



# TEST REPORT

**Application No.:** GZCR2108020821AT  
**Applicant:** Dspread Technology (Beijing) Inc  
**Address of Applicant:** Rm.407, B12C, #10 (Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, China  
**Manufacturer:** Dspread Technology (Beijing) Inc  
**Address of Manufacturer:** Rm.407, B12C, #10 (Universal Business Park) Jiuxianqiao Road, Chaoyang District, Beijing, China  
**Factory:** SHENZHEN WINSTAR PRECISION ELECTRONICS CO., LTD.  
**Address of factory:** The East Side of the Floor 6, Floor 5, Building 28, Shancheng Industrial Park, Shixin Community, Langxin Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, P. R. China

**Equipment Under Test (EUT):**  
**EUT Name:** Mobile POS  
**Model No.:** QPOS Plus  
**Trade mark:** DSPREAD  
**Standard(s) :** 47 CFR Part 2  
 47 CFR Part 22 subpart H  
 47 CFR Part 24 subpart E

**Date of Receipt:** 2021-08-05  
**Date of Test:** 2021-08-06 to 2021-08-27  
**Date of Issue:** 2021-09-01

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian  
 EMC Laboratory Manager



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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2021-09-01		Original

<b>Authorized for issue by</b>			
			
		<b>Curry Wu/Project Engineer</b>	
			
		<b>Ricky Liu/Reviewer</b>	



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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(GSM1900)	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.

Power supply:	DC 3.7V by rechargeable lithium battery. Adapter model: TPA-46B050100UU Input: AC 100-240V 50/60Hz 0.2A Output: DC 5V 1A
Cable(s):	USB type C cable: 1m shielded cable without ferrite core
Sample Type:	Portable production
Support Network:	GPRS, EGPRS
Operation Frequency Band:	GSM850/GSM1900
Modulation Type:	GMSK for GPRS/EGPRS; 8PSK for EGPRS;
Supported Channel Bandwidth:	200KHz for GSM
GPRS Class:	12
EGPRS Class:	12
UMTS Power Class:	Level 3
Antenna Type:	PIFA antenna
Antenna Gain:	GSM850: 0.33dBi; GSM1900:-0.33dBi
SIM Card:	This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.
Extreme temp. Tolerance:	-30°C to +50°C
Extreme vol. Limits:	3.4VDC to 4.2VDC (nominal: 3.7VDC)



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**4.2 Test Frequency**

Test mode:	RF Channel		
	Low (L)	Middle (M)	High (H)
GSM850	Channel 128	Channel 190	Channel 251
	824.2MHz	836.6 MHz	848.8 MHz
Test mode:	RF Channel		
	Low (L)	Middle (M)	High (H)
GSM1900	Channel 512	Channel 661	Channel 810
	1850.2MHz	1880.0 MHz	1909.8 MHz

**4.3 Test Environment**

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TN	20 °C
Voltage:	VL	3.4 V
	VN	3.7 V
	VH	4.2 V

NOTE: VL= lower extreme test voltage  
 VN= nominal voltage  
 VH= upper extreme test voltage  
 TN= normal 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 <sup>-8</sup>
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	5.14dB (below 1GHz)
		5.08dB (above 1GHz)
8	Radiated Spurious emission test	5.14dB (below 1GHz)
		5.08dB (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:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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#### 4.7 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 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
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2020-09-20	2021-09-19
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch 2	SEM009-02	2021-05-19	2022-05-18

RE in Chamber(below 1GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)	SCHWARZBECK	VULB 9160	EMC2025	2020-09-24	2023-09-23
Signal Generator (10MHz-20GHz)	Rohde & Schwarz	SMR20	EMC0516	2021-01-11	2022-01-10
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2020-09-20	2021-09-19



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<b>RE in Chamber(above 1GHz)</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal. Date</b>	<b>Cal. Due date</b>
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS- ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2020-09-09	2021-09-08
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2020-09-20	2021-09-19
Substitution Antenna	SCHWARZBECK MESS- ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
Signal Generator (10MHz-20GHz)	Rohde & Schwarz	SMR20	EMC0516	2021-01-11	2022-01-10

<b>General used equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-04
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-04



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## 6 Radio Spectrum Matter Test Results

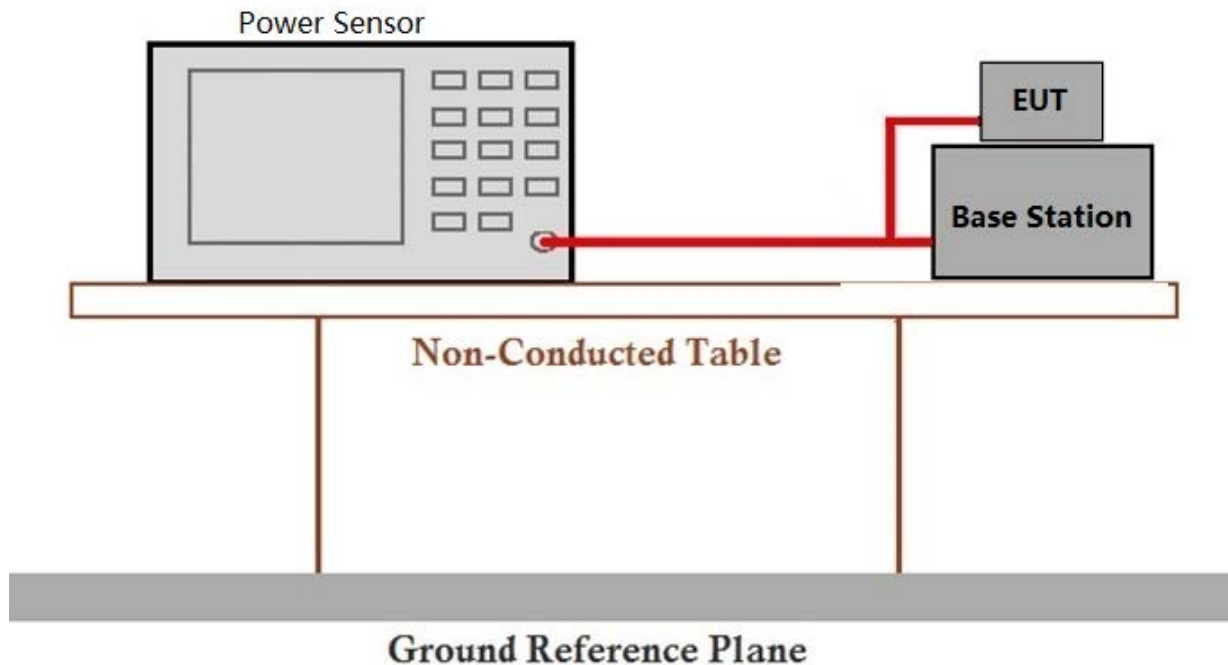
### 6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ERP ≤ 7W(GSM850)  
 EIRP ≤ 2W(GSM1900)

#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 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	32.42	32.33	32.13	-1.82	0.33	30.6	30.51	30.31	38.45	PASS
	2 TX Slots	32.29	32.24	32.03	-1.82	0.33	30.47	30.42	30.21	38.45	PASS
	3 TX Slots	31.06	31.04	30.80	-1.82	0.33	29.24	29.22	28.98	38.45	PASS
	4 TX Slots	29.17	29.11	28.77	-1.82	0.33	27.35	27.29	26.95	38.45	PASS
GPRS	1 TX Slot	32.40	32.25	32.05	-1.82	0.33	30.58	30.43	30.23	38.45	PASS
	2 TX Slots	32.28	32.19	31.96	-1.82	0.33	30.46	30.37	30.14	38.45	PASS
	3 TX Slots	30.94	30.90	30.67	-1.82	0.33	29.12	29.08	28.85	38.45	PASS
	4 TX Slots	29.08	28.99	28.63	-1.82	0.33	27.26	27.17	26.81	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	21.02	20.97	22.43	/	-0.33	20.69	20.64	22.1	33.01	PASS
	2 TX Slots	20.87	20.82	22.33	/	-0.33	20.54	20.49	22	33.01	PASS
	3 TX Slots	20.70	20.69	22.21	/	-0.33	20.37	20.36	21.88	33.01	PASS
	4 TX Slots	20.57	20.55	22.05	/	-0.33	20.24	20.22	21.72	33.01	PASS
GPRS	1 TX Slot	21.06	20.75	22.27	/	-0.33	20.73	20.42	21.94	33.01	PASS
	2 TX Slots	20.95	20.75	22.22	/	-0.33	20.62	20.42	21.89	33.01	PASS
	3 TX Slots	21.30	20.65	22.13	/	-0.33	20.97	20.32	21.8	33.01	PASS
	4 TX Slots	20.32	20.53	22.02	/	-0.33	19.99	20.2	21.69	33.01	PASS

Note:

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



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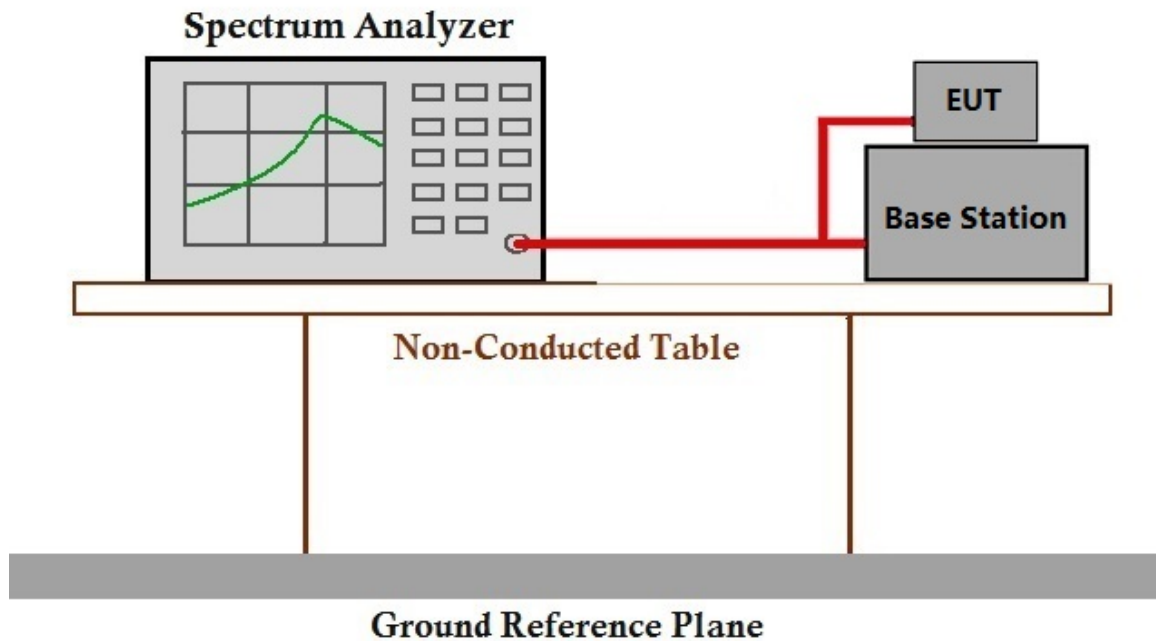
**6.2 Peak-Average Ratio**

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: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
 Test mode: f:TX mode\_Keep the EUT in transmitting mode

**6.2.2 Test Setup Diagram**



**6.2.3 Measurement Data**



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**Guangzhou Branch**

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Test Band: GSM850					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
EGPRS	3.92	3.85	3.95	13	PASS
GPRS	3.99	4.00	3.97	13	PASS

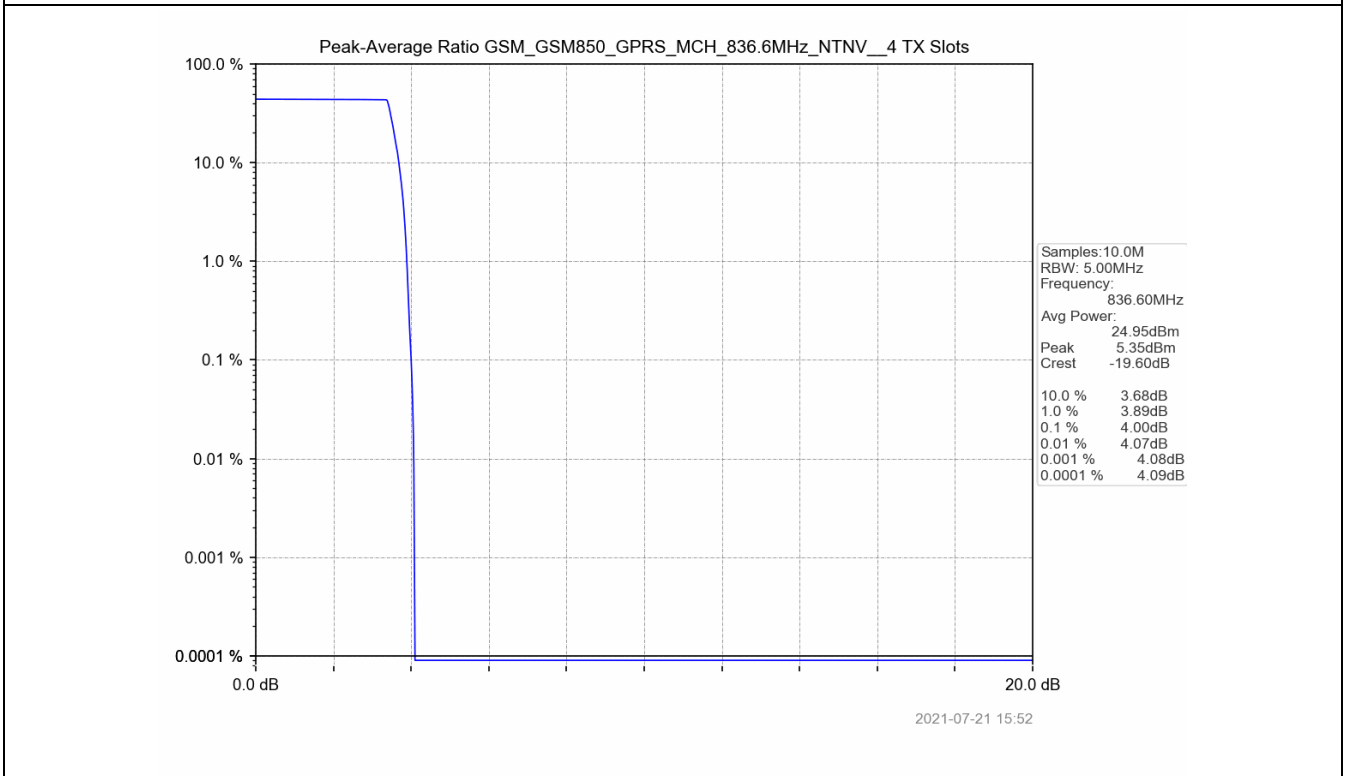
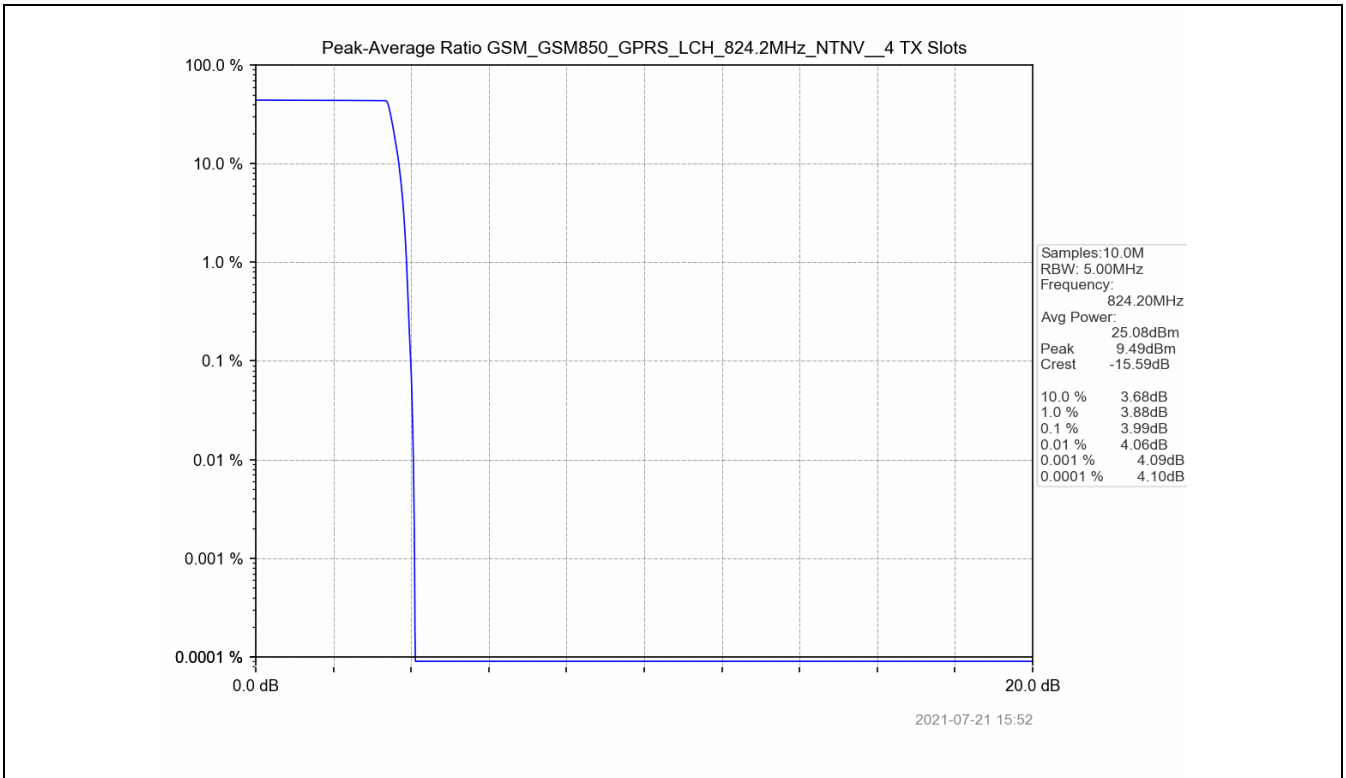
Test Band: PCS1900					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
EGPRS	3.77	3.87	3.81	13	PASS
GPRS	3.97	3.84	3.85	13	PASS



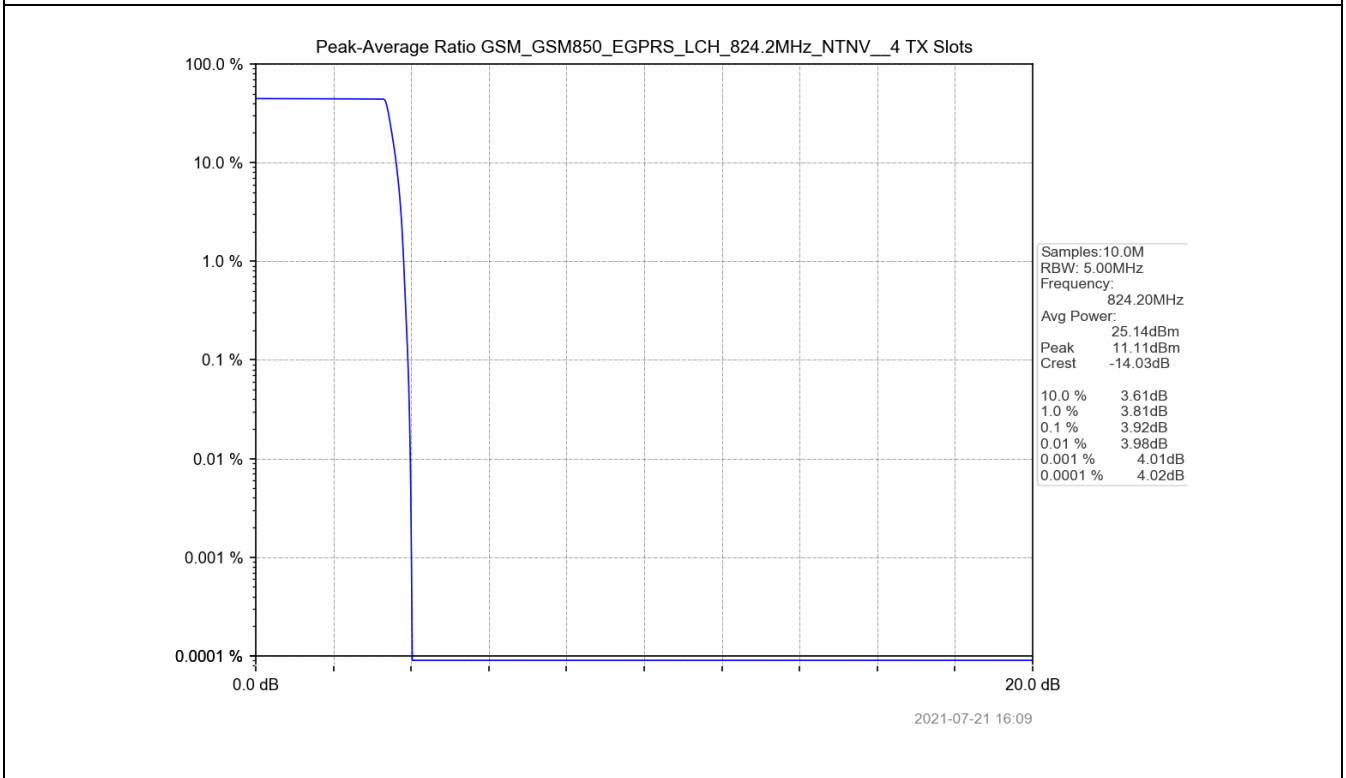
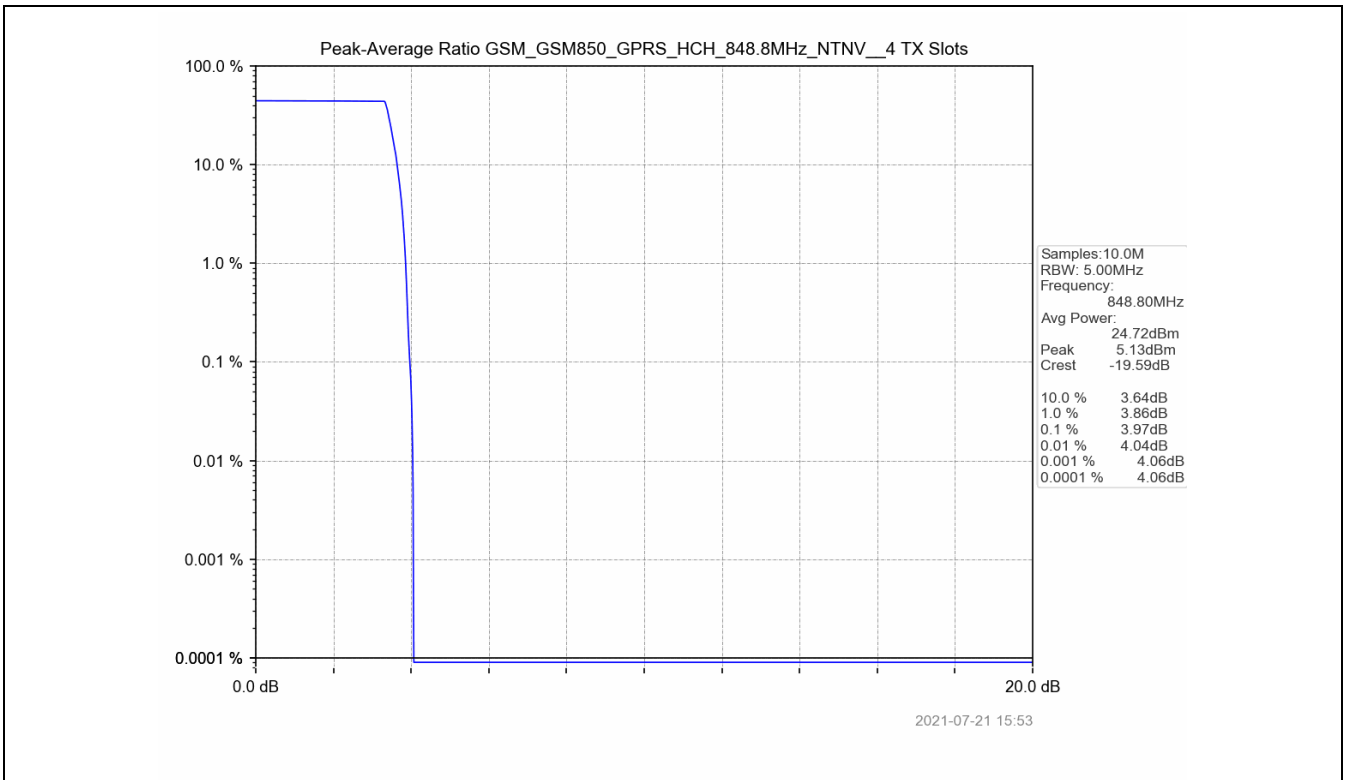
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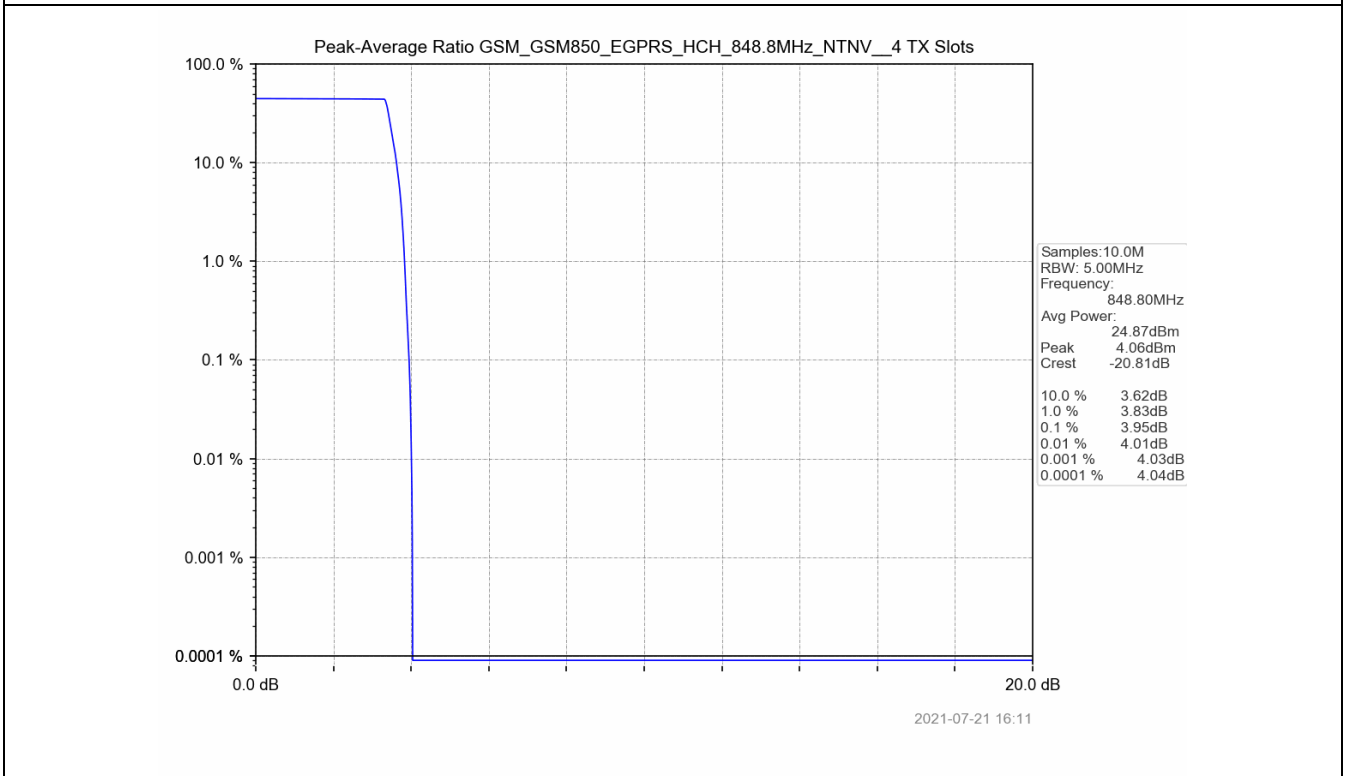




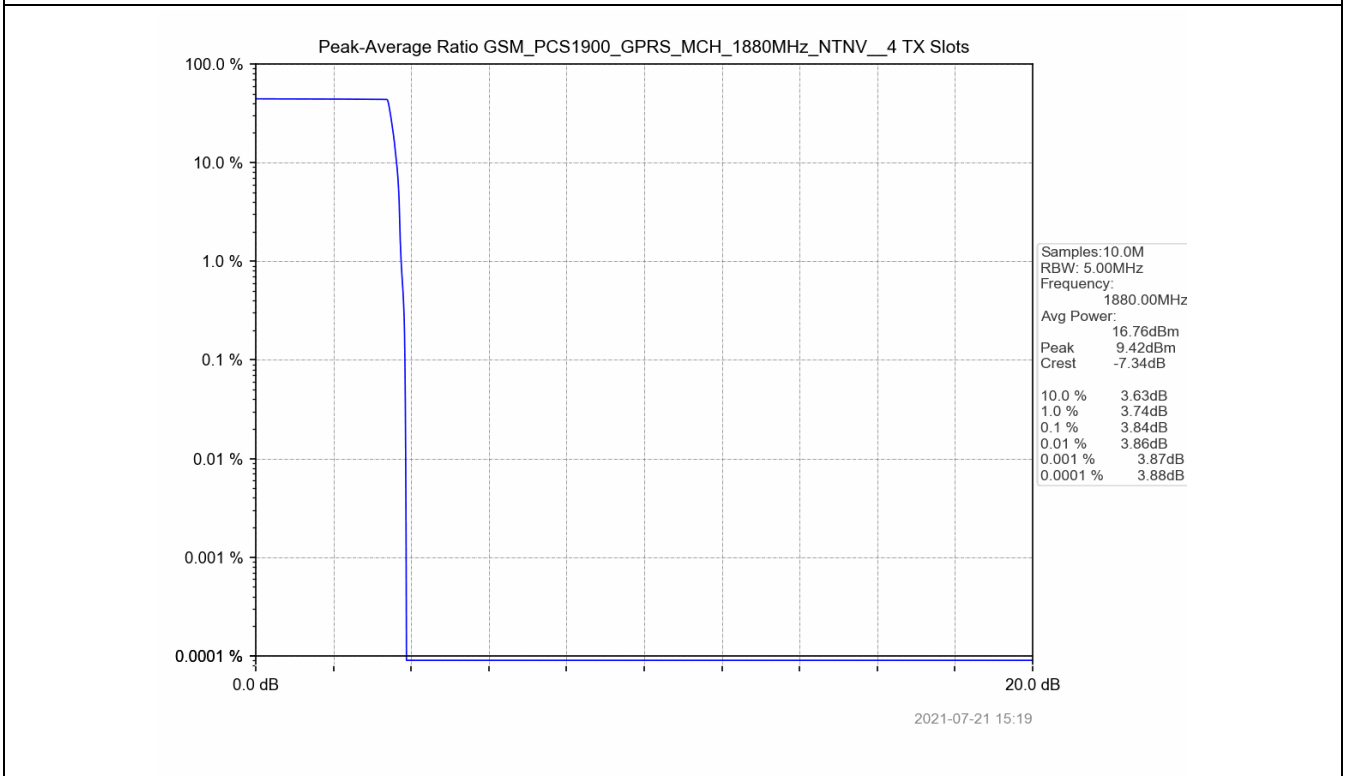
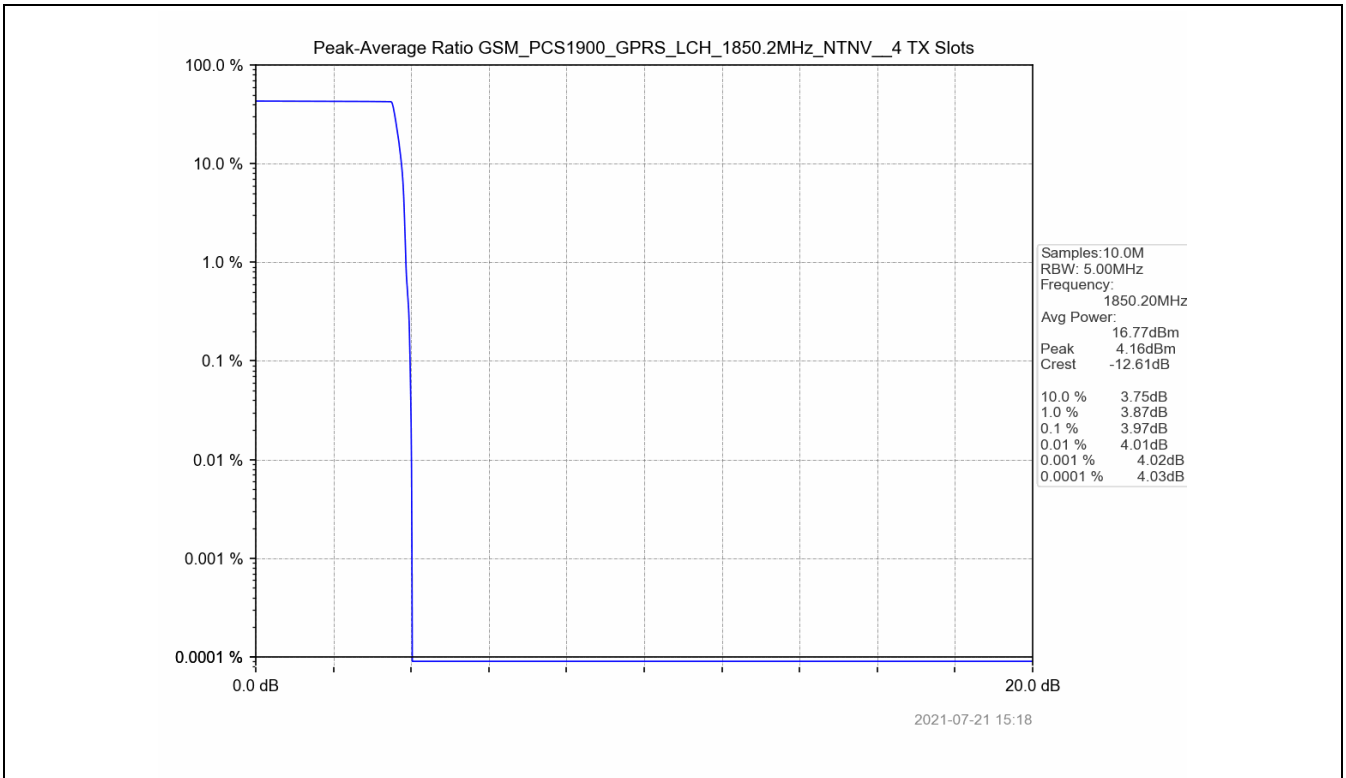
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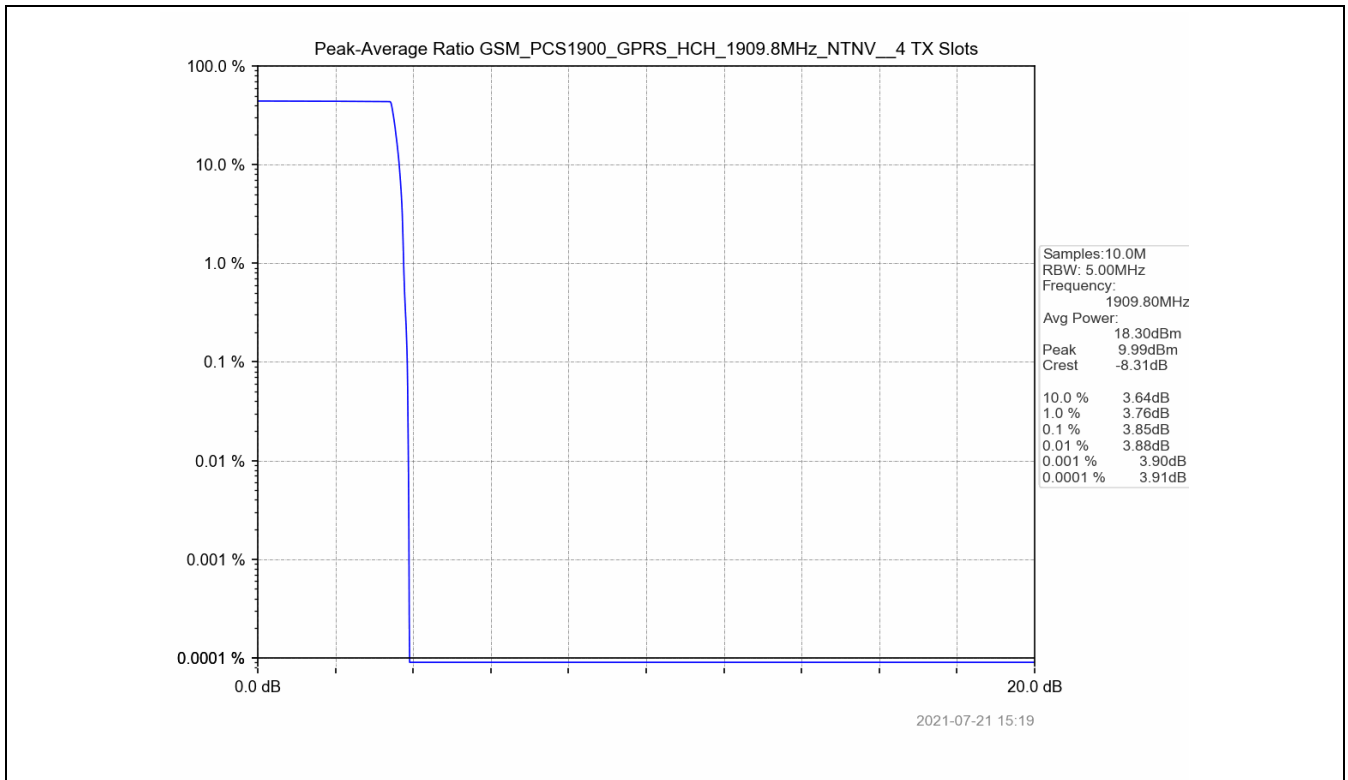
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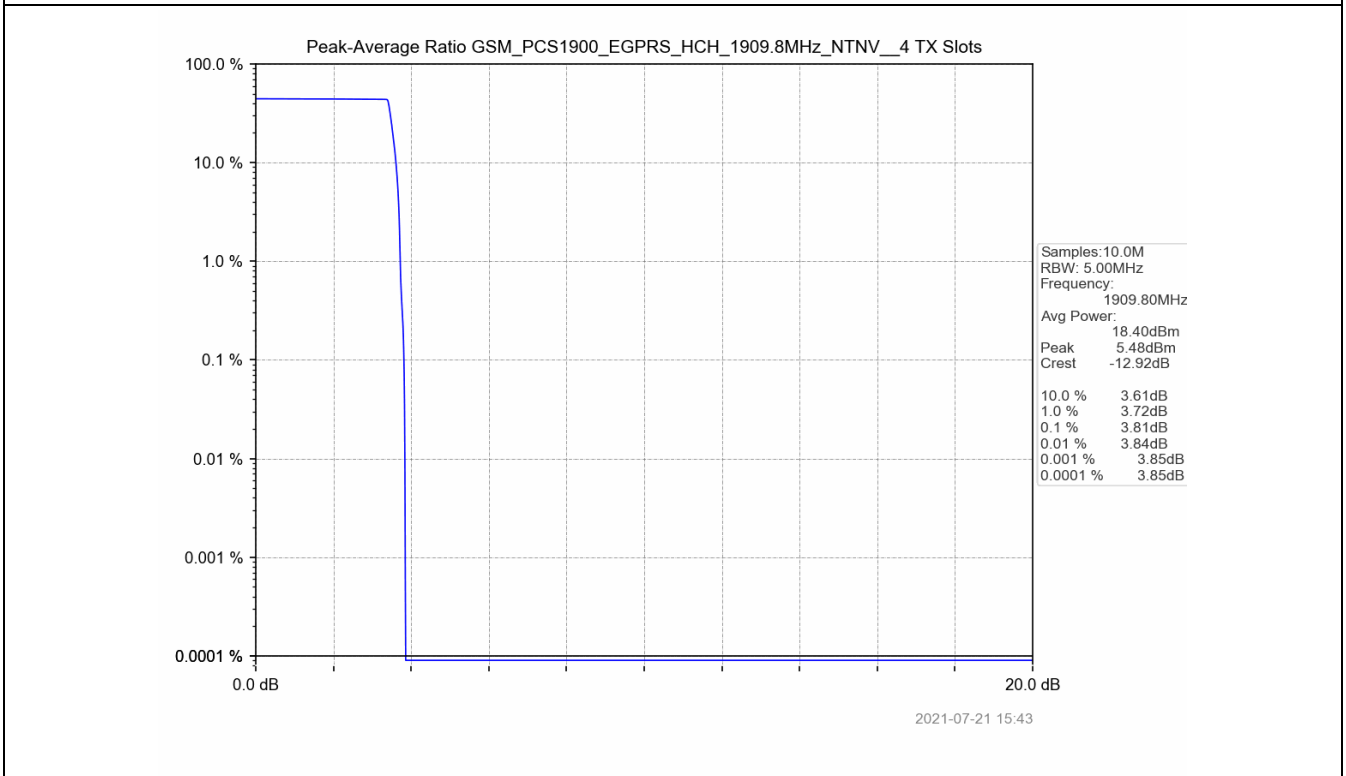
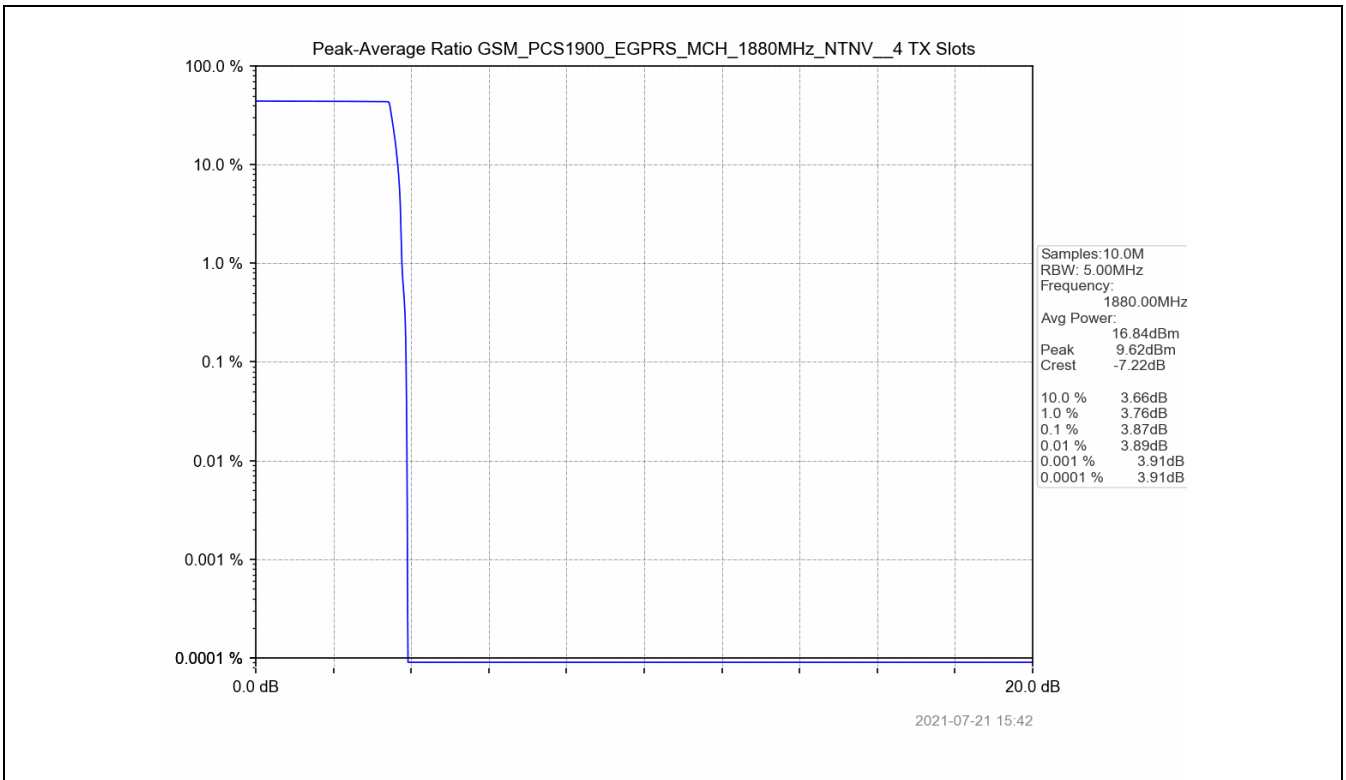
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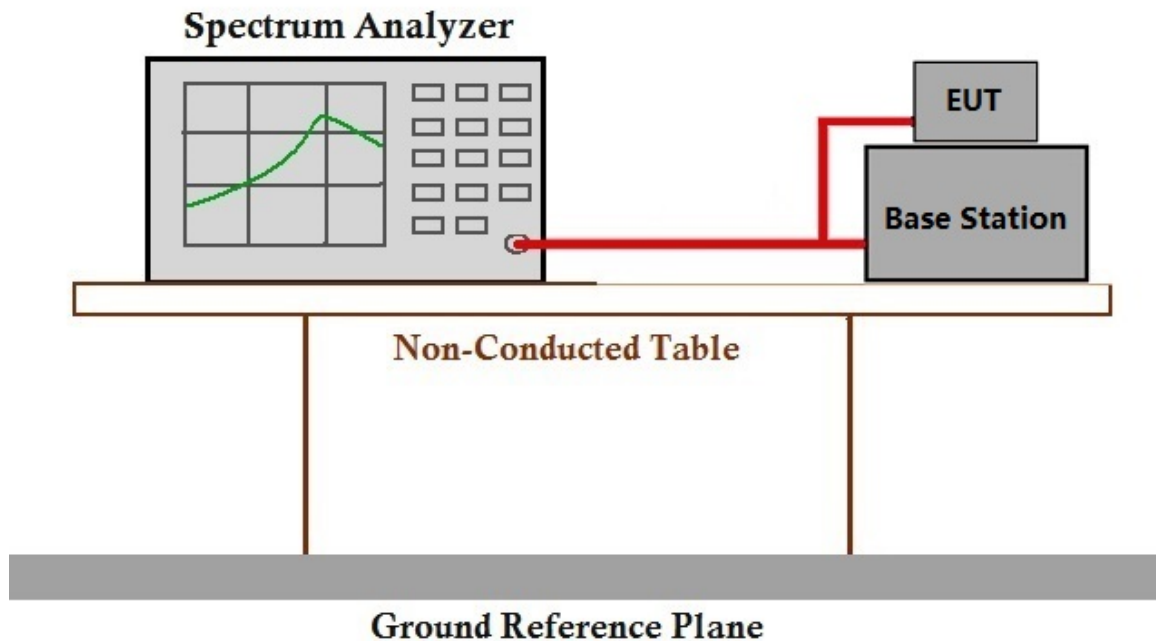
**6.3 Bandwidth**

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: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 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 Band: GSM850					
Test Mode	99% Occupied Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.244	0.246	0.247	N/A	PASS
GPRS	0.249	0.245	0.249	N/A	PASS

Test Band: PCS1900					
Test Mode	99% Occupied Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.245	0.247	0.247	N/A	PASS
GPRS	0.246	0.244	0.246	N/A	PASS

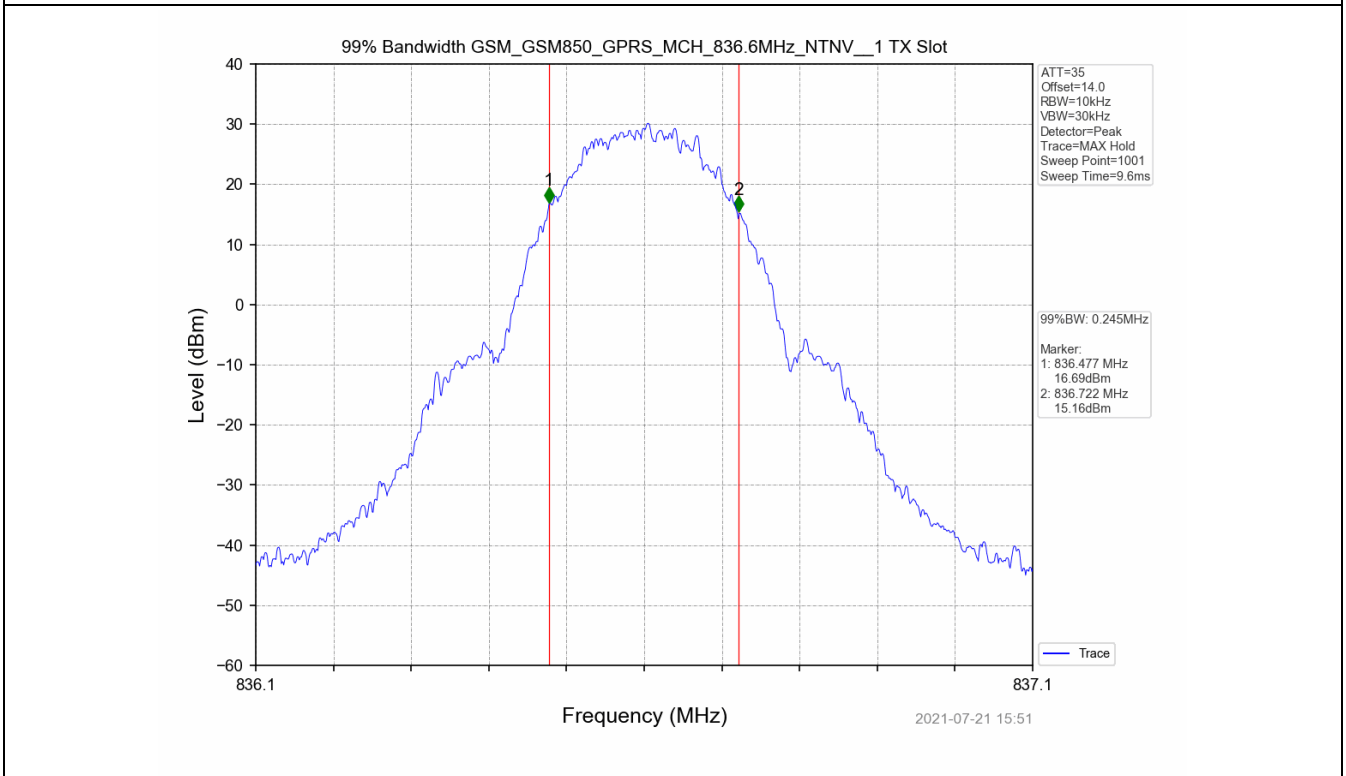
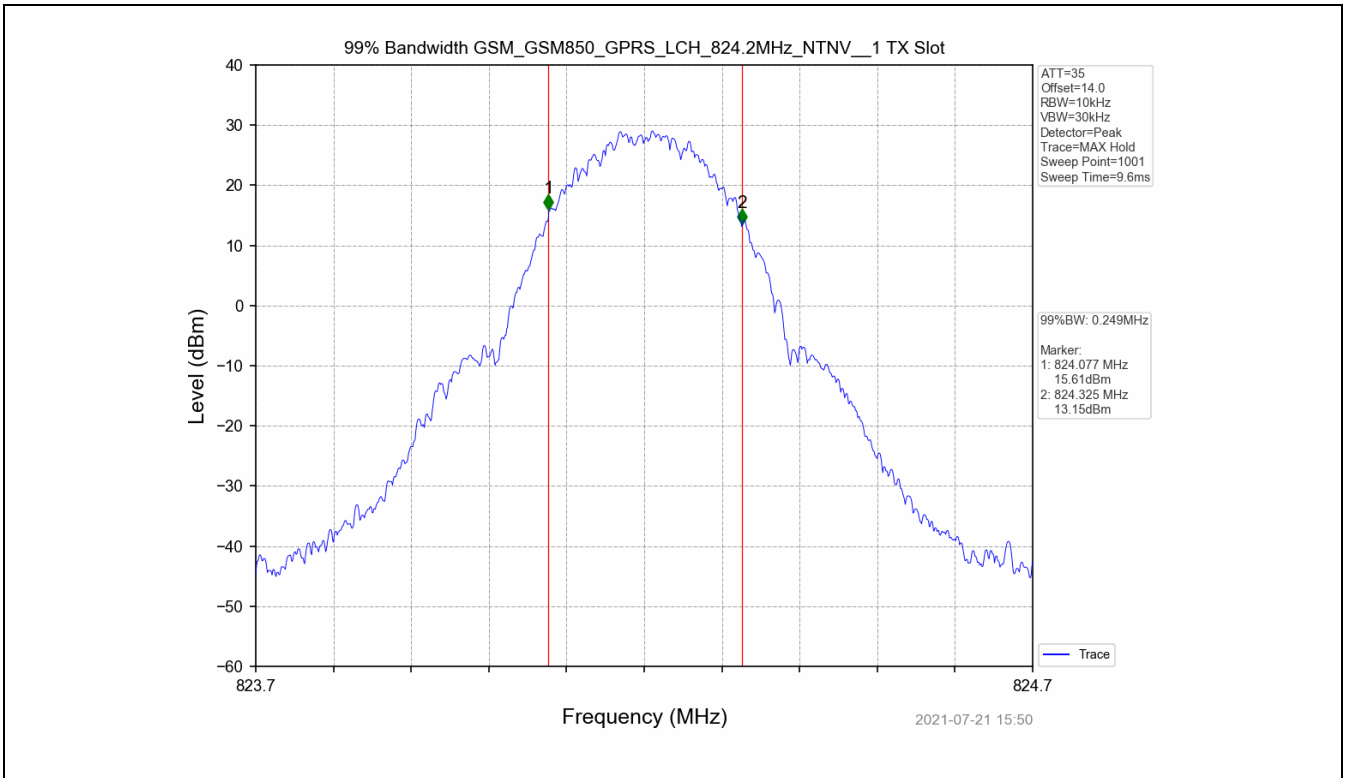
Test Band: GSM850					
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.315	0.317	0.326	N/A	PASS
GPRS	0.325	0.316	0.318	N/A	PASS

Test Band: PCS1900					
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.320	0.312	0.322	N/A	PASS
GPRS	0.317	0.318	0.319	N/A	PASS



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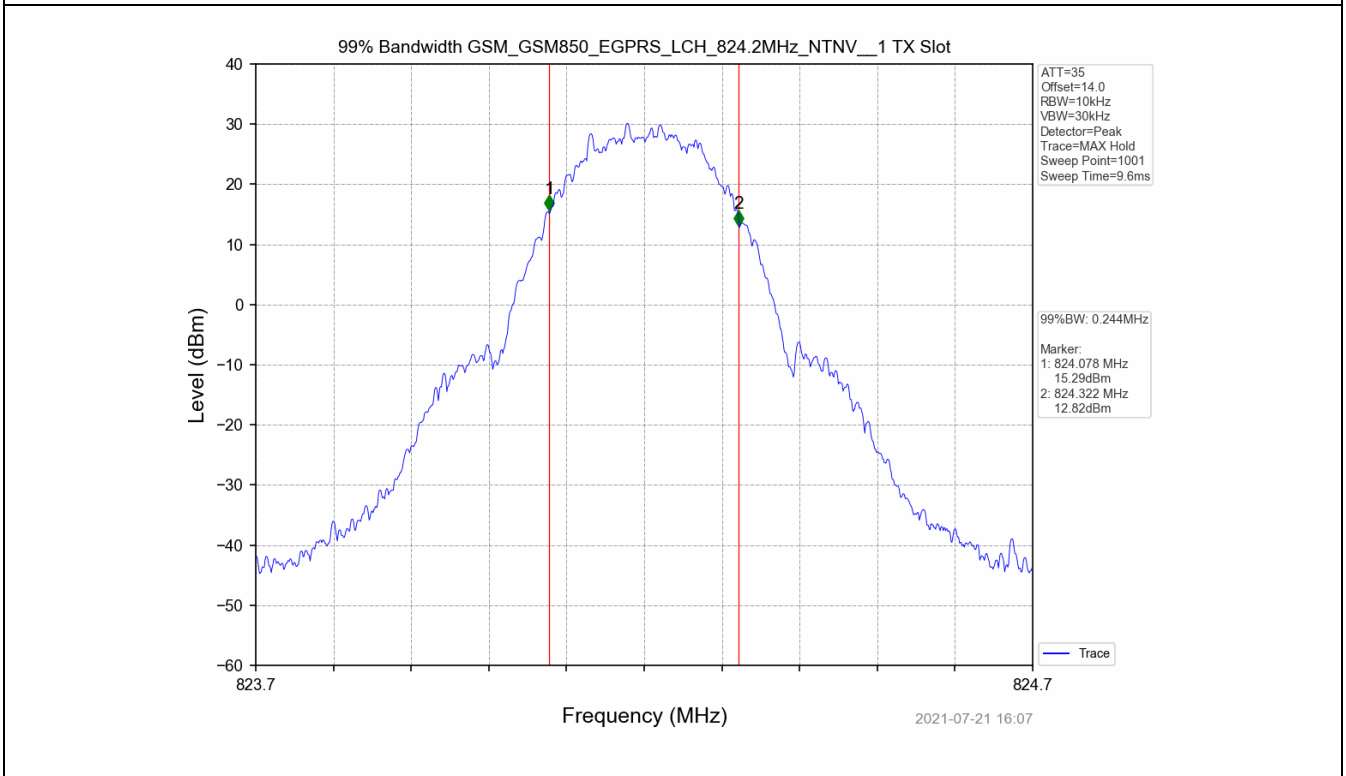
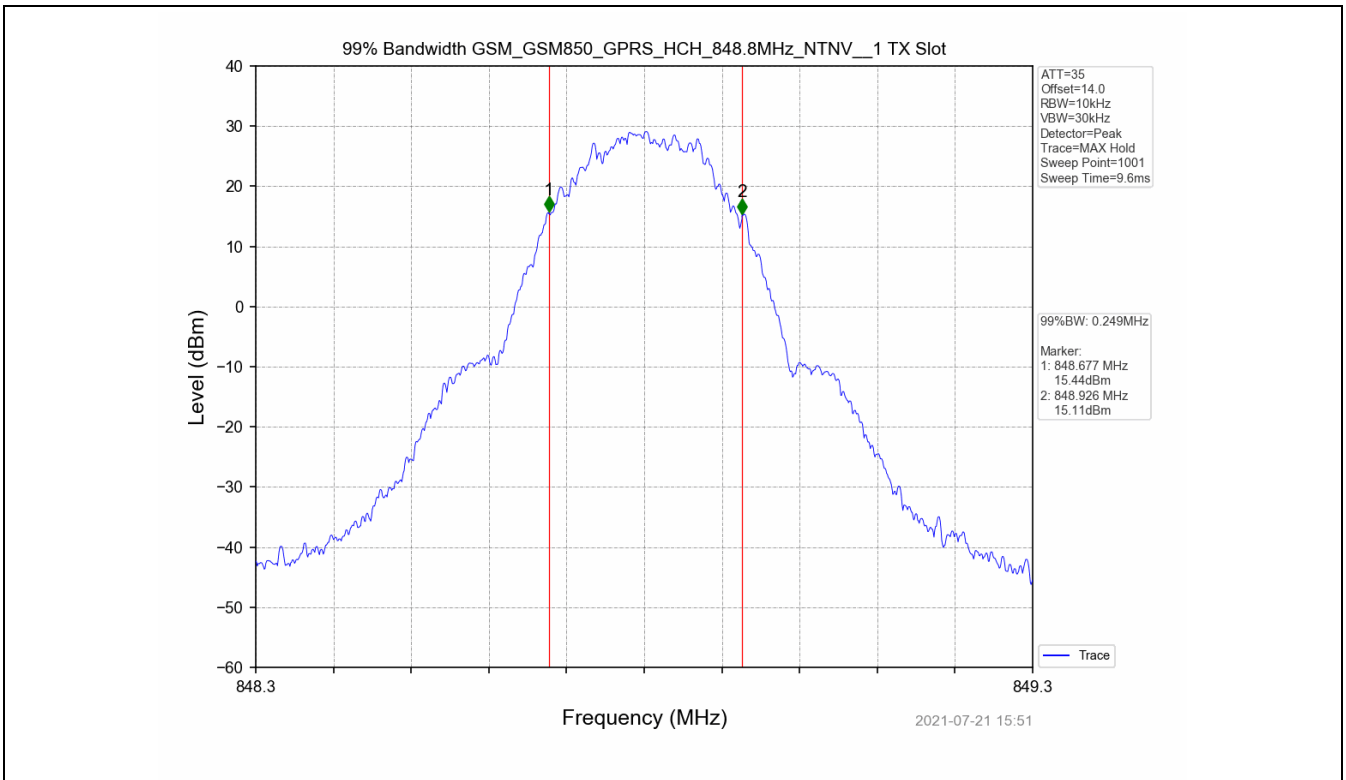




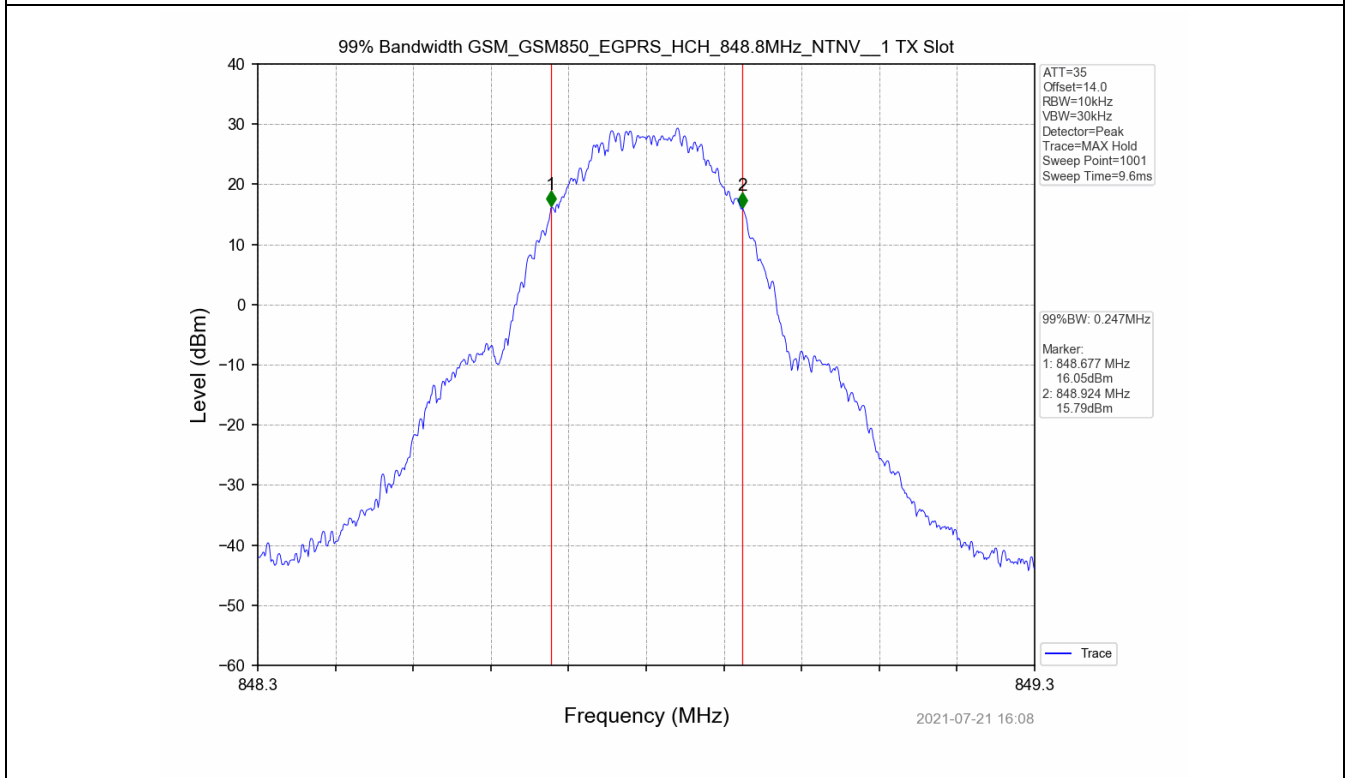
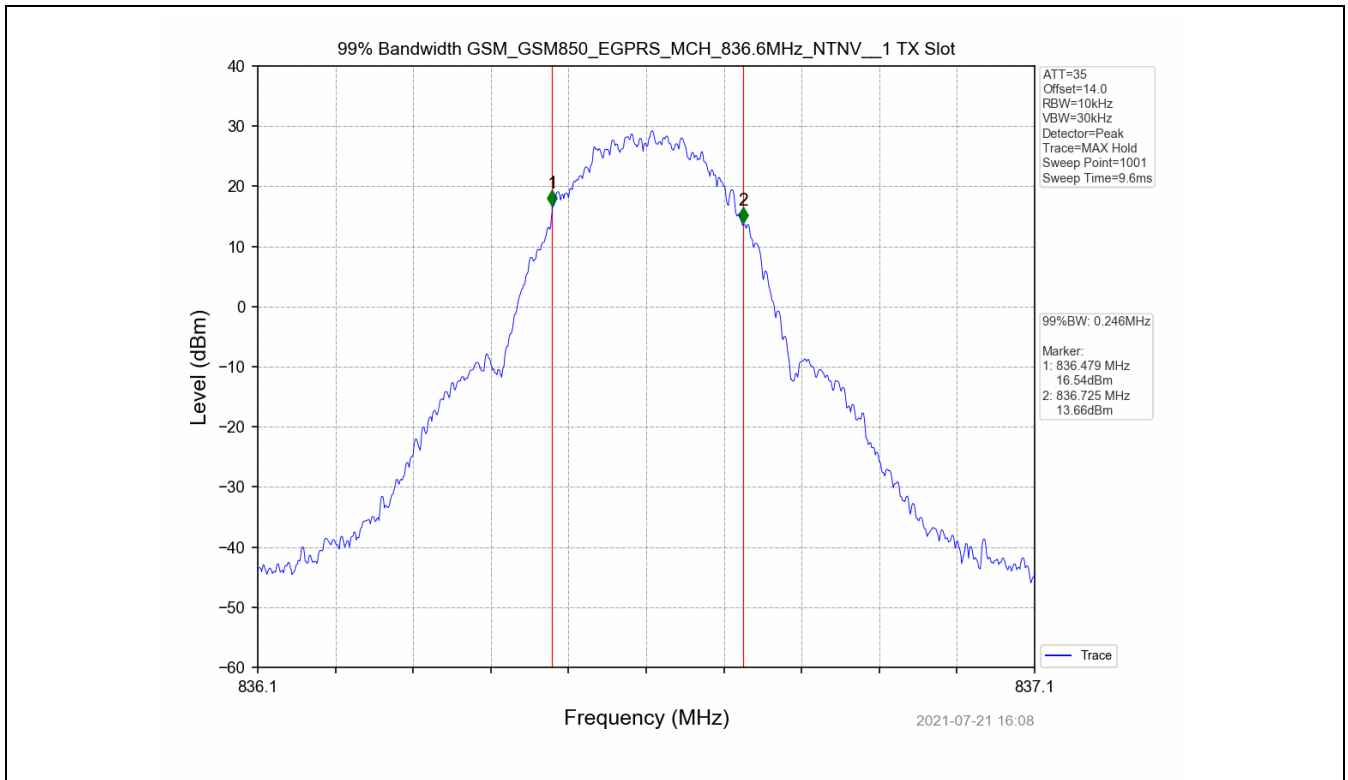
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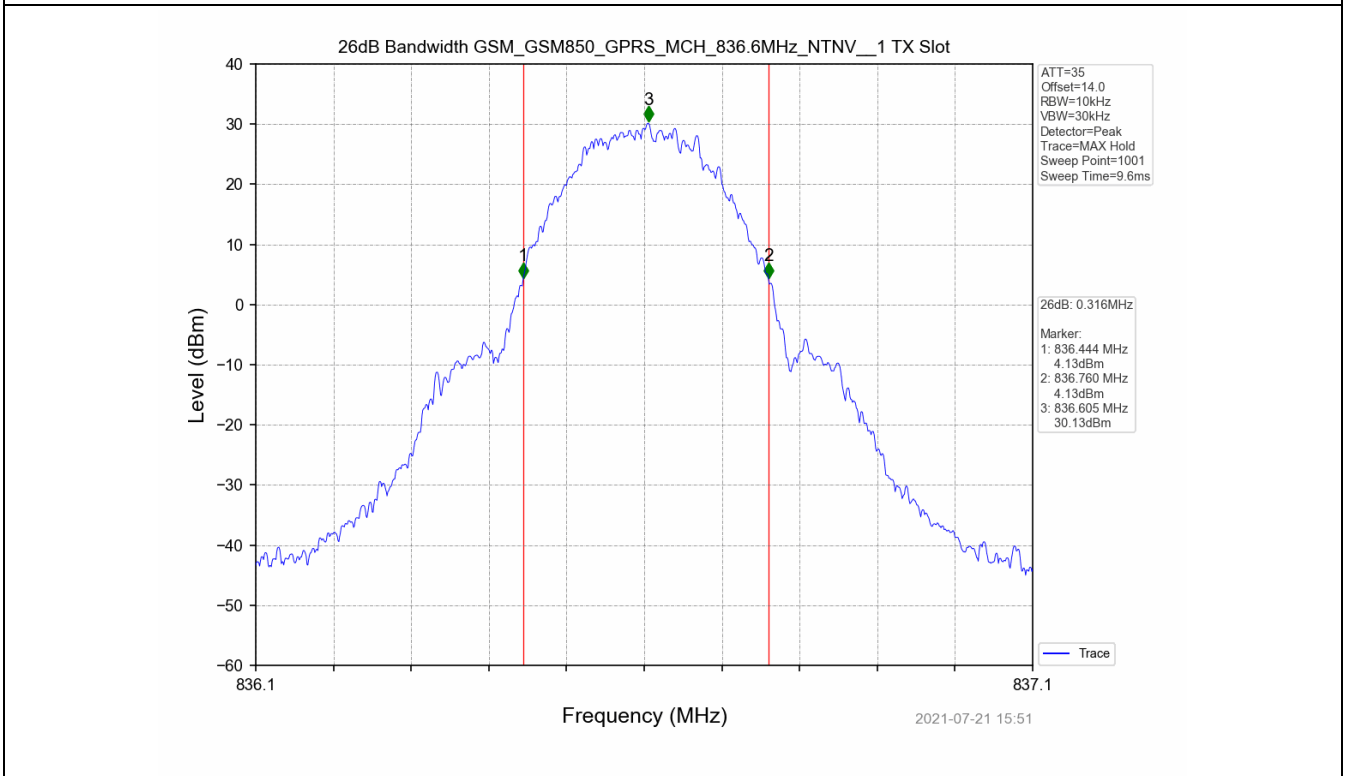
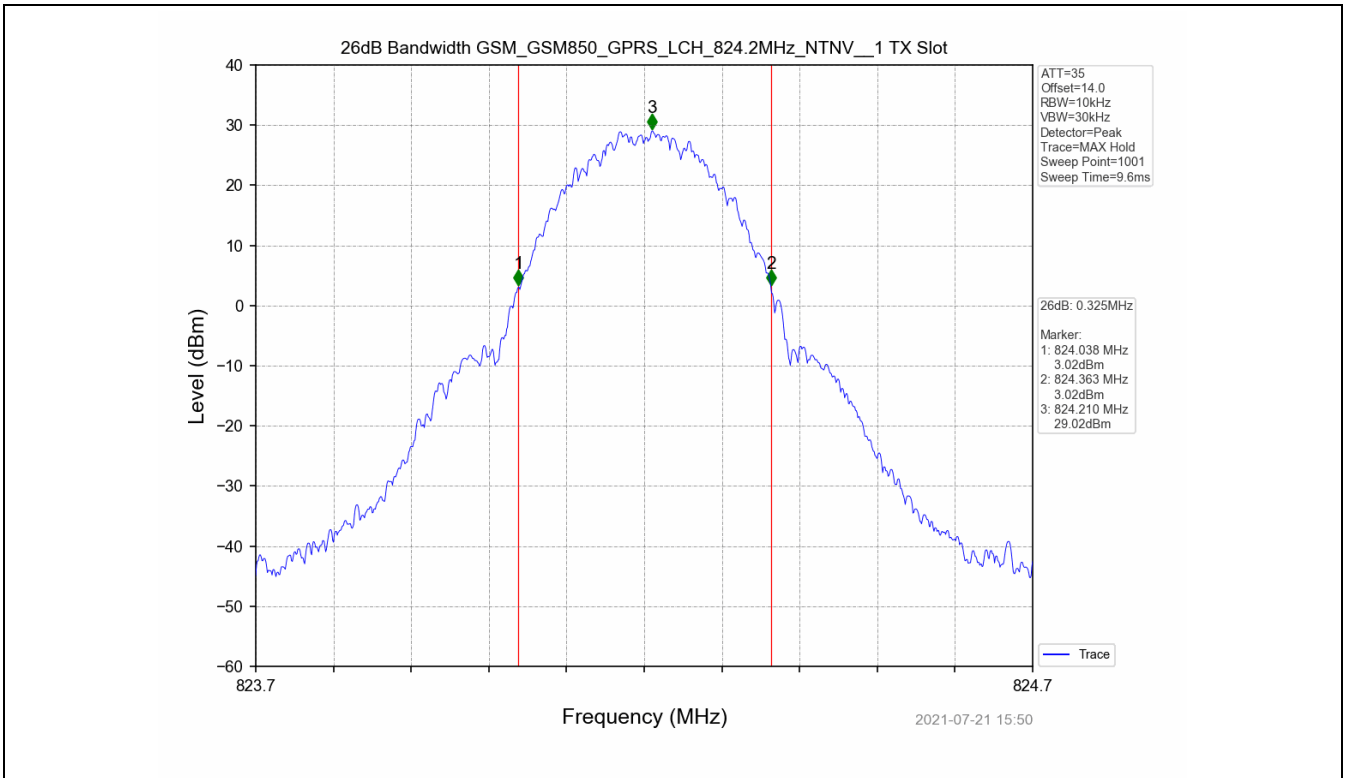
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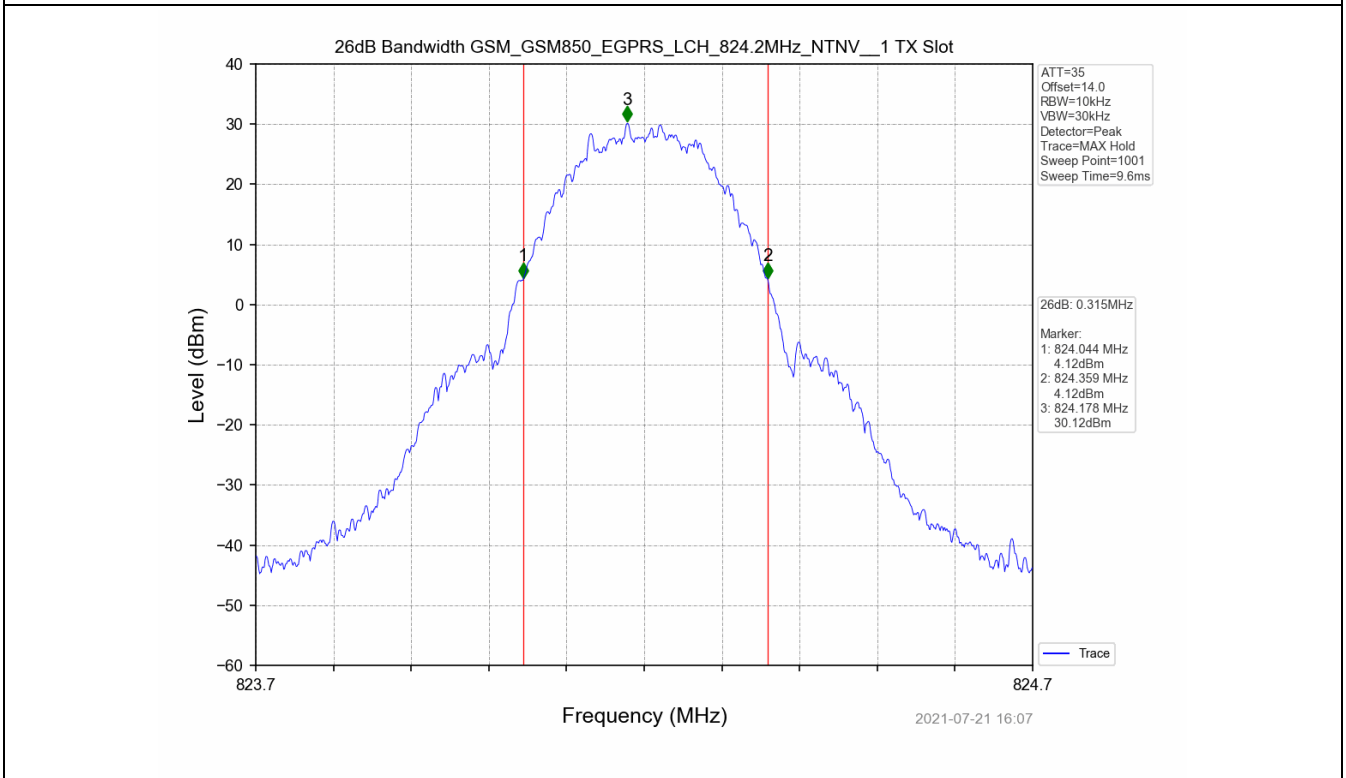
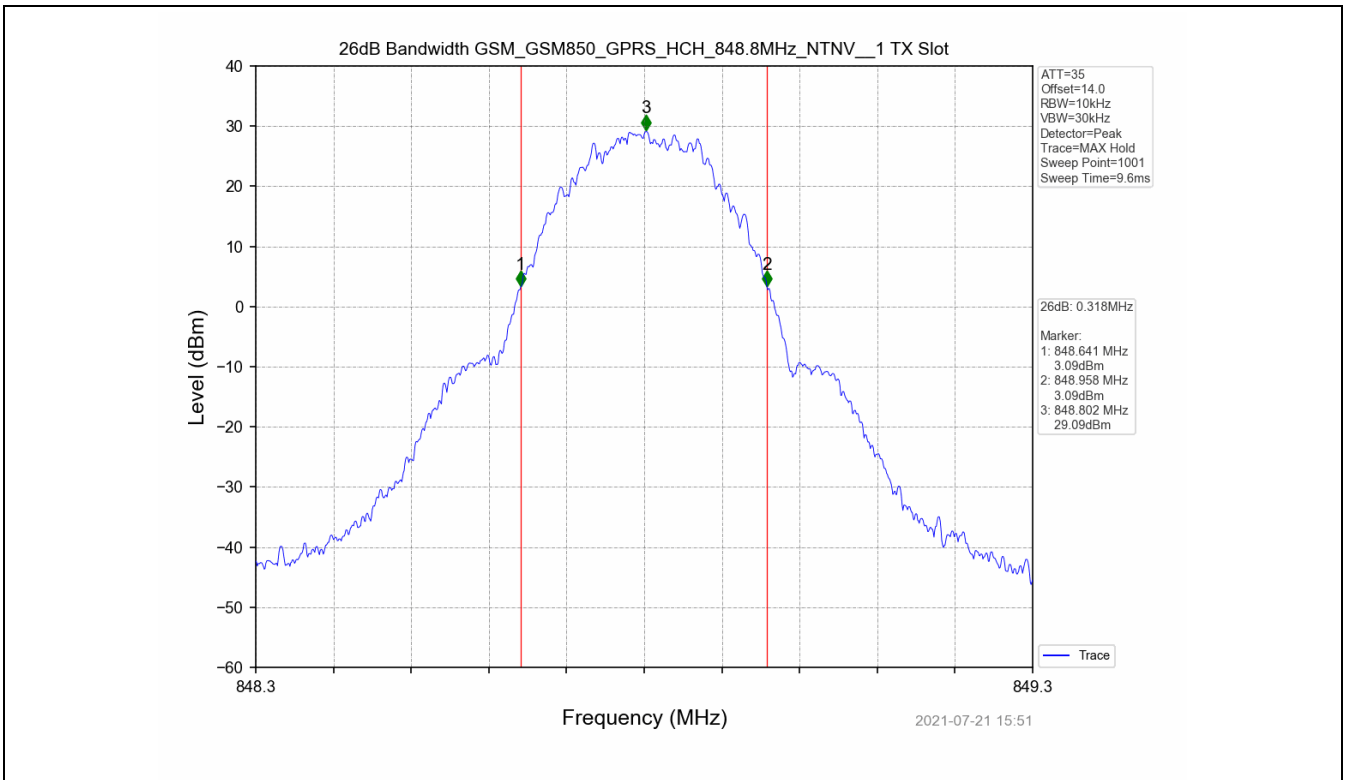
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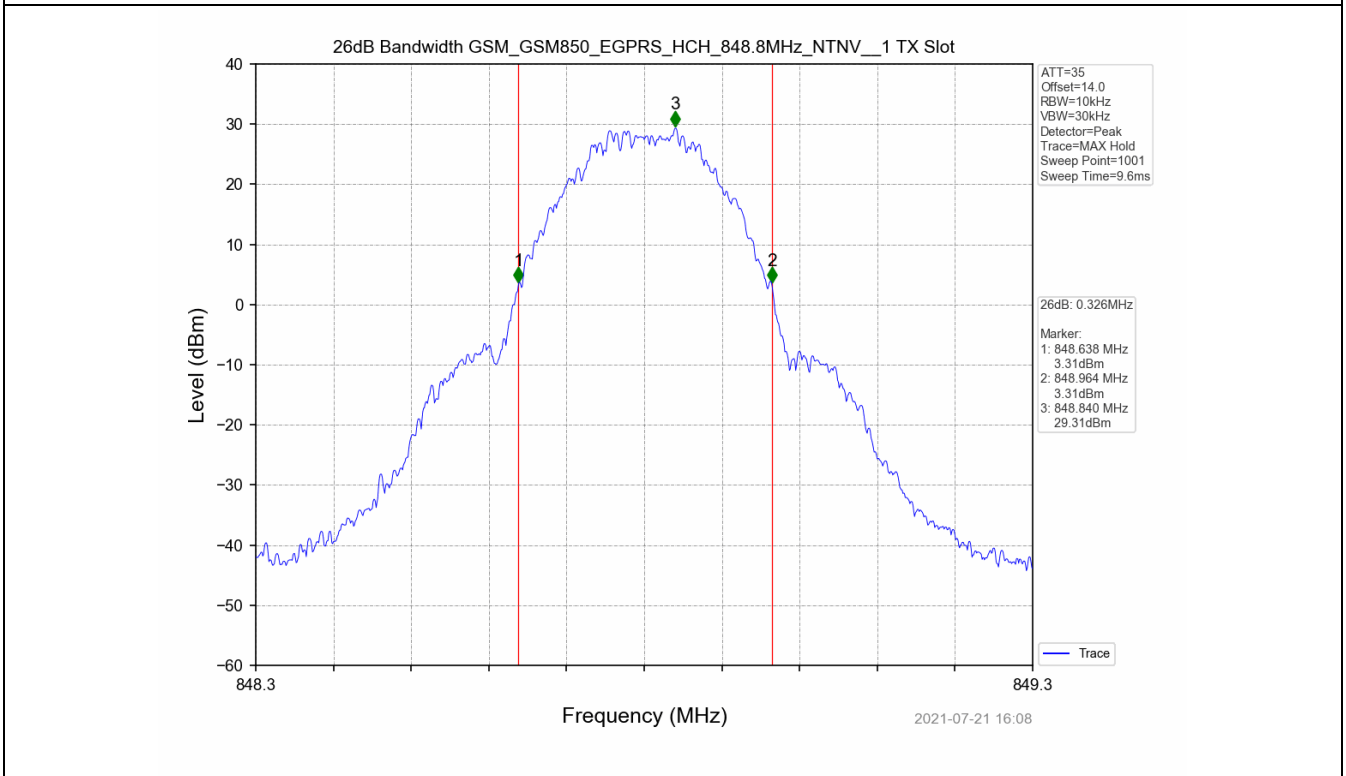
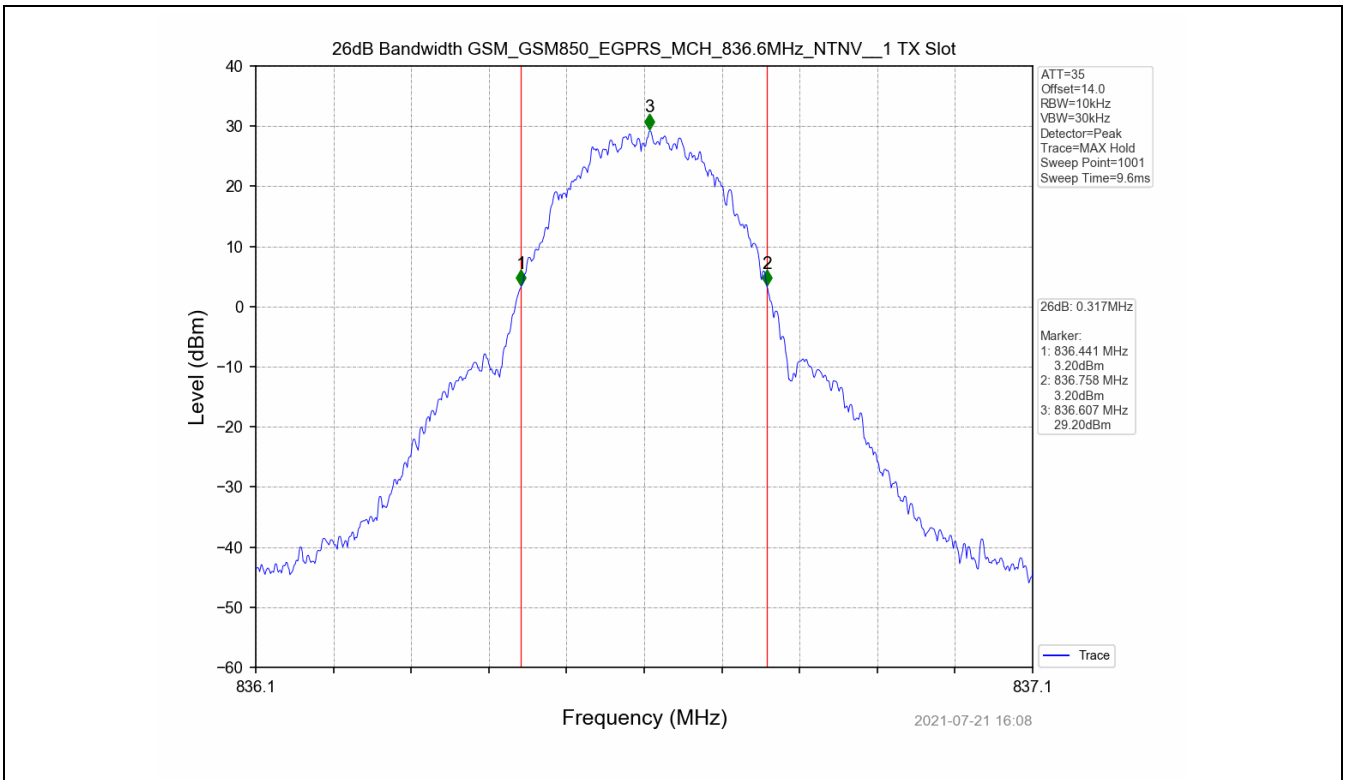
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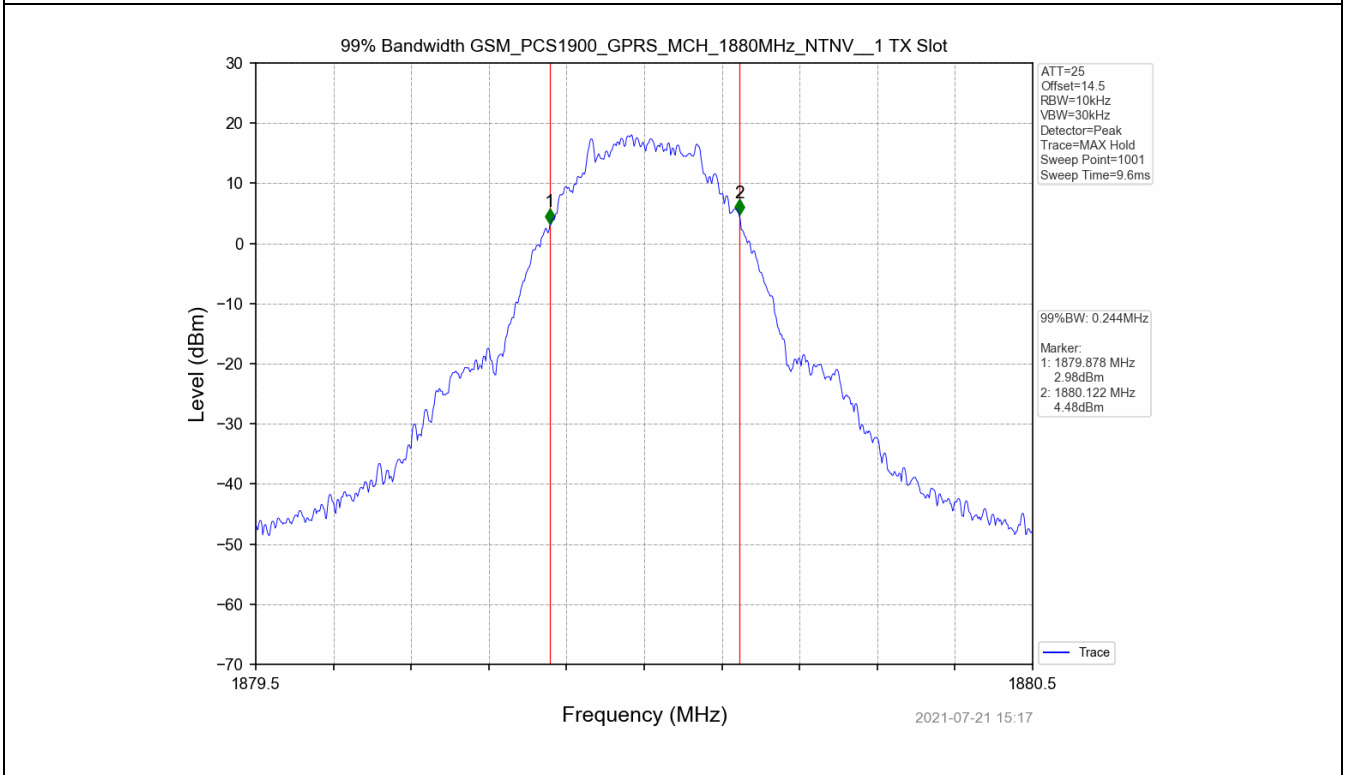
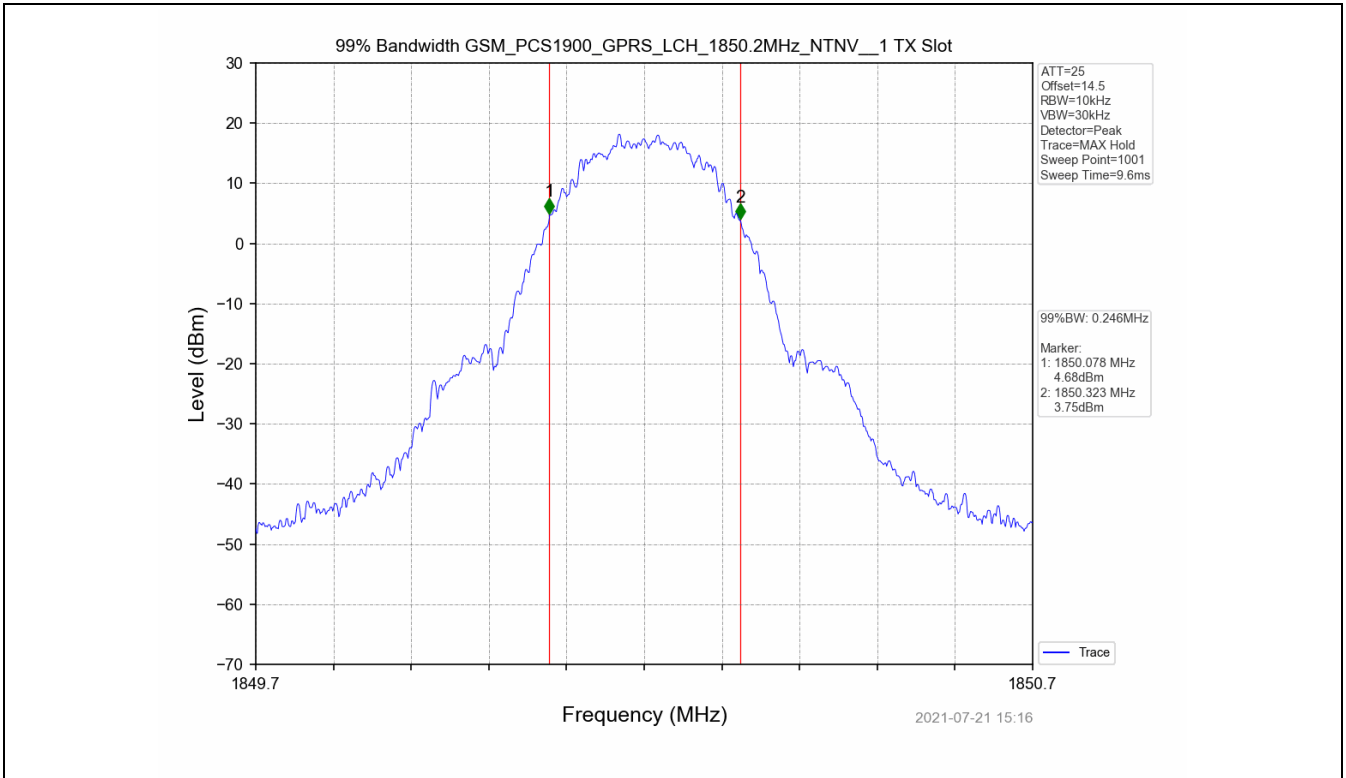


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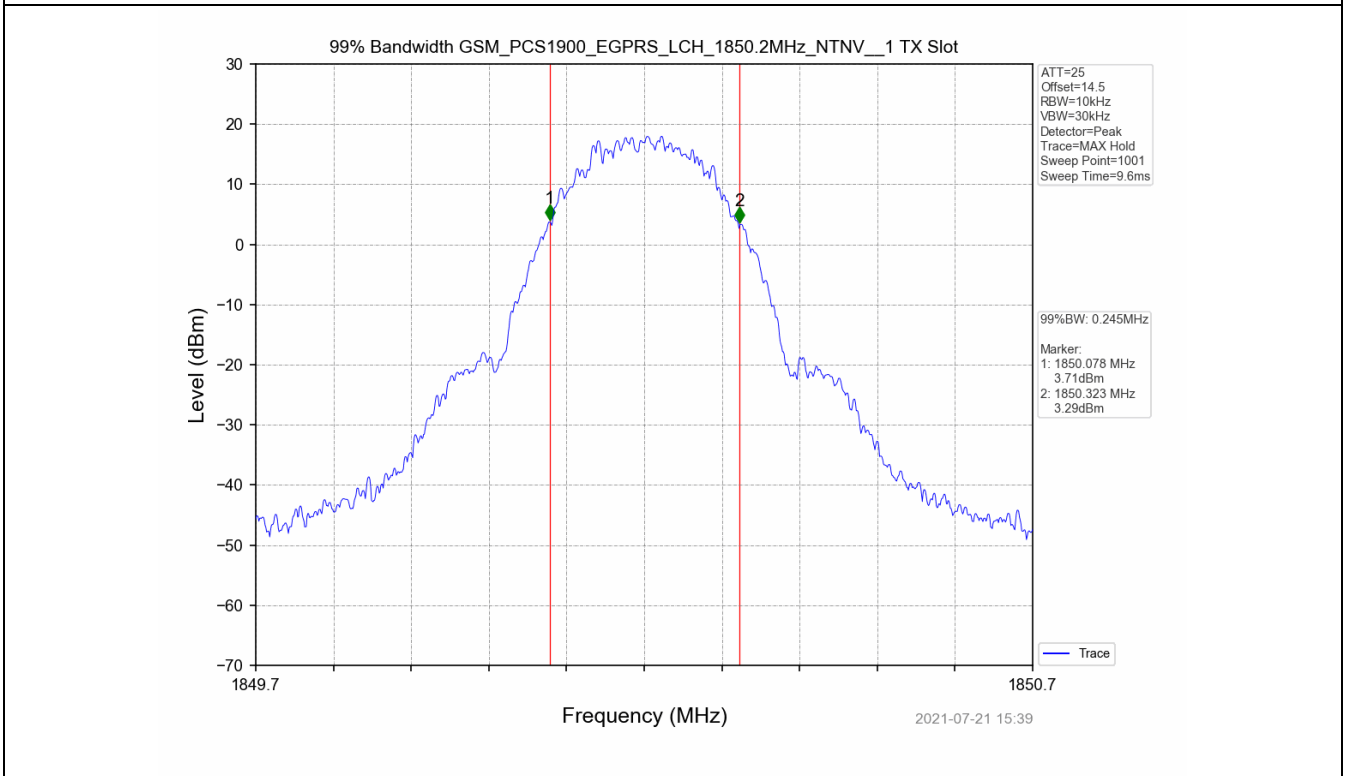
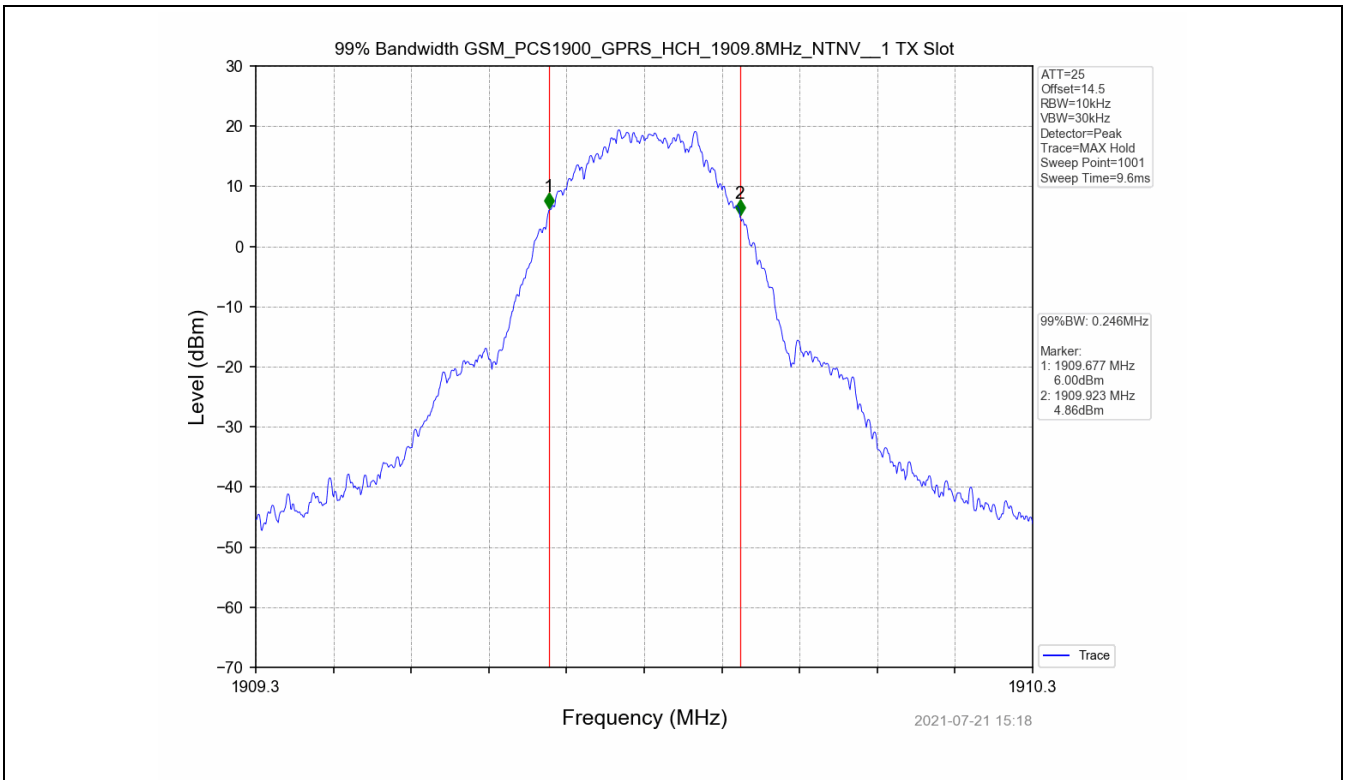


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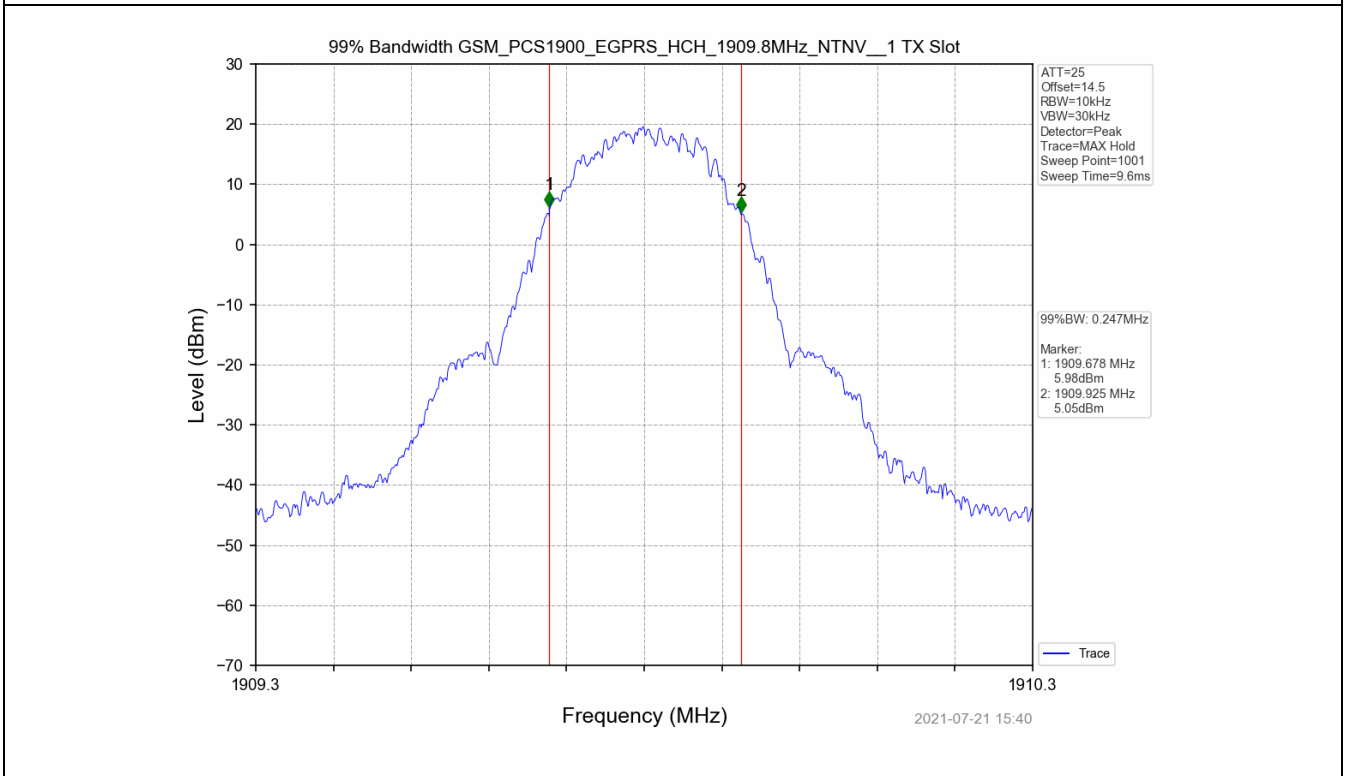
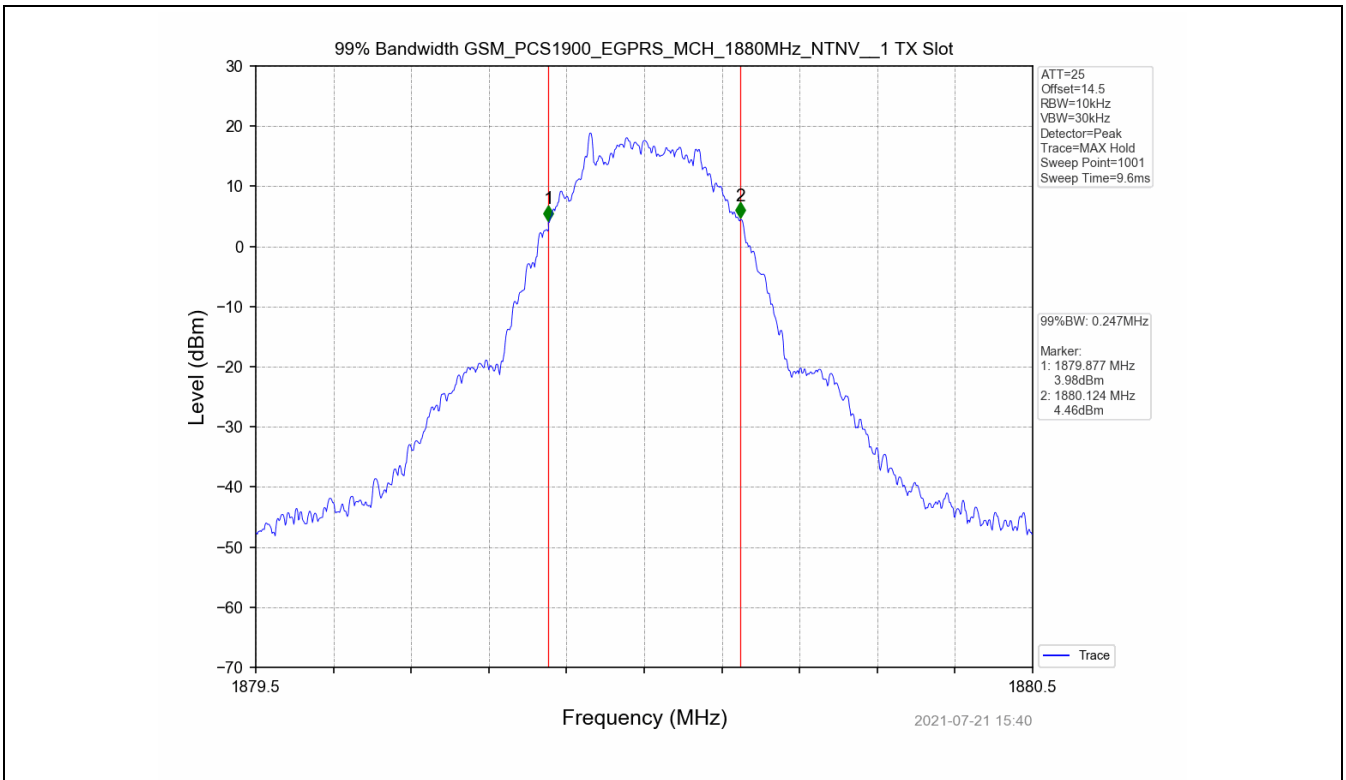


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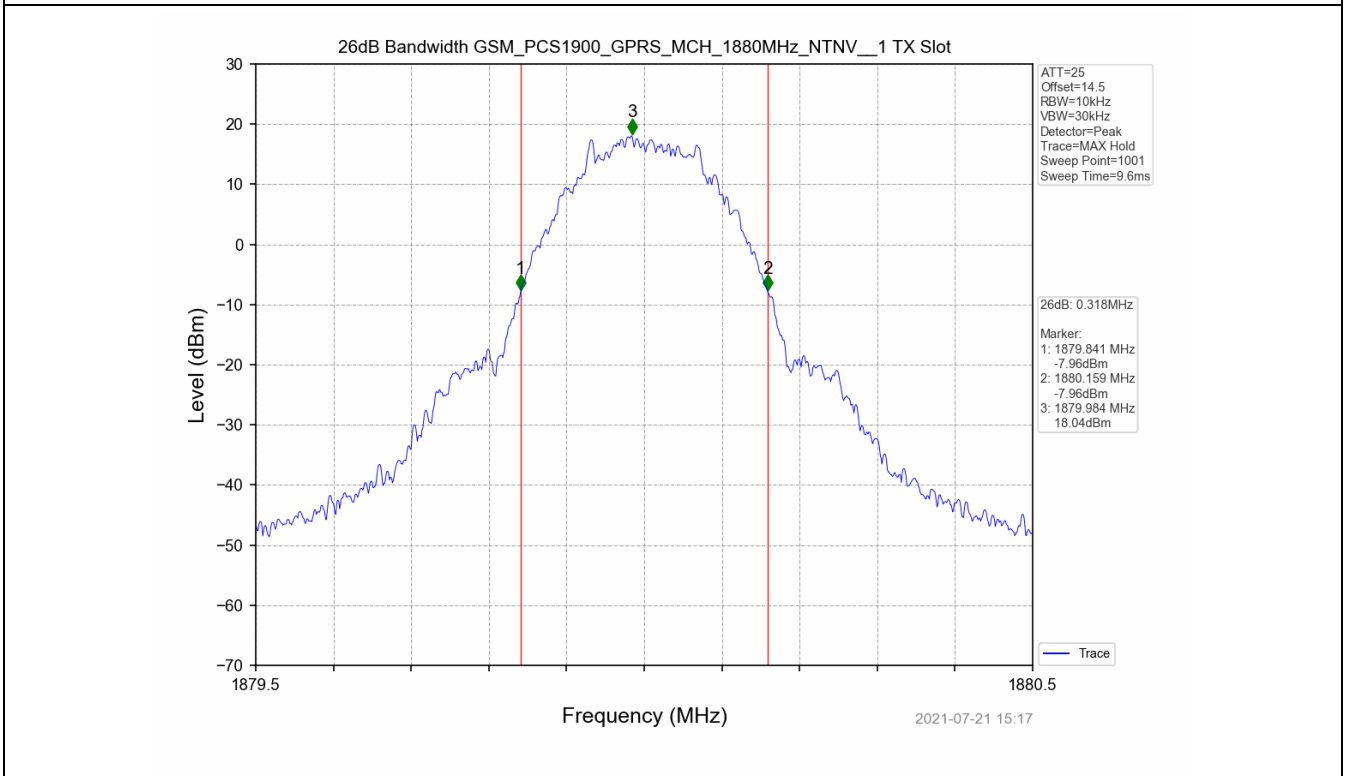
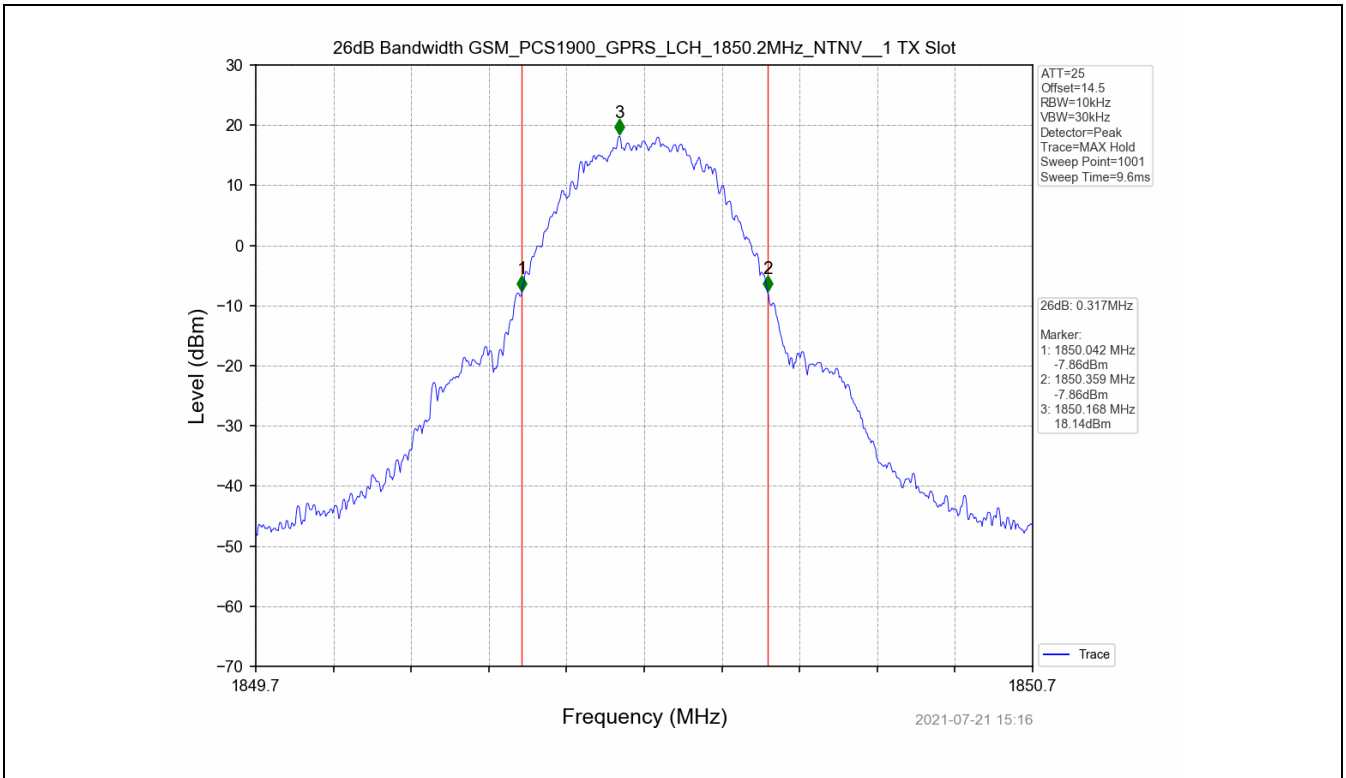


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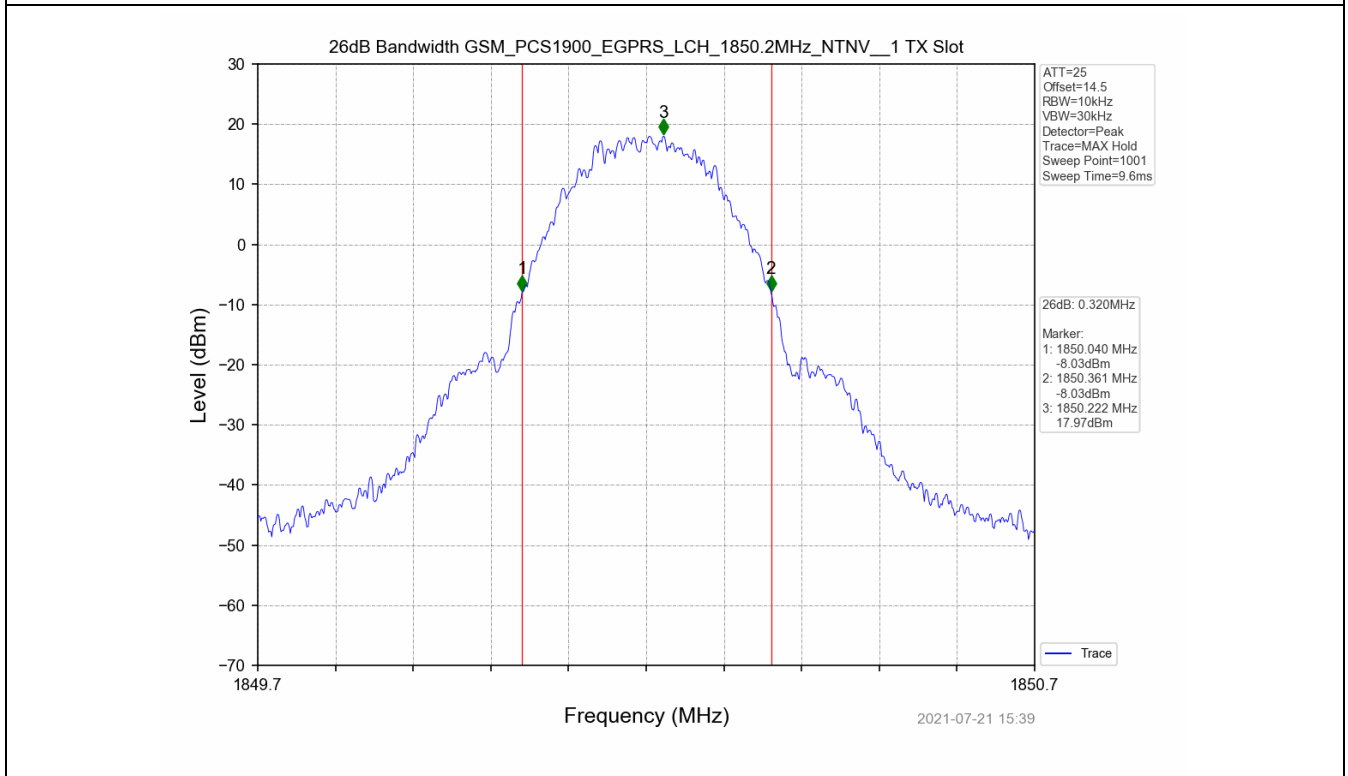
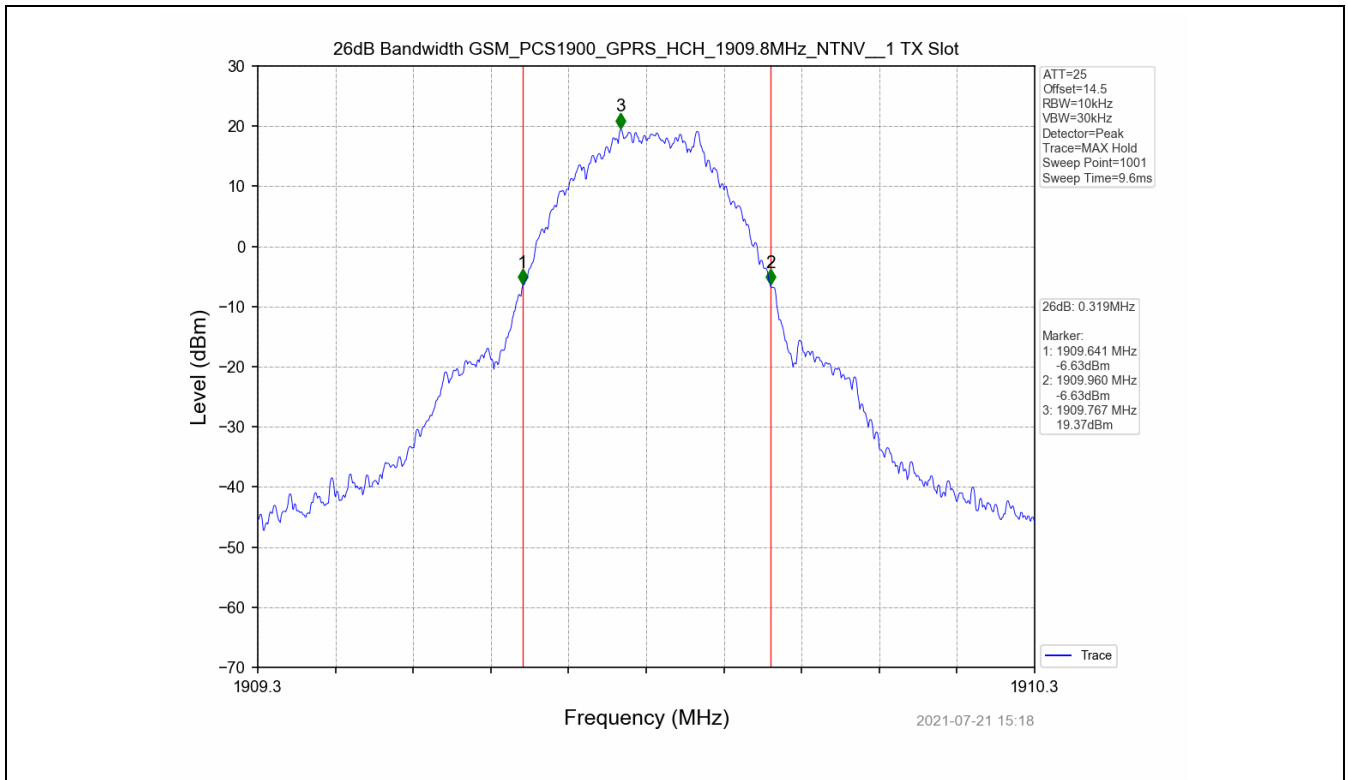


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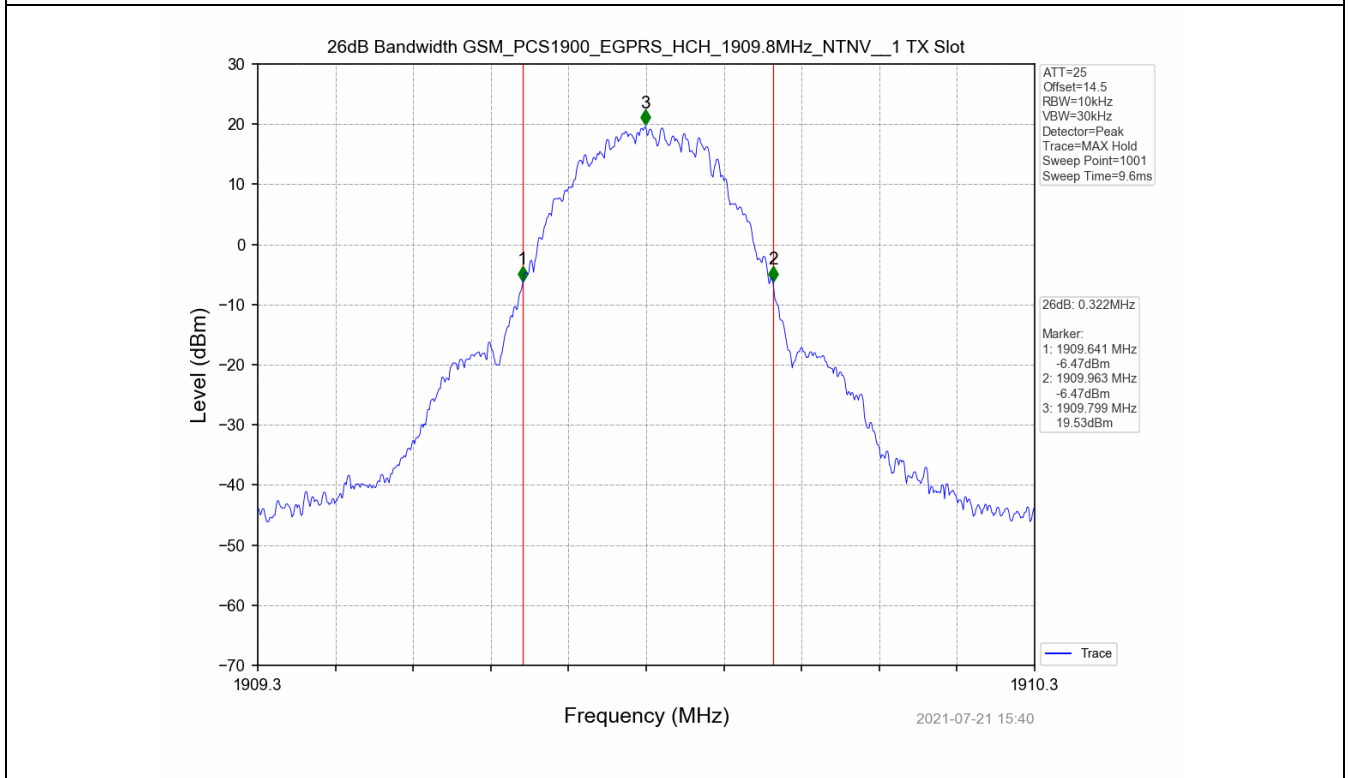
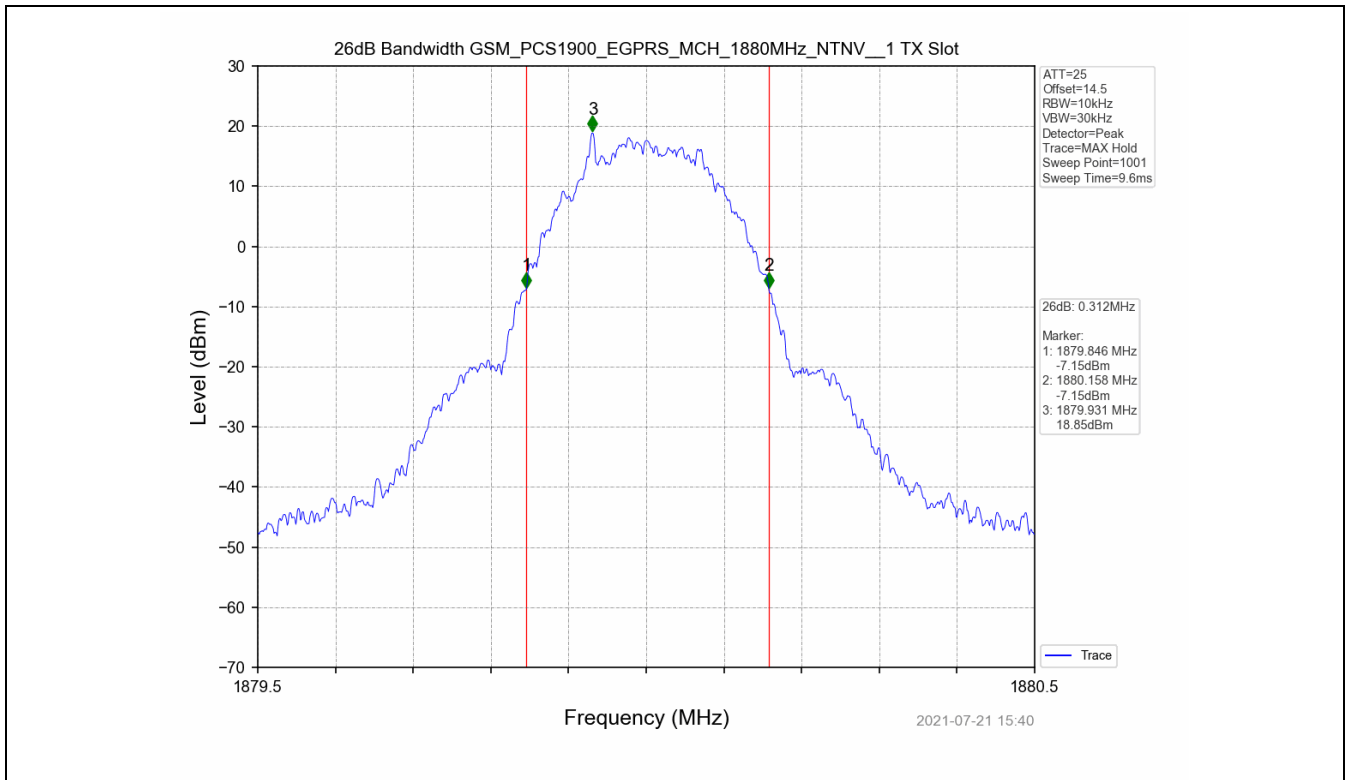


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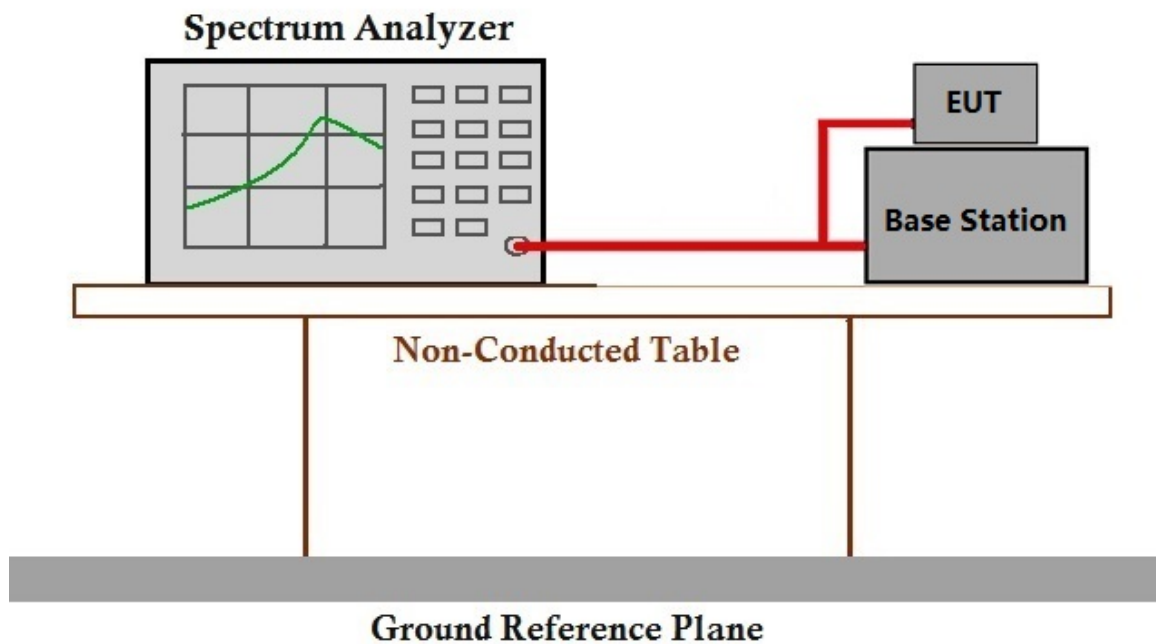
**6.4 Band Edge Compliance**

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: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
 Test mode: f:TX mode\_Keep the EUT in transmitting mode

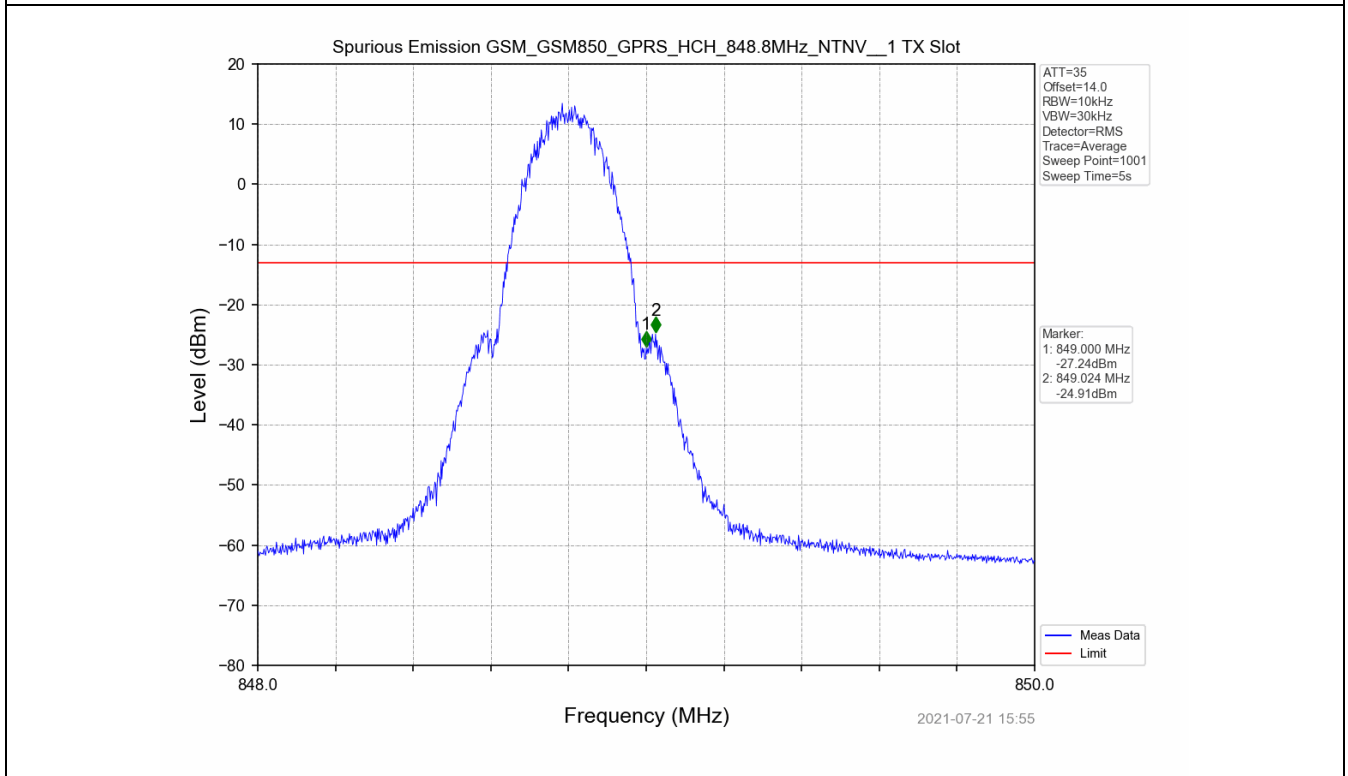
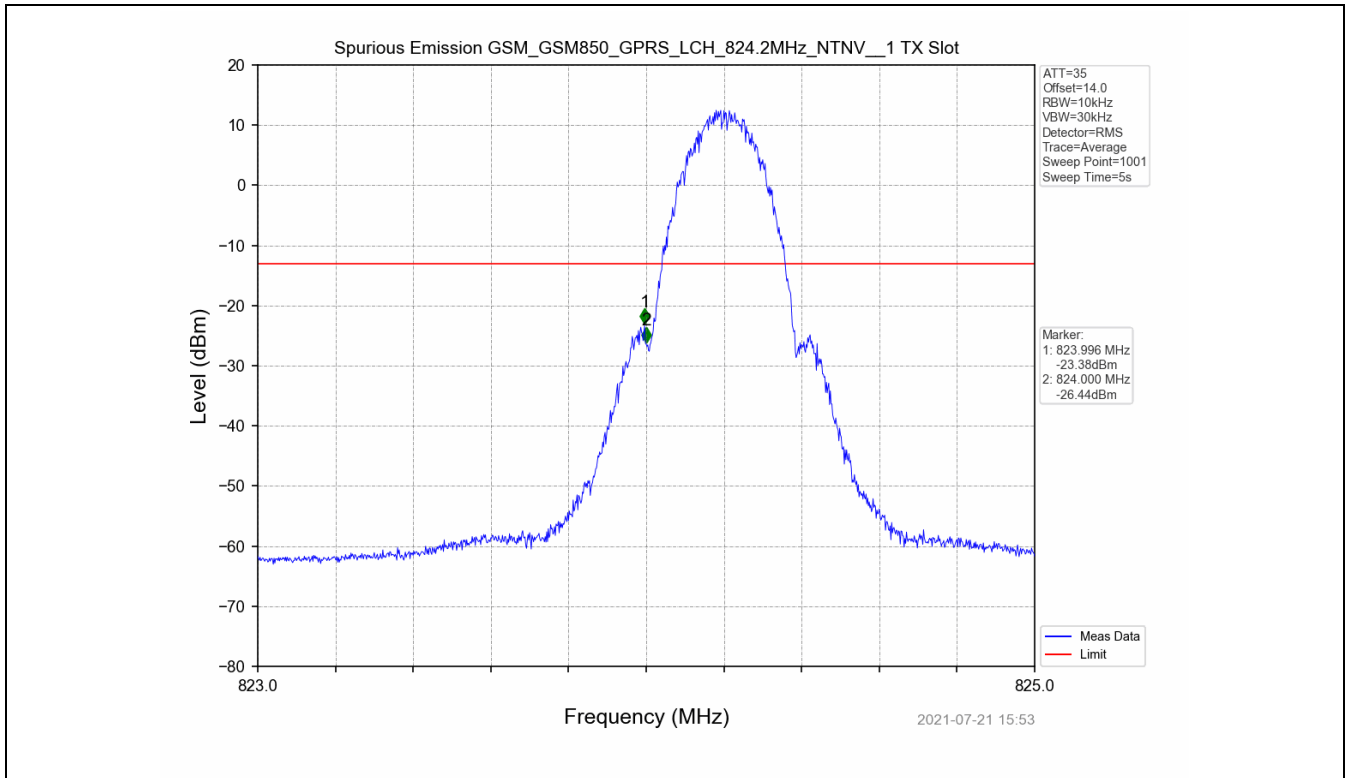
**6.4.2 Test Setup Diagram**



**6.4.3 Measurement Data**



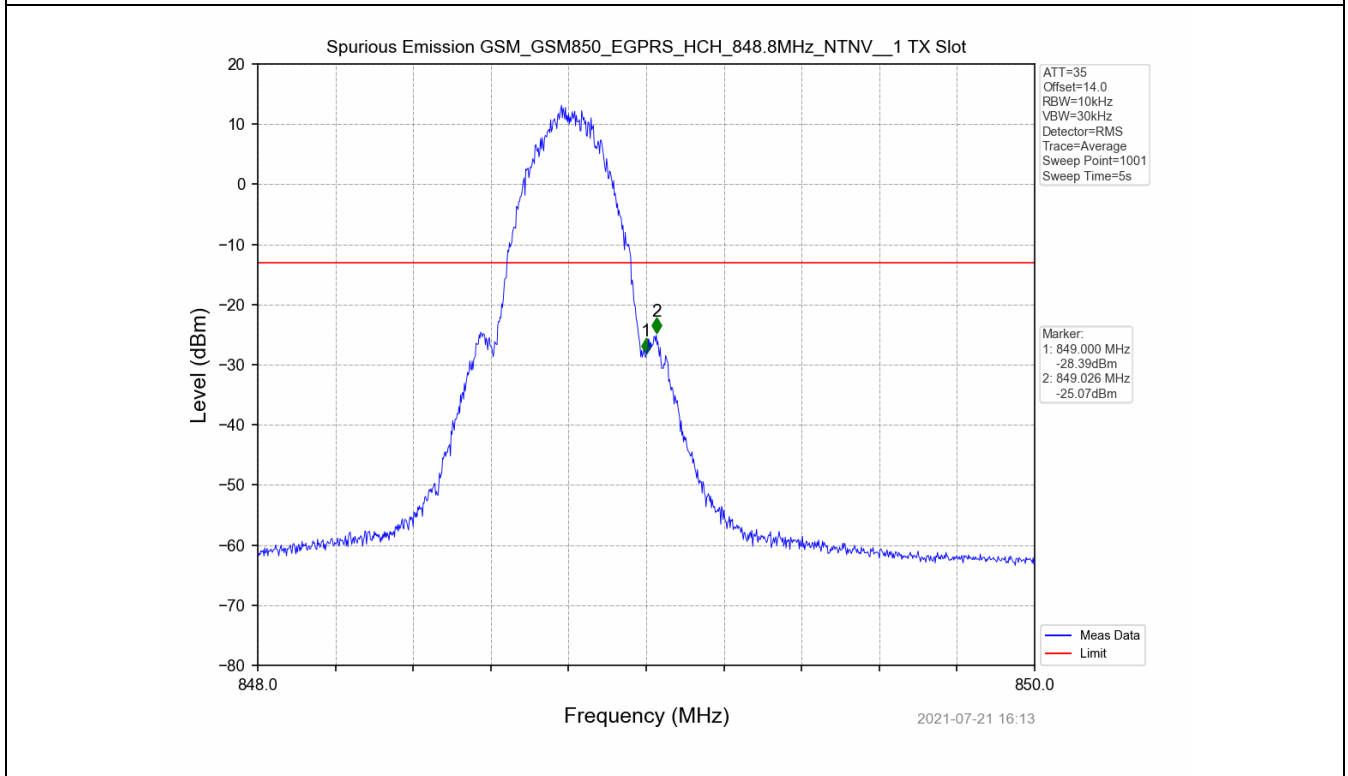
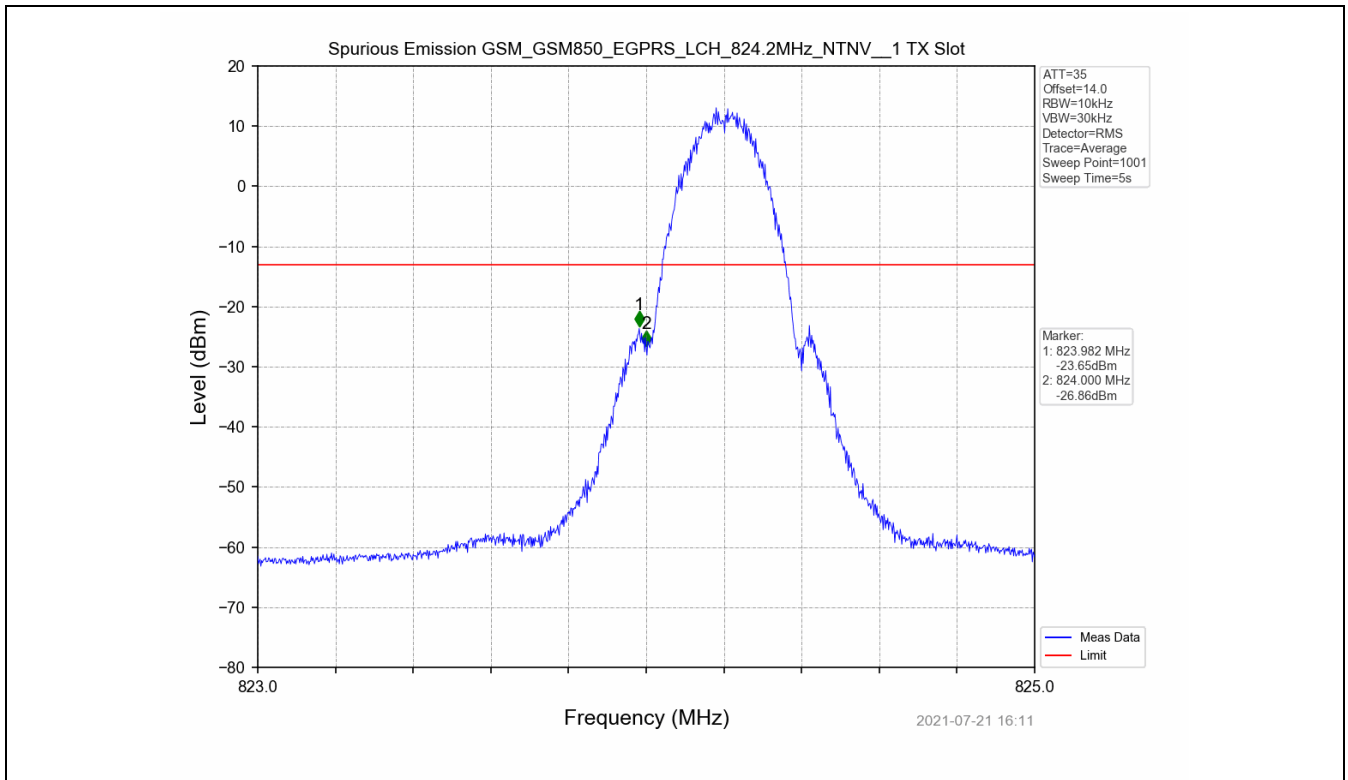
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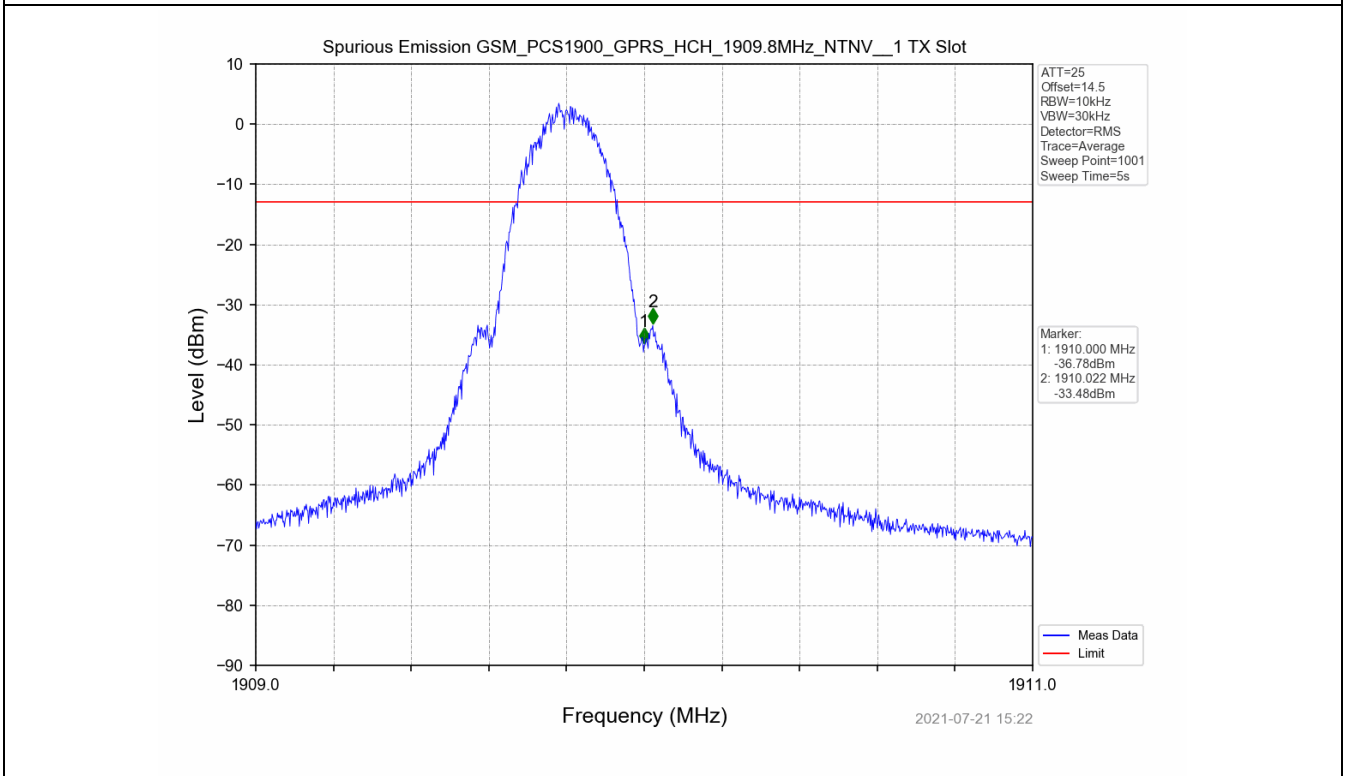
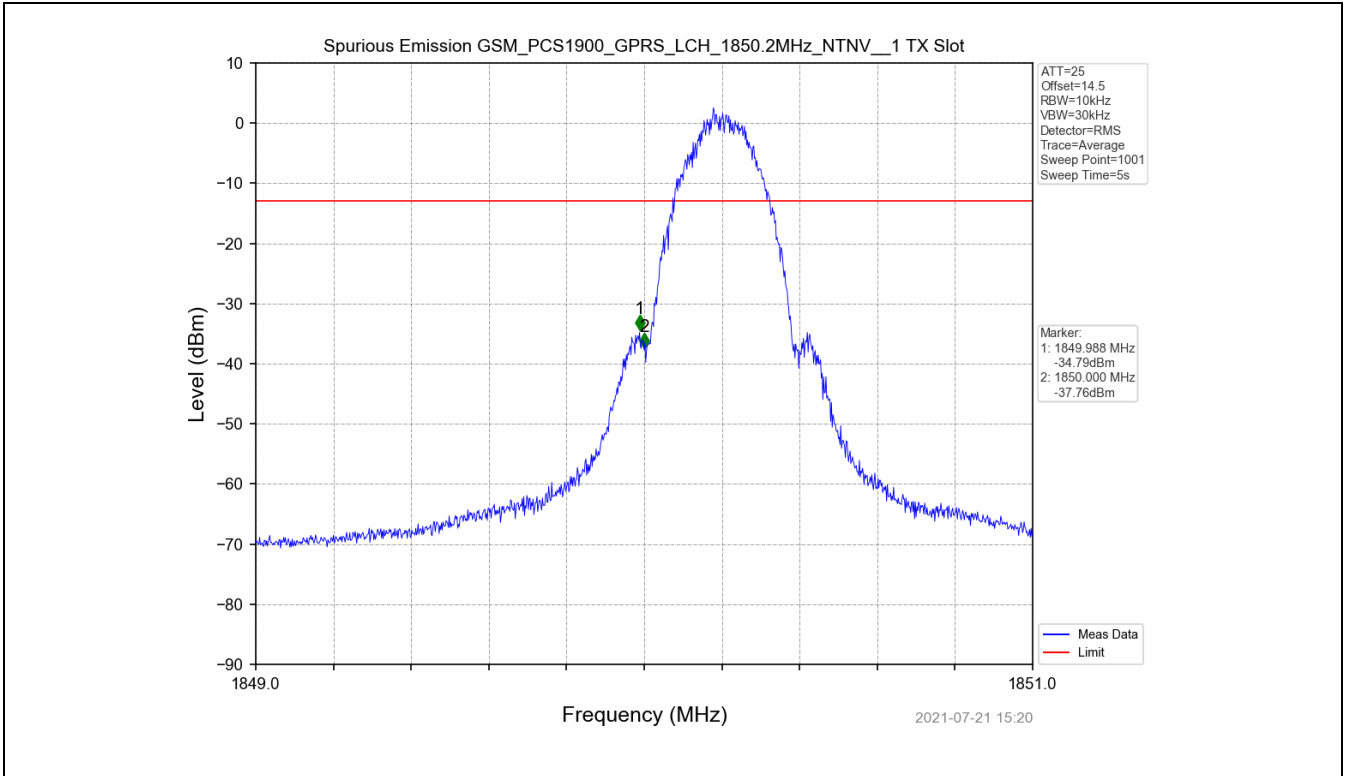
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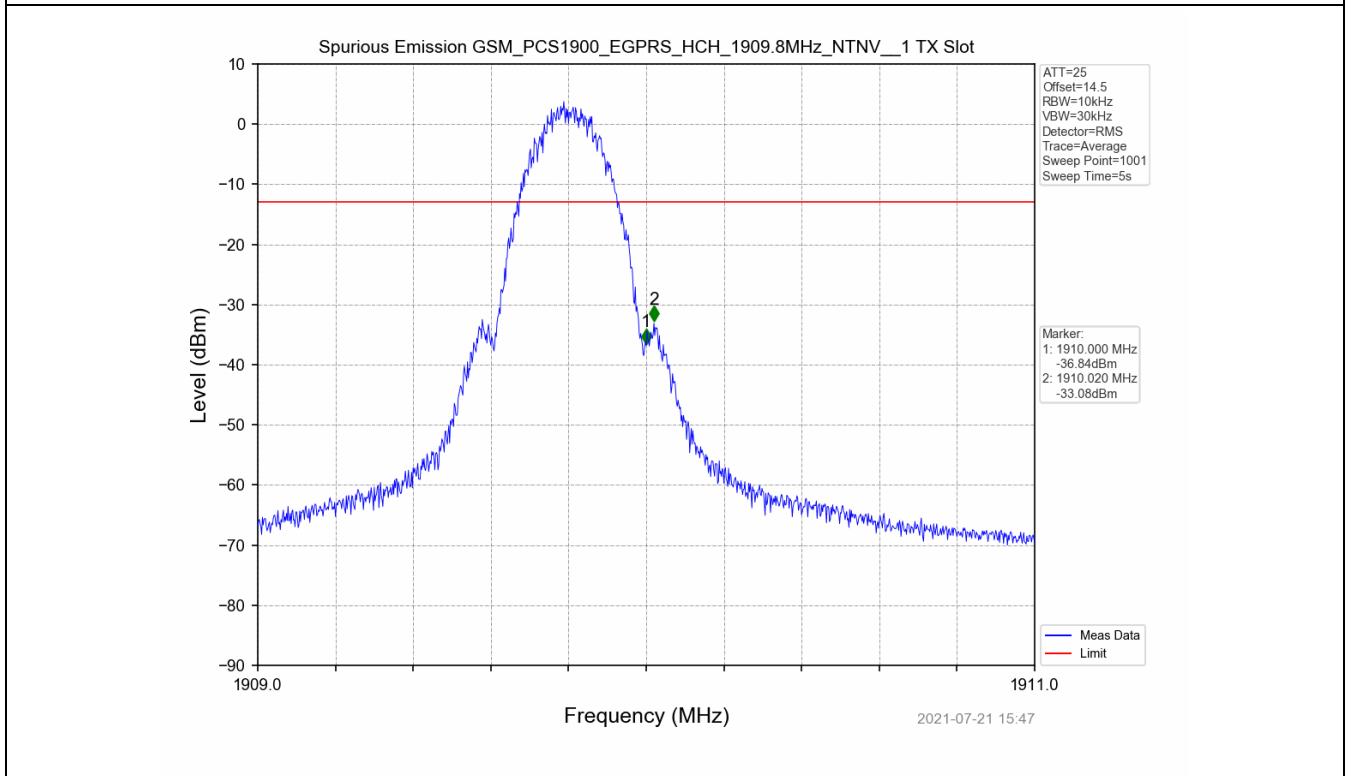
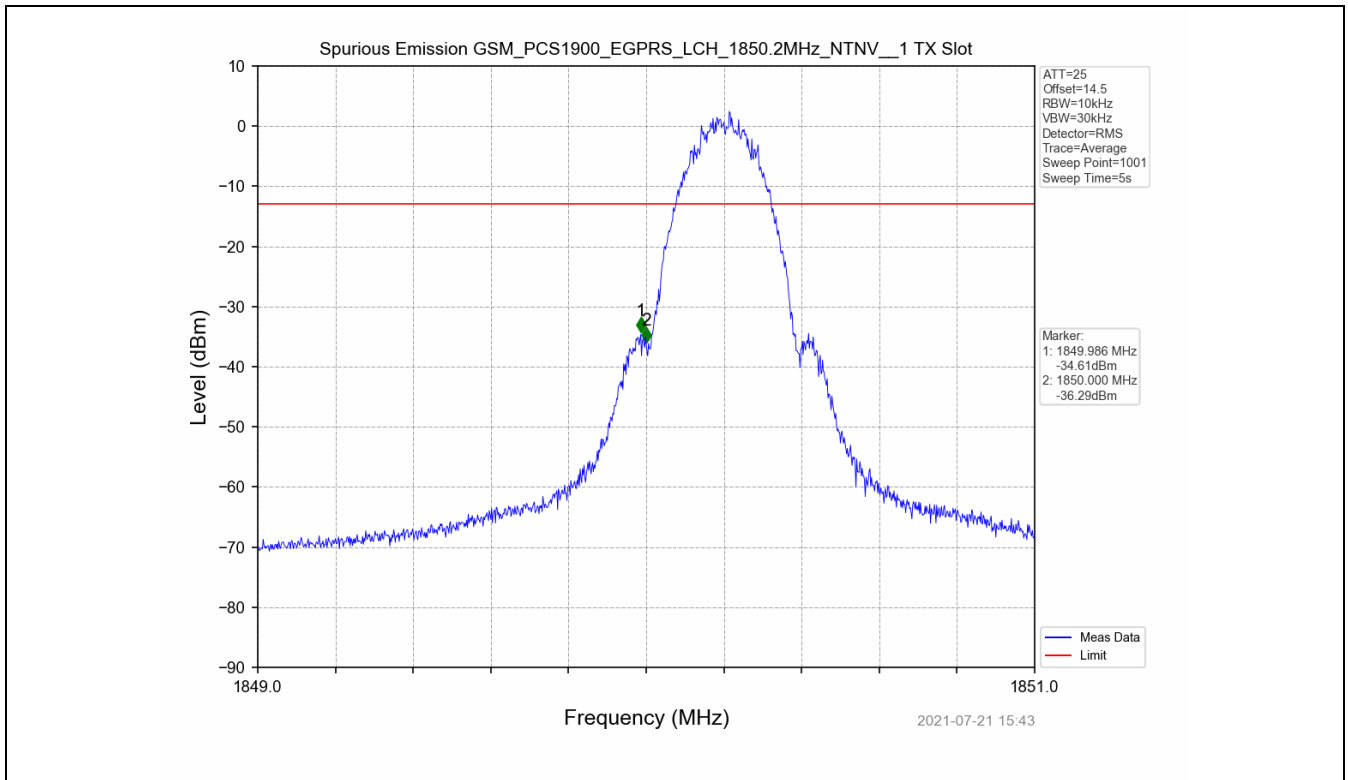


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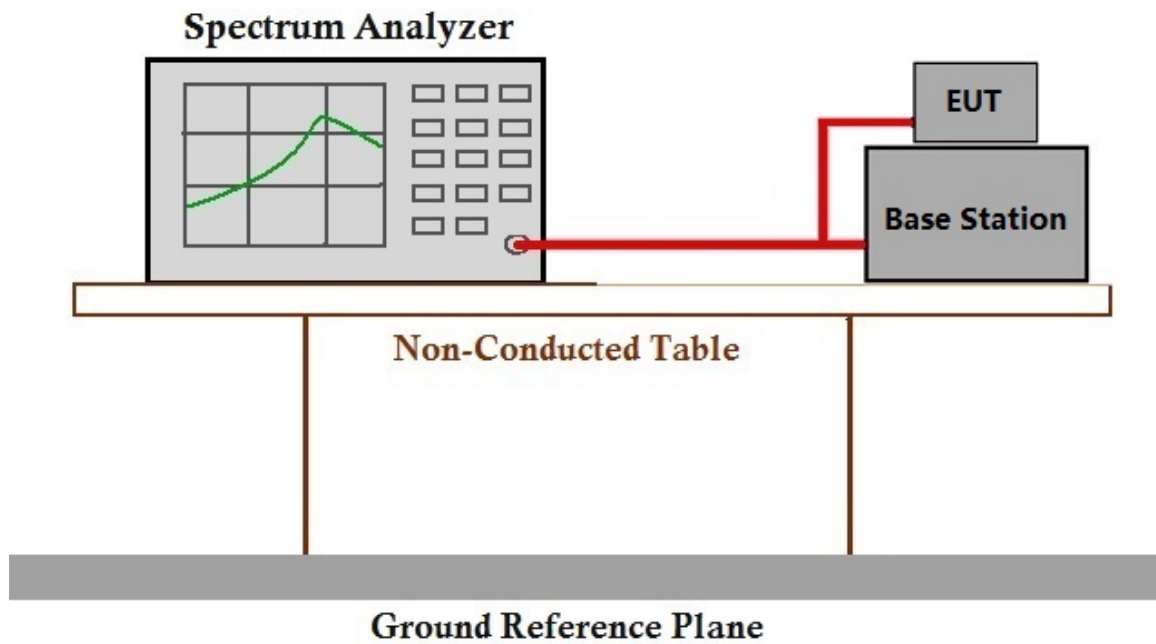
### 6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  $\leq -13\text{dBm}$

#### 6.5.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
 Test mode: f:TX mode\_Keep the EUT in transmitting mode

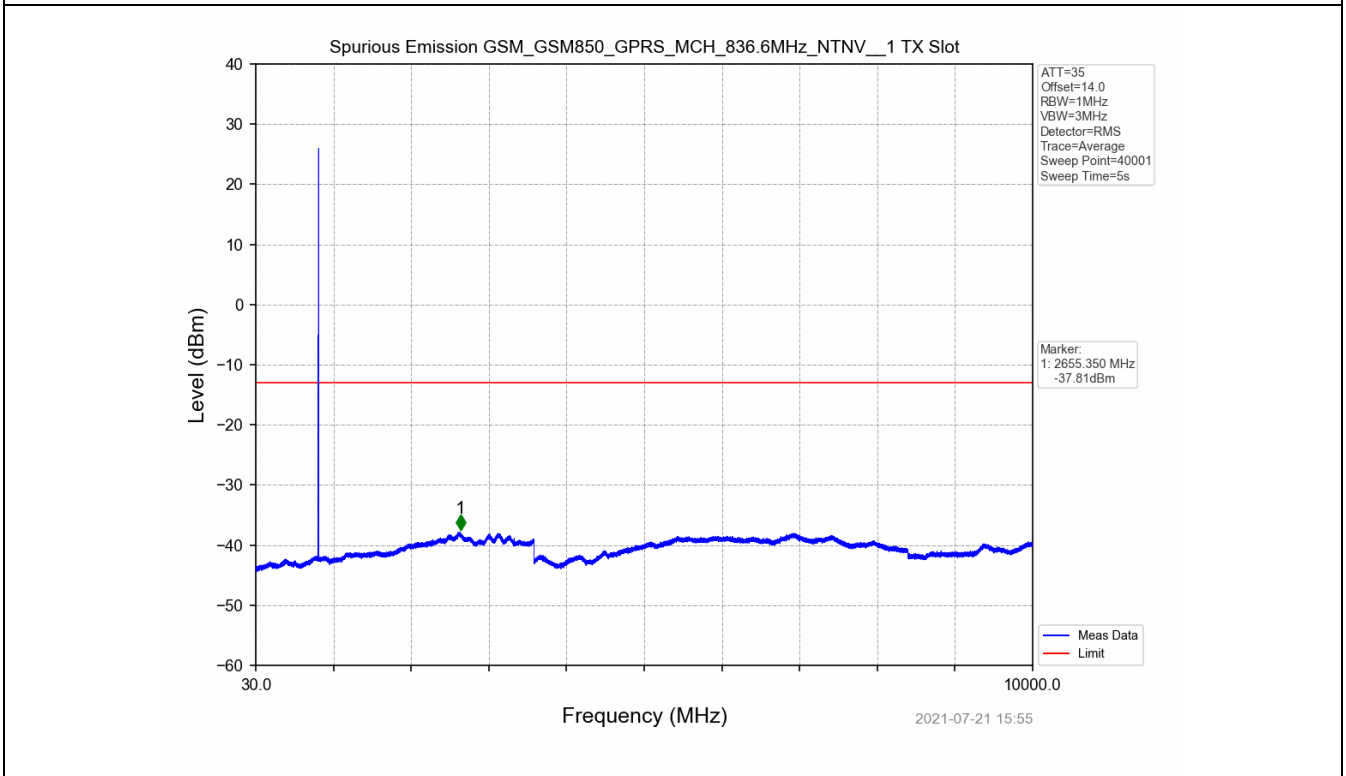
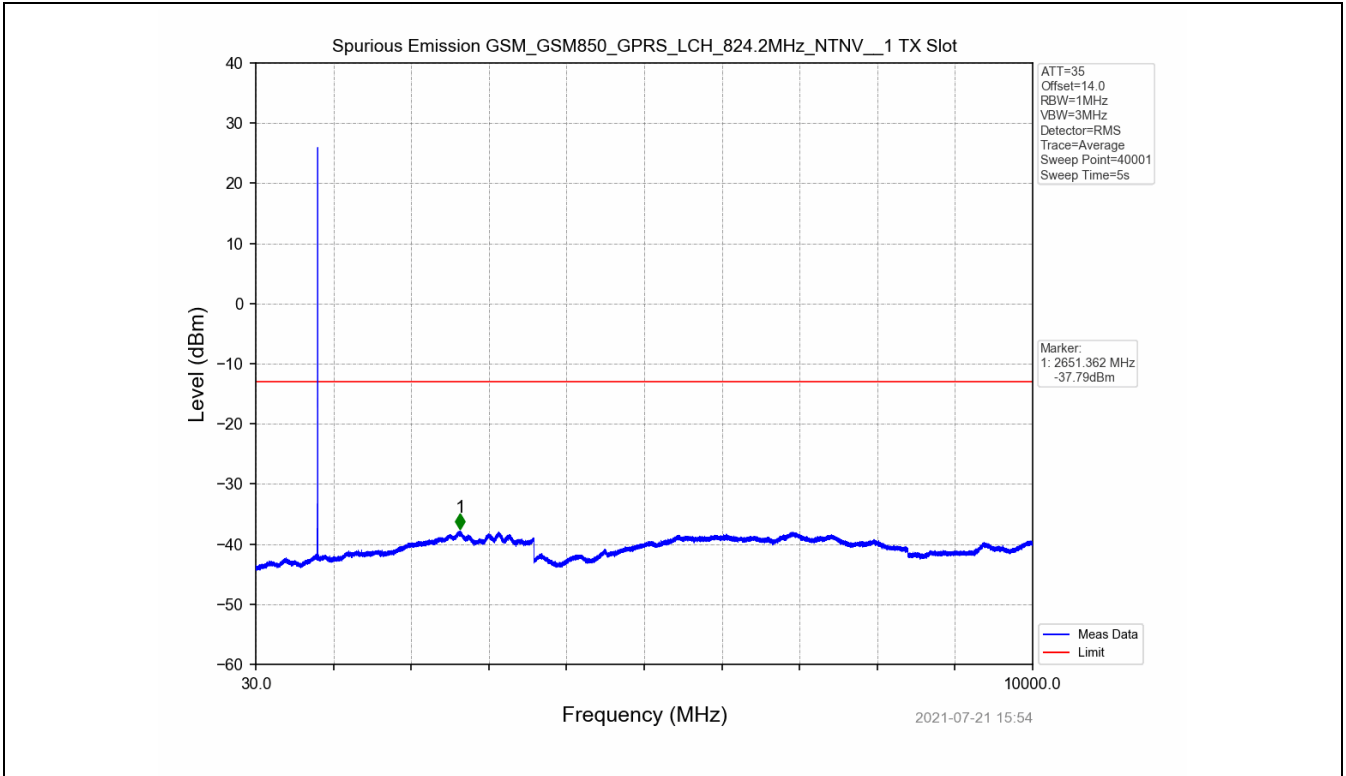
#### 6.5.2 Test Setup Diagram



#### 6.5.3 Measurement Data



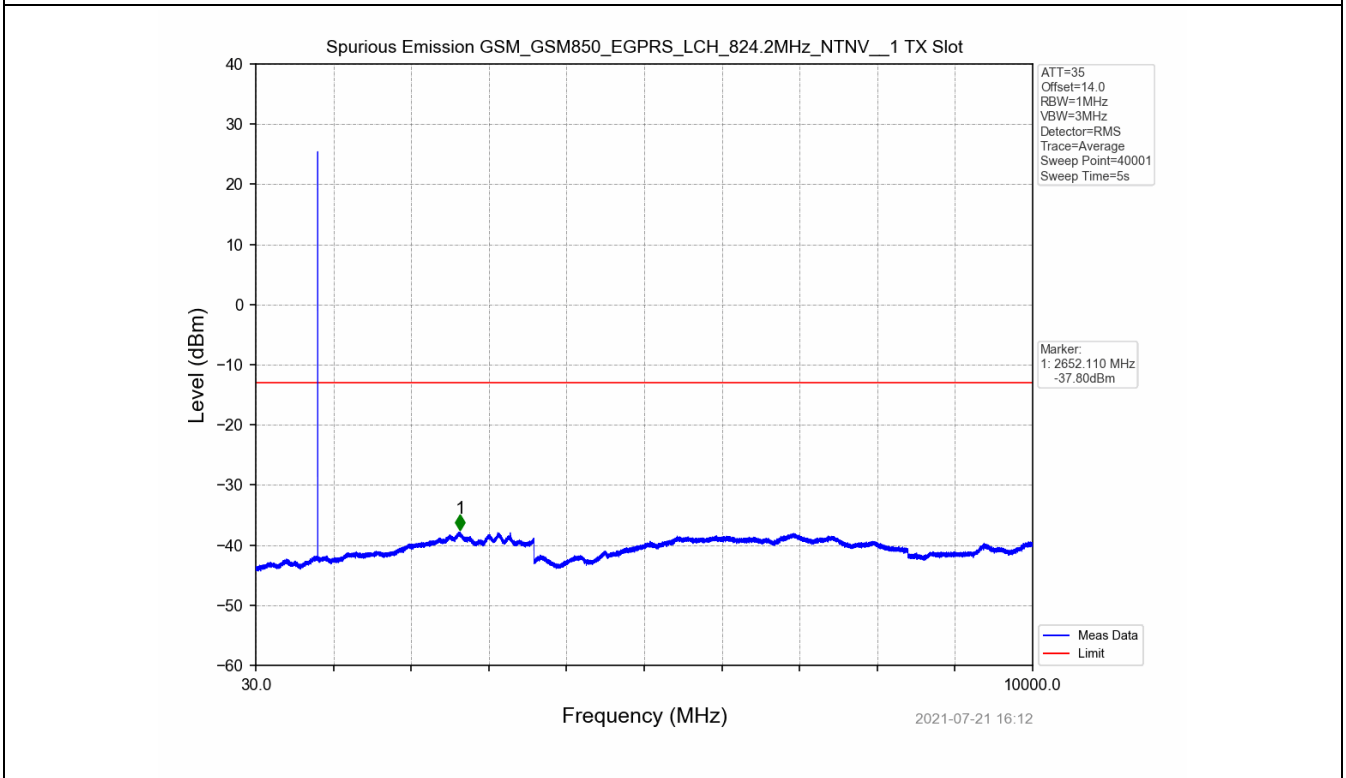
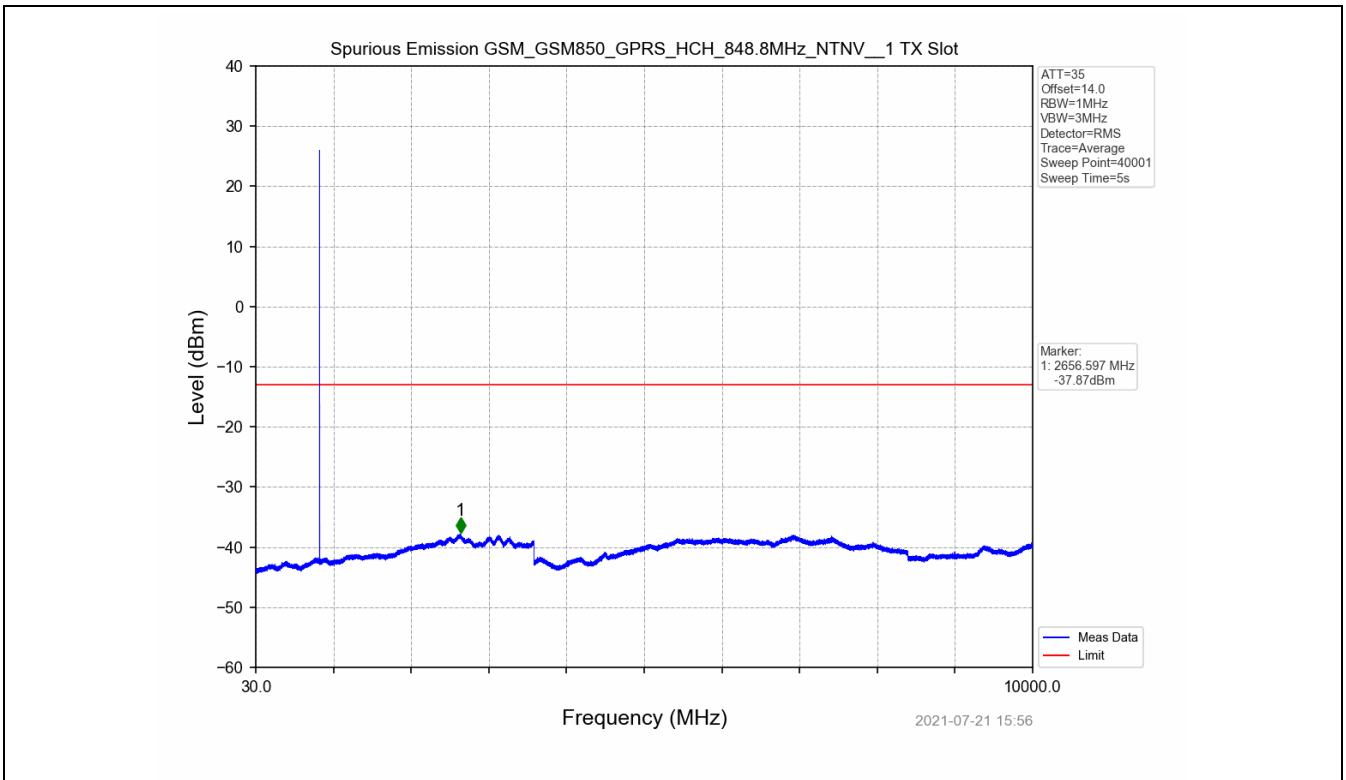
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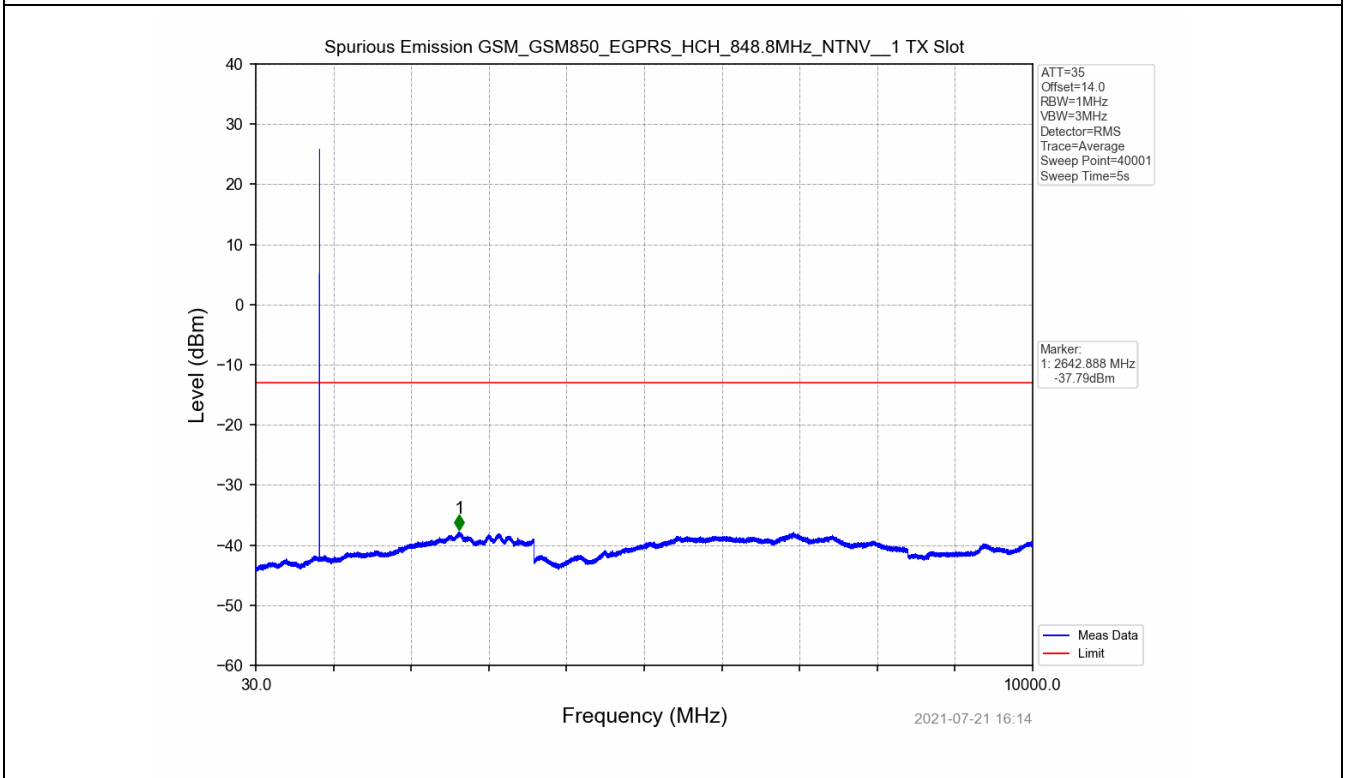
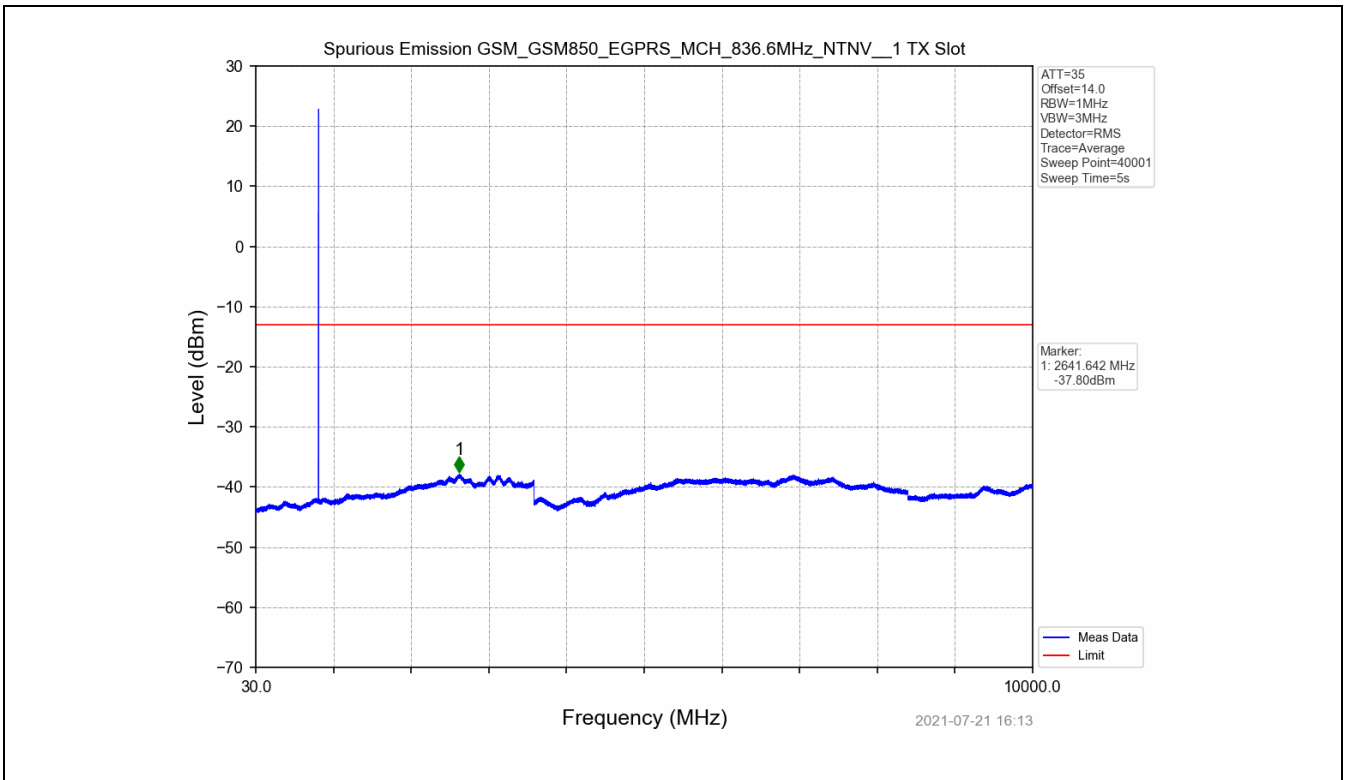
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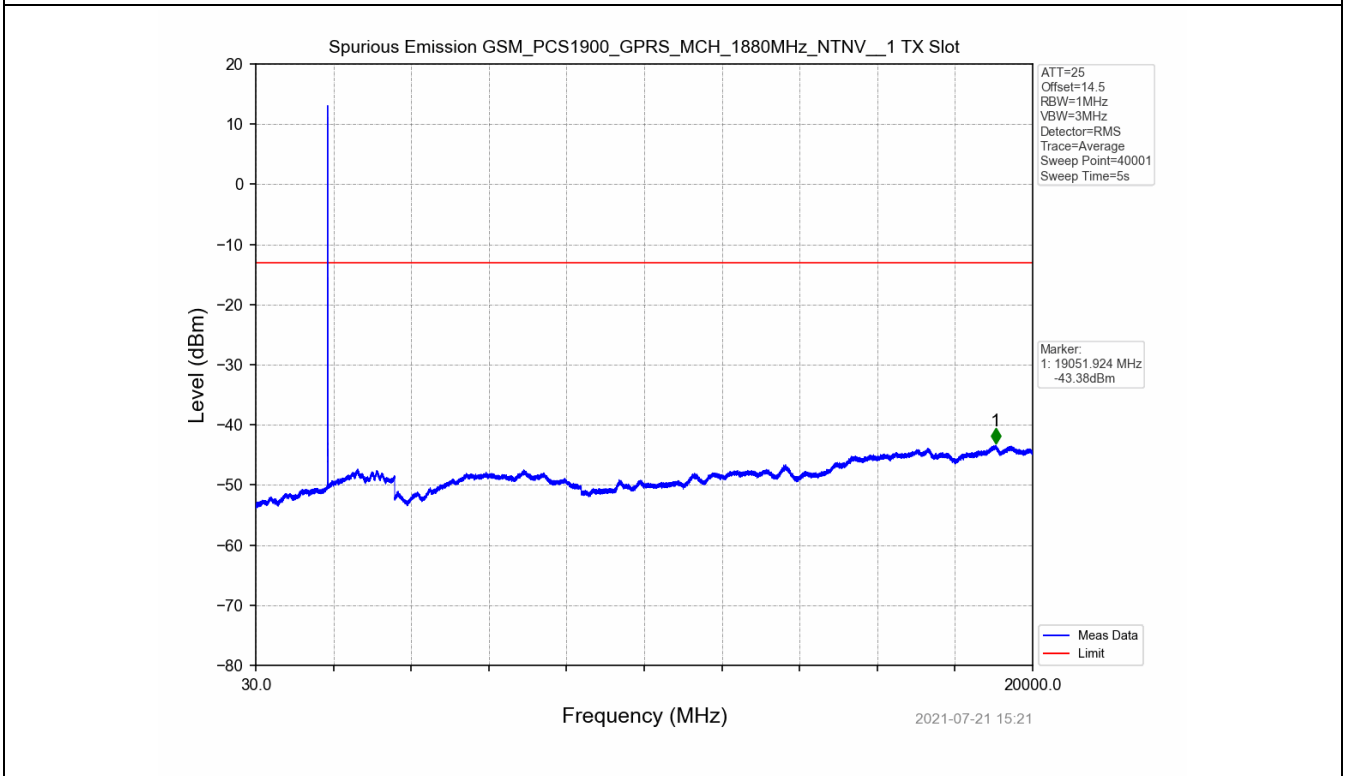
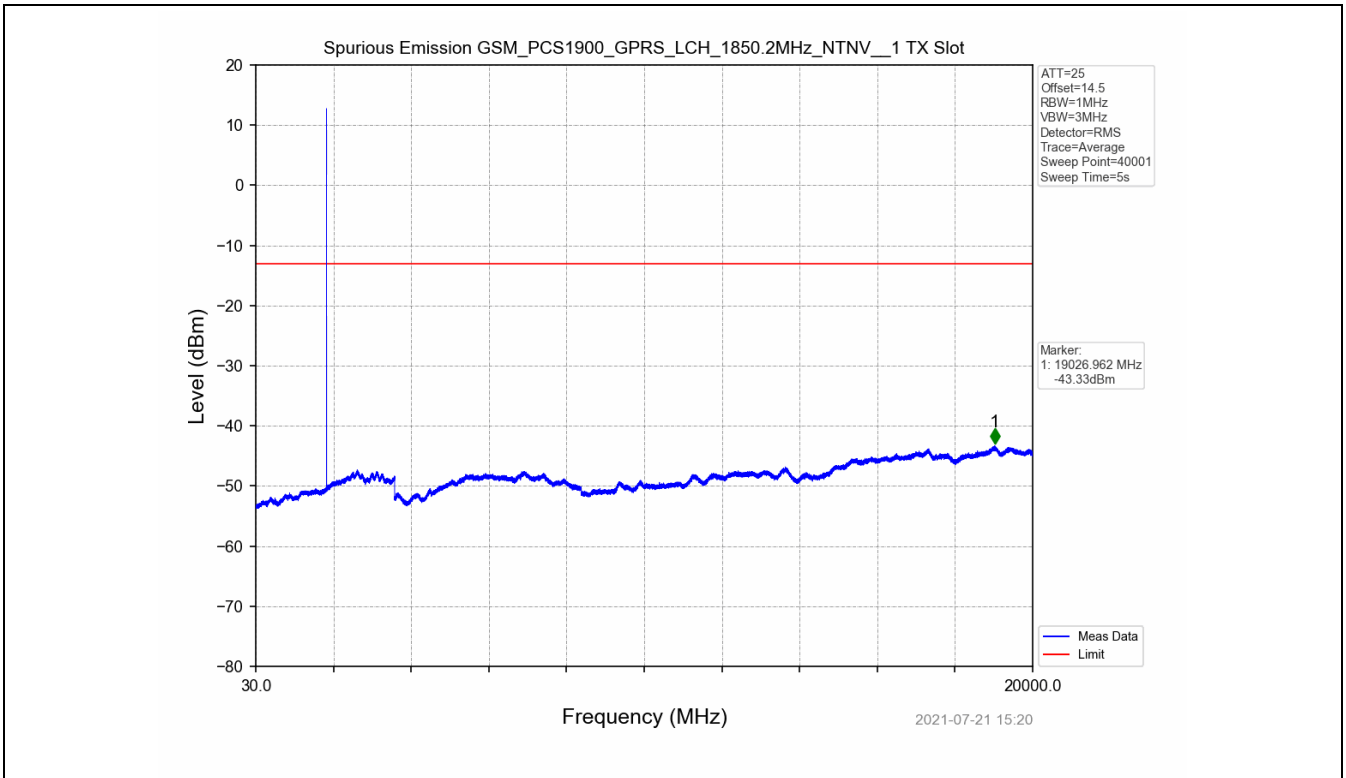
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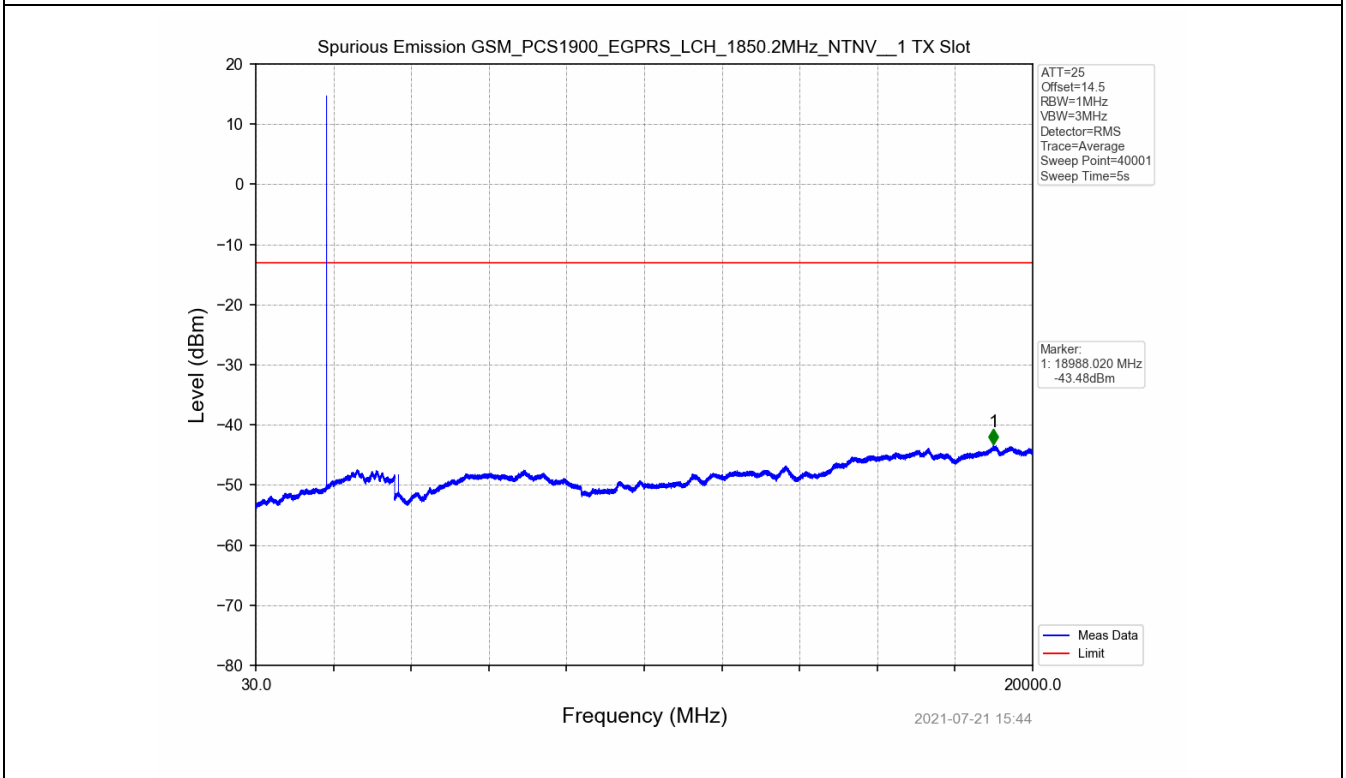
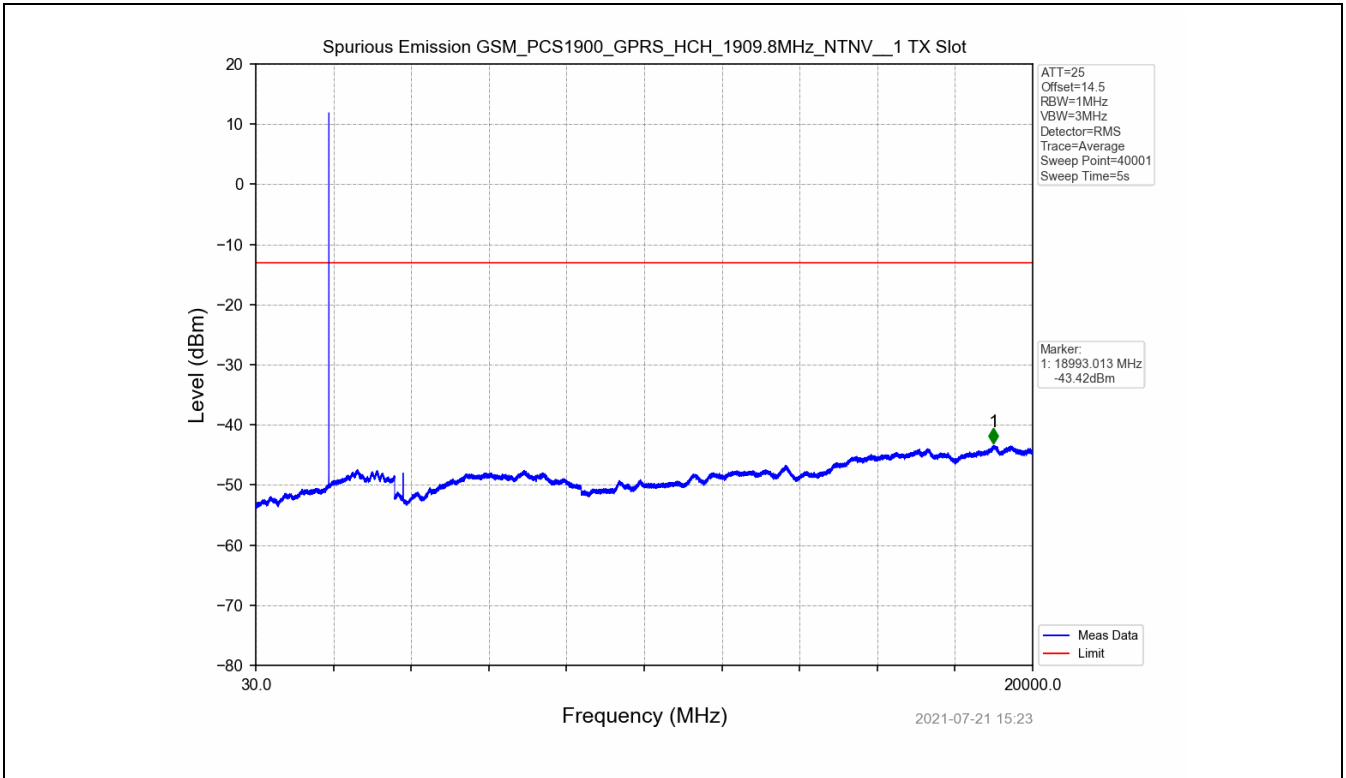


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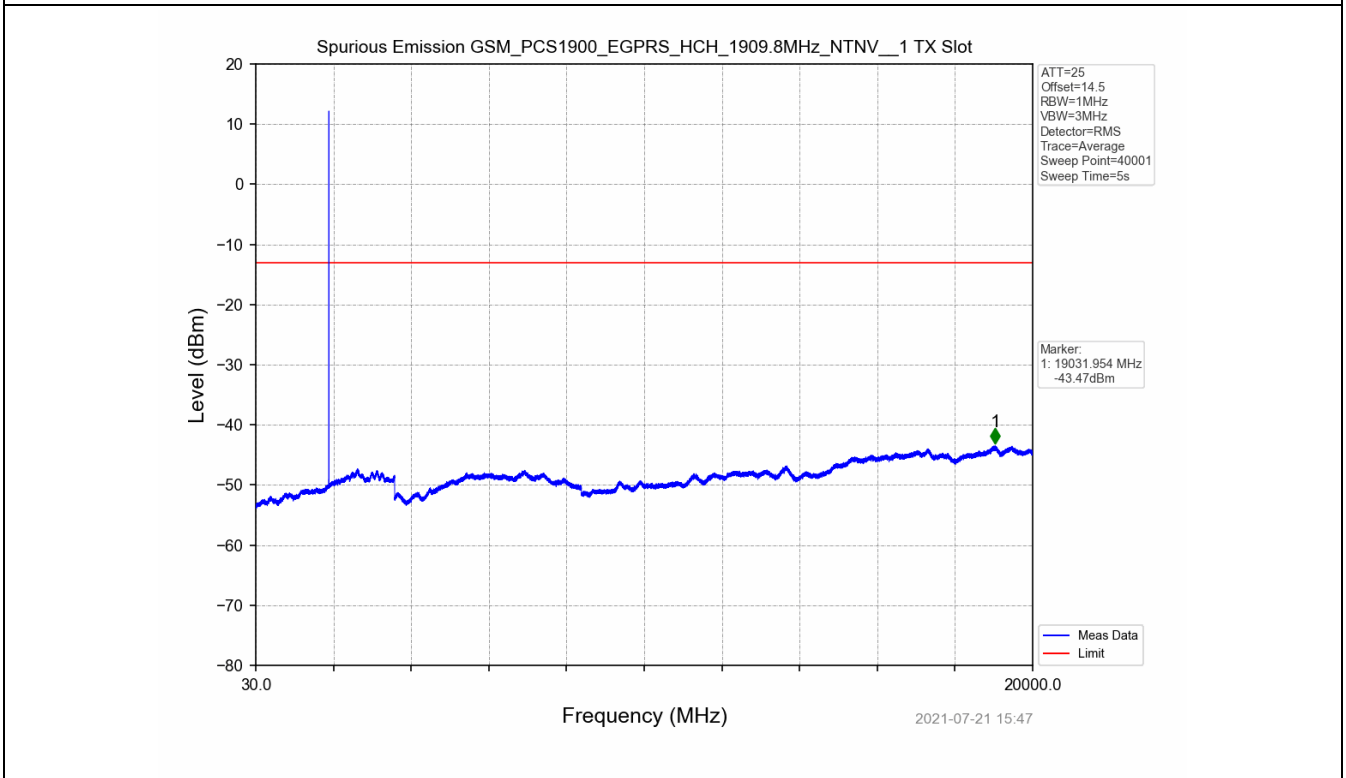
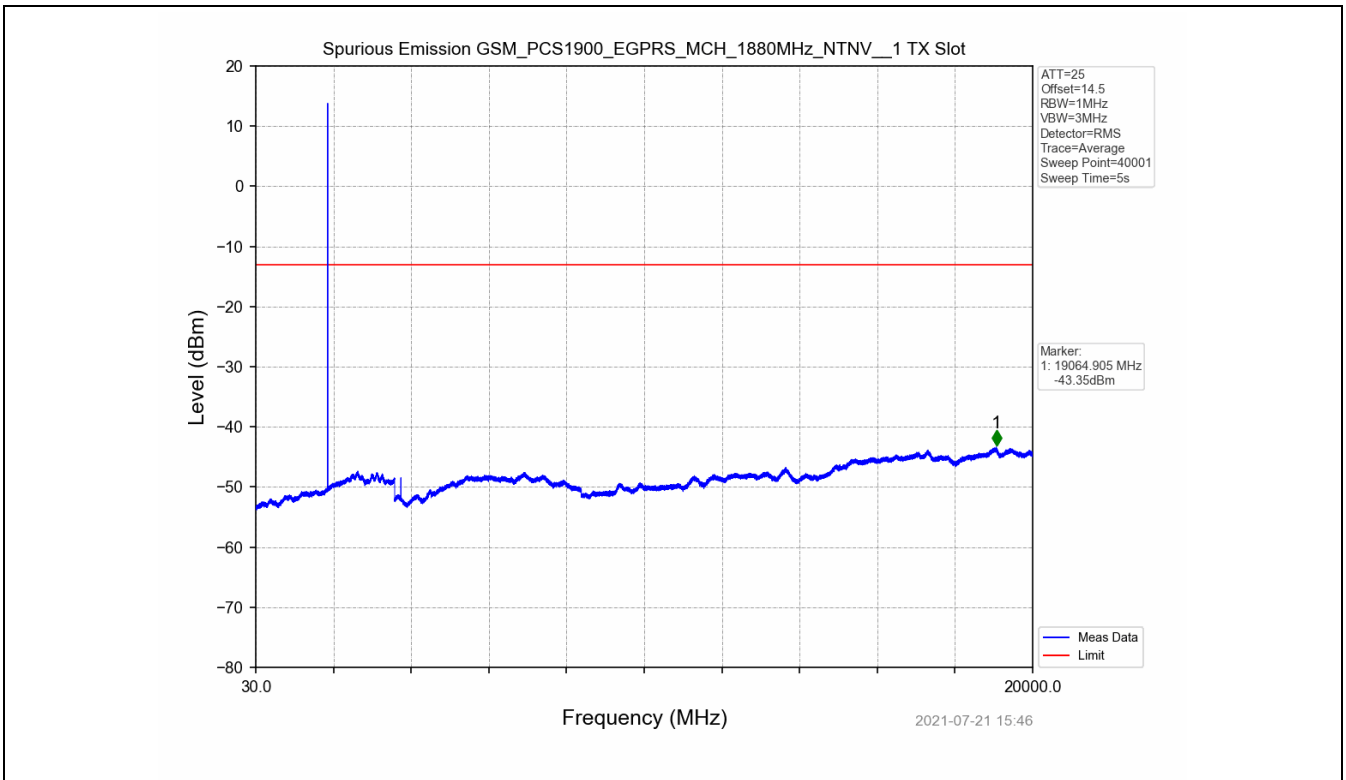


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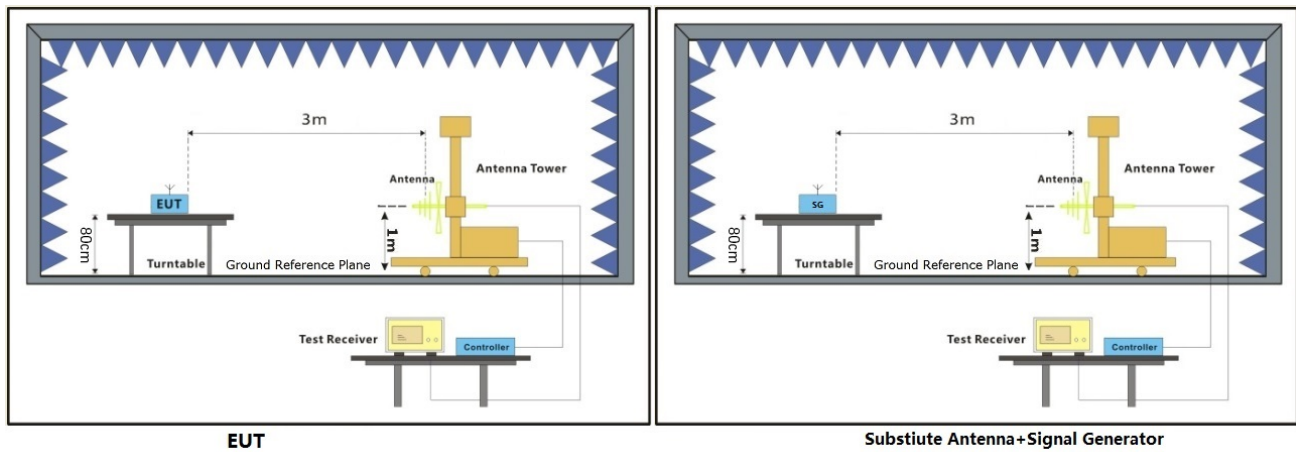
## 6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238,  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  $\leq -13\text{dBm}$

### 6.6.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
 Test mode: f:TX mode\_Keep the EUT in transmitting mode

### 6.6.2 Test Setup Diagram



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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 then 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)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1652.8	-54.18	-13	-41.18	-59.66	0.52	6	Horizontal	Pass
2479.2	-49.7	-13	-36.7	-54.97	0.53	5.8	Horizontal	Pass
3305.6	-46.2	-13	-33.2	-51.75	0.65	6.2	Horizontal	Pass
1652.8	-54.21	-13	-41.21	-59.69	0.52	6	Vertical	Pass
2479.2	-49.02	-13	-36.02	-54.29	0.53	5.8	Vertical	Pass
3305.6	-45.37	-13	-32.37	-50.92	0.65	6.2	Vertical	Pass

GPRS850-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1672.8	-52.43	-13	-39.43	-57.91	0.52	6	Horizontal	Pass
2509.2	-49.39	-13	-36.39	-54.1	0.59	5.3	Horizontal	Pass
3345.6	-46.4	-13	-33.4	-51.95	0.65	6.2	Horizontal	Pass
1672.8	-53.22	-13	-40.22	-58.7	0.52	6	Vertical	Pass
2509.2	-49.29	-13	-36.29	-54	0.59	5.3	Vertical	Pass
3345.6	-43.37	-13	-30.37	-48.92	0.65	6.2	Vertical	Pass

GPRS850-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1693.2	-50.52	-13	-37.52	-56	0.52	6	Horizontal	Pass
2539.8	-49.19	-13	-36.19	-53.9	0.59	5.3	Horizontal	Pass
3386.4	-45.39	-13	-32.39	-50.94	0.65	6.2	Horizontal	Pass
1693.2	-52.28	-13	-39.28	-57.76	0.52	6	Vertical	Pass
2539.8	-47.63	-13	-34.63	-52.34	0.59	5.3	Vertical	Pass
3386.4	-44.43	-13	-31.43	-49.98	0.65	6.2	Vertical	Pass



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GPRS1900-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3704.8	-46.03	-13	-33.03	-52.92	0.71	7.6	Horizontal	Pass
5557.2	-41.07	-13	-28.07	-50.52	0.85	10.3	Horizontal	Pass
7409.6	-41.29	-13	-28.29	-53.19	1	12.9	Horizontal	Pass
3704.8	-45.84	-13	-32.84	-52.73	0.71	7.6	Vertical	Pass
5557.2	-41.45	-13	-28.45	-50.9	0.85	10.3	Vertical	Pass
7409.6	-37.77	-13	-24.77	-49.67	1	12.9	Vertical	Pass

GPRS1900-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-43.73	-13	-30.73	-50.62	0.71	7.6	Horizontal	Pass
5640	-44.21	-13	-31.21	-53.66	0.85	10.3	Horizontal	Pass
7520	-39.83	-13	-26.83	-52.04	0.99	13.2	Horizontal	Pass
3760	-43.68	-13	-30.68	-50.57	0.71	7.6	Vertical	Pass
5640	-41.01	-13	-28.01	-50.46	0.85	10.3	Vertical	Pass
7520	-39.17	-13	-26.17	-51.38	0.99	13.2	Vertical	Pass

GPRS1900-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3815.2	-45.06	-13	-32.06	-51.95	0.71	7.6	Horizontal	Pass
5722.8	-40.02	-13	-27.02	-49.47	0.85	10.3	Horizontal	Pass
7630.4	-37.71	-13	-24.71	-49.92	0.99	13.2	Horizontal	Pass
3815.2	-46.58	-13	-33.58	-53.47	0.71	7.6	Vertical	Pass
5722.8	-44.82	-13	-31.82	-54.27	0.85	10.3	Vertical	Pass
7630.4	-43.87	-13	-30.87	-56.08	0.99	13.2	Vertical	Pass

Note: EIRP= S.G. Power- Cable loss+ Antenna Gain

For GSM, 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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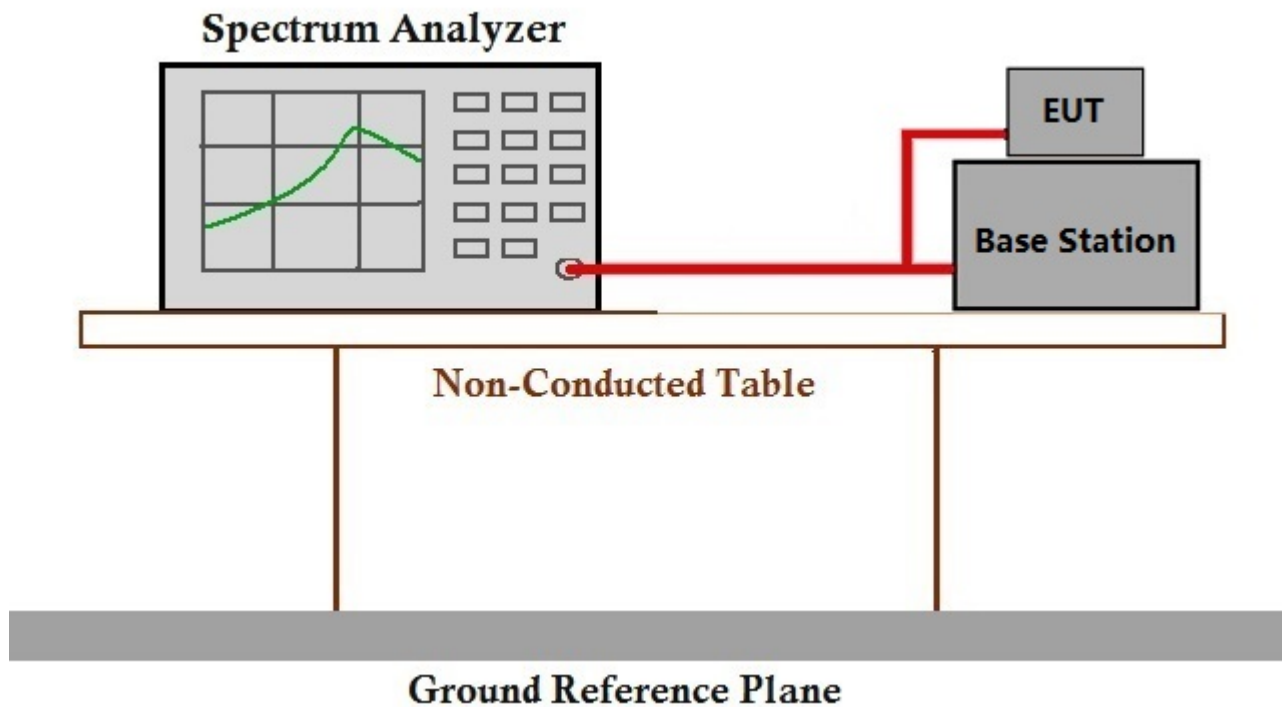
**6.7 Frequency stability**

Test Requirement: §2.1055, §22.355, §24.235  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  $\leq \pm 2.5\text{ppm}$ .

**6.7.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 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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Test Band: GSM850 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NT	LV	-10.0086	-13.7538	-8.9109	-0.0121	-0.0164	-0.0105	2.50	PASS
		NV	-11.4292	-9.3629	-13.2372	-0.0139	-0.0112	-0.0156	2.50	PASS
		HV	-14.0121	-10.0409	-12.5592	-0.0170	-0.0120	-0.0148	2.50	PASS
GPRS	NT	LV	-13.3341	-1.4529	-13.3018	-0.0162	-0.0017	-0.0157	2.50	PASS
		NV	-10.9126	-6.2635	-6.5217	-0.0132	-0.0075	-0.0077	2.50	PASS
		HV	-9.8795	-2.7766	-10.4283	-0.0120	-0.0033	-0.0123	2.50	PASS

Test Band: GSM850 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NV	-30.00	-11.2032	-11.3969	-12.6560	-0.0136	-0.0136	-0.0149	2.50	PASS
		-20.00	-13.5278	-11.6229	-15.2066	-0.0164	-0.0139	-0.0179	2.50	PASS
		-10.00	-9.3629	-12.9143	-14.3672	-0.0114	-0.0154	-0.0169	2.50	PASS
		0.00	-10.8803	-12.3978	-12.4946	-0.0132	-0.0148	-0.0147	2.50	PASS
		10.00	-8.5558	-12.0103	-10.7189	-0.0104	-0.0144	-0.0126	2.50	PASS
		20.00	-9.9118	-14.9161	-11.0740	-0.0120	-0.0178	-0.0130	2.50	PASS
		30.00	-9.2015	-9.6535	-11.0740	-0.0112	-0.0115	-0.0130	2.50	PASS
		40.00	-16.1106	-11.3969	-12.3655	-0.0195	-0.0136	-0.0146	2.50	PASS
		50.00	-15.2712	-10.2669	-12.2363	-0.0185	-0.0123	-0.0144	2.50	PASS
GPRS	NV	-30.00	-10.2023	-10.6866	-12.9466	-0.0124	-0.0128	-0.0153	2.50	PASS
		-20.00	-14.6578	-12.0426	-10.8803	-0.0178	-0.0144	-0.0128	2.50	PASS
		-10.00	-12.1718	-12.2363	-8.7495	-0.0148	-0.0146	-0.0103	2.50	PASS
		0.00	-14.3349	-13.0435	-10.5898	-0.0174	-0.0156	-0.0125	2.50	PASS
		10.00	-6.9415	-7.9423	-10.5898	-0.0084	-0.0095	-0.0125	2.50	PASS
		20.00	-4.8752	-10.0409	-10.2346	-0.0059	-0.0120	-0.0121	2.50	PASS
		30.00	-12.0749	-14.5609	-7.6840	-0.0147	-0.0174	-0.0091	2.50	PASS
		40.00	-5.8760	-8.5235	-4.9397	-0.0071	-0.0102	-0.0058	2.50	PASS
		50.00	-7.0706	-12.9143	-12.3978	-0.0086	-0.0154	-0.0146	2.50	PASS



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Test Band: PCS1900 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NT	LV	-25.6350	-26.4098	-30.9298	-0.0139	-0.0140	-0.0162	2.50	PASS
		NV	-15.6909	-31.1881	-24.4404	-0.0085	-0.0166	-0.0128	2.50	PASS
		HV	-25.7641	-31.6078	-27.1524	-0.0139	-0.0168	-0.0142	2.50	PASS
GPRS	NT	LV	1.4851	-4.6814	3.5514	0.0008	-0.0025	0.0019	2.50	PASS
		NV	8.7495	-4.6492	4.2617	0.0047	-0.0025	0.0022	2.50	PASS
		HV	3.8097	-4.8752	-18.1446	0.0021	-0.0026	-0.0095	2.50	PASS

Test Band: PCS1900 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NV	-30.00	-29.6061	-35.6436	-24.8278	-0.0160	-0.0190	-0.0130	2.50	PASS
		-20.00	-22.2127	-27.6367	-24.2467	-0.0120	-0.0147	-0.0127	2.50	PASS
		-10.00	-20.2432	-32.4796	-27.8950	-0.0109	-0.0173	-0.0146	2.50	PASS
		0.00	-24.2790	-34.5781	-25.8610	-0.0131	-0.0184	-0.0135	2.50	PASS
		10.00	-26.1838	-29.6061	-36.1924	-0.0142	-0.0157	-0.0190	2.50	PASS
		20.00	-26.1838	-30.8976	-21.5024	-0.0142	-0.0164	-0.0113	2.50	PASS
		30.00	-25.2798	-26.4744	-31.0267	-0.0137	-0.0141	-0.0162	2.50	PASS
		40.00	-20.3724	-23.7301	-27.9273	-0.0110	-0.0126	-0.0146	2.50	PASS
GPRS	NV	50.00	-14.3349	-32.0276	-29.9290	-0.0077	-0.0170	-0.0157	2.50	PASS
		-30.00	2.1632	-2.2277	-2.4860	0.0012	-0.0012	-0.0013	2.50	PASS
		-20.00	1.9049	-0.9686	0.7749	0.0010	-0.0005	0.0004	2.50	PASS
		-10.00	2.2600	3.5514	-17.4344	0.0012	0.0019	-0.0091	2.50	PASS
		0.00	1.1623	-2.0663	-0.4197	0.0006	-0.0011	-0.0002	2.50	PASS
		10.00	4.1649	1.3560	-0.5489	0.0023	0.0007	-0.0003	2.50	PASS
		20.00	3.2932	4.8752	-21.5024	0.0018	0.0026	-0.0113	2.50	PASS
		30.00	4.6492	-2.3246	-6.8123	0.0025	-0.0012	-0.0036	2.50	PASS
40.00	3.8420	4.3263	-0.0646	0.0021	0.0023	0.0000	2.50	PASS		
50.00	3.8420	-3.7774	-1.2269	0.0021	-0.0020	-0.0006	2.50	PASS		



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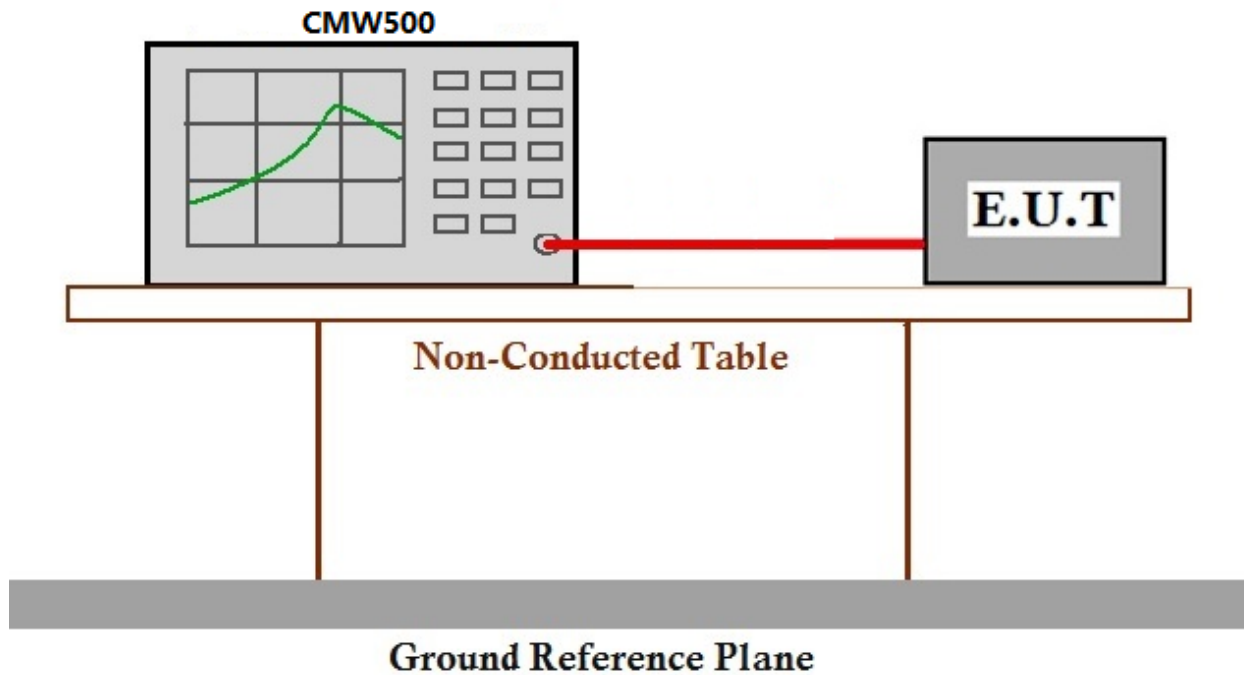
### 6.8 Modulation Characteristics

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: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
 Test mode: f:TX mode\_Keep the EUT in transmitting mode

#### 6.8.2 Test Setup Diagram



#### 6.8.3 Measurement Data

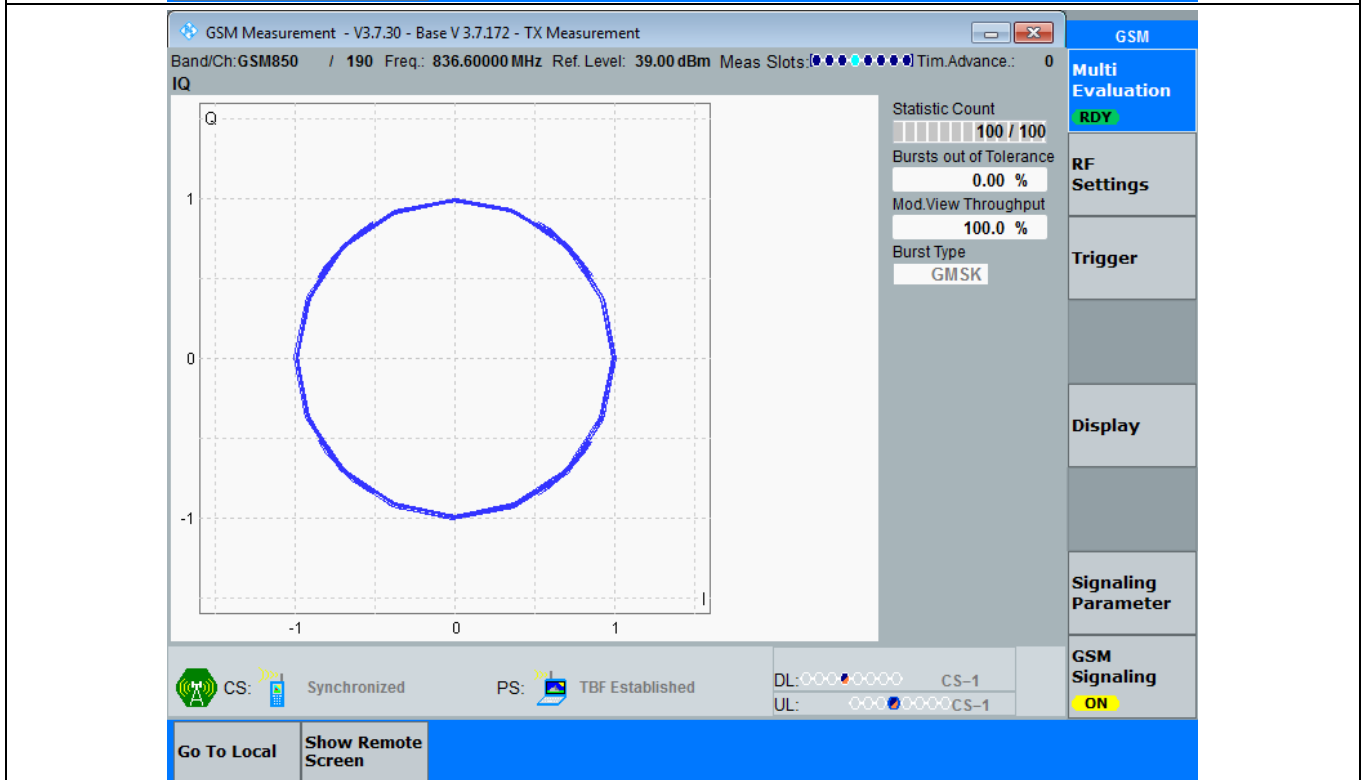
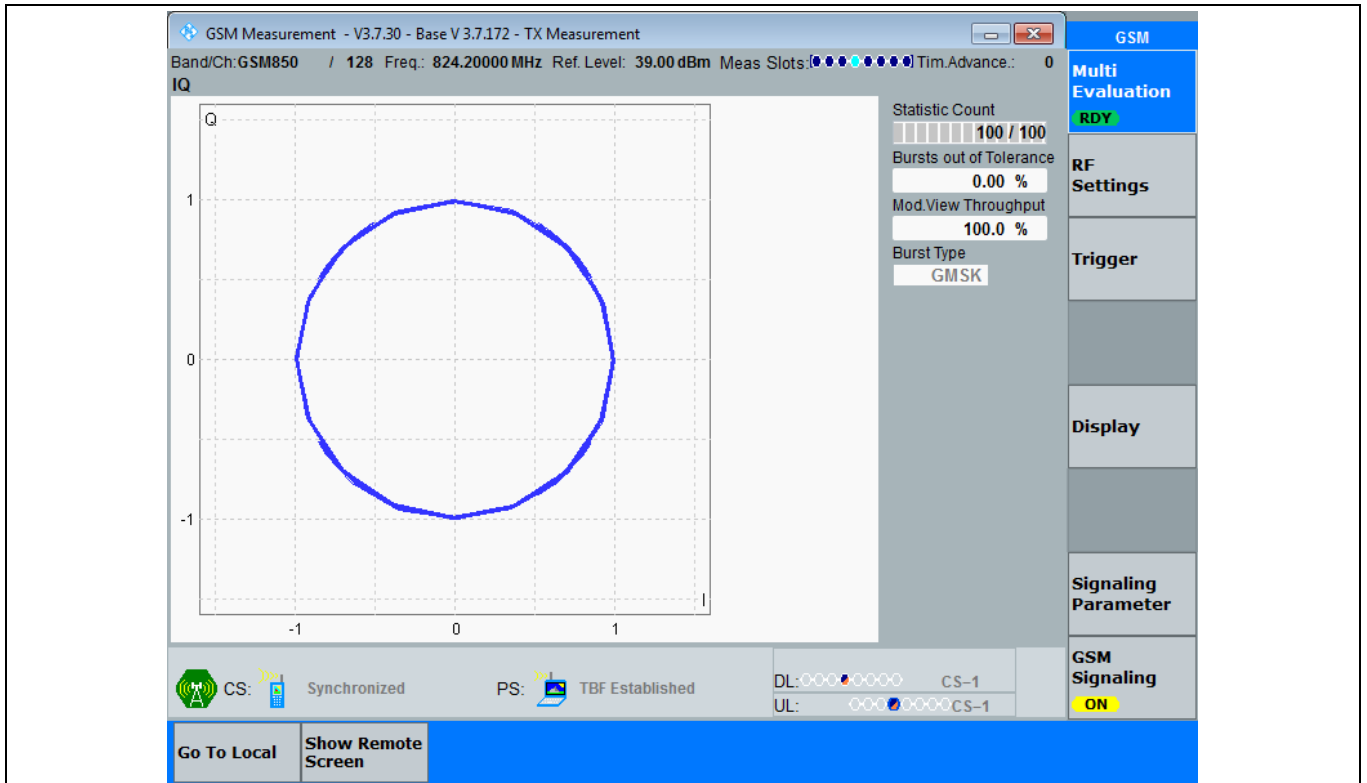


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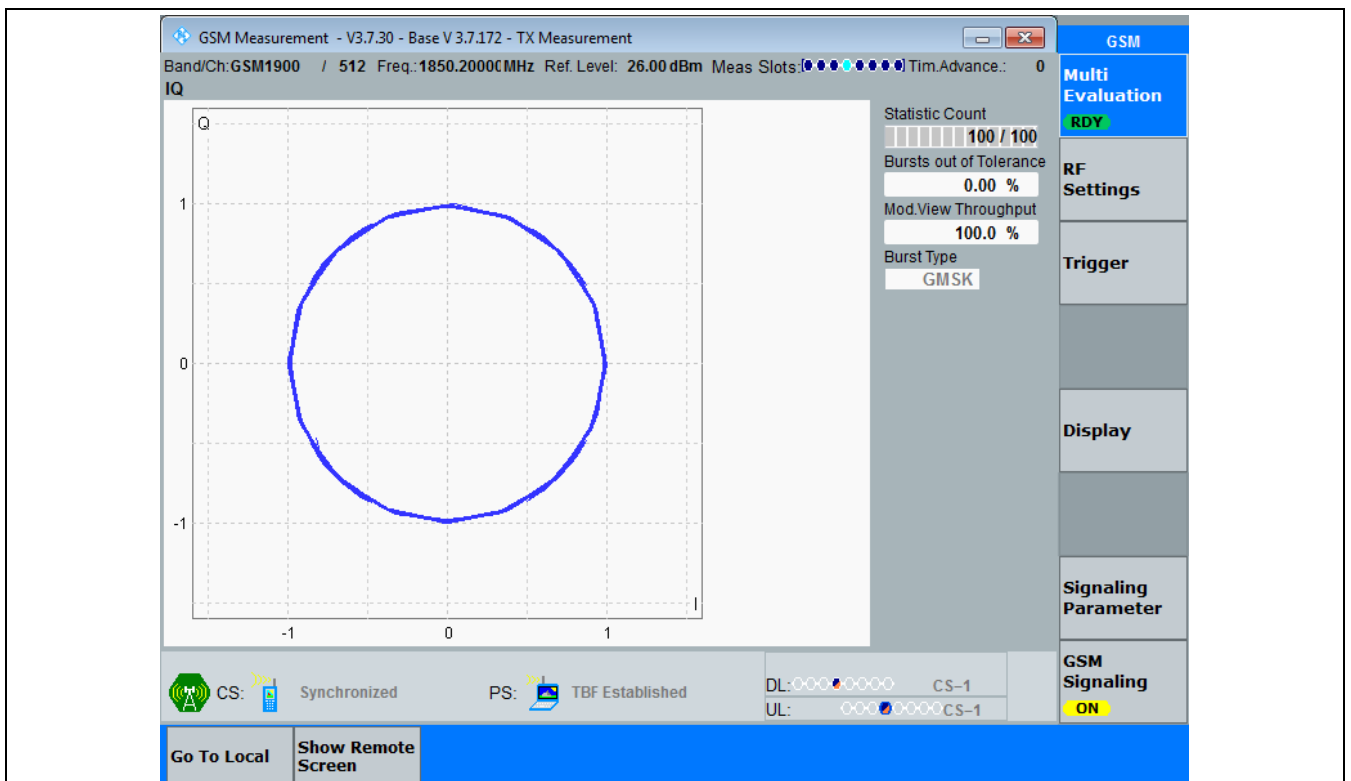
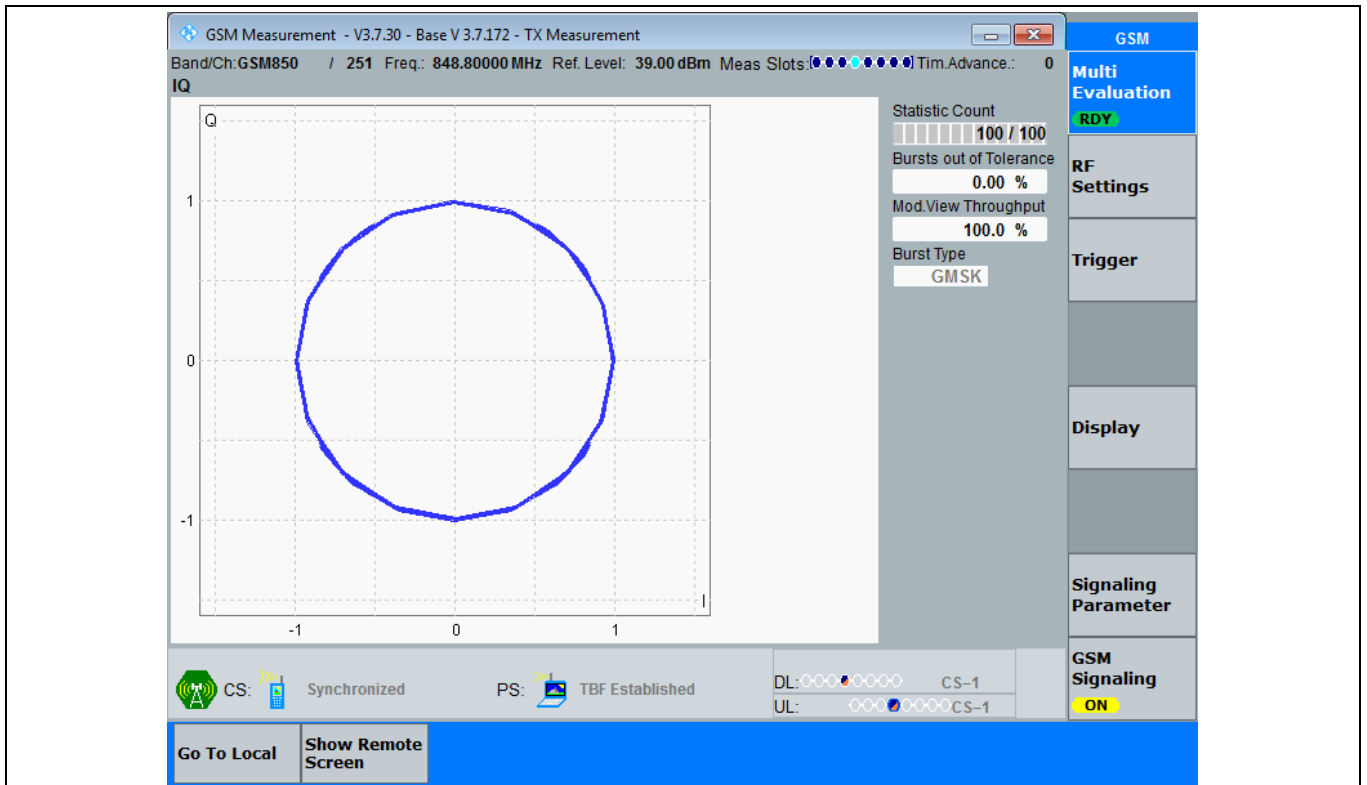




**GPRS**

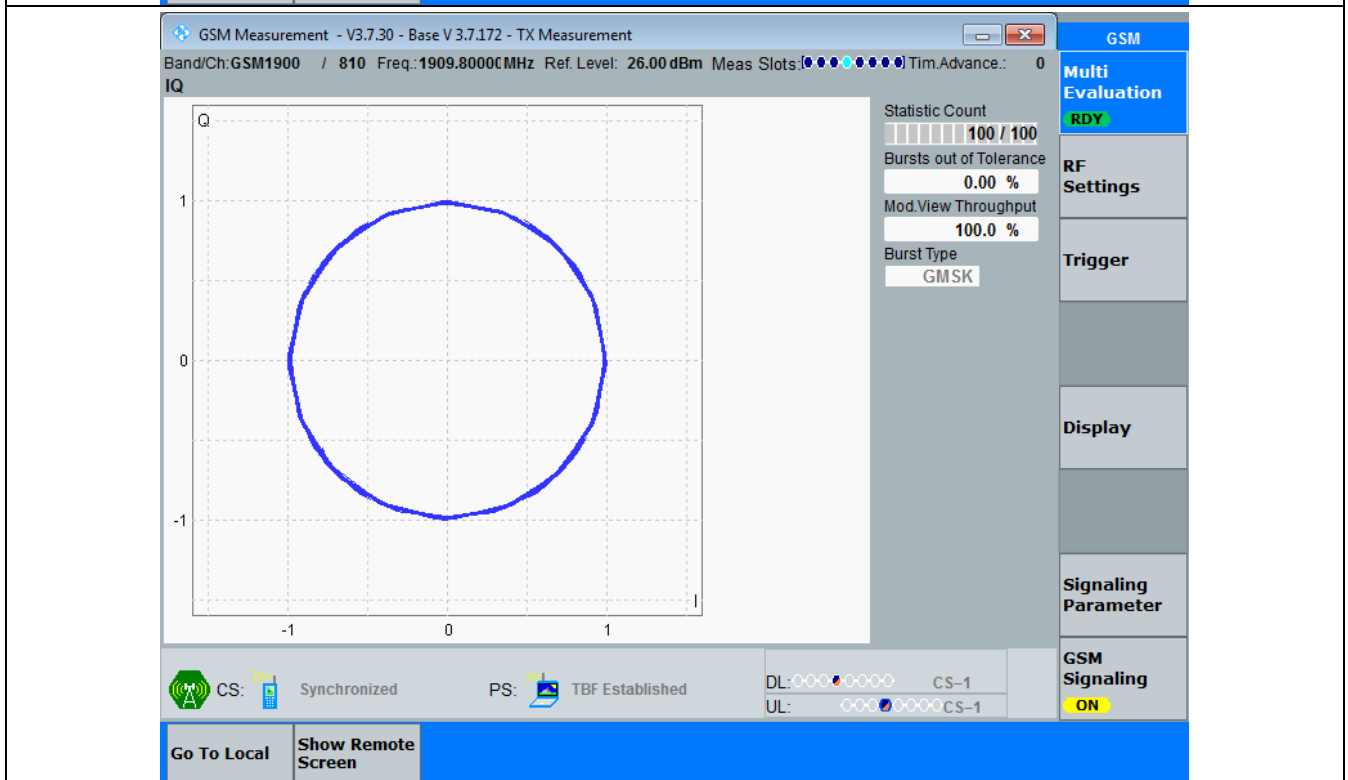
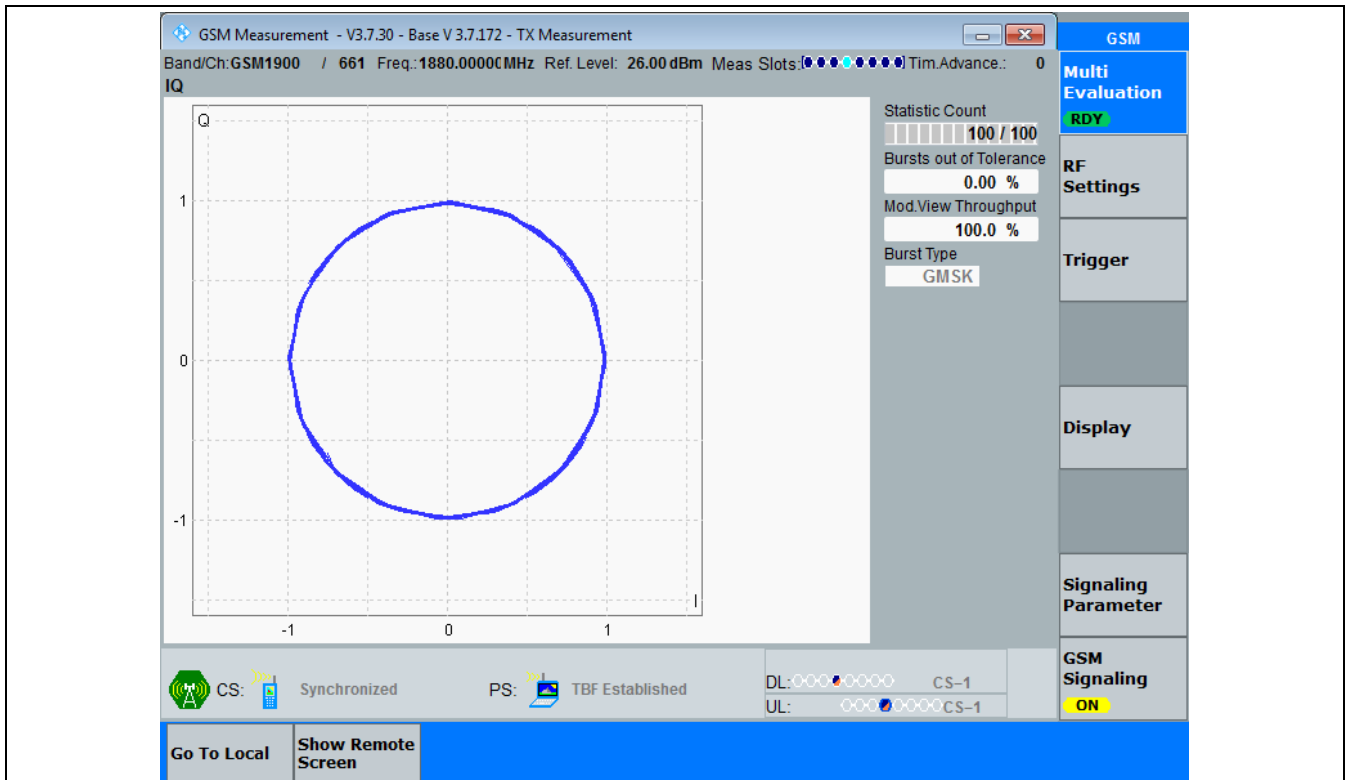


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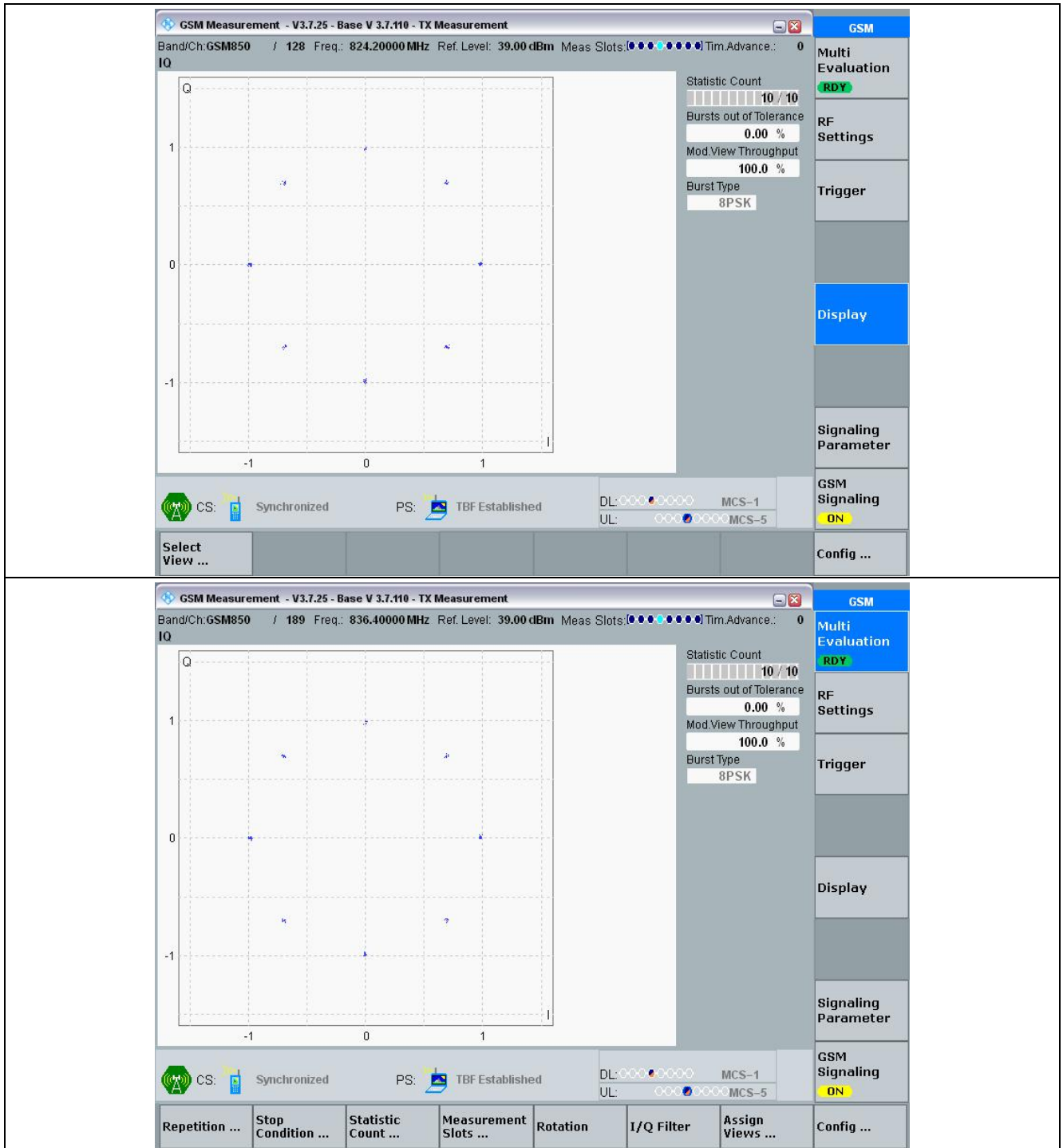


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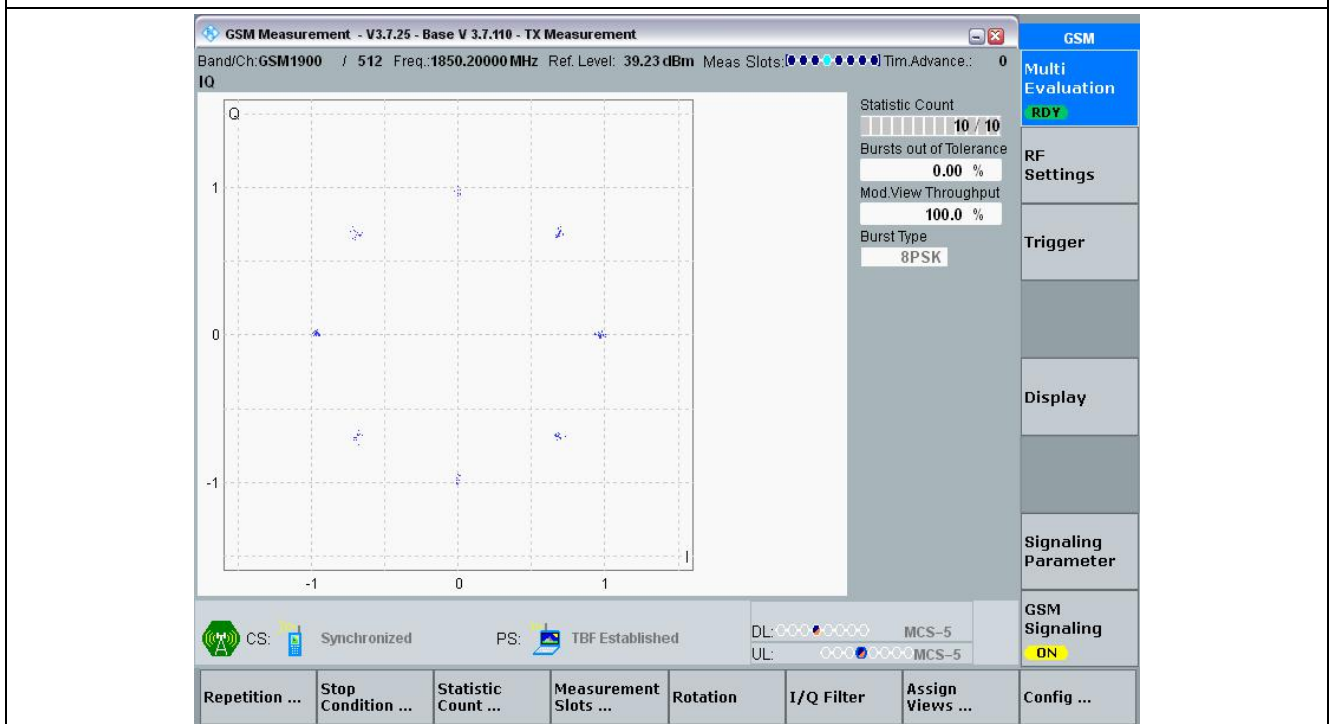
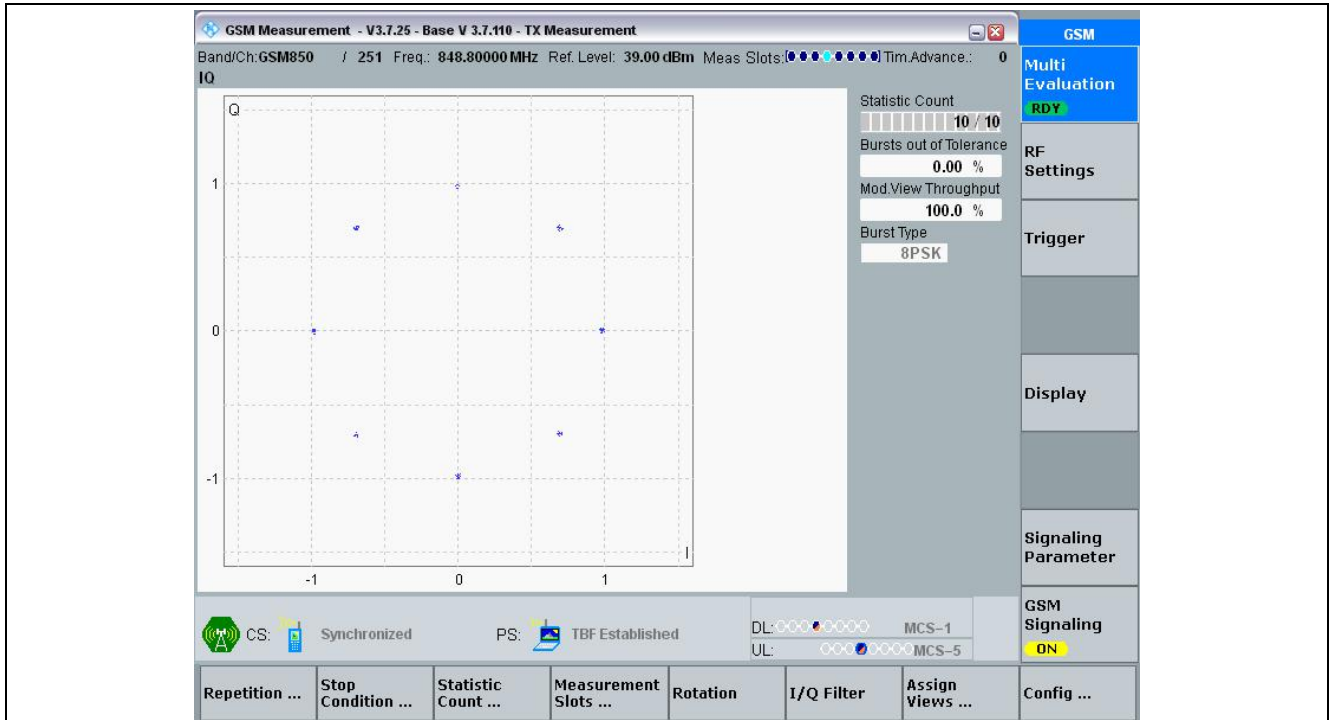
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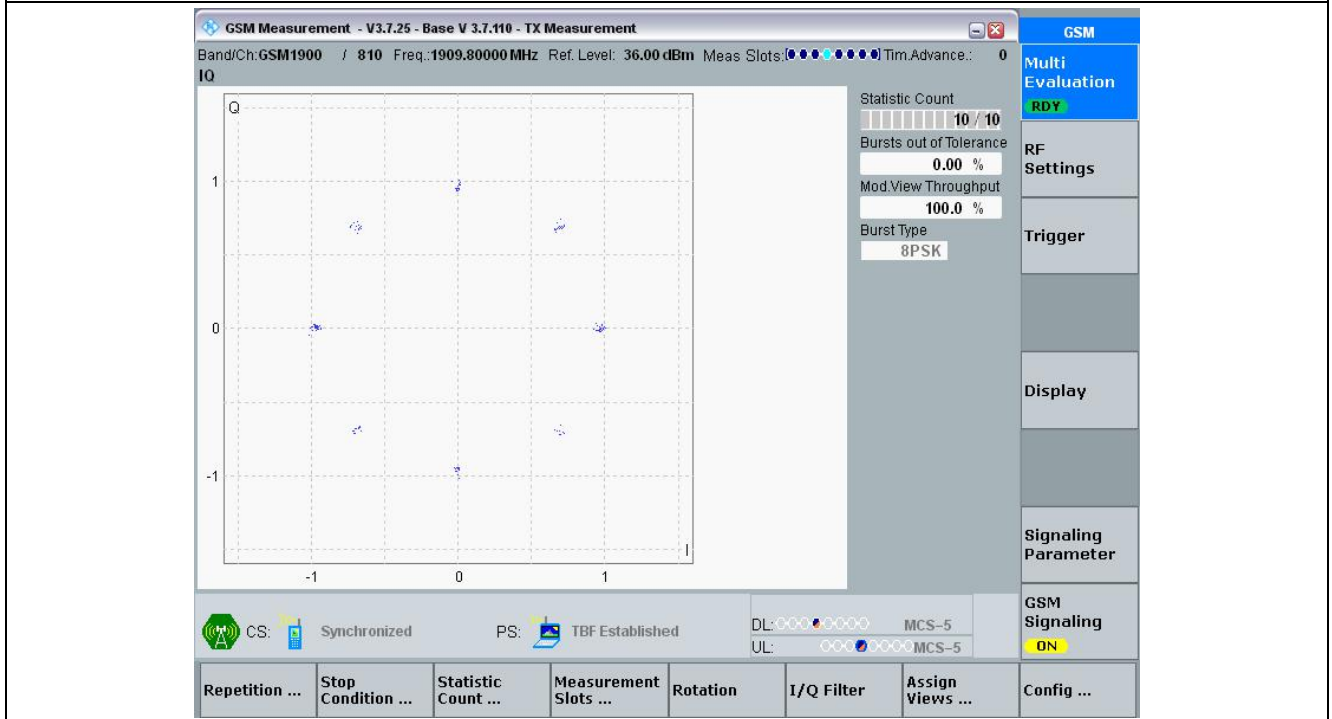
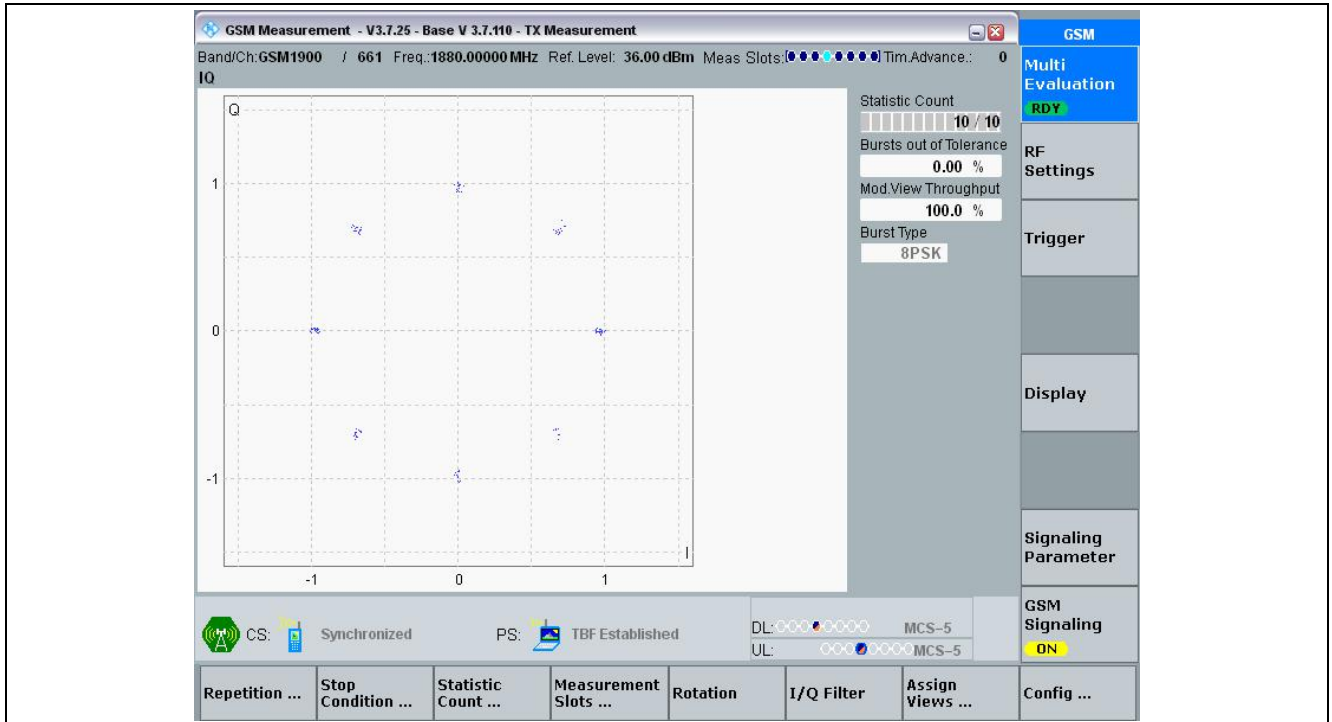
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## 7 Test Setup Photo

Refer to Appendix – Test Setup Photos for GZCR2108020821AT

## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for GZCR2108020821AT

- End of the Report -



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