channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Polarization (H/V)	Result
1693.2	-67.13	0.52	6	-61.65	-13	-48.65	Horizontal	Pass
2539.8	-60.74	0.59	5.3	-56.03	-13	-43.03	Horizontal	Pass
3386.4	-59.33	0.65	6.2	-53.78	-13	-40.78	Horizontal	Pass
1693.2	-66.38	0.52	6	-60.9	-13	-47.9	Vertical	Pass
2539.8	-61.68	0.59	5.3	-56.97	-13	-43.97	Vertical	Pass
3386.4	-57.67	0.65	6.2	-52.12	-13	-39.12	Vertical	Pass

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GPRS1900-Low channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Polarization (H/V)	Result
3704.8	-58.45	0.71	7.6	-51.56	-13	-38.56	Horizontal	Pass
5557.2	-56.19	0.85	10.3	-46.74	-13	-33.74	Horizontal	Pass
7409.6	-58.48	1	12.9	-46.58	-13	-33.58	Horizontal	Pass
3704.8	-58.76	0.71	7.6	-51.87	-13	-38.87	Vertical	Pass
5557.2	-56.39	0.85	10.3	-46.94	-13	-33.94	Vertical	Pass
7409.6	-57.66	1	12.9	-45.76	-13	-32.76	Vertical	Pass

GPRS1900-Middle channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Polarization (H/V)	Result
3760	-59.13	0.71	7.6	-52.24	-13	-39.24	Horizontal	Pass
5640	-57.91	0.85	10.3	-48.46	-13	-35.46	Horizontal	Pass
7520	-59.62	0.99	13.2	-47.41	-13	-34.41	Horizontal	Pass
3760	-59.89	0.71	7.6	-53	-13	-40	Vertical	Pass
5640	-56.77	0.85	10.3	-47.32	-13	-34.32	Vertical	Pass
7520	-58.95	0.99	13.2	-46.74	-13	-33.74	Vertical	Pass

GPRS1900-High channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Polarization (H/V)	Result
3815.2	-58.88	0.71	7.6	-51.99	-13	-38.99	Horizontal	Pass
5722.8	-57.56	0.85	10.3	-48.11	-13	-35.11	Horizontal	Pass
7630.4	-58.59	0.99	13.2	-46.38	-13	-33.38	Horizontal	Pass
3815.2	-58.35	0.71	7.6	-51.46	-13	-38.46	Vertical	Pass
5722.8	-58.88	0.85	10.3	-49.43	-13	-36.43	Vertical	Pass
7630.4	-59.11	0.99	13.2	-46.9	-13	-33.9	Vertical	Pass

Note:
All modes have been tested and we found GPRS Test mode has the worst test result. Only record the worst test result.

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6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ ±2.5ppm.

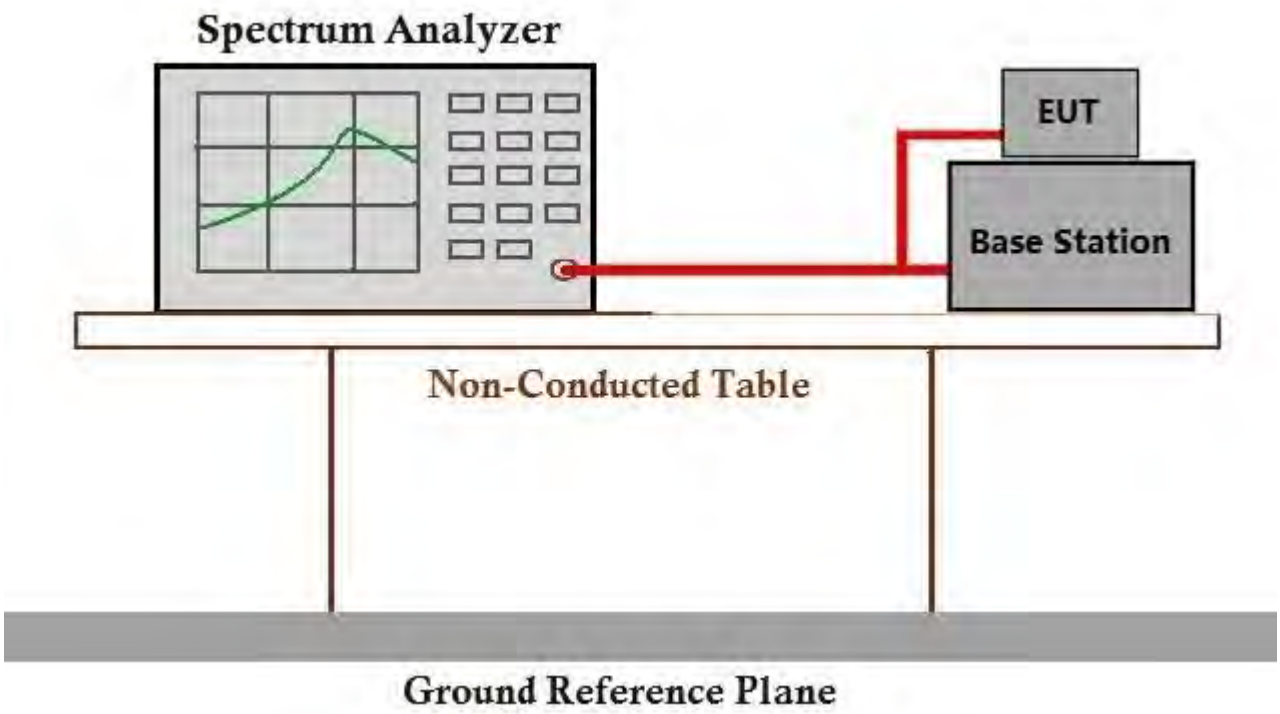
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: f:TX mode_Keep the EUT in transmitting mode

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

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.1 Test Result

Frequency Error VS. Voltage

Test Band	Test mode:	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 850	GPRS	LCH	TN	VL	5.1076	0.0062	PASS
				VN	14.1584	0.0172	PASS
				VH	2.6949	0.0033	PASS
		MCH	TN	VL	8.9076	0.0106	PASS
				VN	14.4745	0.0173	PASS
				VH	11.4675	0.0137	PASS
		HCH	TN	VL	13.1044	0.0154	PASS
				VN	10.8562	0.0128	PASS
				VH	8.6791	0.0102	PASS
	EGPRS	LCH	TN	VL	3.2733	0.004	PASS
				VN	12.1735	0.0148	PASS
				VH	12.6386	0.0153	PASS
		MCH	TN	VL	5.6742	0.0068	PASS
				VN	6.6062	0.0079	PASS
				VH	12.6208	0.0151	PASS
		HCH	TN	VL	3.2561	0.0038	PASS
				VN	10.4913	0.0124	PASS
				VH	0.0795	0.0001	PASS

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Test Band	Test mode:	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 1900	GPRS	LCH	TN	VL	3.4407	0.0019	PASS
				VN	11.1843	0.006	PASS
				VH	3.6280	0.002	PASS
		MCH	TN	VL	5.8488	0.0031	PASS
				VN	5.2950	0.0028	PASS
				VH	10.0507	0.0053	PASS
		HCH	TN	VL	5.4432	0.0029	PASS
				VN	12.1479	0.0064	PASS
				VH	1.3870	0.0007	PASS
	EGPRS	LCH	TN	VL	9.7064	0.0052	PASS
				VN	11.3118	0.0061	PASS
				VH	2.5679	0.0014	PASS
		MCH	TN	VL	12.8583	0.0068	PASS
				VN	12.9769	0.0069	PASS
				VH	0.4715	0.0003	PASS
		HCH	TN	VL	0.2936	0.0002	PASS
				VN	9.9102	0.0052	PASS
				VH	11.3437	0.0059	PASS

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Frequency Error VS. Temperature

Test Band	Test mode:	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 850	GPRS	LCH	VN	-30	13.7797	0.0167	PASS
				-20	4.5224	0.0055	PASS
				-10	10.6827	0.013	PASS
				0	1.9735	0.0024	PASS
				10	7.8418	0.0095	PASS
				20	5.8027	0.007	PASS
				30	11.2556	0.0137	PASS
				40	12.1027	0.0147	PASS
				50	2.9366	0.0036	PASS
		MCH	VN	-30	4.7478	0.0057	PASS
				-20	0.8661	0.001	PASS
				-10	7.7637	0.0093	PASS
				0	1.5707	0.0019	PASS
				10	3.4135	0.0041	PASS
				20	3.7852	0.0045	PASS
				30	2.1497	0.0026	PASS
				40	7.6655	0.0092	PASS
				50	1.5866	0.0019	PASS
		HCH	VN	-30	13.8902	0.0164	PASS
				-20	13.6073	0.016	PASS
				-10	2.4631	0.0029	PASS
				0	3.7457	0.0044	PASS
				10	4.6755	0.0055	PASS
				20	14.1106	0.0166	PASS
				30	5.1882	0.0061	PASS
				40	0.9245	0.0011	PASS
				50	12.8161	0.0151	PASS

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Test Band	Test mode:	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 850	EGPRS	LCH	VN	-30	4.4968	0.0055	PASS
				-20	1.1019	0.0013	PASS
				-10	14.3845	0.0175	PASS
				0	5.9808	0.0073	PASS
				10	4.9417	0.006	PASS
				20	0.4996	0.0006	PASS
				30	14.1316	0.0171	PASS
				40	7.0747	0.0086	PASS
				50	12.7214	0.0154	PASS
		MCH	VN	-30	4.6775	0.0056	PASS
				-20	5.0919	0.0061	PASS
				-10	7.9784	0.0095	PASS
				0	6.7602	0.0081	PASS
				10	0.6136	0.0007	PASS
				20	14.0486	0.0168	PASS
				30	8.0118	0.0096	PASS
				40	11.7567	0.0141	PASS
				50	14.8149	0.0177	PASS
		HCH	VN	-30	12.7539	0.015	PASS
				-20	8.2320	0.0097	PASS
				-10	0.5775	0.0007	PASS
				0	10.2321	0.0121	PASS
				10	10.8849	0.0128	PASS
				20	4.2205	0.005	PASS
				30	4.5299	0.0053	PASS
				40	3.5727	0.0042	PASS
				50	11.0208	0.013	PASS

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Test Band	Test mode:	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 1900	GPRS	LCH	VN	-30	1.7376	0.0009	PASS
				-20	3.2287	0.0017	PASS
				-10	12.2289	0.0066	PASS
				0	6.9488	0.0038	PASS
				10	3.0634	0.0017	PASS
				20	12.4042	0.0067	PASS
				30	10.7908	0.0058	PASS
				40	9.1513	0.0049	PASS
				50	2.6229	0.0014	PASS
		MCH	VN	-30	1.1073	0.0006	PASS
				-20	14.2152	0.0076	PASS
				-10	5.0846	0.0027	PASS
				0	10.2745	0.0055	PASS
				10	5.5917	0.003	PASS
				20	11.4005	0.0061	PASS
				30	10.8400	0.0058	PASS
				40	5.3123	0.0028	PASS
				50	7.9035	0.0042	PASS
		HCH	VN	-30	5.8028	0.003	PASS
				-20	14.4190	0.0076	PASS
				-10	5.4898	0.0029	PASS
				0	7.2806	0.0038	PASS
				10	2.8464	0.0015	PASS
				20	5.0837	0.0027	PASS
				30	3.7208	0.0019	PASS
				40	10.7474	0.0056	PASS
				50	3.8330	0.002	PASS

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Test Band	Test mode:	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 1900	EGPRS	LCH	VN	-30	0.5208	0.0003	PASS
				-20	2.9348	0.0016	PASS
				-10	13.2186	0.0071	PASS
				0	8.5874	0.0046	PASS
				10	10.0345	0.0054	PASS
				20	1.9041	0.001	PASS
				30	10.3511	0.0056	PASS
				40	11.6721	0.0063	PASS
				50	4.1049	0.0022	PASS
		MCH	VN	-30	1.8828	0.001	PASS
				-20	8.9396	0.0048	PASS
				-10	5.6201	0.003	PASS
				0	2.0264	0.0011	PASS
				10	12.3021	0.0065	PASS
				20	5.3295	0.0028	PASS
				30	0.1200	0.0001	PASS
				40	2.4456	0.0013	PASS
				50	3.6177	0.0019	PASS
		HCH	VN	-30	5.3969	0.0028	PASS
				-20	6.1246	0.0032	PASS
				-10	11.5461	0.006	PASS
				0	11.4096	0.006	PASS
				10	12.1663	0.0064	PASS
				20	1.4802	0.0008	PASS
				30	11.6060	0.0061	PASS
				40	12.0937	0.0063	PASS
				50	10.1055	0.0053	PASS

Note: All modes have been tested and we found RMC Test mode has the worst test result. Only record the worst test result.

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6.8 Modulation Characteristics

Test Requirement: §2.1047
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: Digital modulation

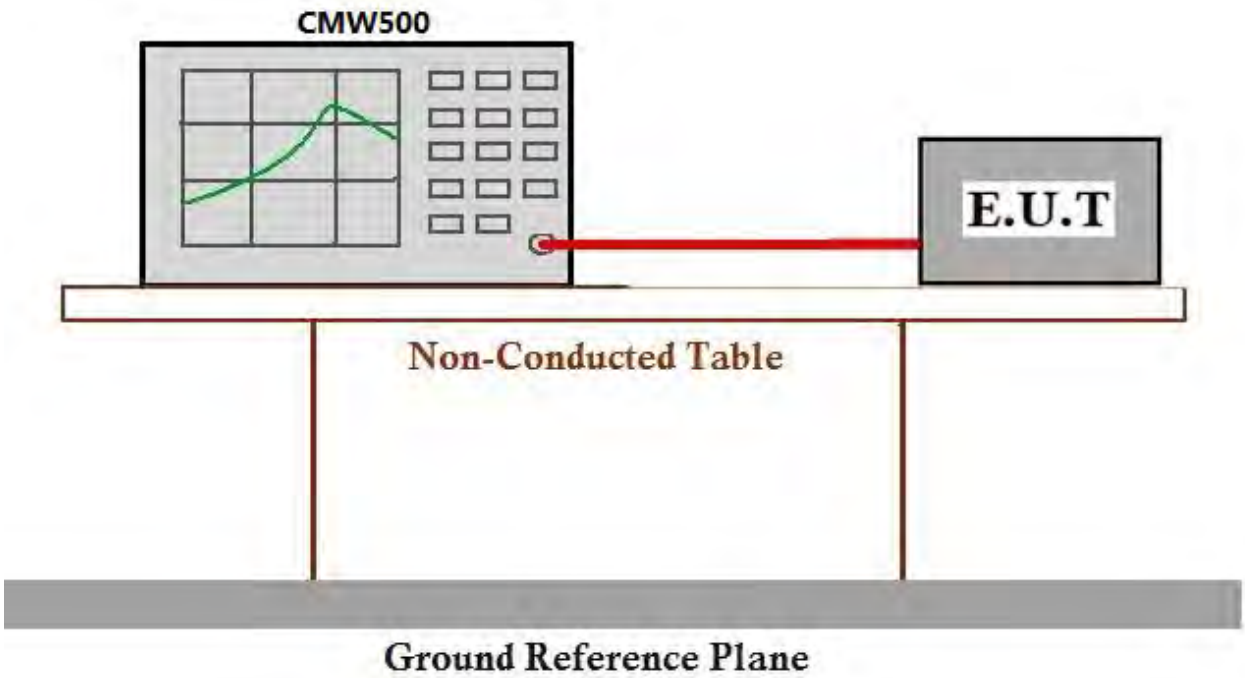
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: f:TX mode_Keep the EUT in transmitting mode

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

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Test Plot	
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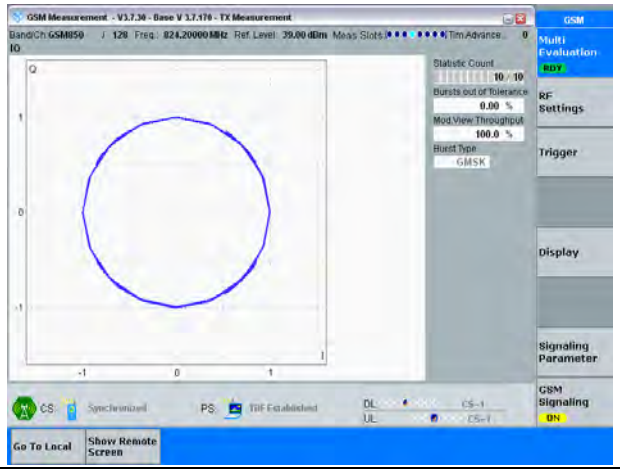	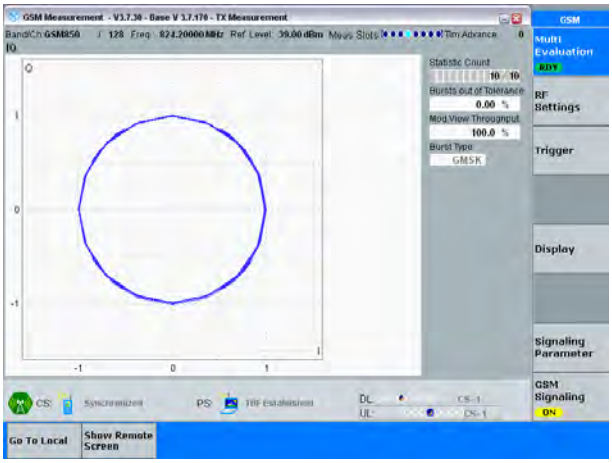
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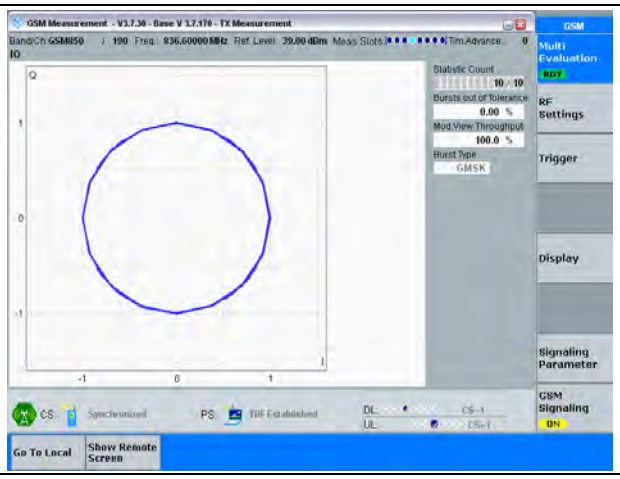	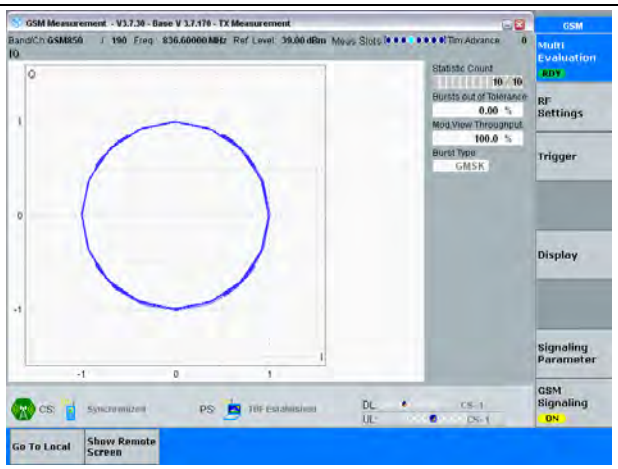
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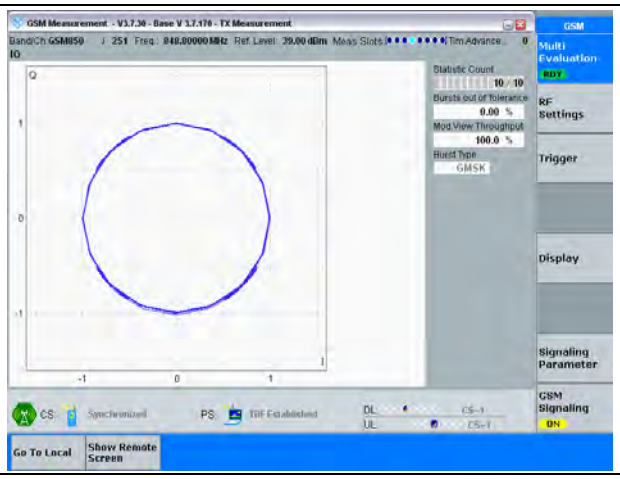	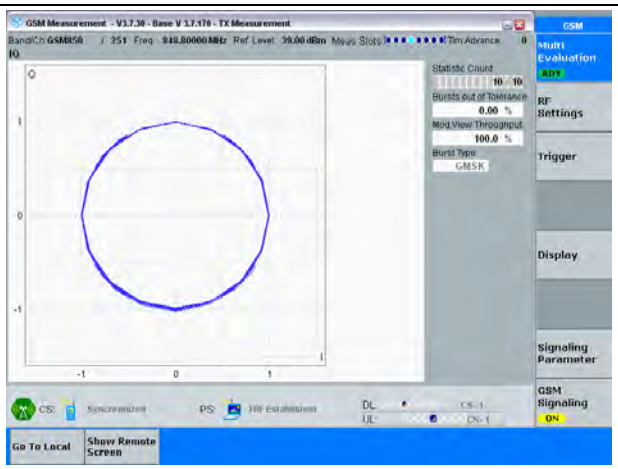

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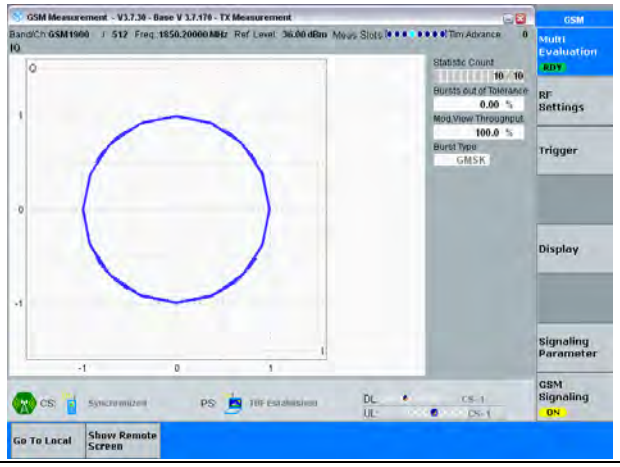	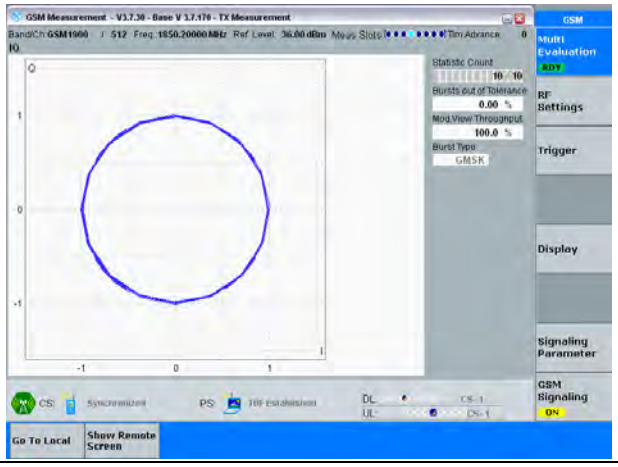
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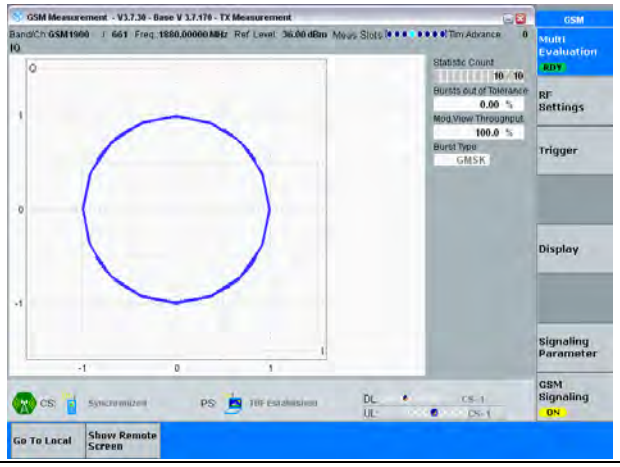	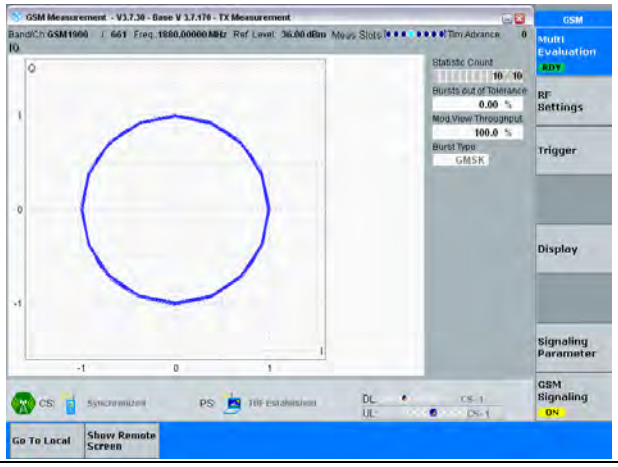
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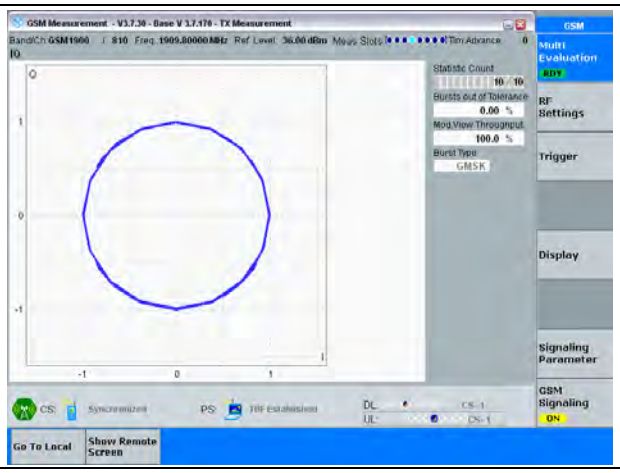	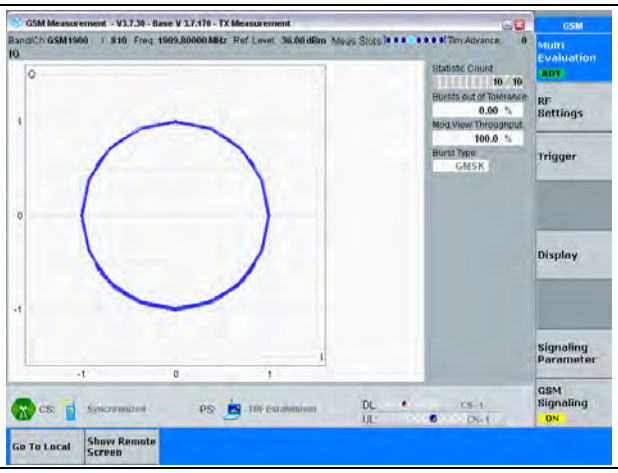

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