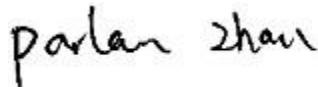


TEST REPORT

Application No.:	SHCR2208001794CO
FCC ID:	2A826RTK-EG25G
Applicant:	Vivax-Metrotech (Shanghai) Ltd.
Address of Applicant:	3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Manufacturer:	Vivax-Metrotech (Shanghai) Ltd.
Address of Manufacturer:	3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Factory:	Vivax-Metrotech (Shanghai) Ltd.
Address of Factory:	3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Equipment Under Test (EUT):	
EUT Name:	Pipe and Cable Locator
Model No.:	vLoc3 RTK-Pro
Standard(s) :	47 CFR Part 2 47 CFR Part 22 subpart H 47 CFR Part 24 subpart E
Date of Receipt:	2022-08-24
Date of Test:	2022-10-01 to 2022-11-28
Date of Issue:	2022-12-02
Test Result:	Pass*

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



Parlam Zhan
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-12-02	/

Authorized for issue by:				
		Bill Wu		
		Bill Wu /Project Engineer		
		Parlam Zhan		
		Parlam Zhan /Reviewer		



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913, §24.232	ERP≤7W(GSM850) EIRP≤2W(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
Radiated spurious emissions	§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 7.2V 6700mAh rechargeable battery Charging adapter: Model:GM36-084200-2 Input:100-240V~50/60Hz Output:8.4V 2A
Test voltage:	DC 7.2V
Serial Number:	22601181026
Firmware version:	1.41 Release
Sample Type:	Portable production
Support Network:	GPRS, EGPRS
Operation Frequency Band:	GSM850/GSM1900
Modulation Type:	GMSK for GPRS/EGPRS 8PSK for EGPRS
GPRS Class:	12
EGPRS Class:	12
Antenna Type:	FPC Antenna
Antenna Gain:	GSM850: 0.4dBi (Provided by the manufacturer) GSM1900: 2.3dBi (Provided by the manufacturer)
Extreme temp. Tolerance:	-30°C to +50°C
Extreme vol. Limits:	6.12V DC to 8.28V DC (nominal: 7.2V DC)
IMEI:	861861041244024



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4.2 Test Frequency

Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
GSM850	TX	Channel 128	Channel 190	Channel 251
		824.2MHz	836.6 MHz	848.8 MHz
	RX	Channel 128	Channel 190	Channel 251
		869.2 MHz	881.6 MHz	893.8 MHz
Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
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

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	48%	
Atmospheric Pressure:	101kPa	
Temperature:	TN	25 °C
Voltage:	VL	6.12V
	VN	7.20V
	VH	8.28V

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage

TN= normal temperature

4.4 Description of Support Units

The EUT has been tested as an independent unit.



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4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
8	RF Radiated power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious emission test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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4.6 Test Location

All tests were performed at:

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Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.7 Test Facility

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

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory Company Number: 8617A

- **VCCI (Member No.: 3061)**

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4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2021-12-20	2022-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2020-04-15	2023-04-14
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2021-12-20	2022-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2021-12-20	2022-12-19
Conducted test Cable	/	RF01~RF04	/	2021-12-20	2022-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2021-12-20	2022-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2021-12-20	2022-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2021-05-07	2023-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022/8/11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2021-12-20	2022-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2022-01-07	2023-01-06
Test software	ESE	E3	Version: 6.111221a	/	/

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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: $ERP \leq 7W$ (GSM850); $EIRP \leq 2W$ (GSM1900)

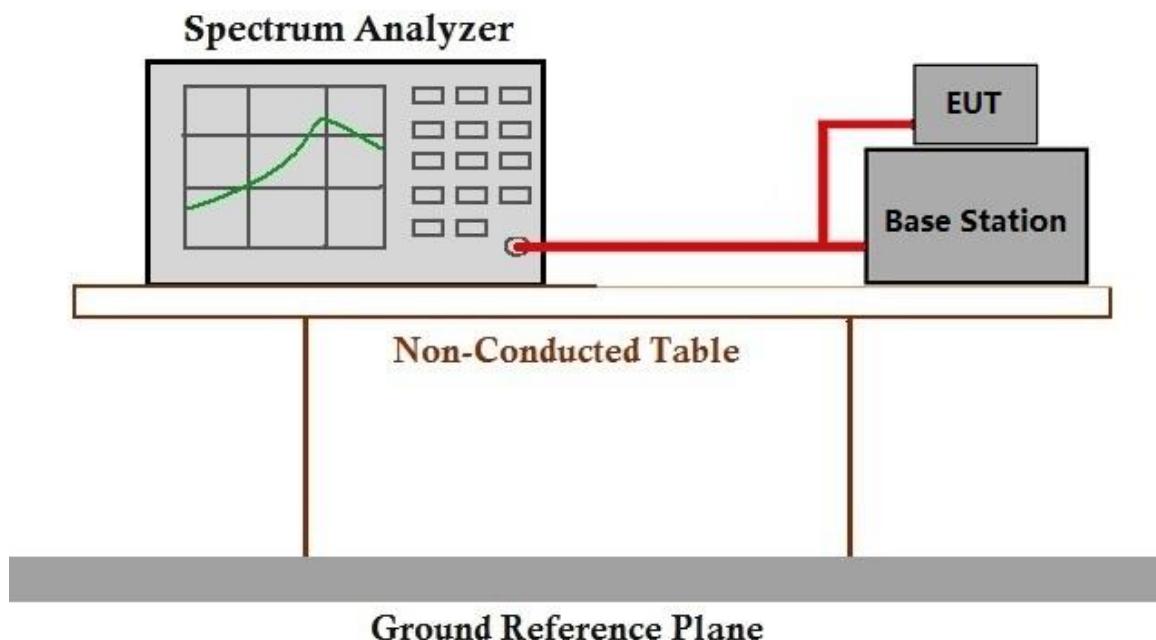
6.1.1 E.U.T. Operation

Operating Environment:

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

Test mode: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement 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

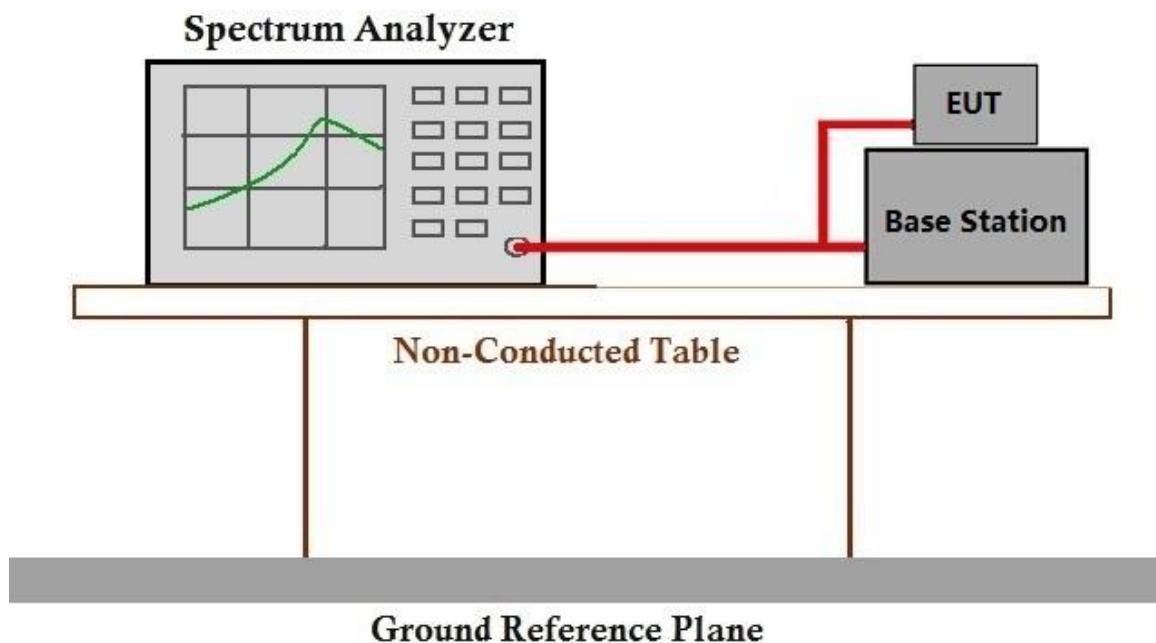
6.2.1 E.U.T. Operation

Operating Environment:

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

Test mode: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please Refer to Appendix for Details



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6.3 Bandwidth

Test Requirement: §2.1049(h), §22.917, §24.238

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

Limit: OBW: No limit

EBW: No limit

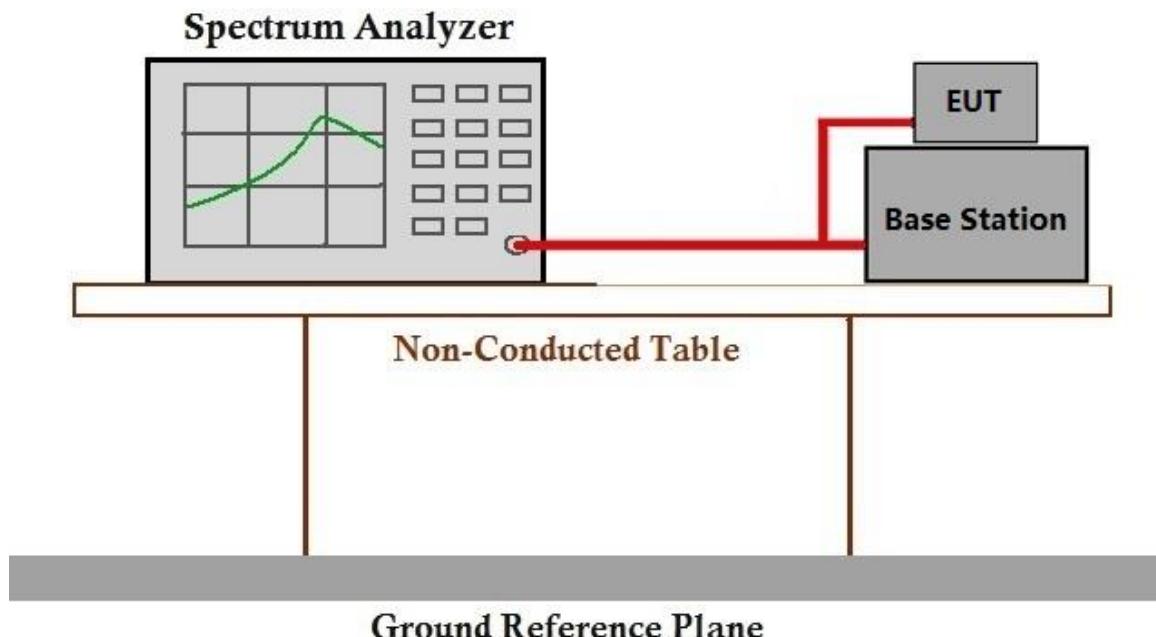
6.3.1 E.U.T. Operation

Operating Environment:

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

Test mode: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

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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: $\leq -13\text{dBm}/1\% \times \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.

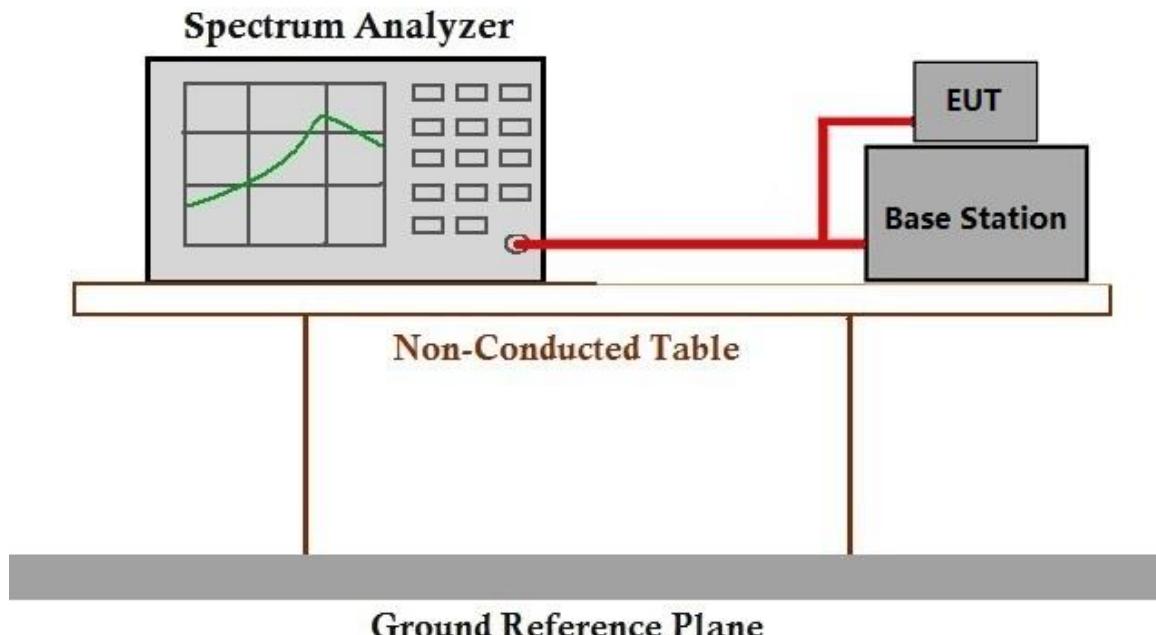
6.4.1 E.U.T. Operation

Operating Environment:

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

Test mode: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238

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

Limit: ≤ -13dBm

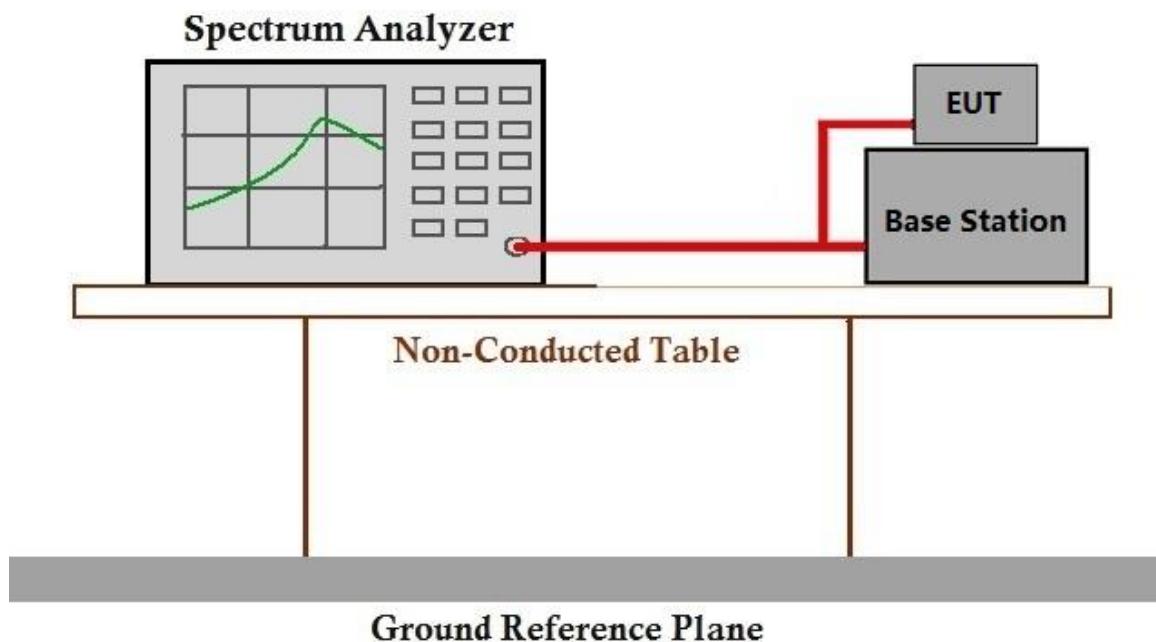
6.5.1 E.U.T. Operation

Operating Environment:

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

Test mode: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

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6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238,

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

Limit: ≤ -13dBm

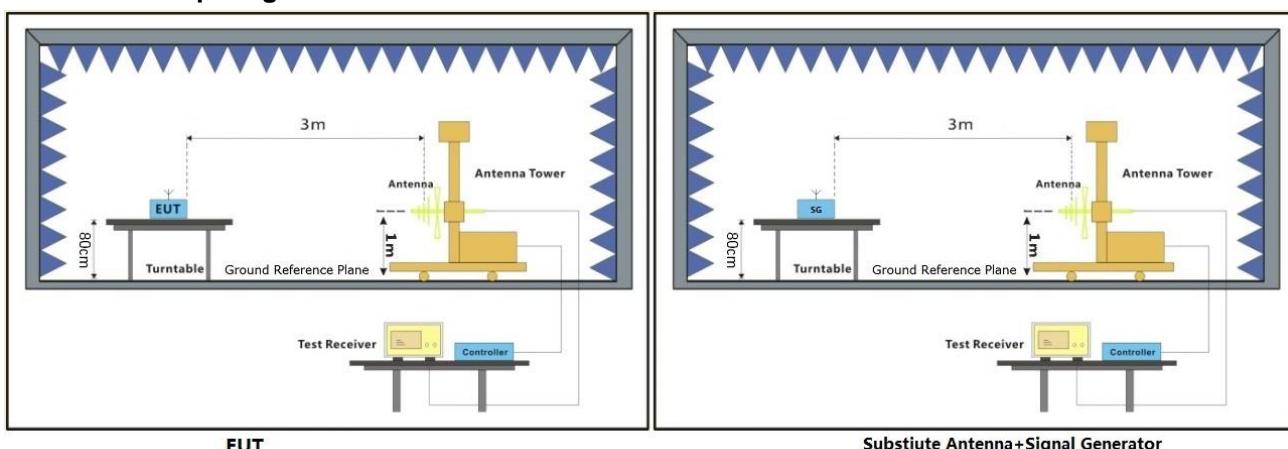
6.6.1 E.U.T. Operation

Operating Environment:

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

Test mode: 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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GSM850-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1648.400	-52.33	-13	-39.33	Horizontal
2472.600	-60.65	-13	-47.65	Horizontal
3296.800	-53.29	-13	-40.29	Horizontal
1648.400	-52.81	-13	-39.81	Vertical
2472.600	-59.16	-13	-46.16	Vertical
3296.800	-56.34	-13	-43.34	Vertical

GSM850-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1672.800	-59.77	-13	-46.77	Horizontal
2509.200	-58.69	-13	-45.69	Horizontal
3345.600	-56.58	-13	-43.58	Horizontal
1672.800	-54.27	-13	-41.27	Vertical
2509.200	-57.97	-13	-44.97	Vertical
3345.600	-55.57	-13	-42.57	Vertical

GSM850-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1697.600	-54.89	-13	-41.89	Horizontal
2546.400	-62.97	-13	-49.97	Horizontal
3395.200	-54.44	-13	-41.44	Horizontal
1697.600	-54.99	-13	-41.99	Vertical
2546.400	-58.10	-13	-45.10	Vertical
3395.200	-53.52	-13	-40.52	Vertical



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GSM1900-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3700.400	-45.39	-13	-32.39	Horizontal
5550.600	-47.65	-13	-34.65	Horizontal
7400.800	-45.92	-13	-32.92	Horizontal
3700.400	-52.38	-13	-39.38	Vertical
5550.600	-49.25	-13	-36.25	Vertical
7400.800	-47.72	-13	-34.72	Vertical

GSM1900-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3760.000	-42.13	-13	-29.13	Horizontal
5640.000	-51.17	-13	-38.17	Horizontal
7520.000	-47.43	-13	-34.43	Horizontal
3760.000	-43.50	-13	-30.50	Vertical
5640.000	-51.63	-13	-38.63	Vertical
7520.000	-45.21	-13	-32.21	Vertical

GSM1900-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3819.600	-48.37	-13	-35.37	Horizontal
5729.400	-47.57	-13	-34.57	Horizontal
7639.200	-42.02	-13	-29.02	Horizontal
3819.600	-48.24	-13	-35.24	Vertical
5729.400	-53.19	-13	-40.19	Vertical
7639.200	-40.27	-13	-27.27	Vertical

Remark:

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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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: $\leq \pm 2.5\text{ppm}$.

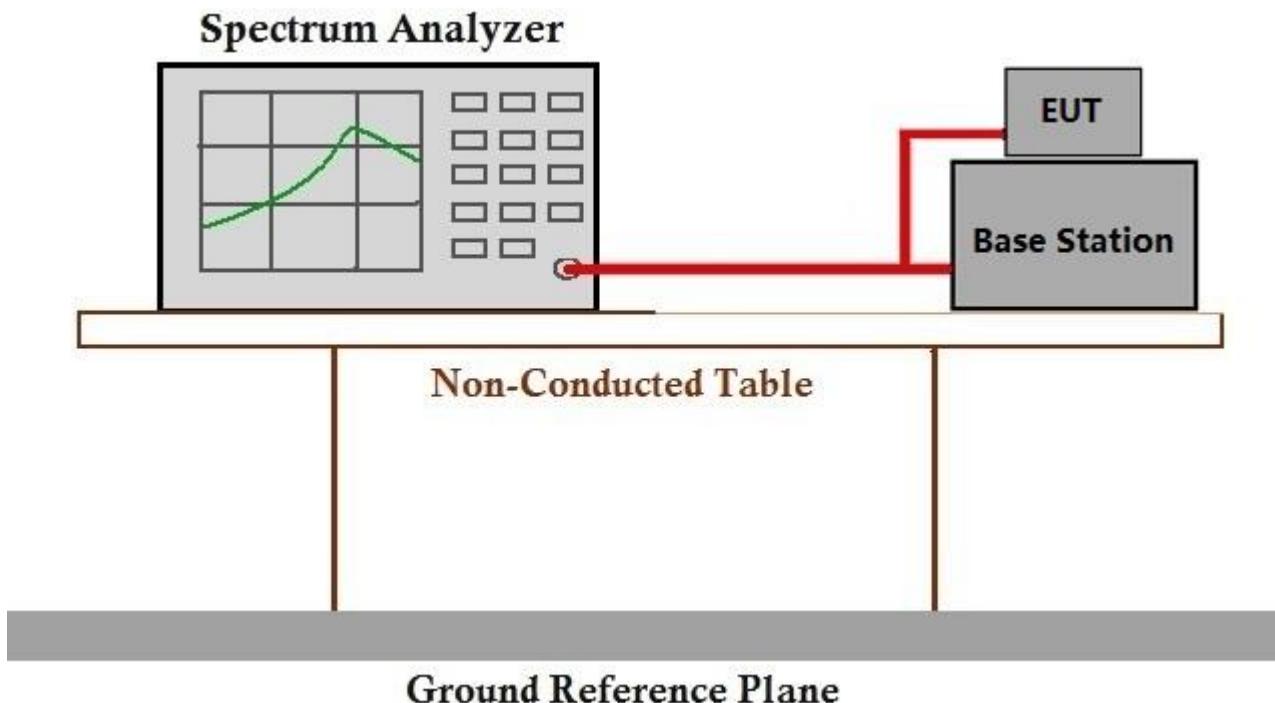
6.7.1 E.U.T. Operation

Operating Environment:

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

Test mode: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please Refer to Appendix for Details



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6.8 Modulation Characteristics

Test Requirement: §2.1047

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

Limit: Digital modulation

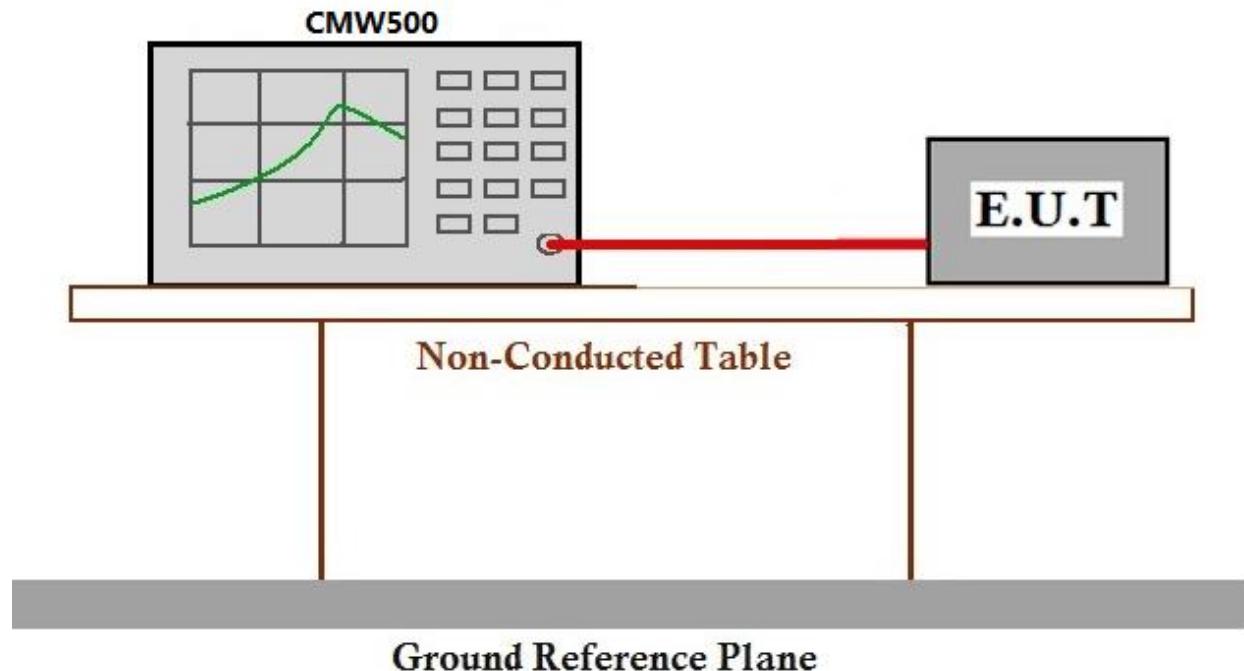
6.8.1 E.U.T. Operation

Operating Environment:

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

Test mode: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2208001794CO

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2208001794CO



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9 Appendix

Appendix for GSM 850

1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 Test Result

Band: GSM850								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
GPRS	NTNV	1 TX Slot	824.2	31.61	0.40	29.86	<=38.45	Pass
		2 TX Slots	824.2	29.62	0.40	27.87	<=38.45	Pass
		3 TX Slots	824.2	28.53	0.40	26.78	<=38.45	Pass
		4 TX Slots	824.2	27.50	0.40	25.75	<=38.45	Pass
		1 TX Slot	836.6	31.67	0.40	29.92	<=38.45	Pass
		2 TX Slots	836.6	30.78	0.40	29.03	<=38.45	Pass
		3 TX Slots	836.6	29.67	0.40	27.92	<=38.45	Pass
		4 TX Slots	836.6	27.02	0.40	25.27	<=38.45	Pass
		1 TX Slot	848.8	31.80	0.40	30.05	<=38.45	Pass
		2 TX Slots	848.8	31.79	0.40	30.04	<=38.45	Pass
		3 TX Slots	848.8	29.50	0.40	27.75	<=38.45	Pass
		4 TX Slots	848.8	28.97	0.40	27.22	<=38.45	Pass
EGPRS	NTNV	1 TX Slot	824.2	25.47	0.40	23.72	<=38.45	Pass
		2 TX Slots	824.2	25.66	0.40	23.91	<=38.45	Pass
		3 TX Slots	824.2	25.17	0.40	23.42	<=38.45	Pass
		4 TX Slots	824.2	24.90	0.40	23.15	<=38.45	Pass
		1 TX Slot	836.6	25.43	0.40	23.68	<=38.45	Pass
		2 TX Slots	836.6	25.51	0.40	23.76	<=38.45	Pass
		3 TX Slots	836.6	24.99	0.40	23.24	<=38.45	Pass
		4 TX Slots	836.6	24.91	0.40	23.16	<=38.45	Pass
		1 TX Slot	848.8	25.56	0.40	23.81	<=38.45	Pass
		2 TX Slots	848.8	25.44	0.40	23.69	<=38.45	Pass
		3 TX Slots	848.8	24.96	0.40	23.21	<=38.45	Pass
		4 TX Slots	848.8	24.86	0.40	23.11	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.1 GSM850

2.1.1 Test Result

Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	824.2	20	6.12	19.605	0.0238	-2.5 to 2.5	Pass
			7.20	34.718	0.0421	-2.5 to 2.5	Pass
			8.28	28.420	0.0345	-2.5 to 2.5	Pass
		-30	7.20	28.503	0.0346	-2.5 to 2.5	Pass
		-20	7.20	30.008	0.0364	-2.5 to 2.5	Pass
		-10	7.20	29.619	0.0359	-2.5 to 2.5	Pass
		0	7.20	33.937	0.0412	-2.5 to 2.5	Pass
		10	7.20	33.541	0.0407	-2.5 to 2.5	Pass
		30	7.20	33.182	0.0403	-2.5 to 2.5	Pass
		40	7.20	33.725	0.0409	-2.5 to 2.5	Pass
GPRS	836.6	20	6.12	31.812	0.0380	-2.5 to 2.5	Pass
			7.20	34.204	0.0409	-2.5 to 2.5	Pass
			8.28	28.663	0.0343	-2.5 to 2.5	Pass
		-30	7.20	33.204	0.0397	-2.5 to 2.5	Pass
		-20	7.20	28.299	0.0338	-2.5 to 2.5	Pass
		-10	7.20	28.292	0.0338	-2.5 to 2.5	Pass
		0	7.20	33.285	0.0398	-2.5 to 2.5	Pass
		10	7.20	32.980	0.0394	-2.5 to 2.5	Pass
		30	7.20	35.747	0.0427	-2.5 to 2.5	Pass
		40	7.20	27.884	0.0333	-2.5 to 2.5	Pass
GPRS	848.8	20	6.12	35.882	0.0423	-2.5 to 2.5	Pass
			7.20	33.723	0.0397	-2.5 to 2.5	Pass
			8.28	27.909	0.0329	-2.5 to 2.5	Pass
		-30	7.20	26.107	0.0308	-2.5 to 2.5	Pass
		-20	7.20	30.088	0.0354	-2.5 to 2.5	Pass
		-10	7.20	26.636	0.0314	-2.5 to 2.5	Pass
		0	7.20	32.658	0.0385	-2.5 to 2.5	Pass
		10	7.20	34.703	0.0409	-2.5 to 2.5	Pass
		30	7.20	29.668	0.0350	-2.5 to 2.5	Pass

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		40	7.20	31.166	0.0367	-2.5 to 2.5	Pass
		50	7.20	35.147	0.0414	-2.5 to 2.5	Pass
824.2	EGPRS	20	6.12	34.554	0.0419	-2.5 to 2.5	Pass
			7.20	41.045	0.0498	-2.5 to 2.5	Pass
			8.28	28.403	0.0345	-2.5 to 2.5	Pass
		-30	7.20	30.857	0.0374	-2.5 to 2.5	Pass
		-20	7.20	29.064	0.0353	-2.5 to 2.5	Pass
		-10	7.20	25.552	0.0310	-2.5 to 2.5	Pass
		0	7.20	26.782	0.0325	-2.5 to 2.5	Pass
		10	7.20	24.982	0.0303	-2.5 to 2.5	Pass
		30	7.20	36.027	0.0437	-2.5 to 2.5	Pass
		40	7.20	33.743	0.0409	-2.5 to 2.5	Pass
		50	7.20	38.758	0.0470	-2.5 to 2.5	Pass
		20	6.12	37.482	0.0448	-2.5 to 2.5	Pass
			7.20	35.550	0.0425	-2.5 to 2.5	Pass
			8.28	36.353	0.0435	-2.5 to 2.5	Pass
		-30	7.20	35.732	0.0427	-2.5 to 2.5	Pass
		-20	7.20	29.486	0.0352	-2.5 to 2.5	Pass
		-10	7.20	28.258	0.0338	-2.5 to 2.5	Pass
		0	7.20	28.656	0.0343	-2.5 to 2.5	Pass
		10	7.20	28.437	0.0340	-2.5 to 2.5	Pass
		30	7.20	23.442	0.0280	-2.5 to 2.5	Pass
		40	7.20	26.176	0.0313	-2.5 to 2.5	Pass
		50	7.20	25.258	0.0302	-2.5 to 2.5	Pass
		20	6.12	28.966	0.0341	-2.5 to 2.5	Pass
			7.20	24.858	0.0293	-2.5 to 2.5	Pass
			8.28	23.677	0.0279	-2.5 to 2.5	Pass
		-30	7.20	24.843	0.0293	-2.5 to 2.5	Pass
		-20	7.20	22.453	0.0265	-2.5 to 2.5	Pass
		-10	7.20	26.817	0.0316	-2.5 to 2.5	Pass
		0	7.20	31.453	0.0371	-2.5 to 2.5	Pass
		10	7.20	28.408	0.0335	-2.5 to 2.5	Pass
		30	7.20	26.633	0.0314	-2.5 to 2.5	Pass
		40	7.20	27.605	0.0325	-2.5 to 2.5	Pass
		50	7.20	25.128	0.0296	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 GSM850



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3.1.1 Test Result

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

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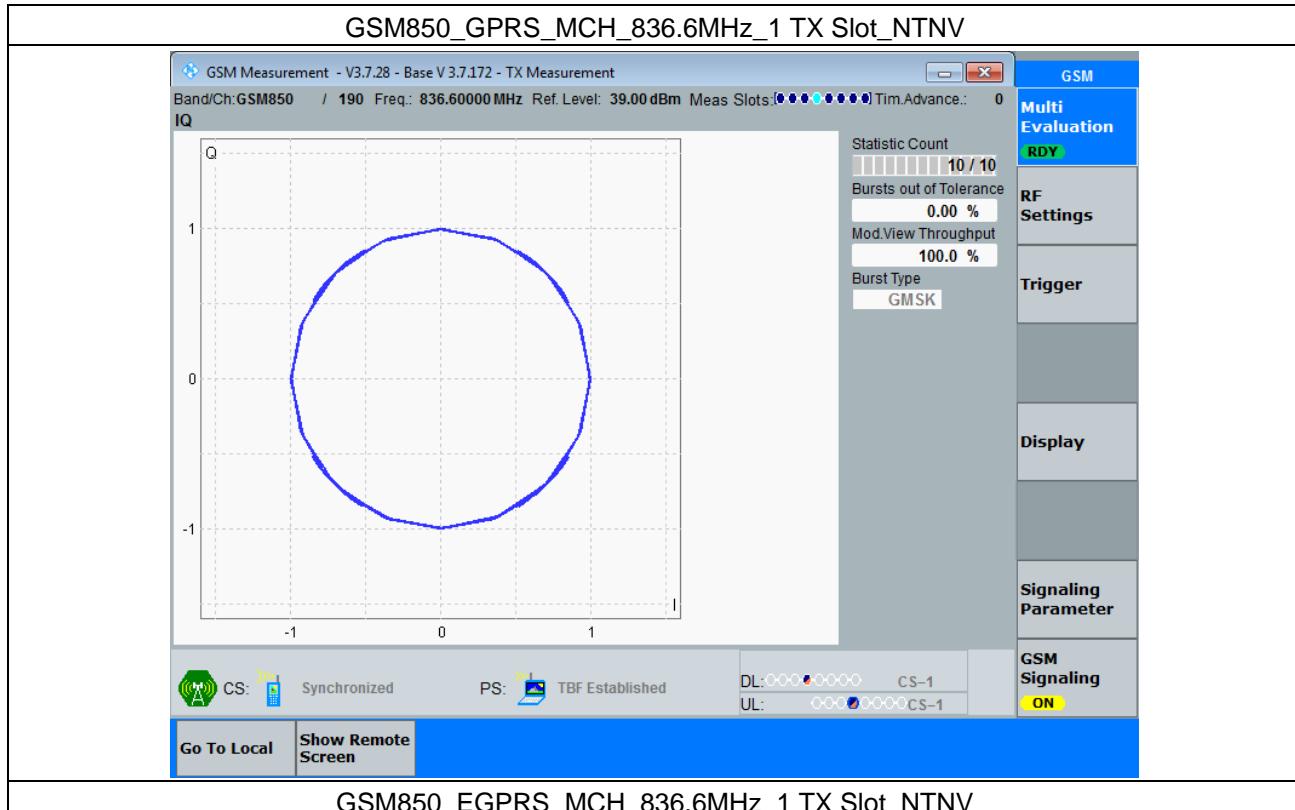


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3.1.2 Test Graph

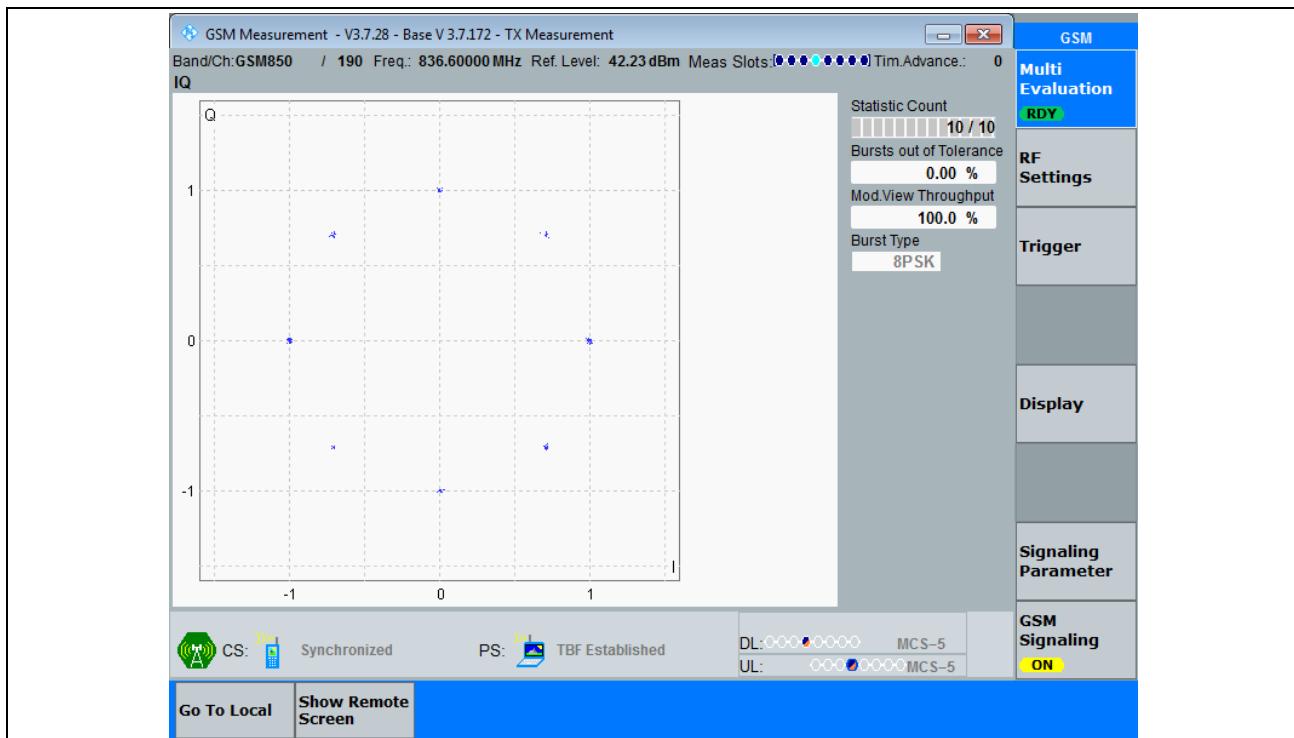


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4. 99% & 26dB Bandwidth

4.1 GSM850_OBW

4.1.1 Test Result

Band: GSM850					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz) Result	Verdict
	Network	Subset			
NTNV	GPRS	1 TX Slot	824.2	0.246	Pass
			836.6	0.249	Pass
			848.8	0.243	Pass
	EGPRS	1 TX Slot	824.2	0.243	Pass
			836.6	0.245	Pass
			848.8	0.247	Pass

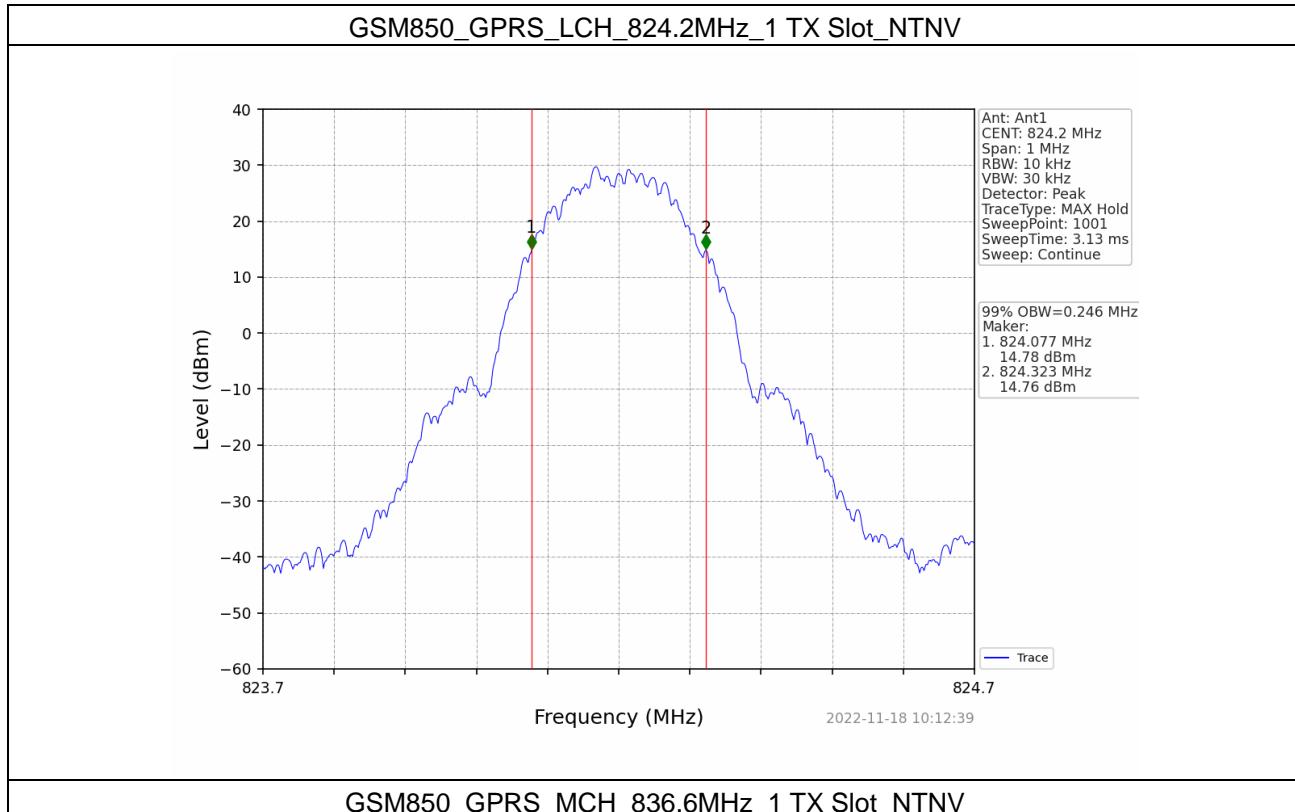
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4.1.2 Test Graph

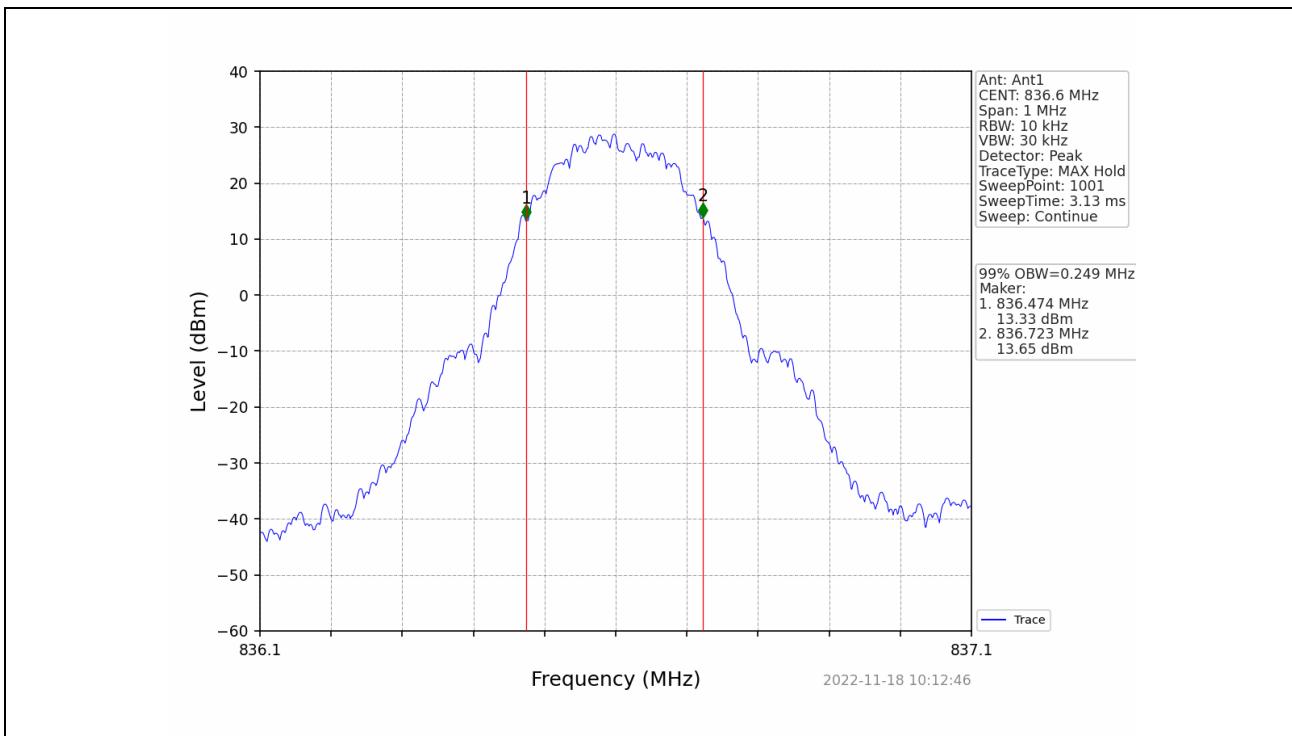


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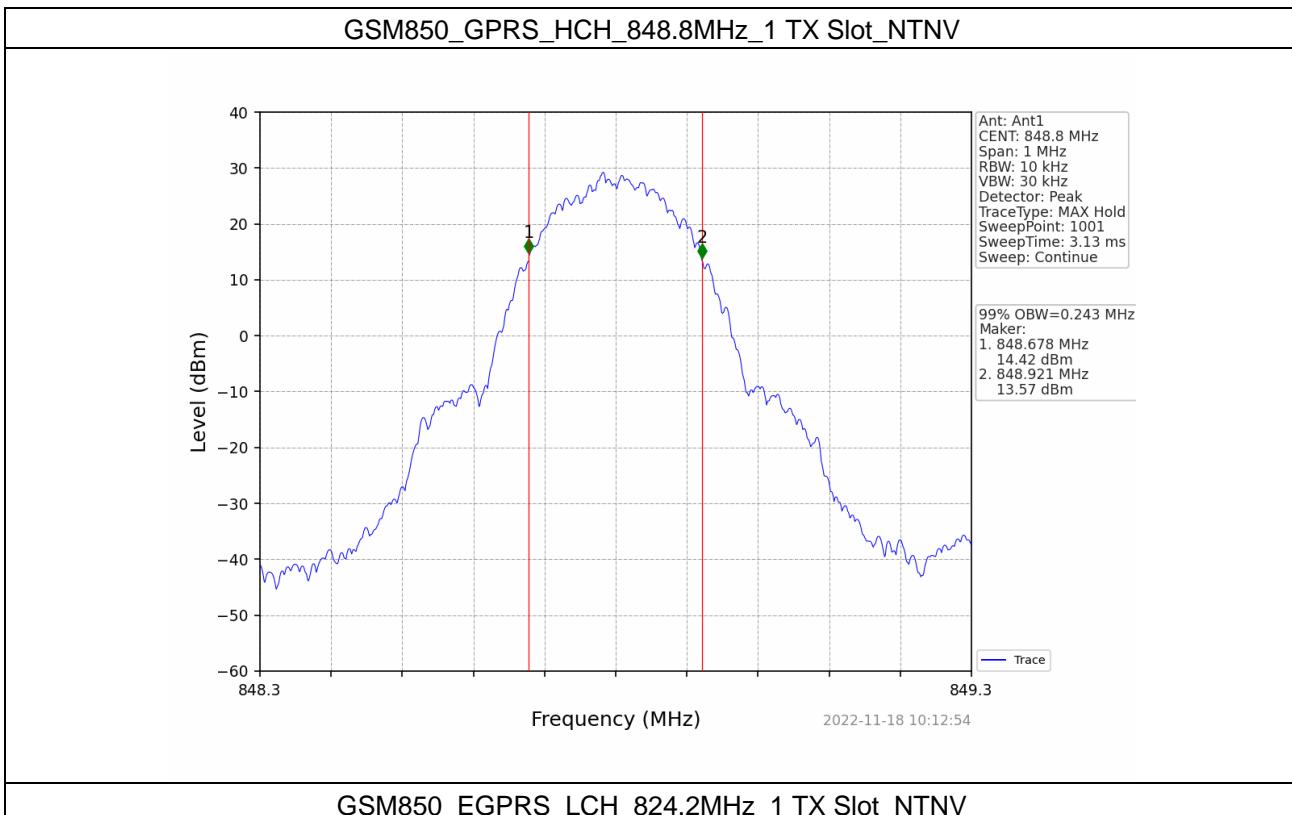
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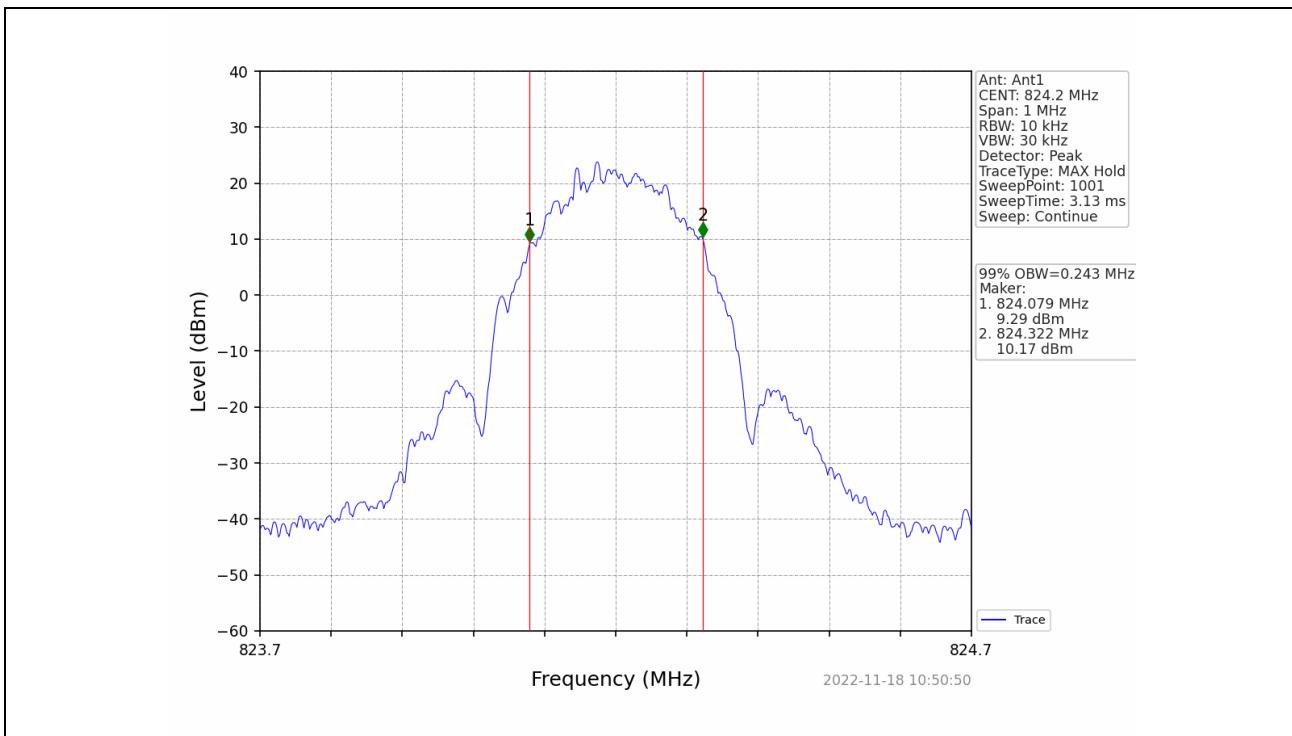
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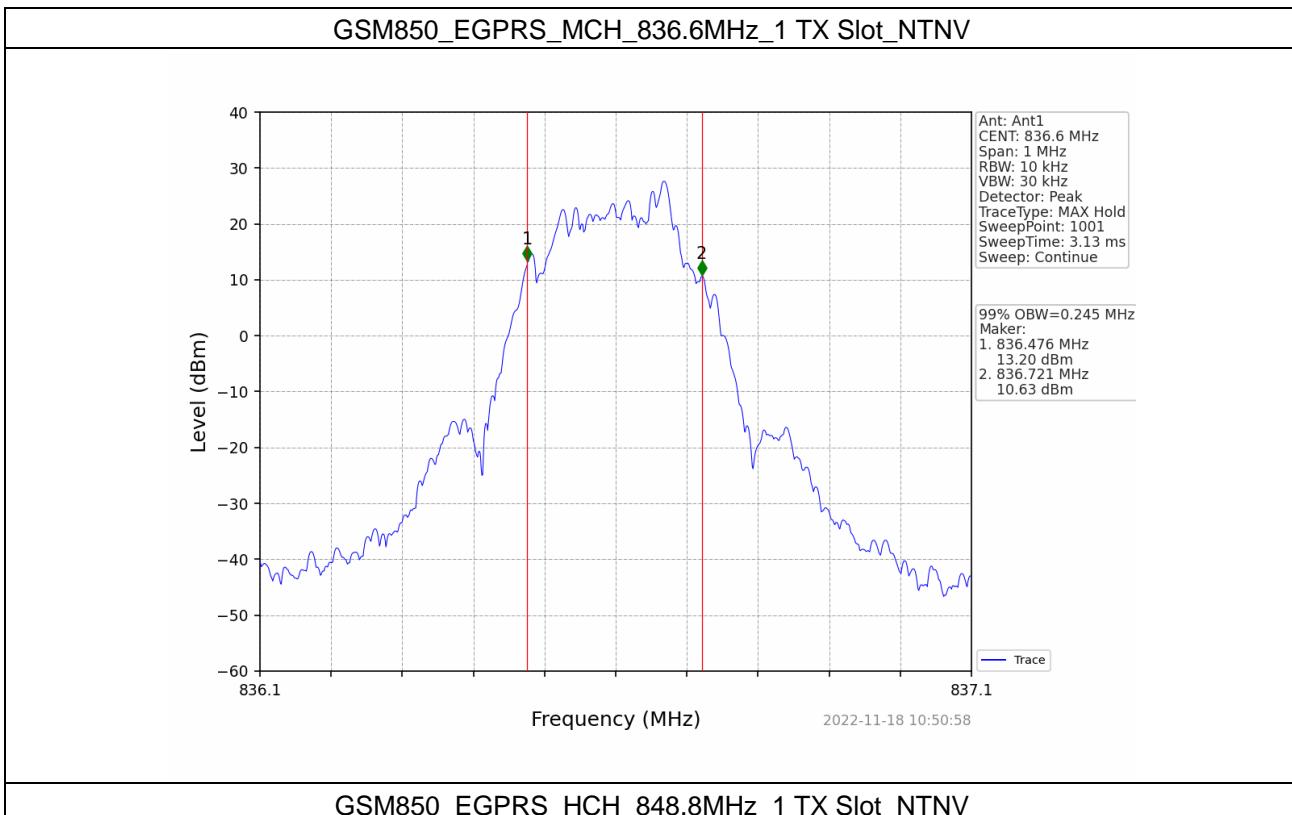
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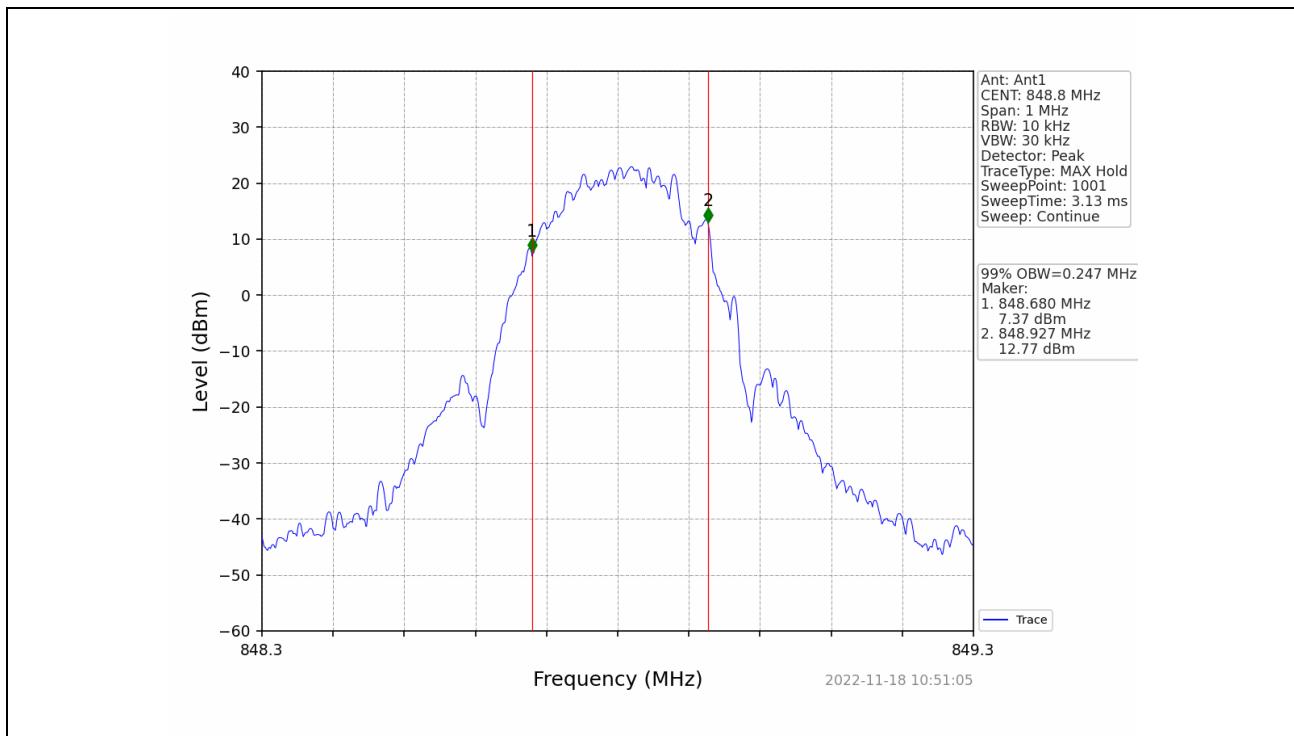


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4.2 GSM850_XDB

4.2.1 Test Result

Band: GSM850					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	824.2	0.319	Pass
			836.6	0.311	Pass
			848.8	0.316	Pass
	EGPRS	1 TX Slot	824.2	0.321	Pass
			836.6	0.295	Pass
			848.8	0.325	Pass



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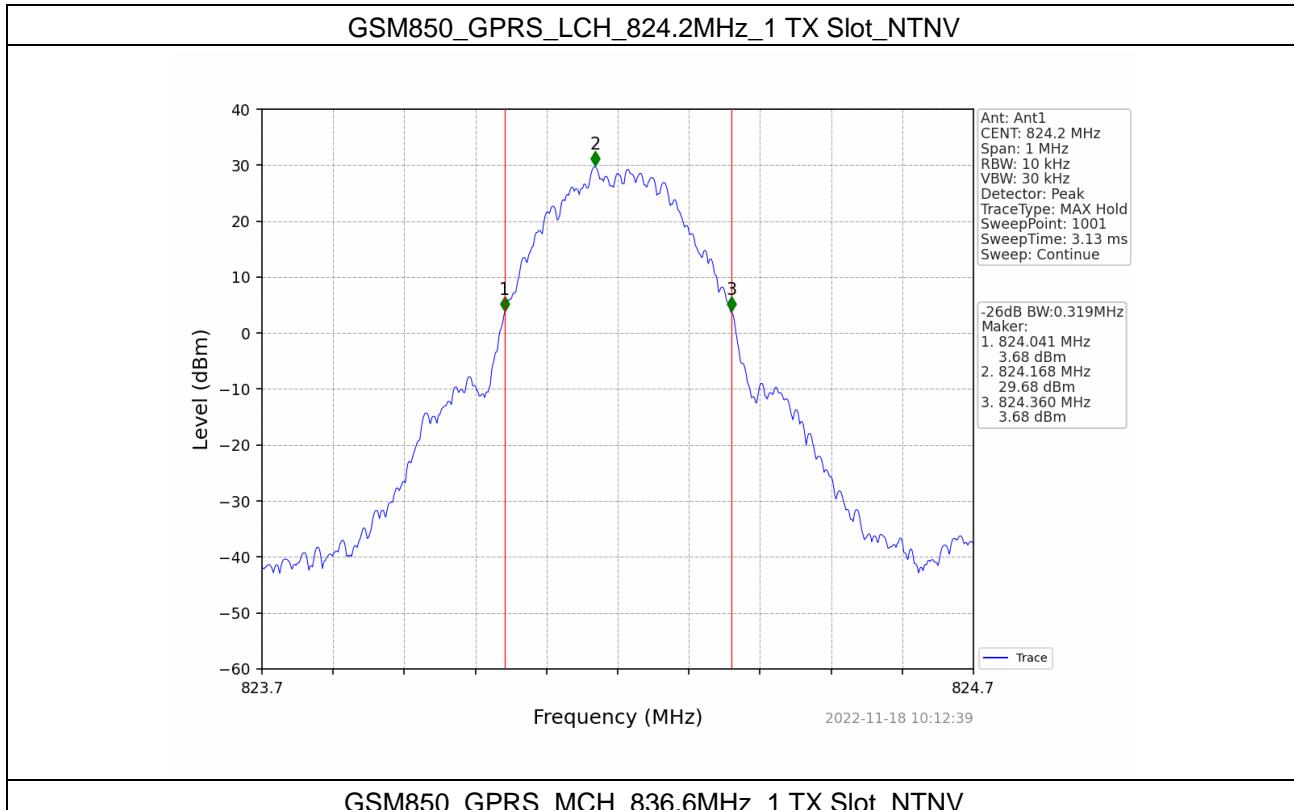
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4.2.2 Test Graph

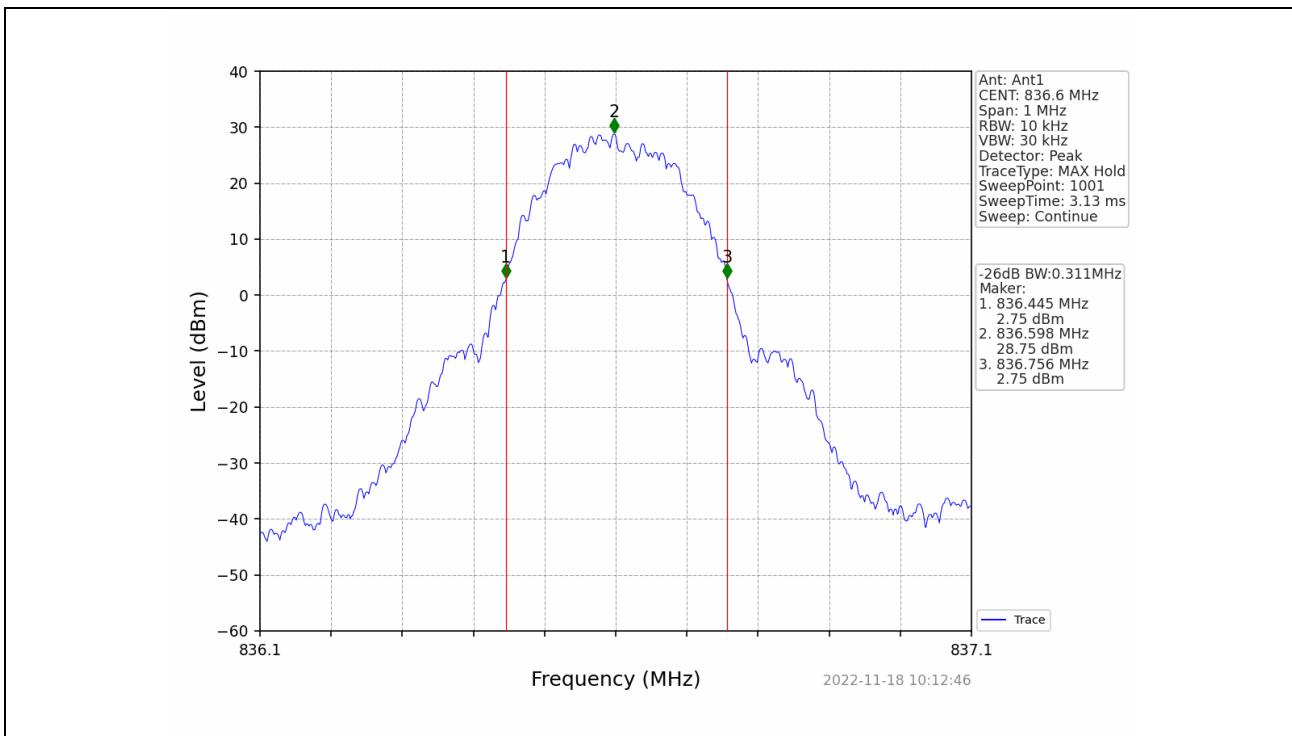


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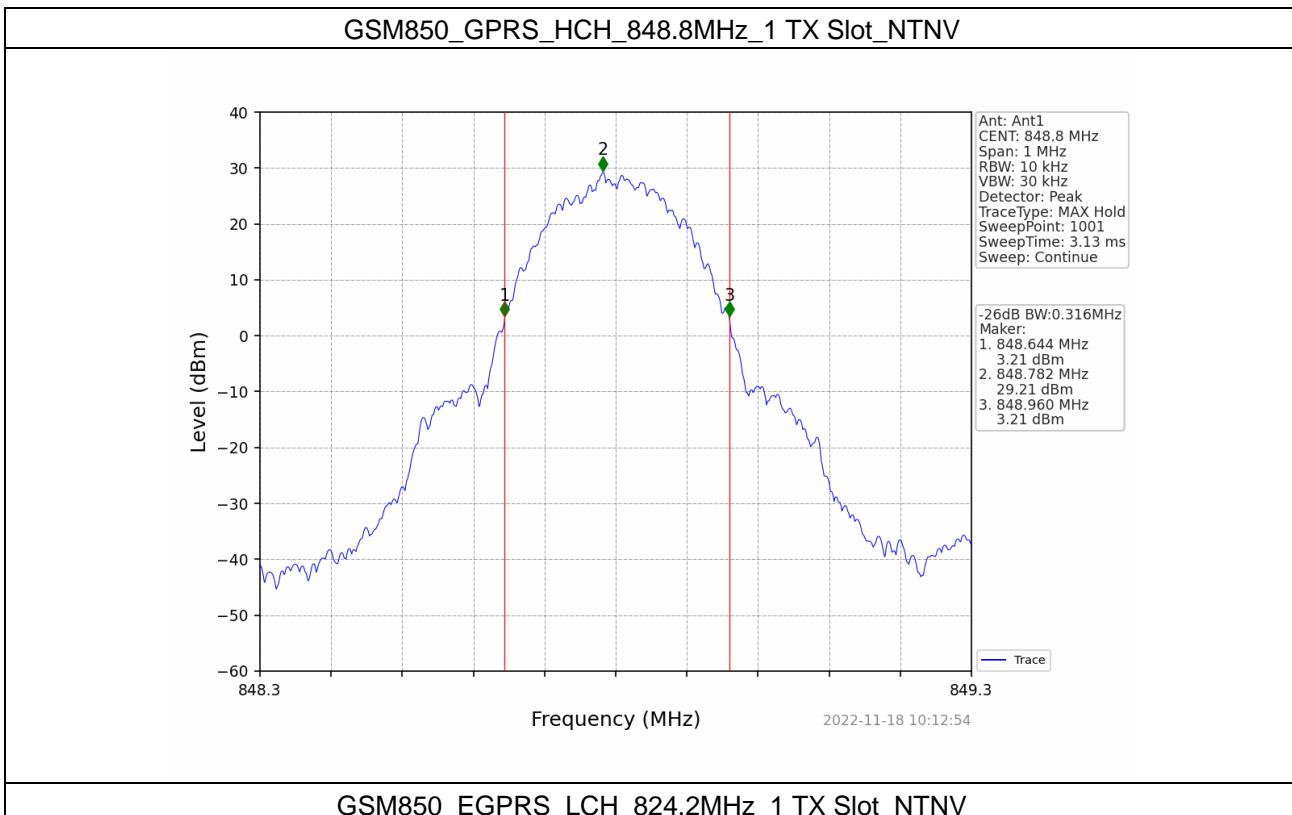
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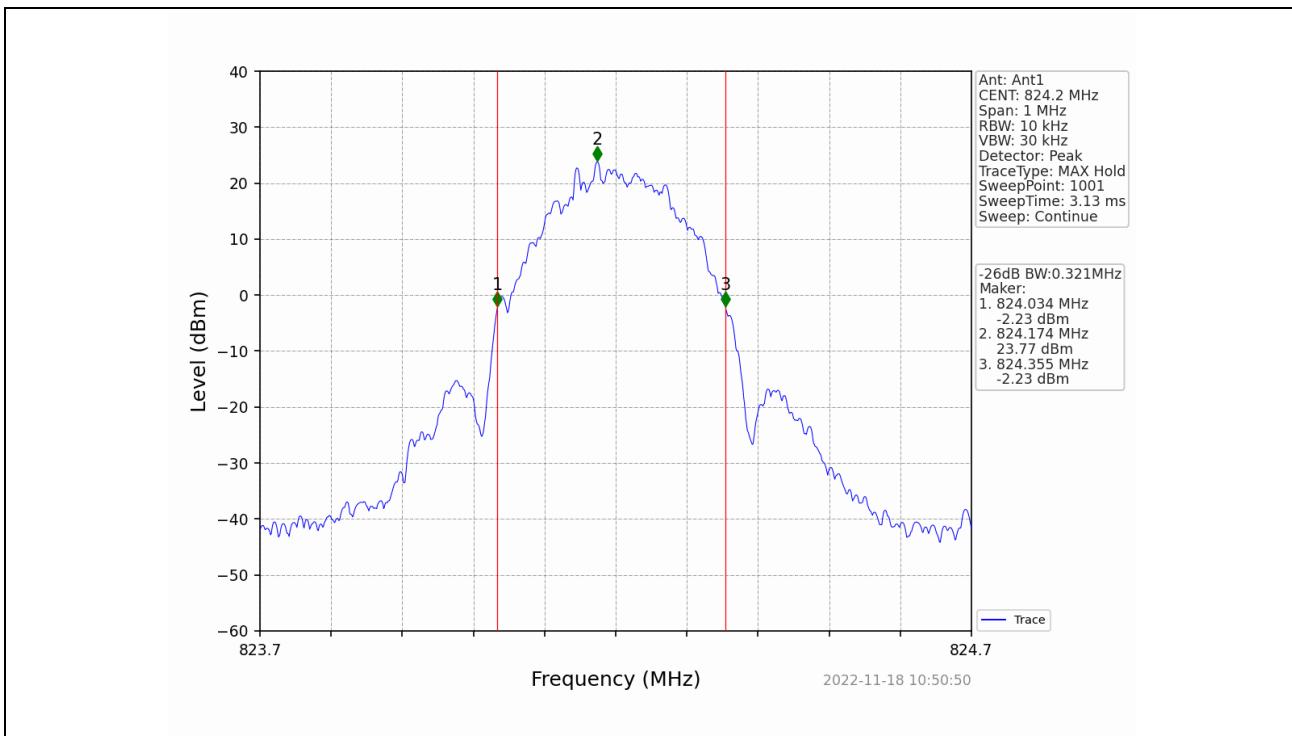
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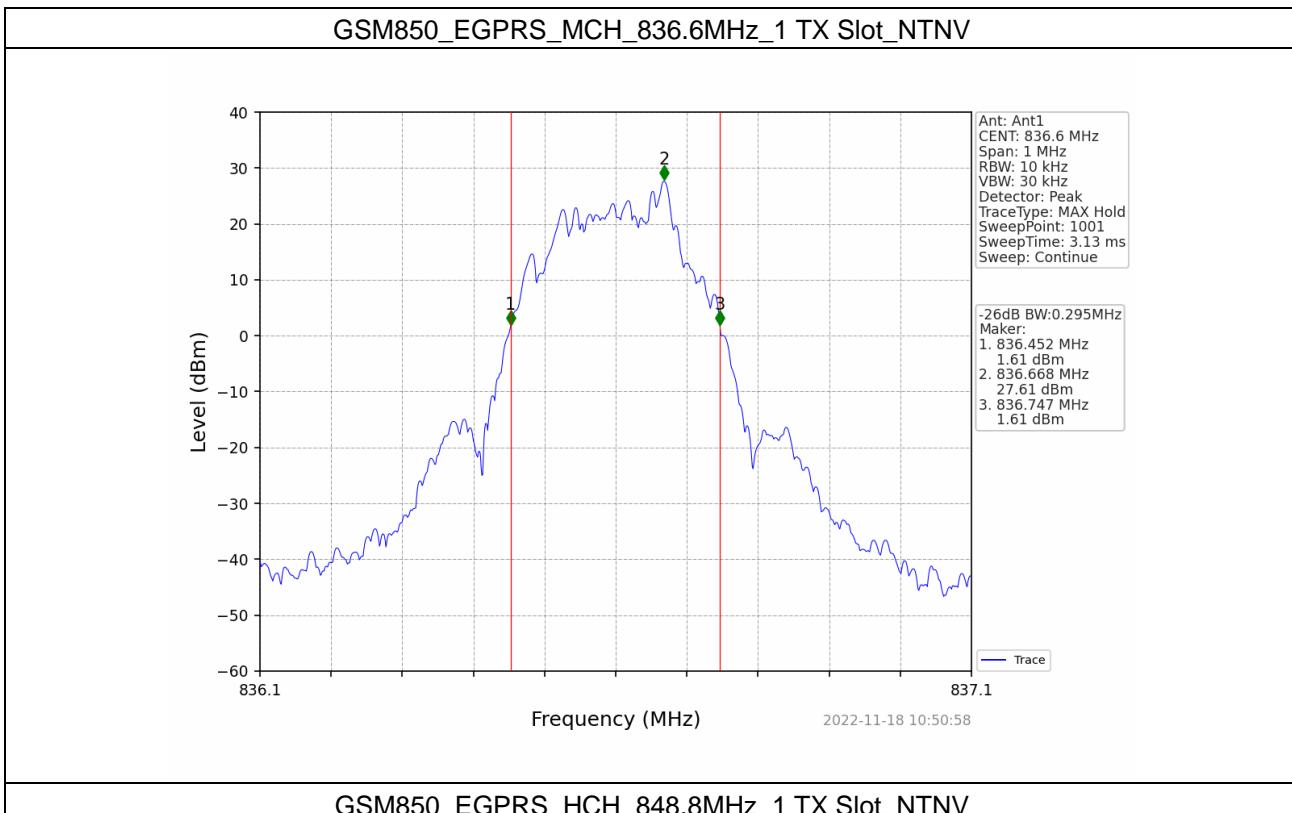
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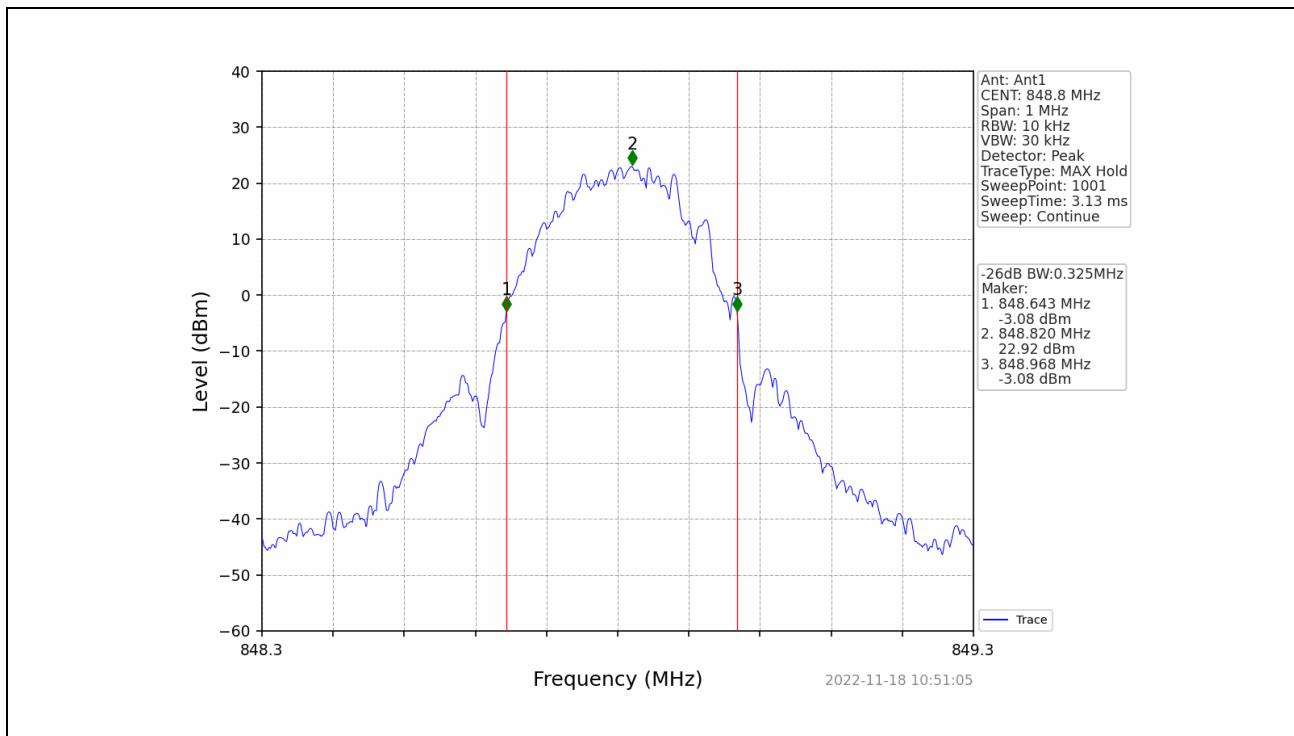


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5. Peak-Average Ratio

5.1 GSM850

5.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	9.78	<=13	Pass
			836.6	3.68	<=13	Pass
			848.8	3.76	<=13	Pass
	EGPRS	4 TX Slots	824.2	6.68	<=13	Pass
			836.6	6.69	<=13	Pass
			848.8	6.70	<=13	Pass



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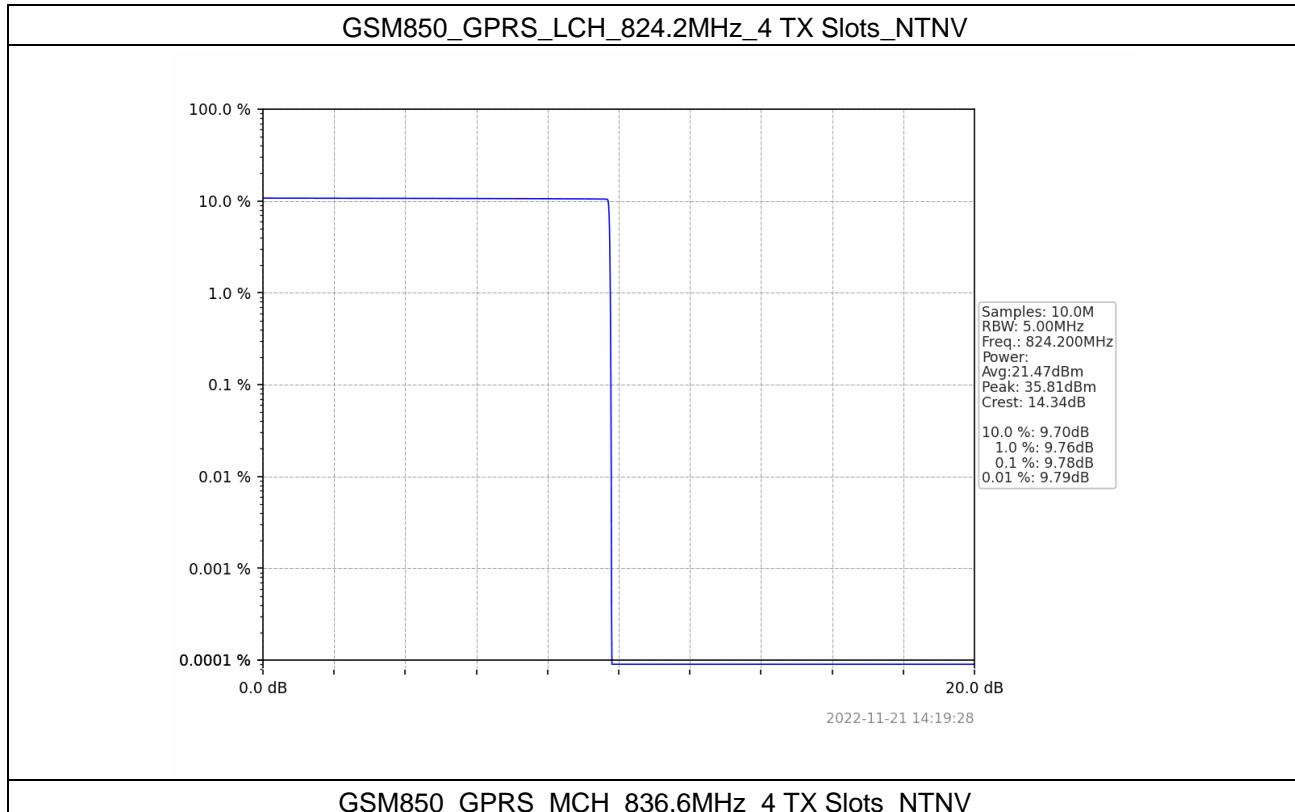
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5.1.2 Test Graph

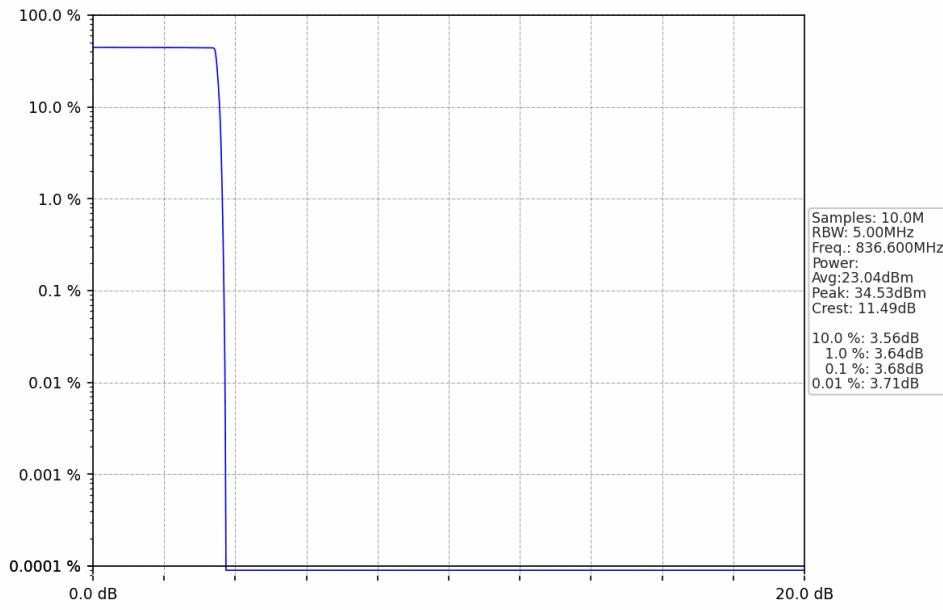


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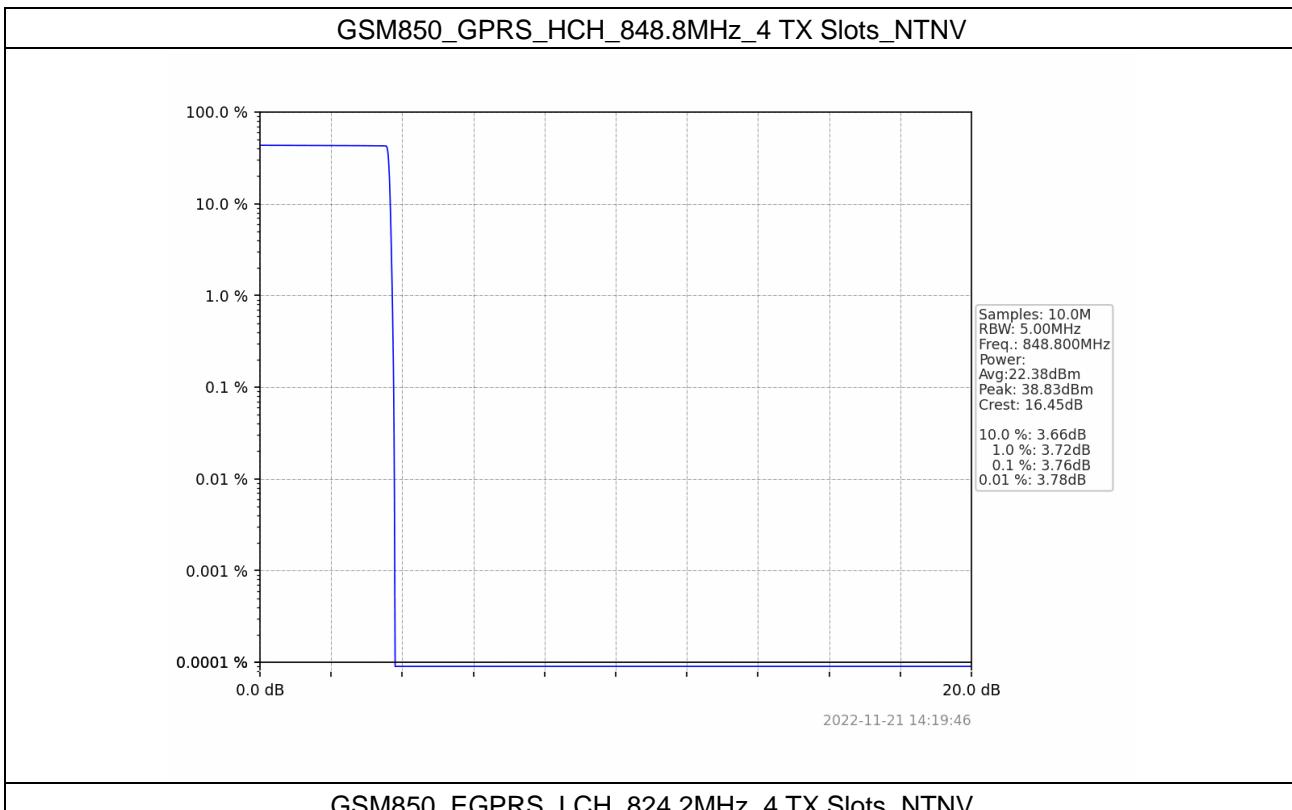


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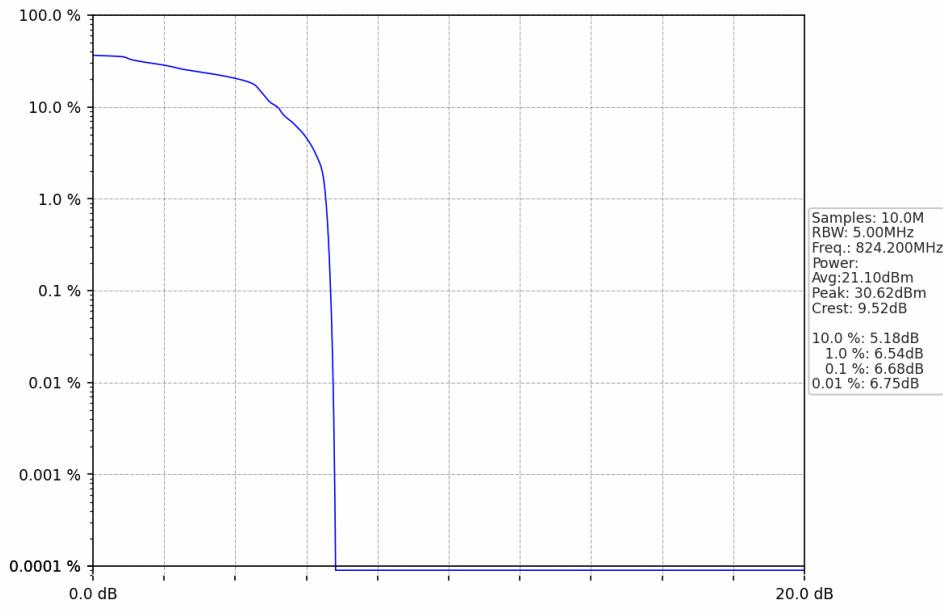
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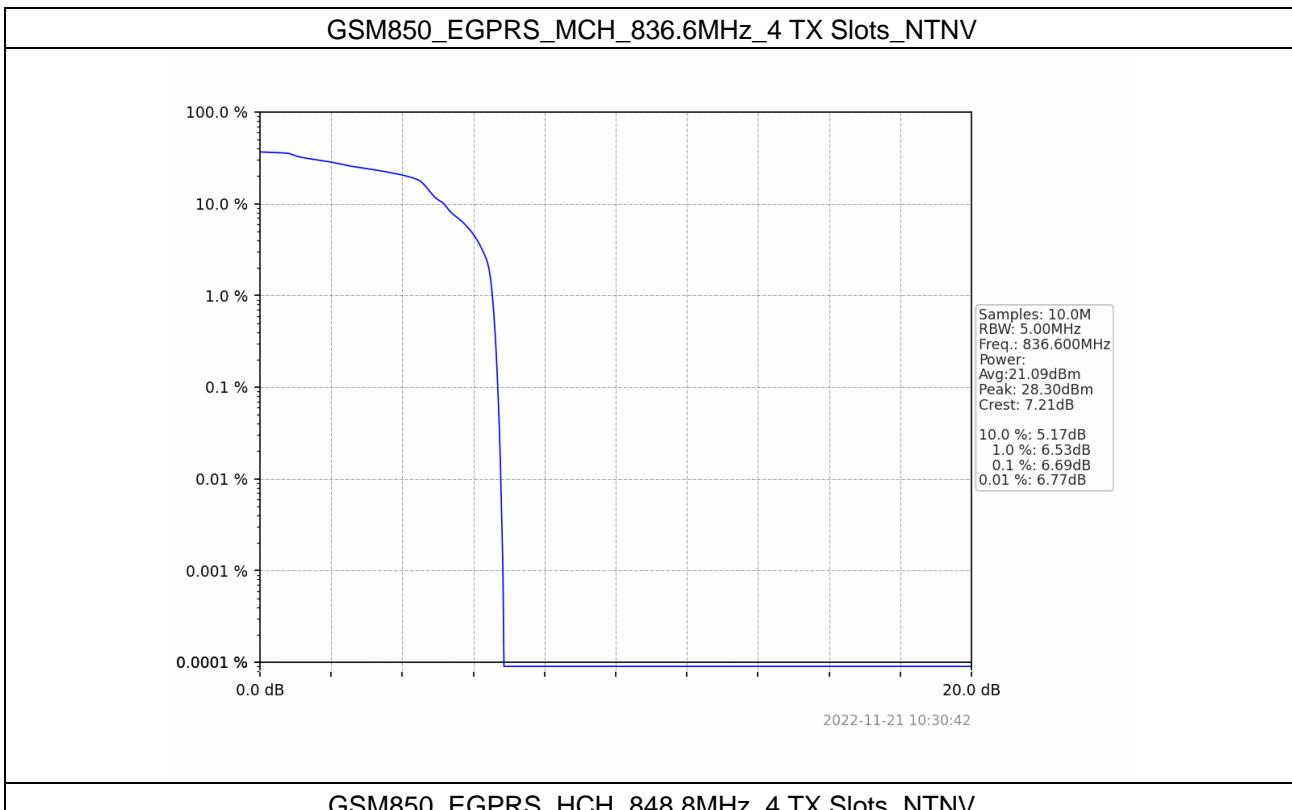


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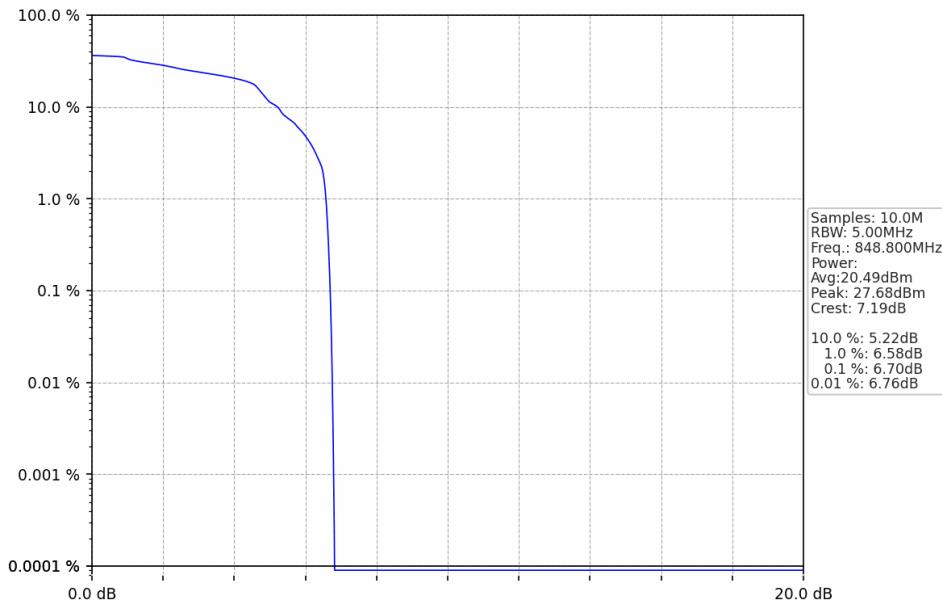
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6. Spurious Emission

6.1 GSM850

6.1.1 Test Result

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



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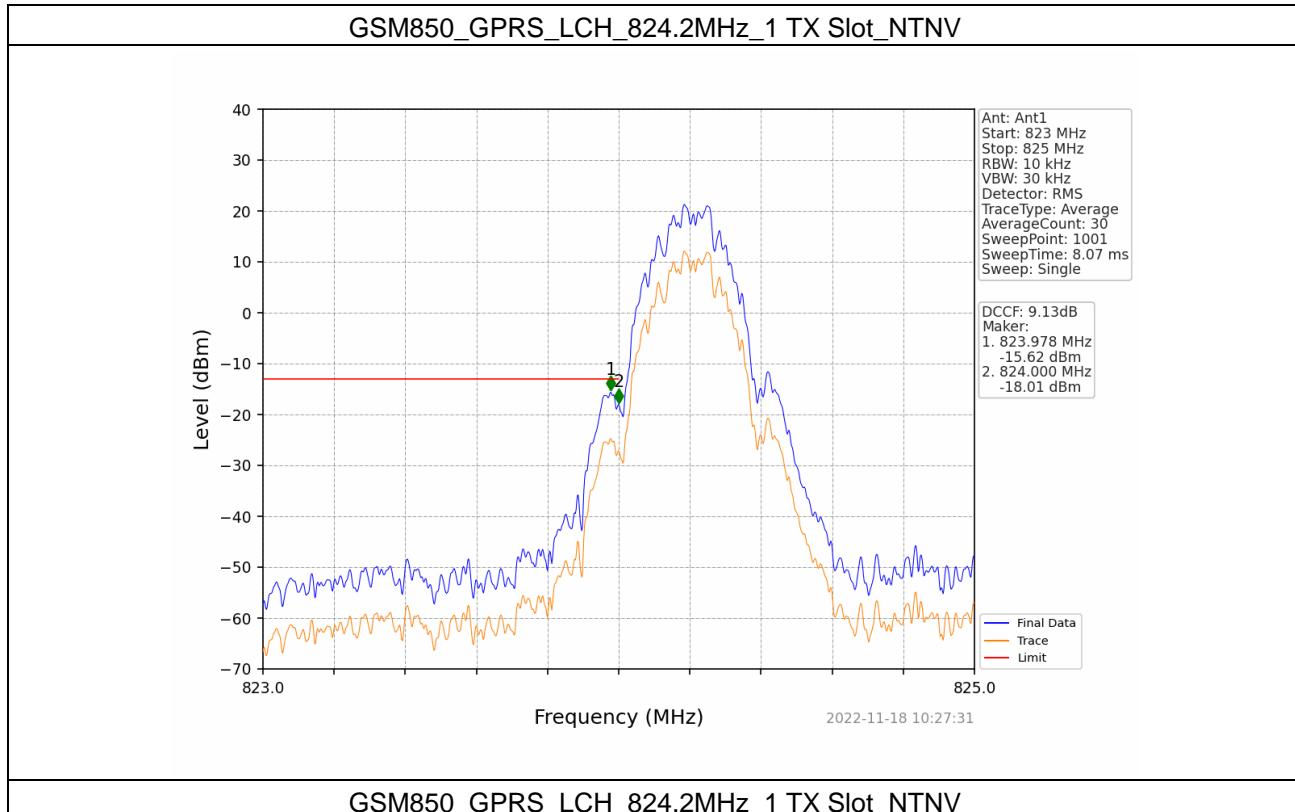
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6.1.2 Test Graph

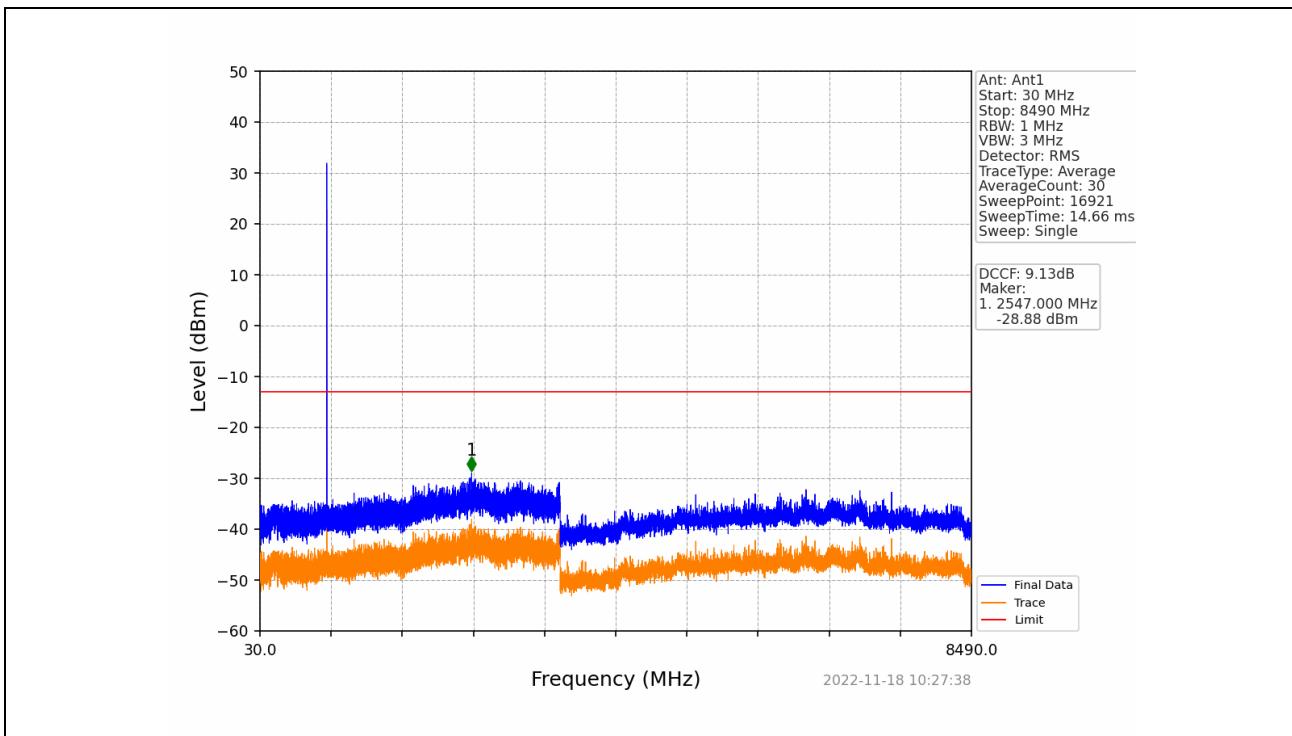


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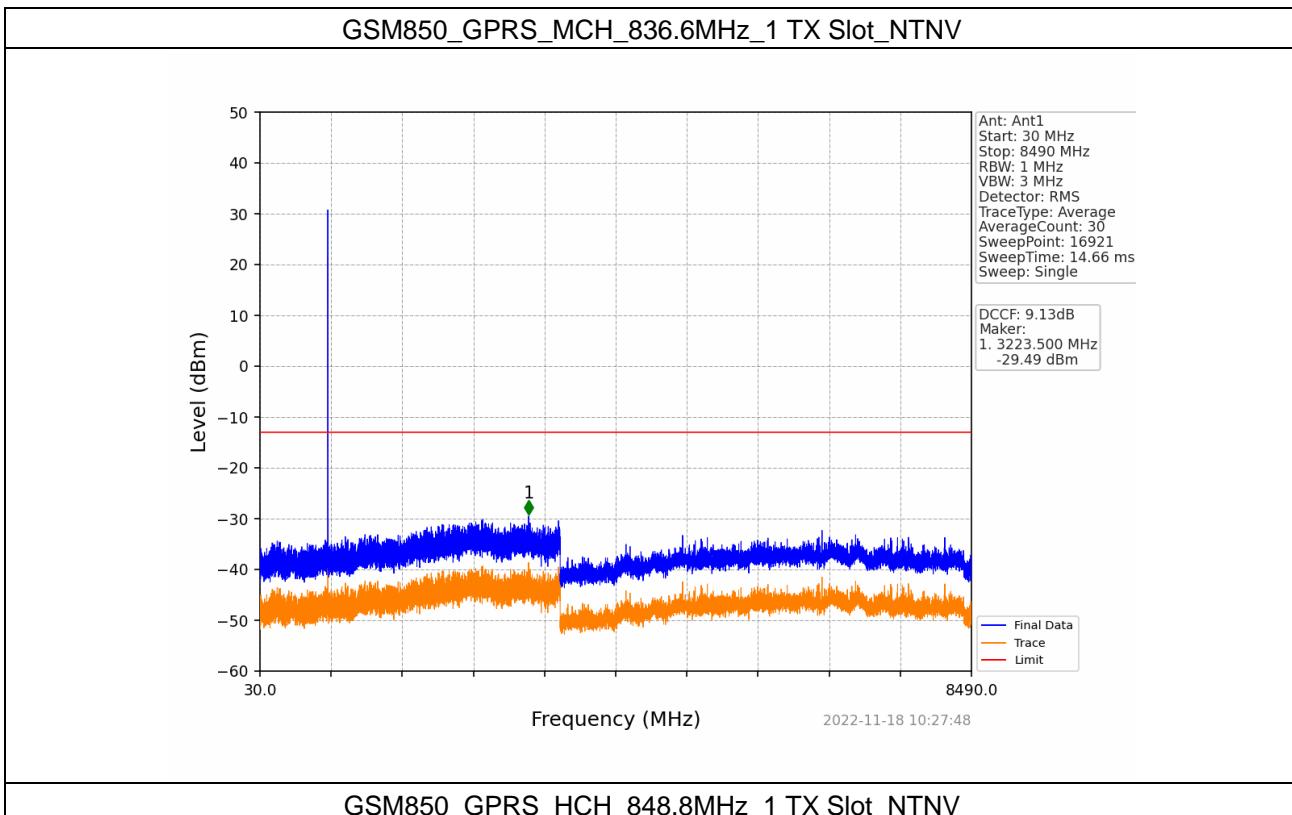


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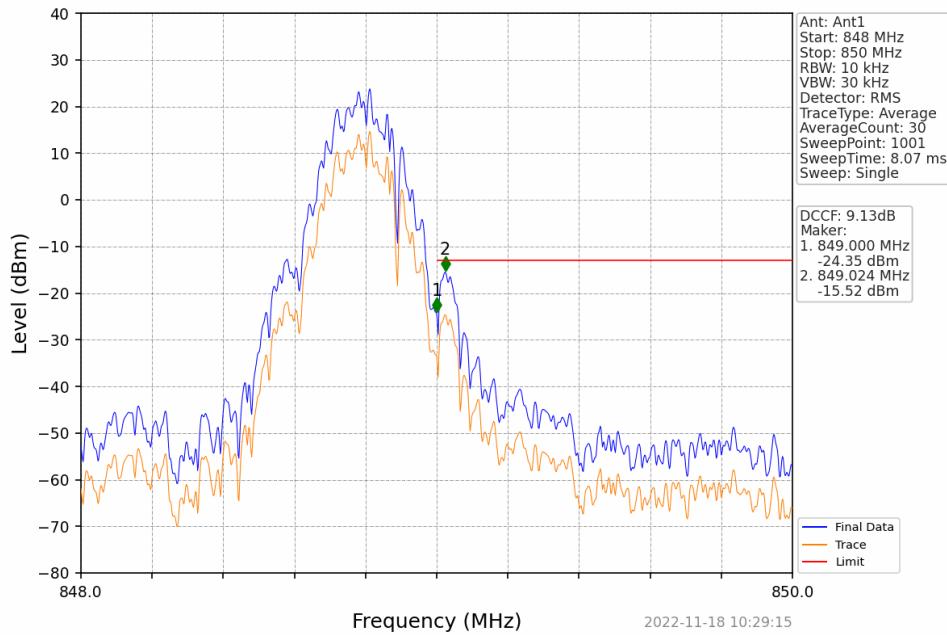
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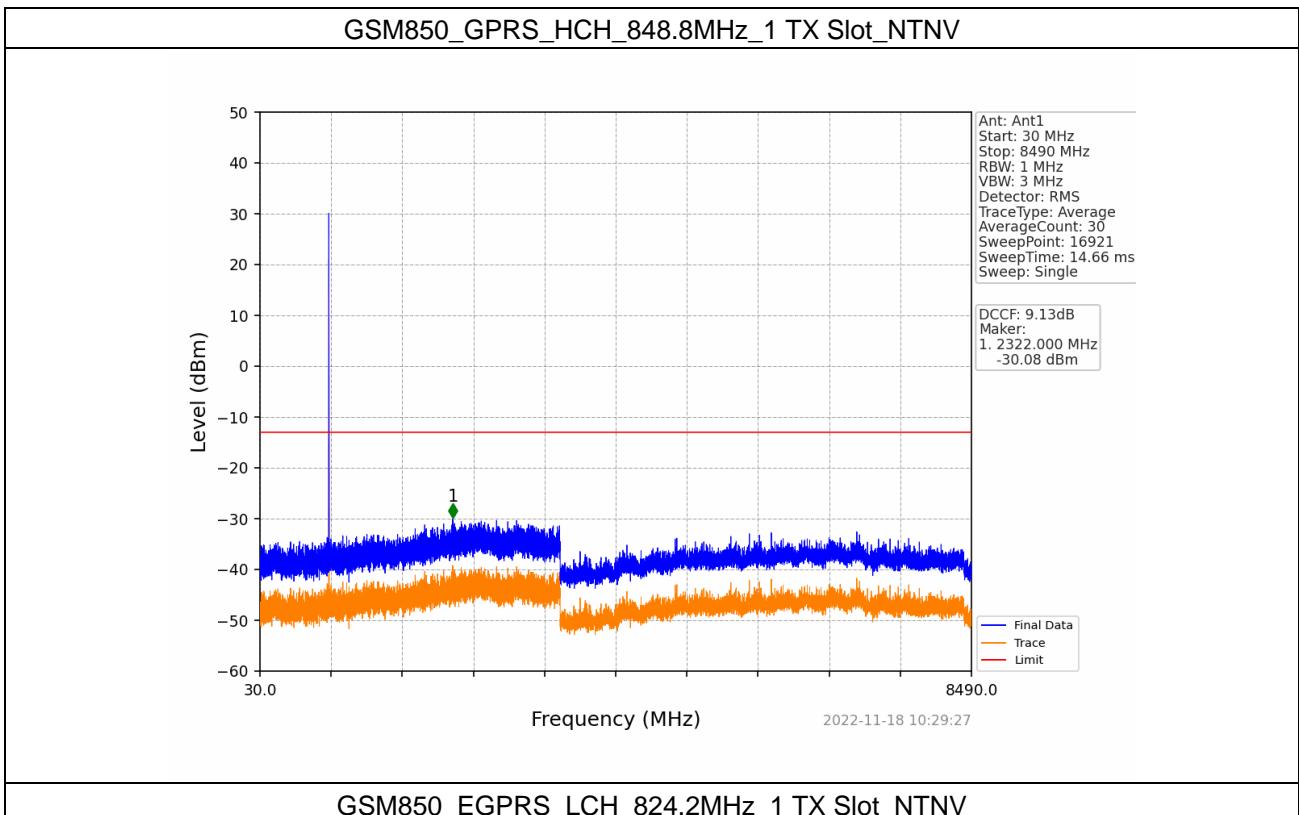


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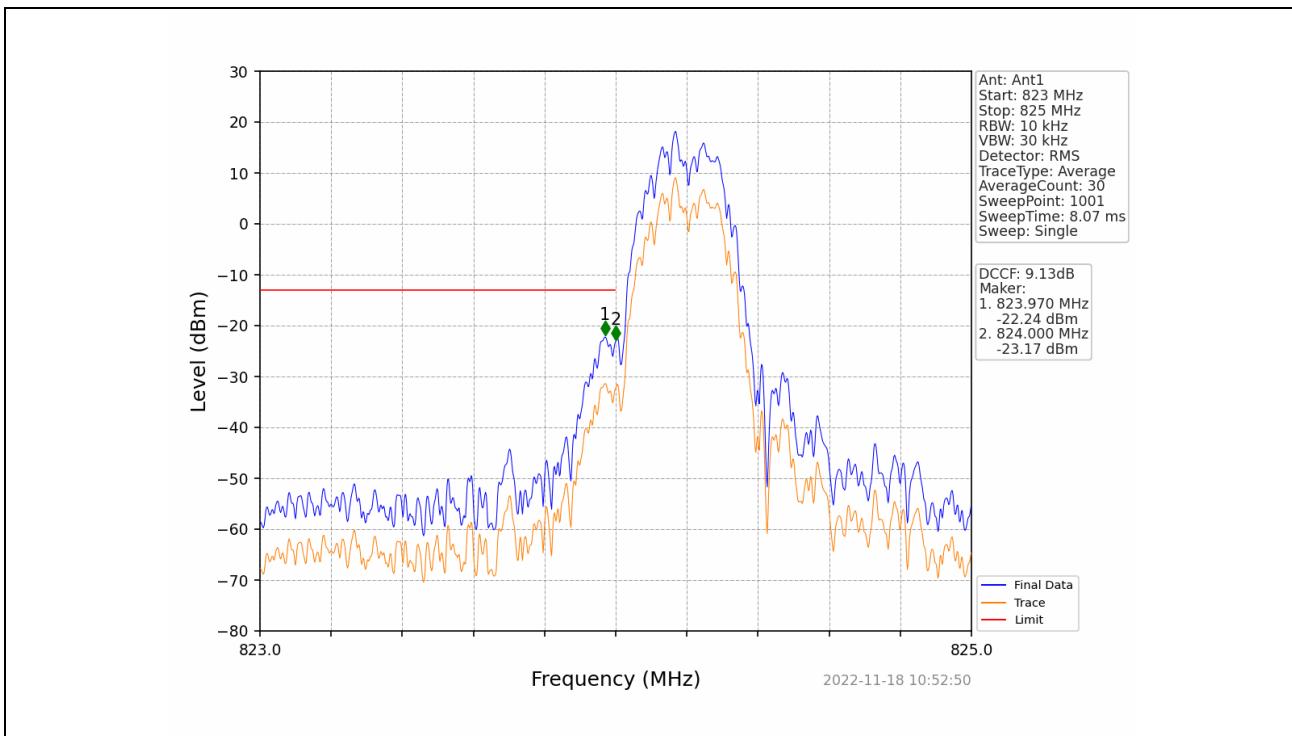
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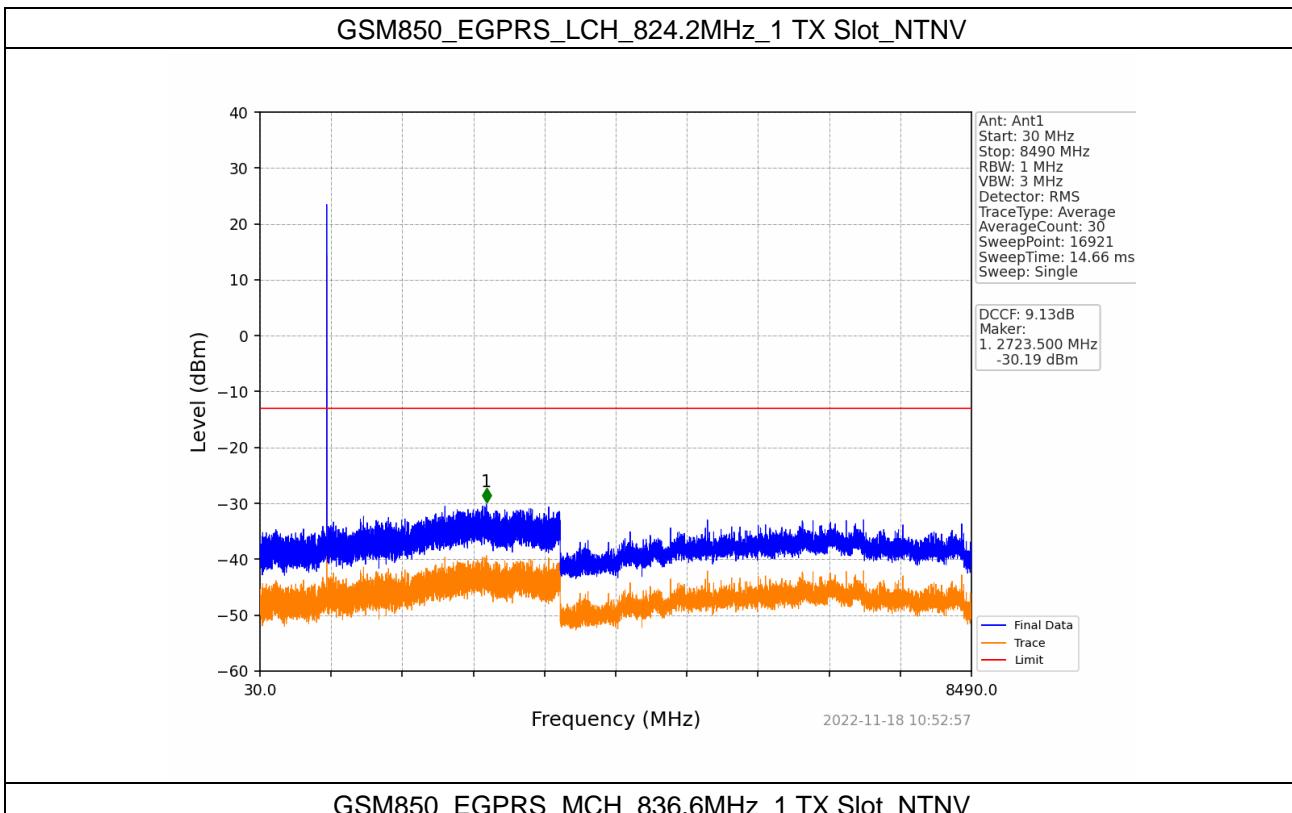


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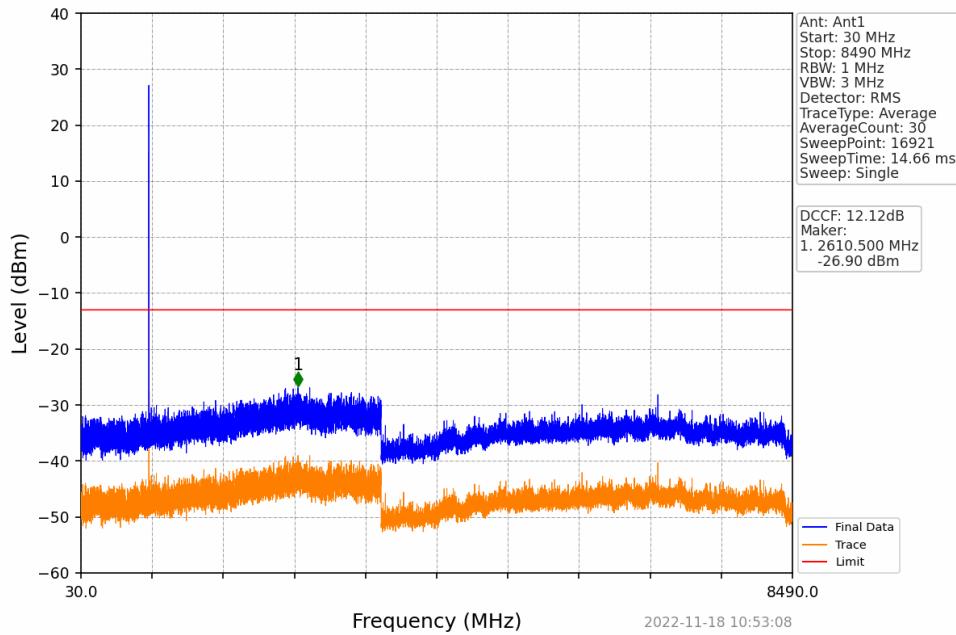


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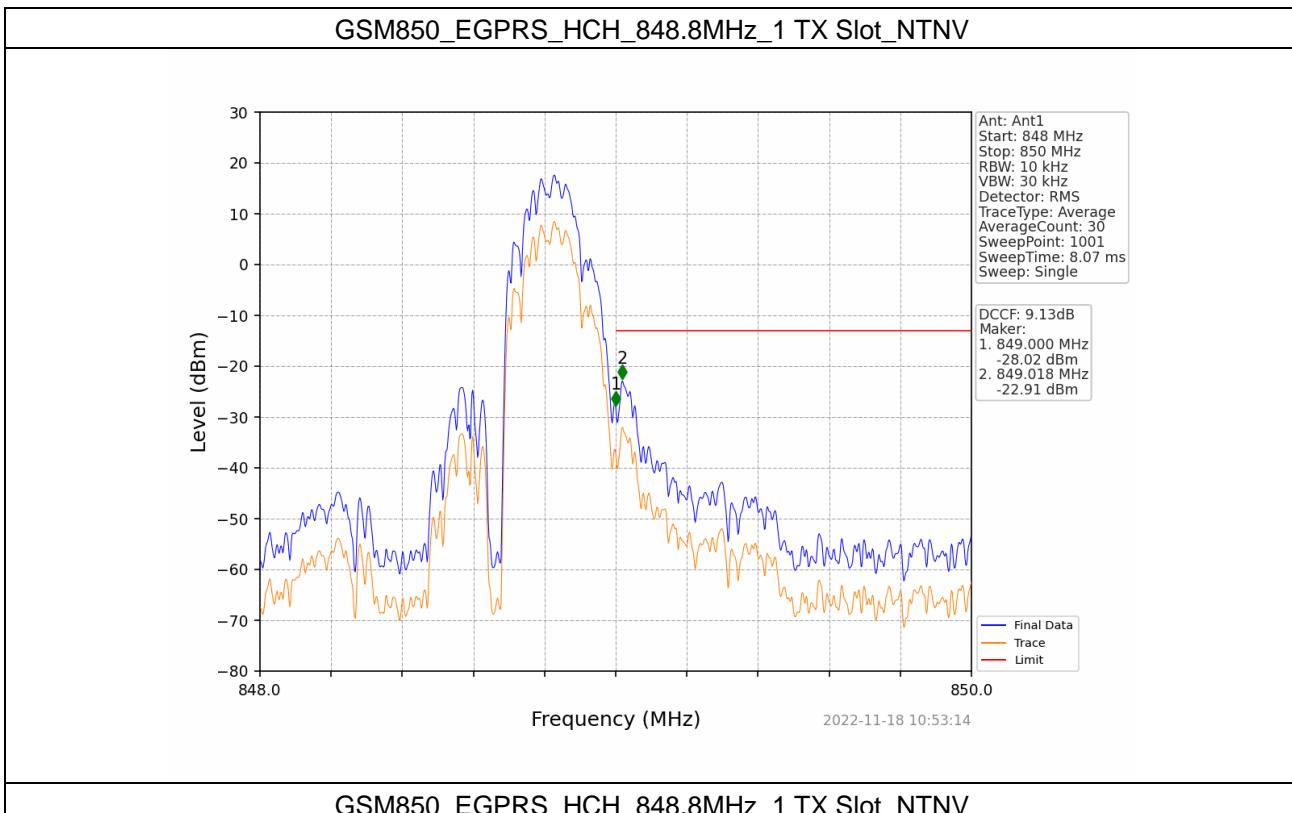


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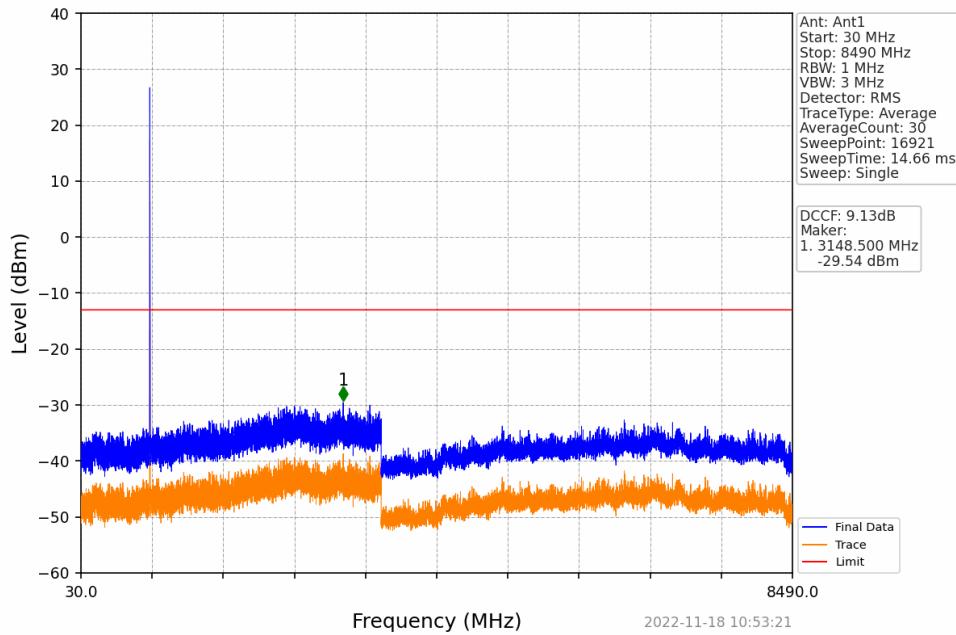
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Appendix for PCS 1900

1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900_EIRP

1.1.1 Test Result

ENV	Band: PCS1900							Verdict	
	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)			
	Network	Subset				Result	Limit		
NTNV	GPRS	1 TX Slot	1850.2	28.48	2.30	30.78	<=33.01	Pass	
		2 TX Slots	1850.2	26.43	2.30	28.73	<=33.01	Pass	
		3 TX Slots	1850.2	24.80	2.30	27.10	<=33.01	Pass	
		4 TX Slots	1850.2	22.81	2.30	25.11	<=33.01	Pass	
		1 TX Slot	1880	28.44	2.30	30.74	<=33.01	Pass	
		2 TX Slots	1880	26.40	2.30	28.70	<=33.01	Pass	
		3 TX Slots	1880	24.35	2.30	26.65	<=33.01	Pass	
		4 TX Slots	1880	22.29	2.30	24.59	<=33.01	Pass	
		1 TX Slot	1909.8	28.52	2.30	30.82	<=33.01	Pass	
		2 TX Slots	1909.8	26.49	2.30	28.79	<=33.01	Pass	
		3 TX Slots	1909.8	24.34	2.30	26.64	<=33.01	Pass	
		4 TX Slots	1909.8	22.32	2.30	24.62	<=33.01	Pass	
	EGPRS	1 TX Slot	1850.2	24.60	2.30	26.90	<=33.01	Pass	
		2 TX Slots	1850.2	22.52	2.30	24.82	<=33.01	Pass	
		3 TX Slots	1850.2	20.61	2.30	22.91	<=33.01	Pass	
		4 TX Slots	1850.2	18.55	2.30	20.85	<=33.01	Pass	
		1 TX Slot	1880	24.32	2.30	26.62	<=33.01	Pass	
		2 TX Slots	1880	22.43	2.30	24.73	<=33.01	Pass	
		3 TX Slots	1880	20.41	2.30	22.71	<=33.01	Pass	
		4 TX Slots	1880	18.30	2.30	20.60	<=33.01	Pass	
		1 TX Slot	1909.8	24.47	2.30	26.77	<=33.01	Pass	
		2 TX Slots	1909.8	22.42	2.30	24.72	<=33.01	Pass	
		3 TX Slots	1909.8	20.15	2.30	22.45	<=33.01	Pass	
		4 TX Slots	1909.8	18.08	2.30	20.38	<=33.01	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 PCS1900



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2.1.1 Test Result

Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Band: PCS1900		Verdict
					Result	Limit	
1850.2	GPRS	20	3.27	12.969	0.0070	-2.5 to 2.5	Pass
			3.85	24.282	0.0131	-2.5 to 2.5	Pass
			4.43	31.726	0.0171	-2.5 to 2.5	Pass
			-30	3.85	27.624	-2.5 to 2.5	Pass
			-20	3.85	29.183	-2.5 to 2.5	Pass
		1880	-10	3.85	34.685	-2.5 to 2.5	Pass
			0	3.85	27.859	-2.5 to 2.5	Pass
			10	3.85	32.319	-2.5 to 2.5	Pass
			30	3.85	16.673	-2.5 to 2.5	Pass
			40	3.85	12.196	-2.5 to 2.5	Pass
	EGPRS	1909.8	50	3.85	8.297	-2.5 to 2.5	Pass
			20	3.27	26.373	-2.5 to 2.5	Pass
			3.85	12.981	0.0069	-2.5 to 2.5	Pass
			4.43	11.394	0.0061	-2.5 to 2.5	Pass
			-30	3.85	1.759	-2.5 to 2.5	Pass
			-20	3.85	35.800	-2.5 to 2.5	Pass
			-10	3.85	33.159	-2.5 to 2.5	Pass
			0	3.85	11.464	-2.5 to 2.5	Pass
			10	3.85	33.844	-2.5 to 2.5	Pass
			30	3.85	9.121	-2.5 to 2.5	Pass
		1850.2	40	3.85	3.380	-2.5 to 2.5	Pass
			50	3.85	10.951	-2.5 to 2.5	Pass
			20	3.27	14.294	-2.5 to 2.5	Pass
			3.85	1.259	0.0007	-2.5 to 2.5	Pass
			4.43	4.544	0.0024	-2.5 to 2.5	Pass
			-30	3.85	11.523	-2.5 to 2.5	Pass
			-20	3.85	12.515	-2.5 to 2.5	Pass
			-10	3.85	25.627	-2.5 to 2.5	Pass
			0	3.85	23.355	-2.5 to 2.5	Pass
			10	3.85	23.046	-2.5 to 2.5	Pass
			30	3.85	20.238	-2.5 to 2.5	Pass
			40	3.85	25.985	-2.5 to 2.5	Pass
			50	3.85	26.045	-2.5 to 2.5	Pass

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	1880		3.85	8.980	0.0049	-2.5 to 2.5	Pass
			4.43	10.262	0.0055	-2.5 to 2.5	Pass
		-30	3.85	9.092	0.0049	-2.5 to 2.5	Pass
		-20	3.85	8.238	0.0045	-2.5 to 2.5	Pass
		-10	3.85	7.465	0.0040	-2.5 to 2.5	Pass
		0	3.85	14.310	0.0077	-2.5 to 2.5	Pass
		10	3.85	20.907	0.0113	-2.5 to 2.5	Pass
		30	3.85	28.822	0.0156	-2.5 to 2.5	Pass
		40	3.85	25.049	0.0135	-2.5 to 2.5	Pass
		50	3.85	27.029	0.0146	-2.5 to 2.5	Pass
			3.27	2.508	0.0013	-2.5 to 2.5	Pass
		20	3.85	25.575	0.0136	-2.5 to 2.5	Pass
			4.43	25.105	0.0134	-2.5 to 2.5	Pass
		-30	3.85	15.699	0.0084	-2.5 to 2.5	Pass
		-20	3.85	9.767	0.0052	-2.5 to 2.5	Pass
	1909.8	-10	3.85	6.949	0.0037	-2.5 to 2.5	Pass
		0	3.85	23.424	0.0125	-2.5 to 2.5	Pass
		10	3.85	12.820	0.0068	-2.5 to 2.5	Pass
		30	3.85	7.499	0.0040	-2.5 to 2.5	Pass
		40	3.85	26.286	0.0140	-2.5 to 2.5	Pass
		50	3.85	30.345	0.0161	-2.5 to 2.5	Pass
			3.27	35.646	0.0187	-2.5 to 2.5	Pass
		20	3.85	42.072	0.0220	-2.5 to 2.5	Pass
			4.43	43.229	0.0226	-2.5 to 2.5	Pass
		-30	3.85	28.416	0.0149	-2.5 to 2.5	Pass
		-20	3.85	19.528	0.0102	-2.5 to 2.5	Pass
		-10	3.85	12.848	0.0067	-2.5 to 2.5	Pass
		0	3.85	13.777	0.0072	-2.5 to 2.5	Pass
		10	3.85	11.534	0.0060	-2.5 to 2.5	Pass
		30	3.85	1.849	0.0010	-2.5 to 2.5	Pass
		40	3.85	6.673	0.0035	-2.5 to 2.5	Pass
		50	3.85	7.275	0.0038	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 PCS1900

3.1.1 Test Result

Band: PCS1900



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ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1880	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1880	Refer To Test Graph		Pass

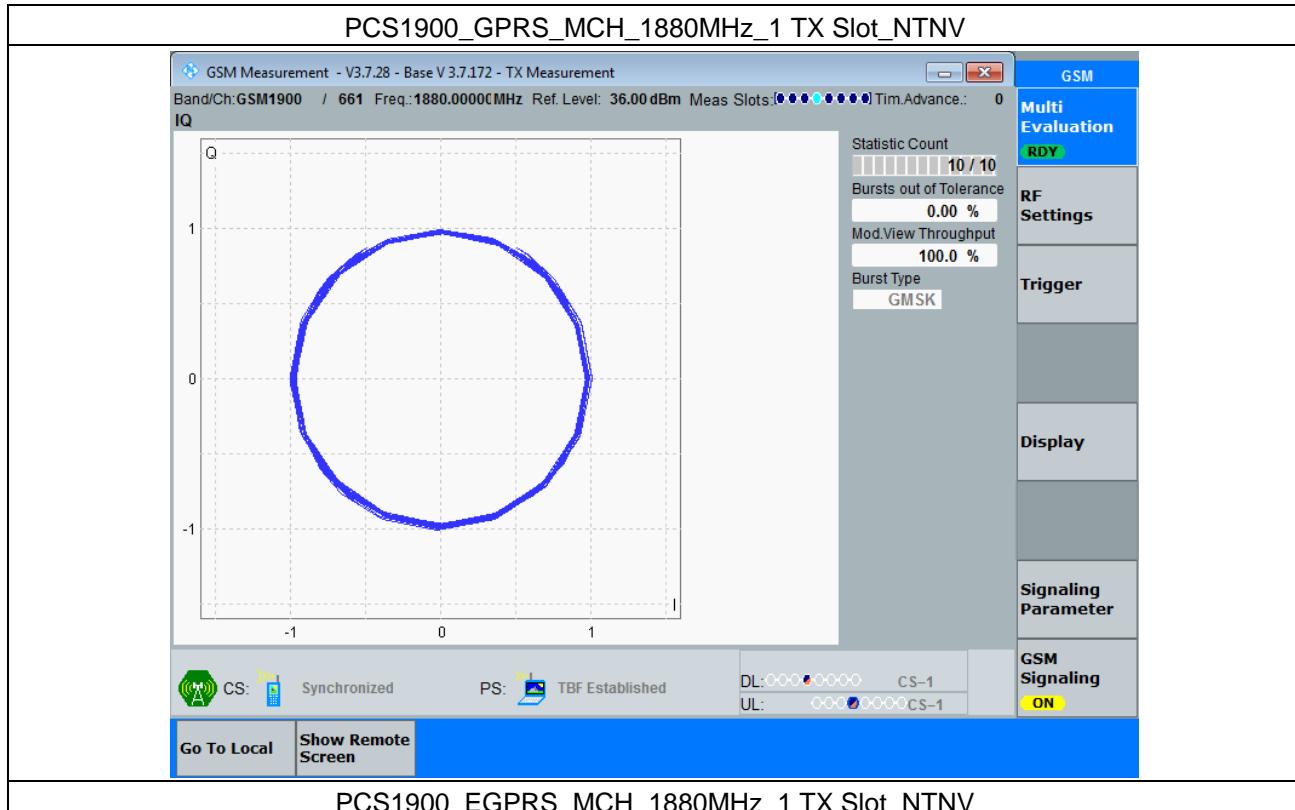
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3.1.2 Test Graph

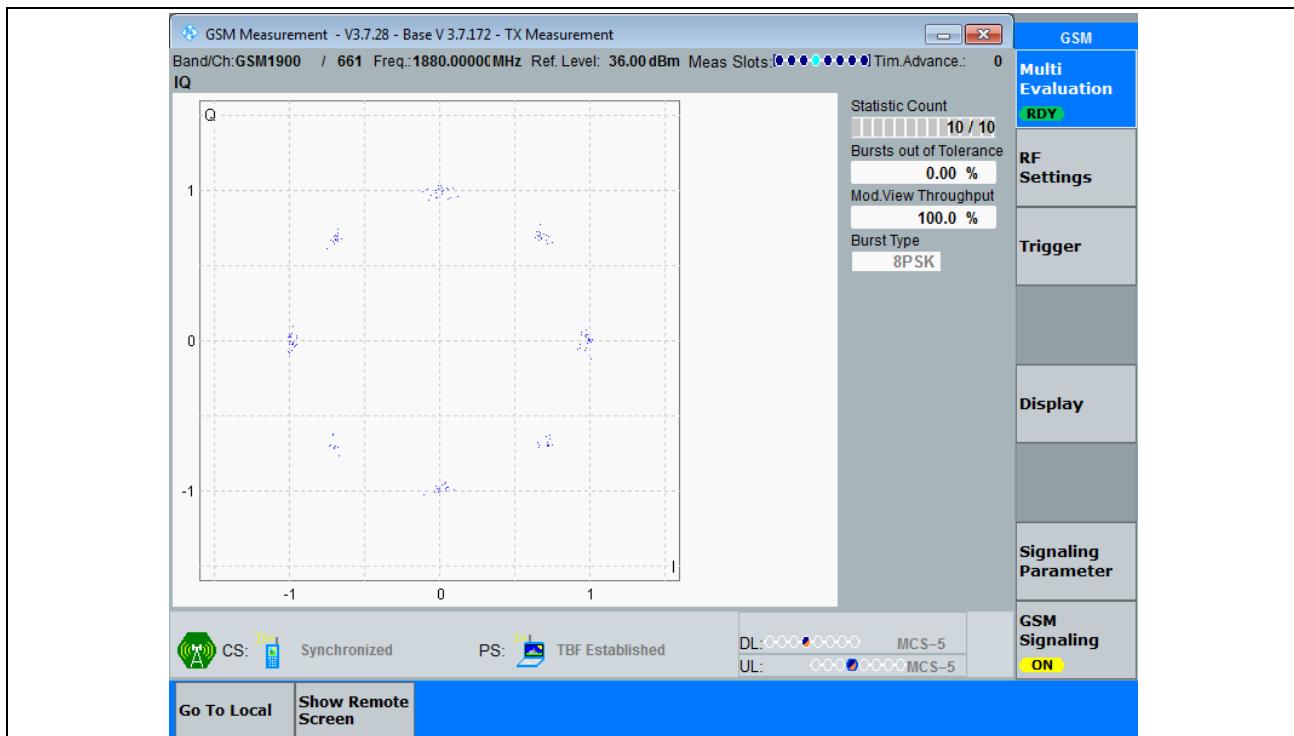


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4. 99% & 26dB Bandwidth

4.1 PCS1900_OBW

4.1.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz) Result	Verdict
	Network	Subset			
NTNV	GPRS	1 TX Slot	1850.2	0.244	Pass
			1880	0.249	Pass
			1909.8	0.239	Pass
	EGPRS	1 TX Slot	1850.2	0.250	Pass
			1880	0.248	Pass
			1909.8	0.248	Pass

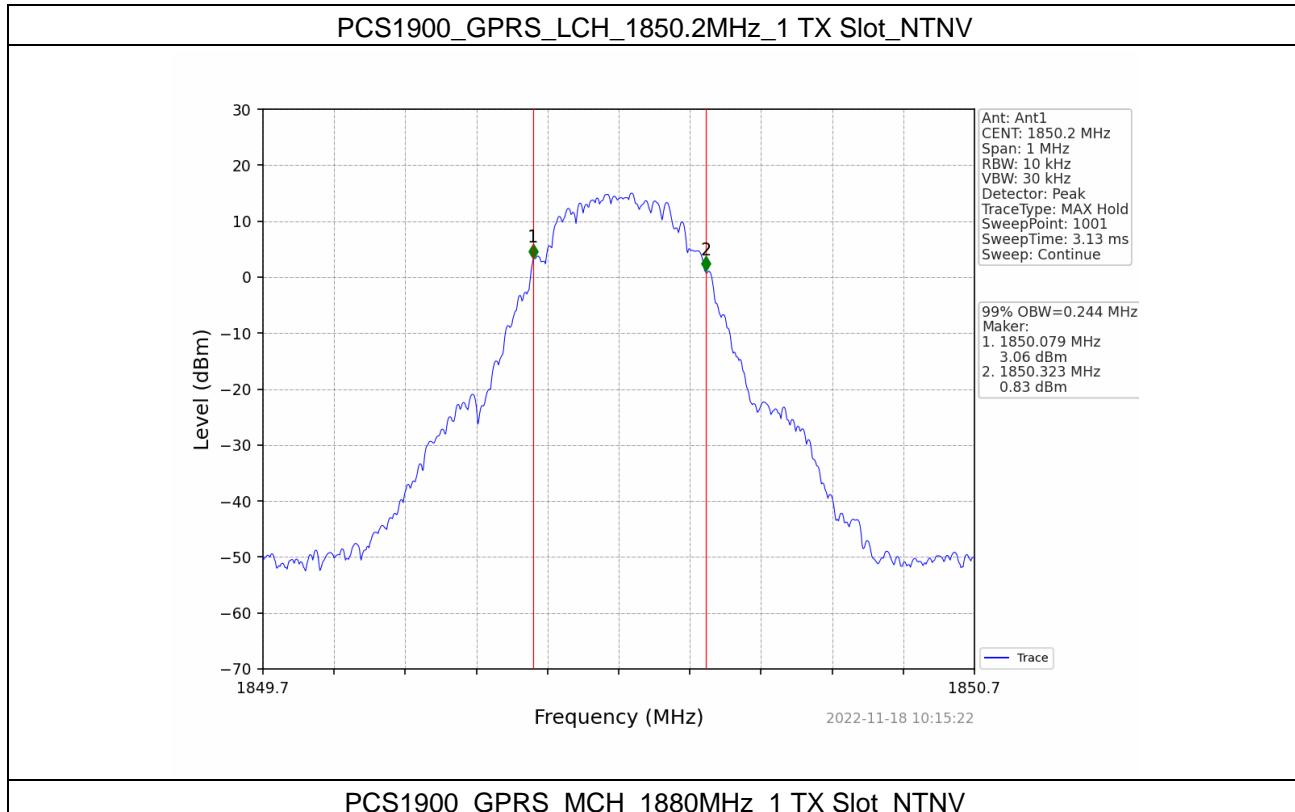
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4.1.2 Test Graph



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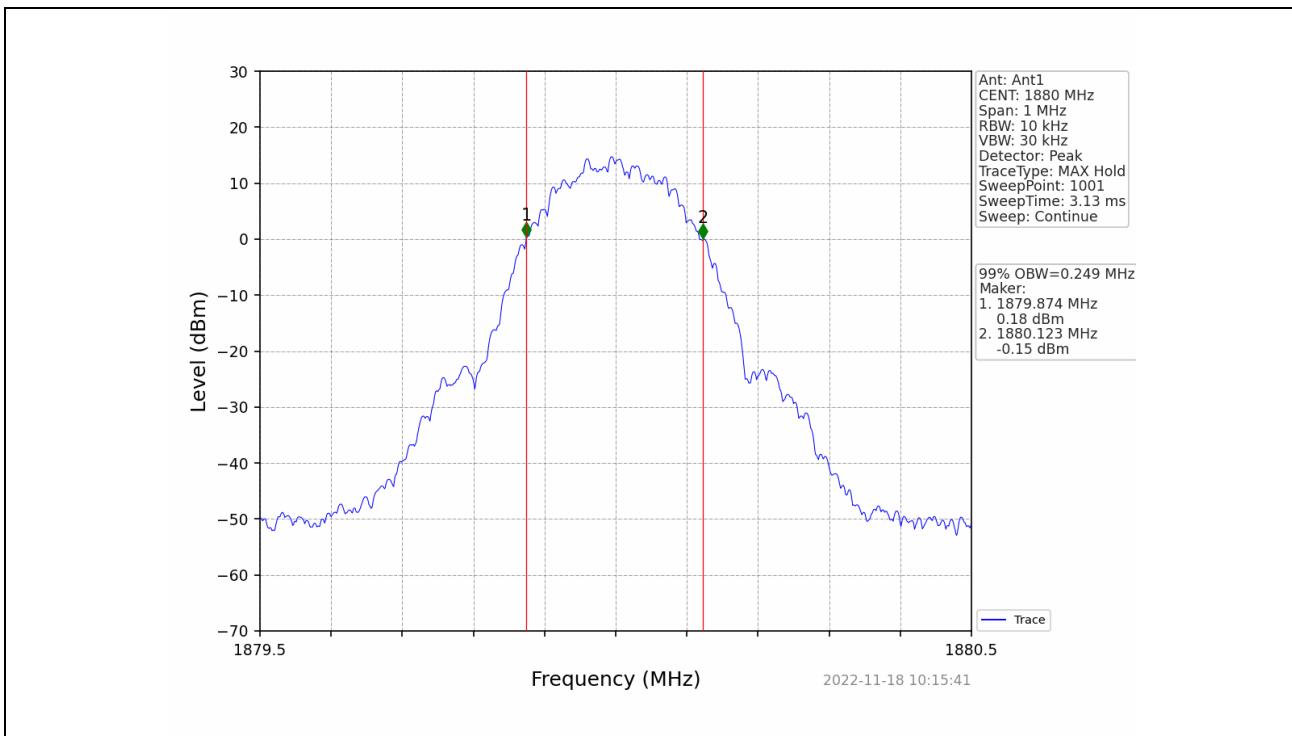
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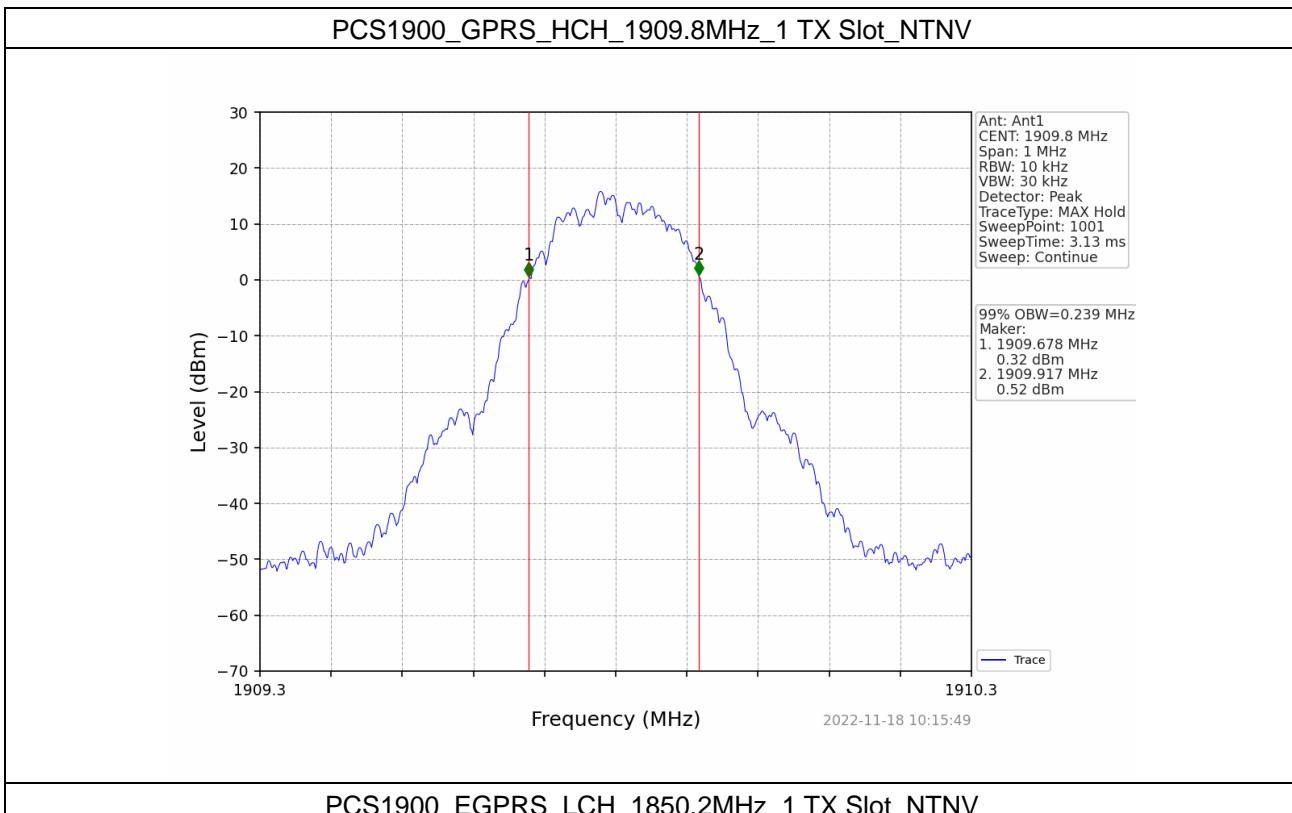


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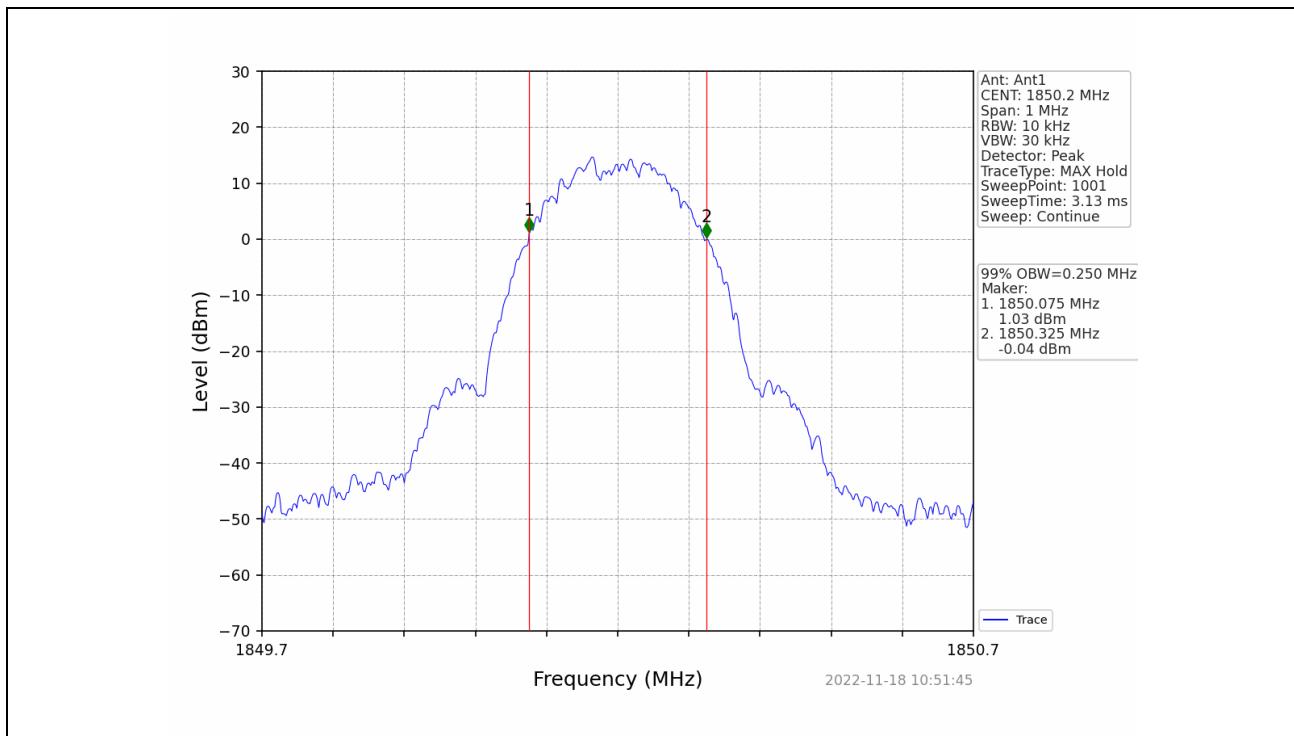


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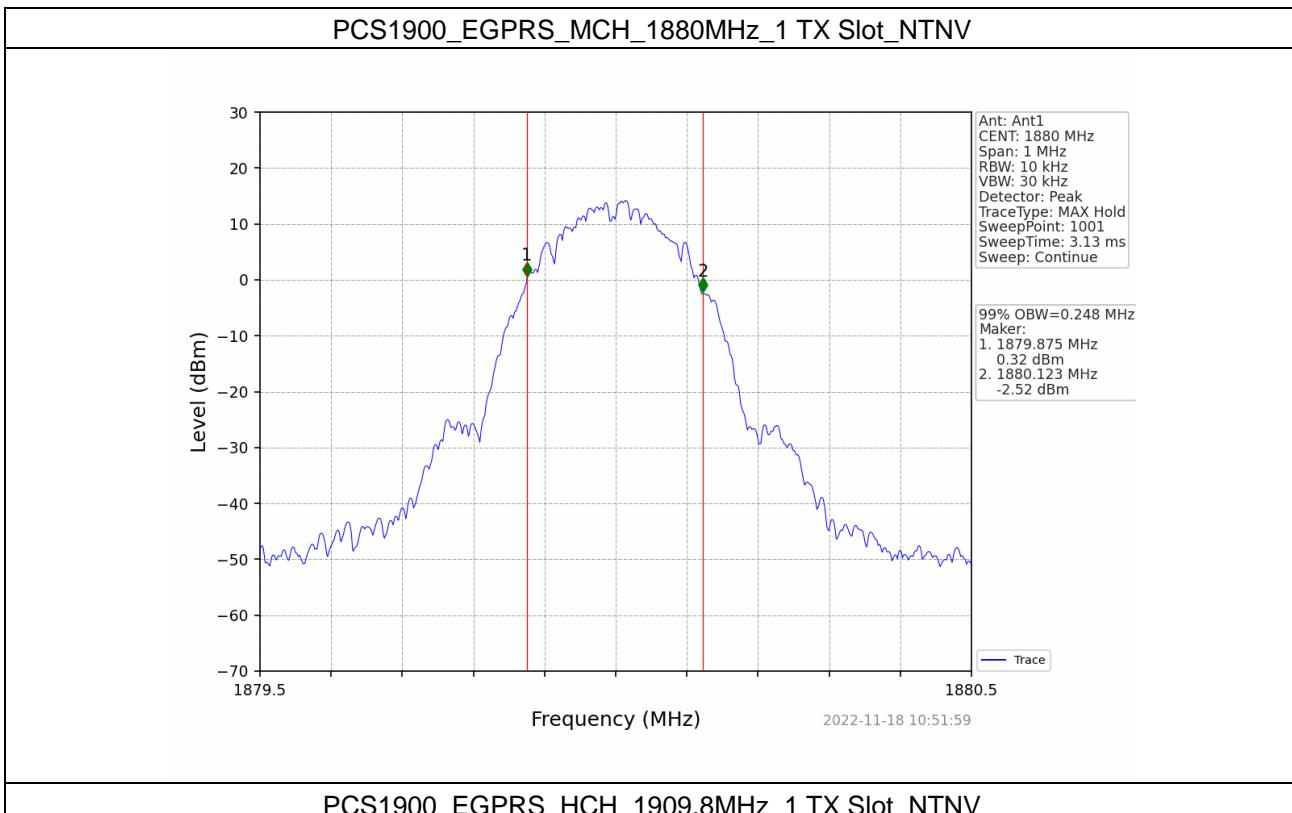
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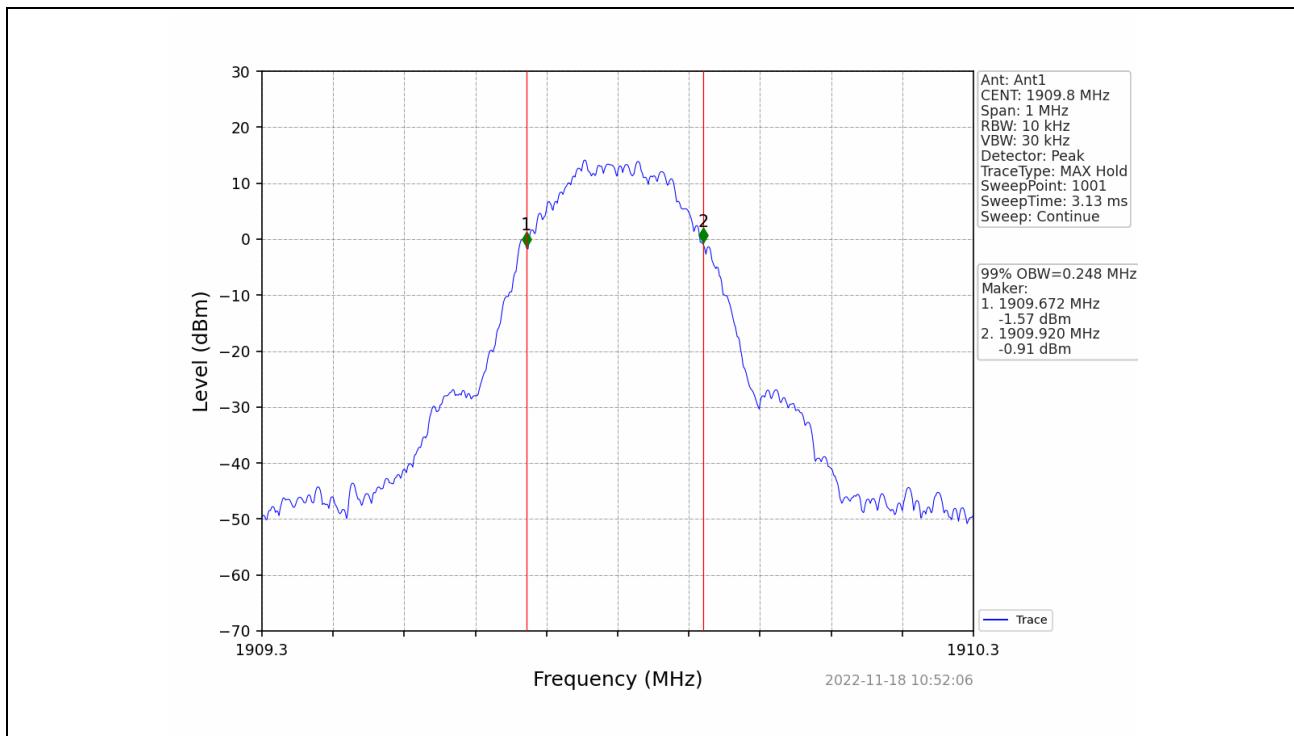


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4.2 PCS1900_XDB

4.2.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.317	Pass
			1880	0.316	Pass
			1909.8	0.315	Pass
	EGPRS	1 TX Slot	1850.2	0.318	Pass
			1880	0.319	Pass
			1909.8	0.319	Pass



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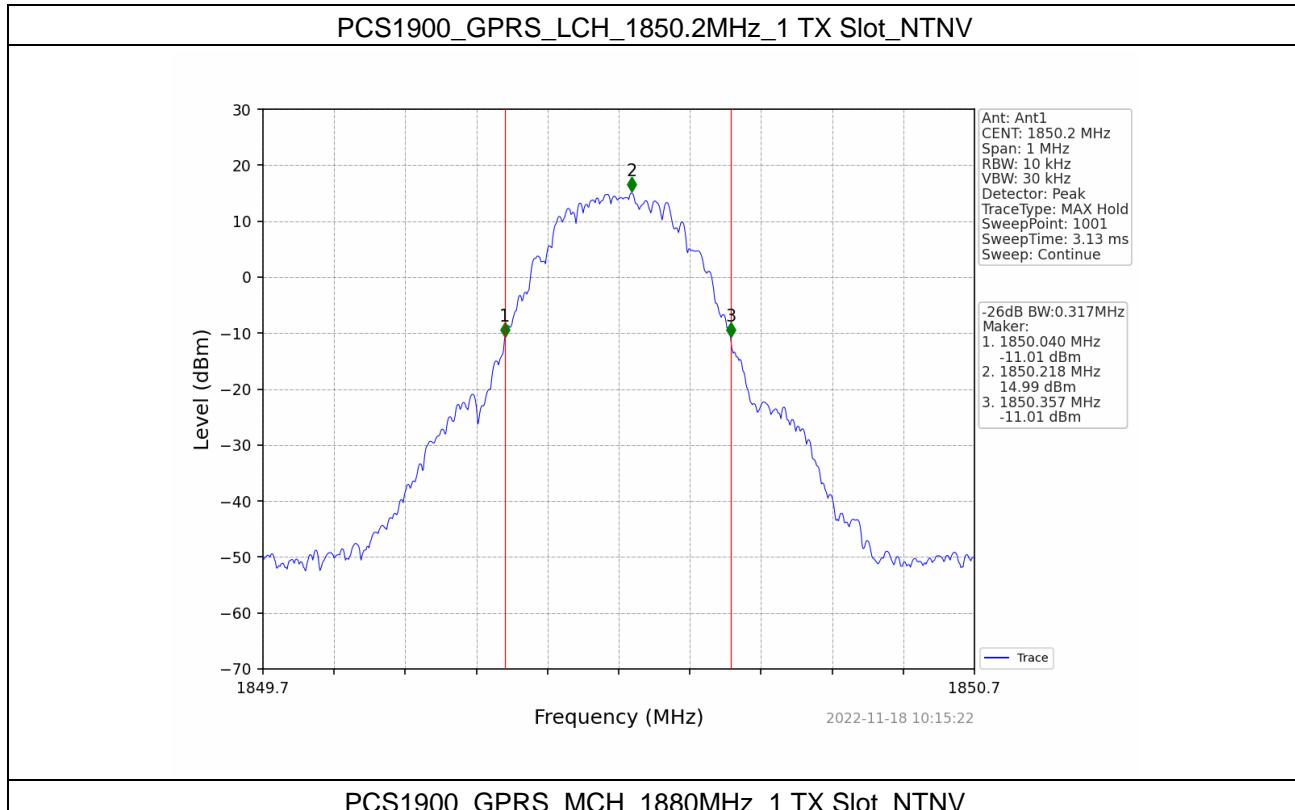
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4.2.2 Test Graph



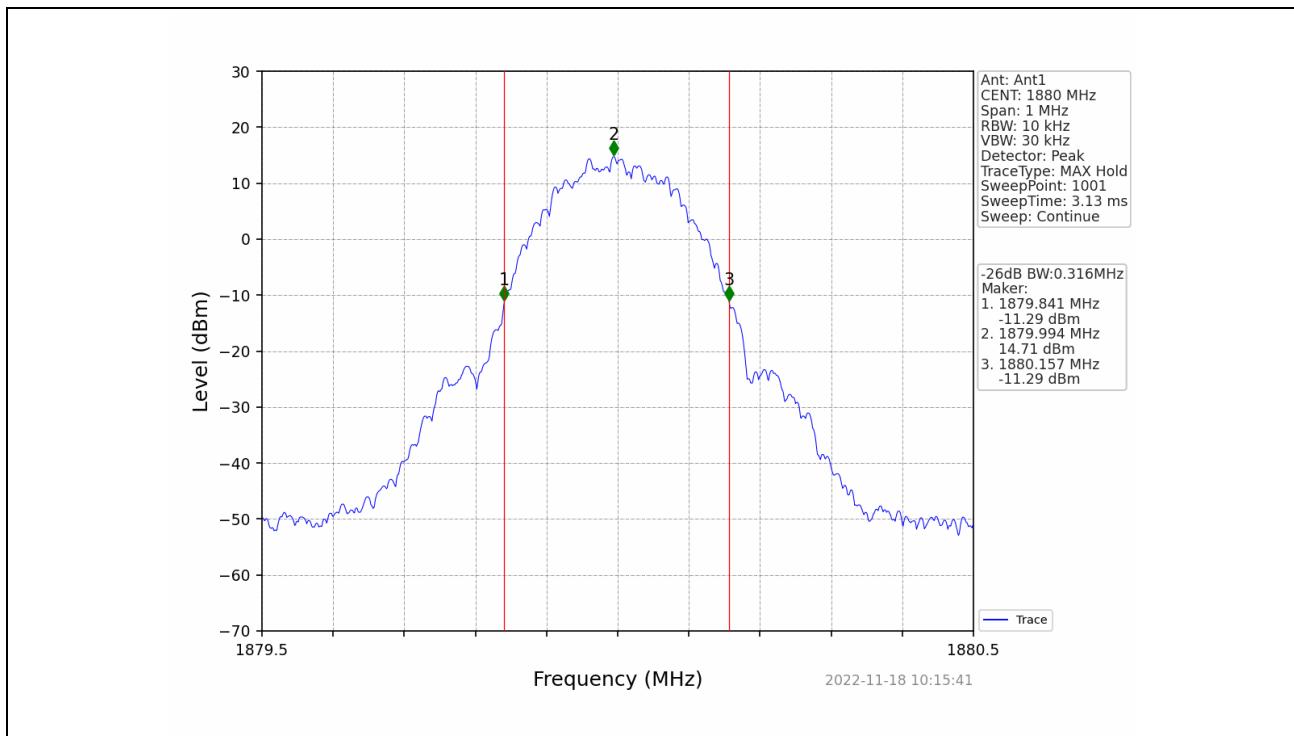
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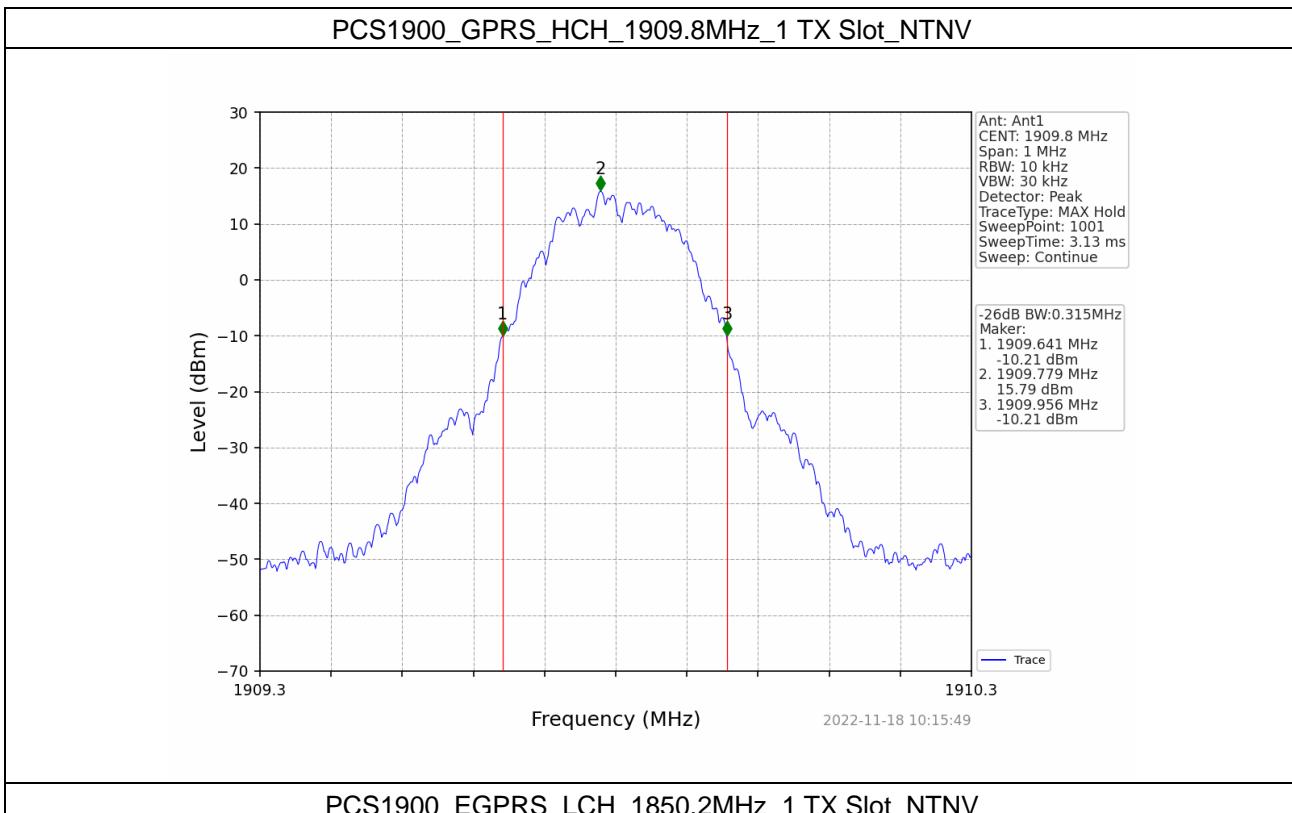
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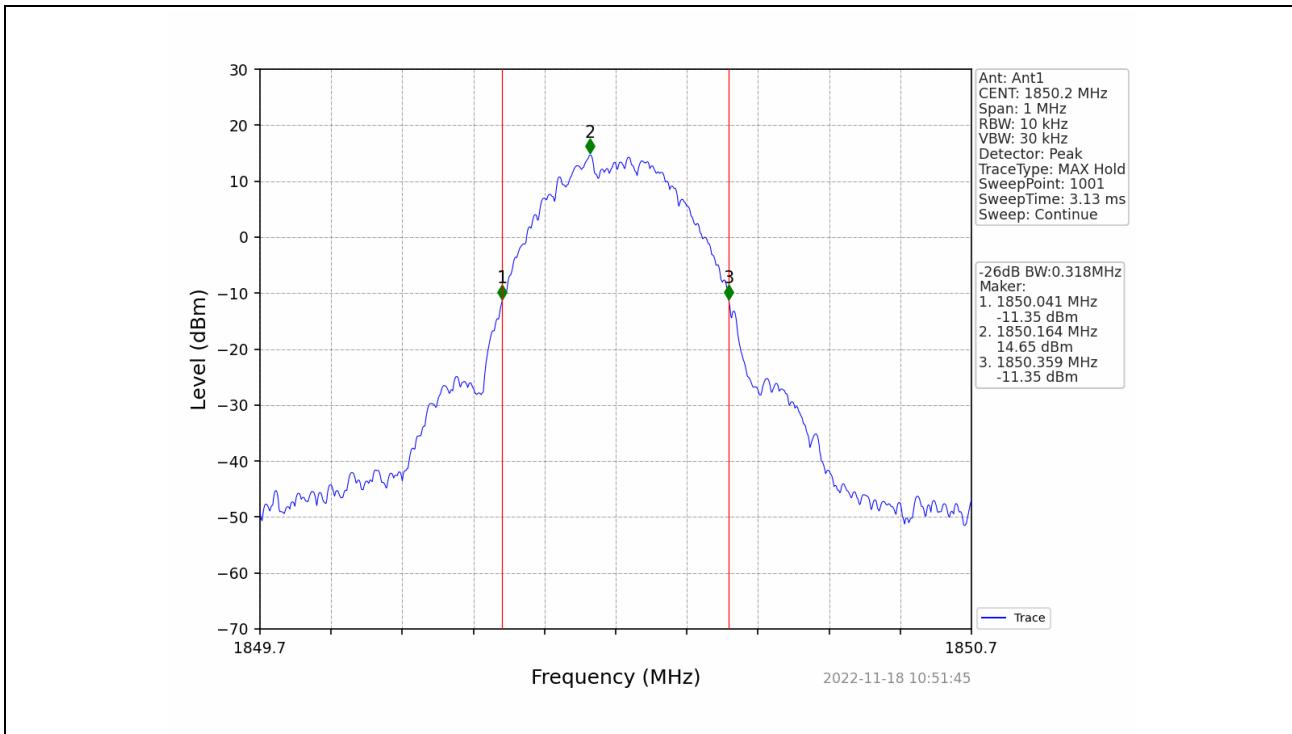
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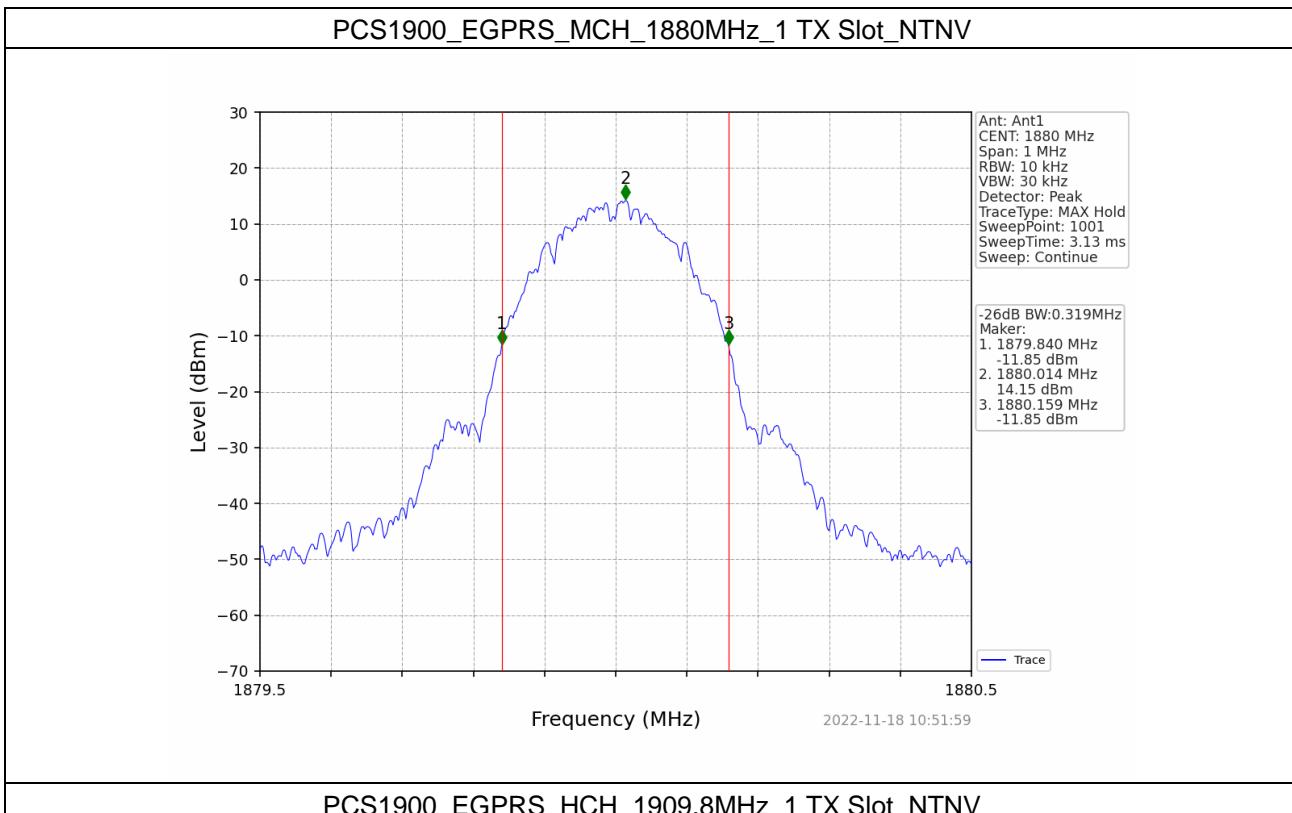


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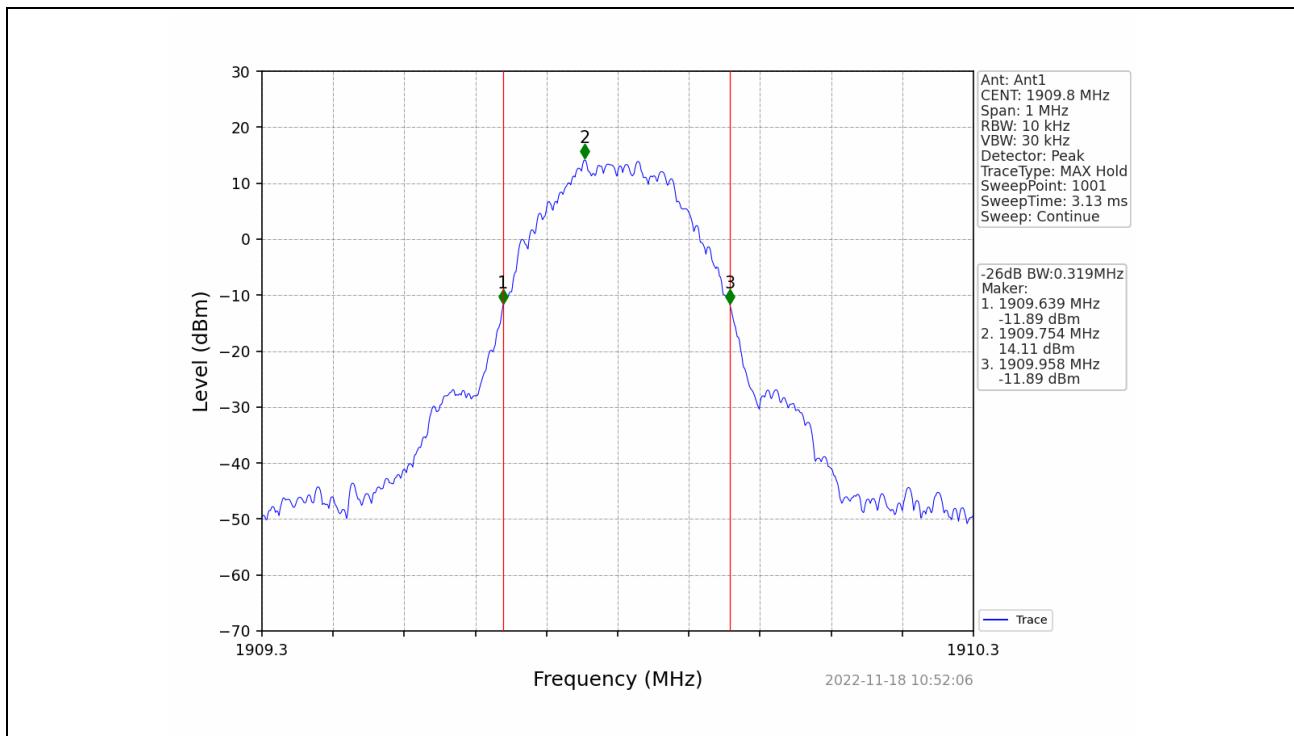


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5. Peak-Average Ratio

5.1 PCS1900

5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.66	<=13	Pass
			1880	9.70	<=13	Pass
			1909.8	4.00	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.66	<=13	Pass
			1880	7.47	<=13	Pass
			1909.8	7.29	<=13	Pass



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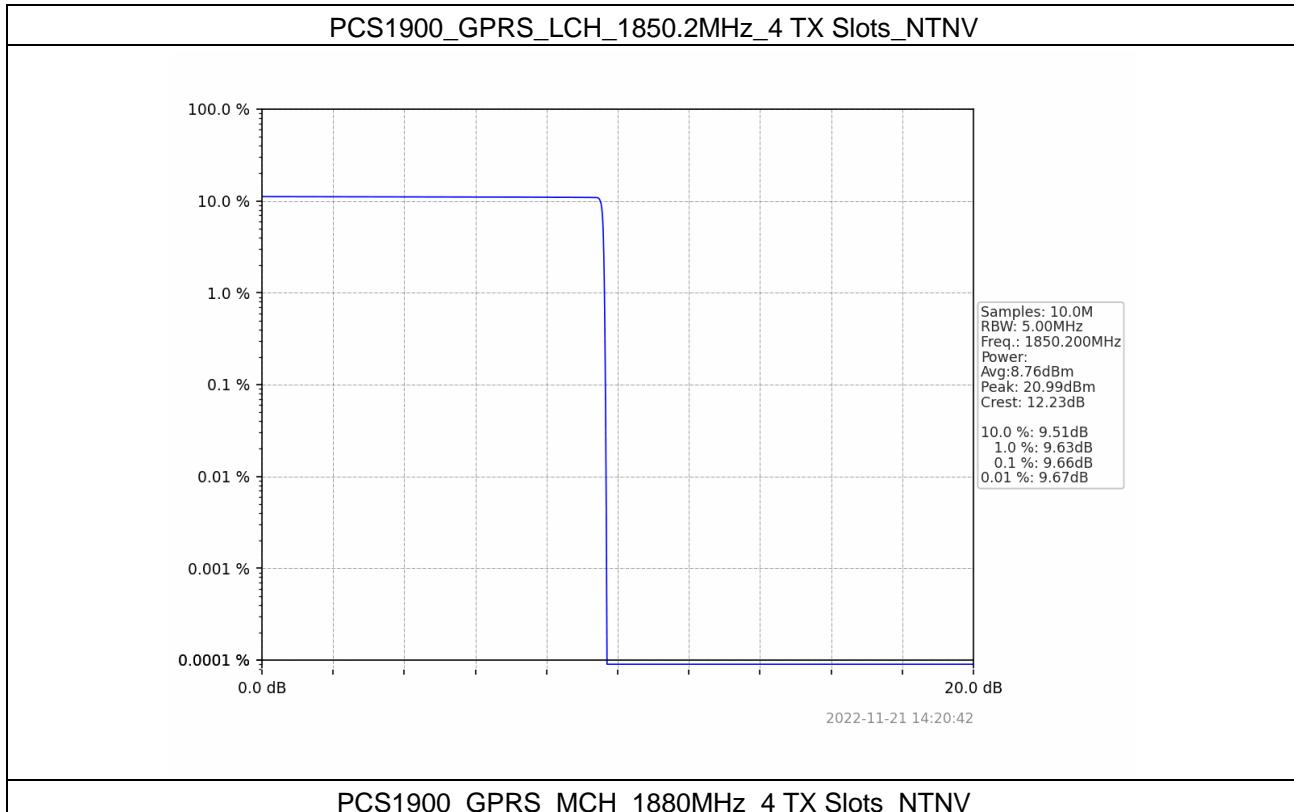
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5.1.2 Test Graph

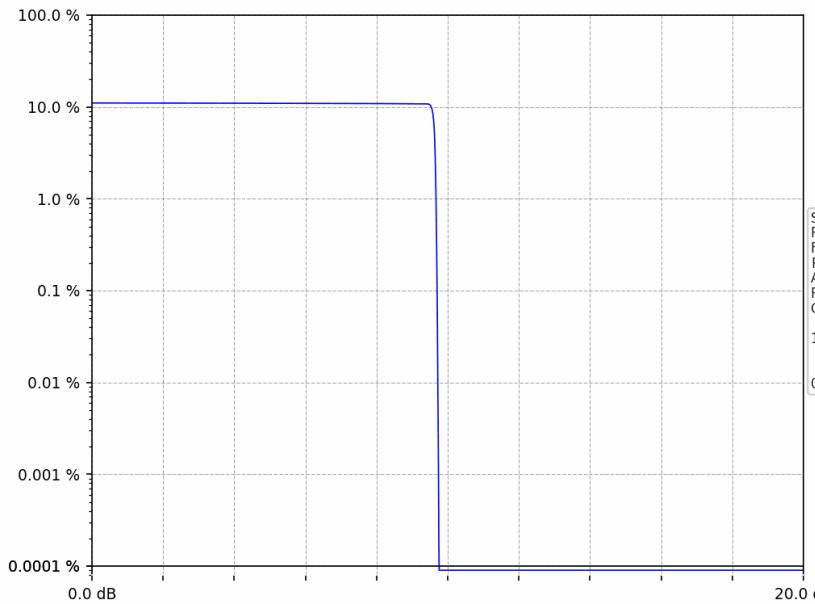


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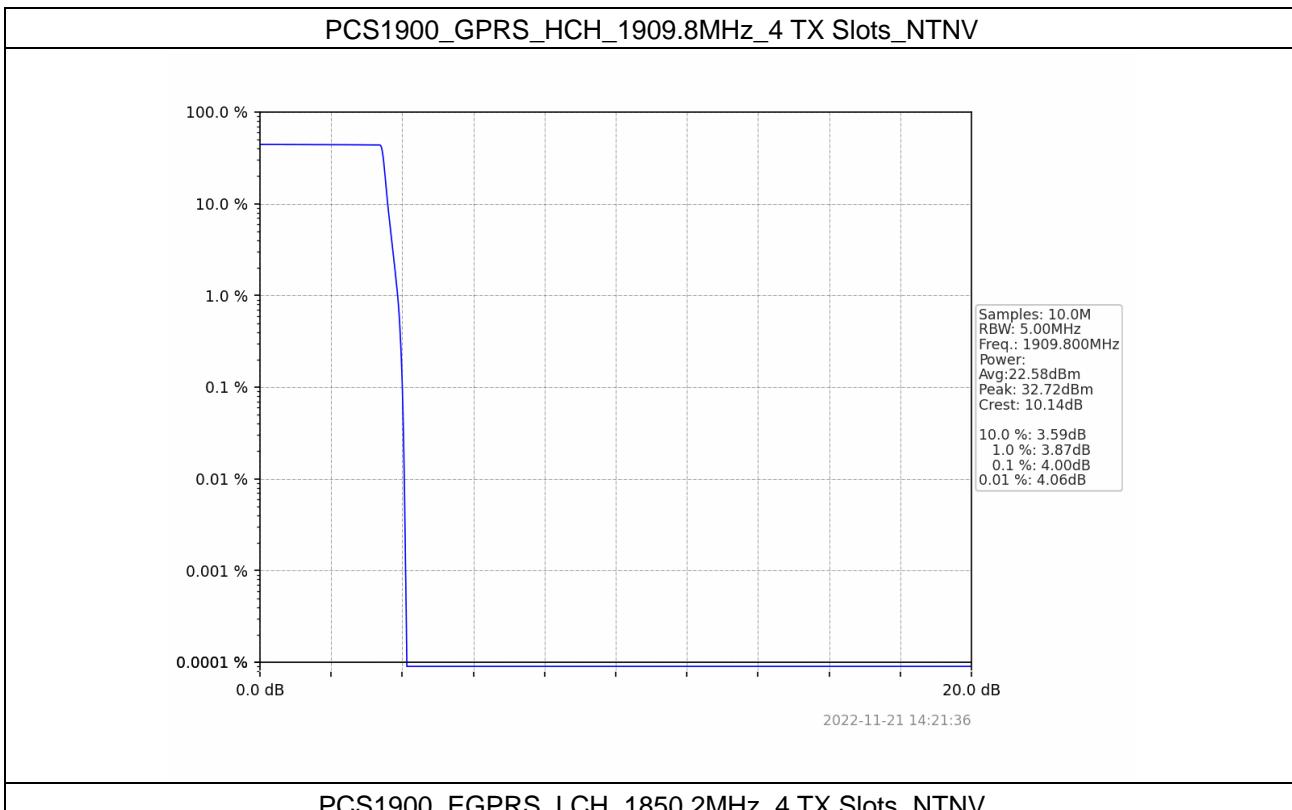


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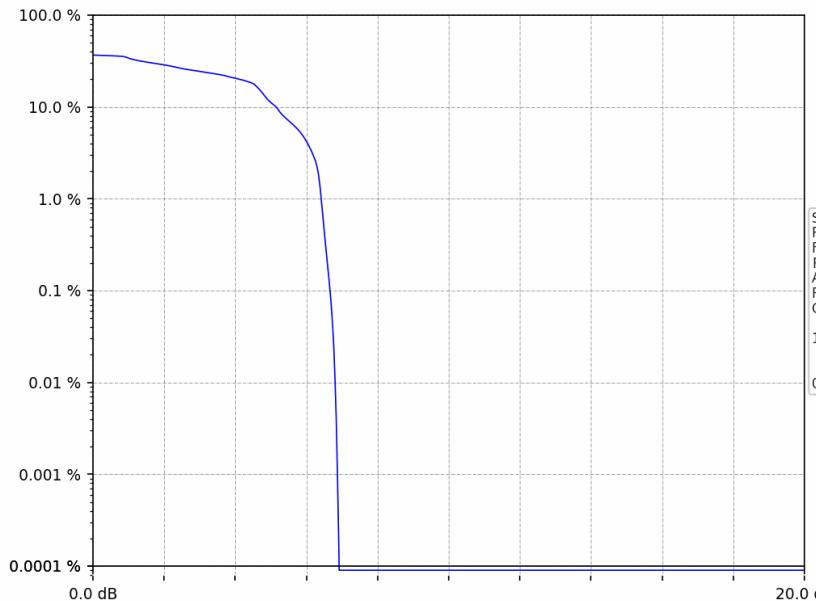
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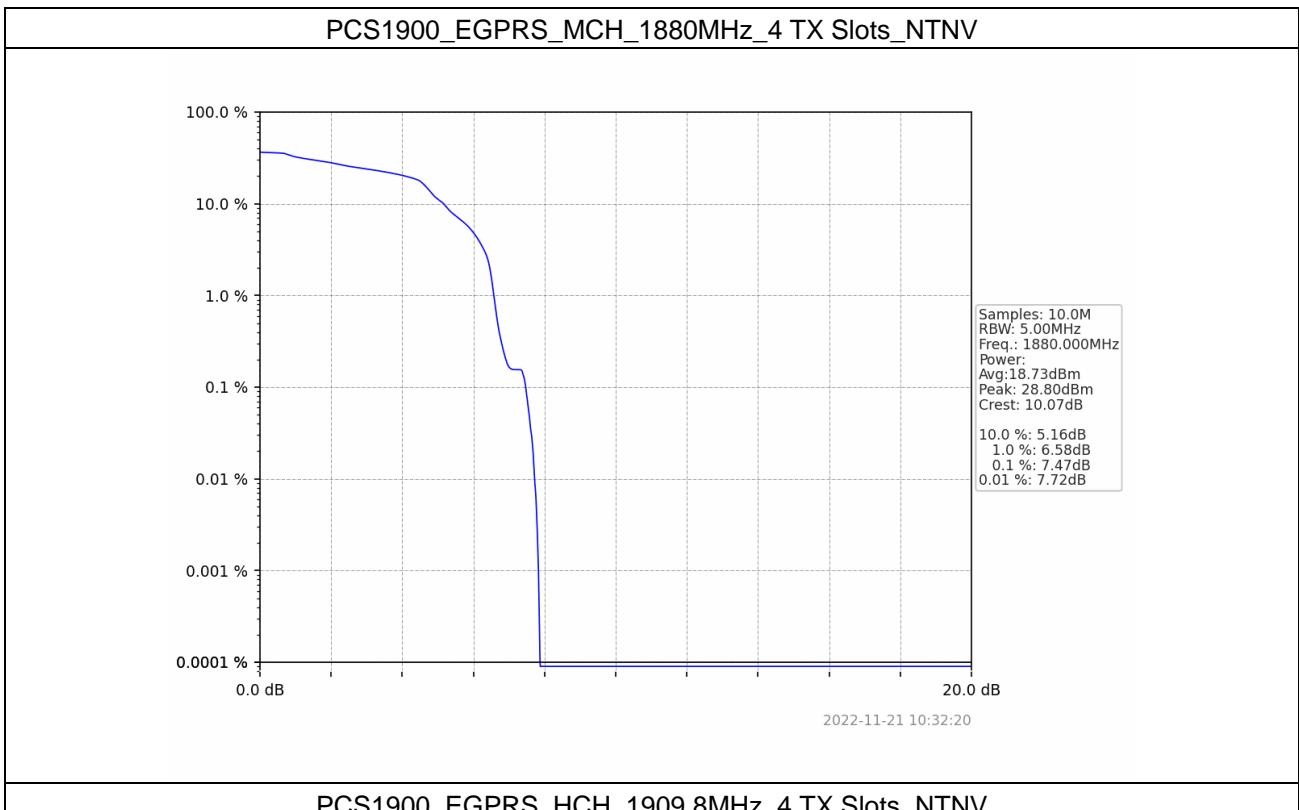


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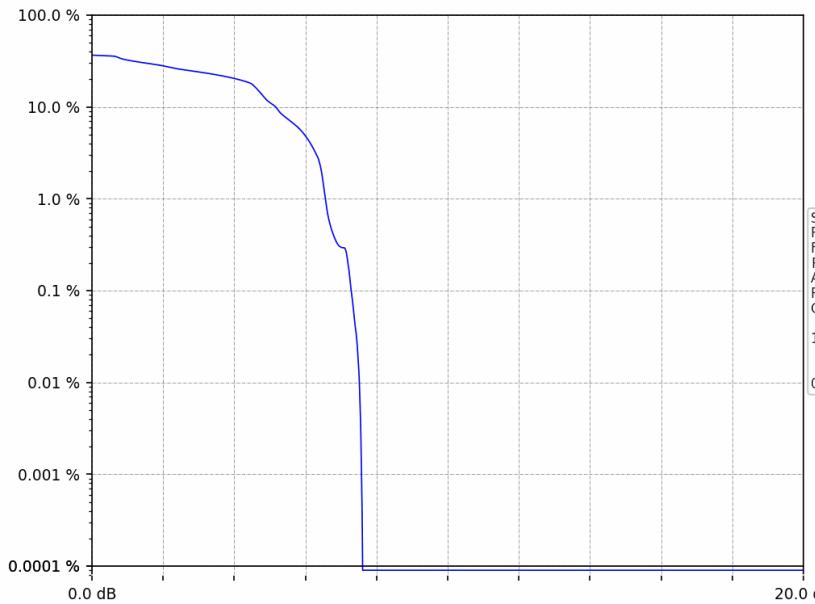
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6. Spurious Emission

6.1 PCS1900

6.1.1 Test Result

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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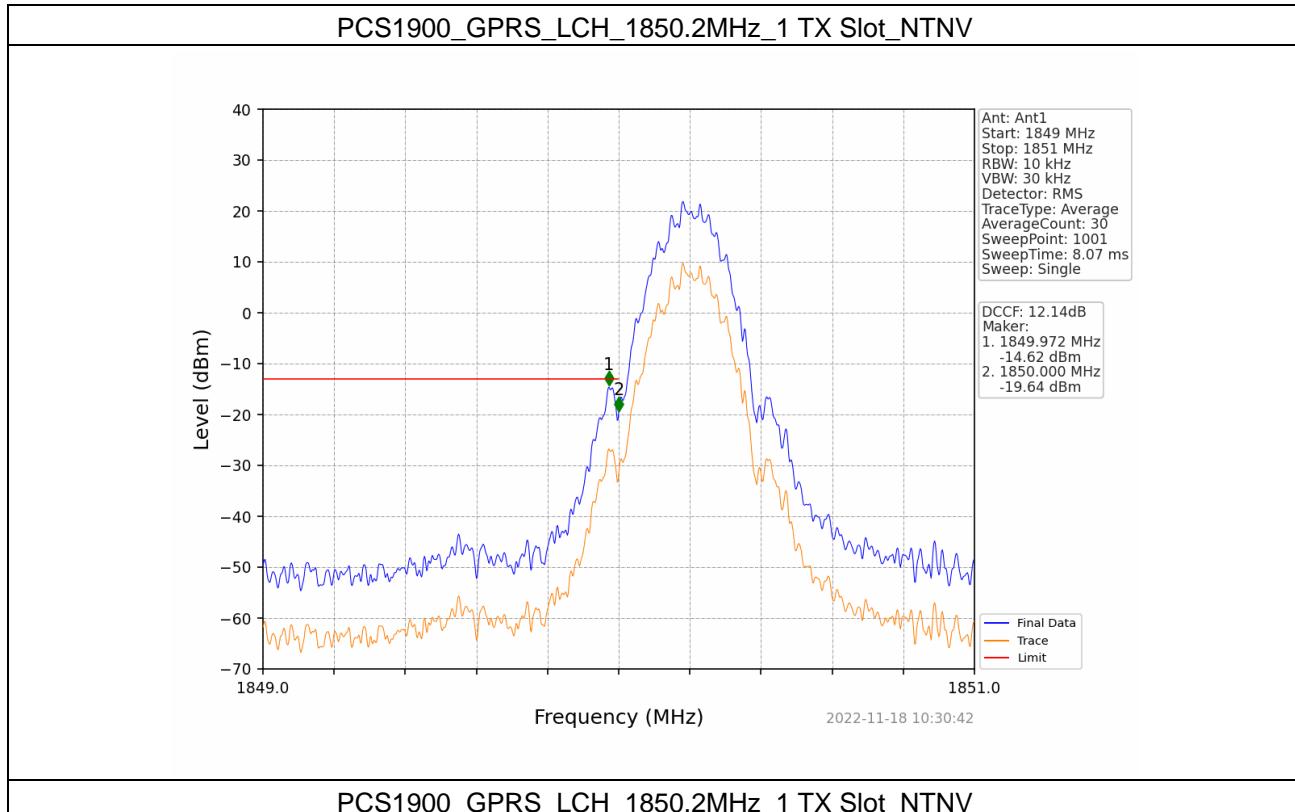
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6.1.2 Test Graph

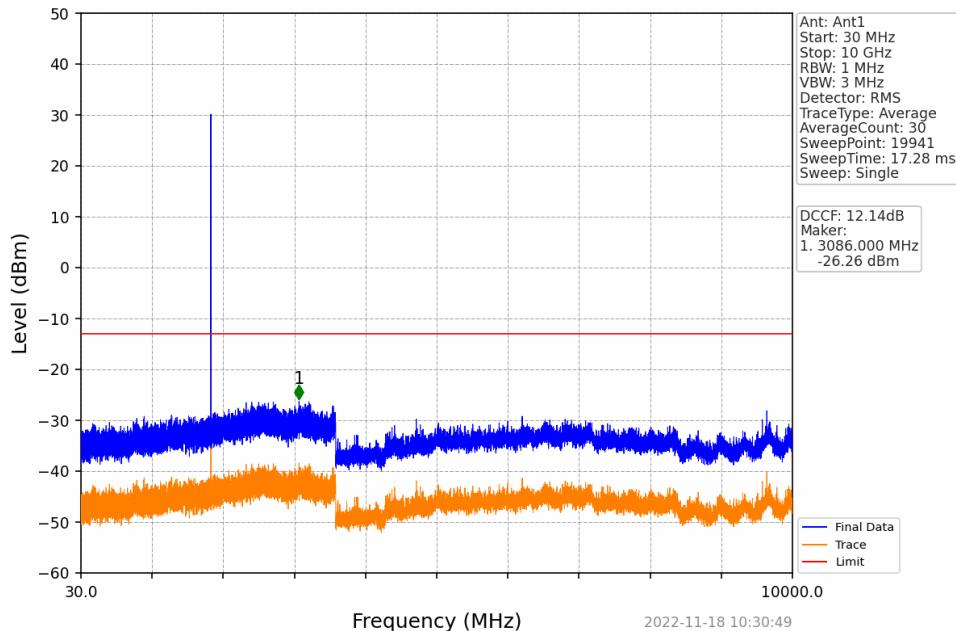


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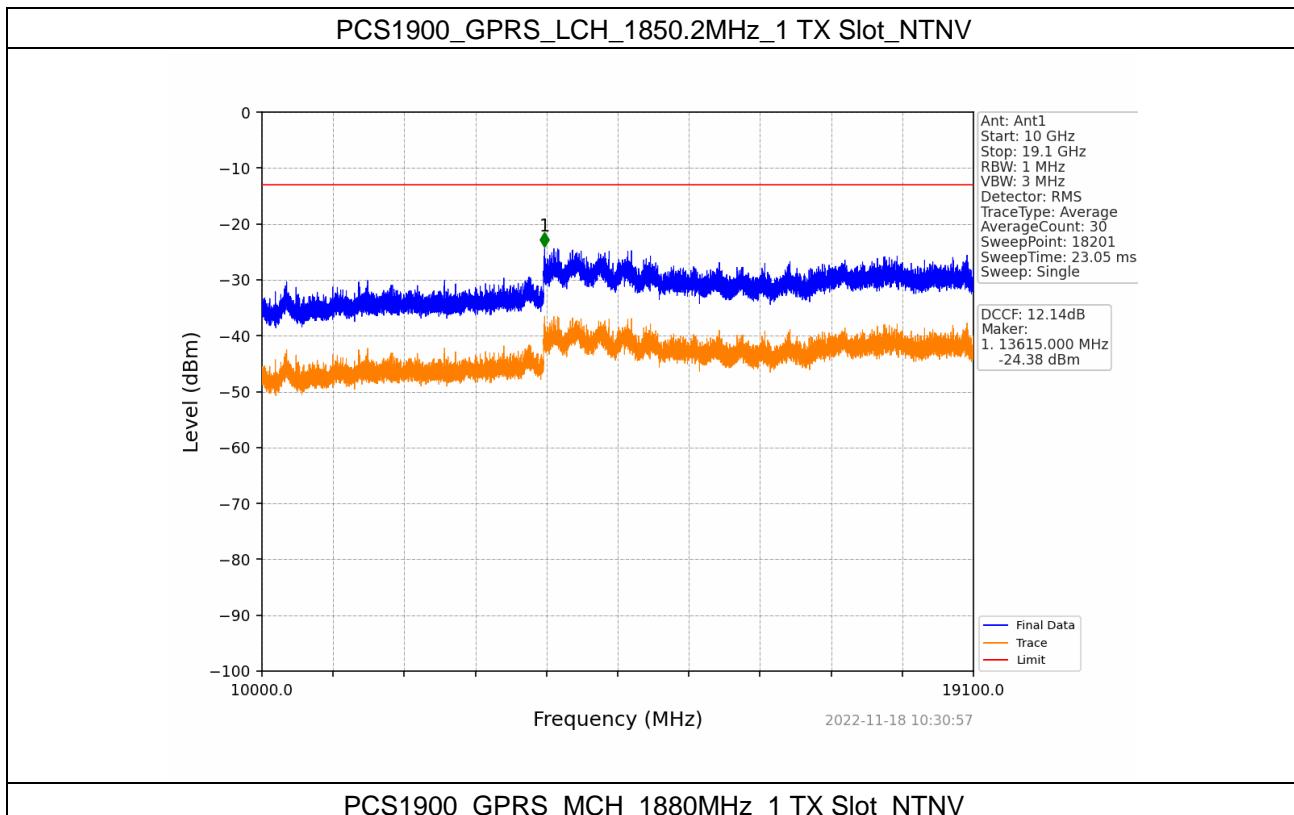
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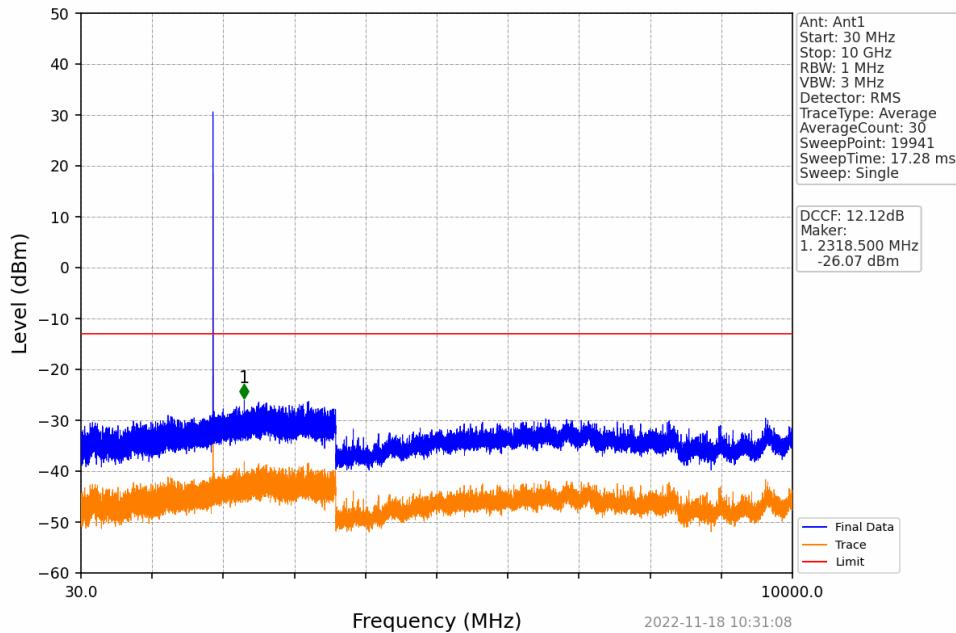
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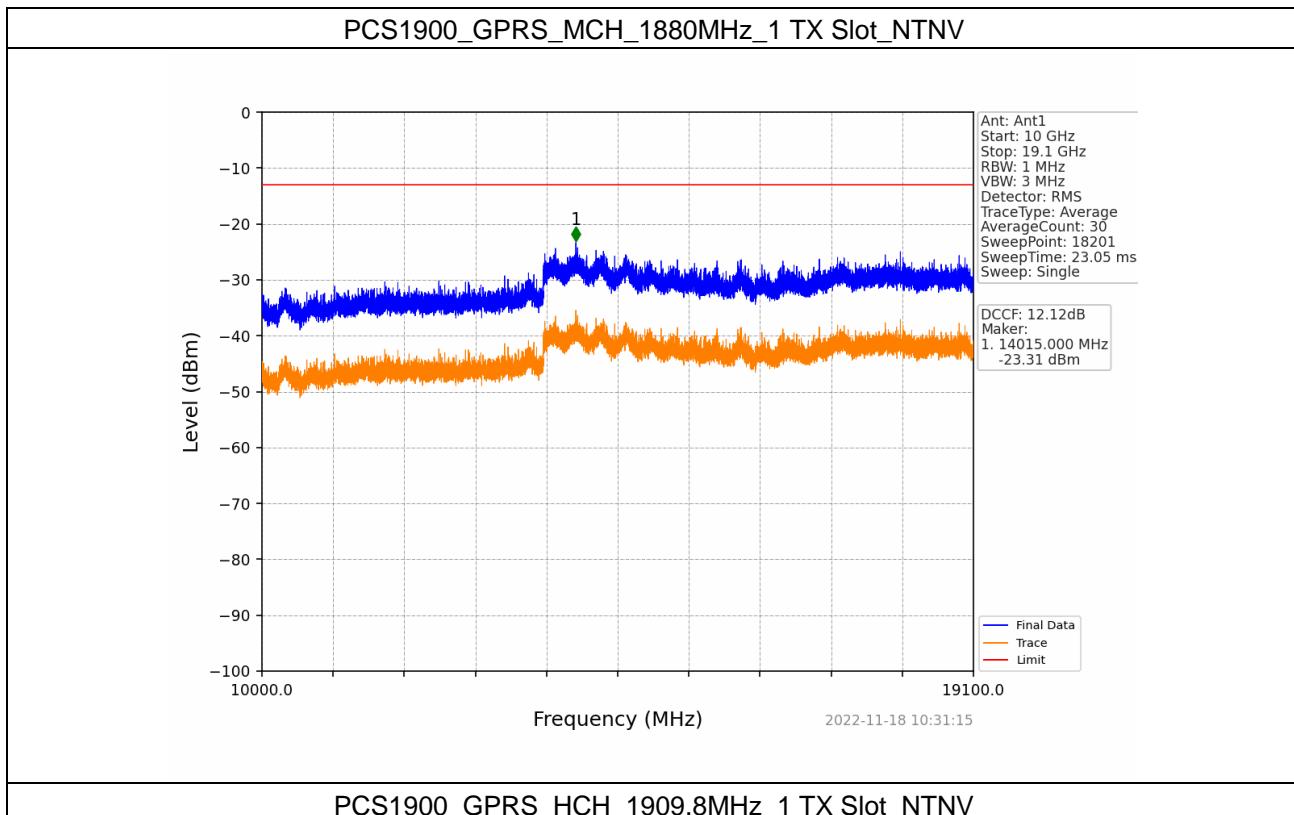
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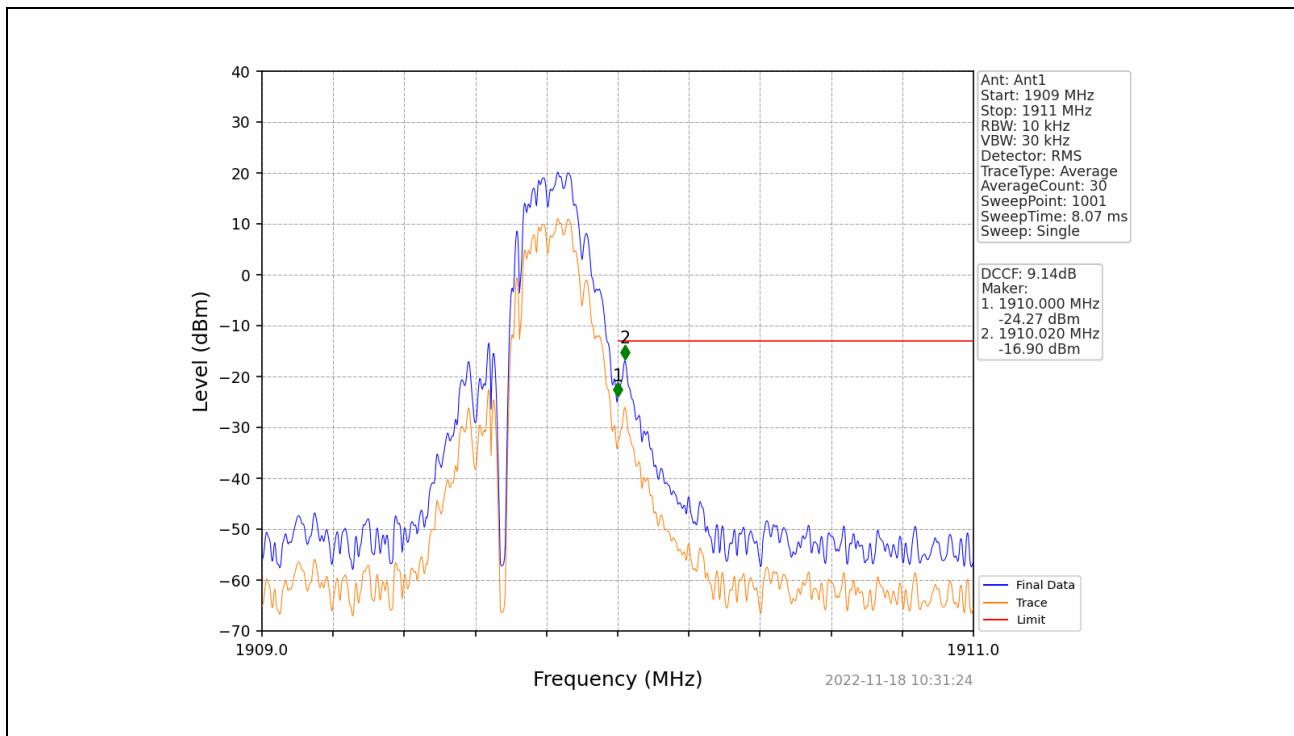
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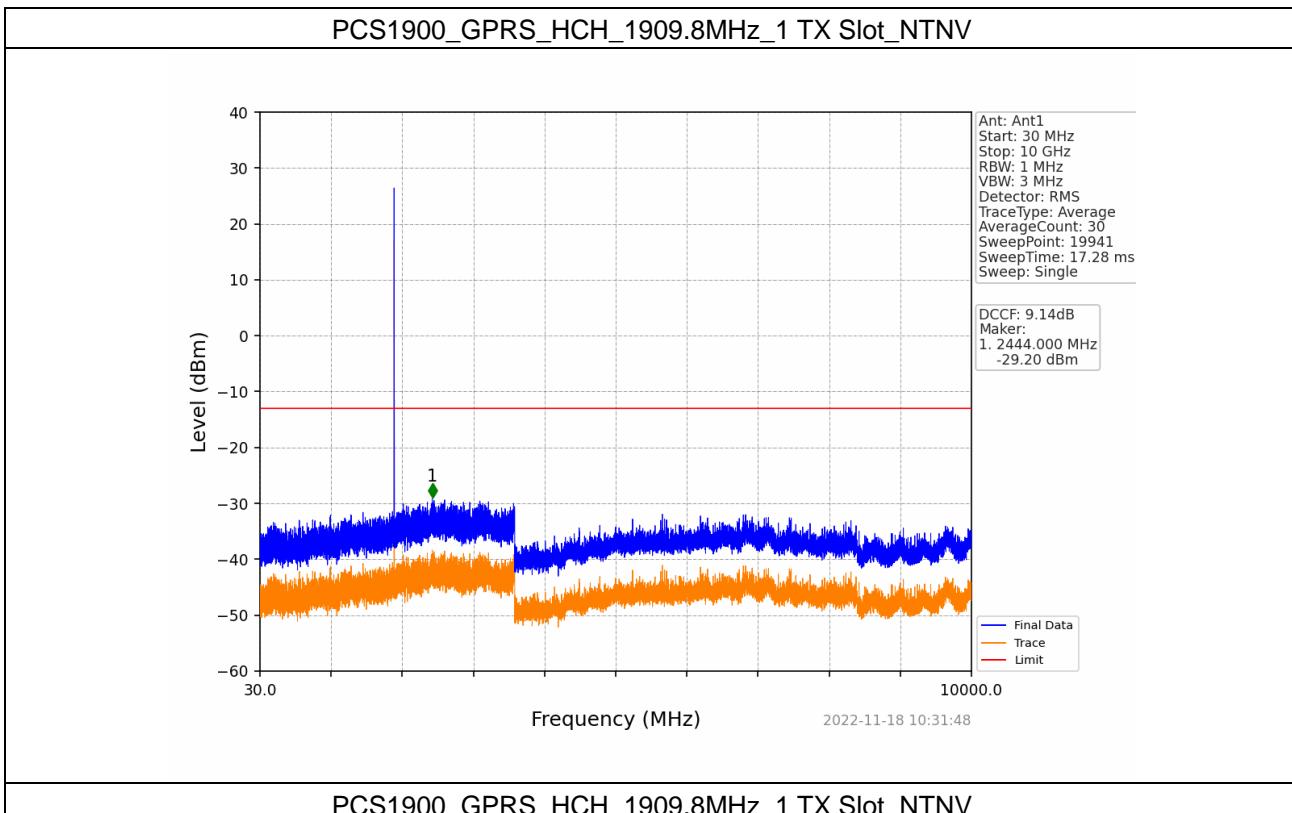


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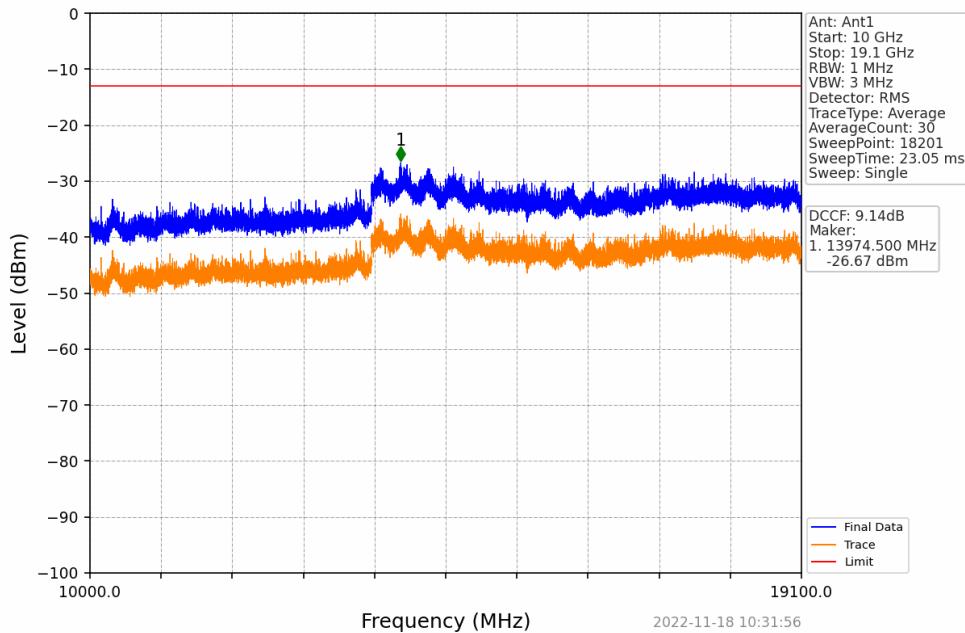
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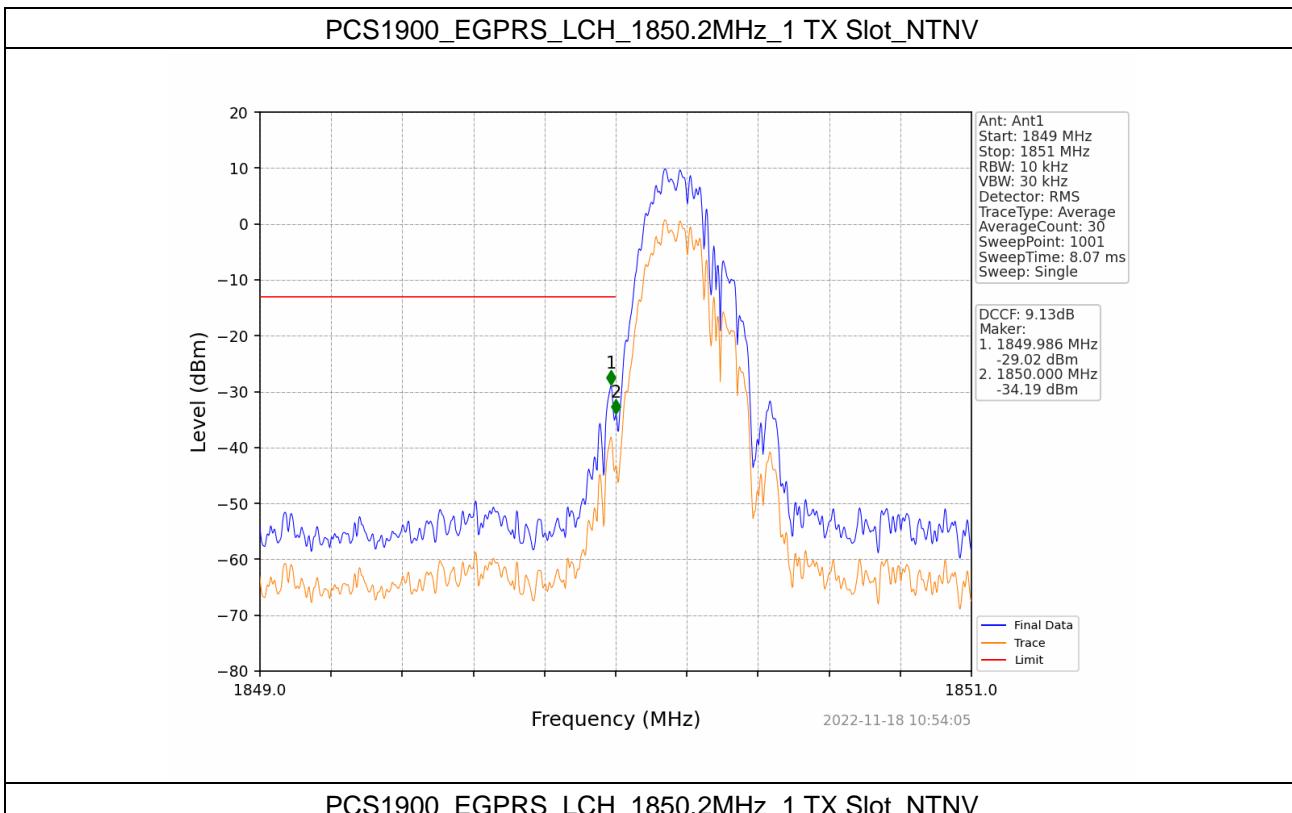
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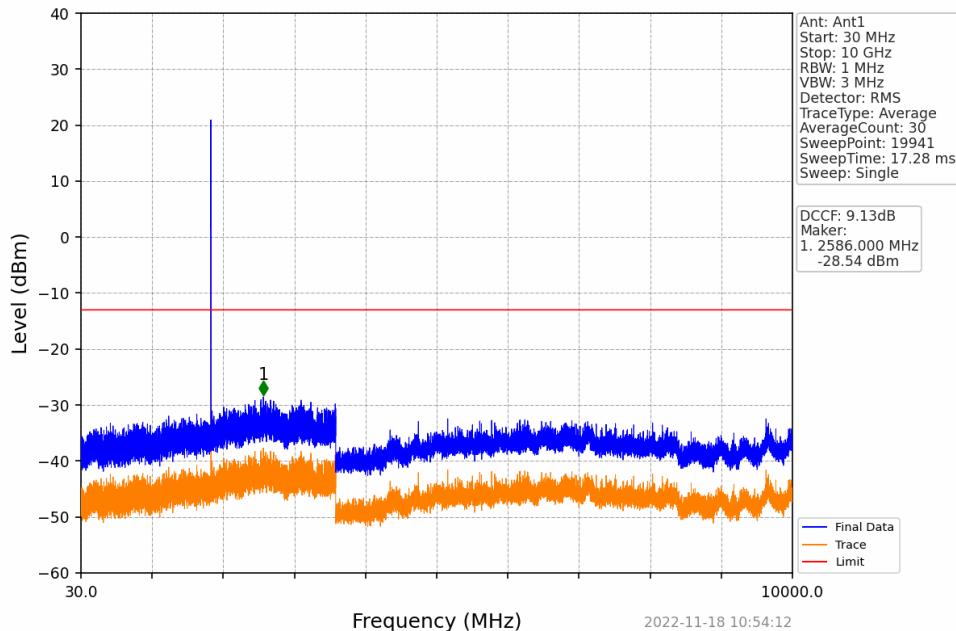


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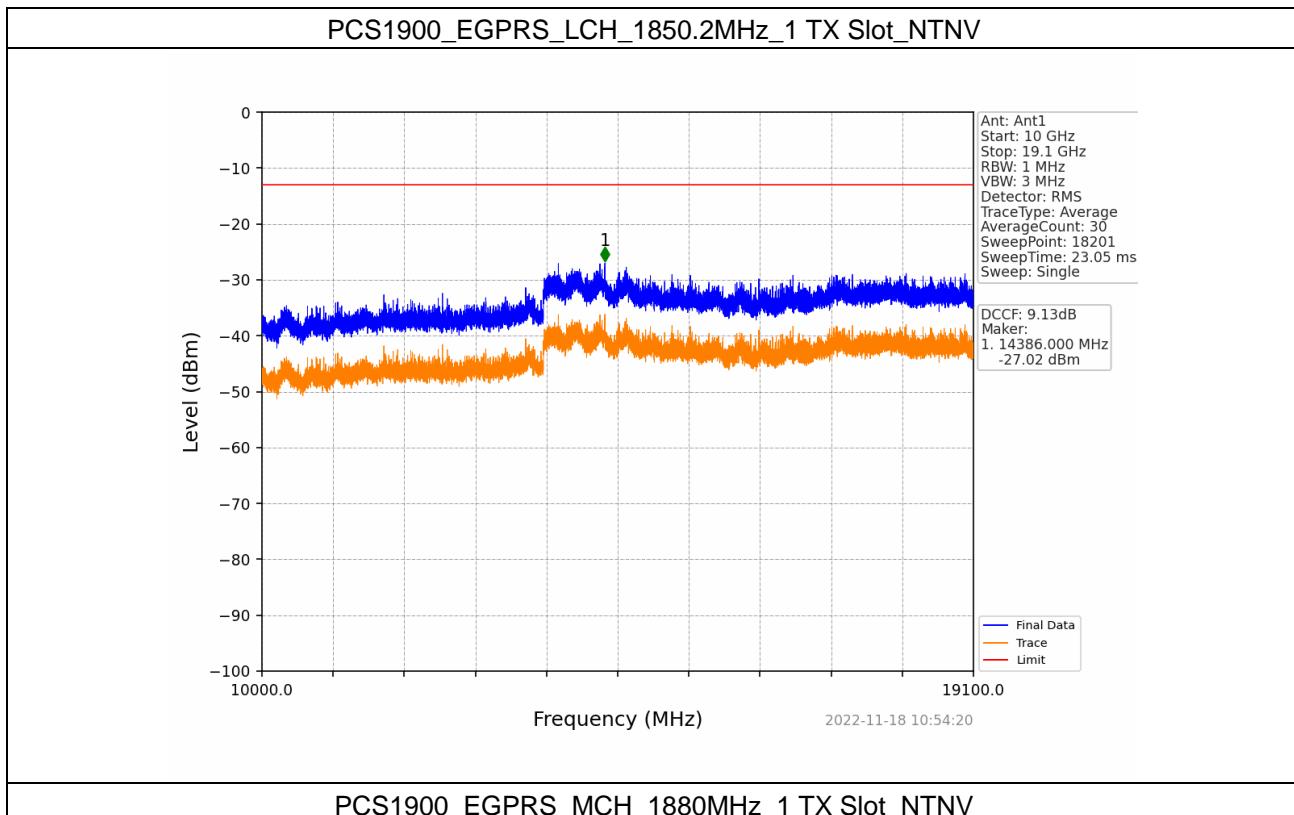
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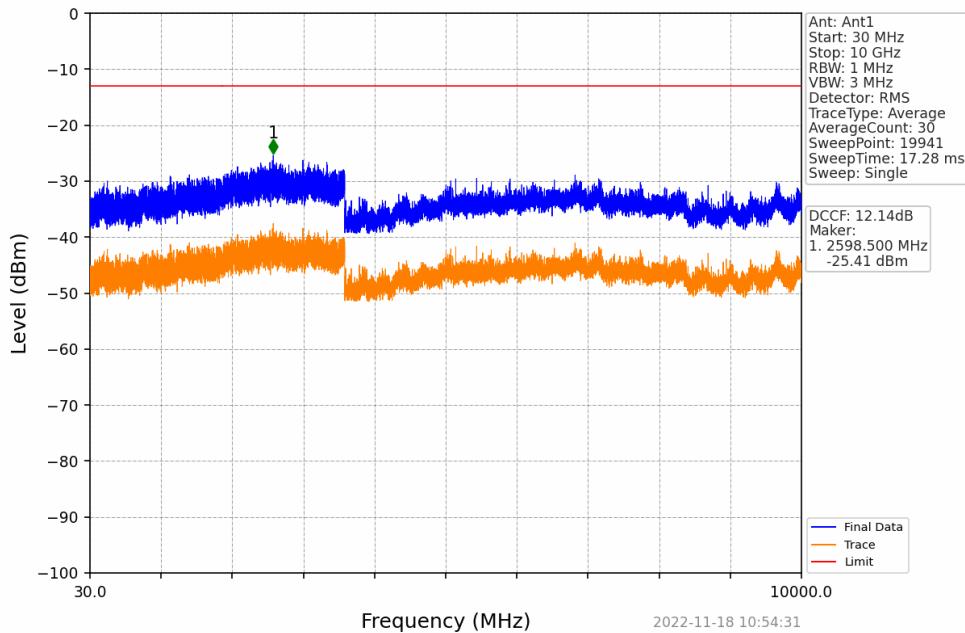


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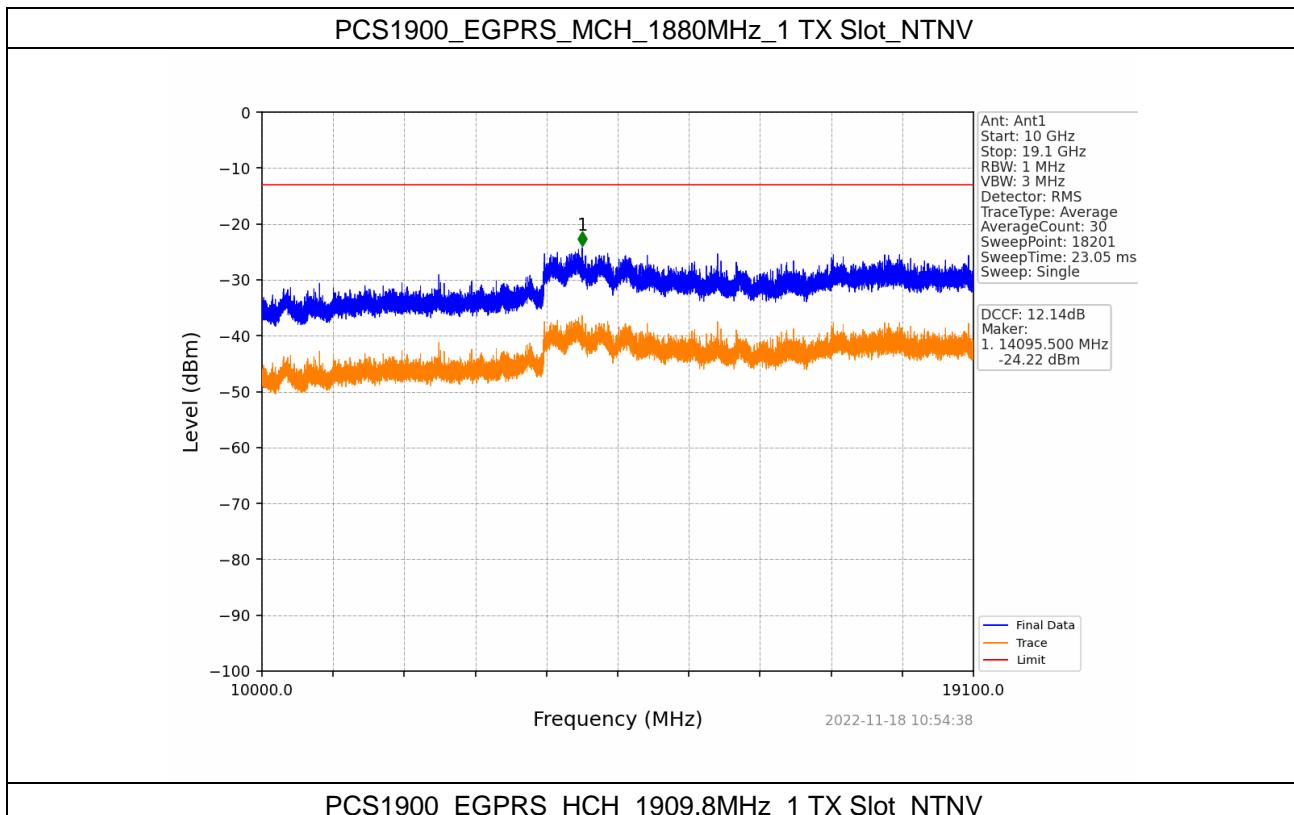
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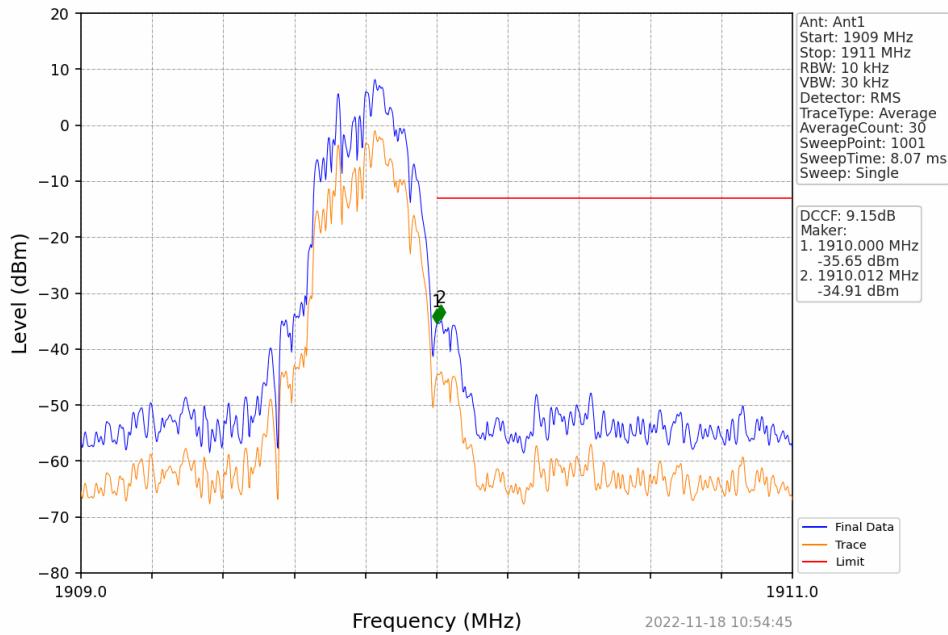


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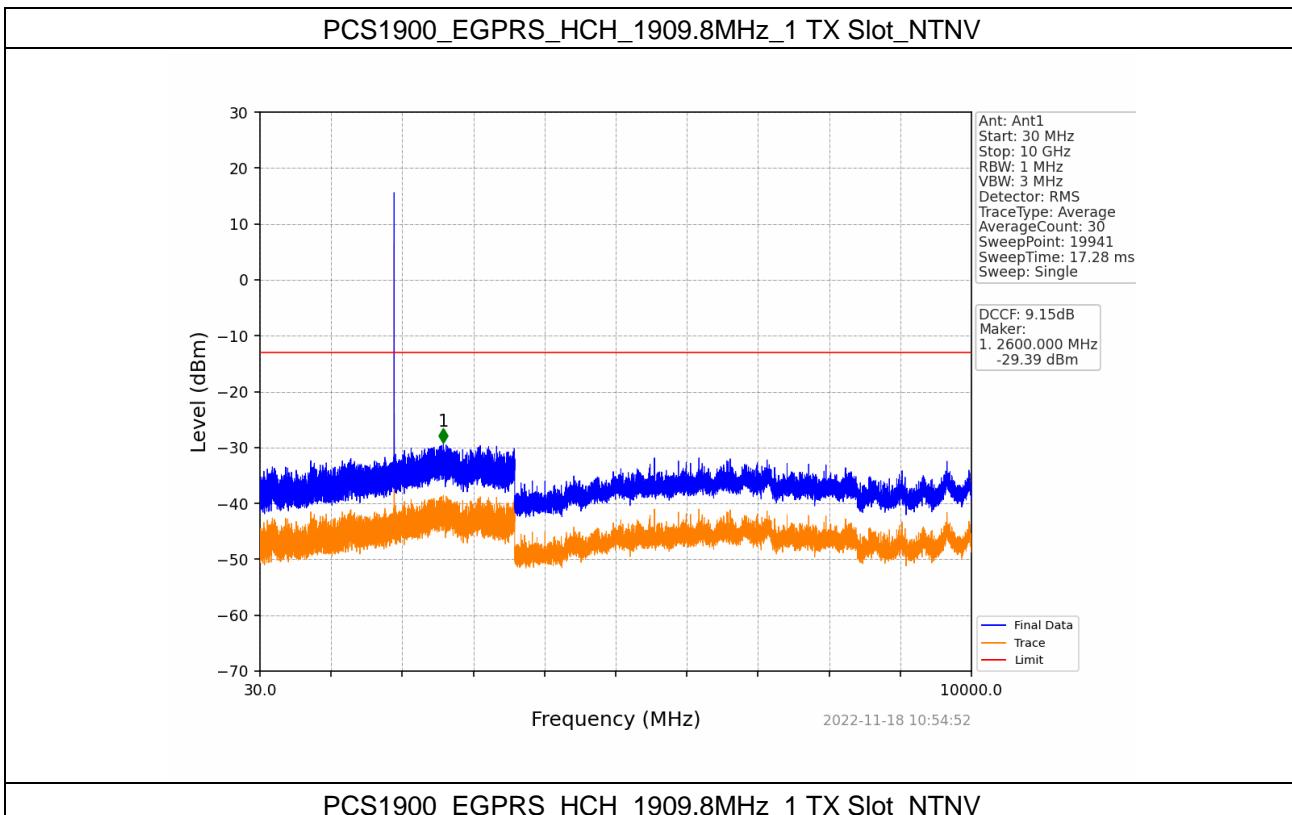


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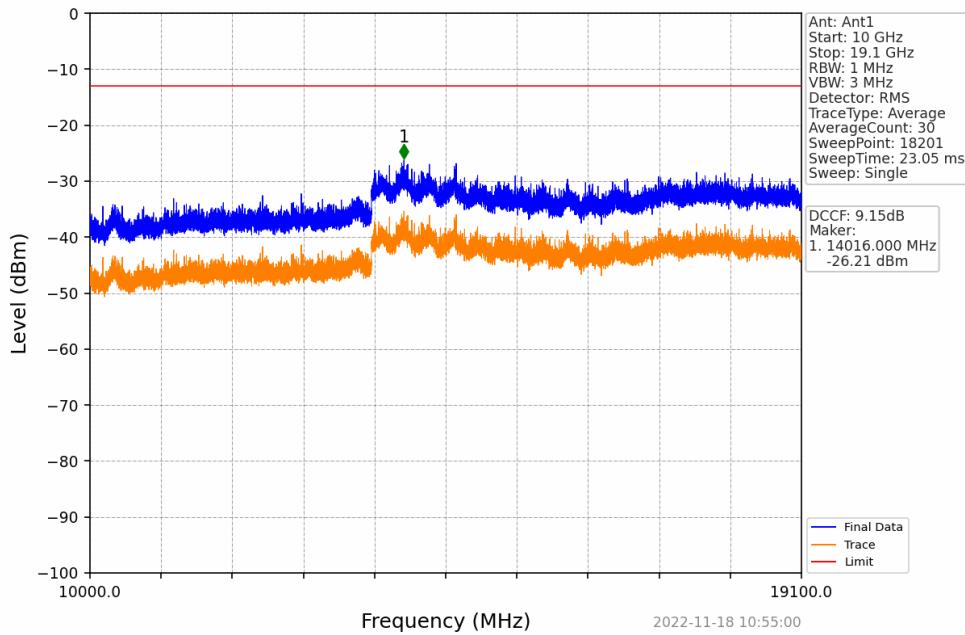
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