



EMC-TRF-01 Rev 1.0

Report No.: GZCR210802081505

Page: 1 of 56

FCC ID: V5PD190LTEBW

TEST REPORT

Application No.: SZCR2106021815AT
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.
Equipment Under Test (EUT):
EUT Name: Mobile Payment Terminal
Model No.: D190
Trade Mark: PAX
Standard(s) : 47 CFR Part 2
47 CFR Part 22 subpart H
47 CFR Part 24 subpart E
Date of Receipt: 2021-06-25
Date of Test: 2021-06-25 to 2021-08-24
Date of Issue: 2021-08-30

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-08-30		Original

Authorized for issue by:				
				
		Curry Wu/Project Engineer		
				
		Ricky Liu/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, WCDMA band V) EIRP≤2W(GSM1900, WCDMA band II)	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:	DC3.7V by li-ion battery(1900mAh) Recharged by AC/DC power adapter Adapter M/N:GLH50D1000HW Adapter input: 100-240VAC, 50/60Hz, 0.40A Adapter output: DC5V/1A
Cable(s):	USB type C cable: 1m shielded cable without ferrite core
Sample Type:	Portable production
Sample NO.:	1260263900
Function:	Mobile Payment Terminal with GPRS/EGPRS function
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:	1dBi for GSM850, 0.5dBi for PCS1900
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:	1000Pa	
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	7.25×10^{-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	5.14dB (below 1GHz)
		5.08dB (above 1GHz)
8	Radiated Spurious emission test	5.14dB (below 1GHz)
		5.08dB (above 1GHz)
9	Temperature test	$\pm 1^{\circ}\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$

4.6 Test Location

All tests were performed at:

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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
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2020-07-05	2021-07-04
				2021-07-04	2022-07-03

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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RE in Chamber(above 1GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
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

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2020-07-06	2021-07-05
				2021-07-05	2022-07-04
DMM	Fluke	73	EMC0007	2020-07-06	2021-07-05
				2021-07-05	2022-07-04



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6 Radio Spectrum Matter Test Results

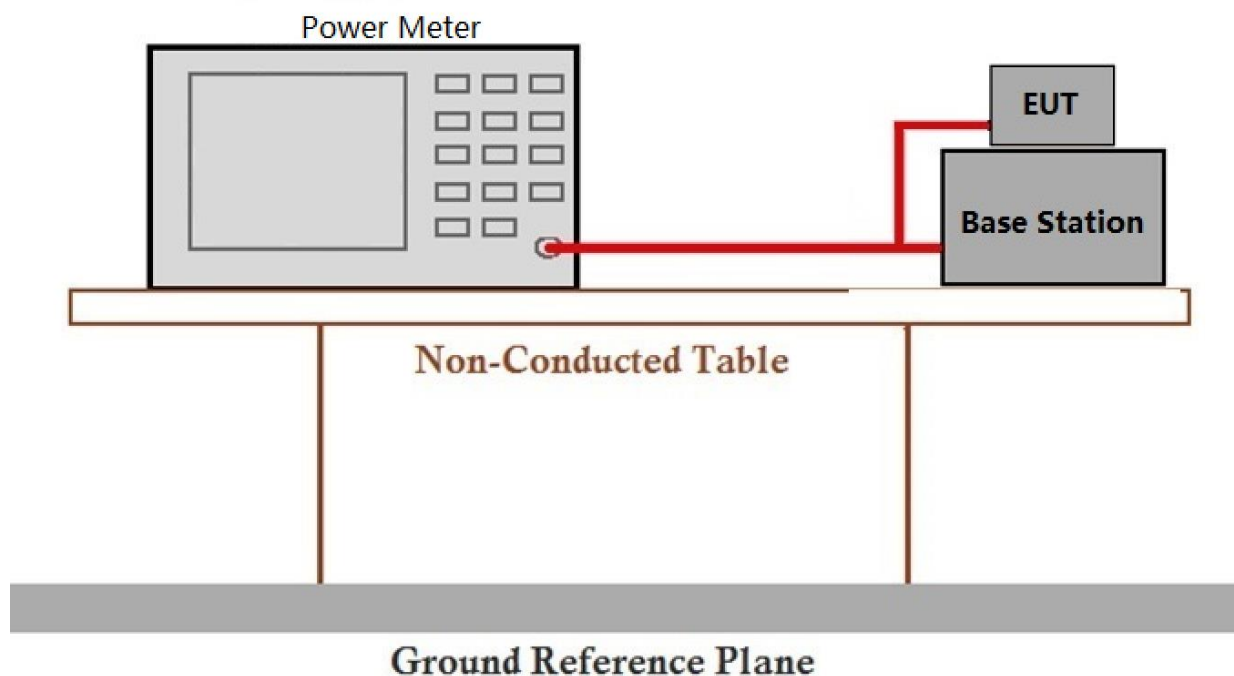
6.1 Effective (Isotropic) Radiated Power Output Data

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: 25.9 °C Humidity: 48.9 % RH Atmospheric Pressure: 1000 mbar
Test mode: 08:TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



6.1.3 Measurement Data



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EMC-TRF-01 Rev 1.0

Report No.: GZCR210802081505

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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	32.36	32.61	32.78	-1.15	1.00	31.21	31.46	31.63	38.45	PASS
	2 TX Slots	28.26	28.42	28.48	-1.15	1.00	27.11	27.27	27.33	38.45	PASS
	3 TX Slots	26.65	26.80	26.86	-1.15	1.00	25.50	25.65	25.71	38.45	PASS
	4 TX Slots	25.41	25.63	25.67	-1.15	1.00	24.26	24.48	24.52	38.45	PASS
GPRS	1 TX Slot	32.76	32.50	32.65	-1.15	1.00	31.61	31.35	31.50	38.45	PASS
	2 TX Slots	28.21	28.32	28.43	-1.15	1.00	27.06	27.17	27.28	38.45	PASS
	3 TX Slots	26.58	26.68	26.78	-1.15	1.00	25.43	25.53	25.63	38.45	PASS
	4 TX Slots	25.41	25.57	25.60	-1.15	1.00	24.26	24.42	24.45	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	30.10	30.02	30.02	/	0.50	30.60	30.52	30.52	33.01	PASS
	2 TX Slots	24.88	24.54	23.97	/	0.50	25.38	25.04	24.47	33.01	PASS
	3 TX Slots	21.72	21.28	20.51	/	0.50	22.22	21.78	21.01	33.01	PASS
	4 TX Slots	20.43	20.06	19.53	/	0.50	20.93	20.56	20.03	33.01	PASS
GPRS	1 TX Slot	30.75	30.34	30.90	/	0.50	31.25	30.84	31.40	33.01	PASS
	2 TX Slots	25.33	24.47	24.02	/	0.50	25.83	24.97	24.52	33.01	PASS
	3 TX Slots	20.76	20.38	20.84	/	0.50	21.26	20.88	21.34	33.01	PASS
	4 TX Slots	20.35	20.04	19.51	/	0.50	20.85	20.54	20.01	33.01	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)											



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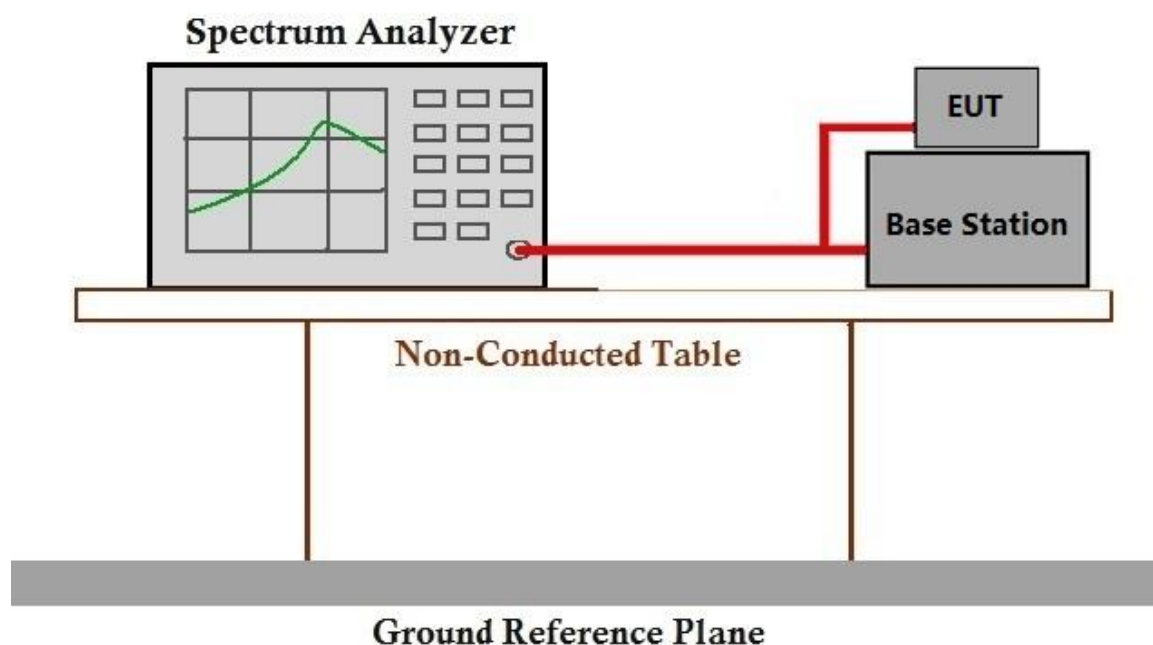
6.2 Peak-Average Ratio

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: 25.9 °C Humidity: 48.9 % RH Atmospheric Pressure: 1000 mbar
Test mode: 08:TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram



6.2.3 Measurement Data



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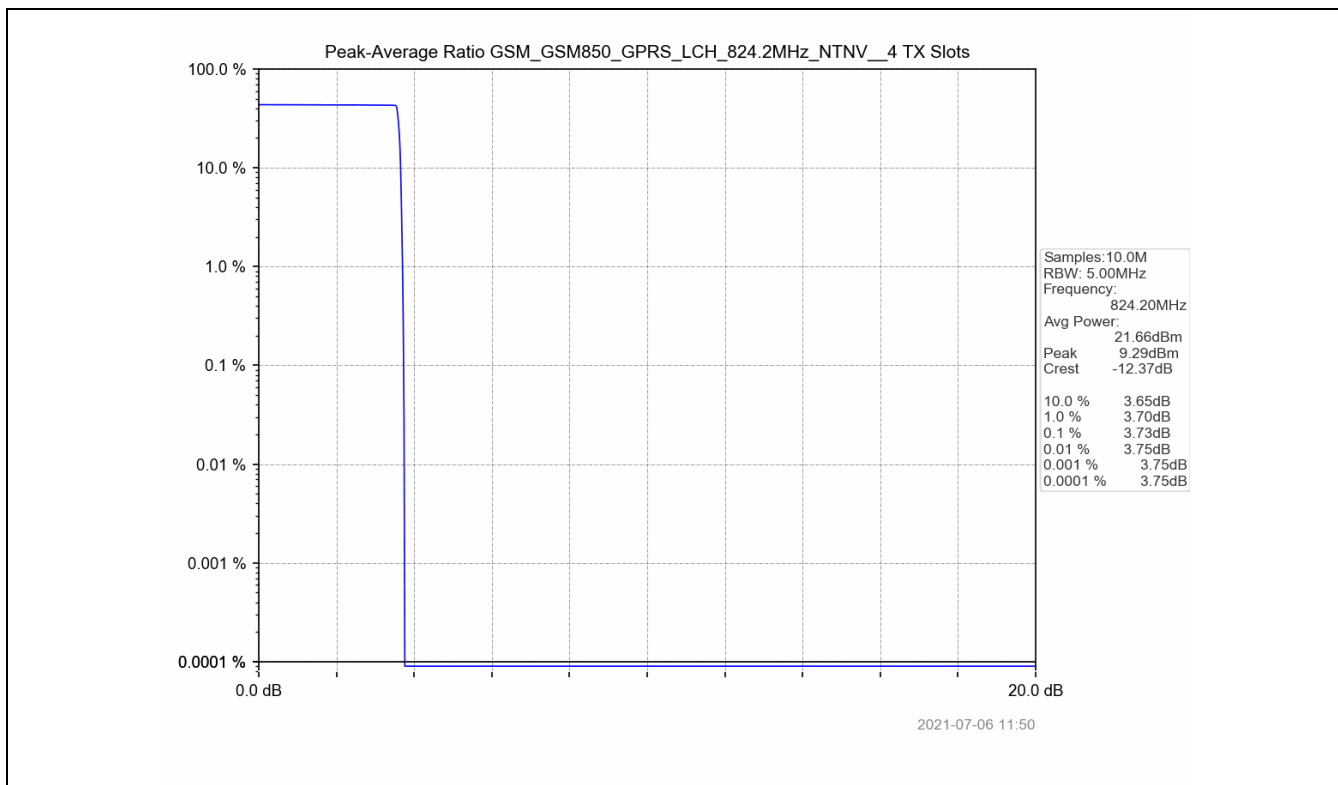
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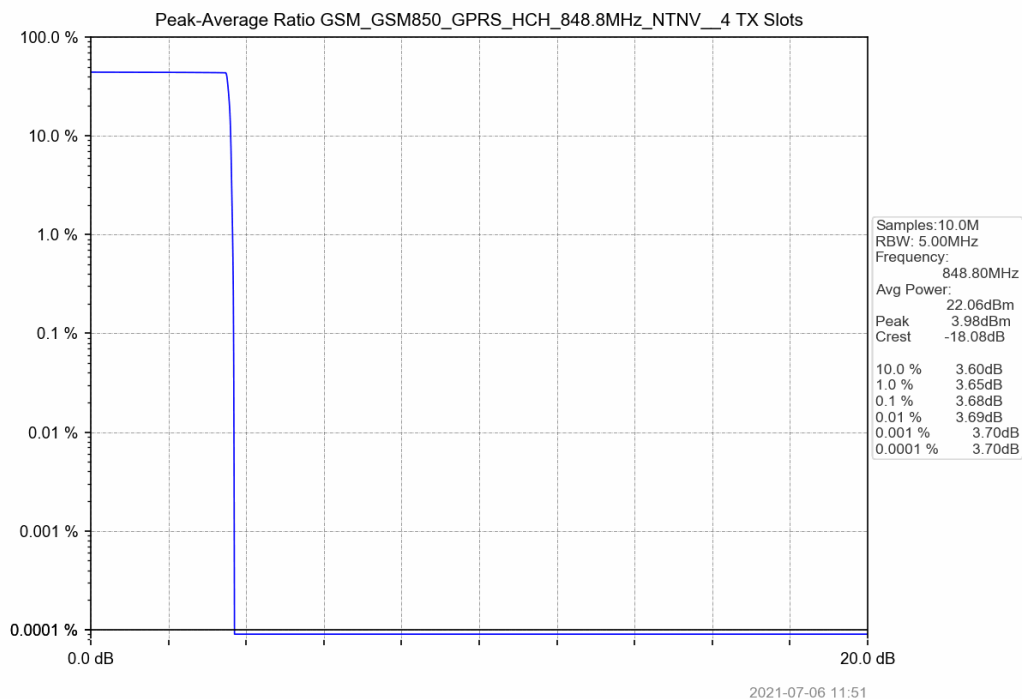
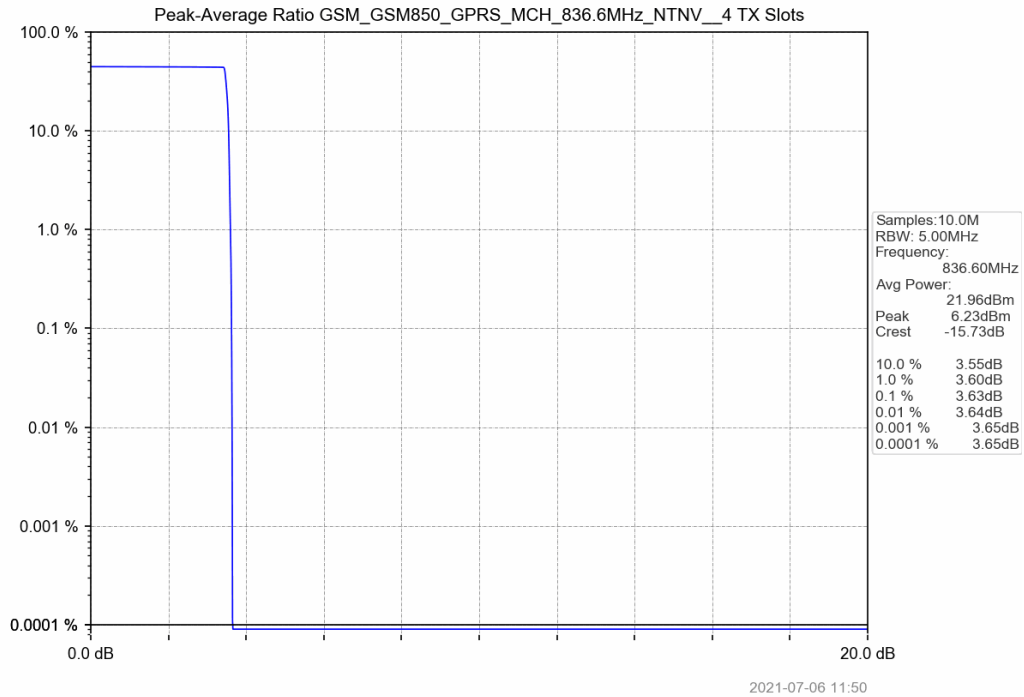
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Test Band: GSM850					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
EGPRS	3.62	3.55	3.67	13	PASS
GPRS	3.73	3.63	3.68	13	PASS

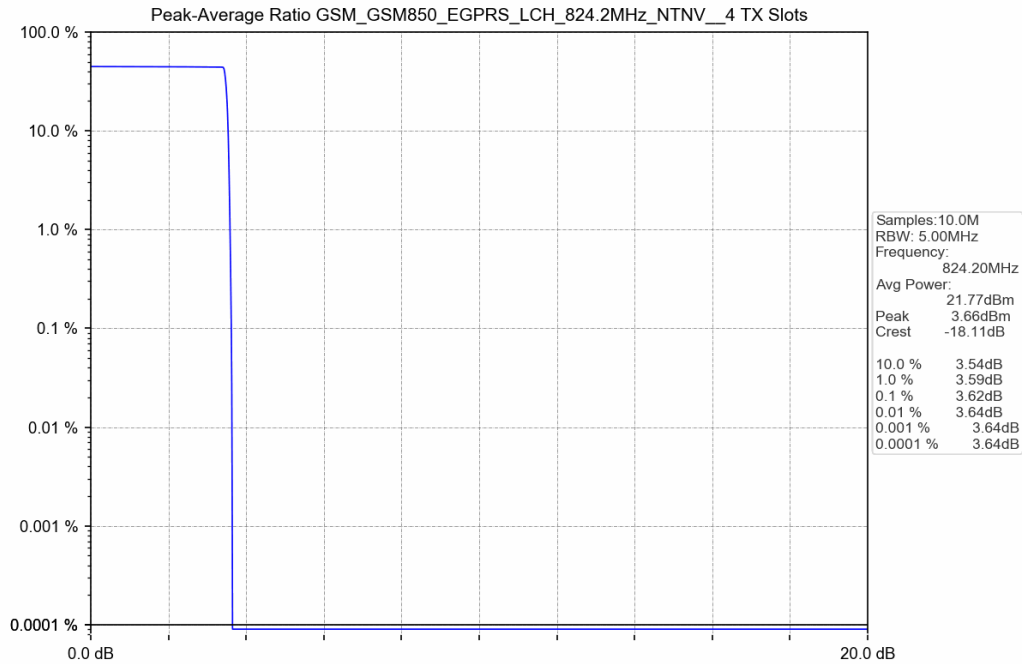
Test Band: PCS1900					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
EGPRS	4.14	4.10	4.30	13	PASS
GPRS	4.26	4.23	4.35	13	PASS



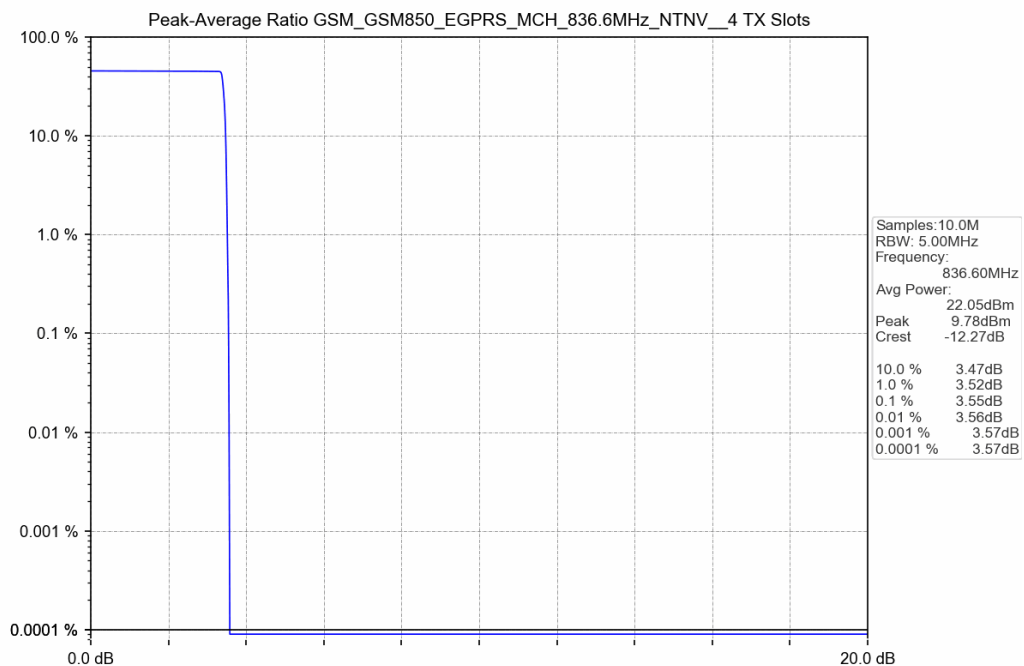


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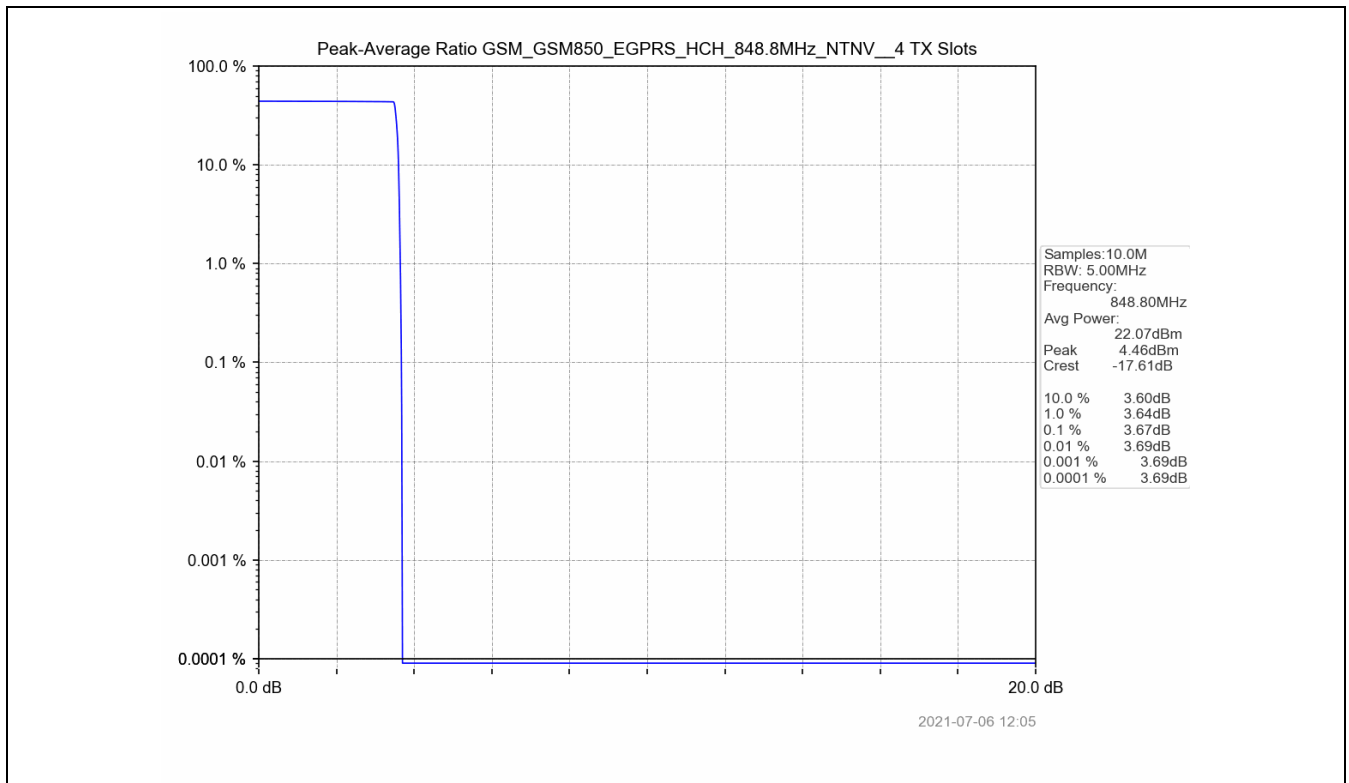


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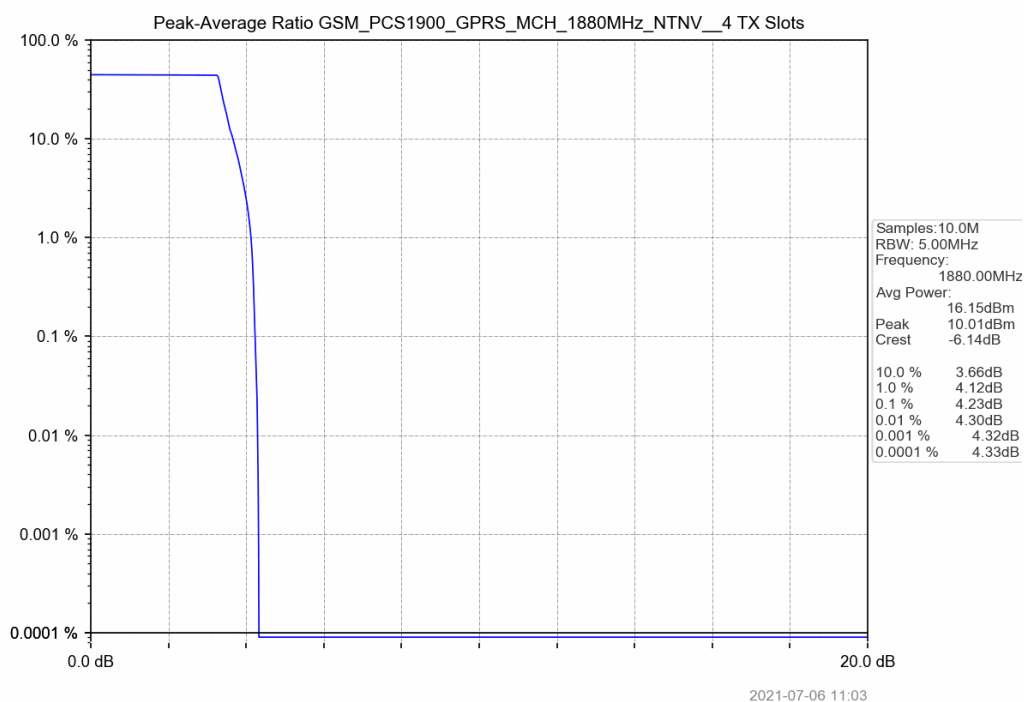
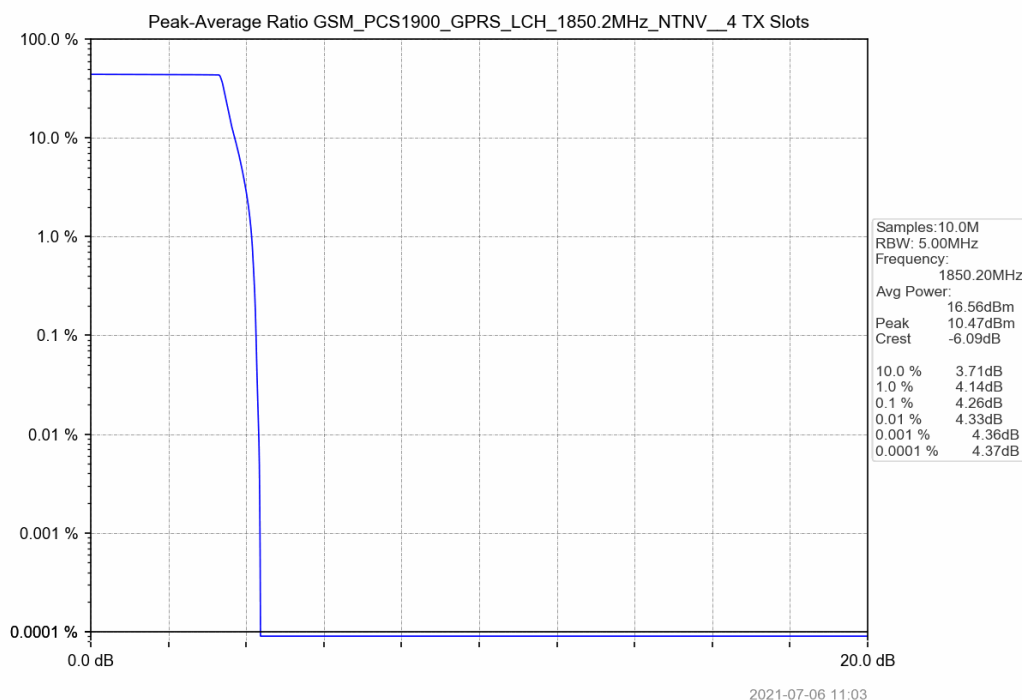
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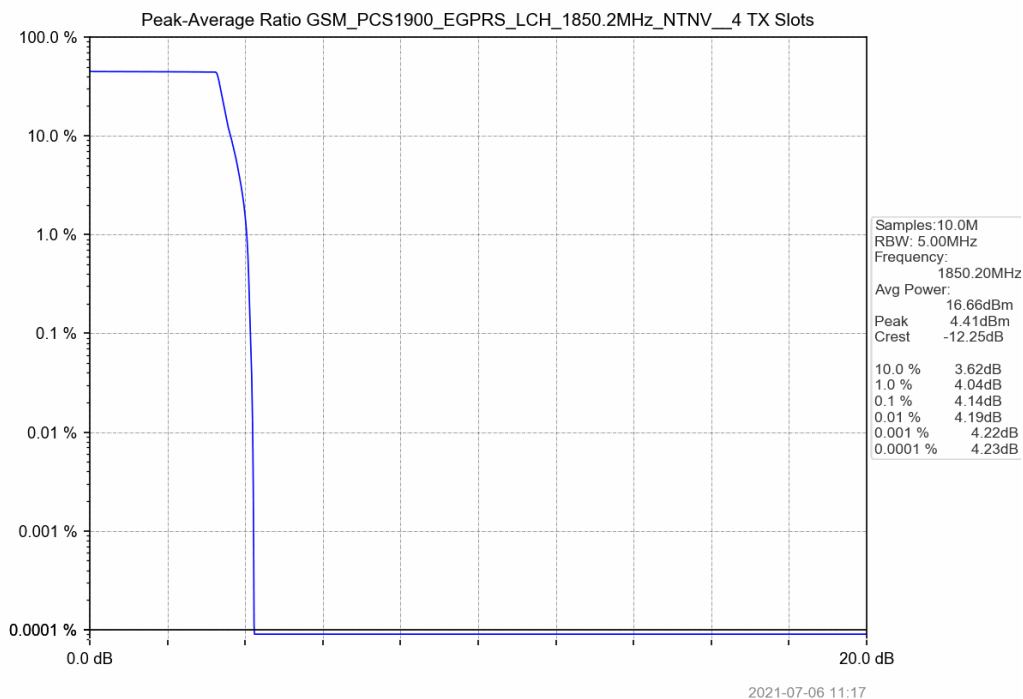
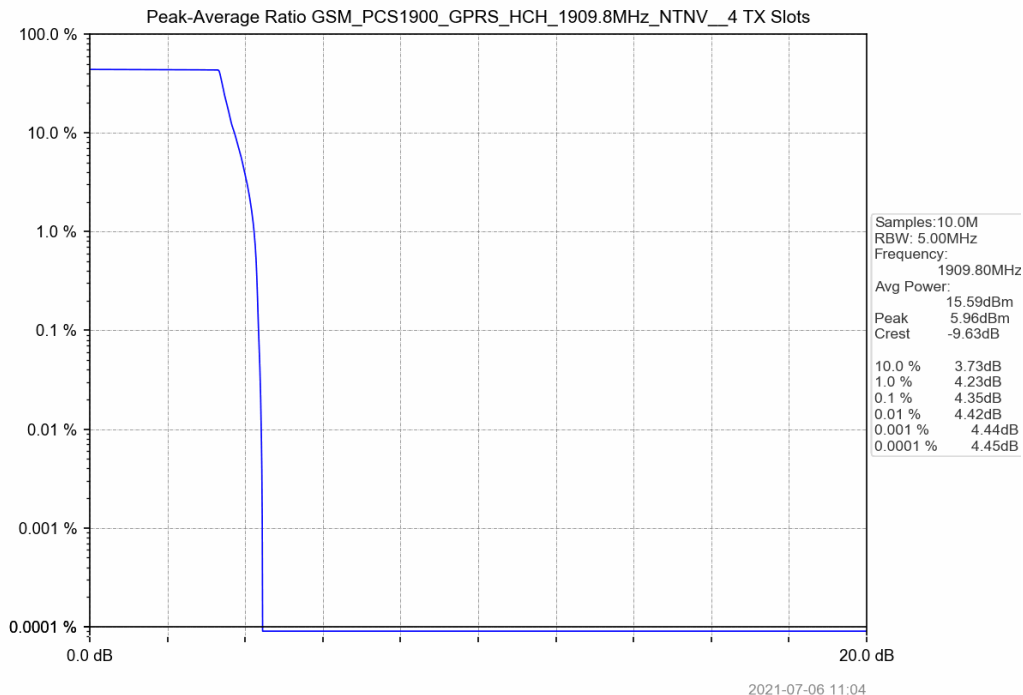
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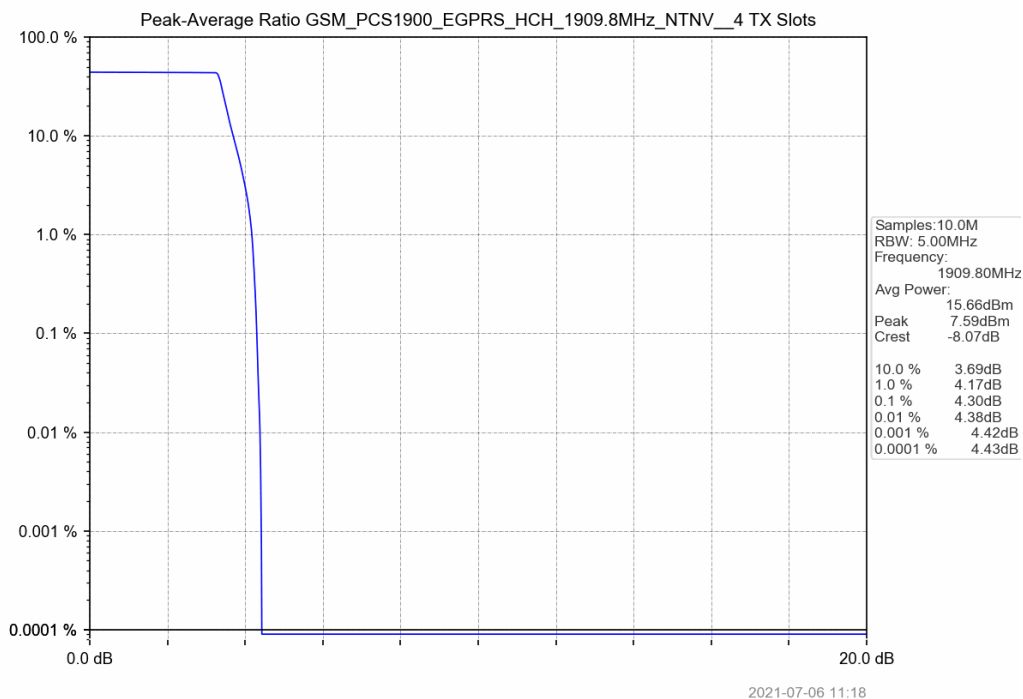
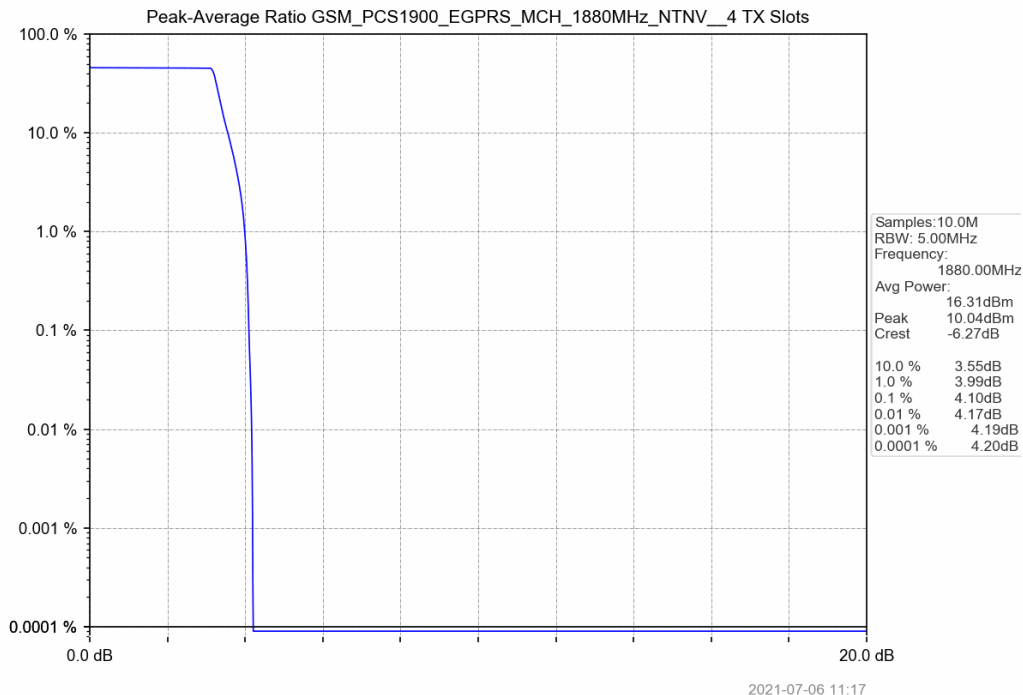
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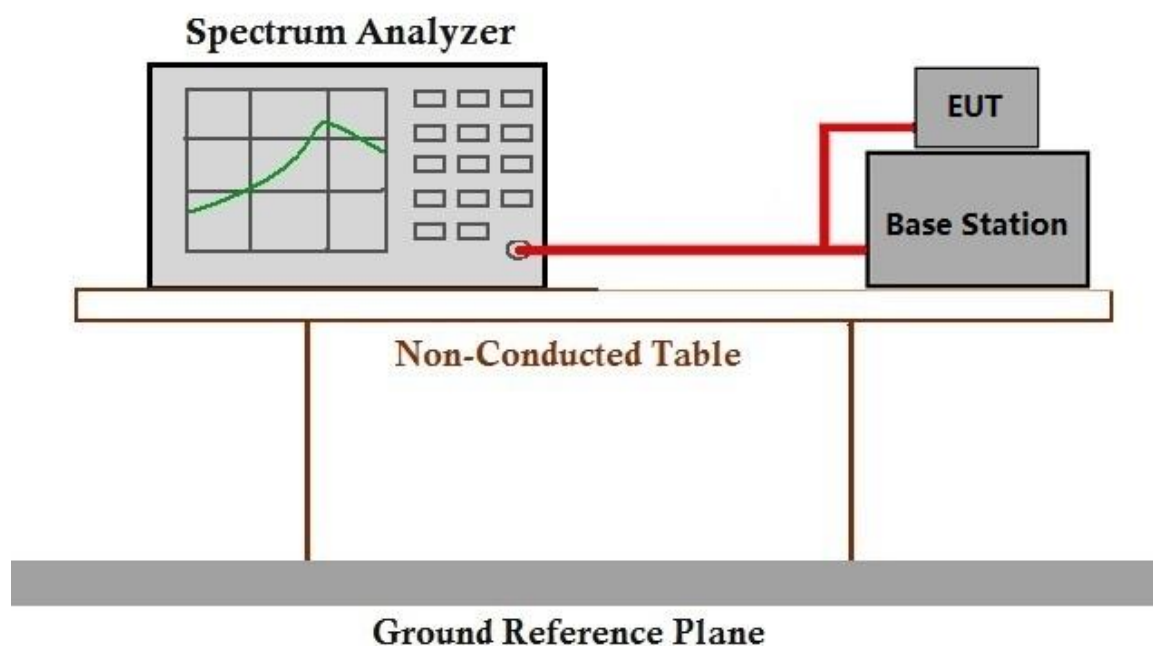
6.3 Bandwidth

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: 25.9 °C Humidity: 48.9 % RH Atmospheric Pressure: 1000 mbar
 Test mode: 08: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	0.246	0.244	0.246	N/A	PASS
GPRS	0.243	0.244	0.245	N/A	PASS

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

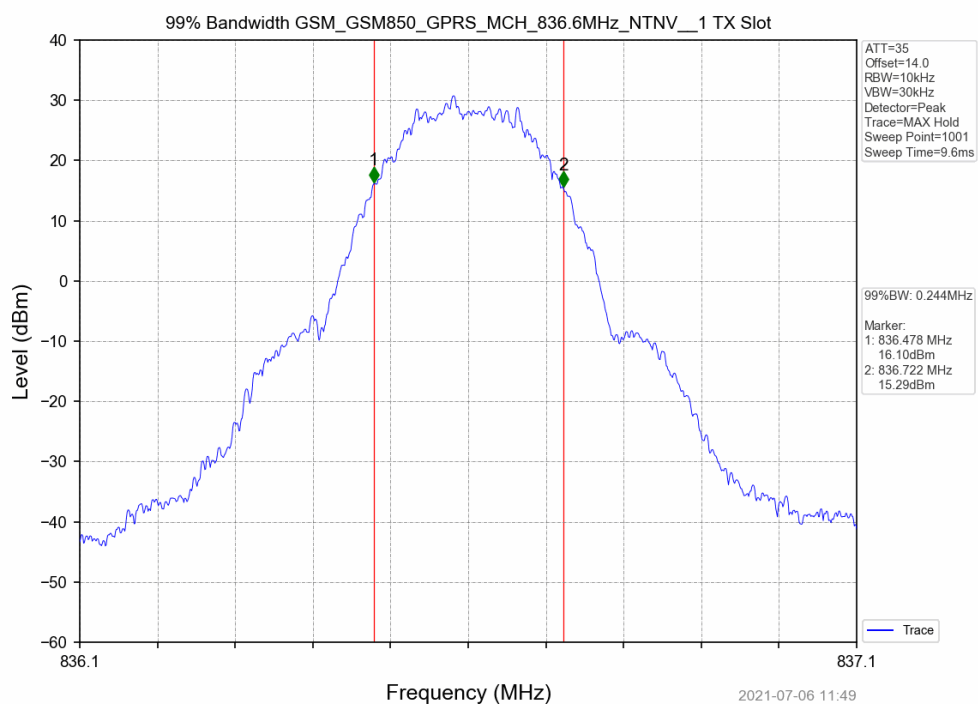
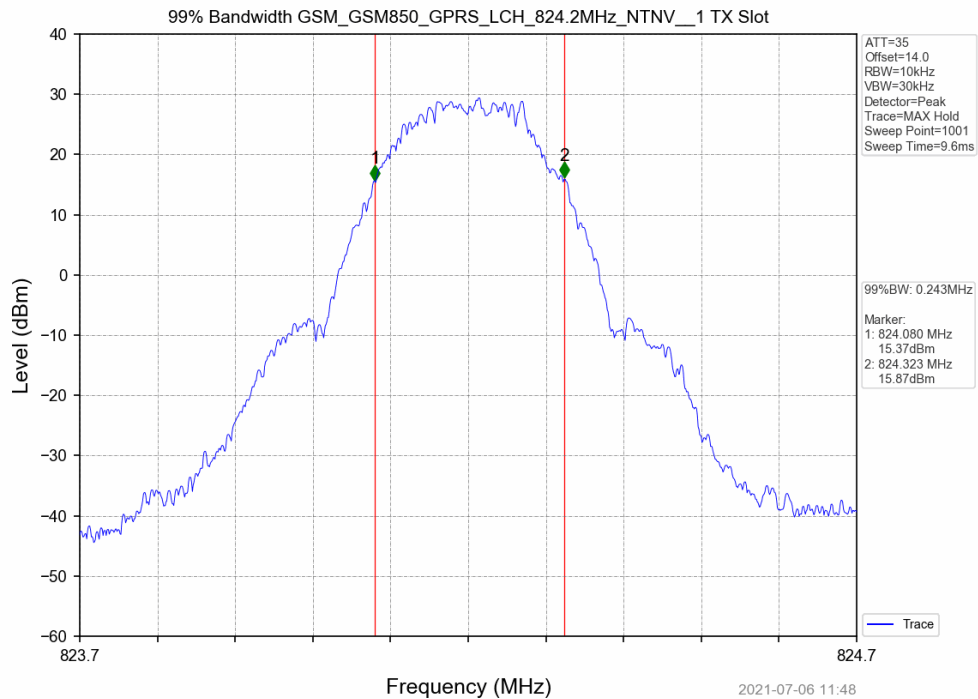
Test Band: GSM850					
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.317	0.323	0.316	N/A	PASS
GPRS	0.317	0.314	0.318	N/A	PASS

Test Band: PCS1900					
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.316	0.319	0.324	N/A	PASS
GPRS	0.321	0.318	0.313	N/A	PASS



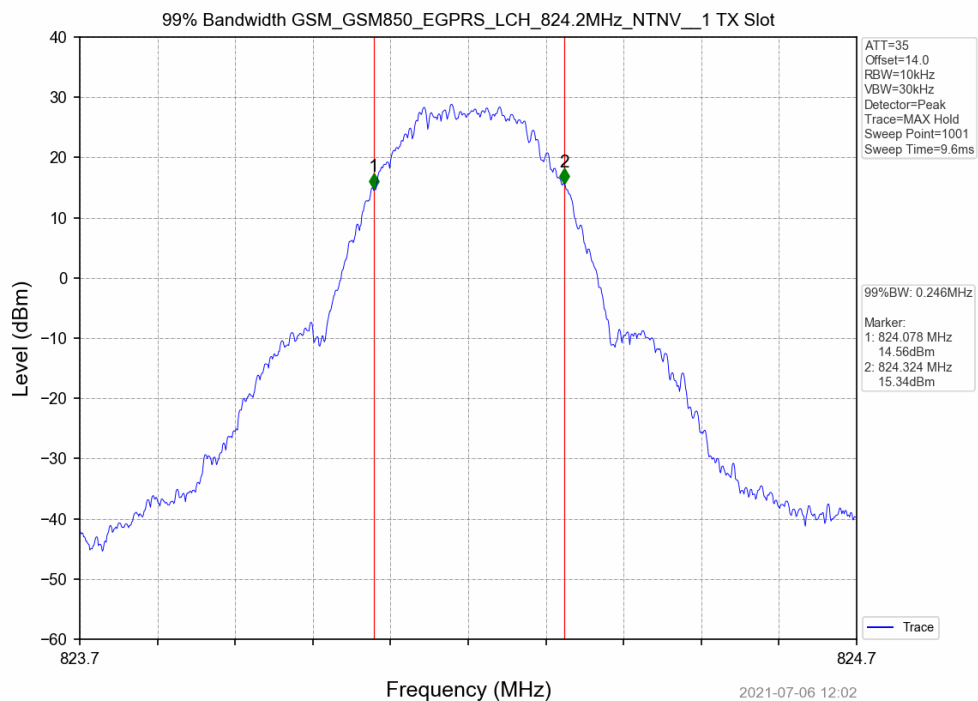
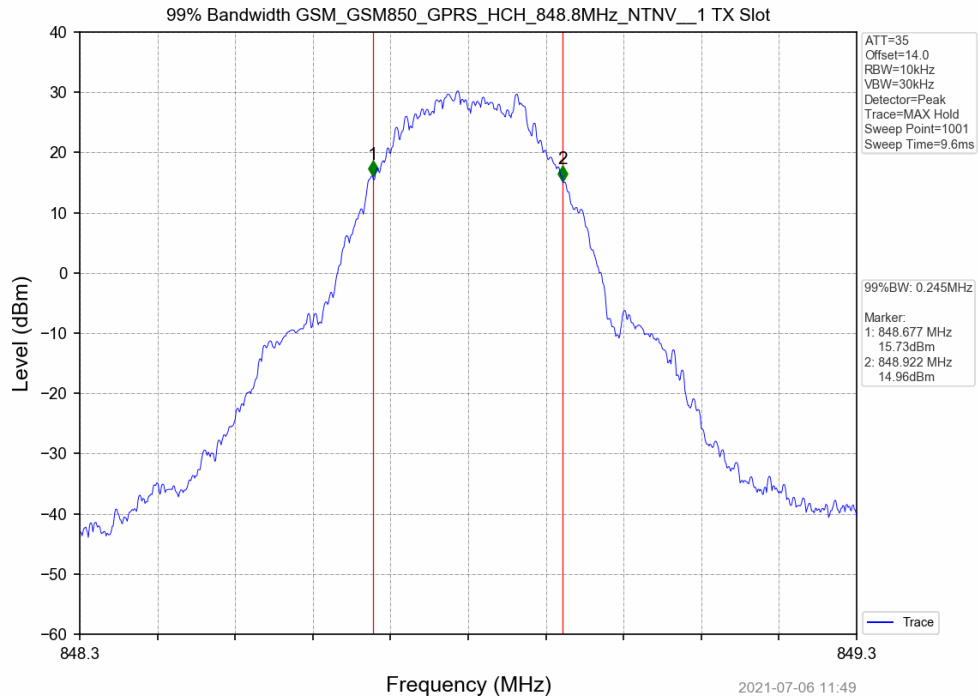
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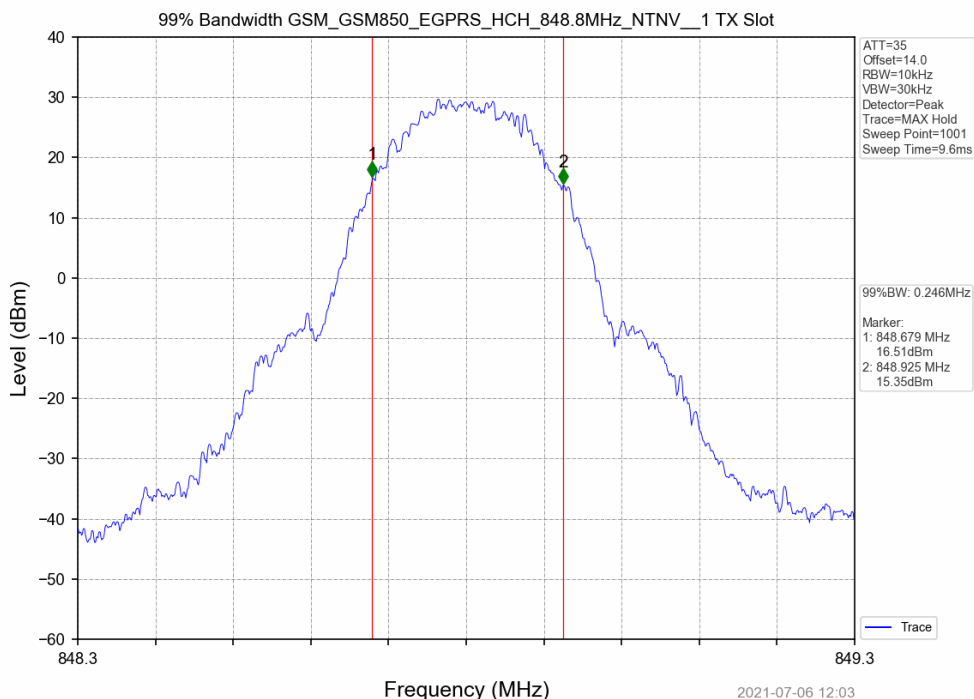
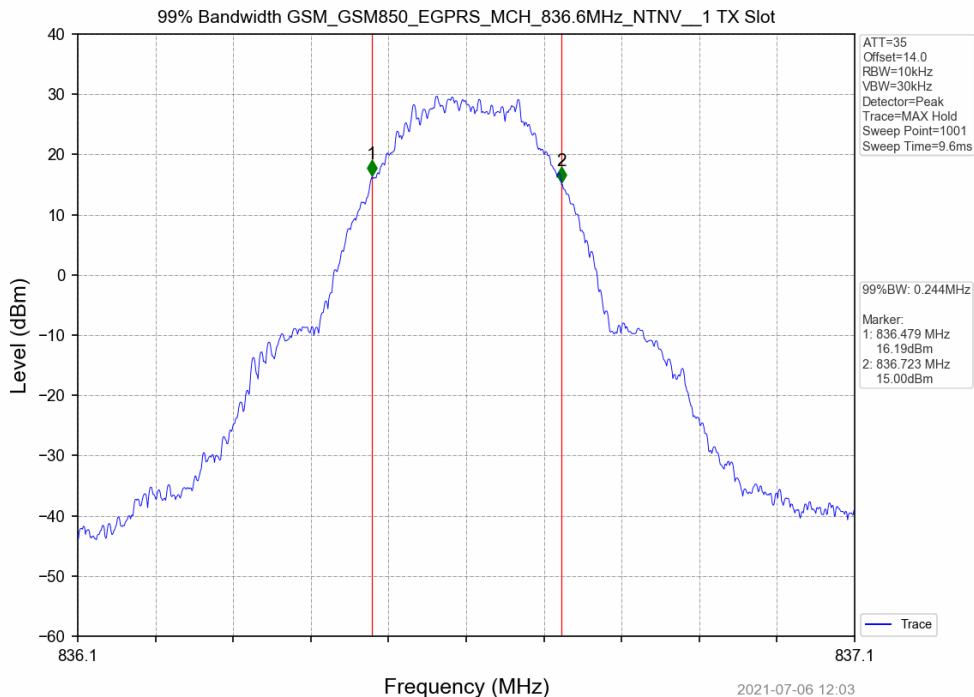
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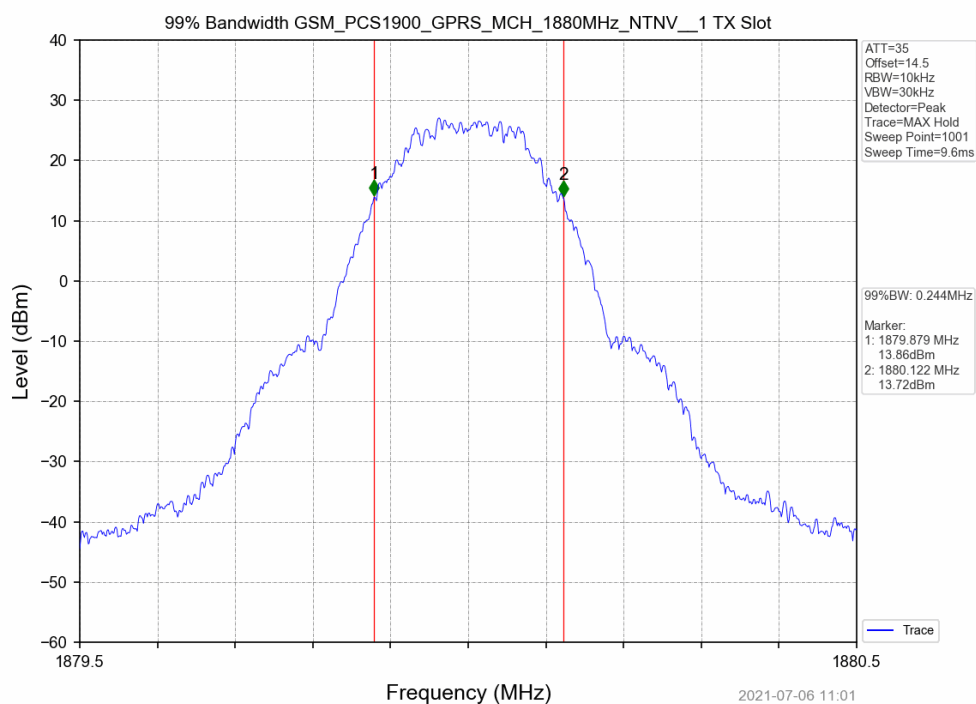
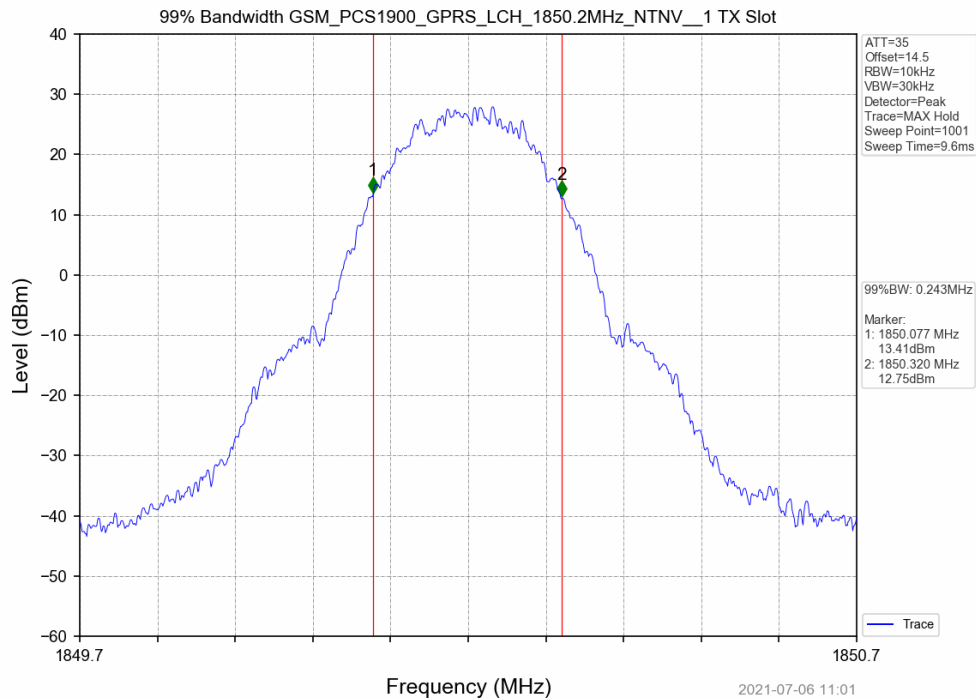
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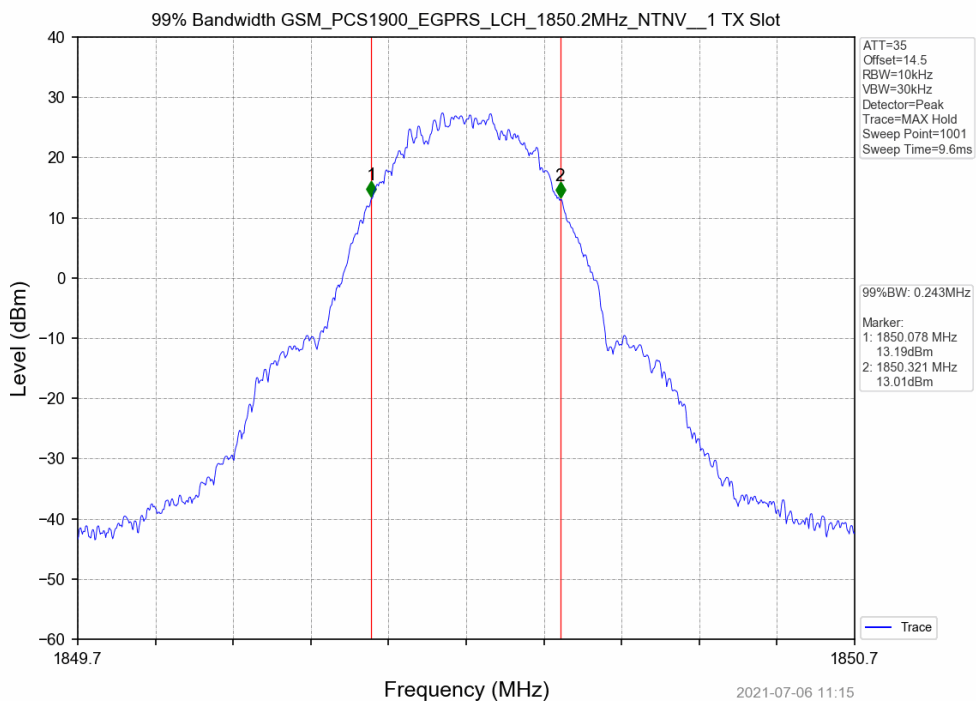
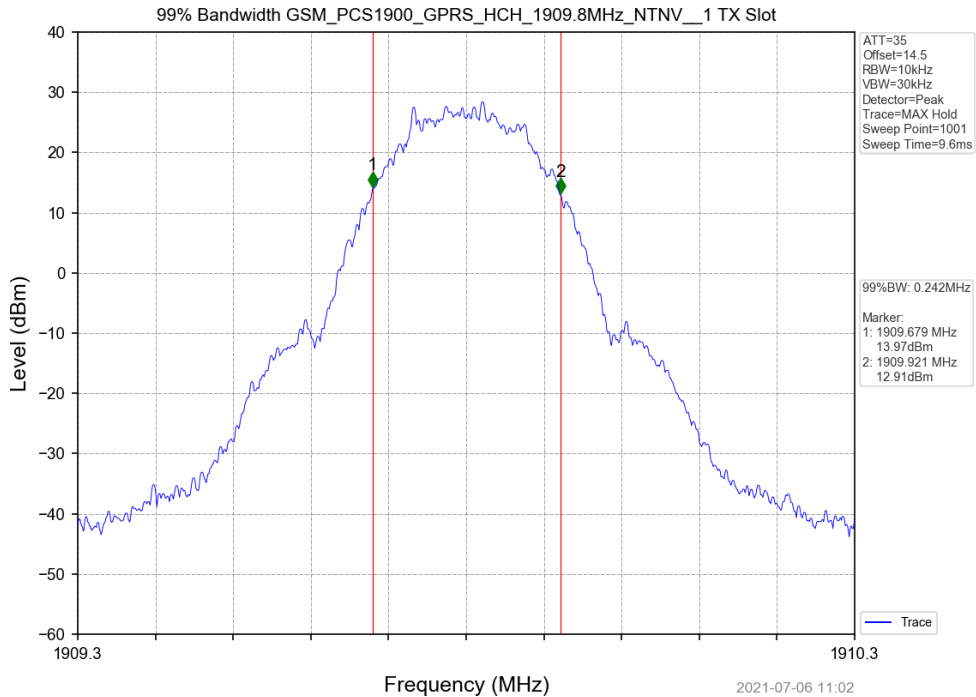
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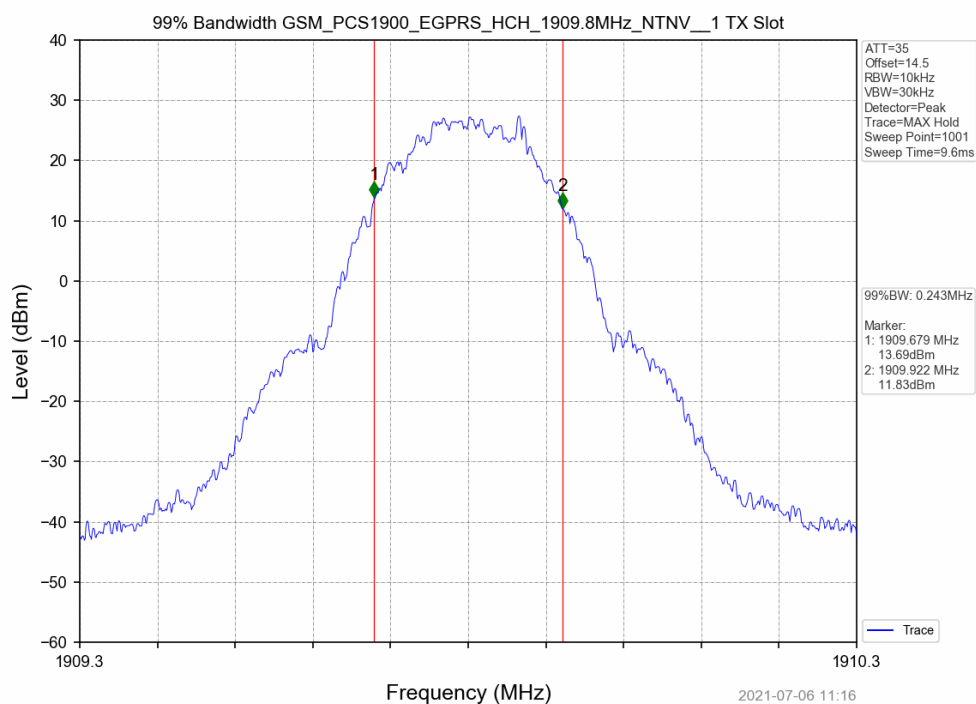
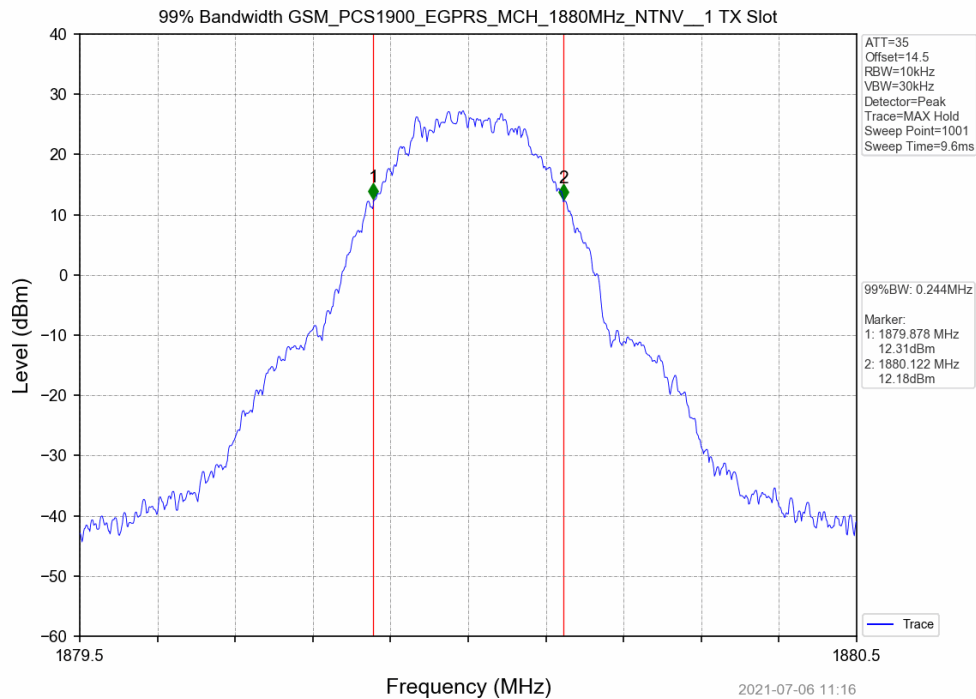
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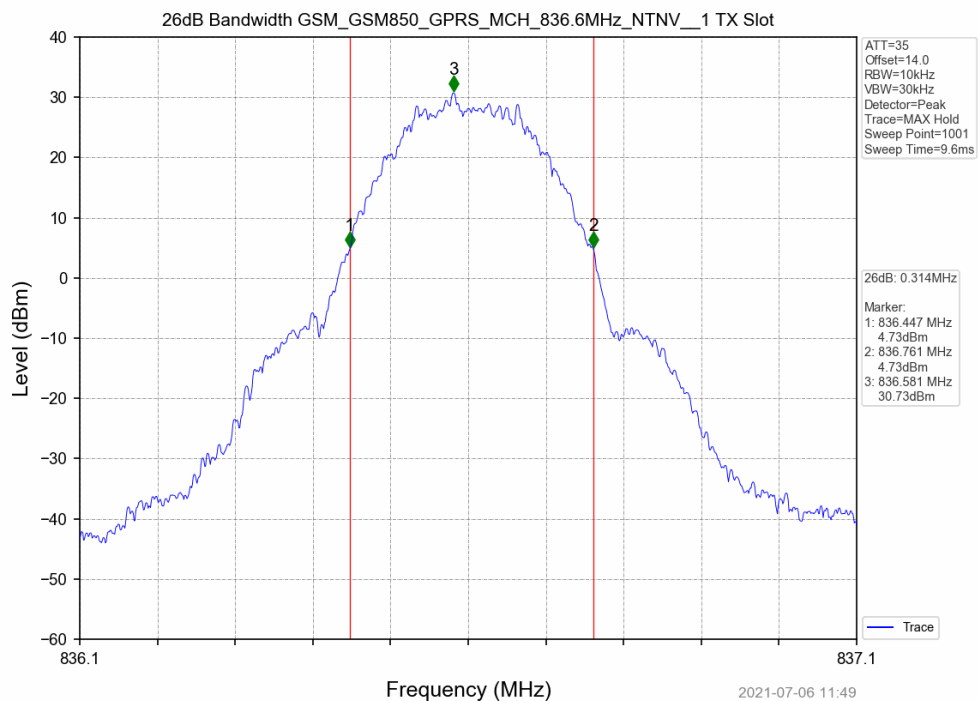
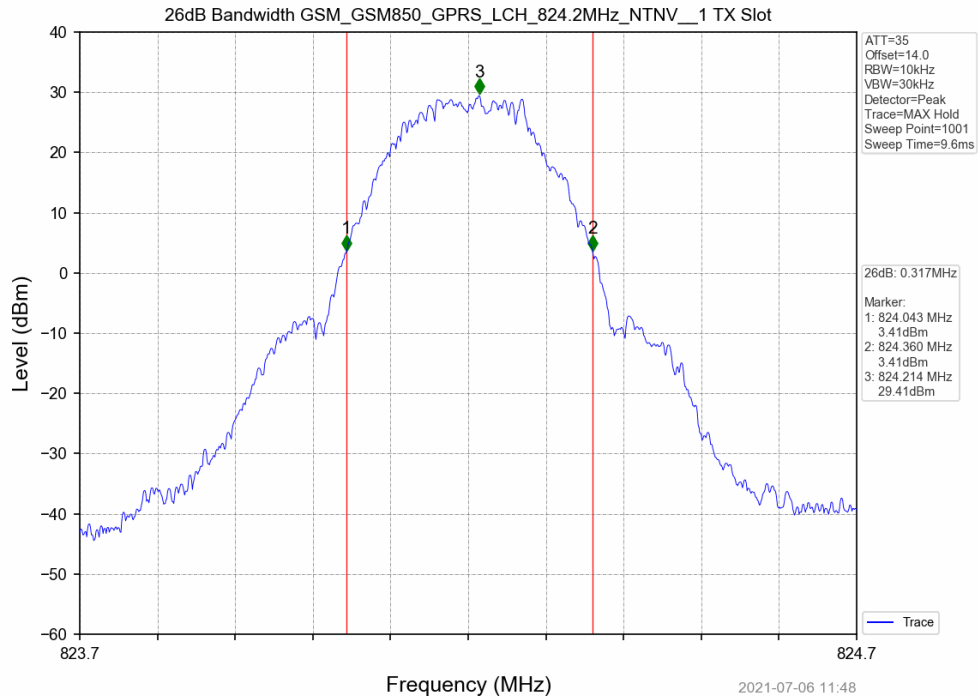
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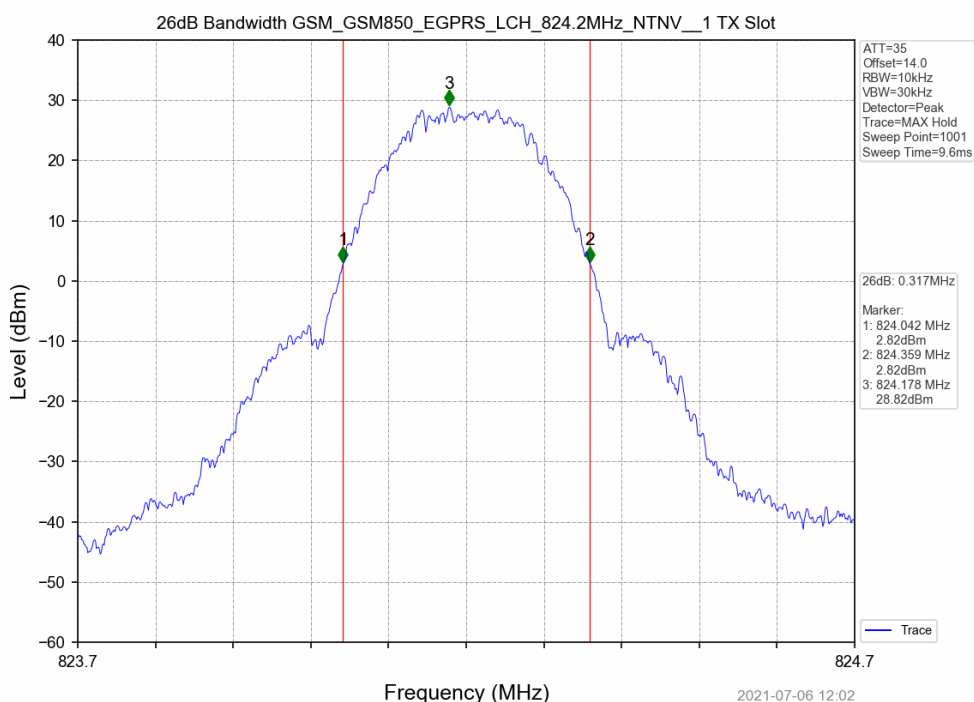
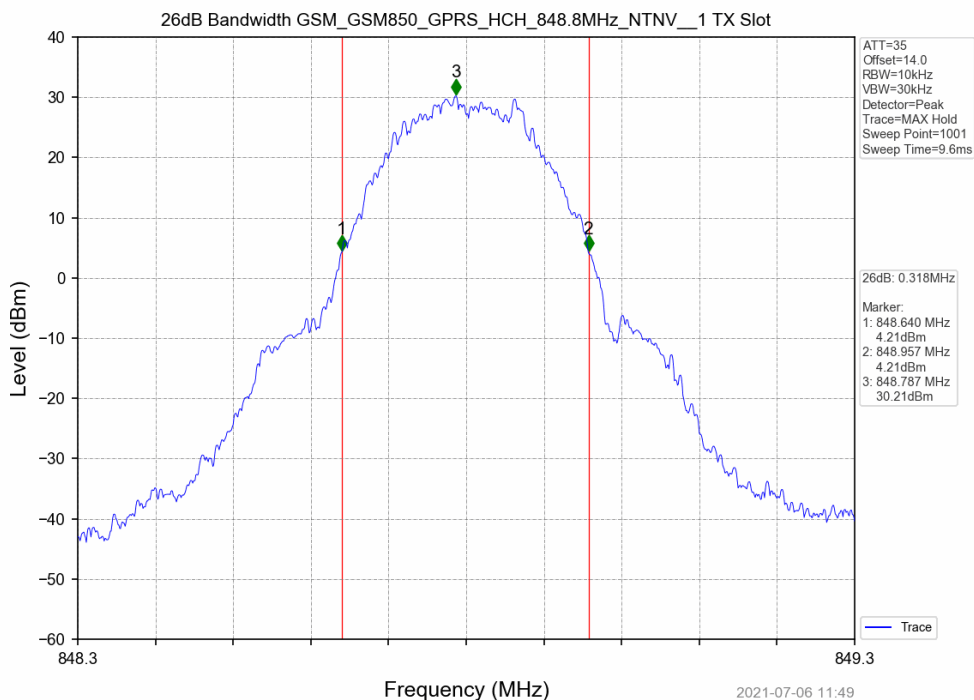
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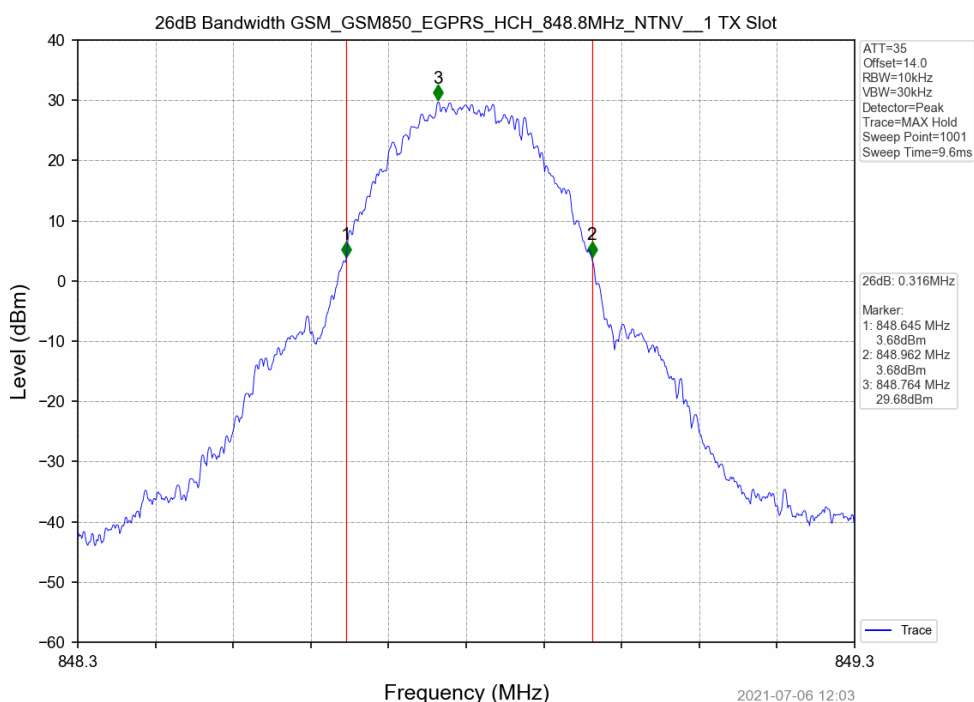
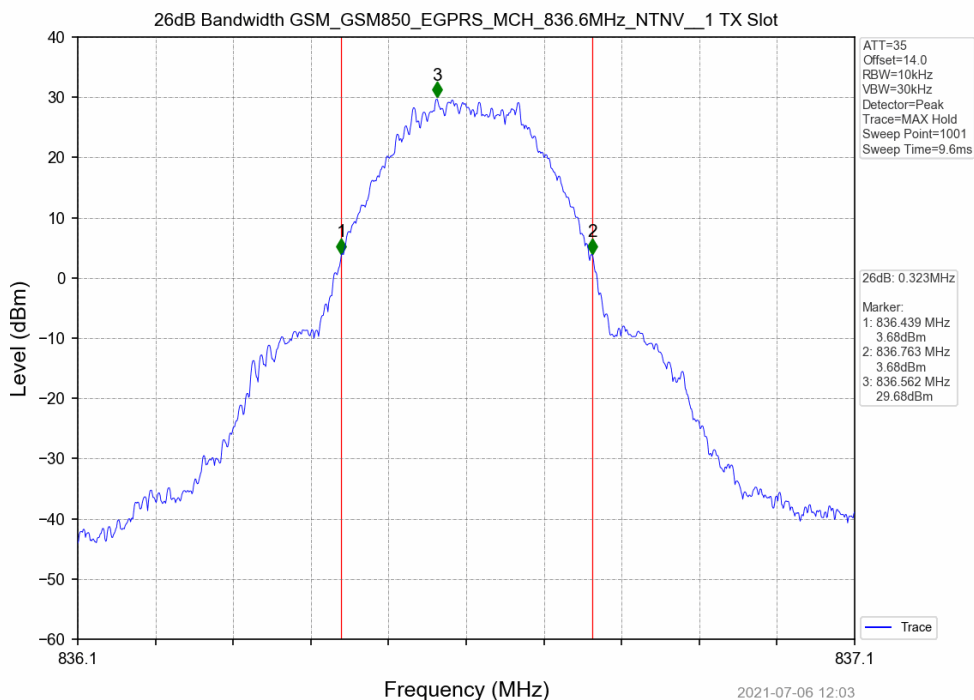


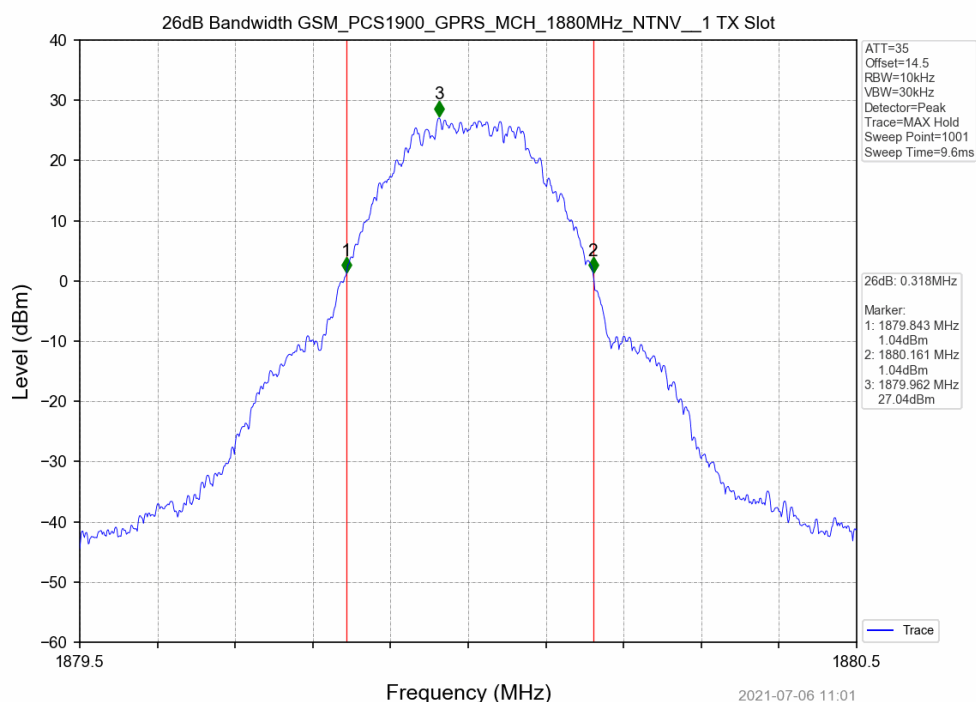
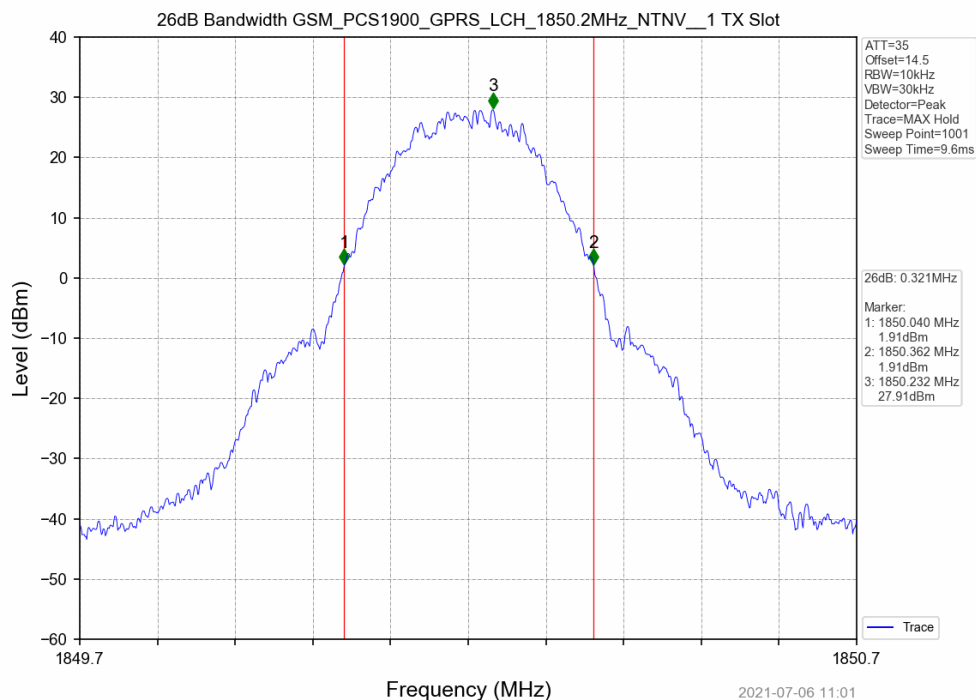
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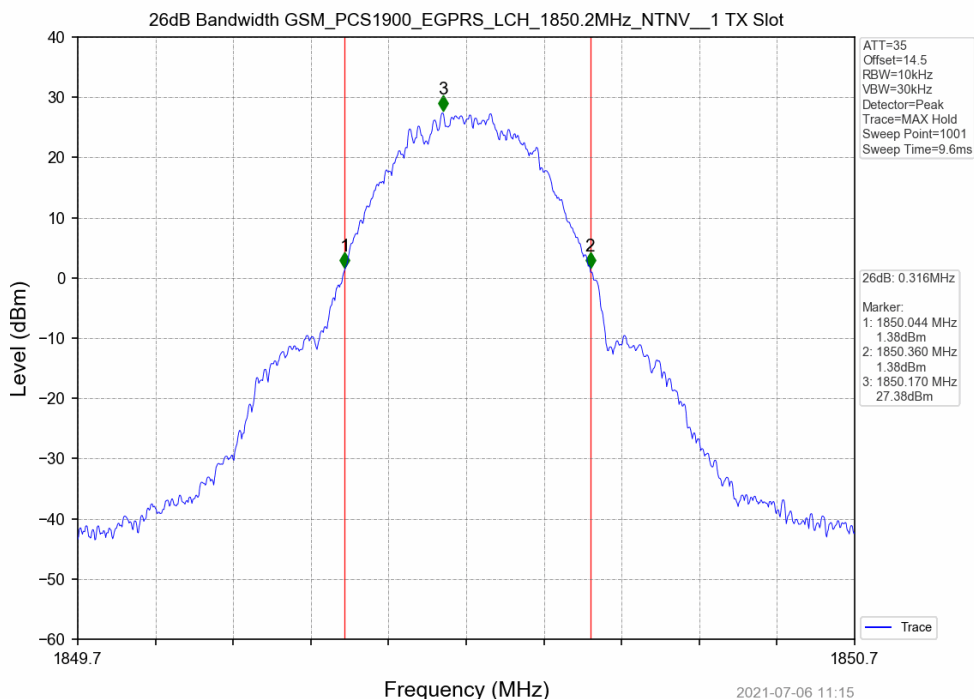
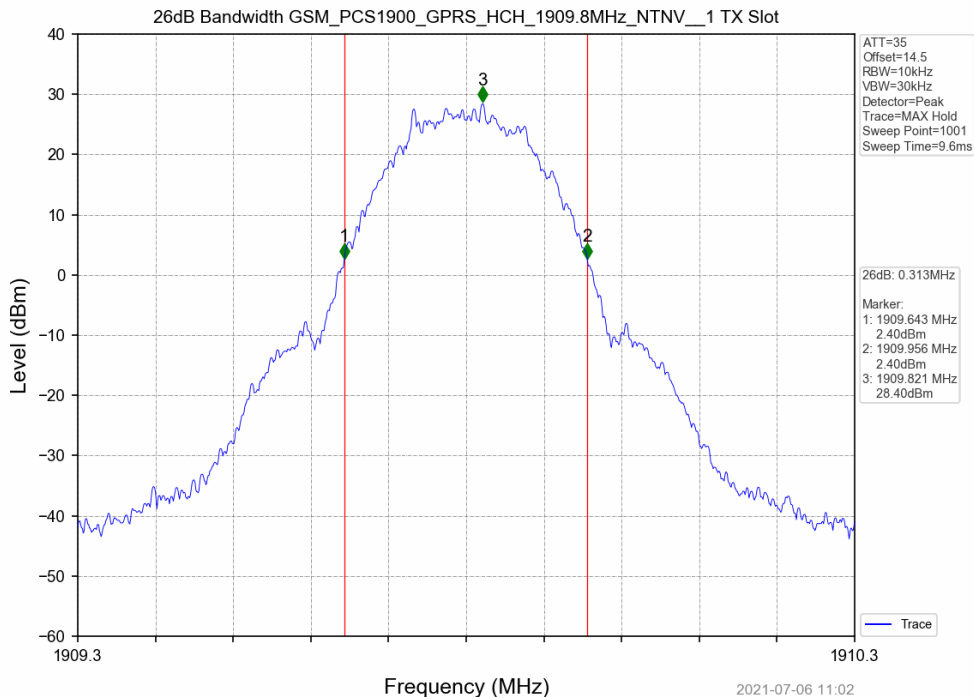




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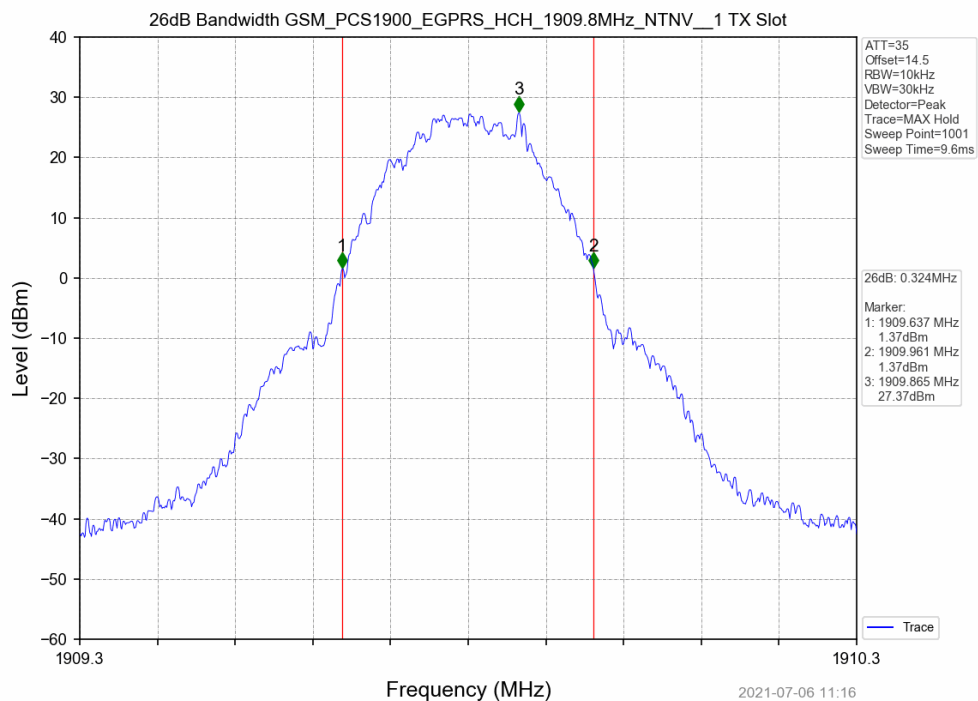
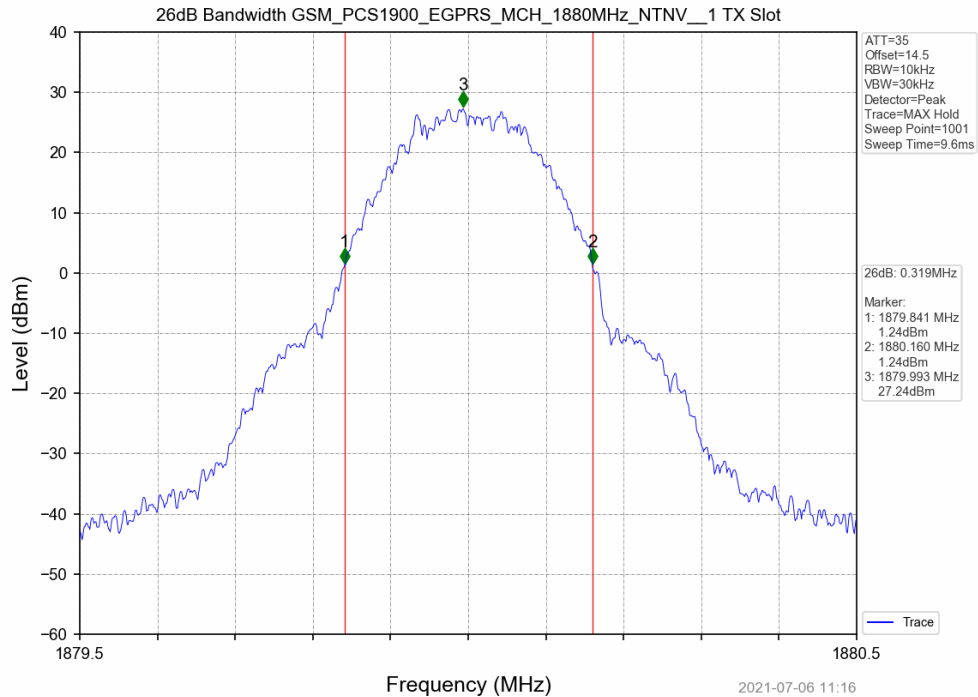
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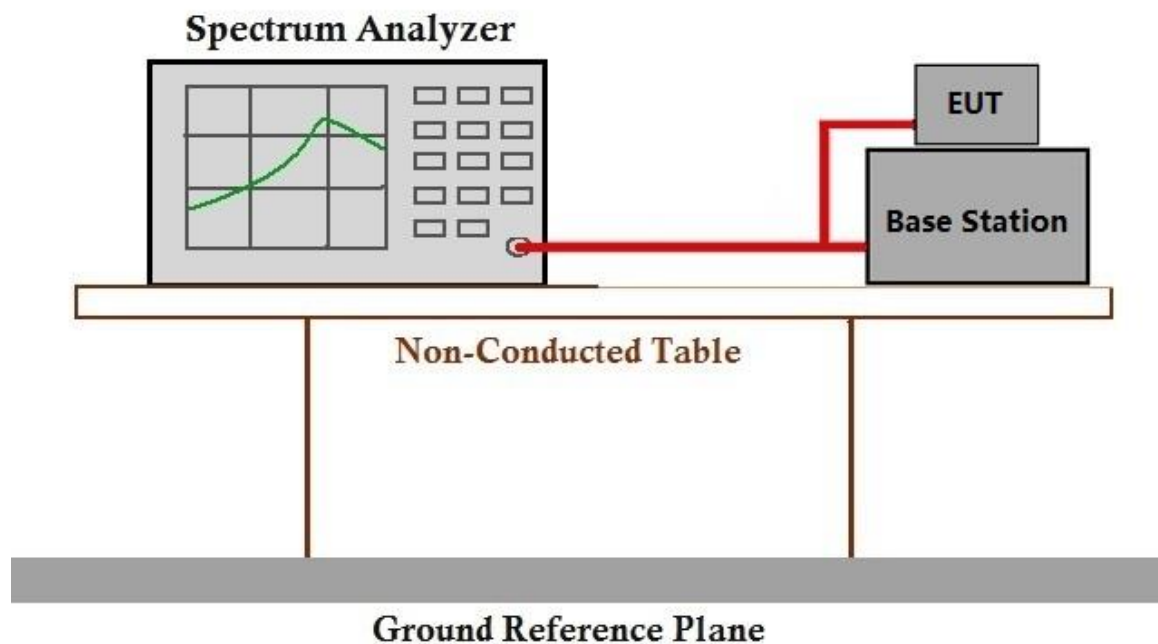
6.4 Band Edge Compliance

Test Requirement: \$2.1051, \$22.917, \$24.238
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq -13\text{dBm}/1\% \cdot \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.

6.4.1 E.U.T. Operation

Operating Environment:
Temperature: 25.9 °C Humidity: 48.9 % RH Atmospheric Pressure: 1000 mbar
Test mode: 08:TX mode_Keep the EUT in transmitting mode

6.4.2 Test Setup Diagram



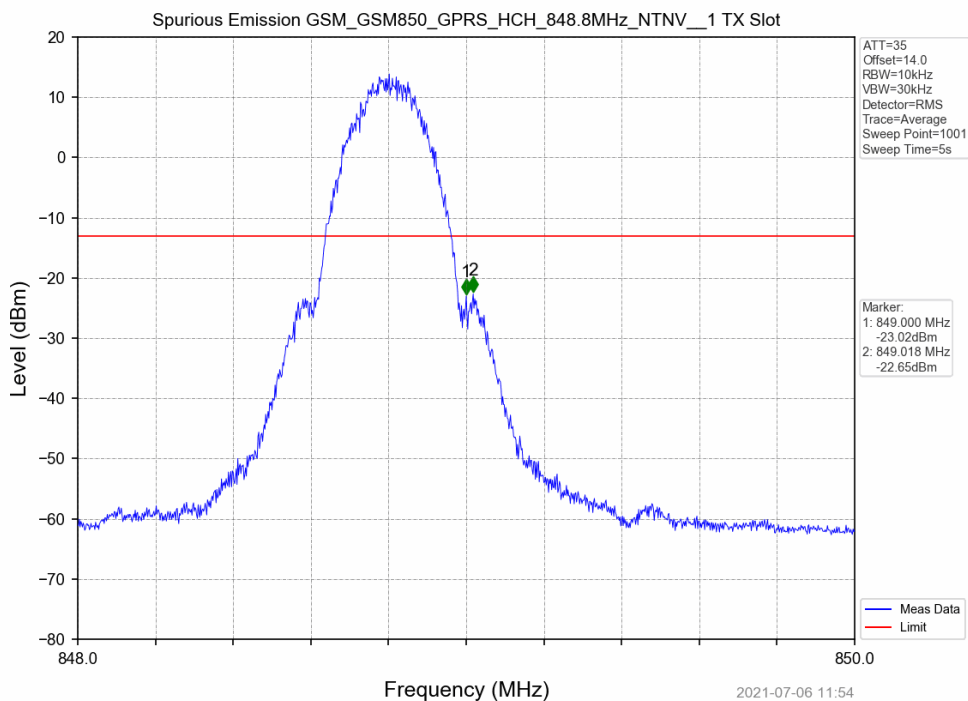
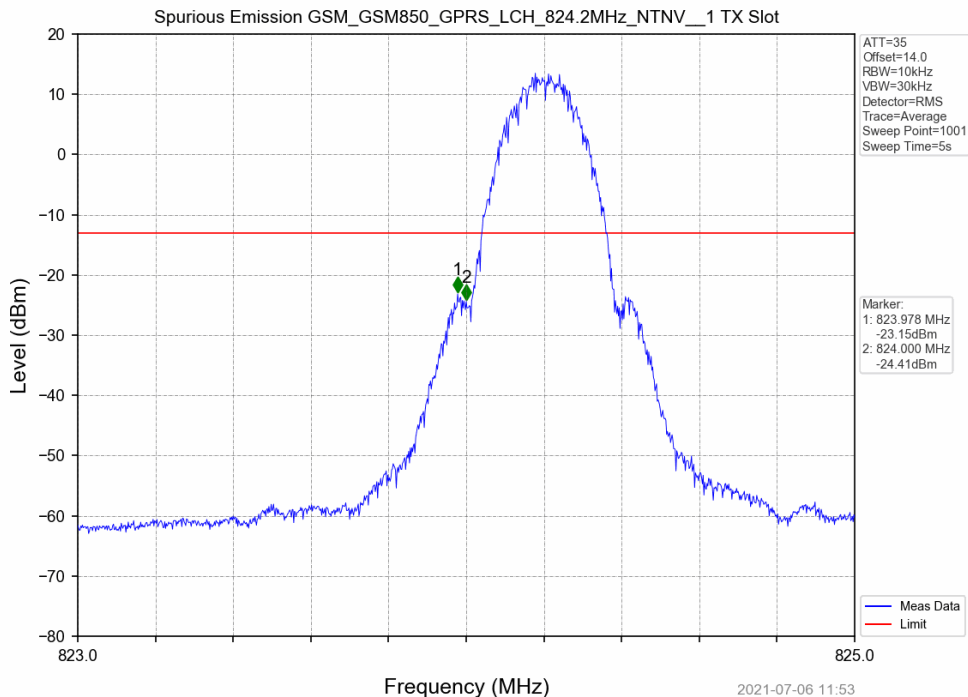
6.4.3 Measurement Data



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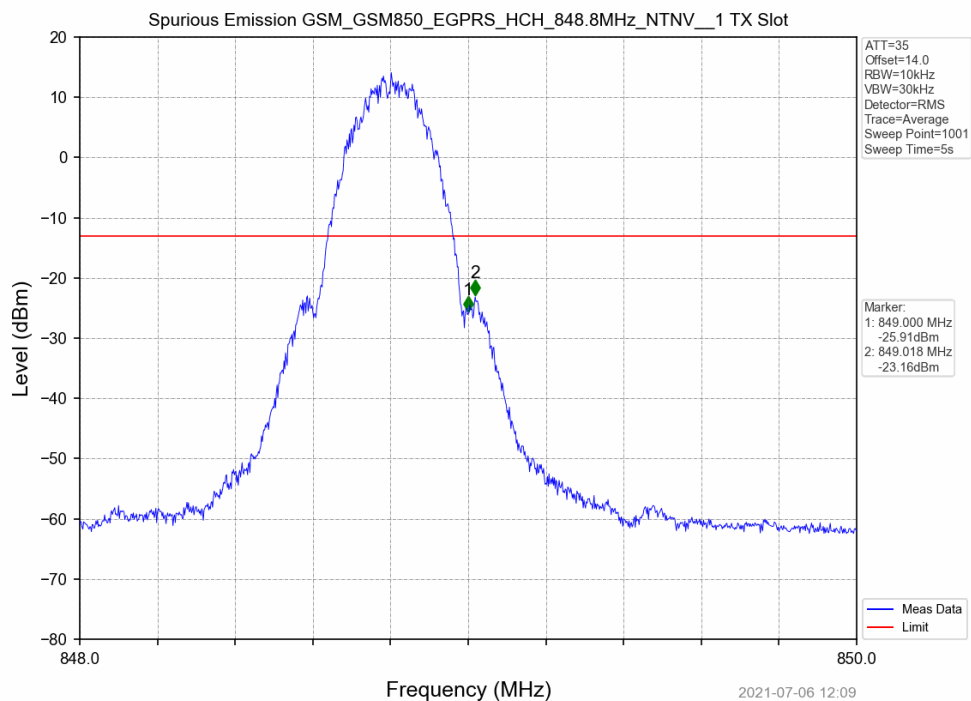
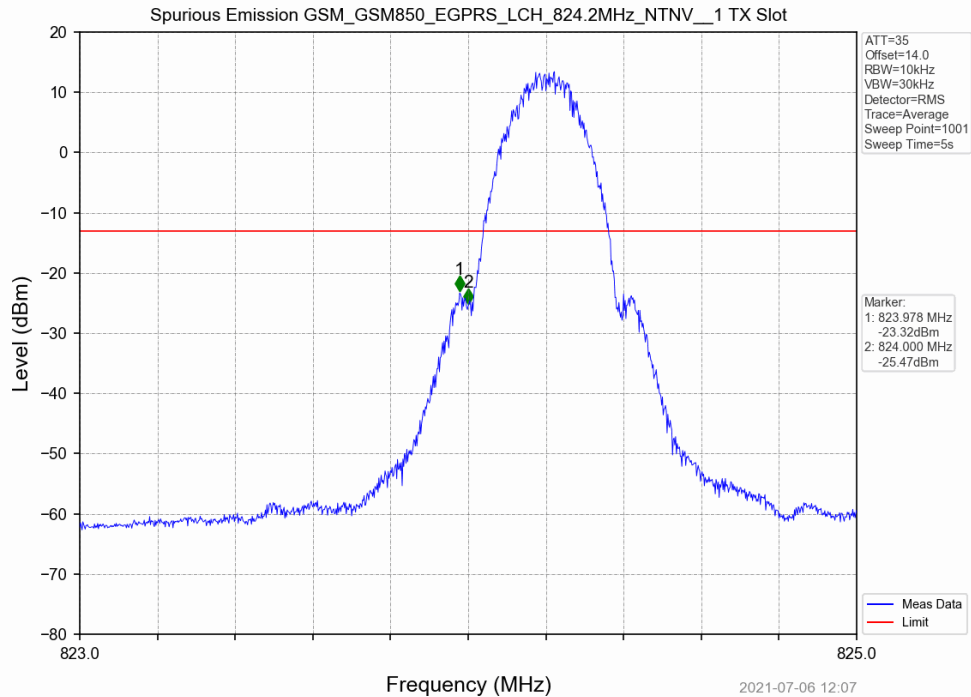
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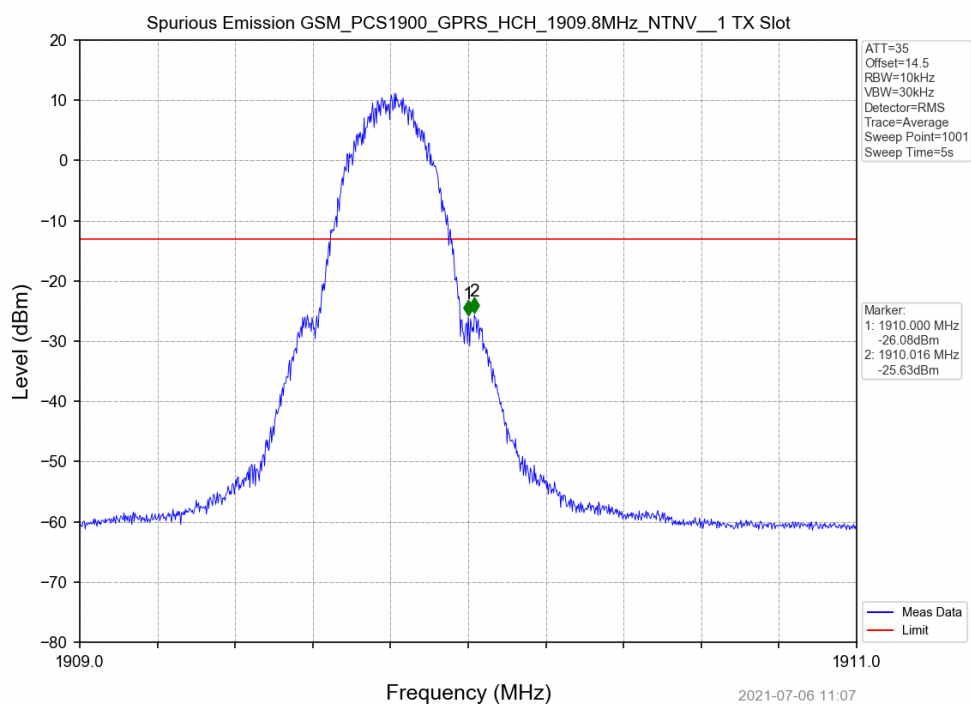
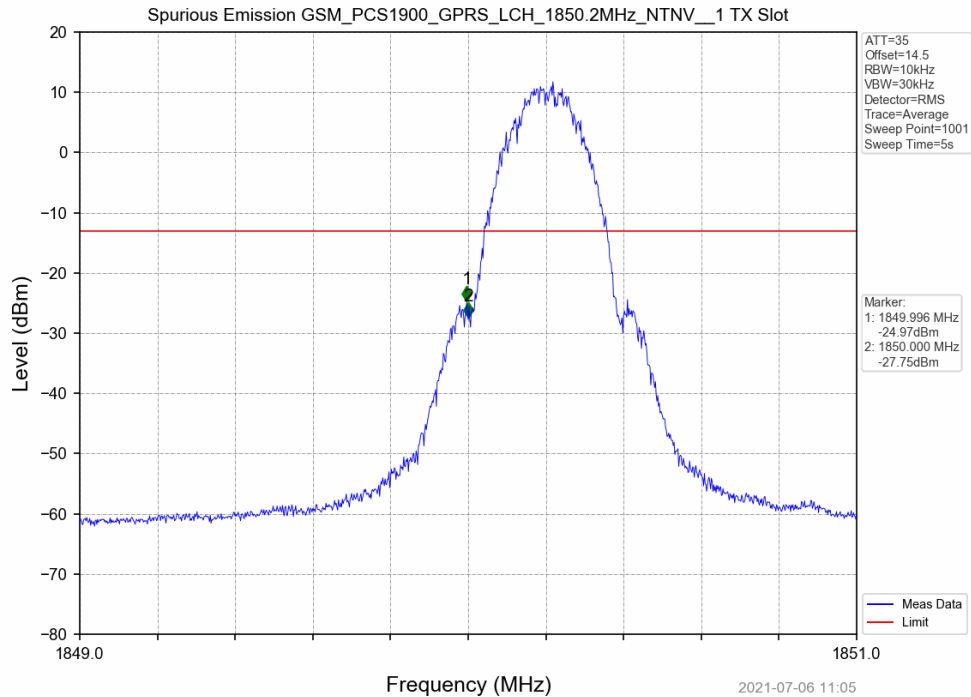
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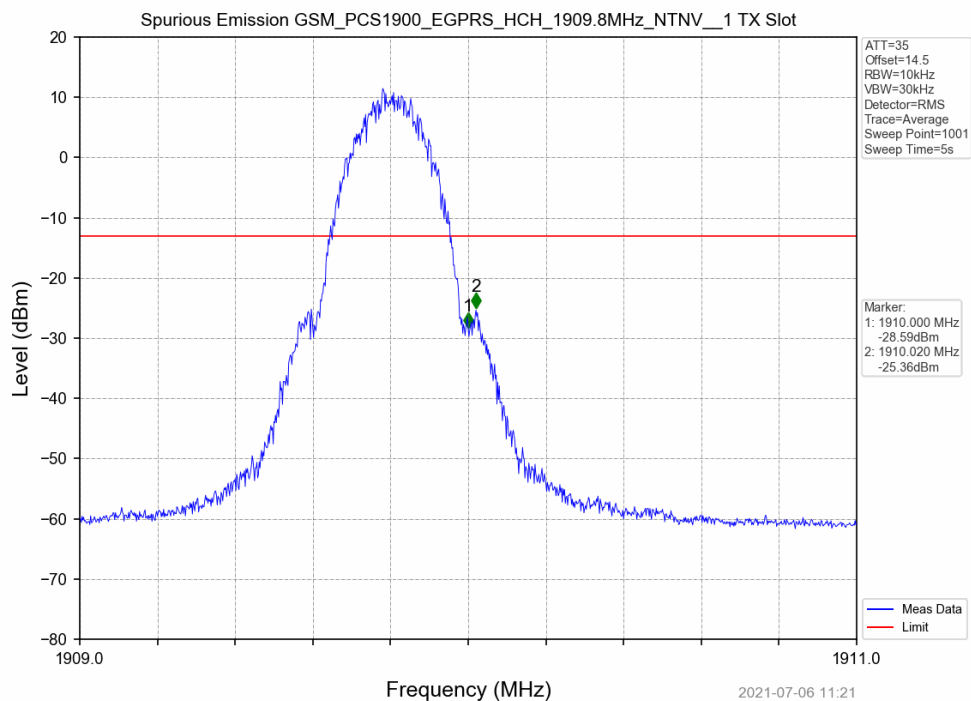
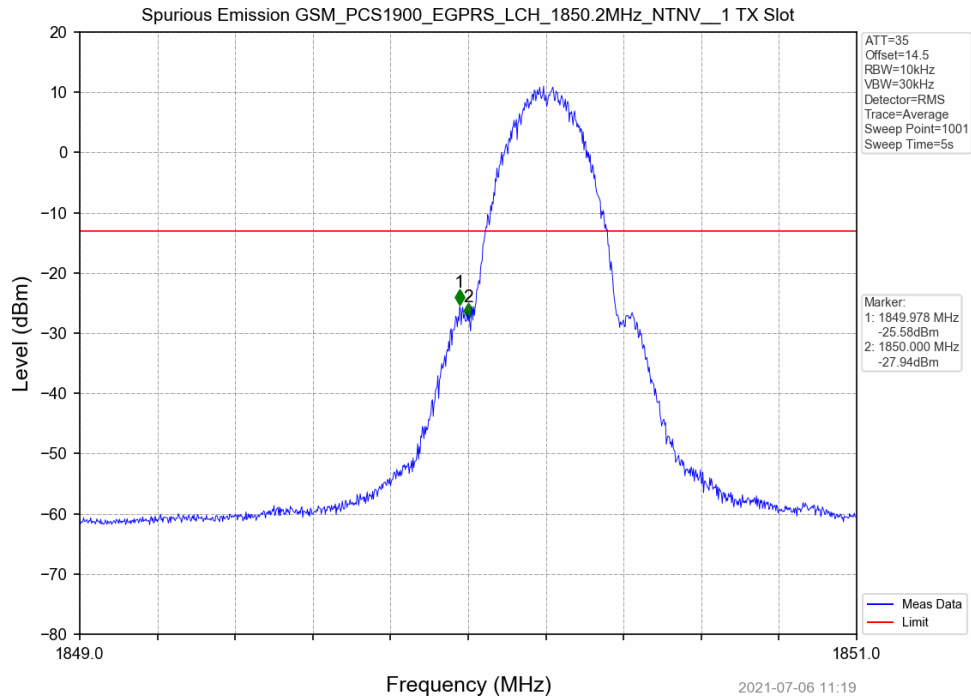
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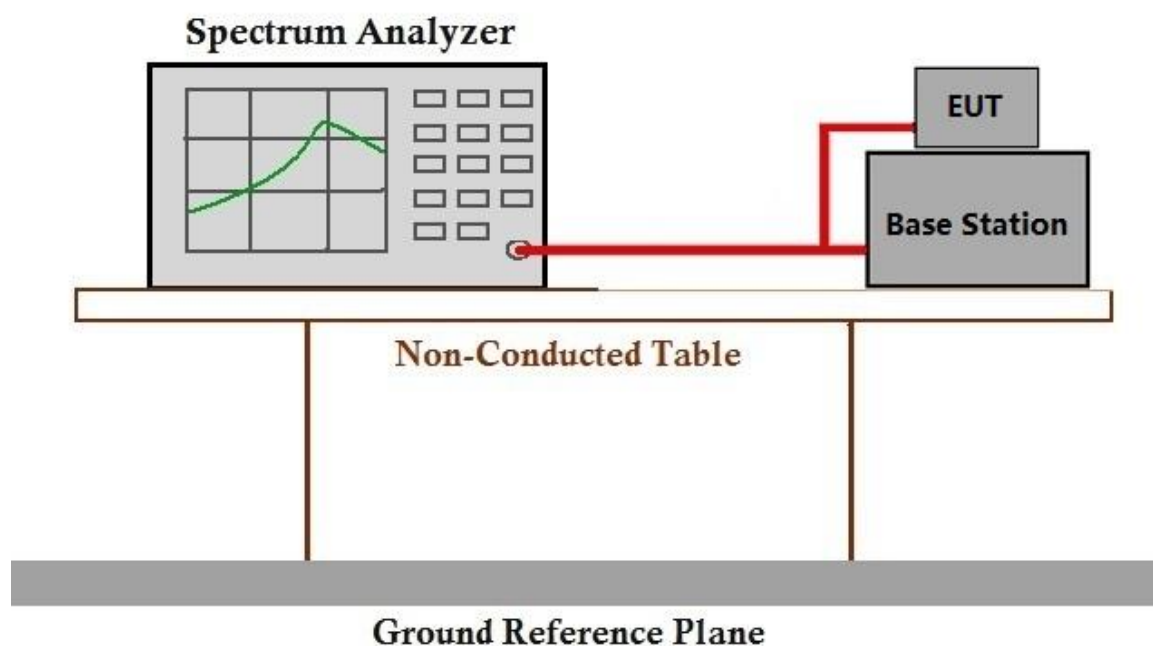
6.5 Spurious emissions at antenna terminals

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: 25.9 °C Humidity: 48.9 % RH Atmospheric Pressure: 1000 mbar
Test mode: 08:TX mode_Keep the EUT in transmitting mode

6.5.2 Test Setup Diagram



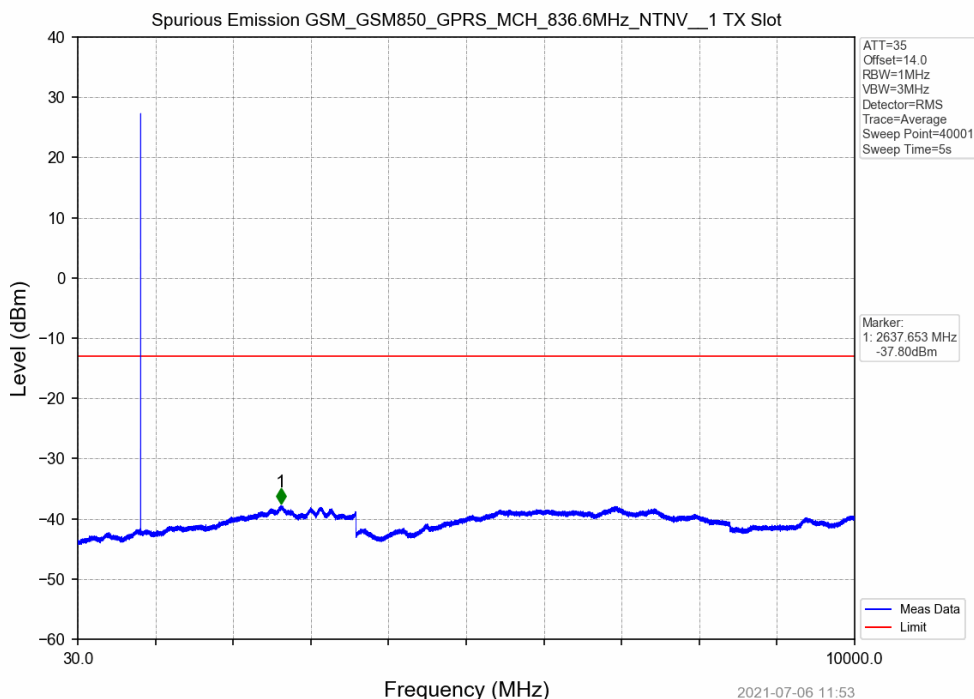
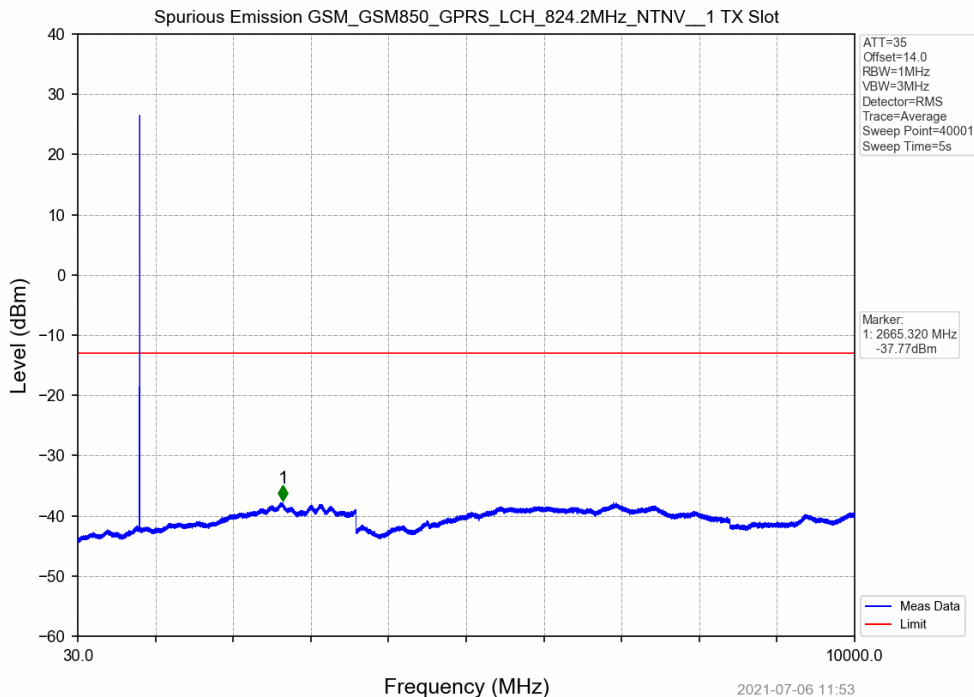
6.5.3 Measurement Data



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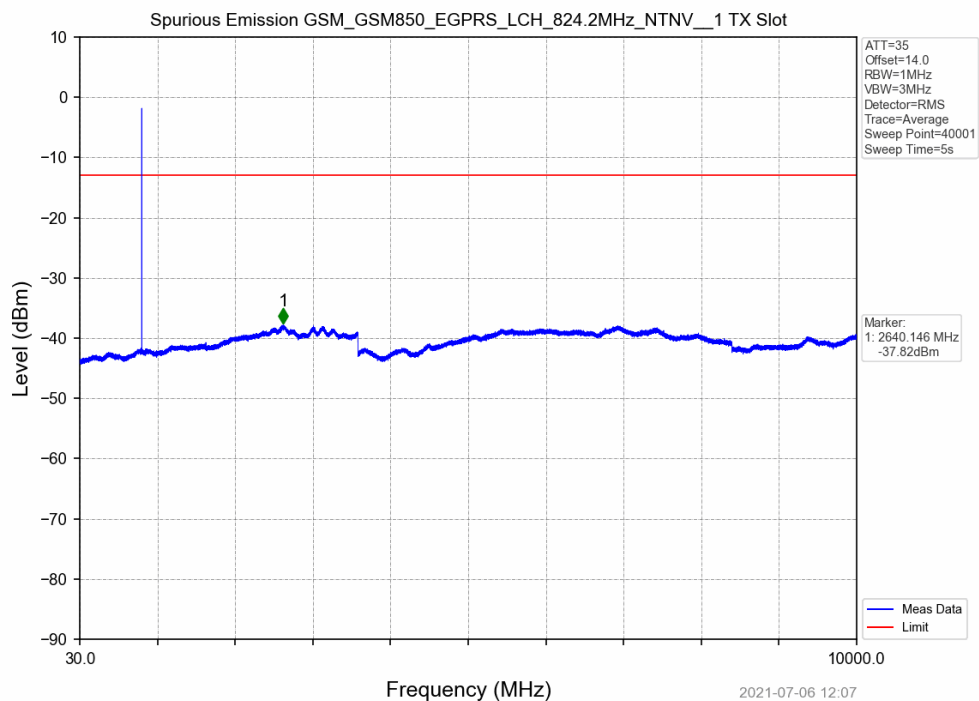
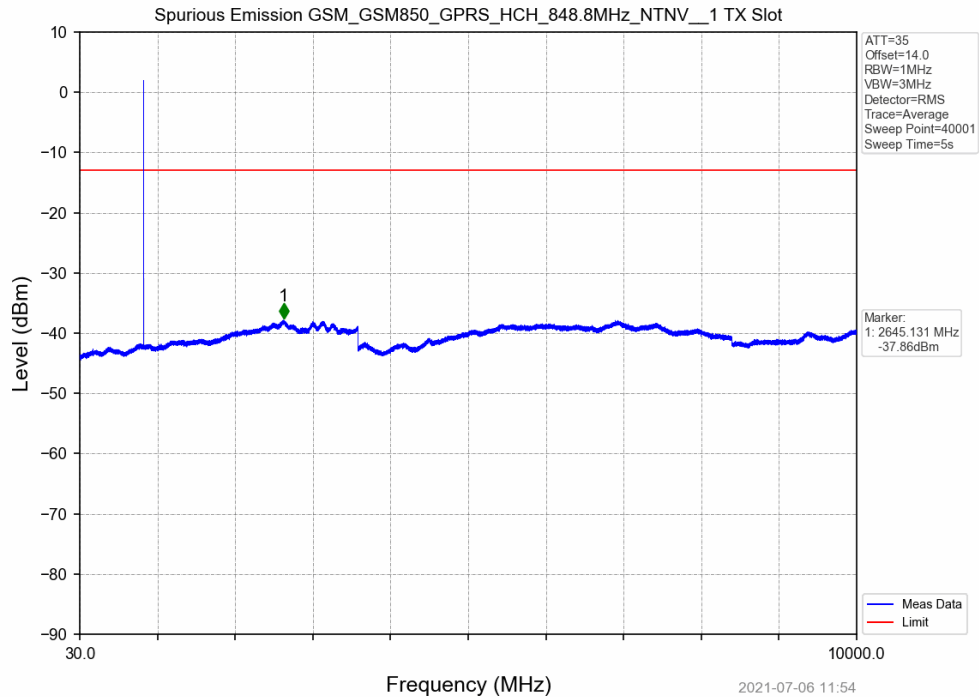
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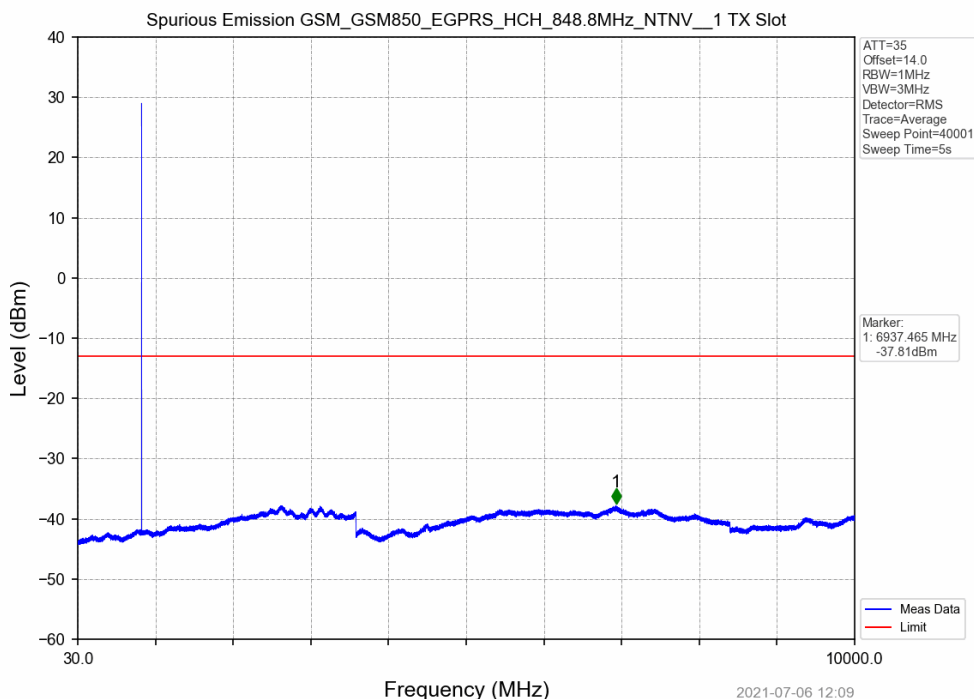
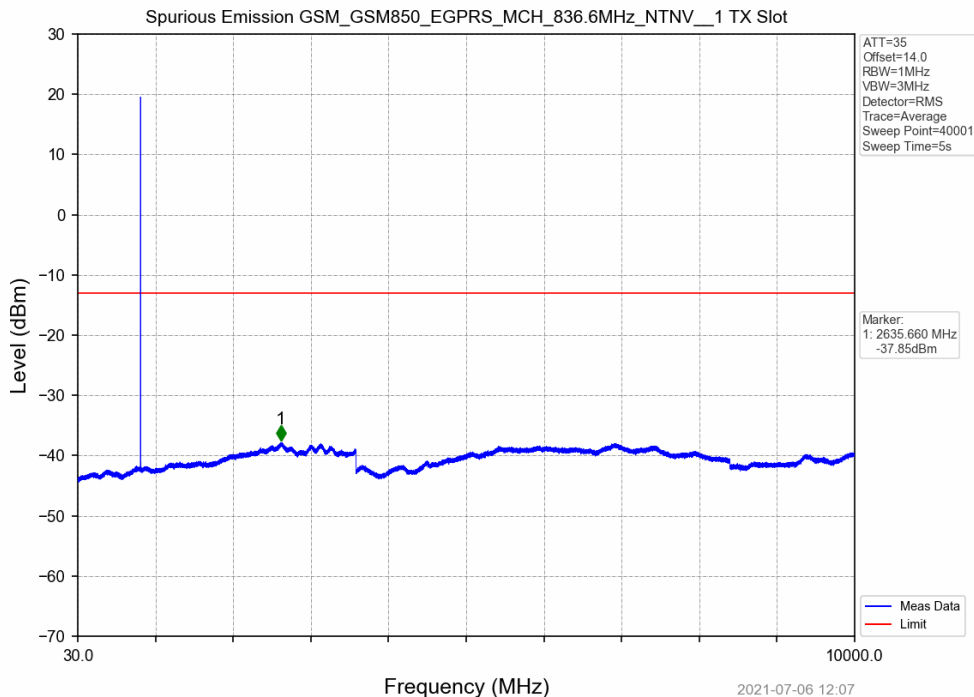
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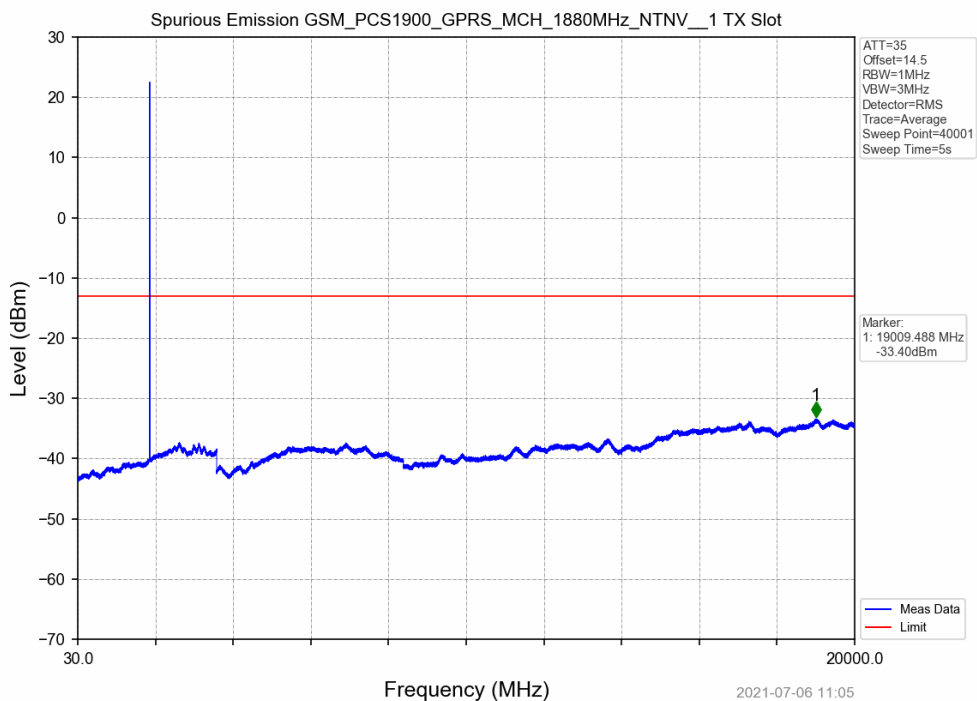
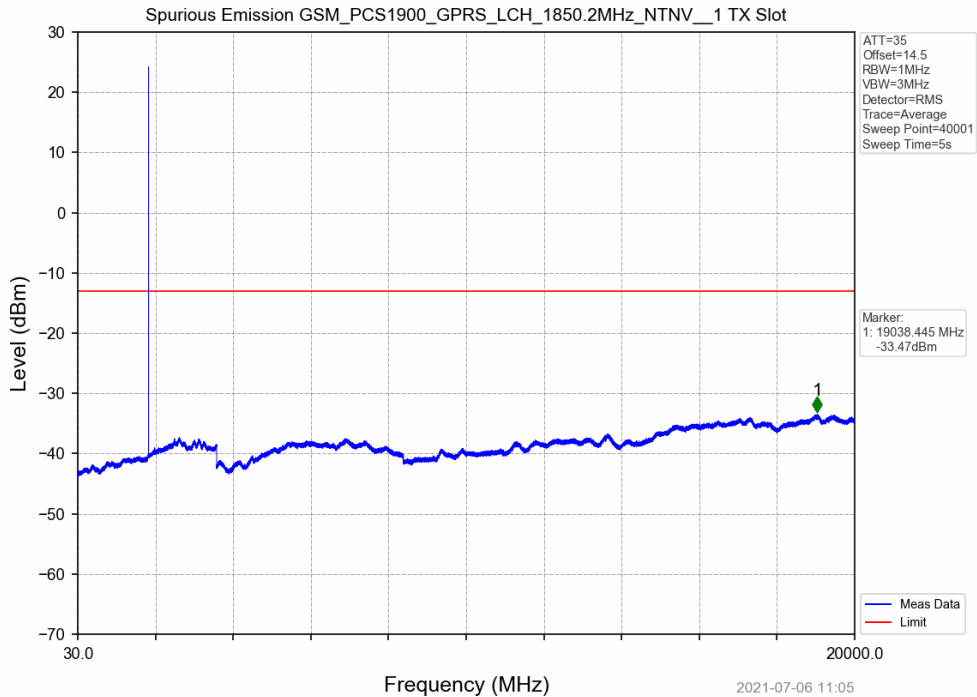


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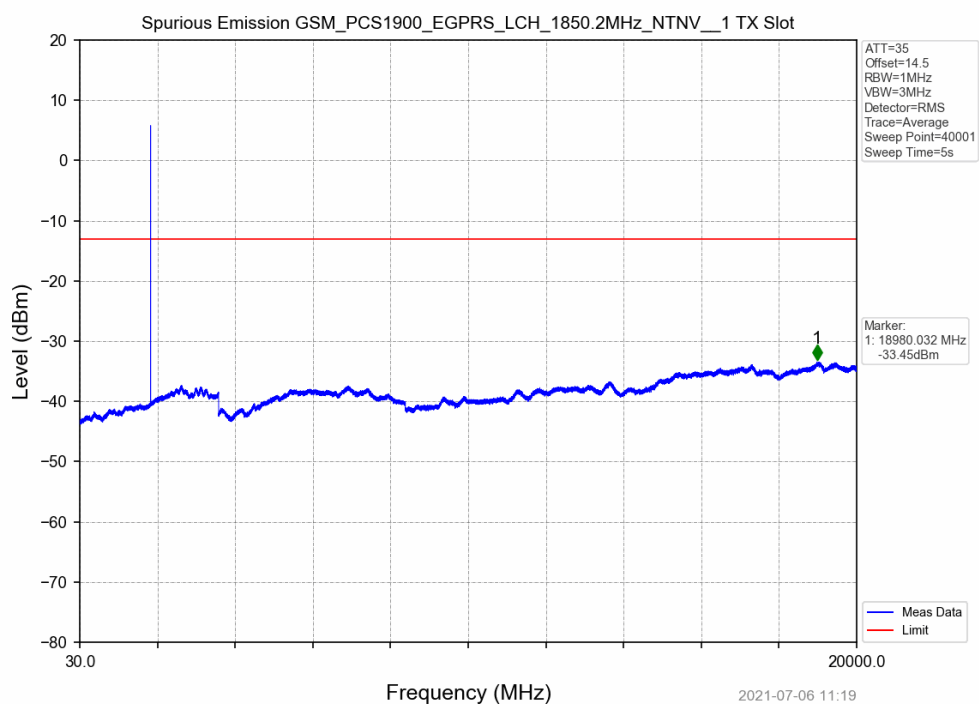
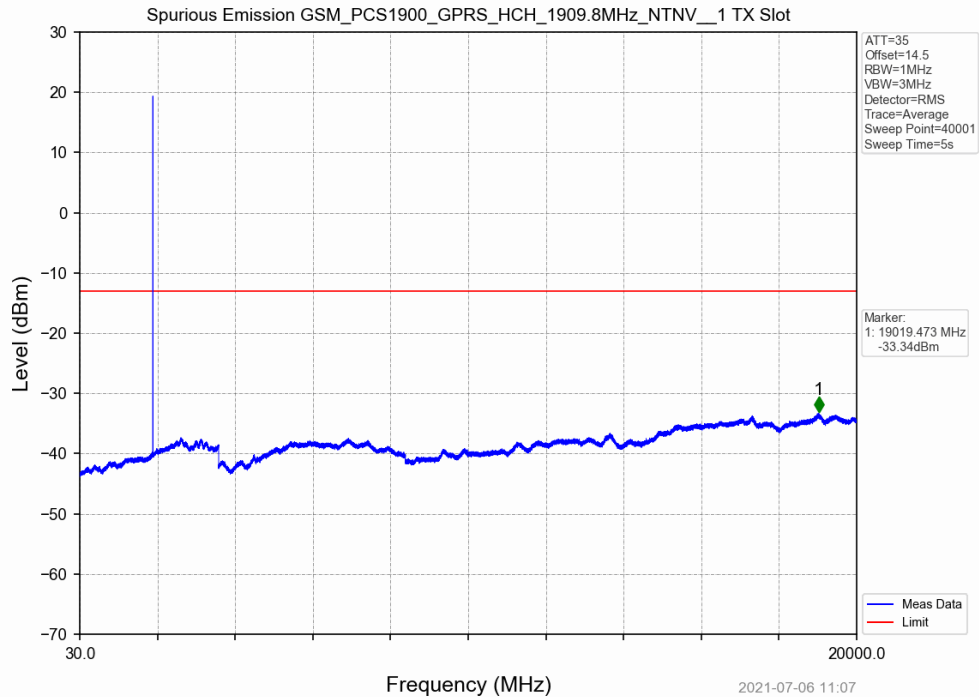
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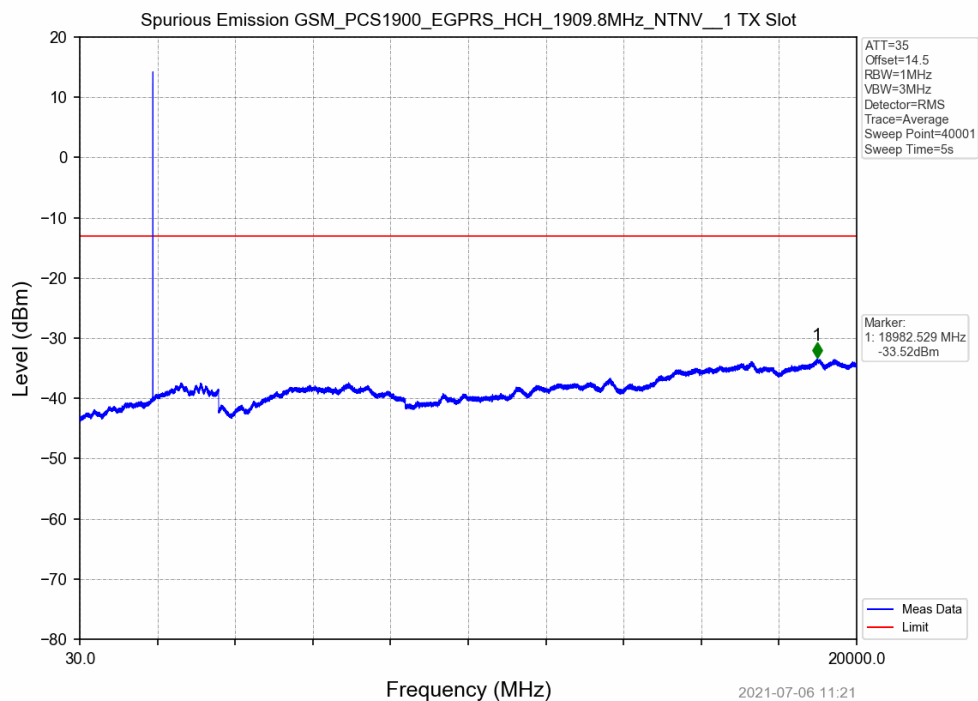
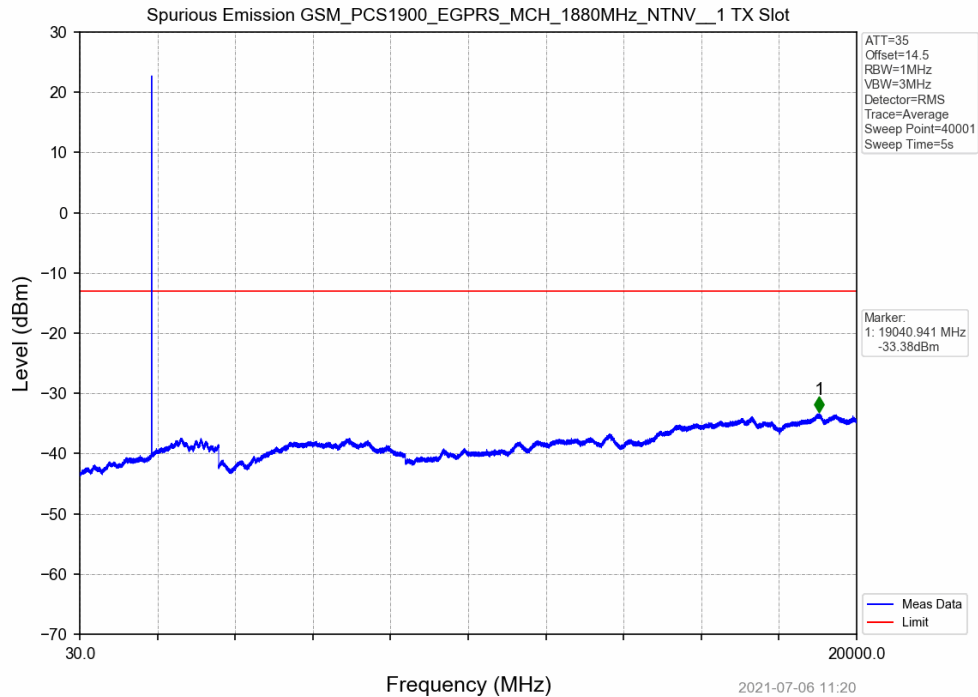
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6.6 Field strength of spurious radiation

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

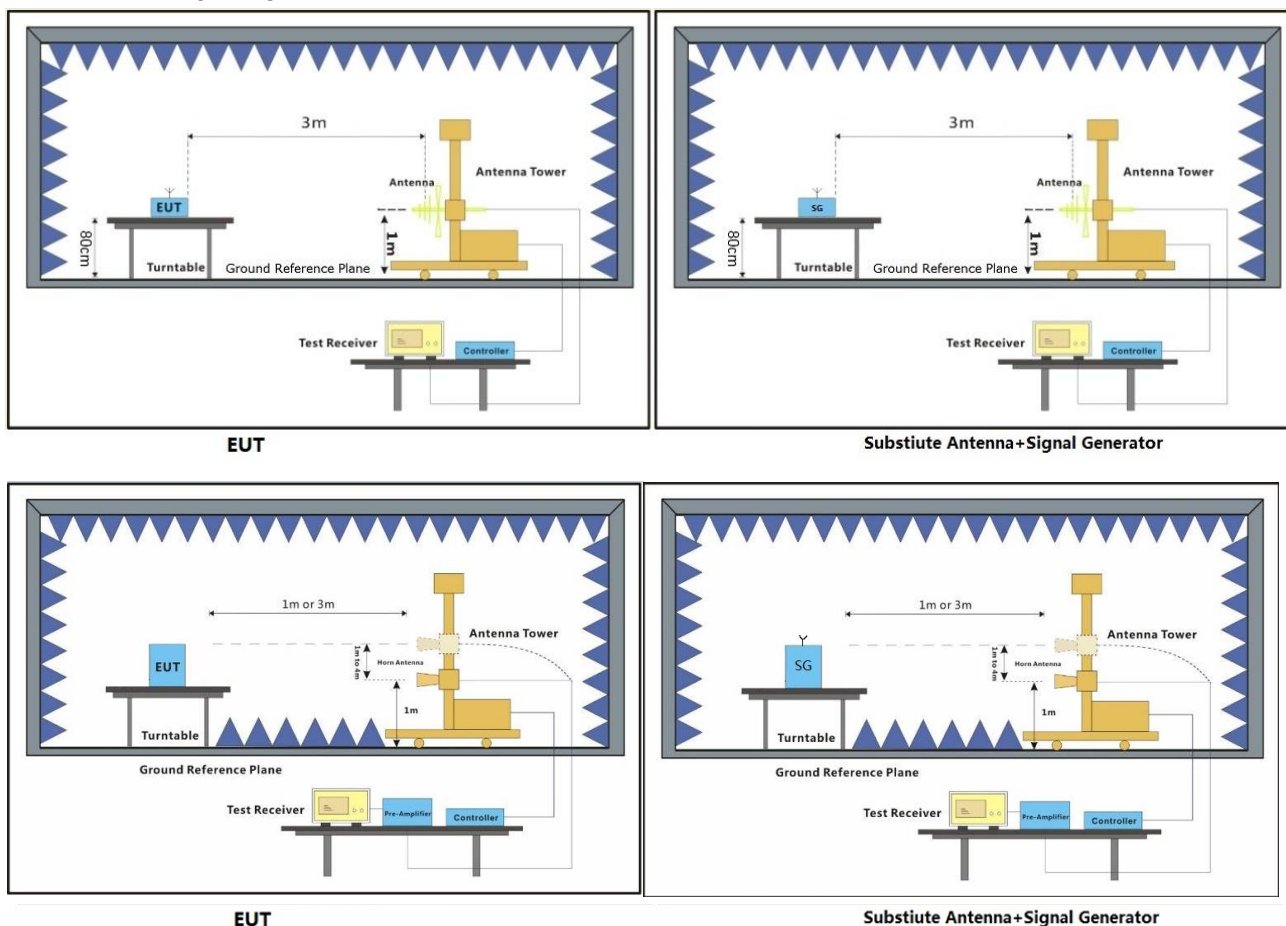
6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C Humidity: 48.9 % RH Atmospheric Pressure: 1000 mbar

Test mode: 08: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.

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
1648.4	-55.91	-13	-42.91	-61.08	3.33	8.5	Horizontal	Pass
2472.6	-51.01	-13	-38.01	-58.01	3.4	10.4	Horizontal	Pass
3296.8	-48.04	-13	-35.04	-56.55	2.99	11.5	Horizontal	Pass
1648.4	-56.24	-13	-43.24	-61.41	3.33	8.5	Vertical	Pass
2472.6	-51.98	-13	-38.98	-58.98	3.4	10.4	Vertical	Pass
3296.8	-49.04	-13	-36.04	-57.55	2.99	11.5	Vertical	Pass

GPRS850-Middle channel								
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1672.8	-56.59	-13	-43.59	-61.76	3.33	8.5	Horizontal	Pass
2509.2	-53.39	-13	-40.39	-60.78	3.21	10.6	Horizontal	Pass
3345.6	-49.47	-13	-36.47	-57.98	2.99	11.5	Horizontal	Pass
1672.8	-57.74	-13	-44.74	-62.91	3.33	8.5	Vertical	Pass
2509.2	-52.31	-13	-39.31	-59.7	3.21	10.6	Vertical	Pass
3345.6	-49.64	-13	-36.64	-58.15	2.99	11.5	Vertical	Pass

GPRS850-High channel								
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1697.6	-56.99	-13	-43.99	-62.16	3.33	8.5	Horizontal	Pass
2546.4	-54.22	-13	-41.22	-61.61	3.21	10.6	Horizontal	Pass
3395.2	-49.31	-13	-36.31	-57.82	2.99	11.5	Horizontal	Pass
1697.6	-55.95	-13	-42.95	-61.12	3.33	8.5	Vertical	Pass
2546.4	-52.9	-13	-39.9	-60.29	3.21	10.6	Vertical	Pass
3395.2	-49.13	-13	-36.13	-57.64	2.99	11.5	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
3700.4	-50.79	-13	-37.79	-60.47	2.92	12.6	Horizontal	Pass
5550.6	-46.99	-13	-33.99	-56.94	3.15	13.1	Horizontal	Pass
7400.8	-45.28	-13	-32.28	-53.58	3.4	11.7	Horizontal	Pass
3700.4	-51.34	-13	-38.34	-61.02	2.92	12.6	Vertical	Pass
5550.6	-47.52	-13	-34.52	-57.47	3.15	13.1	Vertical	Pass
7400.8	-45.27	-13	-32.27	-53.57	3.4	11.7	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	-52.01	-13	-39.01	-61.69	2.92	12.6	Horizontal	Pass
5640	-47.86	-13	-34.86	-57.81	3.15	13.1	Horizontal	Pass
7520	-45.46	-13	-32.46	-53.01	3.85	11.4	Horizontal	Pass
3760	-50.72	-13	-37.72	-60.4	2.92	12.6	Vertical	Pass
5640	-47.45	-13	-34.45	-57.4	3.15	13.1	Vertical	Pass
7520	-45.01	-13	-32.01	-52.56	3.85	11.4	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
3819.6	-50.4	-13	-37.4	-60.08	2.92	12.6	Horizontal	Pass
5729.4	-46.82	-13	-33.82	-56.77	3.15	13.1	Horizontal	Pass
7639.2	-45.17	-13	-32.17	-52.72	3.85	11.4	Horizontal	Pass
3819.6	-49.71	-13	-36.71	-59.39	2.92	12.6	Vertical	Pass
5729.4	-47.18	-13	-34.18	-57.13	3.15	13.1	Vertical	Pass
7639.2	-45.1	-13	-32.1	-52.65	3.85	11.4	Vertical	Pass

Note:

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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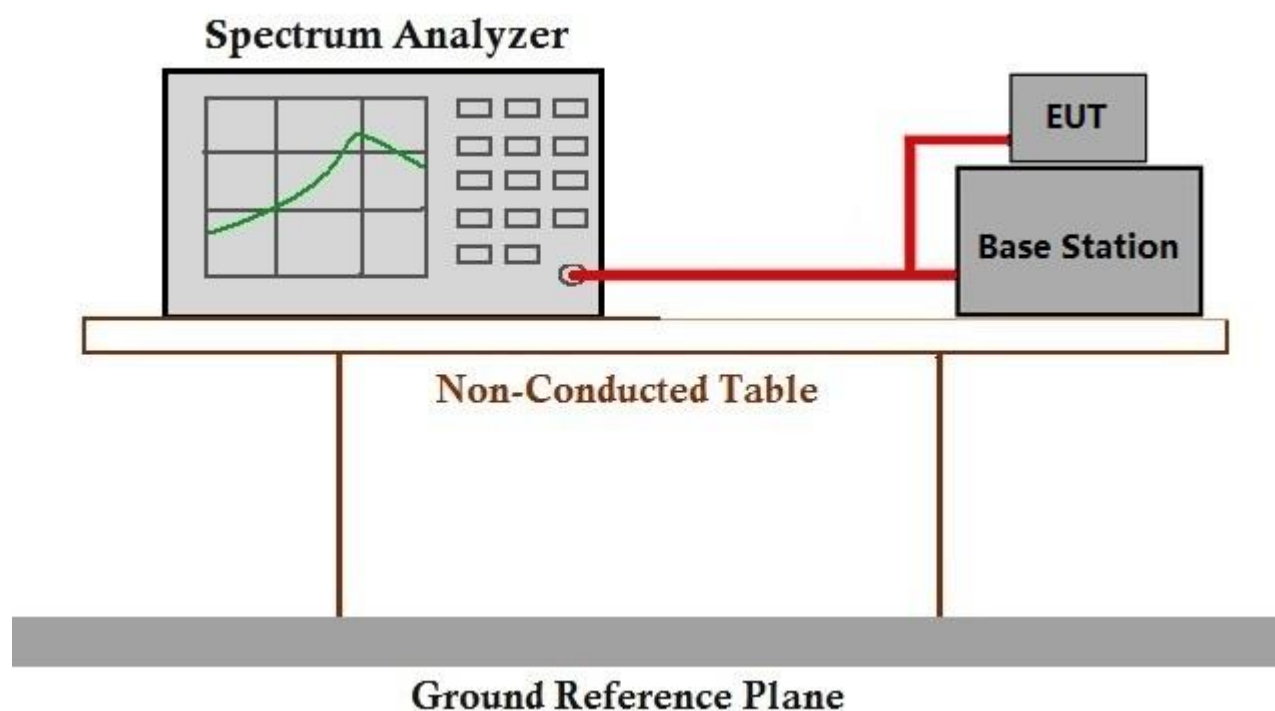
6.7 Frequency stability

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: 25.9 °C Humidity: 48.9 % RH Atmospheric Pressure: 1000 mbar
Test mode: 08:TX mode_Keep the EUT in transmitting mode

6.7.2 Test Setup Diagram



6.7.3 Measurement Data



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EMC-TRF-01 Rev 1.0

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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	29.7353	29.7676	31.8984	0.0361	0.0356	0.0376	2.50	PASS
		NV	31.0590	32.9638	31.9953	0.0377	0.0394	0.0377	2.50	PASS
		HV	31.6724	31.3173	30.4778	0.0384	0.0374	0.0359	2.50	PASS
GPRS	NT	LV	28.6053	29.2833	30.4133	0.0347	0.0350	0.0358	2.50	PASS
		NV	27.7013	29.3156	29.8644	0.0336	0.0350	0.0352	2.50	PASS
		HV	28.0564	29.5416	30.1227	0.0340	0.0353	0.0355	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	31.7370	30.7038	33.0284	0.0385	0.0367	0.0389	2.50	PASS
		-20.00	31.7047	31.1881	33.0930	0.0385	0.0373	0.0390	2.50	PASS
		-10.00	32.1890	32.4473	32.2213	0.0391	0.0388	0.0380	2.50	PASS
		0.00	32.6733	30.6070	30.3487	0.0396	0.0366	0.0358	2.50	PASS
		10.00	31.6724	30.6070	30.5747	0.0384	0.0366	0.0360	2.50	PASS
		20.00	32.5118	32.1244	32.1567	0.0394	0.0384	0.0379	2.50	PASS
		30.00	30.3810	32.0276	31.5756	0.0369	0.0383	0.0372	2.50	PASS
		40.00	30.9621	32.0921	31.7693	0.0376	0.0384	0.0374	2.50	PASS
		50.00	30.2196	31.0267	30.9944	0.0367	0.0371	0.0365	2.50	PASS
GPRS	NV	-30.00	27.9596	29.6384	29.7030	0.0339	0.0354	0.0350	2.50	PASS
		-20.00	29.2510	28.9604	30.5747	0.0355	0.0346	0.0360	2.50	PASS
		-10.00	28.5407	28.9604	30.5747	0.0346	0.0346	0.0360	2.50	PASS
		0.00	29.3478	28.4761	30.8330	0.0356	0.0340	0.0363	2.50	PASS
		10.00	28.4116	28.4116	30.7361	0.0345	0.0340	0.0362	2.50	PASS
		20.00	29.2510	28.8313	31.4141	0.0355	0.0345	0.0370	2.50	PASS
		30.00	28.5407	28.6053	31.6724	0.0346	0.0342	0.0373	2.50	PASS
		40.00	29.5416	29.0896	31.8661	0.0358	0.0348	0.0375	2.50	PASS
		50.00	28.0564	29.5416	30.1227	0.0340	0.0353	0.0355	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	20.2432	25.1830	16.9178	0.0109	0.0134	0.0089	2.50	PASS
		NV	25.9355	22.4387	16.4981	0.0122	0.0119	0.0086	2.50	PASS
		HV	24.5050	22.1481	18.2415	0.0132	0.0118	0.0096	2.50	PASS
GPRS	NT	LV	27.8627	25.3121	19.8558	0.0151	0.0135	0.0104	2.50	PASS
		NV	25.7964	23.5687	20.0172	0.0139	0.0125	0.0105	2.50	PASS
		HV	26.8295	25.4412	21.2118	0.0145	0.0135	0.0111	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	23.0198	22.0190	16.7241	0.0124	0.0117	0.0088	2.50	PASS
		-20.00	25.5381	21.9867	15.4326	0.0138	0.0117	0.0081	2.50	PASS
		-10.00	25.5704	23.6332	12.0749	0.0138	0.0126	0.0063	2.50	PASS
		0.00	26.5067	18.9518	16.2721	0.0143	0.0101	0.0085	2.50	PASS
		10.00	28.5084	21.5024	15.7232	0.0154	0.0114	0.0082	2.50	PASS
		20.00	29.3801	21.7930	16.0461	0.0159	0.0116	0.0084	2.50	PASS
		30.00	29.7676	22.2127	16.2075	0.0161	0.0118	0.0085	2.50	PASS
		40.00	26.5067	22.8907	17.1115	0.0143	0.0122	0.0090	2.50	PASS
		50.00	25.6027	18.4029	13.3663	0.0138	0.0098	0.0070	2.50	PASS
GPRS	NV	-30.00	28.9927	25.4090	20.5015	0.0157	0.0135	0.0107	2.50	PASS
		-20.00	27.8950	24.9892	21.7284	0.0151	0.0133	0.0114	2.50	PASS
		-10.00	27.4107	24.3112	20.6307	0.0148	0.0129	0.0108	2.50	PASS
		0.00	27.6044	24.0852	19.4038	0.0149	0.0128	0.0102	2.50	PASS
		10.00	27.1201	25.1184	19.6621	0.0147	0.0134	0.0103	2.50	PASS
		20.00	27.4430	23.1490	19.6621	0.0148	0.0123	0.0103	2.50	PASS
		30.00	27.1201	24.6341	18.8549	0.0147	0.0131	0.0099	2.50	PASS
		40.00	26.0224	25.3444	19.2101	0.0141	0.0135	0.0101	2.50	PASS
		50.00	25.7964	25.0538	18.7258	0.0139	0.0133	0.0098	2.50	PASS



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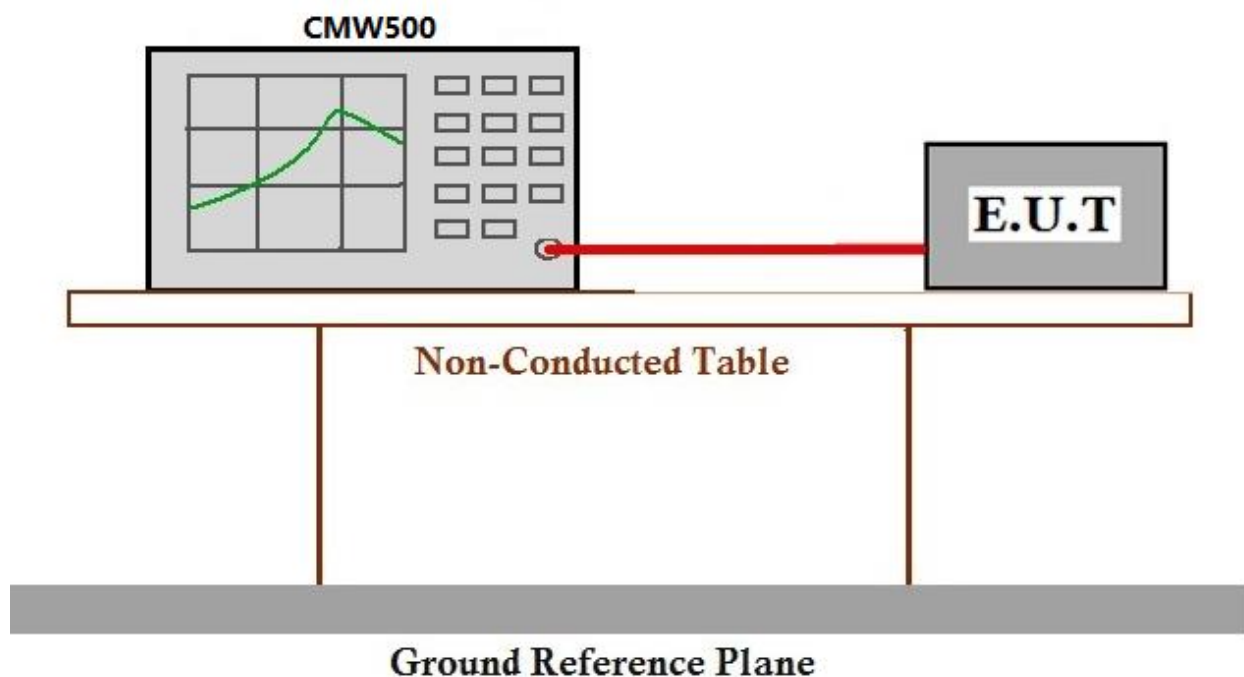
6.8 Modulation Characteristics

Test Requirement: S2.1047
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: Digital modulation

6.8.1 E.U.T. Operation

Operating Environment:
Temperature: 25.9 °C Humidity: 48.9 % RH Atmospheric Pressure: 1000 mbar
Test mode: 08:TX mode_Keep the EUT in transmitting mode

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

Pass, it's a digital modulation device.

7 Test Setup Photo

Refer to Appendix - Setup Photos-WWAN for GZCR2108020815AT.

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2108020815AT.

- End of the Report -



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