

TEST REPORT

Application No.: FYCR2205000177AT
Applicant: Zhongshan Transtek Electronics Co., Ltd.
Address of Applicant: No. 23, Jin'an Road, Minzhong, Zhongshan, Guangdong, China
Manufacturer: Zhongshan Transtek Electronics Co., Ltd.
Address of Manufacturer: No. 23, Jin'an Road, Minzhong, Zhongshan, Guangdong, China
Factory: Zhongshan Transtek Electronics Co., Ltd.
Address of Factory: No. 23, Jin'an Road, Minzhong, Zhongshan, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Pro Cellular Body Scale
Model No.: BS-2001-G1
FCC ID: 2AOJNBS-2001-G1
Standard(s) : 47 CFR Part 2
47 CFR Part 22 subpart H
47 CFR Part 24 subpart E
Date of Receipt: 2022-05-17
Date of Test: 2022-05-18 to 2022-06-08
Date of Issue: 2022-06-09

Test Result:**Pass***

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



EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-06-09		Original

Authorized for issue by:				
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		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Effective (Isotropic) Radiated Power Output Data	47 CFR Part 2 47 CFR Part 22 subpart H 47 CFR Part 24 subpart E	ANSI C63.26, KDB 971168 D01 v03	§ 2.1046, §22.913, §24.232	PASS
Peak-Average Ratio		ANSI C63.26, KDB 971168 D01 v03	§24.232	PASS
Modulation Characteristics		ANSI C63.26, KDB 971168 D01 v03	§ 2.1047	PASS
Bandwidth		ANSI C63.26, KDB 971168 D01 v03	§ 2.1049(h), §22.917, §24.238	PASS
Band Edge Compliance		ANSI C63.26, KDB 971168 D01 v03	§ 2.1051, §22.917, §24.238	PASS
Spurious emissions at antenna terminals		ANSI C63.26, KDB 971168 D01 v03	§ 2.1051, §22.917, §24.238	PASS
Field strength of spurious radiation		ANSI C63.26, KDB 971168 D01 v03	§ 2.1051, §22.917, §24.238	PASS
Frequency stability		ANSI C63.26, KDB 971168 D01 v03	§ 2.1055, §22.355, §24.235	PASS



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 6V(4*1.5V AA Batteries)
Support Network:	GPRS, EGPRS
Operation Frequency Band:	GSM850/GSM1900
Modulation Type:	GMSK for GPRS/EGPRS 8PSK for EGPRS
Supported Channel Bandwidth:	200KHz
Designation of Emissions	GSM850: 247KGXW, EGPRS850: 248KG7W GSM1900: 246KGXW, EGPRS1900: 246KG7W
Antenna Type:	PIFA Antenna
Antenna Gain:	GSM850: 1.44dBi GSM1900: 3.86dBi(Low/Middle Channel), 1.65dBi(High channel)
Extreme temp. Tolerance:	-30°C to +50°C

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.3 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)
GSM1900	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



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4.4 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	5.1 V
	VN	6 V
	VH	6 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

4.5 Measurement Uncertainty

Test Item	Measurement Uncertainty
Effective (Isotropic) Radiated Power Output Data	± 3.1dB (Below 1GHz), ± 4.4dB (Above 1GHz)
Peak-Average Ratio	± 0.8dB
Modulation Characteristics	± 0.8dB
Bandwidth	± 0.3%
Band Edge Compliance	± 2.7dB
Spurious emissions at antenna terminals	± 2.7dB
Field strength of spurious radiation	± 3.1dB (Below 1GHz), ± 4.4dB (Above 1GHz)
Frequency stability	± 5.4 x 10-8



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4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

RF Conducted Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz-26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator(9kHz-40GHz)	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator(250kHz-6GHz)	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12

Field strength of spurious radiation(Below 1GHz & Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1-1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24



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Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz-18GHz)	CLAVIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12



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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(GPRS850)
EIRP≤2W(GPRS1900)

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

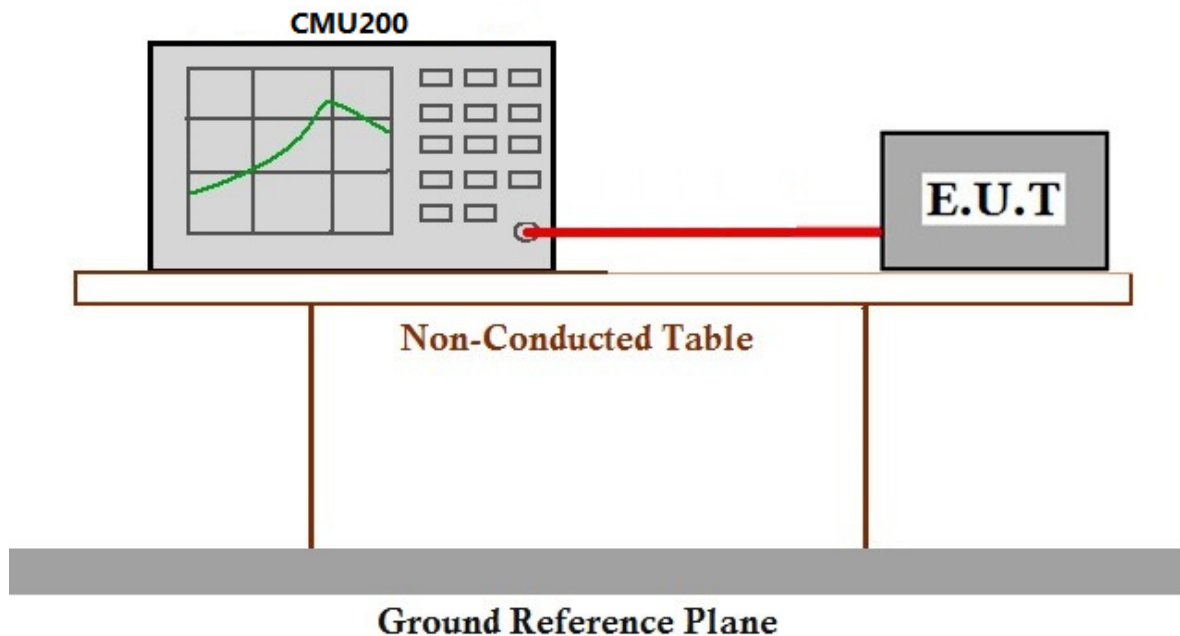
Humidity: 55.8 % RH

Atmospheric Pressure: 1020 mbar

6.1.1 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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6.2 Peak-Average Ratio

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

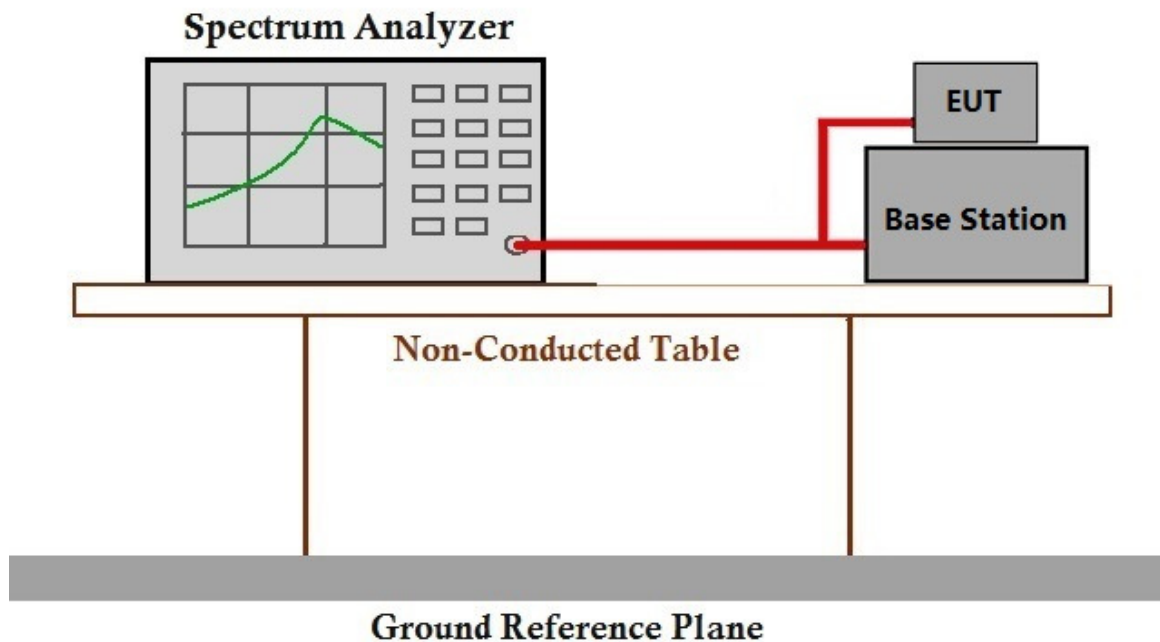
6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 55.8 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

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6.3 Modulation Characteristics

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

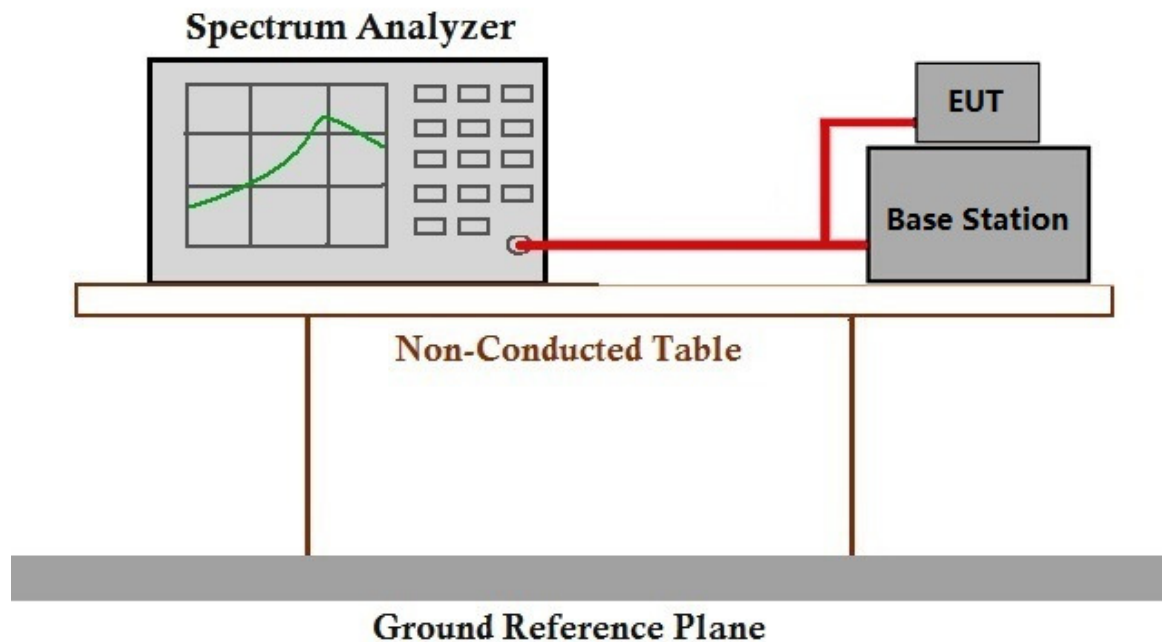
6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 55.8 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

Note: this device uses digital modulation.



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6.4 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

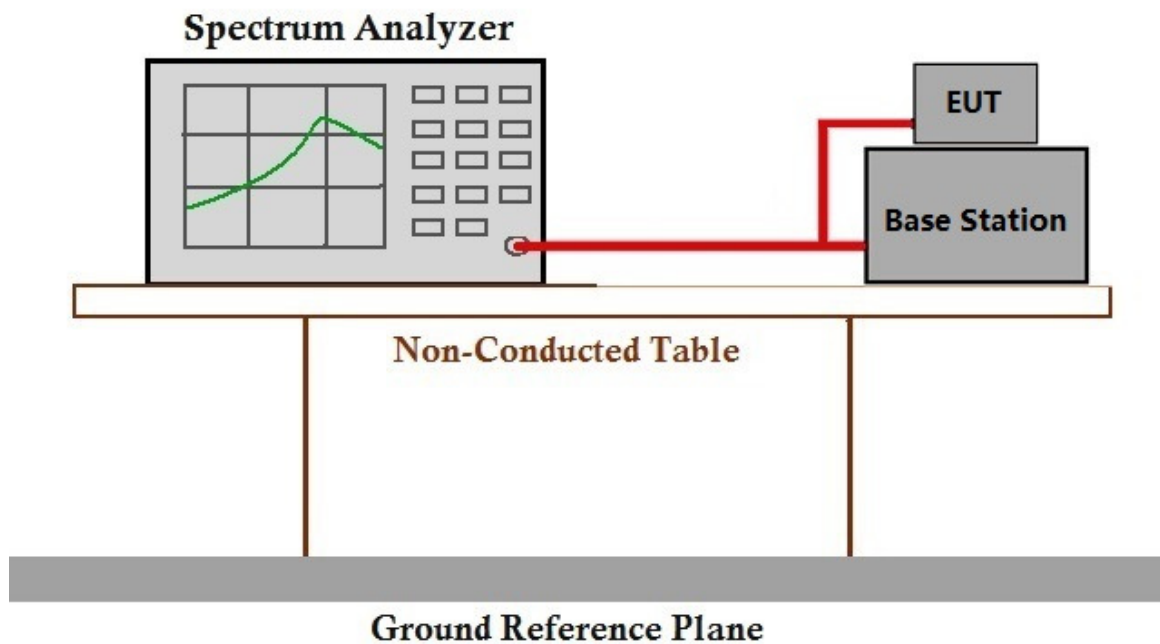
6.4.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 55.8 % RH Atmospheric Pressure: 1020 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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6.5 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.

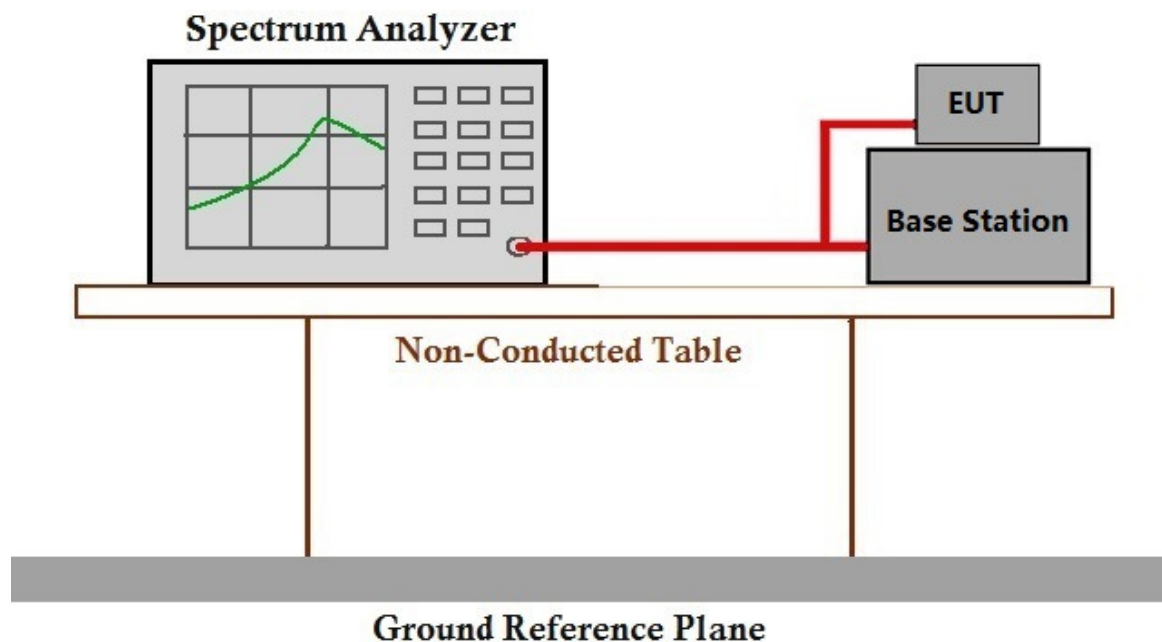
6.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.3 °C Humidity: 55.8 % RH Atmospheric Pressure: 1020 mbar

6.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.5.3 Test Setup Diagram



6.5.4 Measurement Procedure and Data

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6.6 Spurious emissions at antenna terminals

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

6.6.1 E.U.T. Operation

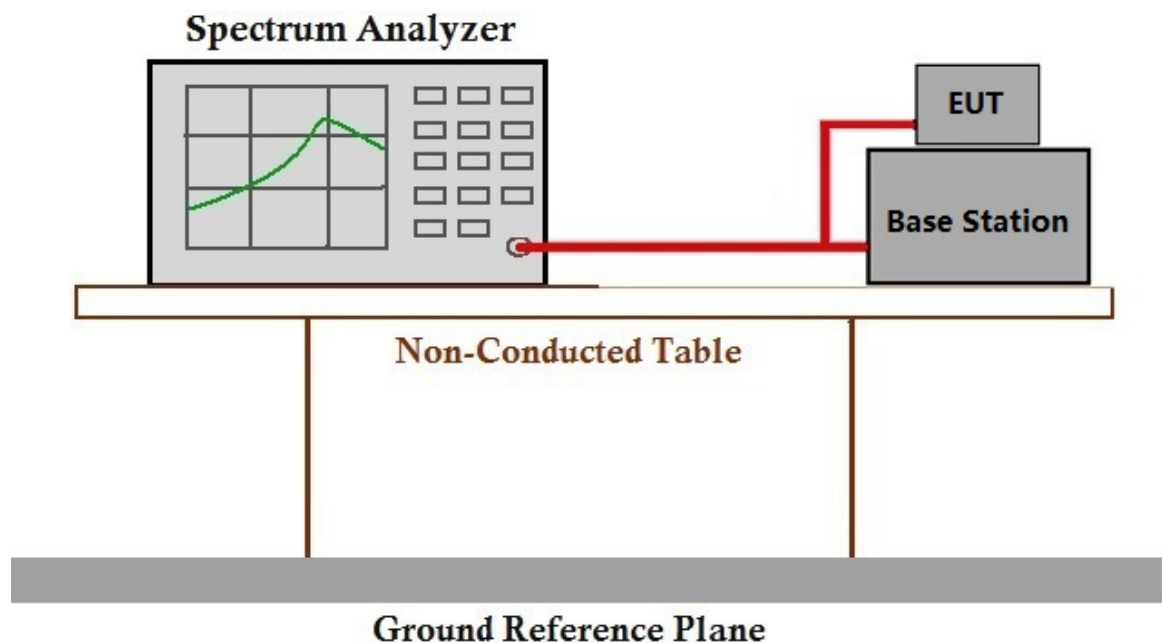
Operating Environment:
 Temperature: 22.3 °C Humidity: 55.8 % RH Atmospheric Pressure: 1020 mbar

6.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.6.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.6.4 Test Setup Diagram

6.6.5 Measurement Procedure and Data

Please Refer to Appendix for Details



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6.7 Field strength of spurious radiation

Test Requirement §2.1051, §22.917, §24.238,
Test Method: ANSI C63.26, KDB 971168 D01 v03
Measurement Distance: 3m
Limit: $\leq -13\text{dBm}$

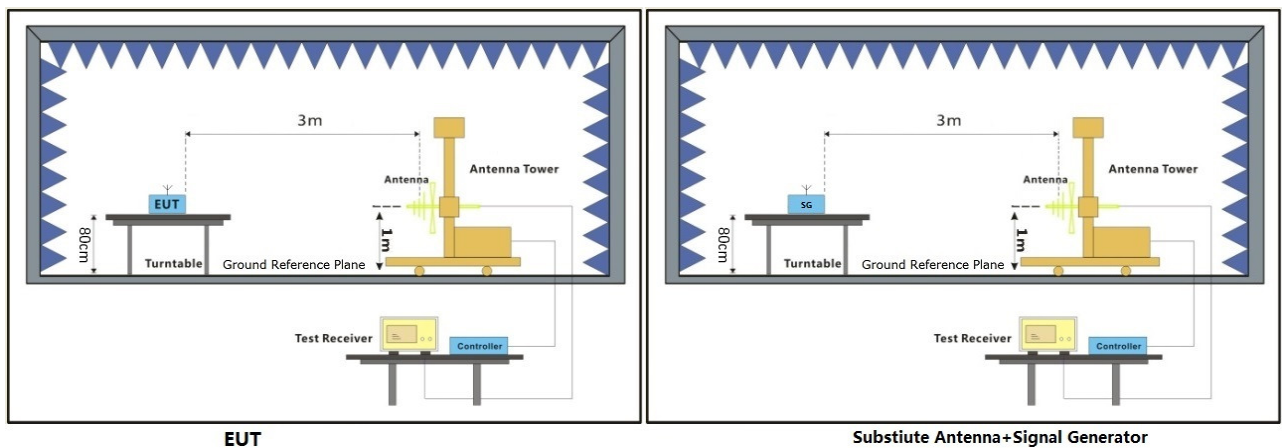
6.7.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 55.8 % RH Atmospheric Pressure: 1020 mbar

6.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.7.3 Test Setup Diagram



6.7.4 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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6.8 Frequency stability

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

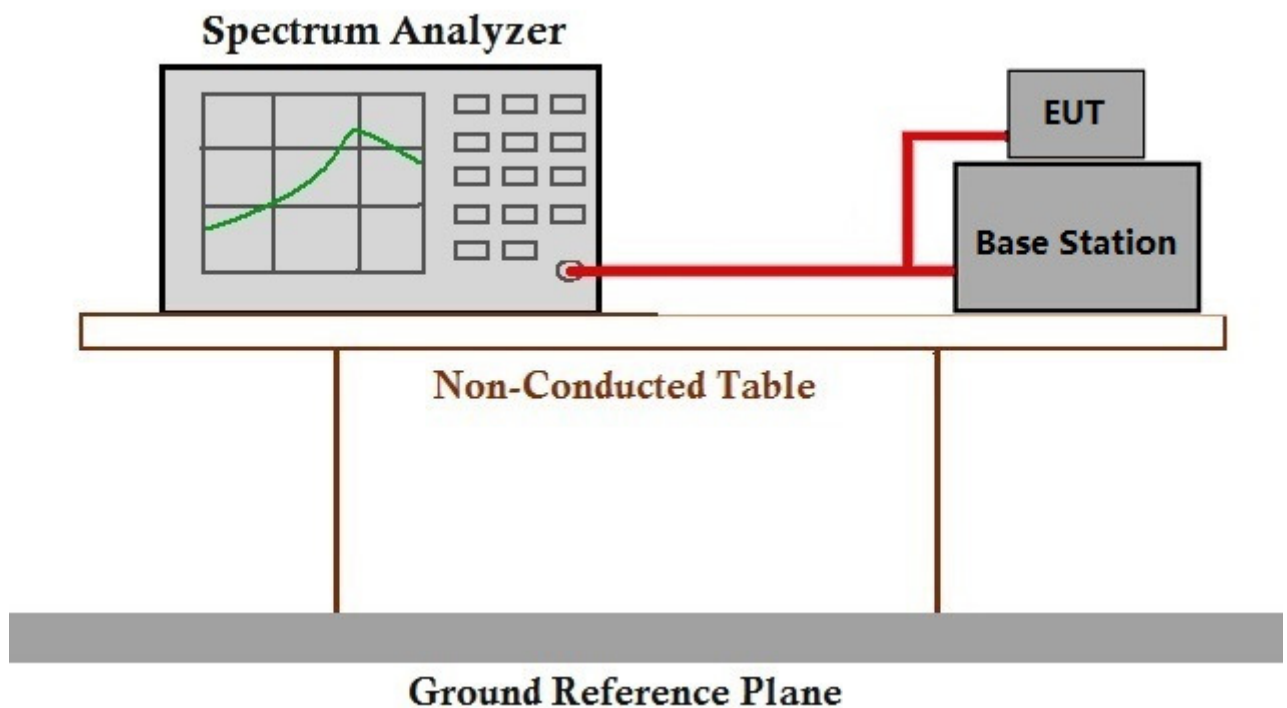
6.8.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 55.8 % RH Atmospheric Pressure: 1020 mbar

6.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.8.3 Test Setup Diagram



6.8.4 Measurement Procedure and Data

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7 Test Setup Photo

Refer to Appendix – Test Setup Photos for FYCR2205000177AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2205000177AT



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Appendix

1. Effective (Isotropic) Radiated Power Output Data

Test band: GSM850										
Conducted output power(dBm)					Antenna gain (dBd)	Antenna gain (dBi)	FCC: ERP(dBm)			Limit (dBm)
Channel		128	190	251			128	190	251	
GPRS (GMSK)	1 TX Slot	32.76	32.58	31.93	-0.71	1.44	32.05	31.87	31.22	38.45
	2 TX Slots	32.07	31.60	30.81	-0.71	1.44	31.36	30.89	30.10	38.45
	3 TX Slots	29.35	29.47	28.76	-0.71	1.44	28.64	28.76	28.05	38.45
	4 TX Slots	28.30	27.68	27.70	-0.71	1.44	27.59	26.97	26.99	38.45
EGPRS (8PSK)	1 TX Slot	24.89	24.59	24.41	-0.71	1.44	24.18	23.88	23.70	38.45
	2 TX Slots	24.83	24.58	24.15	-0.71	1.44	24.12	23.87	23.44	38.45
	3 TX Slots	23.02	22.92	22.33	-0.71	1.44	22.31	22.21	21.62	38.45
	4 TX Slots	21.80	21.46	21.34	-0.71	1.44	21.09	20.75	20.63	38.45

Test band: PCS1900											
Conducted output power(dBm)				Antenna gain(dBi)			FCC: EIRP(dBm)			Limit (dBm)	
Channel		512	661	810	512	661	810	512	661	810	
GPRS (GMSK)	1 TX Slot	27.54	27.27	27.13	3.86	3.86	1.65	31.4	31.13	28.78	33
	2 TX Slots	26.15	25.90	25.71	3.86	3.86	1.65	30.01	29.76	27.36	33
	3 TX Slots	24.24	23.97	23.77	3.86	3.86	1.65	28.1	27.83	25.42	33
	4 TX Slots	22.89	22.64	22.51	3.86	3.86	1.65	26.75	26.5	24.16	33
EGPRS (8PSK)	1 TX Slot	23.17	22.97	22.59	3.86	3.86	1.65	27.03	26.83	24.24	33
	2 TX Slots	22.09	21.95	22.79	3.86	3.86	1.65	25.95	25.81	24.44	33
	3 TX Slots	20.10	20.01	19.80	3.86	3.86	1.65	23.96	23.87	21.45	33
	4 TX Slots	18.85	18.91	18.56	3.86	3.86	1.65	22.71	22.77	20.21	33

Note:

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



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2. Peak-Average Ratio

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	9.92	<=13	Pass
			836.6	3.48	<=13	Pass
			848.8	4.36	<=13	Pass
	EGPRS	4 TX Slots	824.2	12.24	<=13	Pass
			836.6	6.82	<=13	Pass
			848.8	10.36	<=13	Pass

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	10.00	<=13	Pass
			1880	3.95	<=13	Pass
			1909.8	3.56	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.62	<=13	Pass
			1880	6.90	<=13	Pass
			1909.8	7.46	<=13	Pass

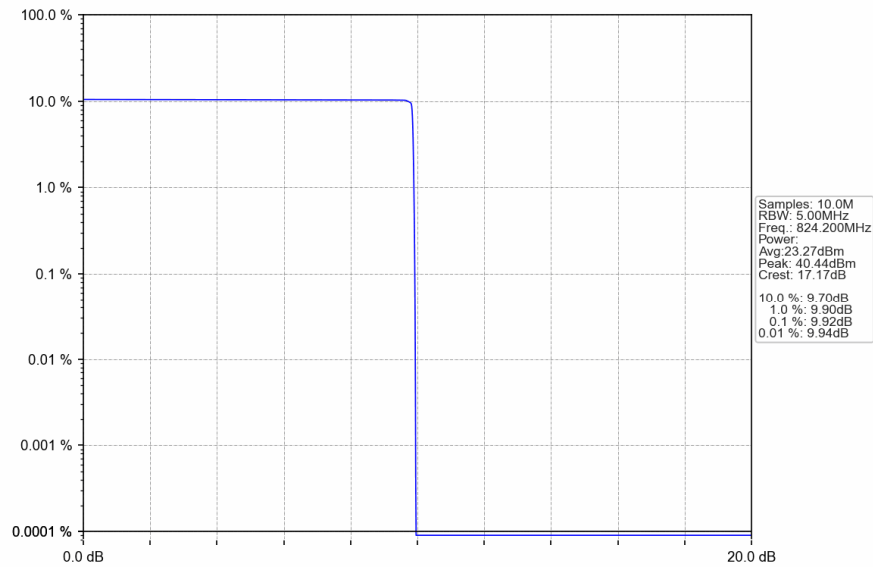


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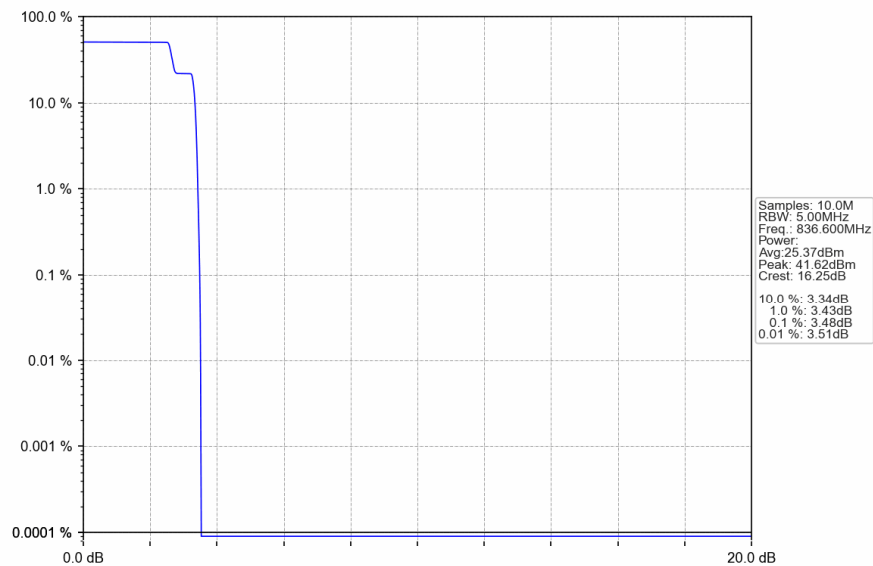
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GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



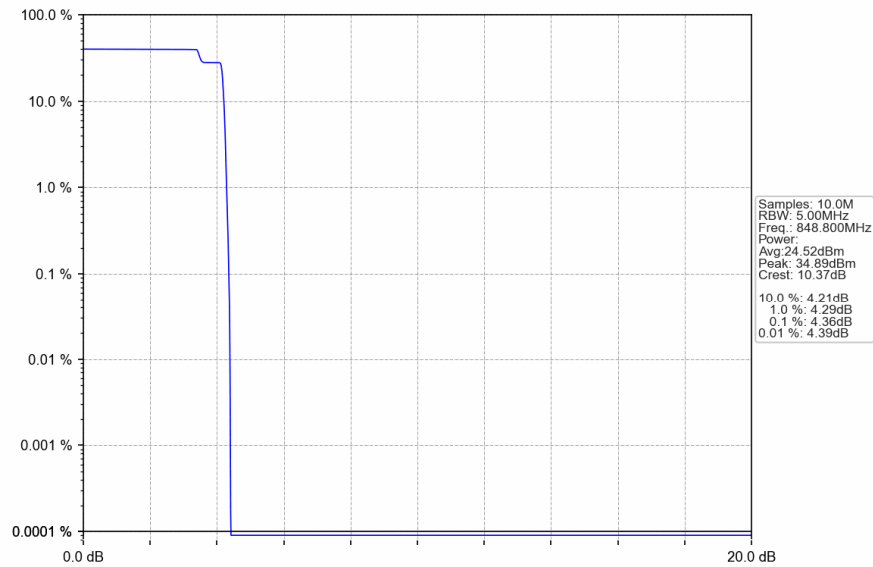
GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



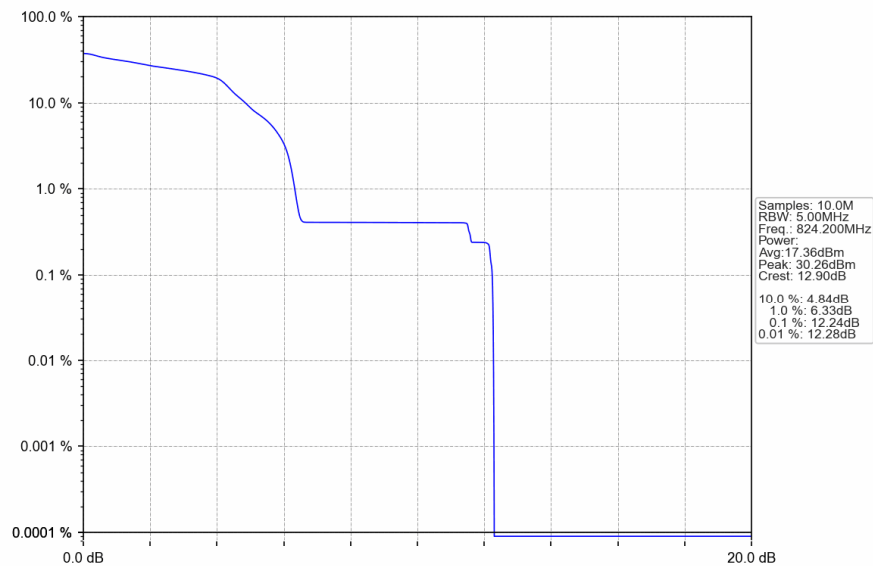
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GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV

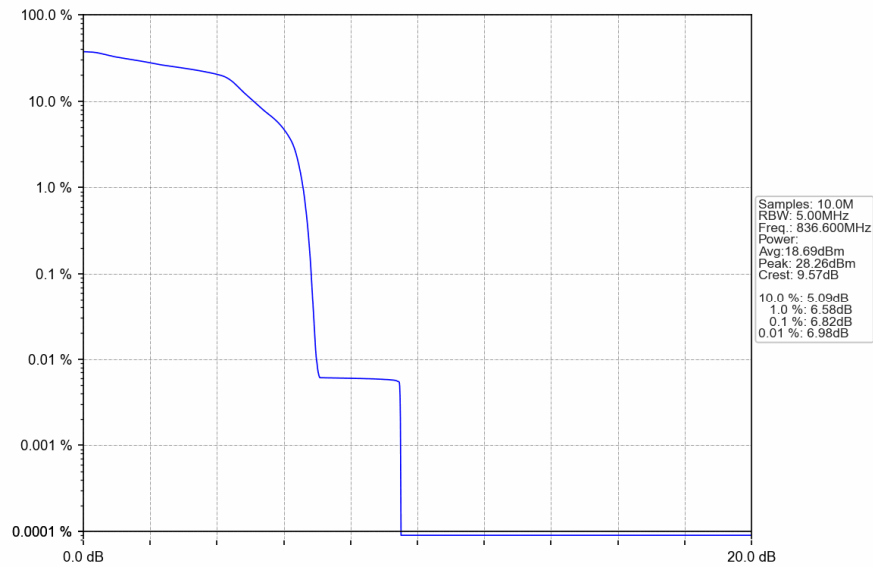


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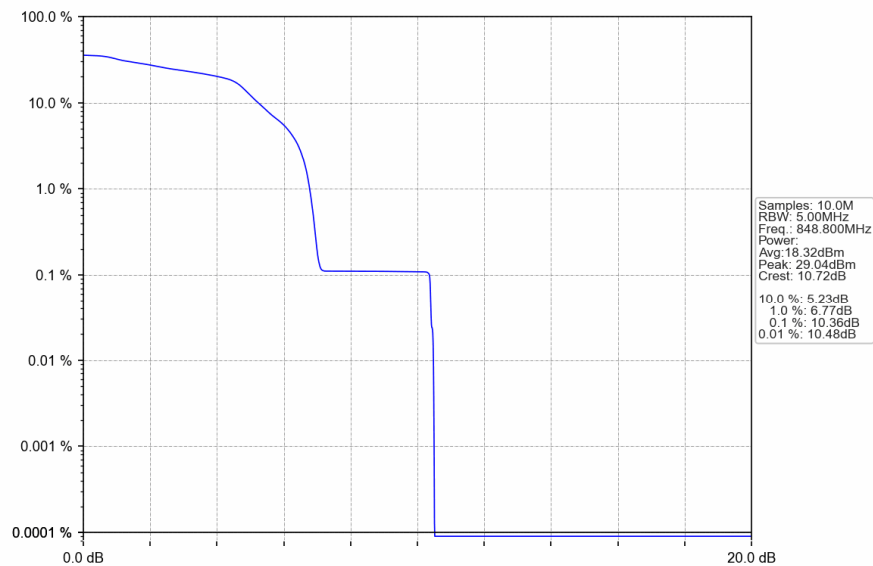
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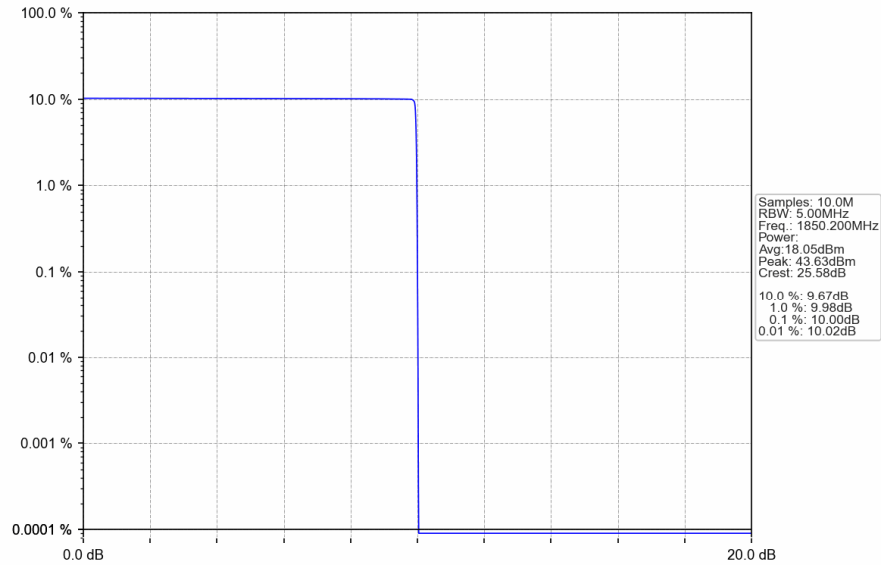
GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



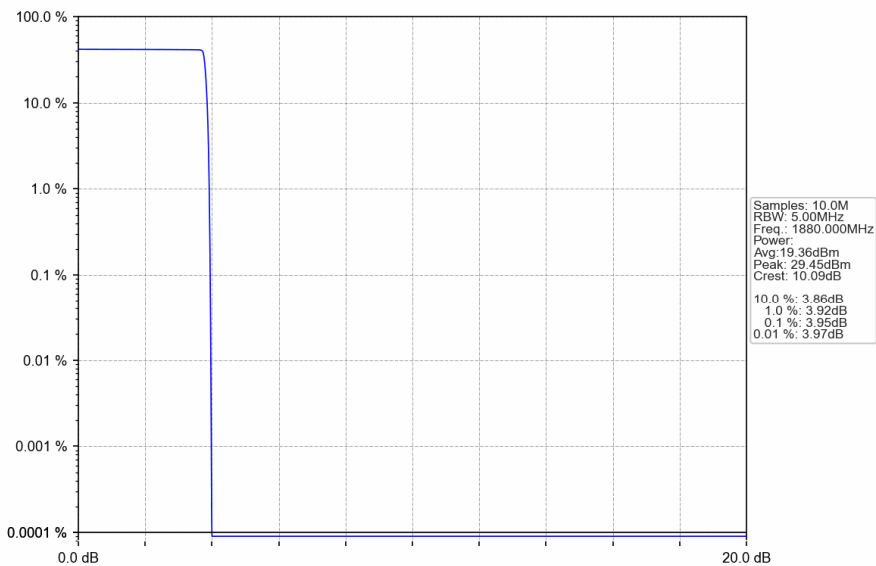
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PCS1900_GPRS_LCH_1850.2MHz_4 TX Slots_NTNV



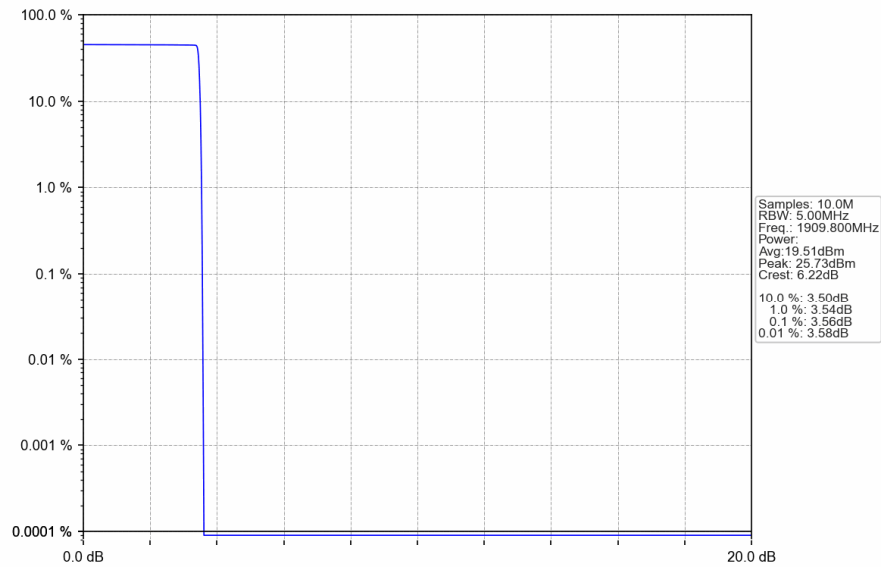
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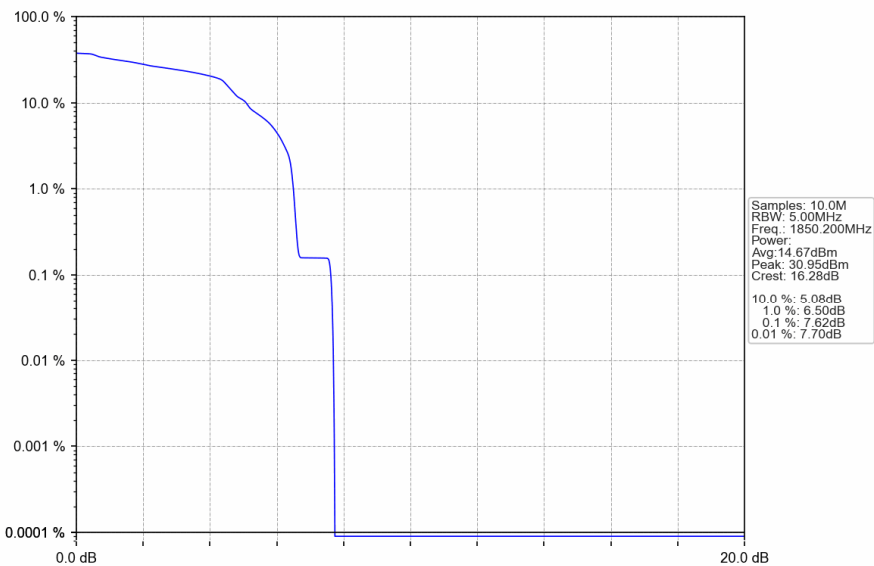
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PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV

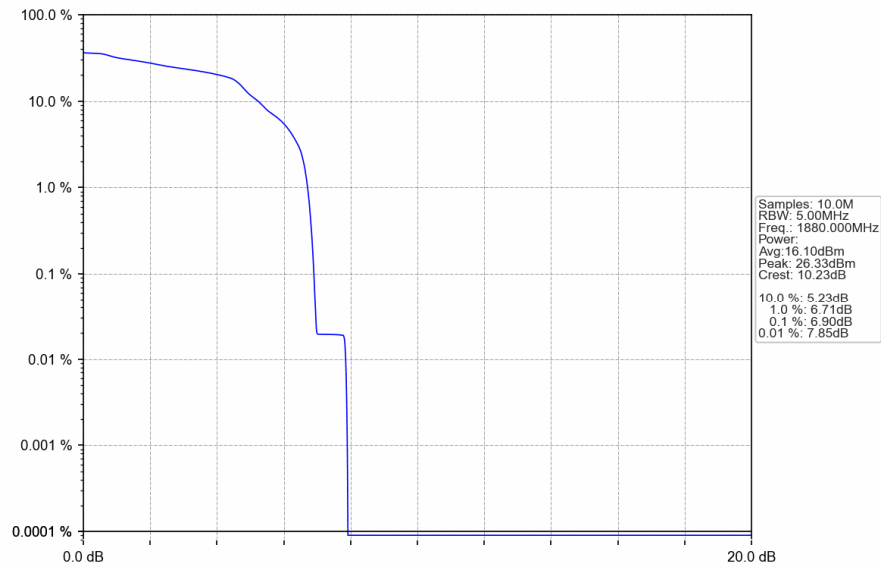


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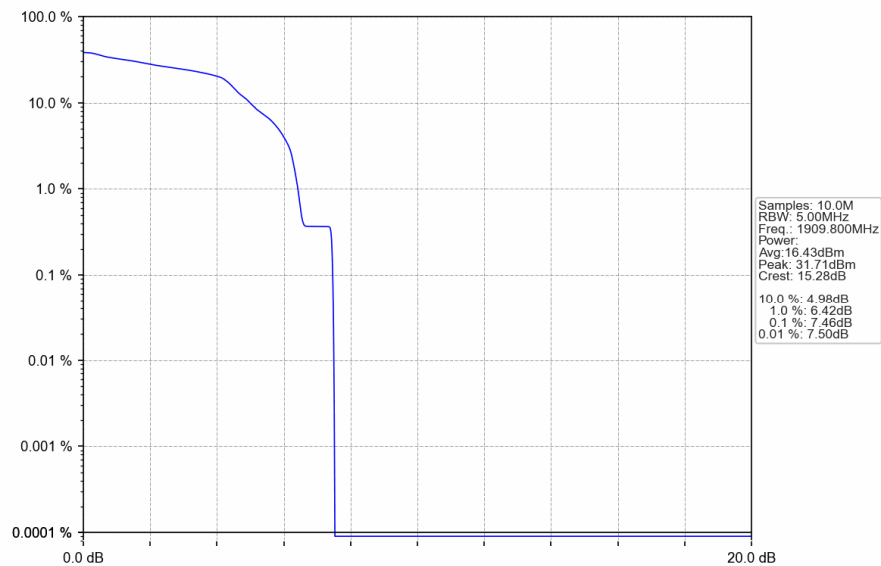
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PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



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3. Bandwidth

Band: GSM850					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	824.2	0.246	Pass
			836.6	0.247	Pass
			848.8	0.243	Pass
	EGPRS	1 TX Slot	824.2	0.241	Pass
			836.6	0.235	Pass
			848.8	0.248	Pass

Band: GSM850					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	824.2	0.314	Pass
			836.6	0.317	Pass
			848.8	0.317	Pass
	EGPRS	1 TX Slot	824.2	0.303	Pass
			836.6	0.301	Pass
			848.8	0.293	Pass

Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.243	Pass
			1880	0.246	Pass
			1909.8	0.245	Pass
	EGPRS	1 TX Slot	1850.2	0.246	Pass
			1880	0.244	Pass
			1909.8	0.243	Pass



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Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.319	Pass
			1880	0.321	Pass
			1909.8	0.310	Pass
	EGPRS	1 TX Slot	1850.2	0.310	Pass
			1880	0.303	Pass
			1909.8	0.314	Pass

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



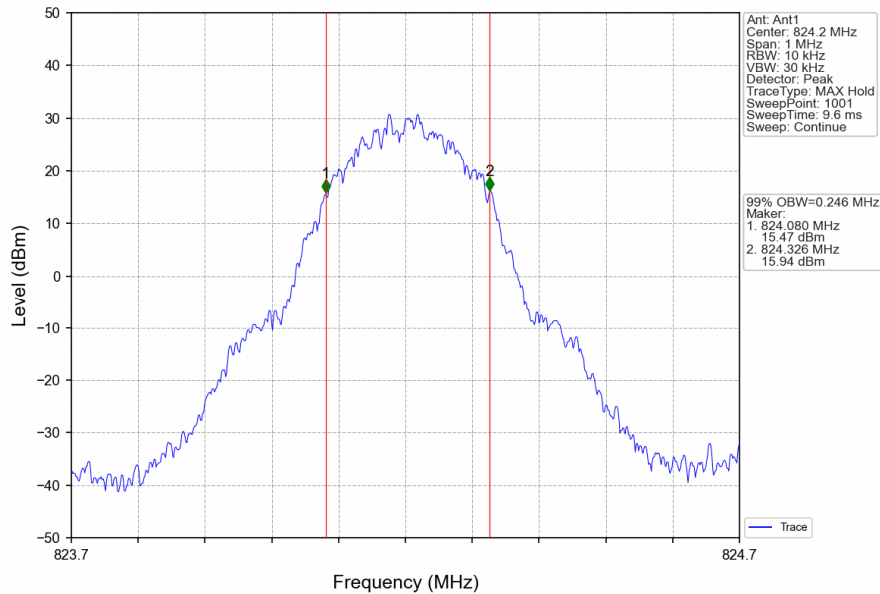
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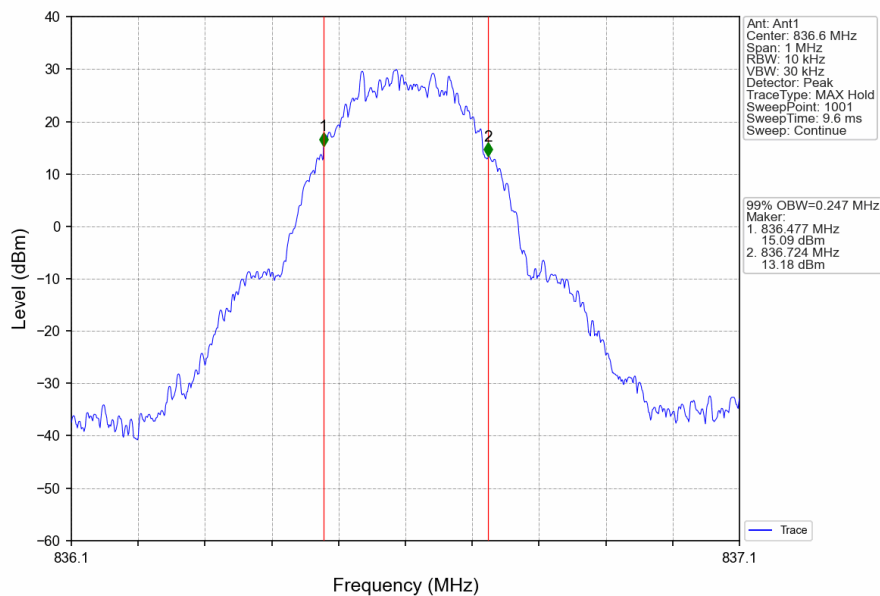
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99% Occupied Bandwidth

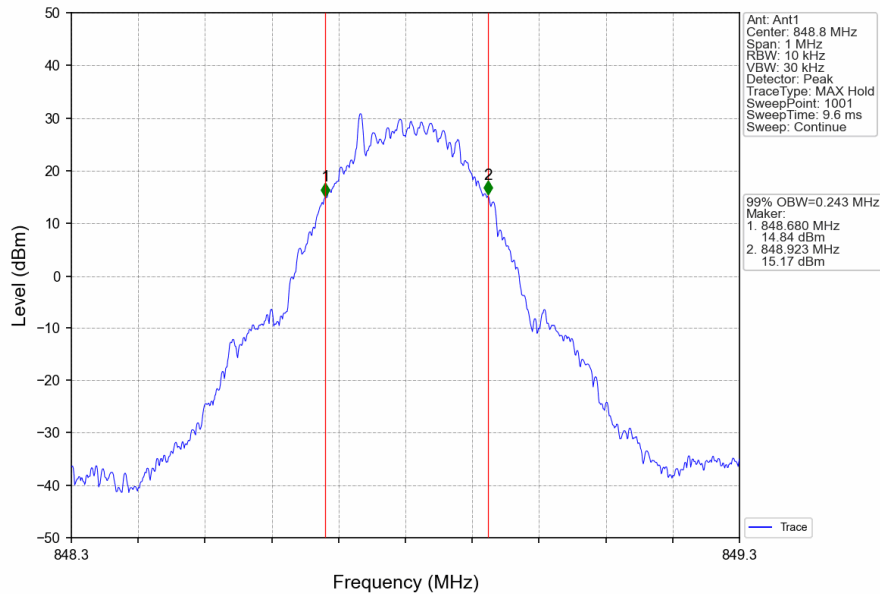
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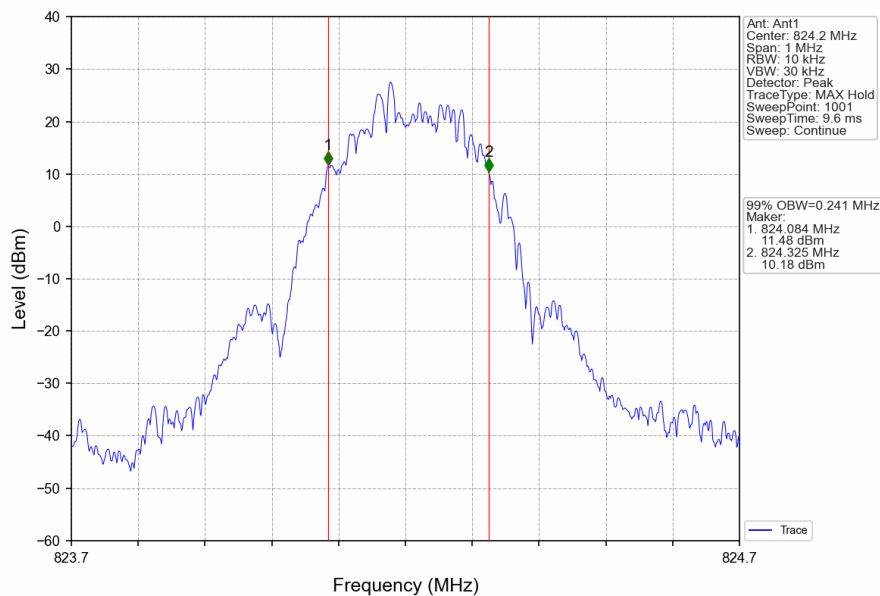
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



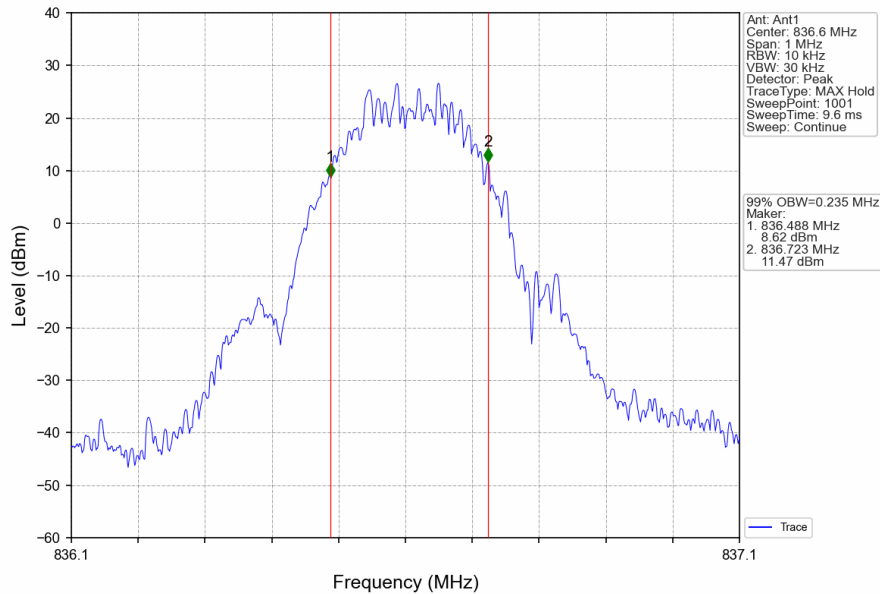
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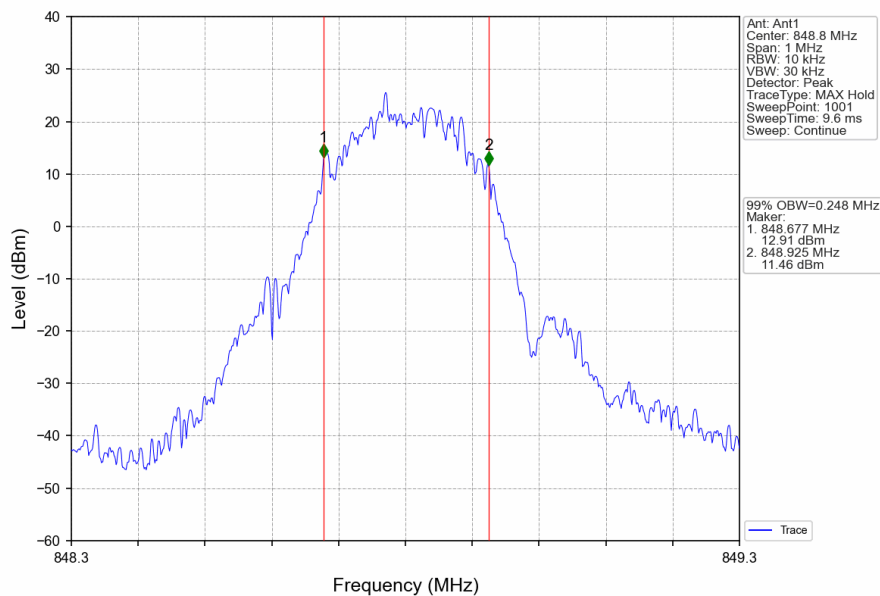
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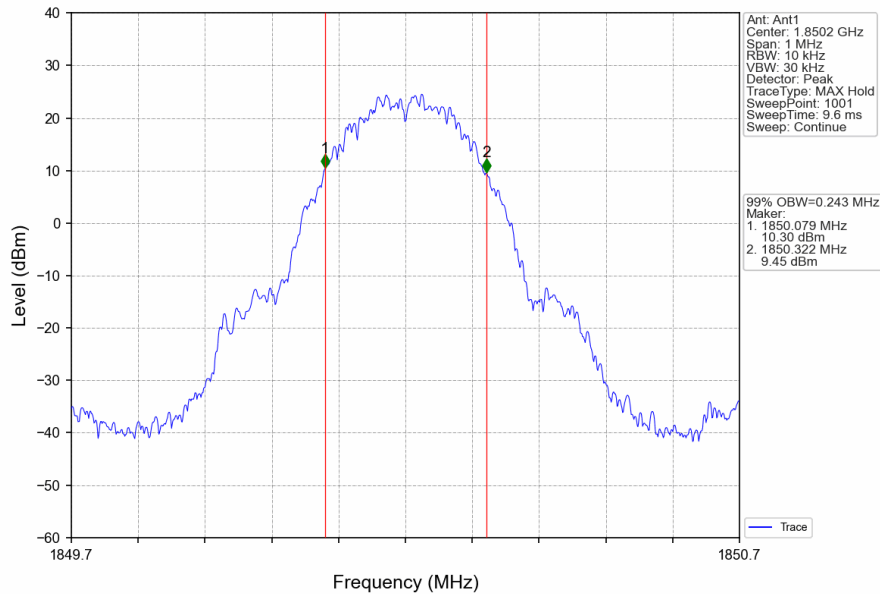
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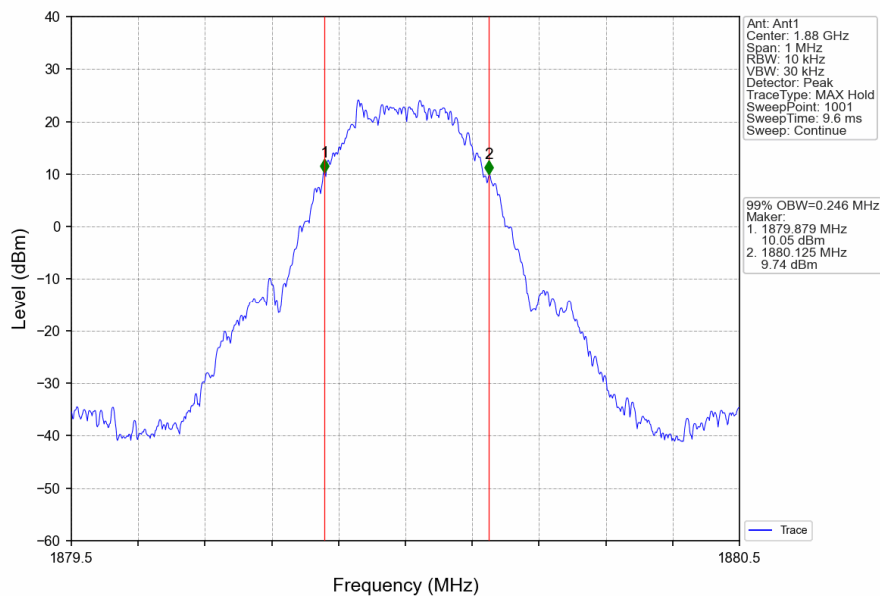
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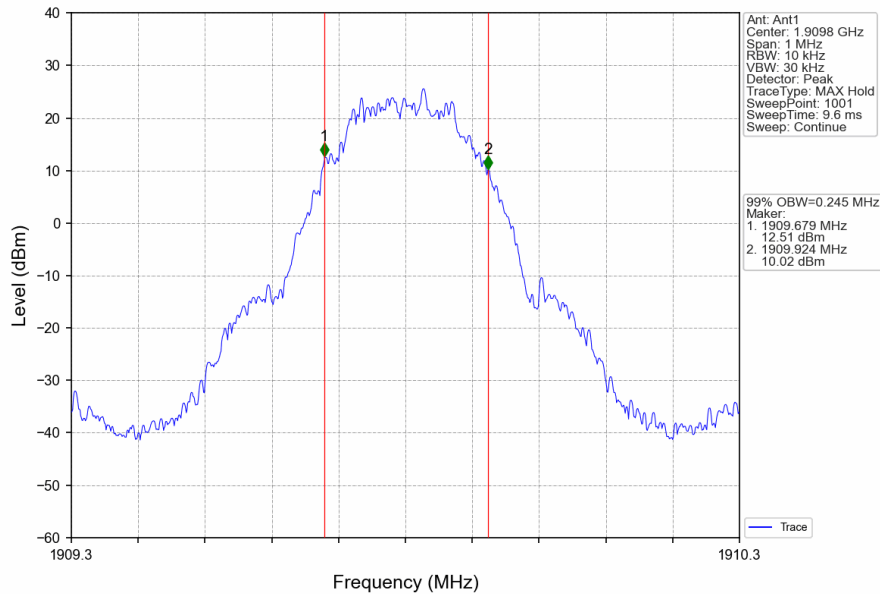
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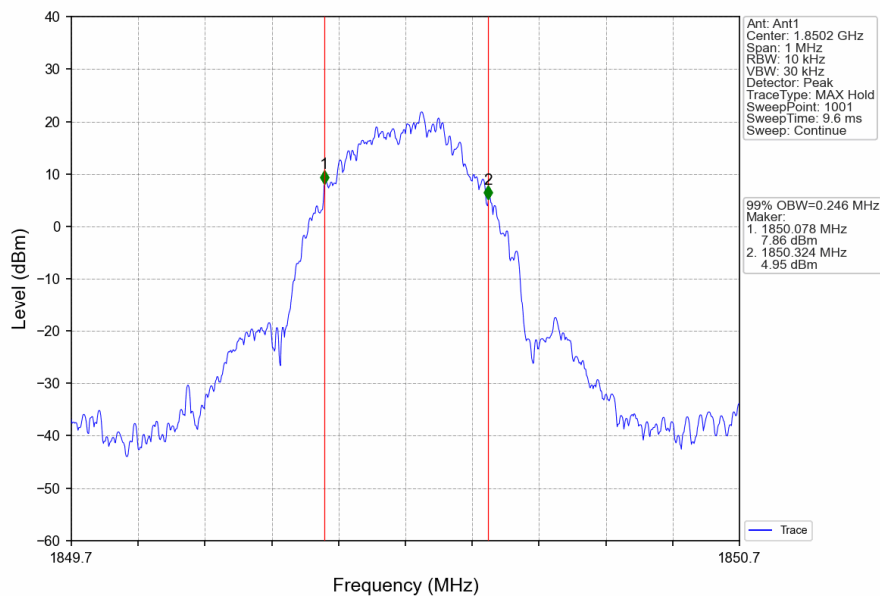
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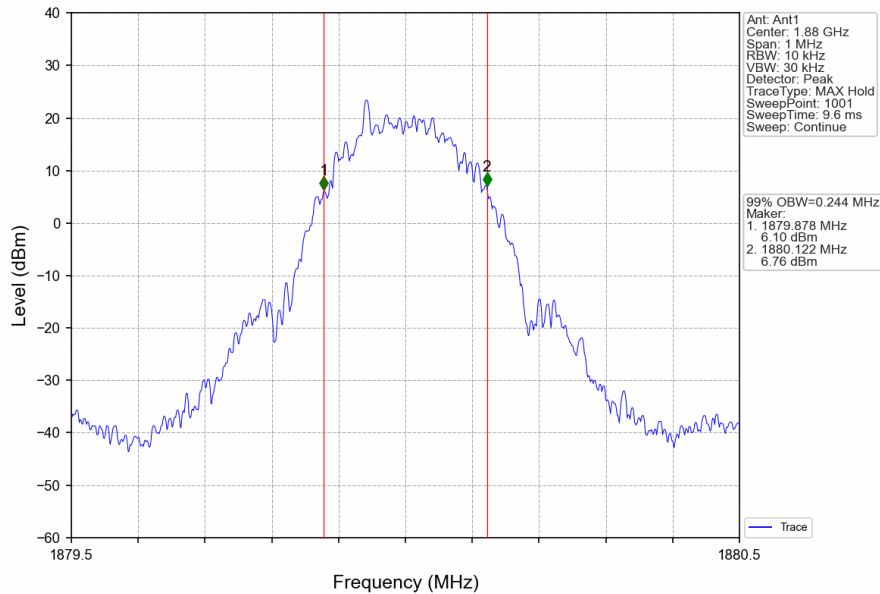
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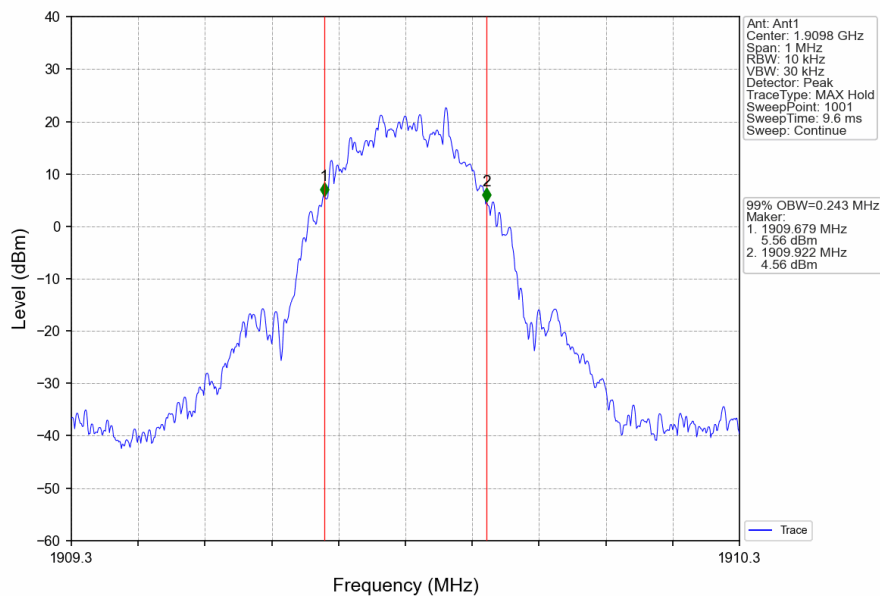
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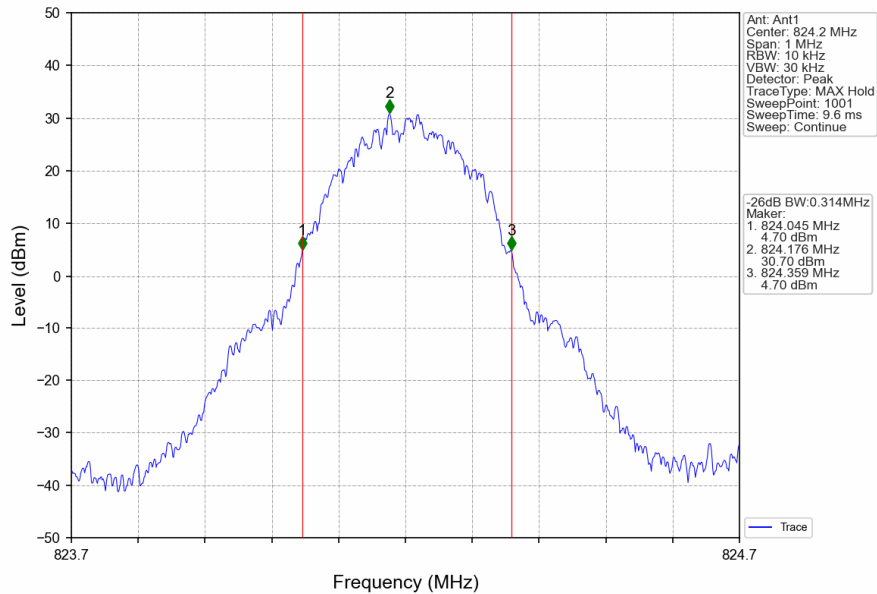
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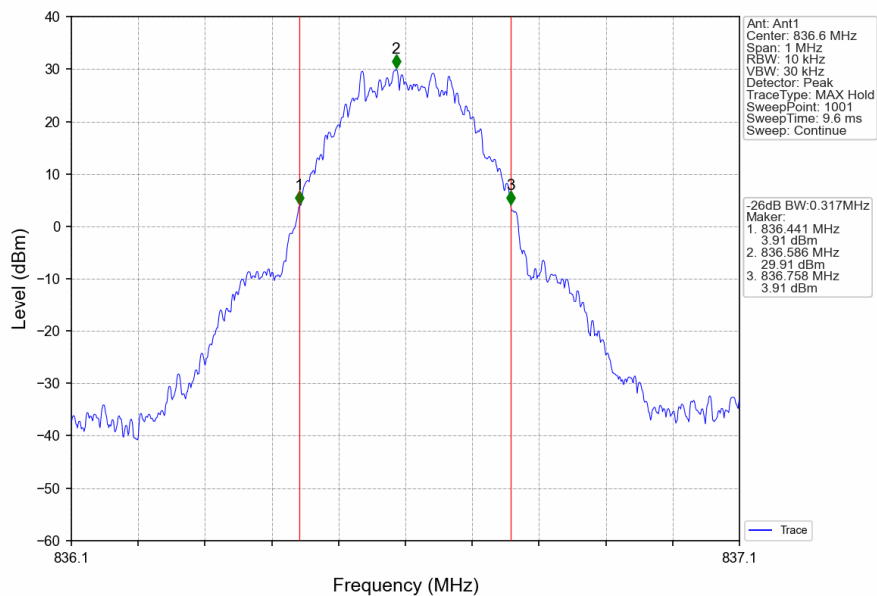
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26dB Bandwidth

GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



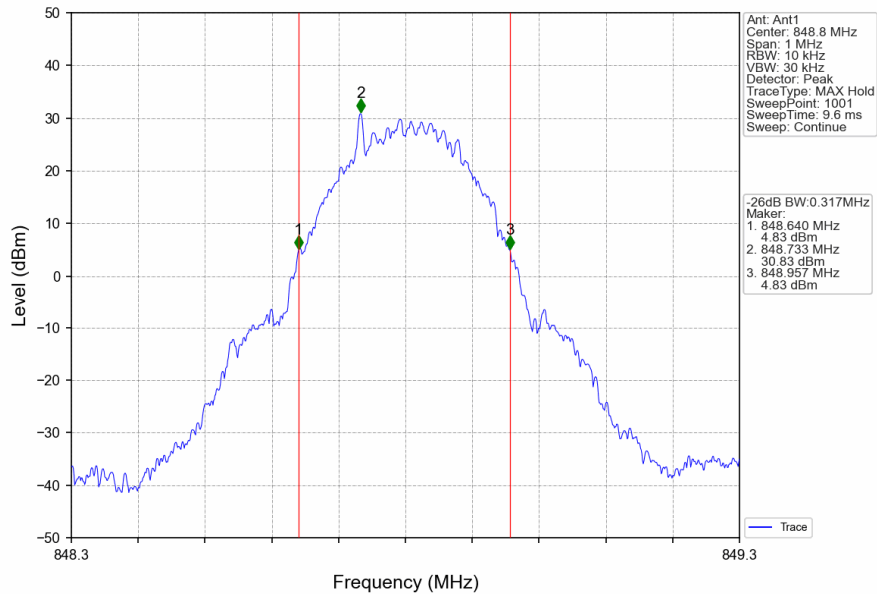
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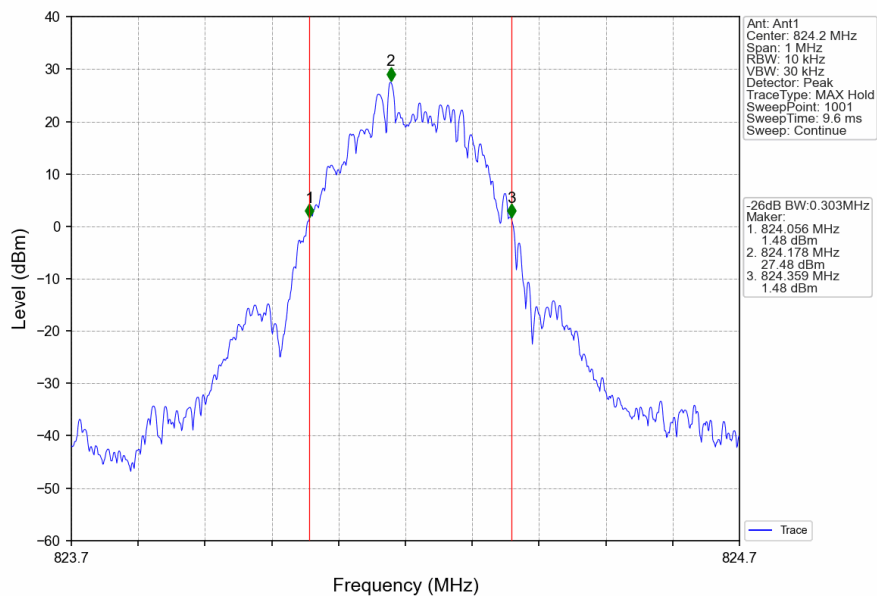
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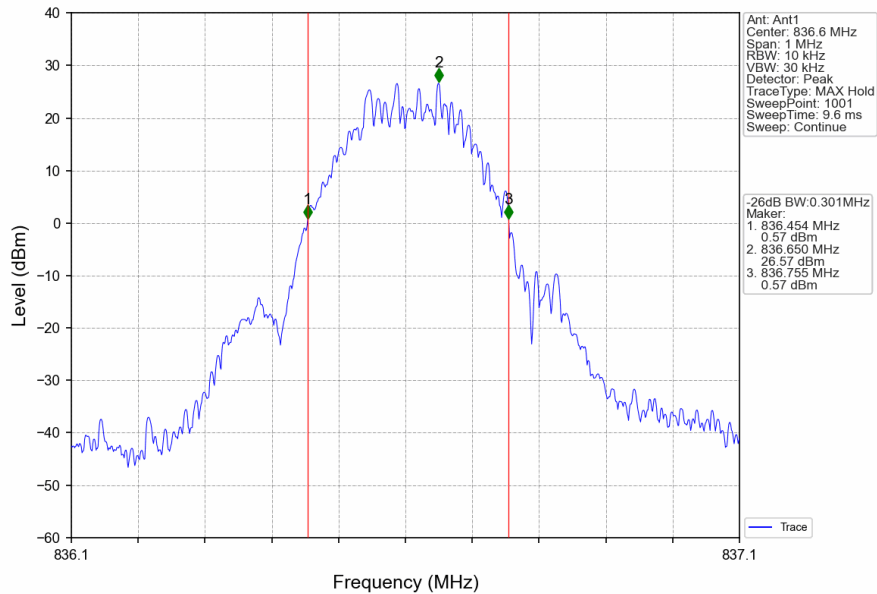
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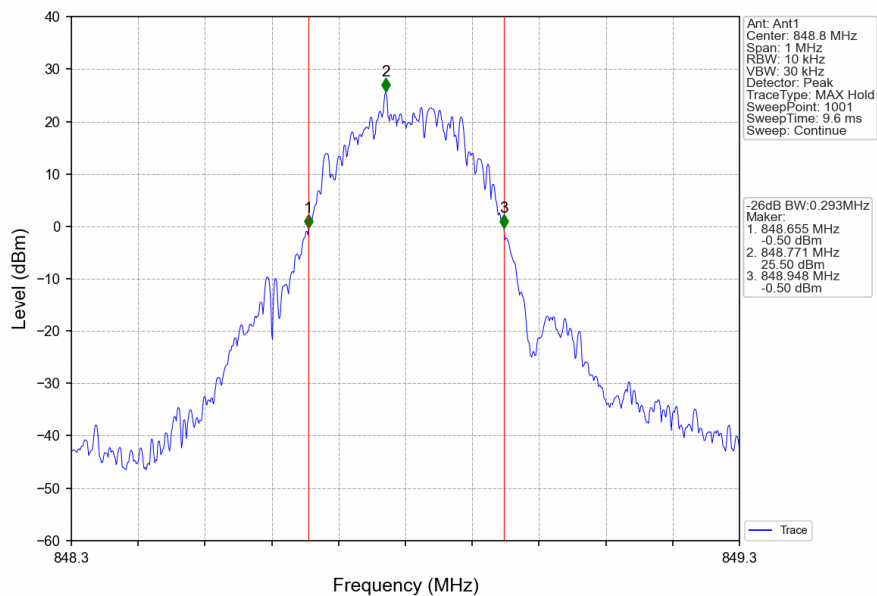
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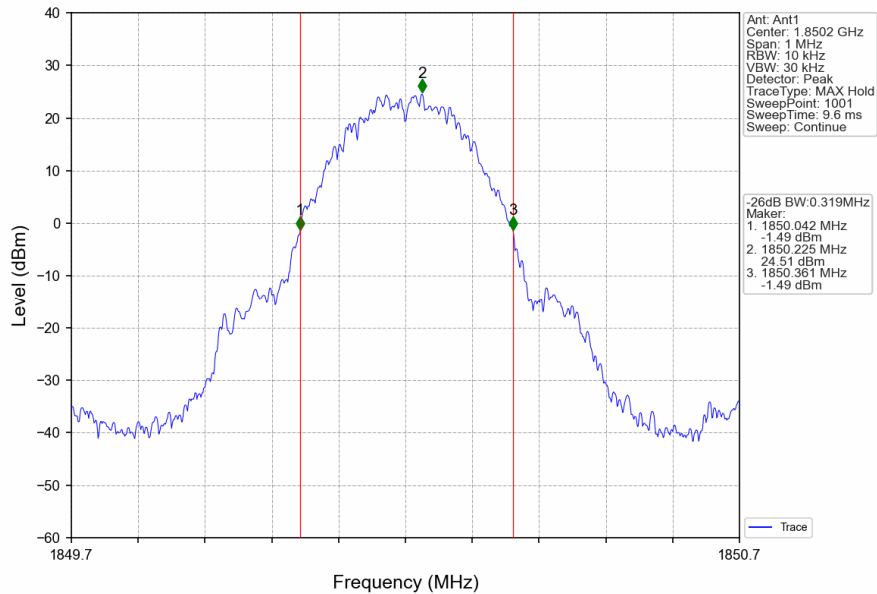
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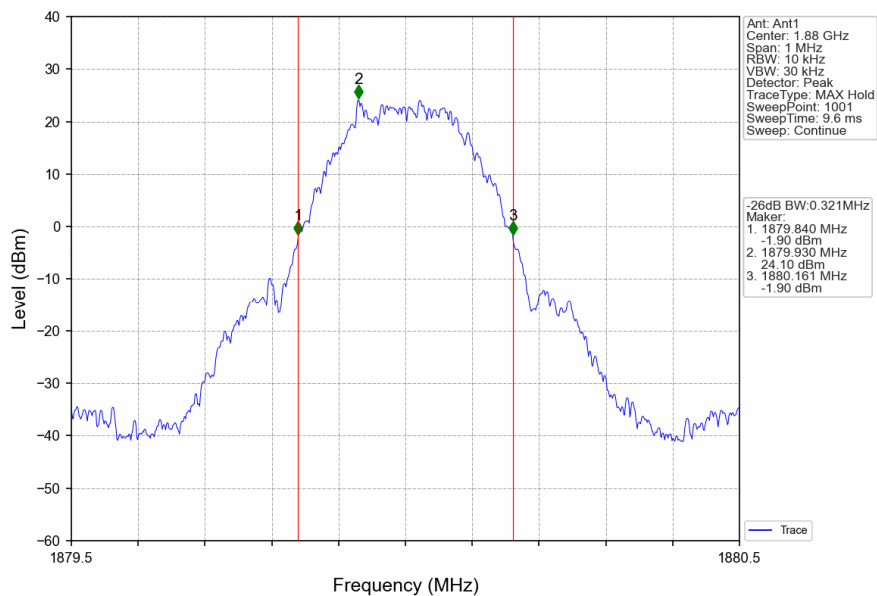
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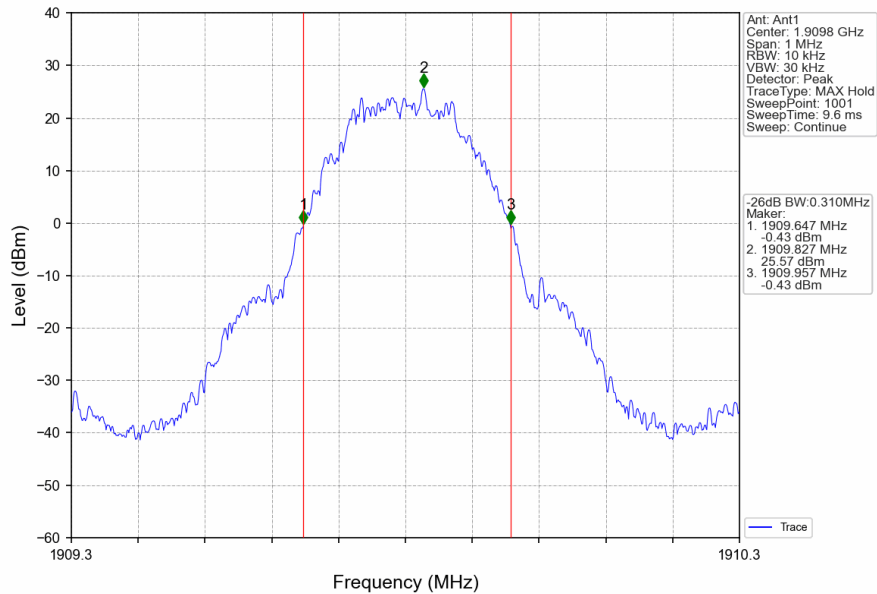
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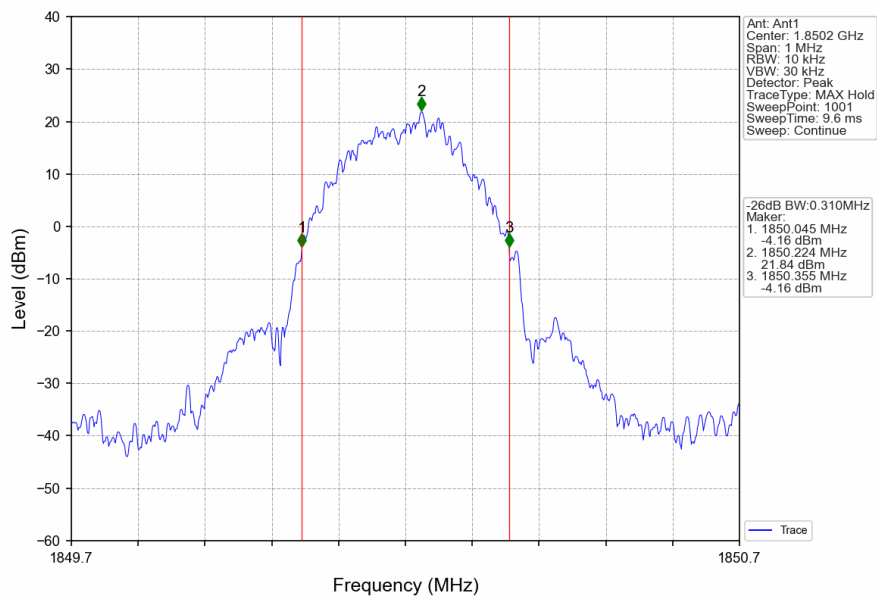
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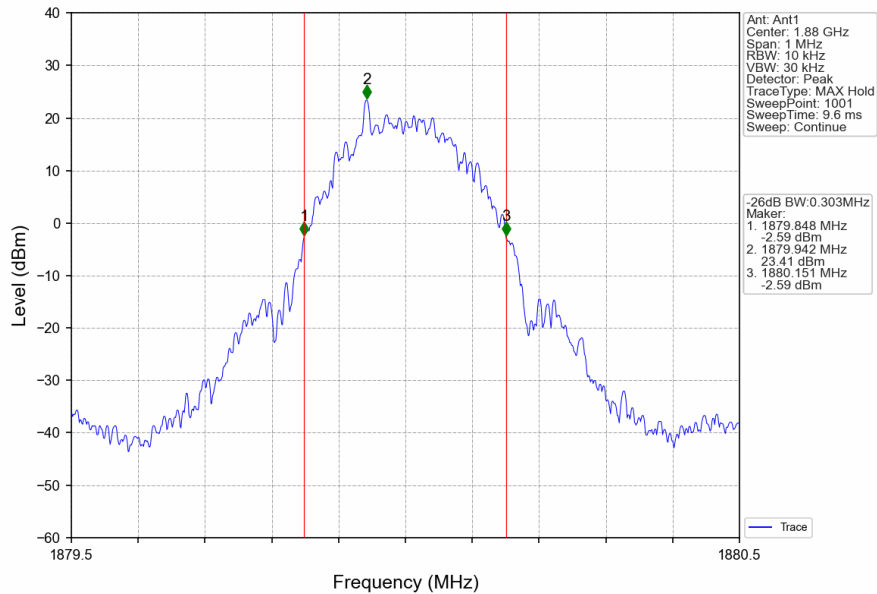


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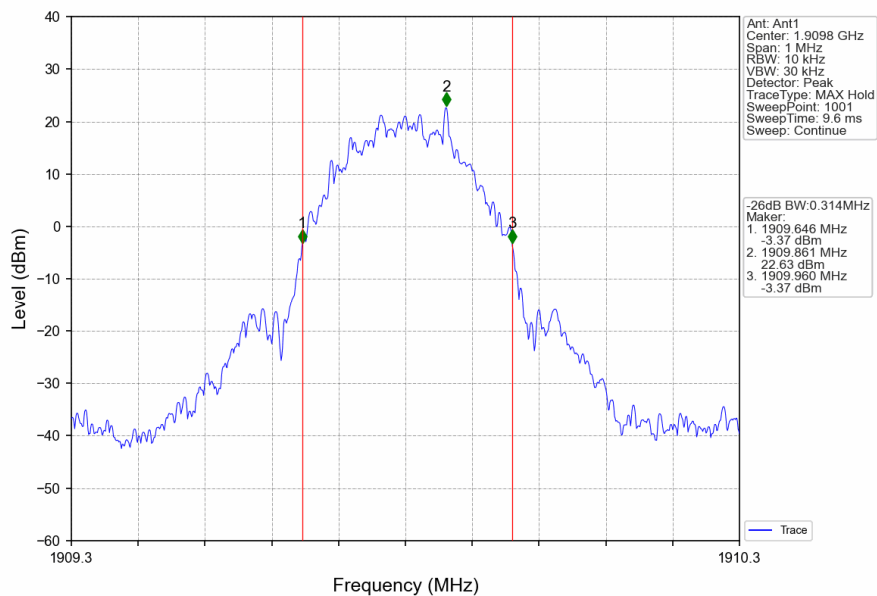
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4. Spurious Emission

Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass

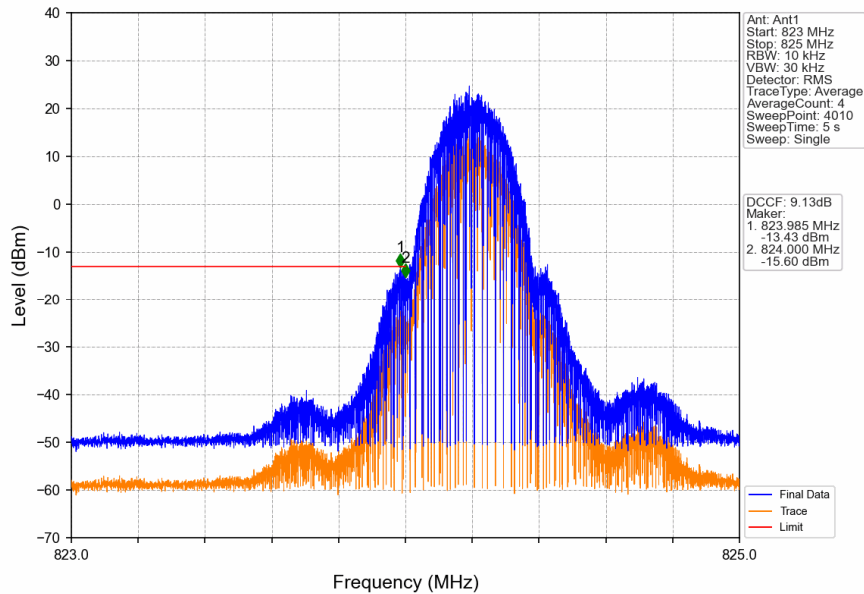


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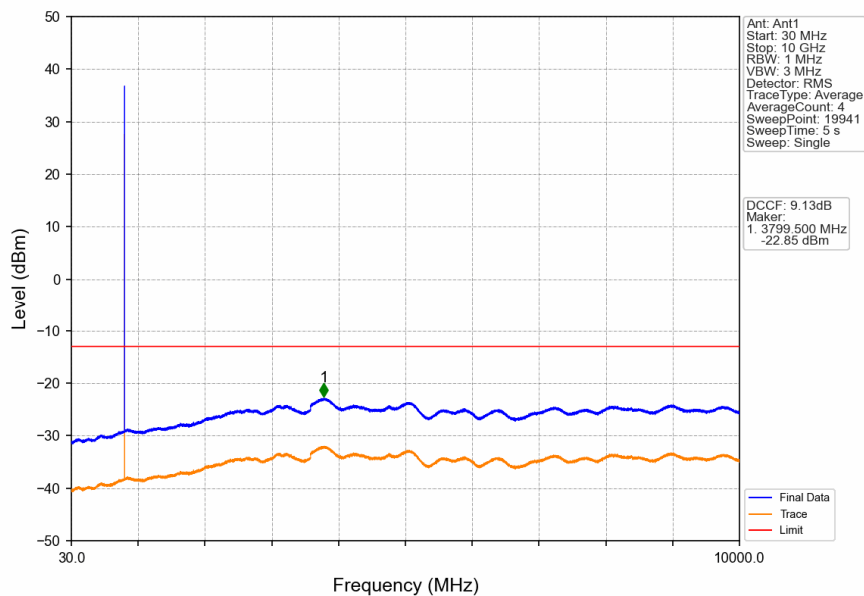
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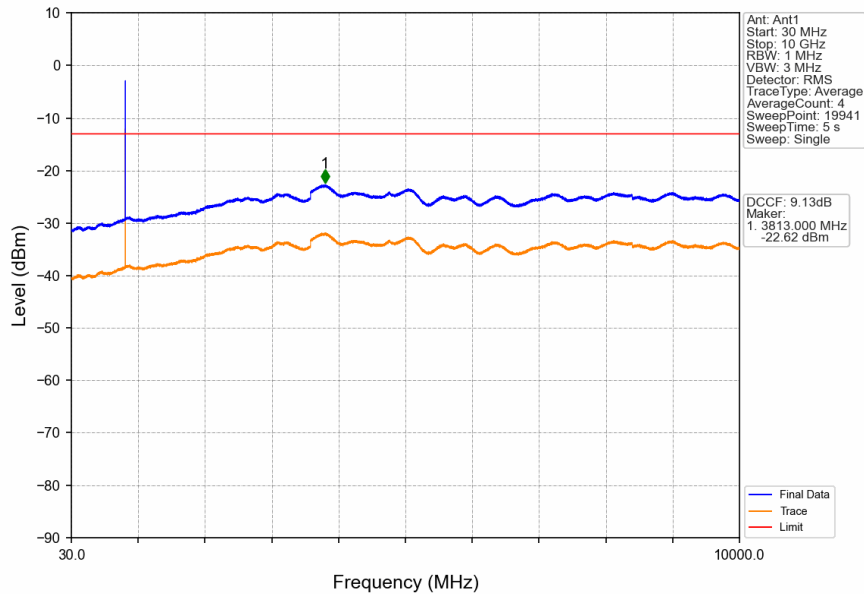
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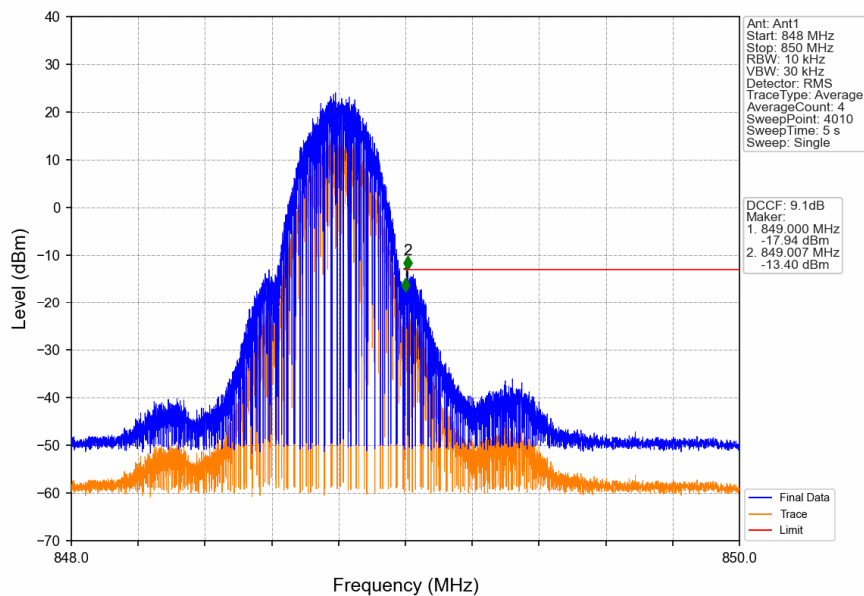
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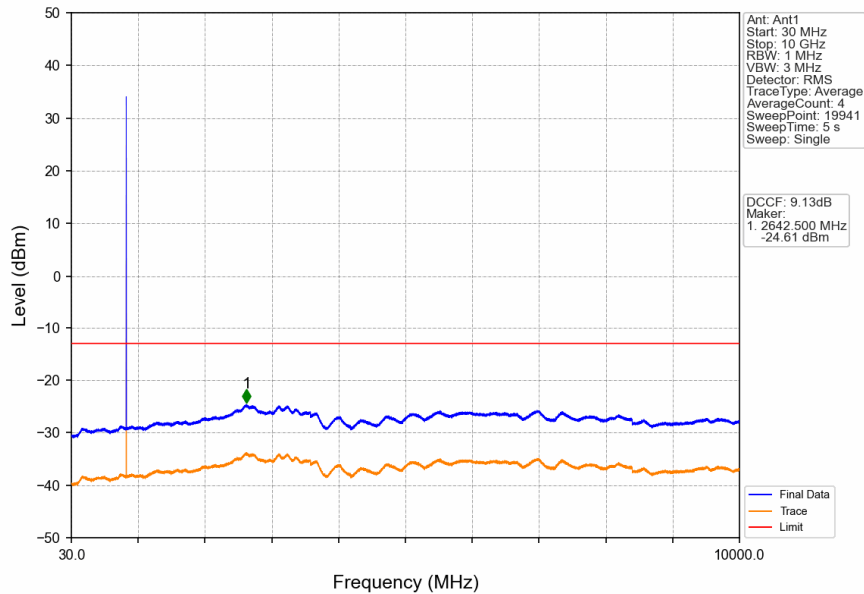
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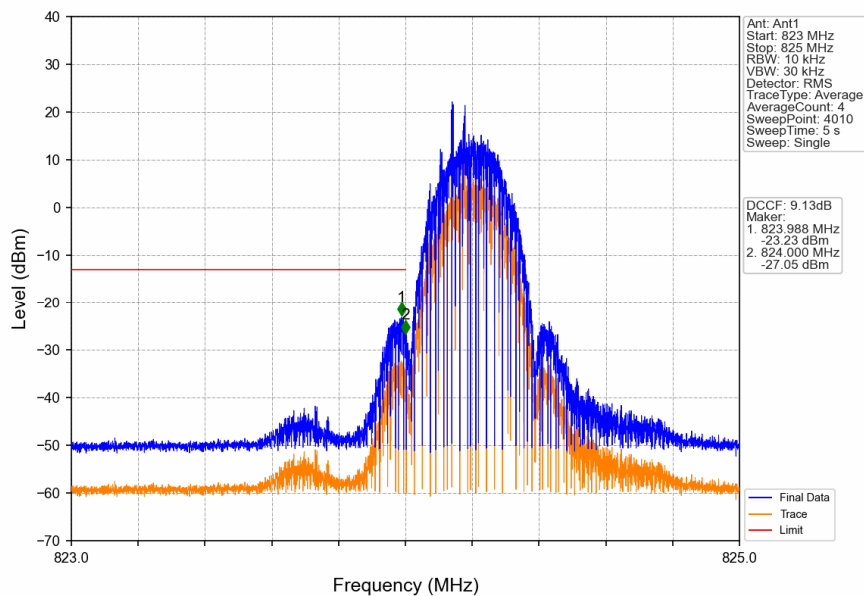
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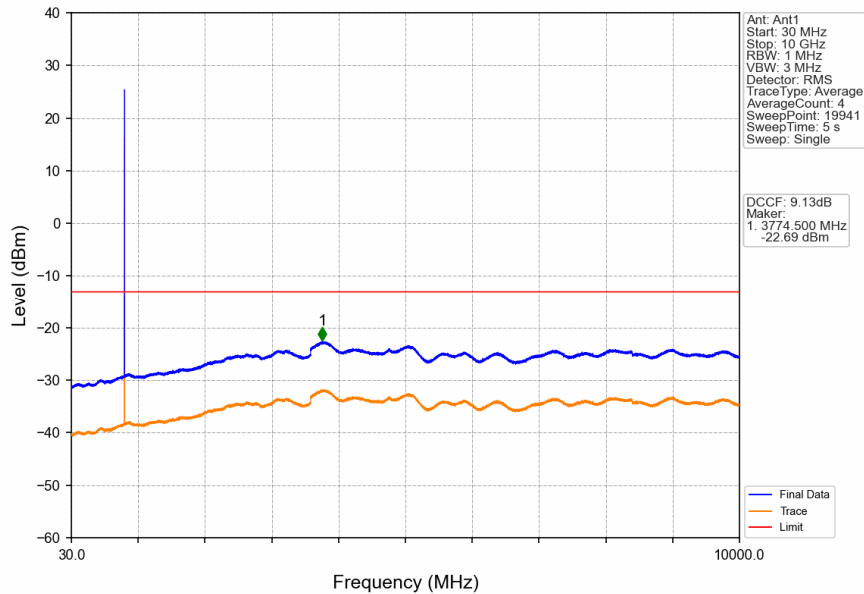
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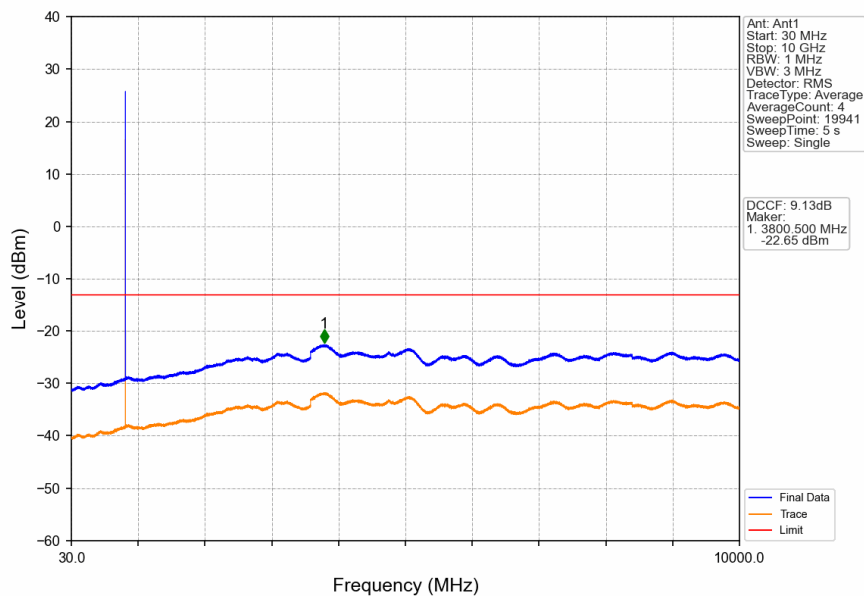
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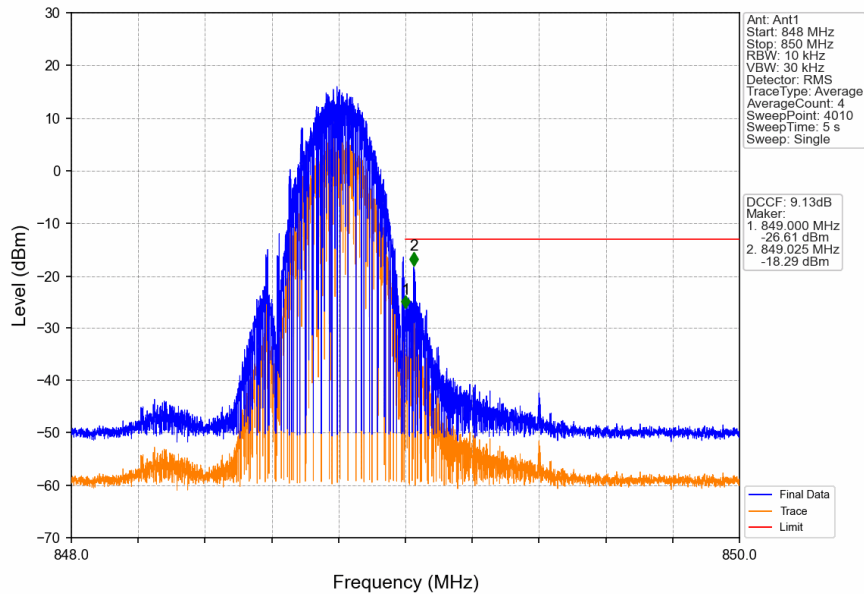
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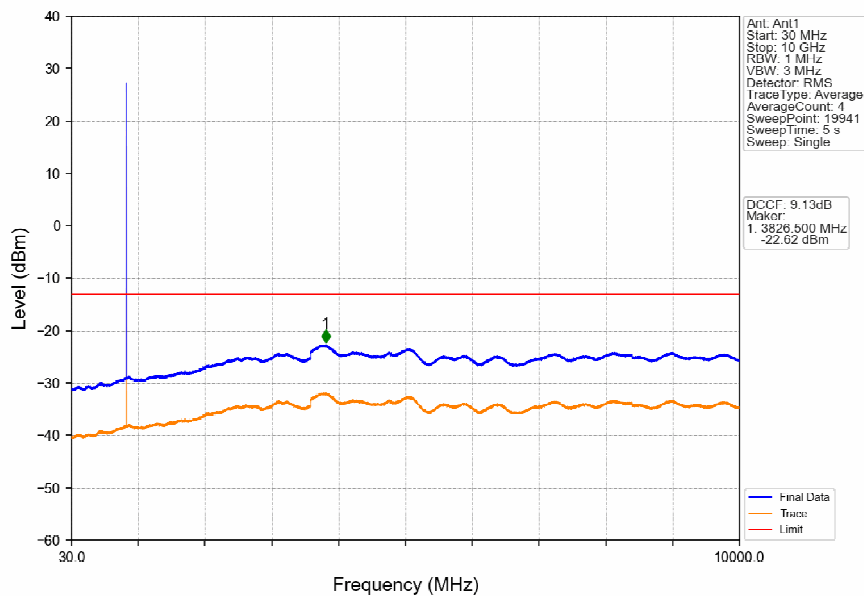
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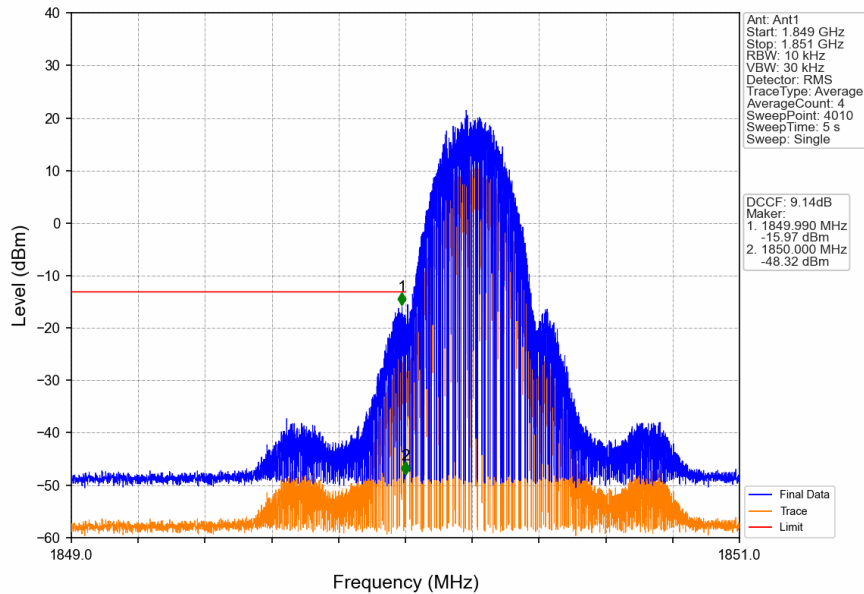
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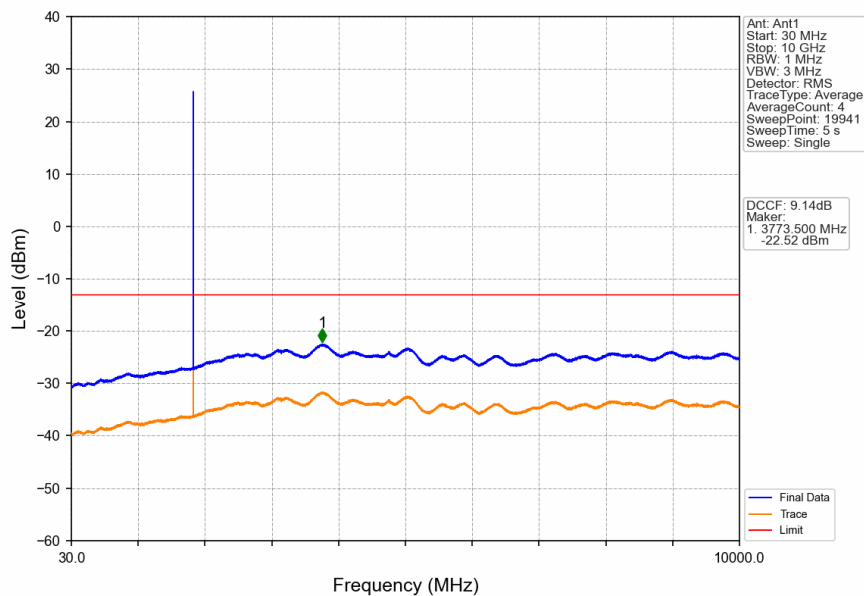
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PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



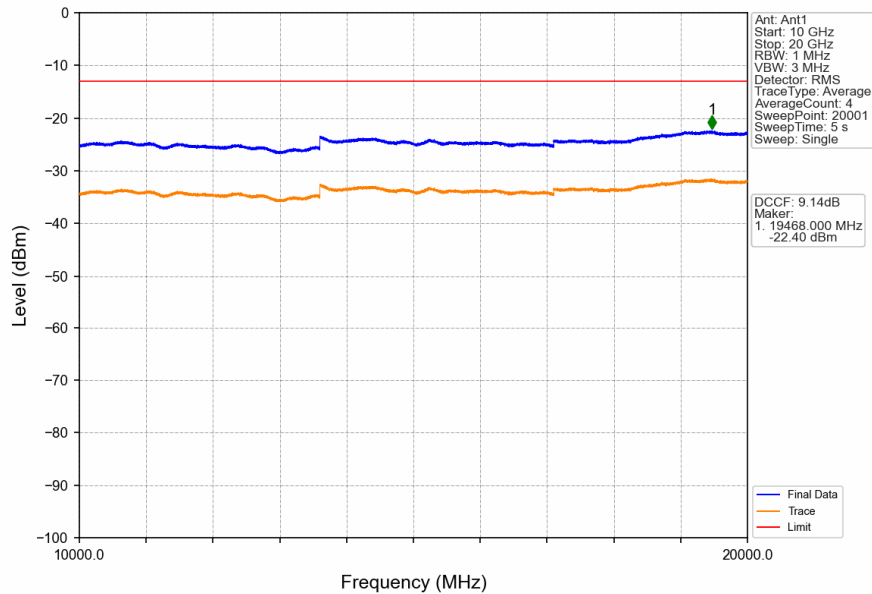
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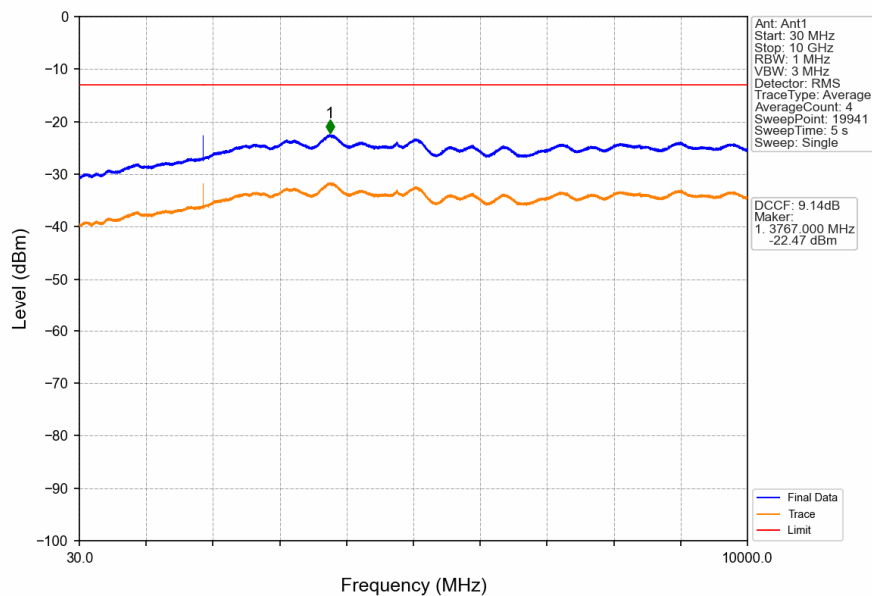
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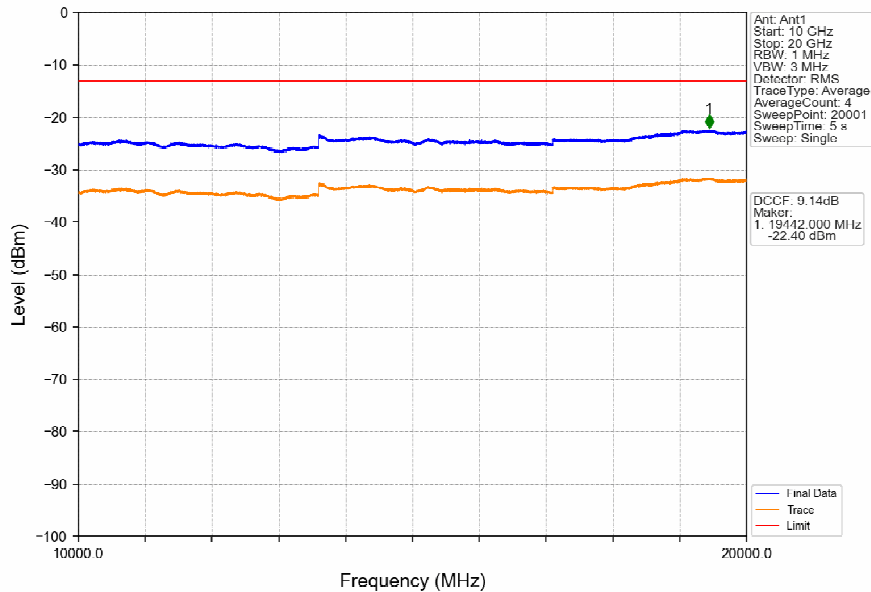
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



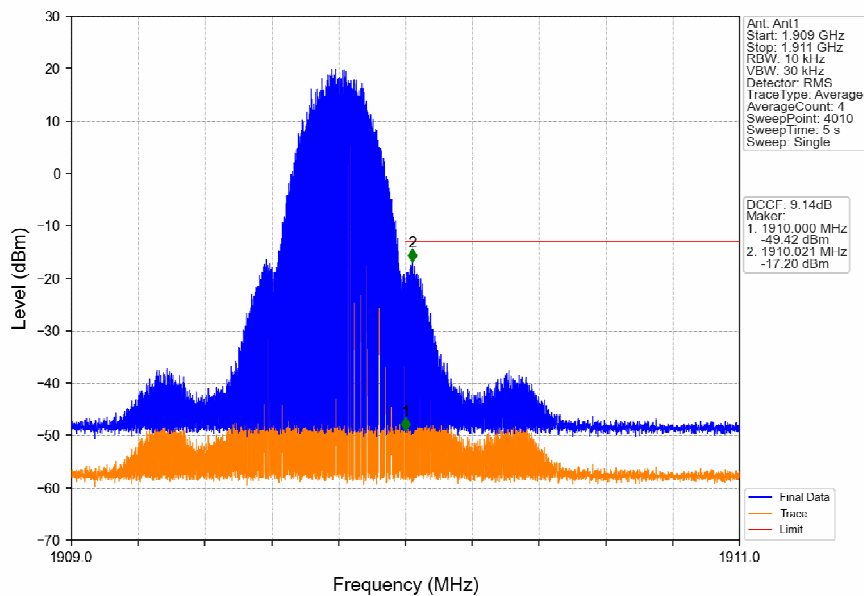
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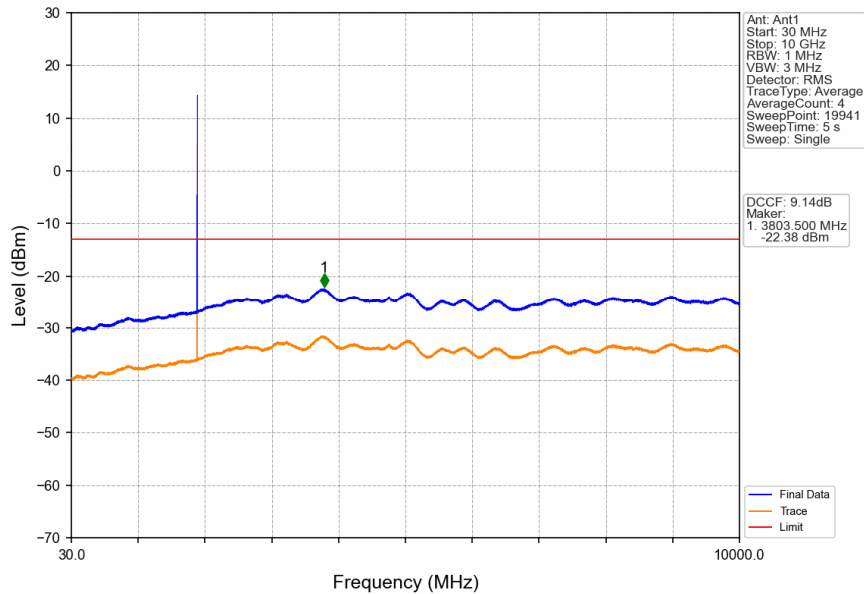
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



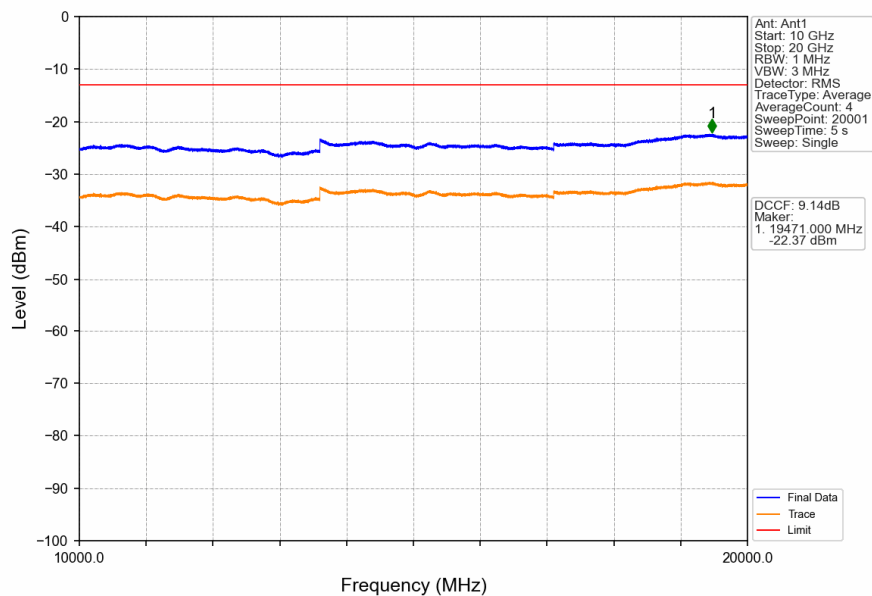
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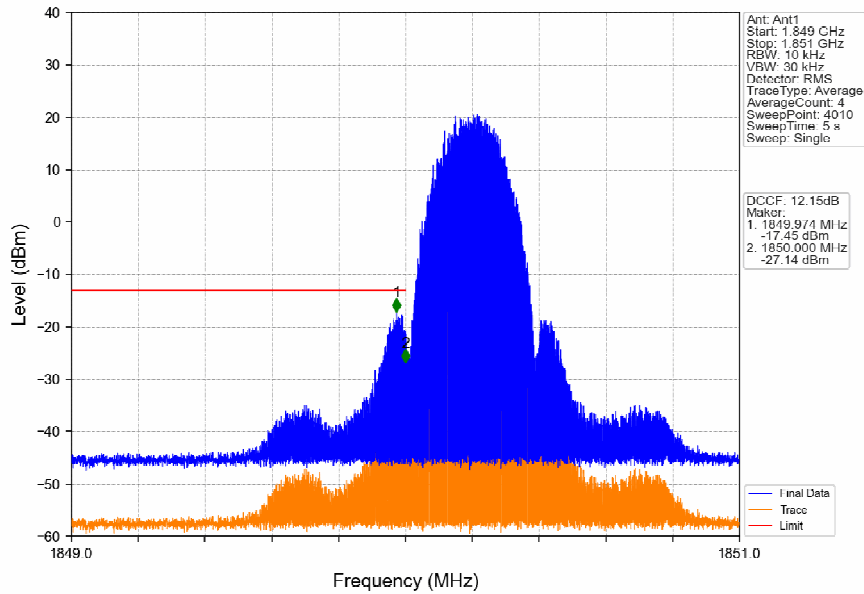
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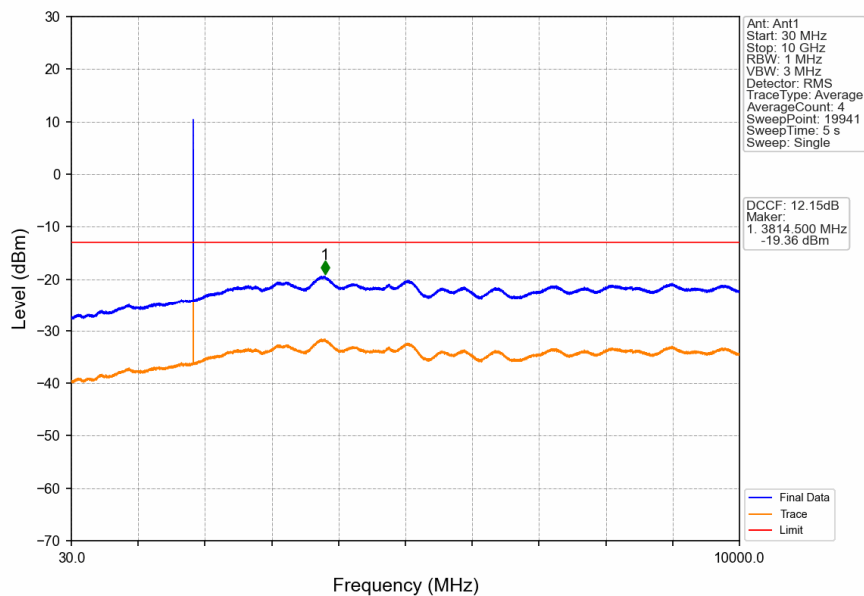
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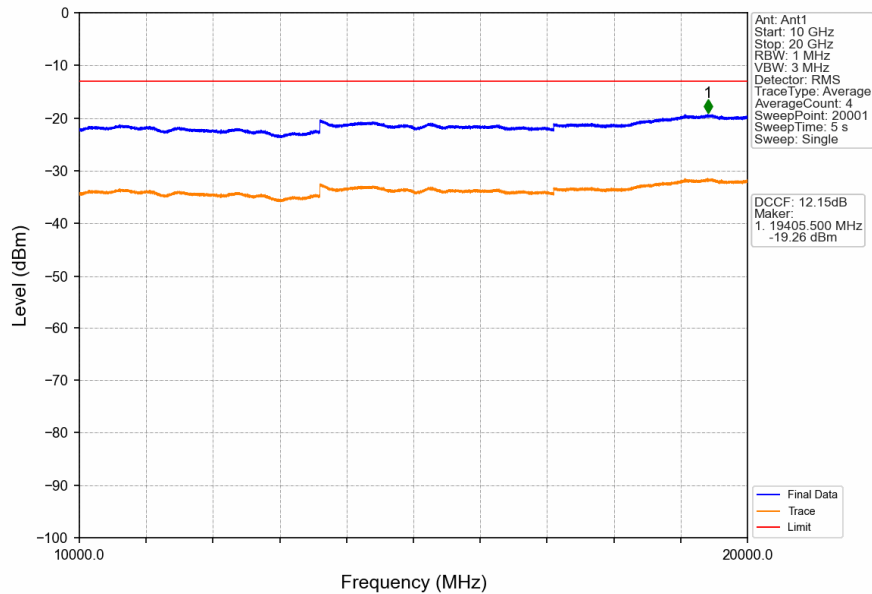
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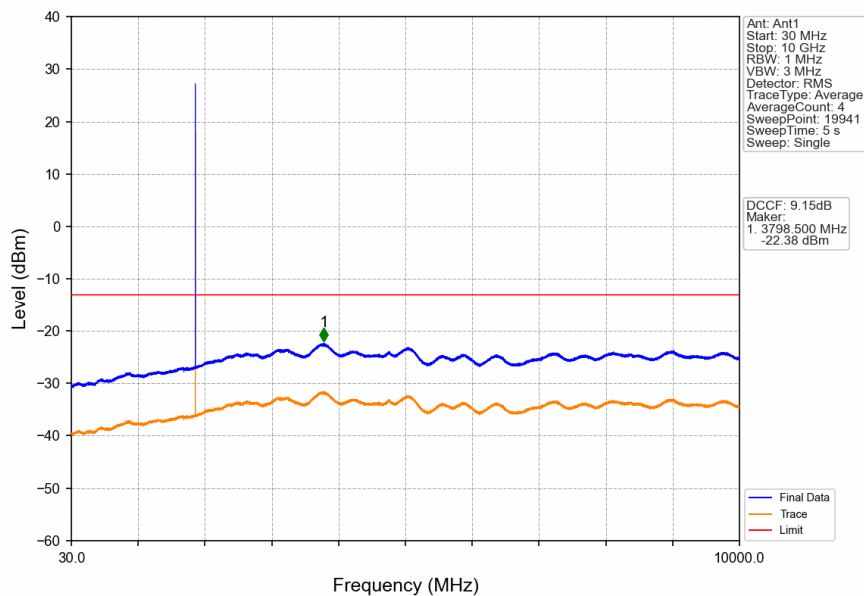
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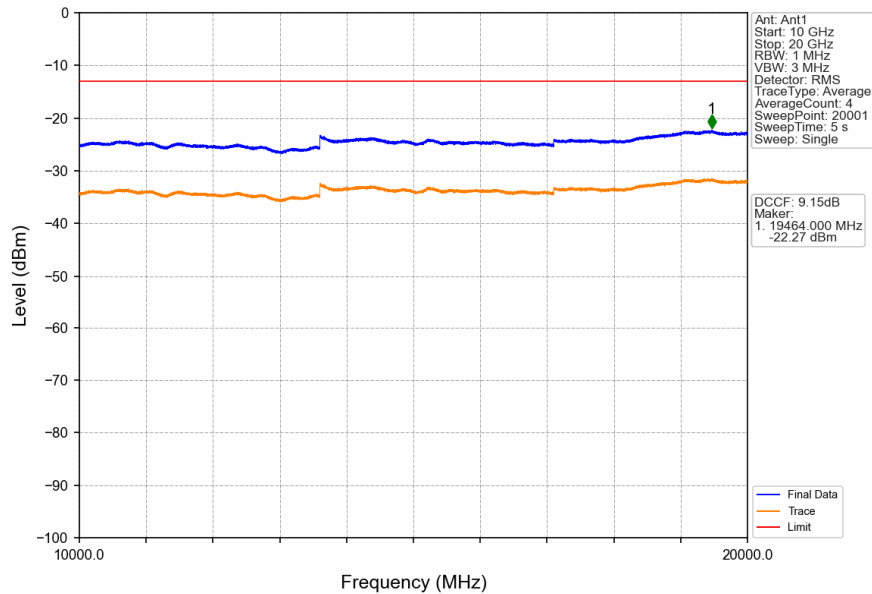
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



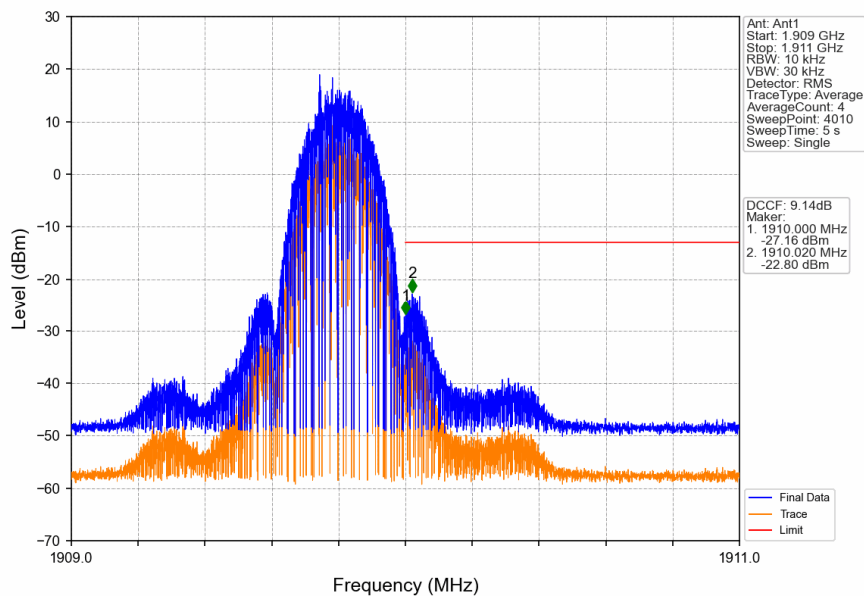
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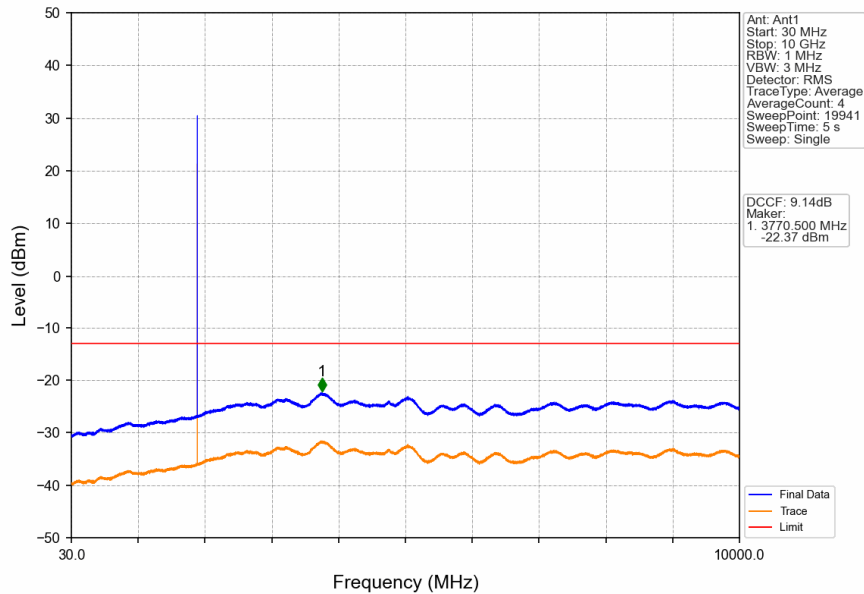


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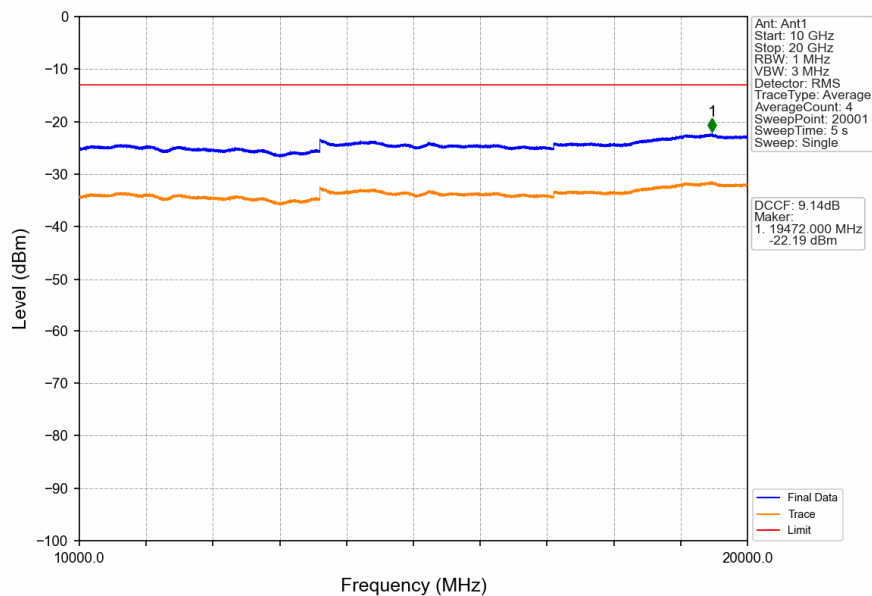
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Note: All modes have been tested and we found GSM Test mode has the worst test result. Only record the worst test result.



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5. Field strength of spurious radiation

GSM850-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	-55.21	-13	-42.21	-58.87	3.77	7.43	Horizontal	Pass
2479.2	-51.06	-13	-38.06	-53.39	4.75	7.08	Horizontal	Pass
3305.6	-48.62	-13	-35.62	-51.2	5.72	8.3	Horizontal	Pass
1652.8	-56.82	-13	-43.82	-60.48	3.77	7.43	Vertical	Pass
2479.2	-53.12	-13	-40.12	-55.45	4.75	7.08	Vertical	Pass
3305.6	-49.73	-13	-36.73	-52.31	5.72	8.3	Vertical	Pass

GSM850-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	-57.59	-13	-44.59	-61.25	3.77	7.43	Horizontal	Pass
2509.2	-52.39	-13	-39.39	-54.86	5.13	7.6	Horizontal	Pass
3345.6	-48.85	-13	-35.85	-51.43	5.72	8.3	Horizontal	Pass
1672.8	-56.2	-13	-43.2	-59.86	3.77	7.43	Vertical	Pass
2509.2	-52.34	-13	-39.34	-54.81	5.13	7.6	Vertical	Pass
3345.6	-49.49	-13	-36.49	-52.07	5.72	8.3	Vertical	Pass

GSM850-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	-55.48	-13	-42.48	-59.14	3.77	7.43	Horizontal	Pass
2539.8	-53.78	-13	-40.78	-56.25	5.13	7.6	Horizontal	Pass
3386.4	-48.32	-13	-35.32	-50.9	5.72	8.3	Horizontal	Pass
1693.2	-57.33	-13	-44.33	-60.99	3.77	7.43	Vertical	Pass
2539.8	-53.34	-13	-40.34	-55.81	5.13	7.6	Vertical	Pass
3386.4	-48.48	-13	-35.48	-51.06	5.72	8.3	Vertical	Pass



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PCS1900-Low channel								
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1652.8	-55.21	-13	-42.21	-58.87	3.77	7.43	Horizontal	Pass
2479.2	-51.06	-13	-38.06	-53.39	4.75	7.08	Horizontal	Pass
3305.6	-48.62	-13	-35.62	-51.2	5.72	8.3	Horizontal	Pass
1652.8	-56.82	-13	-43.82	-60.48	3.77	7.43	Vertical	Pass
2479.2	-53.12	-13	-40.12	-55.45	4.75	7.08	Vertical	Pass
3305.6	-49.73	-13	-36.73	-52.31	5.72	8.3	Vertical	Pass

PCS1900-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	-57.59	-13	-44.59	-61.25	3.77	7.43	Horizontal	Pass
2509.2	-52.39	-13	-39.39	-54.86	5.13	7.6	Horizontal	Pass
3345.6	-48.85	-13	-35.85	-51.43	5.72	8.3	Horizontal	Pass
1672.8	-56.2	-13	-43.2	-59.86	3.77	7.43	Vertical	Pass
2509.2	-52.34	-13	-39.34	-54.81	5.13	7.6	Vertical	Pass
3345.6	-49.49	-13	-36.49	-52.07	5.72	8.3	Vertical	Pass

PCS1900-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	-55.48	-13	-42.48	-59.14	3.77	7.43	Horizontal	Pass
2539.8	-53.78	-13	-40.78	-56.25	5.13	7.6	Horizontal	Pass
3386.4	-48.32	-13	-35.32	-50.9	5.72	8.3	Horizontal	Pass
1693.2	-57.33	-13	-44.33	-60.99	3.77	7.43	Vertical	Pass
2539.8	-53.34	-13	-40.34	-55.81	5.13	7.6	Vertical	Pass
3386.4	-48.48	-13	-35.48	-51.06	5.72	8.3	Vertical	Pass

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

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



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6. Frequency stability

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	824.2	20	VL	13.463	0.0163	-2.5 to 2.5	Pass
			VN	7.264	0.0088	-2.5 to 2.5	Pass
			VH	6.909	0.0084	-2.5 to 2.5	Pass
		-30	VN	8.879	0.0108	-2.5 to 2.5	Pass
			VN	6.167	0.0075	-2.5 to 2.5	Pass
			VN	10.654	0.0129	-2.5 to 2.5	Pass
		0	VN	6.005	0.0073	-2.5 to 2.5	Pass
			VN	1.969	0.0024	-2.5 to 2.5	Pass
			VN	4.455	0.0054	-2.5 to 2.5	Pass
		40	VN	8.620	0.0105	-2.5 to 2.5	Pass
			VN	9.589	0.0116	-2.5 to 2.5	Pass
			VN	7.587	0.0091	-2.5 to 2.5	Pass
	836.6	20	VN	6.974	0.0083	-2.5 to 2.5	Pass
			VH	9.524	0.0114	-2.5 to 2.5	Pass
			VN	5.618	0.0067	-2.5 to 2.5	Pass
		-30	VN	8.330	0.0100	-2.5 to 2.5	Pass
			VN	13.140	0.0157	-2.5 to 2.5	Pass
			VN	13.786	0.0165	-2.5 to 2.5	Pass
		0	VN	14.173	0.0169	-2.5 to 2.5	Pass
			VN	14.851	0.0178	-2.5 to 2.5	Pass
			VN	12.204	0.0146	-2.5 to 2.5	Pass
		40	VN	13.980	0.0167	-2.5 to 2.5	Pass
			VN	14.270	0.0168	-2.5 to 2.5	Pass
			VN	12.656	0.0149	-2.5 to 2.5	Pass
	848.8	20	VH	13.237	0.0156	-2.5 to 2.5	Pass
			VN	14.044	0.0165	-2.5 to 2.5	Pass
			VN	17.531	0.0207	-2.5 to 2.5	Pass
		-30	VN	10.331	0.0122	-2.5 to 2.5	Pass
			VN	17.047	0.0201	-2.5 to 2.5	Pass
			VN	13.786	0.0162	-2.5 to 2.5	Pass
		0	VN	11.526	0.0136	-2.5 to 2.5	Pass
			VN	8.653	0.0102	-2.5 to 2.5	Pass
			VN	17.499	0.0206	-2.5 to 2.5	Pass
		40	VN	15.723	0.0191	-2.5 to 2.5	Pass
			VN	18.112	0.0220	-2.5 to 2.5	Pass
			VH	17.467	0.0212	-2.5 to 2.5	Pass
EGPRS	824.2	20	VL	15.723	0.0191	-2.5 to 2.5	Pass
			VN	18.112	0.0220	-2.5 to 2.5	Pass
			VH	17.467	0.0212	-2.5 to 2.5	Pass



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		-30	VN	11.106	0.0135	-2.5 to 2.5	Pass
		-20	VN	10.751	0.0130	-2.5 to 2.5	Pass
		-10	VN	9.008	0.0109	-2.5 to 2.5	Pass
		0	VN	15.691	0.0190	-2.5 to 2.5	Pass
		10	VN	14.561	0.0177	-2.5 to 2.5	Pass
		30	VN	11.720	0.0142	-2.5 to 2.5	Pass
		40	VN	10.751	0.0130	-2.5 to 2.5	Pass
		50	VN	16.724	0.0203	-2.5 to 2.5	Pass
	836.6	20	VL	15.820	0.0189	-2.5 to 2.5	Pass
			VN	17.757	0.0212	-2.5 to 2.5	Pass
			VH	18.984	0.0227	-2.5 to 2.5	Pass
		-30	VN	13.302	0.0159	-2.5 to 2.5	Pass
		-20	VN	13.915	0.0166	-2.5 to 2.5	Pass
		-10	VN	14.593	0.0174	-2.5 to 2.5	Pass
		0	VN	15.562	0.0186	-2.5 to 2.5	Pass
		10	VN	16.595	0.0198	-2.5 to 2.5	Pass
		30	VN	12.947	0.0155	-2.5 to 2.5	Pass
		40	VN	17.402	0.0208	-2.5 to 2.5	Pass
		50	VN	17.112	0.0205	-2.5 to 2.5	Pass
	848.8	20	VL	19.501	0.0230	-2.5 to 2.5	Pass
			VN	18.274	0.0215	-2.5 to 2.5	Pass
			VH	19.081	0.0225	-2.5 to 2.5	Pass
		-30	VN	14.399	0.0170	-2.5 to 2.5	Pass
		-20	VN	18.177	0.0214	-2.5 to 2.5	Pass
		-10	VN	12.043	0.0142	-2.5 to 2.5	Pass
		0	VN	14.399	0.0170	-2.5 to 2.5	Pass
		10	VN	17.047	0.0201	-2.5 to 2.5	Pass
		30	VN	13.915	0.0164	-2.5 to 2.5	Pass
		40	VN	16.175	0.0191	-2.5 to 2.5	Pass
		50	VN	13.495	0.0159	-2.5 to 2.5	Pass

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	VL	18.177	0.0098	-2.5 to 2.5	Pass
			VN	8.620	0.0047	-2.5 to 2.5	Pass
			VH	2.228	0.0012	-2.5 to 2.5	Pass
		-30	VN	0.258	0.0001	-2.5 to 2.5	Pass
		-20	VN	9.912	0.0054	-2.5 to 2.5	Pass
		-10	VN	-2.195	-0.0012	-2.5 to 2.5	Pass



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		0	VN	4.455	0.0024	-2.5 to 2.5	Pass
		10	VN	-3.487	-0.0019	-2.5 to 2.5	Pass
		30	VN	12.850	0.0069	-2.5 to 2.5	Pass
		40	VN	10.525	0.0057	-2.5 to 2.5	Pass
		50	VN	10.913	0.0059	-2.5 to 2.5	Pass
	1880	20	VL	4.617	0.0025	-2.5 to 2.5	Pass
			VN	-11.139	-0.0059	-2.5 to 2.5	Pass
			VH	-12.753	-0.0068	-2.5 to 2.5	Pass
		-30	VN	-3.810	-0.0020	-2.5 to 2.5	Pass
		-20	VN	-5.973	-0.0032	-2.5 to 2.5	Pass
		-10	VN	-4.552	-0.0024	-2.5 to 2.5	Pass
		0	VN	-8.427	-0.0045	-2.5 to 2.5	Pass
		10	VN	-9.298	-0.0049	-2.5 to 2.5	Pass
		30	VN	-7.103	-0.0038	-2.5 to 2.5	Pass
		40	VN	-11.817	-0.0063	-2.5 to 2.5	Pass
		50	VN	-14.722	-0.0078	-2.5 to 2.5	Pass
	1909.8	20	VL	-9.395	-0.0049	-2.5 to 2.5	Pass
			VN	6.489	0.0034	-2.5 to 2.5	Pass
			VH	4.649	0.0024	-2.5 to 2.5	Pass
		-30	VN	3.035	0.0016	-2.5 to 2.5	Pass
		-20	VN	0.452	0.0002	-2.5 to 2.5	Pass
		-10	VN	0.872	0.0005	-2.5 to 2.5	Pass
		0	VN	0.775	0.0004	-2.5 to 2.5	Pass
		10	VN	4.552	0.0024	-2.5 to 2.5	Pass
		30	VN	-2.938	-0.0015	-2.5 to 2.5	Pass
		40	VN	10.105	0.0053	-2.5 to 2.5	Pass
		50	VN	4.520	0.0024	-2.5 to 2.5	Pass
EGPRS	1850.2	20	VL	22.439	0.0121	-2.5 to 2.5	Pass
			VN	12.139	0.0066	-2.5 to 2.5	Pass
			VH	16.853	0.0091	-2.5 to 2.5	Pass
		-30	VN	13.302	0.0072	-2.5 to 2.5	Pass
		-20	VN	11.784	0.0064	-2.5 to 2.5	Pass
		-10	VN	25.667	0.0139	-2.5 to 2.5	Pass
		0	VN	17.370	0.0094	-2.5 to 2.5	Pass
		10	VN	9.815	0.0053	-2.5 to 2.5	Pass
		30	VN	19.016	0.0103	-2.5 to 2.5	Pass
		40	VN	10.977	0.0059	-2.5 to 2.5	Pass
		50	VN	18.823	0.0102	-2.5 to 2.5	Pass
	1880	20	VL	11.494	0.0061	-2.5 to 2.5	Pass
			VN	8.039	0.0043	-2.5 to 2.5	Pass



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			VH	-3.196	-0.0017	-2.5 to 2.5	Pass
		-30	VN	4.649	0.0025	-2.5 to 2.5	Pass
		-20	VN	7.006	0.0037	-2.5 to 2.5	Pass
		-10	VN	1.550	0.0008	-2.5 to 2.5	Pass
		0	VN	1.065	0.0006	-2.5 to 2.5	Pass
		10	VN	9.944	0.0053	-2.5 to 2.5	Pass
		30	VN	-1.098	-0.0006	-2.5 to 2.5	Pass
		40	VN	-2.421	-0.0013	-2.5 to 2.5	Pass
		50	VN	7.426	0.0040	-2.5 to 2.5	Pass
	1909.8	20	VL	-1.647	-0.0009	-2.5 to 2.5	Pass
			VN	4.423	0.0023	-2.5 to 2.5	Pass
			VH	5.844	0.0031	-2.5 to 2.5	Pass
		-30	VN	14.109	0.0074	-2.5 to 2.5	Pass
		-20	VN	3.681	0.0019	-2.5 to 2.5	Pass
		-10	VN	5.069	0.0027	-2.5 to 2.5	Pass
		0	VN	13.011	0.0068	-2.5 to 2.5	Pass
		10	VN	5.424	0.0028	-2.5 to 2.5	Pass
		30	VN	4.488	0.0023	-2.5 to 2.5	Pass
		40	VN	15.045	0.0079	-2.5 to 2.5	Pass
		50	VN	9.783	0.0051	-2.5 to 2.5	Pass

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

- End of the Report -



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