

TEST REPORT

Report No.: **CTC2026306701**

FCC ID.....: **2BX4M-YLB04**

Applicant.....: **BEIQI FOTON MOTOR CO.,LTD.**

Address.....: North of Laoniawan Village. Shayang Road, Shahe Town, Changping District, Beijing 102206, China

Manufacturer.....: BEIQI FOTON MOTOR CO.,LTD.

Address.....: North of Laoniawan Village. Shayang Road, Shahe Town, Changping District, Beijing 102206, China

Product Name.....: **Vehicle Terminal**

Trade Mark.....: FOTON

Model/Type reference.....: YLB04

Listed Model(s): /

Standard.....: **FCC CFR47 PART 22H, 24E, 27L**

Test Report Form No...... CTC-TR-058_A5

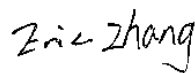
Master TRF Dated 2026-06-01

Date of receipt of test sample.: Jun. 22, 2026

Date of testing.....: Jun. 23, 2026 ~ Aug. 31, 2026

Date of issue.....: Sep. 28, 2026

Result.....: **PASS**

Compiled by:		
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Supervised by:		
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Approved by:		
(Printed name+signature)	Totti Zhao	

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1. SUMMARY

1.1. Test Standards

[FCC Rules Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS
[FCC Rules Part 22](#): PRIVATE LAND MOBILE RADIO SERVICES.
[FCC Rules Part 24](#): PUBLIC MOBILE SERVICES
[FCC Rules Part 27](#): MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES
[TIA/EIA 603 E March 2016](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.
[ANSI C63.26: 2015](#): American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
[KDB 971168 D01 Power Meas License Digital Systems v03](#): MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version

Revised No.	Report No.	Date of issue	Description
01	CTC2026306701	Sep. 28, 2026	Original

1.3. Test Description

Test Item	FCC Rule	Result	Note
Conducted Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	Pass	
Peak-to-Average Ratio	Part 24.232 Part 27.50	Pass	
99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53	Pass	
Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	
Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	
Frequency stability vs temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Pass	
Frequency stability vs voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54	Pass	
ERP and EIRP	Part 22.913(a) Part 24.232(b) Part 27.50	Pass	
Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	Pass	

Note: The measurement uncertainty is not included in the test result.

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, Part 22, Part 24, Part 27, FCC KDB 971168 D01 v03r01/ D02 v02r01, KDB 412172 D01 v01r01, ANSI C63.26:2015.

1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luh Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

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

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC)Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTC Laboratories, Inc. is reported:

Test Items	Measurement Uncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emission 1~18GHz	5.16 dB	(1)
Radiated Emission 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)
Emission Mask	-----	(1)
Modulation Characteristic	-----	(1)
Transmitter Frequency Behavior	-----	(1)

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	20°C-25°C
Relative Humidity:	50 %-55 %
Air Pressure:	101kPa

2. GENERAL INFORMATION

2.1. Client Information

Applicant:	BEIQI FOTON MOTOR CO.,LTD.
Address:	North of Laoniawan Village. Shayang Road, Shahe Town, Changping District, Beijing 102206, China
Manufacturer:	BEIQI FOTON MOTOR CO.,LTD.
Address:	North of Laoniawan Village. Shayang Road, Shahe Town, Changping District, Beijing 102206, China
Factory:	Xiamen Yaxon Zhilian Technology Co.,Ltd.
Address:	No.1899 Min'an Avenue, Torch High-tech Industrial Development Zone, Xiang'an District, Xiamen City, Fujian Province P.R. China, Post code:361101

2.2. General Description of EUT

Product Name:	Vehicle Terminal
Trade Mark:	FOTON
Model/Type reference:	YLB04
Listed Model(s):	/
Sample ID:	CTC-GC260617-002-S001
Power supply:	DC 12V
Hardware version:	/
Software version:	/
GSM	
Operation Band:	GSM 850: UL: 824MHz~849MHz, DL: 869MHz~894MHz PCS 1900: UL: 1850MHz~1910, DL: 1930MHz~1990MHz
Supported Type:	GPRS/EGPRS
Modulation Type:	GMSK for GPRS, 8PSK for EGPRS
Antenna Type:	Patch Antenna
Antenna Gain:	Main Antenna: GSM 850: 0.32dBi Max PCS 1900: 2.35dBi Max
WCDMA	
Operation Band:	Band II: UL: 1852.4MHz~1907.6MHz, DL: 1932.6MHz~1987.4MHz Band V: UL: 826.4MHz~846.6MHz, DL: 871.4MHz~891.6MHz
Modulation Type:	QPSK for WCDMA/HSUPA/HSDPA
Antenna Type:	Patch Antenna
Antenna Gain:	Main Antenna: WCDMA Band II: 2.35dBi Max WCDMA Band V: 0.32dBi Max

2.3. Description of Test Modes and Test Frequency

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing.

Test Frequency:

GSM 850		PCS 1900	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20
190	836.60	661	1880.00
251	848.80	810	1909.80

WCDMA Band II		WCDMA Band V	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
9262	1852.40	4132	826.40
9400	1880.00	4182	836.40
9538	1907.60	4233	846.60

2.4. Measurement Instruments List

Radiated emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Dec. 17, 2026
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Oct. 16, 2027
3	Spectrum Analyzer	R&S	FSV40-N	101654	Dec. 12, 2026
4	Pre-Amplifier	SONOMA	310	186194	Dec. 12, 2026
5	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 12, 2026
6	Test Receiver	R&S	ESCI7	100967	Dec. 12, 2026
7	3m chamber 2	Frankonia	EE025	/	Oct. 18, 2027
8	Test Software	FARA	EZ-EMC	FA-03A2	/

RF Test System – 2/3/4G					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	MXA Signal Analyzer	Keysight	N9020A	MY52091402	Dec. 12, 2026
2	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 12, 2026
3	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 24, 2027
4	RF Cable	HUBER+SUHNER	SUCOFLEX101PE	RF-11	Apr. 15, 2027
Test Software					
Name		Manufacturer		Software Version	
JS1120		Tonscend		V3.1.46	

Note: 1. The Cal. Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.

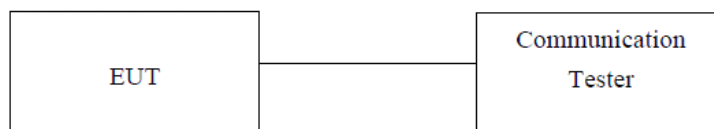
3. TEST ITEM AND RESULTS

3.1. Output Power (ERP / EIRP / Conducted Power)

LIMIT

FCC: §2.1046, §22.913, §24.232, §27.50

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

KDB 971168 D01 V03r01 Section 5.2.1, for Conducted Output Power

KDB 971168 D01 V03r01 Section 5.2, for Effective (Isotropic) Radiated Power

Conducted Output Power:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the simulated base station. The simulated station was set to force the EUT to its maximum power setting, Transmitter output power was read off in dBm, read values have added cable loss and attenuation.

Radiated Power:

The formula for calculating ERP/EIRP based on conduction power is as follows:

$\text{EIRP (dBm)} = \text{Conducted Power (dBm)} + \text{antenna gain (dBi)}$

$\text{ERP} = \text{EIRP} - 2.15\text{dB}$

TEST RESULTS

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	31.14	29.31	38.45	PASS
GSM850	190	31.12	29.29	38.45	PASS
GSM850	251	30.94	29.11	38.45	PASS

Band	Channel	Slot	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
GPRS850	128	1	31.14	29.31	38.45	PASS
GPRS850	128	2	31.17	29.34	38.45	PASS
GPRS850	128	3	30.07	28.24	38.45	PASS
GPRS850	128	4	28.32	26.49	38.45	PASS
GPRS850	190	1	31.12	29.29	38.45	PASS
GPRS850	190	2	31.15	29.32	38.45	PASS
GPRS850	190	3	30.08	28.25	38.45	PASS
GPRS850	190	4	28.35	26.52	38.45	PASS
GPRS850	251	1	30.93	29.10	38.45	PASS
GPRS850	251	2	30.95	29.12	38.45	PASS
GPRS850	251	3	29.91	28.08	38.45	PASS
GPRS850	251	4	28.18	26.35	38.45	PASS

Band	Channel	Slot	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.76	24.93	38.45	PASS
EGPRS850	128	2	26.63	24.80	38.45	PASS
EGPRS850	128	3	24.37	22.54	38.45	PASS
EGPRS850	128	4	22.23	20.40	38.45	PASS
EGPRS850	190	1	26.87	25.04	38.45	PASS
EGPRS850	190	2	26.81	24.98	38.45	PASS
EGPRS850	190	3	24.41	22.58	38.45	PASS
EGPRS850	190	4	22.32	20.49	38.45	PASS
EGPRS850	251	1	26.71	24.88	38.45	PASS
EGPRS850	251	2	26.57	24.74	38.45	PASS
EGPRS850	251	3	24.17	22.34	38.45	PASS
EGPRS850	251	4	22.12	20.29	38.45	PASS

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	28.14	30.49	33.00	PASS
GSM1900	661	27.81	30.16	33.00	PASS
GSM1900	810	27.67	30.02	33.00	PASS

Band	Channel	Slot	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	28.17	30.52	33.00	PASS
GPRS1900	512	2	28.14	30.49	33.00	PASS
GPRS1900	512	3	26.70	29.05	33.00	PASS
GPRS1900	512	4	24.60	26.95	33.00	PASS
GPRS1900	661	1	27.83	30.18	33.00	PASS
GPRS1900	661	2	27.82	30.17	33.00	PASS
GPRS1900	661	3	26.40	28.75	33.00	PASS
GPRS1900	661	4	24.33	26.68	33.00	PASS
GPRS1900	810	1	27.67	30.02	33.00	PASS
GPRS1900	810	2	27.66	30.01	33.00	PASS
GPRS1900	810	3	26.23	28.58	33.00	PASS
GPRS1900	810	4	24.20	26.55	33.00	PASS

Band	Channel	Slot	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.38	27.73	33.00	PASS
EGPRS1900	512	2	25.22	27.57	33.00	PASS
EGPRS1900	512	3	22.83	25.18	33.00	PASS
EGPRS1900	512	4	20.46	22.81	33.00	PASS
EGPRS1900	661	1	24.96	27.31	33.00	PASS
EGPRS1900	661	2	24.88	27.23	33.00	PASS
EGPRS1900	661	3	22.54	24.89	33.00	PASS
EGPRS1900	661	4	20.26	22.61	33.00	PASS
EGPRS1900	810	1	25.08	27.43	33.00	PASS
EGPRS1900	810	2	25.01	27.36	33.00	PASS
EGPRS1900	810	3	22.49	24.84	33.00	PASS
EGPRS1900	810	4	20.14	22.49	33.00	PASS

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band2	9262	24.19	26.54	33.01	PASS
Band2	9400	21.67	24.02	33.01	PASS
Band2	9538	21.75	24.10	33.01	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band2	9262	1	21.57	23.92	33.01	PASS
Band2	9262	2	21.17	23.52	33.01	PASS
Band2	9262	3	20.68	23.03	33.01	PASS
Band2	9262	4	20.72	23.07	33.01	PASS
Band2	9400	1	21.60	23.95	33.01	PASS
Band2	9400	2	21.16	23.51	33.01	PASS
Band2	9400	3	20.69	23.04	33.01	PASS
Band2	9400	4	20.72	23.07	33.01	PASS
Band2	9538	1	21.66	24.01	33.01	PASS
Band2	9538	2	21.12	23.47	33.01	PASS
Band2	9538	3	20.66	23.01	33.01	PASS
Band2	9538	4	20.68	23.03	33.01	PASS

HSUPA

Band	Channel	SubTest	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band2	9262	1	20.77	23.12	33.01	PASS
Band2	9262	2	19.30	21.65	33.01	PASS
Band2	9262	3	19.88	22.23	33.01	PASS
Band2	9262	4	19.44	21.79	33.01	PASS
Band2	9262	5	21.65	24.00	33.01	PASS
Band2	9400	1	20.78	23.13	33.01	PASS
Band2	9400	2	19.27	21.62	33.01	PASS
Band2	9400	3	19.94	22.29	33.01	PASS
Band2	9400	4	19.72	22.07	33.01	PASS
Band2	9400	5	21.62	23.97	33.01	PASS
Band2	9538	1	20.60	22.95	33.01	PASS
Band2	9538	2	19.60	21.95	33.01	PASS
Band2	9538	3	19.89	22.24	33.01	PASS
Band2	9538	4	19.64	21.99	33.01	PASS
Band2	9538	5	21.66	24.01	33.01	PASS

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band5	4132	22.15	20.32	38.45	PASS
Band5	4182	22.50	20.67	38.45	PASS
Band5	4233	21.59	19.76	38.45	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band5	4132	1	21.99	20.16	38.45	PASS
Band5	4132	2	21.61	19.78	38.45	PASS
Band5	4132	3	21.15	19.32	38.45	PASS
Band5	4132	4	21.14	19.31	38.45	PASS
Band5	4182	1	22.31	20.48	38.45	PASS
Band5	4182	2	21.92	20.09	38.45	PASS
Band5	4182	3	21.53	19.70	38.45	PASS
Band5	4182	4	21.49	19.66	38.45	PASS
Band5	4233	1	21.35	19.52	38.45	PASS
Band5	4233	2	20.97	19.14	38.45	PASS
Band5	4233	3	20.53	18.70	38.45	PASS
Band5	4233	4	20.55	18.72	38.45	PASS

HSUPA

Band	Channel	SubTest	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band5	4132	1	21.06	19.23	38.45	PASS
Band5	4132	2	19.59	17.76	38.45	PASS
Band5	4132	3	20.30	18.47	38.45	PASS
Band5	4132	4	19.73	17.90	38.45	PASS
Band5	4132	5	22.04	20.21	38.45	PASS
Band5	4182	1	21.35	19.52	38.45	PASS
Band5	4182	2	20.38	18.55	38.45	PASS
Band5	4182	3	20.67	18.84	38.45	PASS
Band5	4182	4	20.45	18.62	38.45	PASS
Band5	4182	5	22.32	20.49	38.45	PASS
Band5	4233	1	20.34	18.51	38.45	PASS
Band5	4233	2	19.50	17.67	38.45	PASS
Band5	4233	3	19.74	17.91	38.45	PASS
Band5	4233	4	19.55	17.72	38.45	PASS
Band5	4233	5	21.38	19.55	38.45	PASS

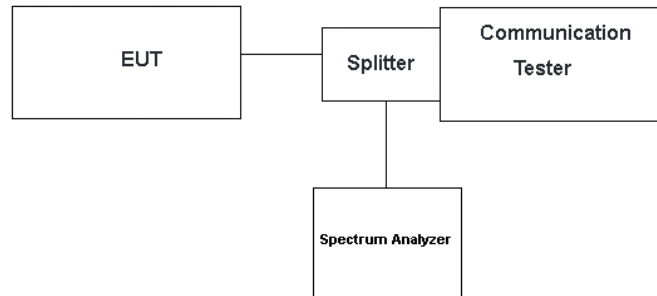
3.2. Peak-to-Average Ratio

LIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

TEST CONFIGURATION

- For Peak-to-Average Ratio



TEST PROCEDURE

- For Peak-to-Average Ratio
 1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
 2. The EUT was connected to spectrum and communication tester via a splitter
 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyser.
 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 1. Record the deviation as Peak to Average Ratio.

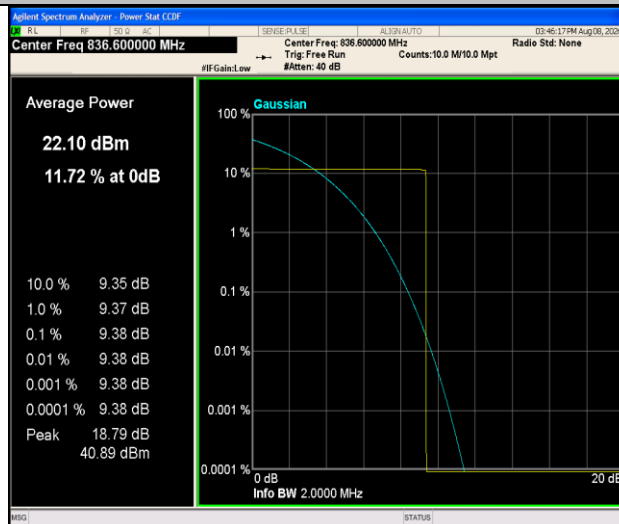
TEST RESULTS

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.61	13	PASS
GSM850	190	9.38	13	PASS
GSM850	251	9.66	13	PASS
GSM1900	512	9.32	13	PASS
GSM1900	661	9.32	13	PASS
GSM1900	810	9.54	13	PASS

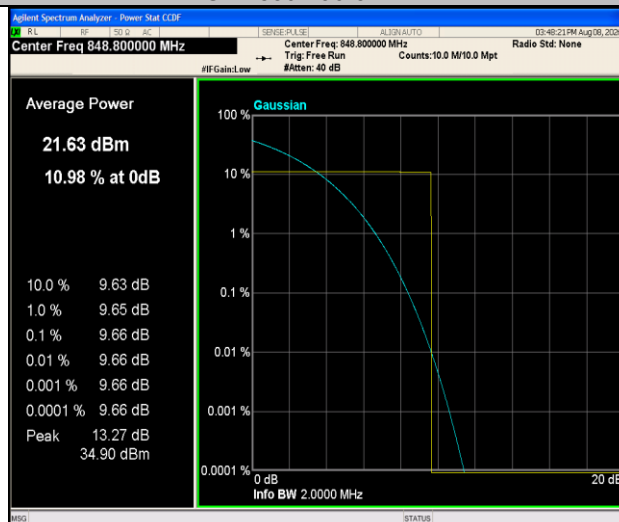
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.96	13	PASS
Band2	9400	3	13	PASS
Band2	9538	2.9	13	PASS
Band5	4132	2.96	13	PASS
Band5	4182	2.96	13	PASS
Band5	4233	3.05	13	PASS



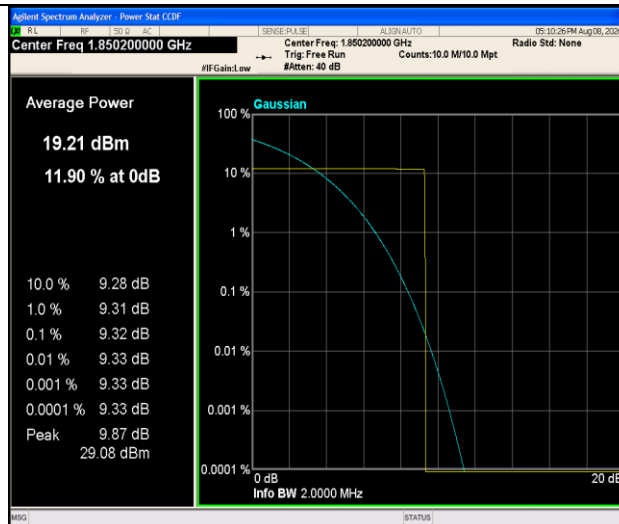
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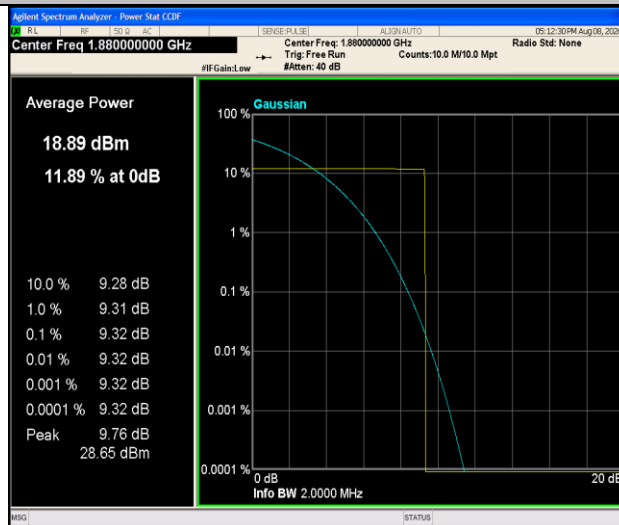
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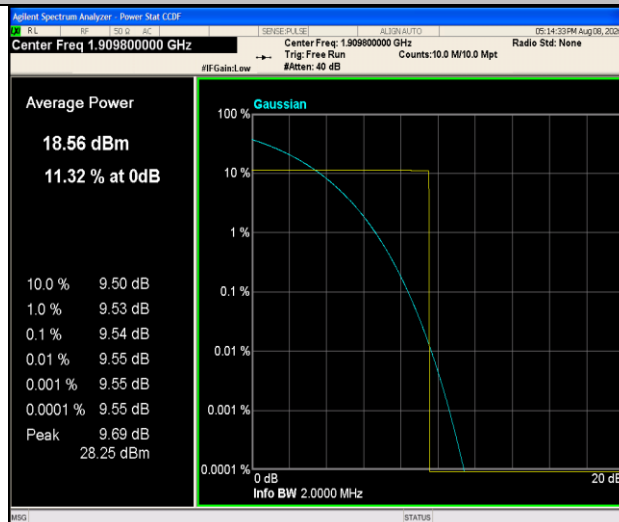
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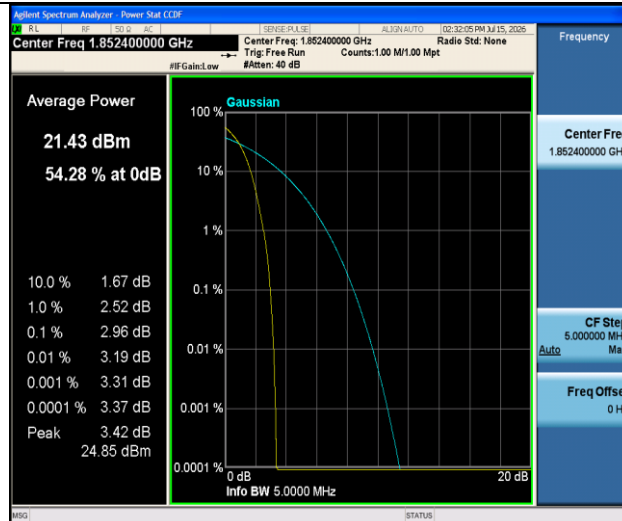
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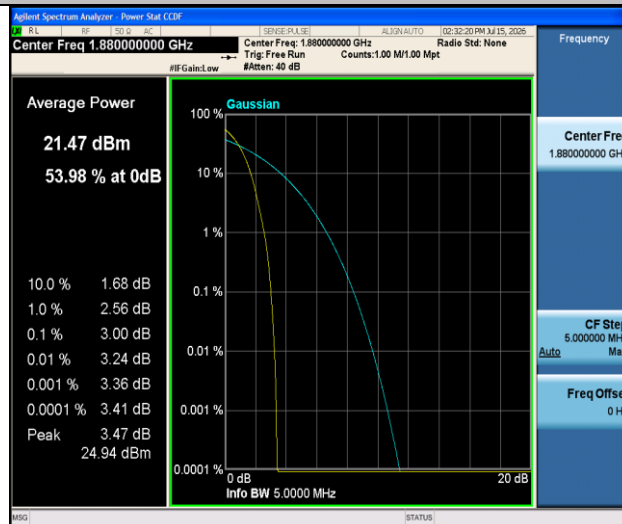
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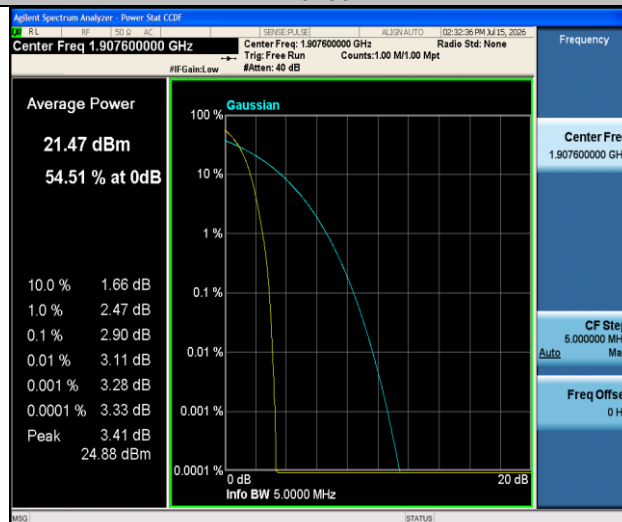
GSM1900-810-0-PASS



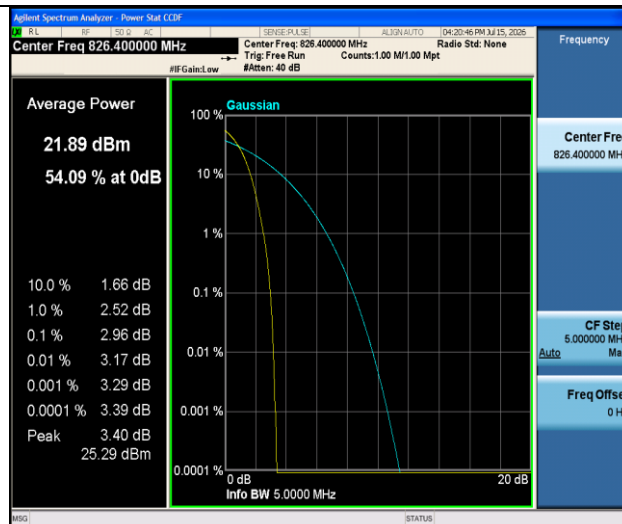
Band2-9262-PASS



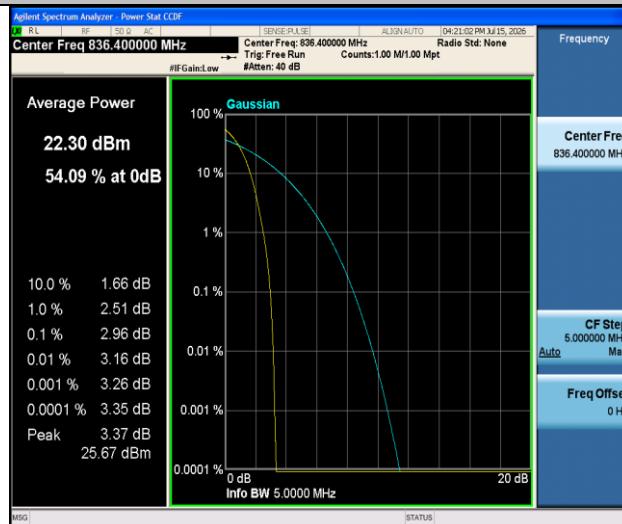
Band2-9400-PASS



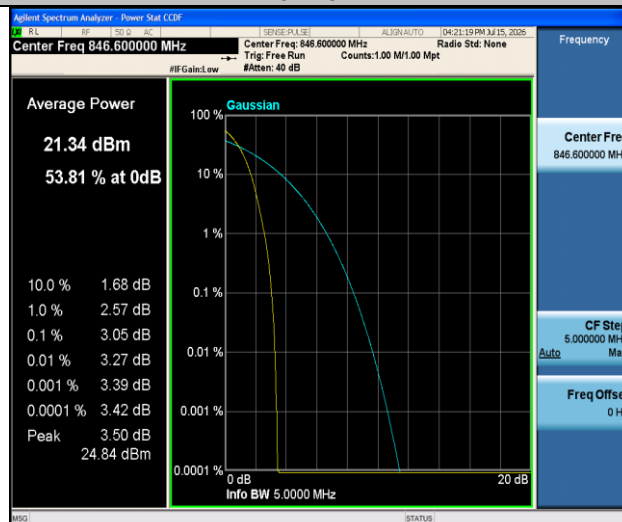
Band2-9538-PASS



Band5-4132-PASS



Band5-4182-PASS



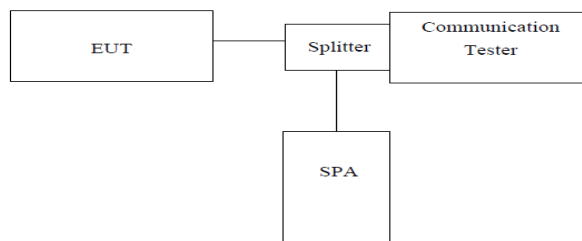
Band5-4233-PASS

3.3. Occupy Bandwidth

LIMIT

For reporting purposes only.

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

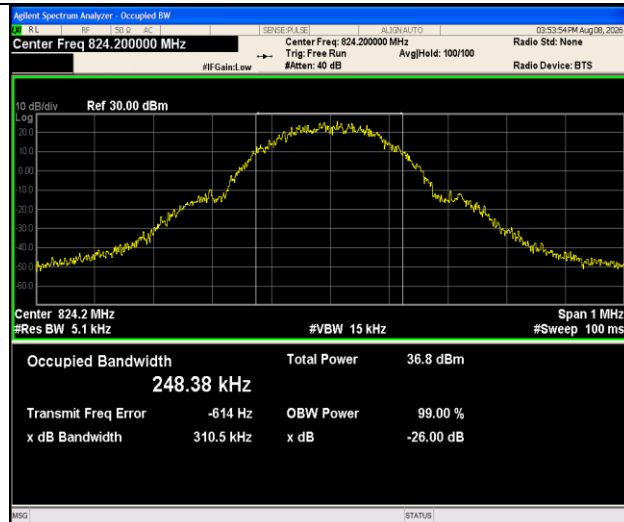
TEST PROCEDURE

1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
2. RBW was set to about 1% of emission BW, VBW $\geq$ 3 times RBW.
3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

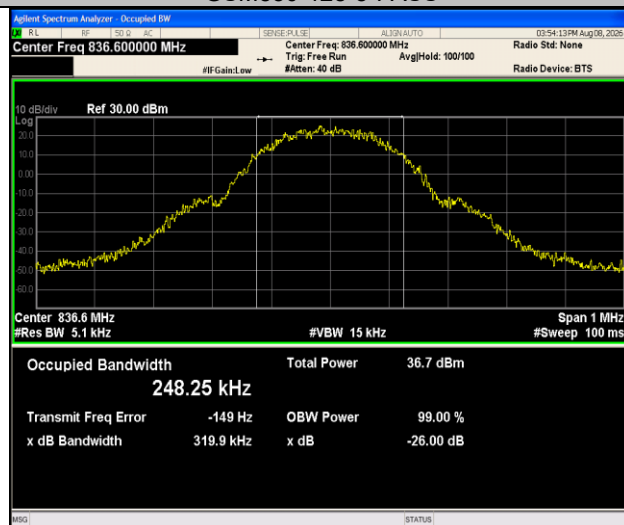
TEST RESULTS

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24838	0.3105	---	PASS
GSM850	190	0.24825	0.3199	---	PASS
GSM850	251	0.24491	0.3139	---	PASS
GPRS850	128	0.24291	0.3074	---	PASS
GPRS850	190	0.24452	0.3149	---	PASS
GPRS850	251	0.24409	0.3130	---	PASS
EGPRS850	128	0.23963	0.3213	---	PASS
EGPRS850	190	0.24210	0.3098	---	PASS
EGPRS850	251	0.23848	0.3059	---	PASS
GSM1900	512	0.24359	0.3130	---	PASS
GSM1900	661	0.24498	0.3116	---	PASS
GSM1900	810	0.24753	0.3089	---	PASS
GPRS1900	512	0.24226	0.3184	---	PASS
GPRS1900	661	0.24589	0.3101	---	PASS
GPRS1900	810	0.24395	0.3155	---	PASS
EGPRS1900	512	0.24700	0.3142	---	PASS
EGPRS1900	661	0.24914	0.3136	---	PASS
EGPRS1900	810	0.24874	0.3111	---	PASS

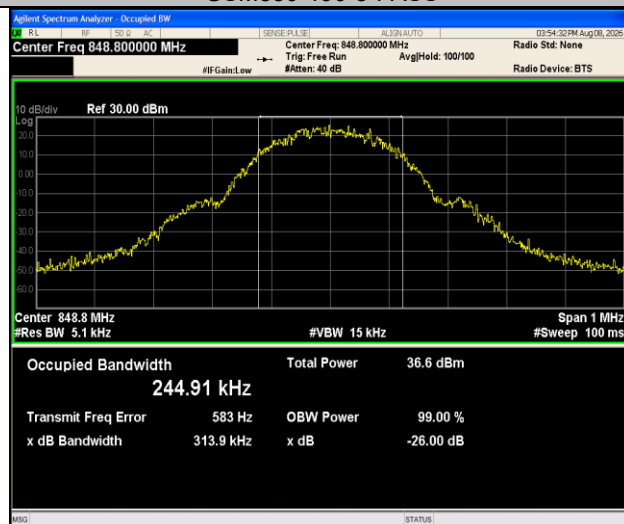
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1411	4.697	---	PASS
Band2	9400	4.1516	4.686	---	PASS
Band2	9538	4.1559	4.702	---	PASS
Band5	4132	4.1503	4.698	---	PASS
Band5	4182	4.1486	4.706	---	PASS
Band5	4233	4.1458	4.692	---	PASS



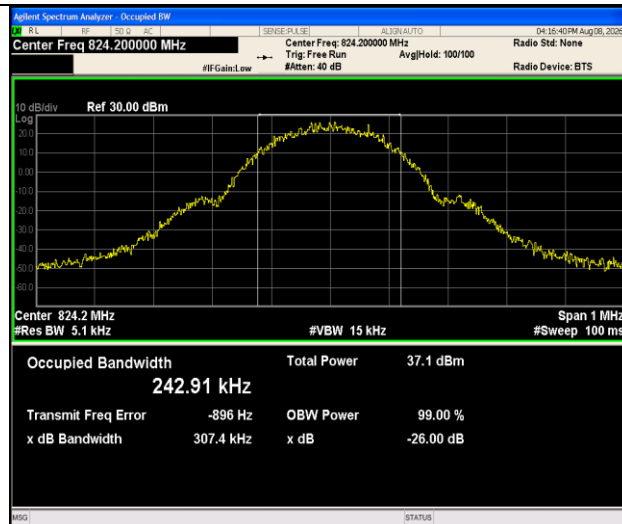
GSM850-128-5-PASS



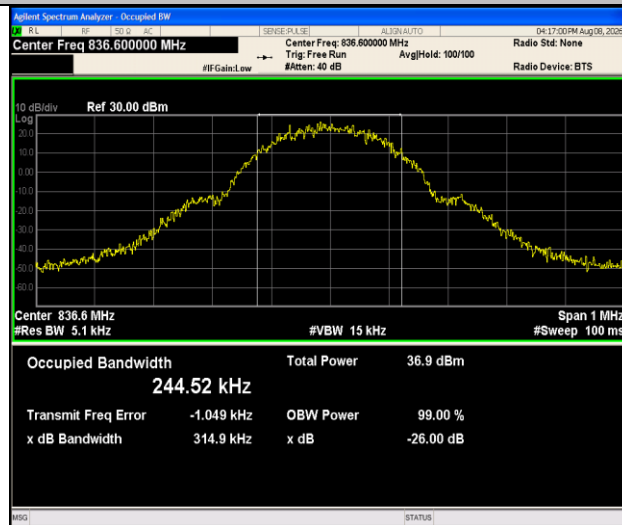
GSM850-190-5-PASS



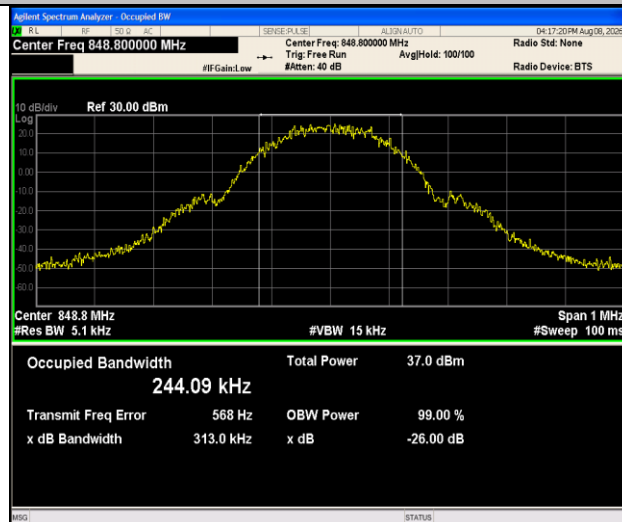
GSM850-251-5-PASS



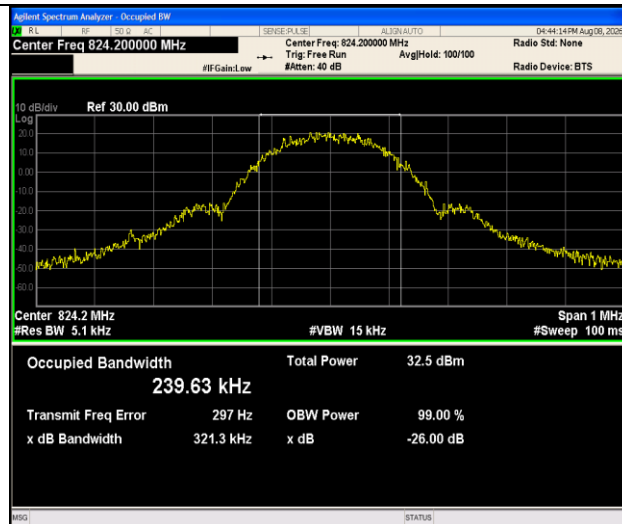
GPRS850-128-5-PASS



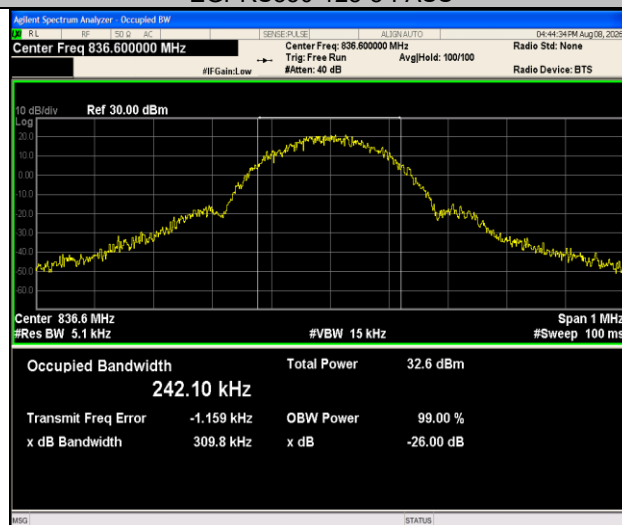
GPRS850-190-5-PASS



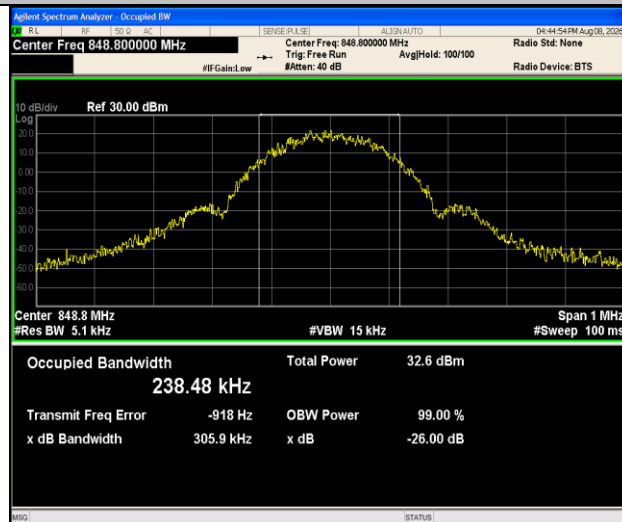
GPRS850-251-5-PASS



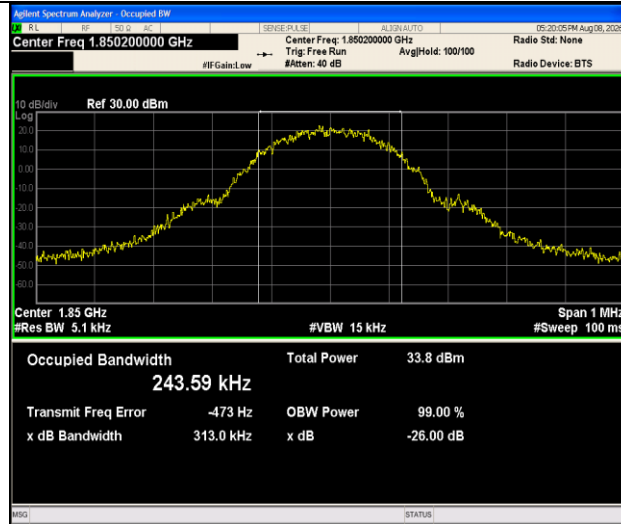
EGPRS850-128-8-PASS



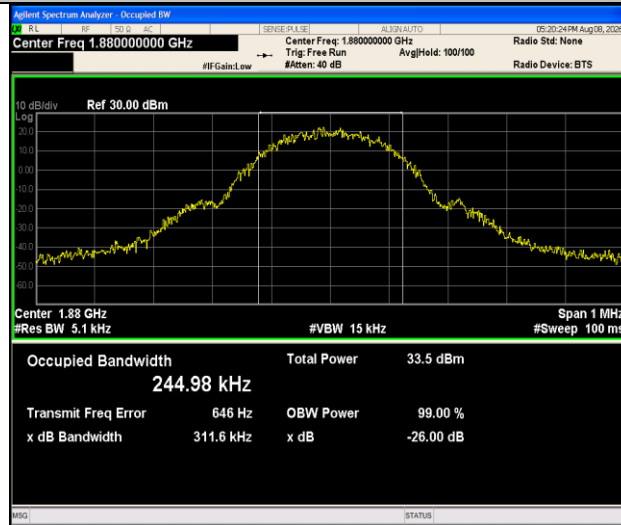
EGPRS850-190-8-PASS



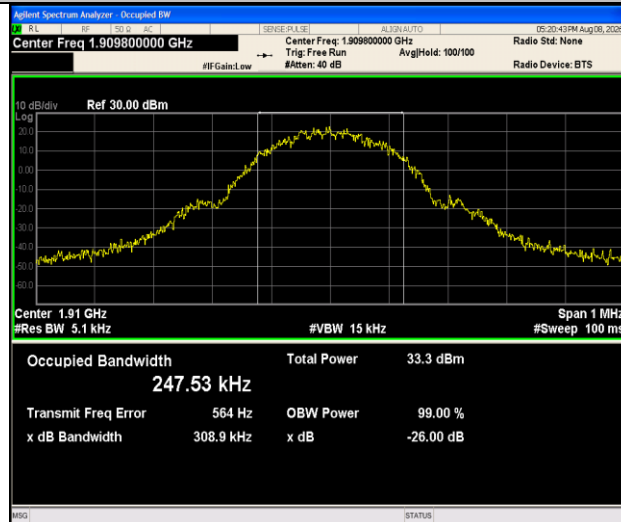
EGPRS850-251-8-PASS



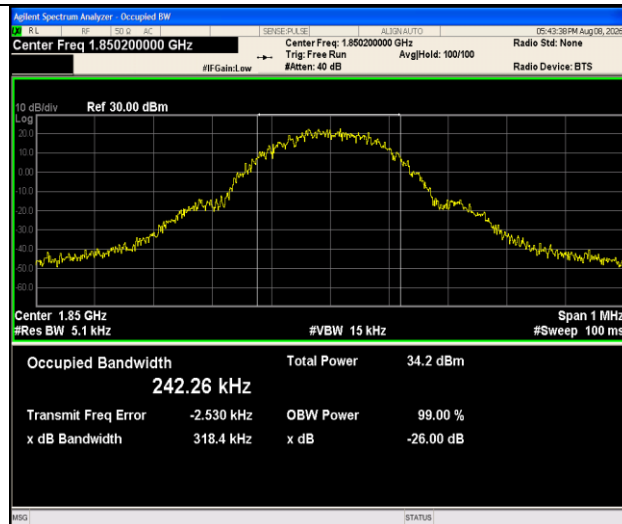
GSM1900-512-0-PASS



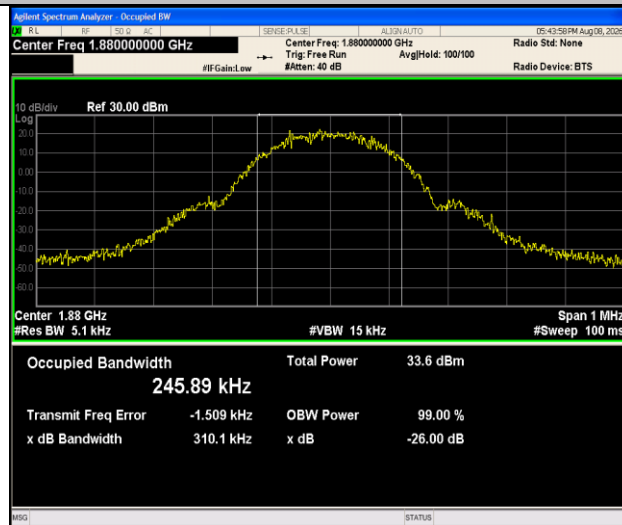
GSM1900-661-0-PASS



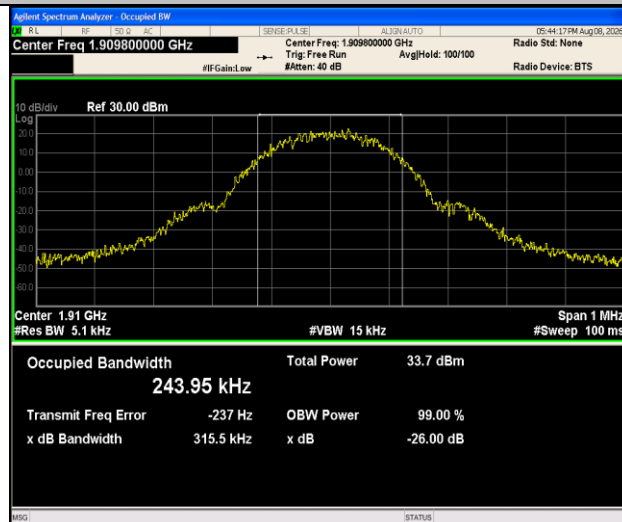
GSM1900-810-0-PASS



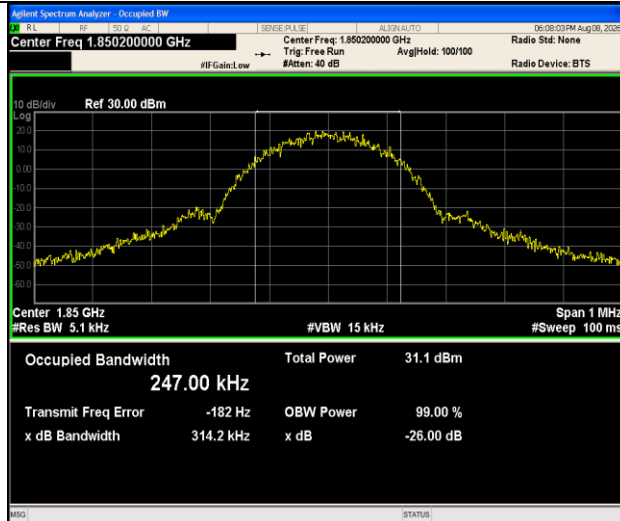
GPRS1900-512-0-PASS



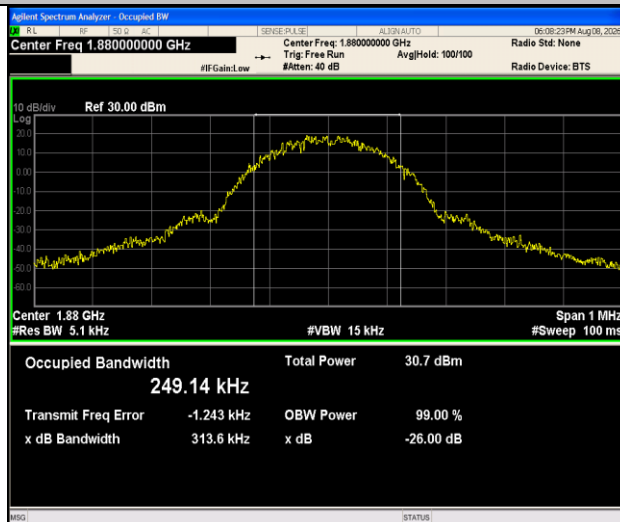
GPRS1900-661-0-PASS



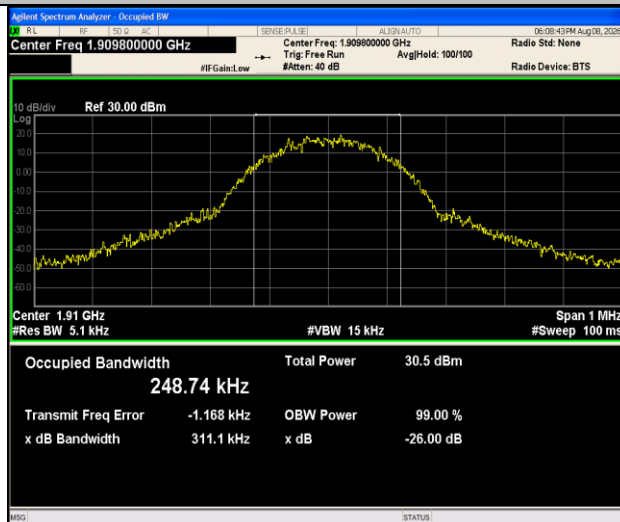
GPRS1900-810-0-PASS



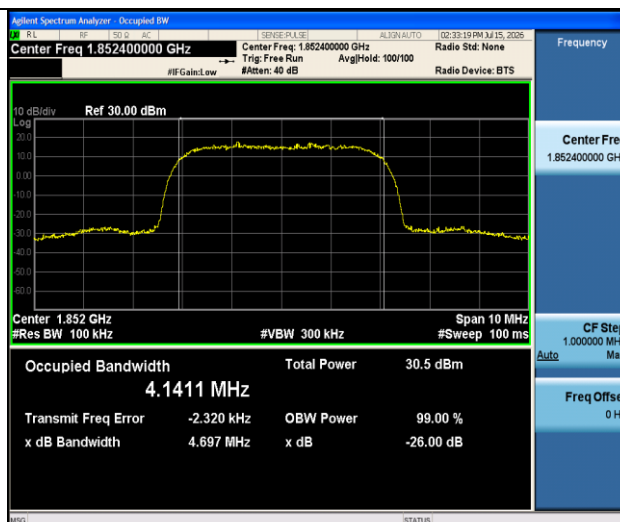
EGPRS1900-512-2-PASS



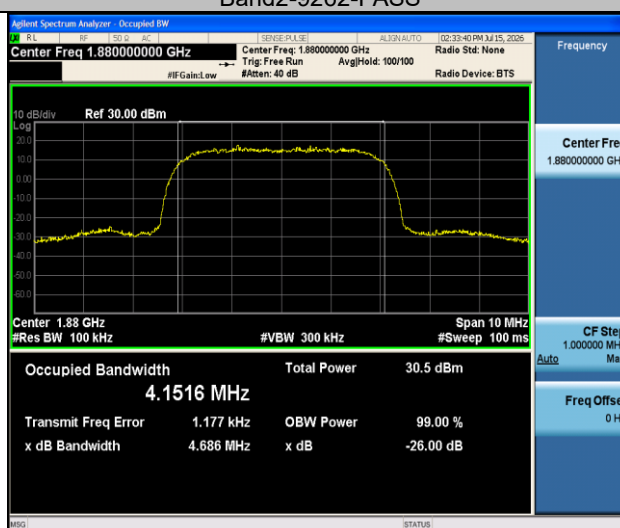
EGPRS1900-661-2-PASS



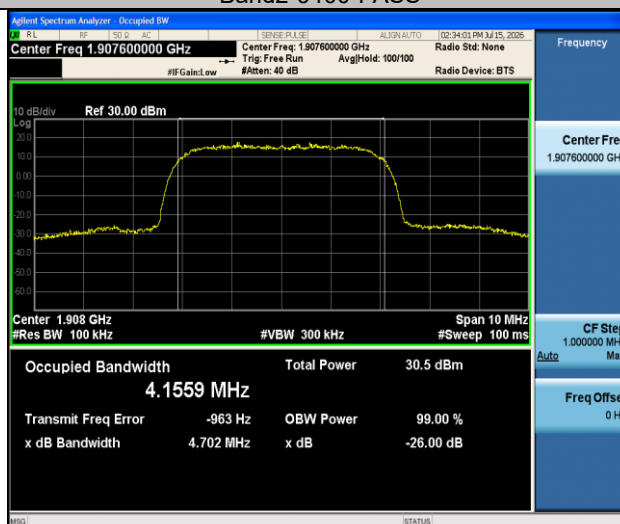
EGPRS1900-810-2-PASS



Band2-9262-PASS



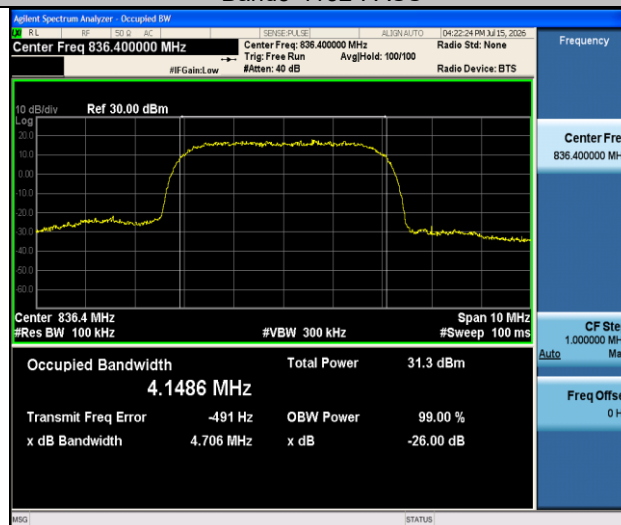
Band2-9400-PASS



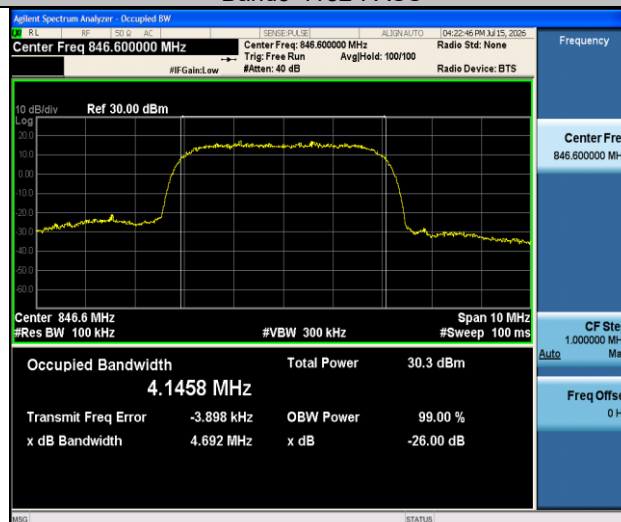
Band2-9538-PASS



Band5-4132-PASS



Band5-4182-PASS



Band5-4233-PASS

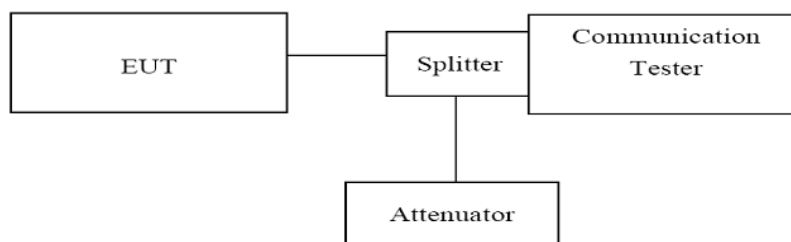
3.4. Out Of Band Emissions

LIMIT

FCC: §22.917, §24.238, §27.53 (h)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

TEST CONFIGURATION



TEST PROCEDURE

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. Sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

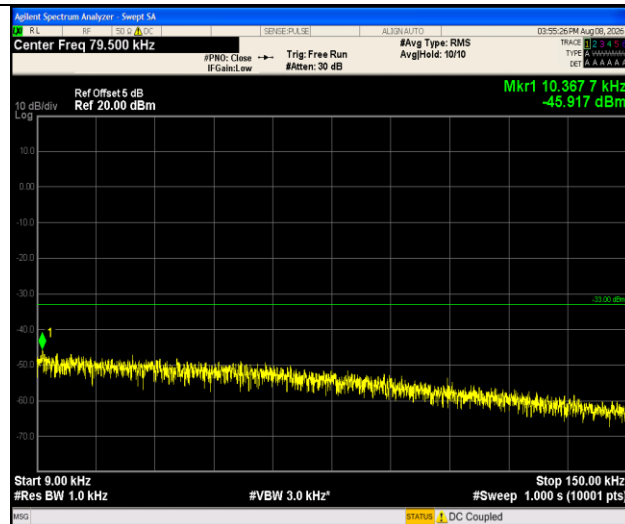
TEST RESULTS

Remark: we test all modulation type and record worst case.

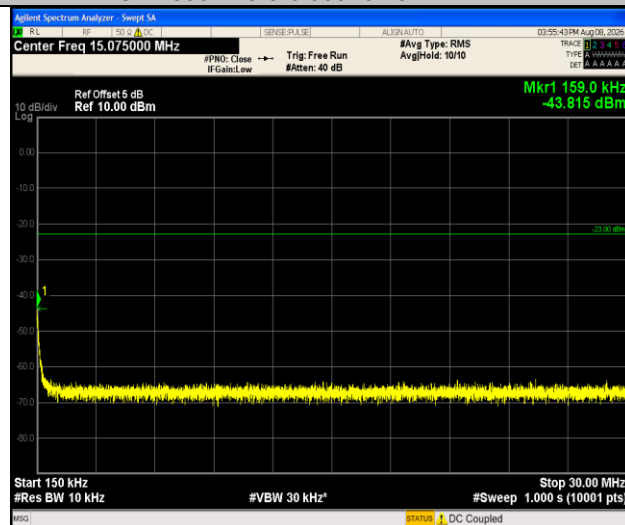
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-45.92	-33	PASS
GSM850	128	0.15~30MHz	0.16	-43.82	-23	PASS
GSM850	128	30~1000MHz	944.55	-47.48	-13	PASS
GSM850	128	1000~10000MHz	7418.5	-36.35	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-45.64	-33	PASS
GSM850	190	0.15~30MHz	0.15	-42.42	-23	PASS
GSM850	190	30~1000MHz	976.62	-47.35	-13	PASS
GSM850	190	1000~10000MHz	4183	-31.72	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-45.7	-33	PASS
GSM850	251	0.15~30MHz	0.16	-42.87	-23	PASS
GSM850	251	30~1000MHz	954.93	-46.97	-13	PASS
GSM850	251	1000~10000MHz	2546.5	-18.72	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-45.94	-33	PASS
GPRS850	128	0.15~30MHz	0.17	-42.41	-23	PASS
GPRS850	128	30~1000MHz	945.94	-47.43	-13	PASS
GPRS850	128	1000~10000MHz	4120.3	-19.85	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-45.38	-33	PASS
GPRS850	190	0.15~30MHz	0.15	-41.74	-23	PASS
GPRS850	190	30~1000MHz	952.15	-47.36	-13	PASS
GPRS850	190	1000~10000MHz	2509.3	-32.59	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-44.87	-33	PASS
GPRS850	251	0.15~30MHz	0.15	-42.88	-23	PASS
GPRS850	251	30~1000MHz	997.64	-47.58	-13	PASS
GPRS850	251	1000~10000MHz	2546.2	-21.71	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-45.8	-33	PASS
EGPRS850	128	0.15~30MHz	0.15	-43.28	-23	PASS
EGPRS850	128	30~1000MHz	959.1	-47.58	-13	PASS
EGPRS850	128	1000~10000MHz	2472.1	-20.27	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-46.86	-33	PASS
EGPRS850	190	0.15~30MHz	0.17	-44.13	-23	PASS

EGPRS850	190	30~1000MHz	946.84	-47.55	-13	PASS
EGPRS850	190	1000~10000MHz	4182.7	-46.36	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-45.59	-33	PASS
EGPRS850	251	0.15~30MHz	0.16	-42.7	-23	PASS
EGPRS850	251	30~1000MHz	957.97	-47.72	-13	PASS
EGPRS850	251	1000~10000MHz	4243.6	-41.46	-13	PASS
GSM1900	512	0.009~0.15MHz	0.01	-46.53	-43	PASS
GSM1900	512	0.15~30MHz	0.16	-42.01	-33	PASS
GSM1900	512	30~1000MHz	923.08	-44.64	-13	PASS
GSM1900	512	1000~3000MHz	2689.67	-35.72	-13	PASS
GSM1900	512	3000~18000MHz	5551	-34.91	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-45.82	-43	PASS
GSM1900	661	0.15~30MHz	0.15	-41.99	-33	PASS
GSM1900	661	30~1000MHz	915.35	-44.72	-13	PASS
GSM1900	661	1000~3000MHz	2688.93	-35.63	-13	PASS
GSM1900	661	3000~18000MHz	5640	-29.89	-13	PASS
GSM1900	810	0.009~0.15MHz	0.02	-46.29	-43	PASS
GSM1900	810	0.15~30MHz	0.15	-44.14	-33	PASS
GSM1900	810	30~1000MHz	923.82	-44.59	-13	PASS
GSM1900	810	1000~3000MHz	2678.13	-35.72	-13	PASS
GSM1900	810	3000~18000MHz	5729.5	-27.42	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-45.9	-43	PASS
GPRS1900	512	0.15~30MHz	0.15	-43.74	-33	PASS
GPRS1900	512	30~1000MHz	933.33	-44.71	-13	PASS
GPRS1900	512	1000~3000MHz	2664.27	-35.65	-13	PASS
GPRS1900	512	3000~18000MHz	5551	-32.11	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-45.25	-43	PASS
GPRS1900	661	0.15~30MHz	0.15	-43.65	-33	PASS
GPRS1900	661	30~1000MHz	918.91	-44.65	-13	PASS
GPRS1900	661	1000~3000MHz	2681.47	-35.68	-13	PASS
GPRS1900	661	3000~18000MHz	16761.5	-47.42	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-45.66	-43	PASS
GPRS1900	810	0.15~30MHz	0.15	-41.99	-33	PASS
GPRS1900	810	30~1000MHz	913.28	-44.61	-13	PASS
GPRS1900	810	1000~3000MHz	2674	-35.63	-13	PASS
GPRS1900	810	3000~18000MHz	5729.5	-30.06	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.01	-45.81	-43	PASS
EGPRS1900	512	0.15~30MHz	0.15	-42.89	-33	PASS
EGPRS1900	512	30~1000MHz	943.35	-44.59	-13	PASS
EGPRS1900	512	1000~3000MHz	2679.4	-35.68	-13	PASS
EGPRS1900	512	3000~18000MHz	16799.5	-47.35	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-45.22	-43	PASS
EGPRS1900	661	0.15~30MHz	0.15	-42.81	-33	PASS
EGPRS1900	661	30~1000MHz	903.29	-44.72	-13	PASS
EGPRS1900	661	1000~3000MHz	2671.93	-35.67	-13	PASS
EGPRS1900	661	3000~18000MHz	5639.5	-33.91	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-44.92	-43	PASS
EGPRS1900	810	0.15~30MHz	0.15	-43.79	-33	PASS
EGPRS1900	810	30~1000MHz	929.48	-44.6	-13	PASS
EGPRS1900	810	1000~3000MHz	2681.93	-35.74	-13	PASS
EGPRS1900	810	3000~18000MHz	16787.5	-47.43	-13	PASS

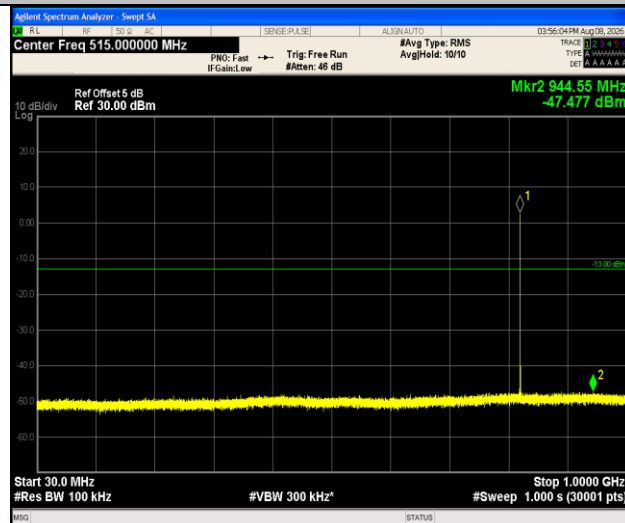
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-54.42	-43	PASS
Band2	9262	0.15~30MHz	0.15	-47.84	-33	PASS
Band2	9262	30~1000MHz	784.18	-49.15	-13	PASS
Band2	9262	1000~20000MHz	16843.15	-40.6	-13	PASS
Band2	9400	0.009~0.15MHz	0.03	-53.05	-43	PASS
Band2	9400	0.15~30MHz	0.15	-47.48	-33	PASS
Band2	9400	30~1000MHz	829.28	-49.09	-13	PASS
Band2	9400	1000~20000MHz	16842.68	-40.51	-13	PASS
Band2	9538	0.009~0.15MHz	0.02	-52.46	-43	PASS
Band2	9538	0.15~30MHz	0.15	-48.04	-33	PASS
Band2	9538	30~1000MHz	926.28	-49.04	-13	PASS
Band2	9538	1000~20000MHz	16771.43	-40.05	-13	PASS
Band5	4132	0.009~0.15MHz	0.03	-39.39	-33	PASS
Band5	4132	0.15~30MHz	0.15	-47.18	-23	PASS
Band5	4132	30~1000MHz	970.42	-57.95	-13	PASS
Band5	4132	1000~10000MHz	2705.5	-43.42	-13	PASS
Band5	4182	0.009~0.15MHz	0.02	-38.11	-33	PASS
Band5	4182	0.15~30MHz	0.15	-49.48	-23	PASS
Band5	4182	30~1000MHz	955.87	-57.98	-13	PASS
Band5	4182	1000~10000MHz	2508.4	-40.86	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-39.07	-33	PASS
Band5	4233	0.15~30MHz	0.15	-47.75	-23	PASS
Band5	4233	30~1000MHz	968.48	-58.41	-13	PASS
Band5	4233	1000~10000MHz	2543.5	-42.09	-13	PASS



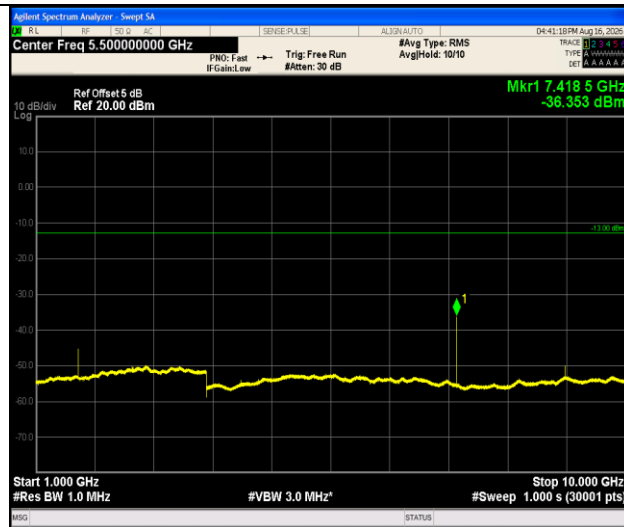
GSM850-128-5-0.009~0.15MHz-PASS



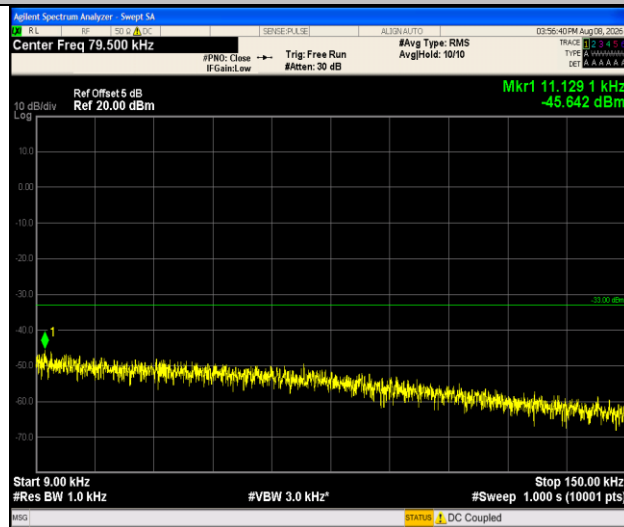
GSM850-128-5-0.15~30MHz-PASS



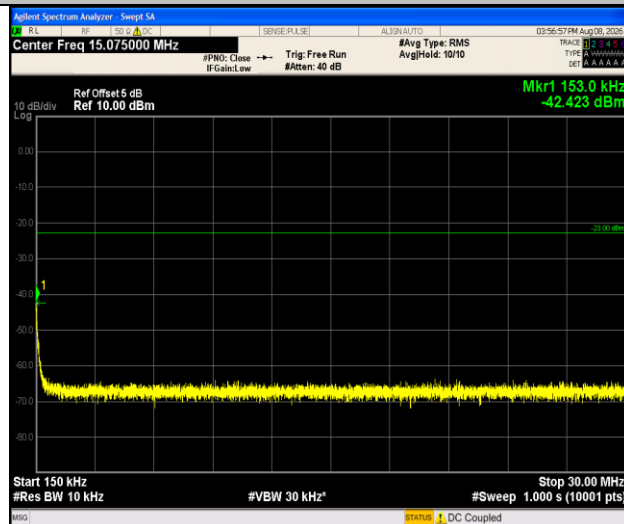
GSM850-128-5-30~1000MHz-PASS



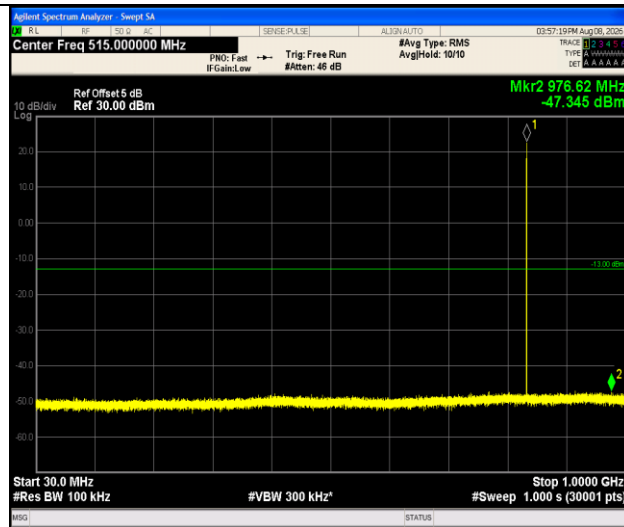
GSM850-128-5-1000~10000MHz-PASS



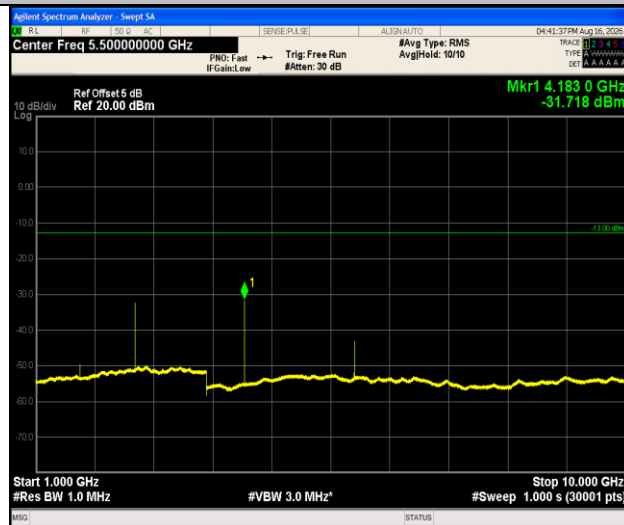
GSM850-190-5-0.009~0.15MHz-PASS



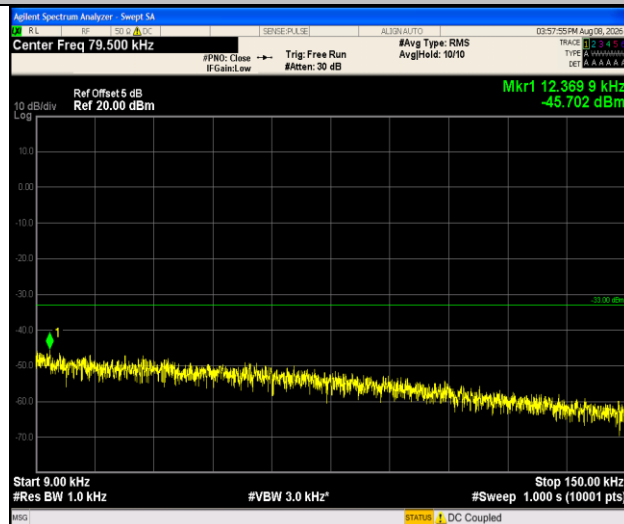
GSM850-190-5-0.15~30MHz-PASS



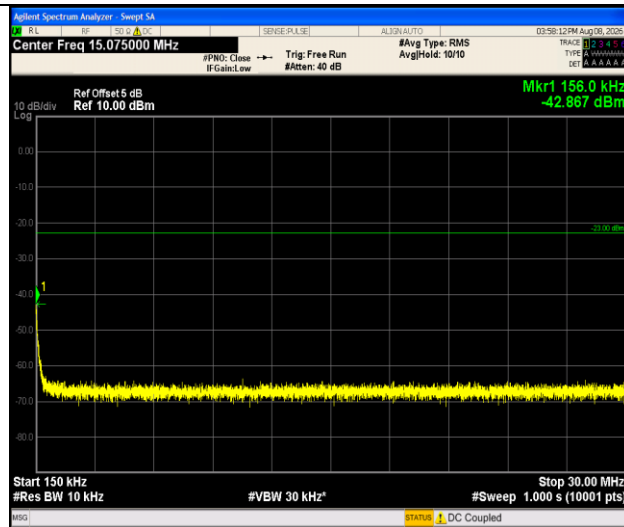
GSM850-190-5-30~1000MHz-PASS



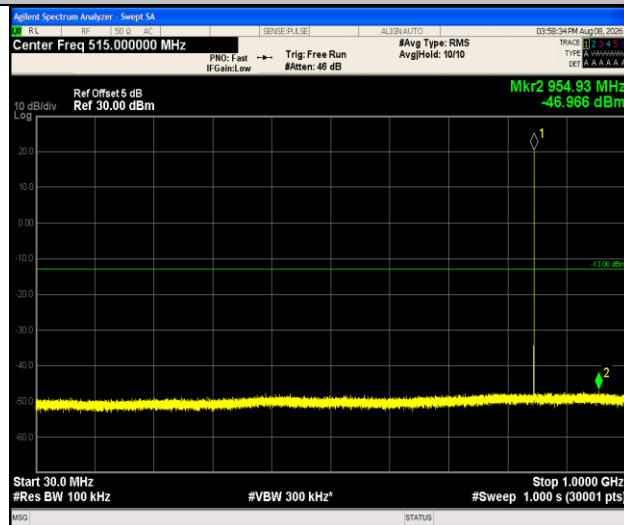
GSM850-190-5-1000~10000MHz-PASS



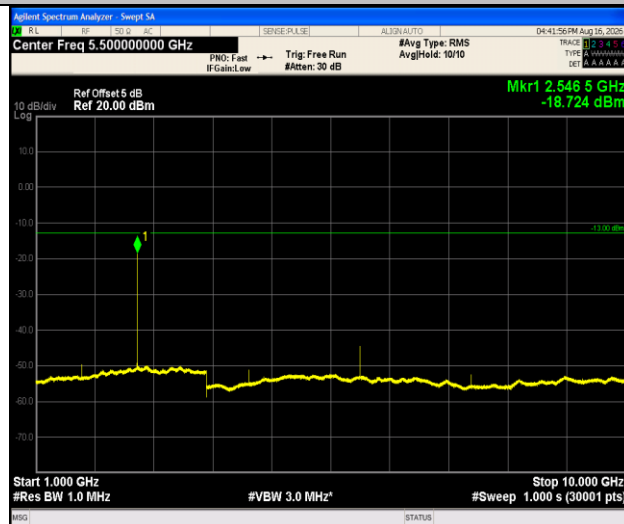
GSM850-251-5-0.009~0.15MHz-PASS



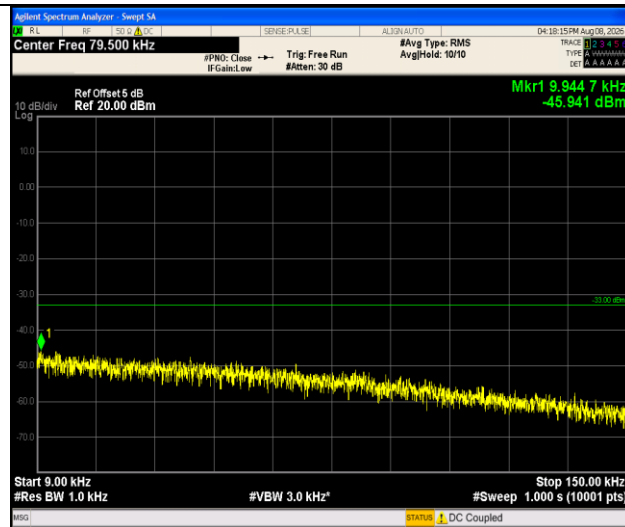
GSM850-251-5-0.15~30MHz-PASS



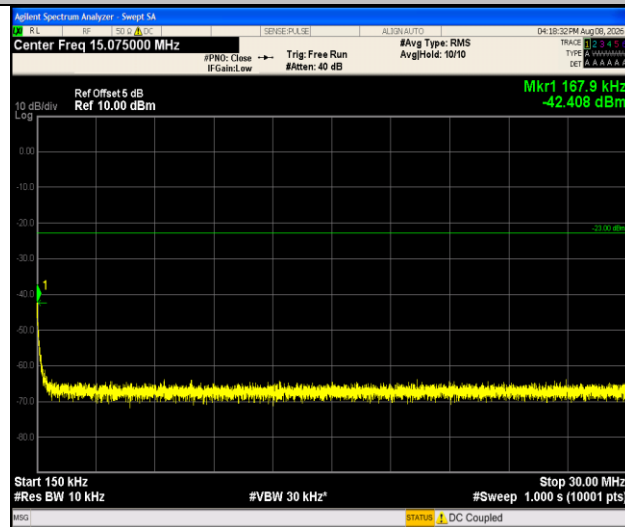
GSM850-251-5-30~1000MHz-PASS



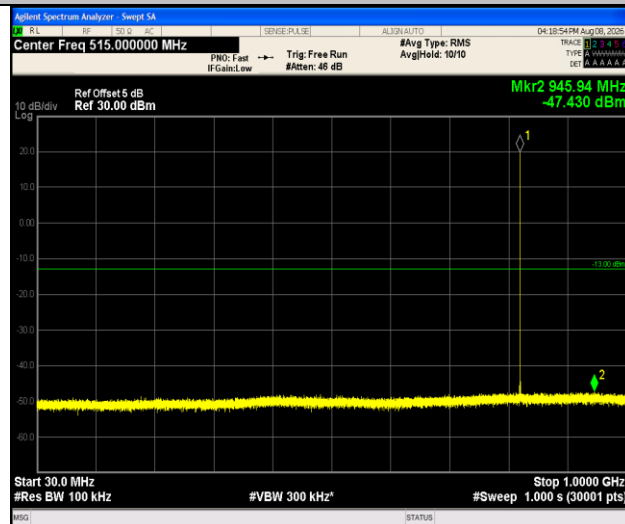
GSM850-251-5-1000~10000MHz-PASS



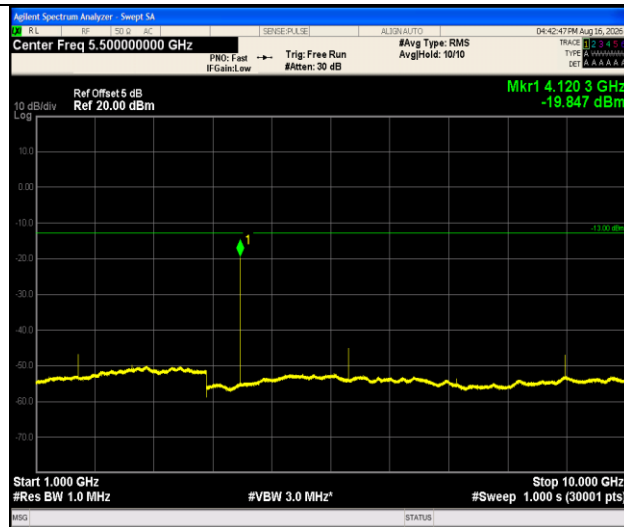
GPRS850-128-5-0.009~0.15MHz-PASS



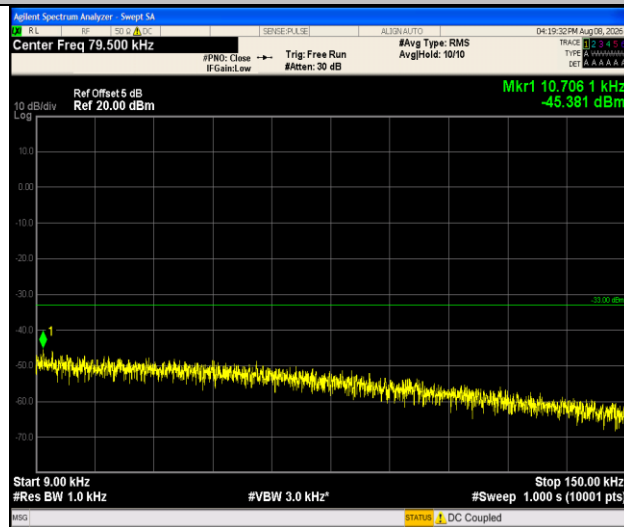
GPRS850-128-5-0.15~30MHz-PASS



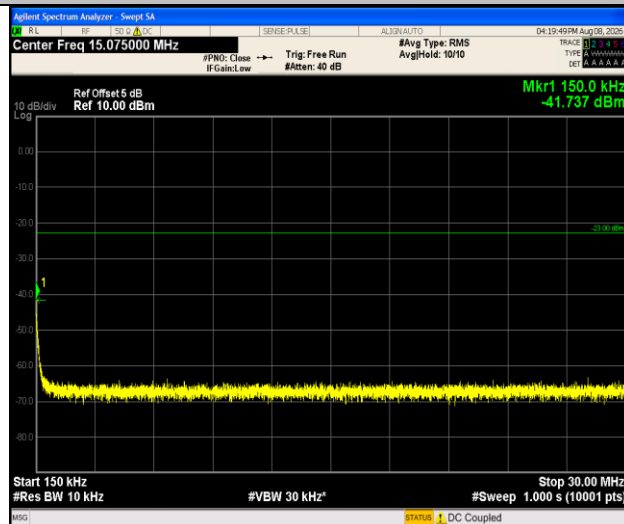
GPRS850-128-5-30~1000MHz-PASS



GPRS850-128-5-1000~10000MHz-PASS



GPRS850-190-5-0.009~0.15MHz-PASS



GPRS850-190-5-0.15~30MHz-PASS