RF TEST REPORT

Product Name: 4G Tablet

Model Name: OB-P08, TANK Pad E

FCC ID: 2BAVY-OBP08

Issued For : Shenzhen OBLUE Communication Technology Co.,Ltd.

Room 702, Hepingdayou industrial and trade industrial park, No. 41, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen City,China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT25A017RF16
Sample Received Date:	Jan. 03, 2025
Date of Test:	Jan. 03, 2025 – Jan. 22, 2025
Date of Issue:	Jan. 22, 2025

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TEST REPORT CERTIFICATION

Applicant:	Shenzhen OBLUE Communication Technology Co.,Ltd.
Address:	Room 702, Hepingdayou industrial and trade industrial park, No. 41, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen City,China
Manufacturer:	Shenzhen OBLUE Communication Technology Co.,Ltd.
Address:	Room 702, Hepingdayou industrial and trade industrial park, No. 41, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen City,China
Product Name:	4G Tablet
Trademark:	8849, Unihertz, iHunt
Model Name:	OB-P08, TANK Pad E
Sample Status:	Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 22H and 24E, 27 KDB 971168 D01 v03r01, ANSI C63.26(2015)	PASS

Prepared by:

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Technical Director

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Revision History

Rev.	Issue Date	Contents
00	Jan. 22, 2025	Initial Issue

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26-2015

FCC Rules	Test Description	Test Limit	Test Result	Reference
2.1046	Conducted Output Power	Reporting Only	PASS	
22.913d 24.232d	Peak-to-Average Ratio	< 13 dB	PASS	
2.1046 22.913 24.232 27.50	Effective Radiated Power/Equivalent Isotropic Radiated Power	< 7 Watts max. ERP(Part 22) < 2 Watts max. EIRP(Part 24) <1 Watts max. EIRP(Part 27)	PASS	
2.1049 22.917 24.238 27.53	Occupied Bandwidth	Reporting Only	PASS	
2.1055 22.355 24.235 27.54	Frequency Stability	< 2.5 ppm (Part 22) Emission must remain in band (Part 24) Emission must remain in band (Part 27)	PASS	
2.1051 22.917 24.238 27.53	Spurious Emission at Antenna Terminals	< 43+10log10(P[Watts])	PASS	
2.1053 22.917 24.238 27.53	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	
2.1051 22.917 24.238 27.53	Band Edge	< 43+10log10(P[Watts])	PASS	

2 INTRODUCTION

2.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26. All measurement uncertainty values are shown with a coverage factor of k = 2 toindicate a 95% level of confidence. The measurement data shown herein meets or exceeds the UCISPRmeasurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly tospecified limits to determine compliance.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB

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

3. PRODUCT INFORMATION

Product Name:	4G Tablet
Trademark:	8849, Unihertz, iHunt
Model Name:	OB-P08
Series Model:	TANK Pad E
Model Difference:	Market model differences only.
Tx Frequency:	GSM/GPRS: 850: 824 MHz ~ 849MHz 1900: 1850 MHz ~ 1910MHz WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz CDMA&EVDO: BC0: 824 MHz~ 848 MHz BC1: 1850 MHz~ 1910 MHz
Rx Frequency:	GSM/GPRS: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990MHz WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz Band IV: 2110 MHz ~ 2155 MHz CDMA&EVDO: BC0: 869 MHz~ 894 MHz BC1: 1930 MHz~ 1990 MHz
Modulation Characteristics:	GMSK for GSM/GPRS WCDMA: QPSK; HSDPA: QPSK/16QAM; HSUPA: BPSK CDMA&EVDO: QPSK/8PSK
SIM Card:	Only support single SIM Card.
Antenna:	PIFA
Antenna gain:	GSM 850: -2.1dBi GSM 1900: -2.8dBi WCDMA B2: -2.8dBi WCDMA B4: -3.3dBi WCDMA B5: -2.1dBi BC0: -2.1dBi, BC1: -2.8dBi
Adapter:	Input: 100-240V, 50/60Hz, 1.5A Output: 5V, 3A 15W OR 9V, 3A 27W OR 12V, 3A 36W OR 15V, 3A 45W OR 20V, 3.25A 65W OR 11V, 6A 66W MAX
Battery:	Capacity: 10550mAh Rated Voltage: 7.82V
GPRS Class:	Multi-Class12
Extreme Vol. Limits:	7.038V to 8.602V (Nominal 7.82V)
Extreme Temp. Tolerance:	0℃ to +40℃
Hardware version:	G92_V1.2
Software version:	OB-P08_20250102

*** Note: The High Voltage 8.602V and Low Voltage 7.038V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.*

4 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850/WCDMA Band V/CDMA BC0/EVDO BC0.

2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II/ WCDMA Band IV/CDMA BC1/EVDO BC1.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst-case configuration below:

	TEST MODES	
BAND	RADIATED TCS	CONDUCTED TCS
GSM 850	GSM LINK GPRS CLASS 12 LINK	GSM LINK GPRS CLASS 12 LINK
GSM 1900	GSM LINK GPRS CLASS 12 LINK	GSM LINK GPRS CLASS 12 LINK
WCDMA BAND V	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
WCDMA BAND IV	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
WCDMA BAND II	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
CDMA BC0/BC1	QPSK	QPSK
EVDO BC0/BC1	8PSK	8PSK

5 MEASUREMENT INSTRUMENTS

Radiated Test equipment					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Until**
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12
Spectrum Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.12.12	2025.12.11
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2025.06.07
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2024.03.09	2025.03.08
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08
Pre-amplifier(18-40G)	com-mw	LNPA_18-40-01	18050003	2024.03.09	2025.03.08
Wireless Communications Test Set	R&S	CMW 500	137737	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Until**
Signal Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Signal Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08
RF Automatic Test system	MW	MW100-RFCB	MW220322LG-033	2024.03.09	2025.03.08
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2024.03.09	2025.03.08
Attenuator	eastsheep	90db	N.A	2024.03.09	2025.03.08
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Digital multimeter	MASTECH	MS8261	MBGBC83053	2024.03.09	2025.03.08
Testing Software	MTS8310_V2.0.0.0_MW				

Equipment with a calibration date of “NCR” shown in this list was not used to make direct calibrated measurements.

6 TEST ITEMS

6.1 CONDUCTED OUTPUT POWER

TEST OVERVIEW

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

TEST PROCEDURES

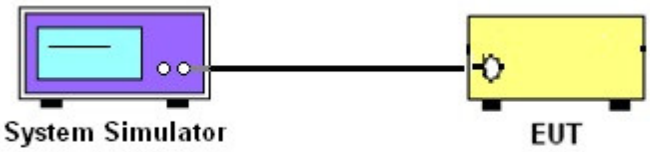
1. The transmitter output port was connected to the system simulator.

2. Set eut at maximum power through the system simulator.

3. Select lowest, middle, and highest channels for each band and different modulation.

4. Measure and record the power level from the system simulator.

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.2 PEAK TO AVERAGE RATIO

TEST OVERVIEW

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

TEST PROCEDURES

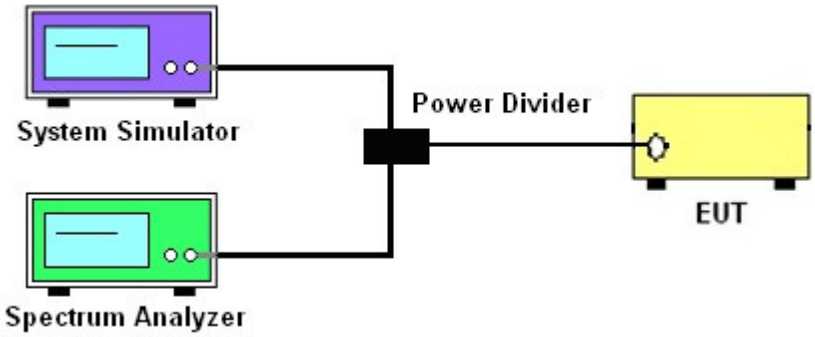
1. The testing follows FCC KDB 971168 v03r01 section.

2. The eut was connected to the peak and av system simulator& spectrum analyzer.

3. Select lowest, middle, and highest channels for each band and different modulation.

4. Set the test probe and measure average power of the spectrum analysis,

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.3 TRANSMITTER RADIATED POWER (EIRP/ERP)

TEST OVERVIEW

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26 2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

TEST PROCEDURE

1. The testing follows FCC KDB 971168 Section 5.8 and ANSI C63.26-2015 Section 5.2.
2. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
3. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
4. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
5. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a nonradiating cable. The absolute levels of the spurious emissions were measured by the substitution.
6. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26-2015. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.

EIRP=S.G Level+ Gain-Cable loss; ERP=S.G Level+ Gain-Cable loss-2.15.

TEST RESULT

Note: Test data See APPENDIX I.

6.4 OCCUPIED BANDWIDTH

TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

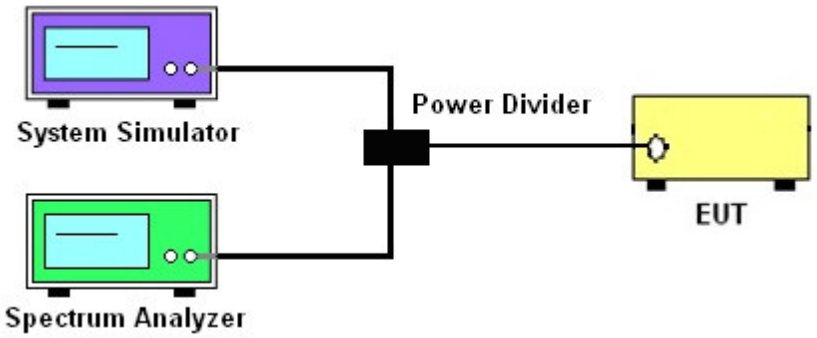
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

All modes of operation were investigated and the worst-case configuration results are reported in this section.

TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.5 FREQUENCY STABILITY

TEST OVERVIEW

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015. The frequency stability of the transmitter is measured by:

a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

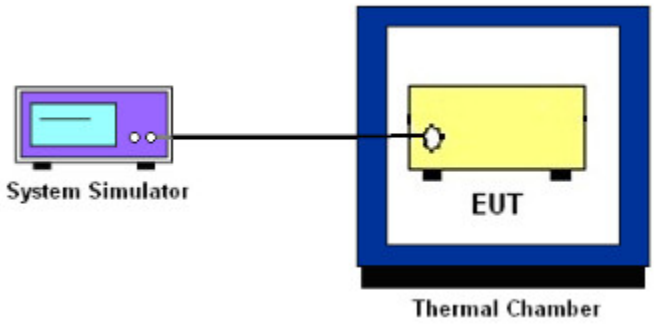
Temperature Variation

1. The testing follows FCC KDB 971168 D01 section 9.0
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Voltage Variation

1. The testing follows FCC KDB 971168 D01 Section 9.0.
2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

TEST OVERVIEW

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

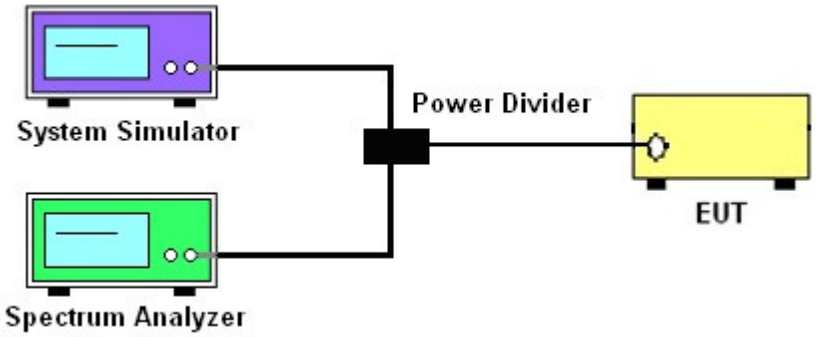
1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

= -13dBm.

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.7 BAND EDGE

TEST OVERVIEW

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is 43 + log10(P[Watts]), where P is the transmitter power in Watts.

TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26-2015-Section 5.7
2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.
3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
4. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.

The path loss was compensated to the results for each measurement.

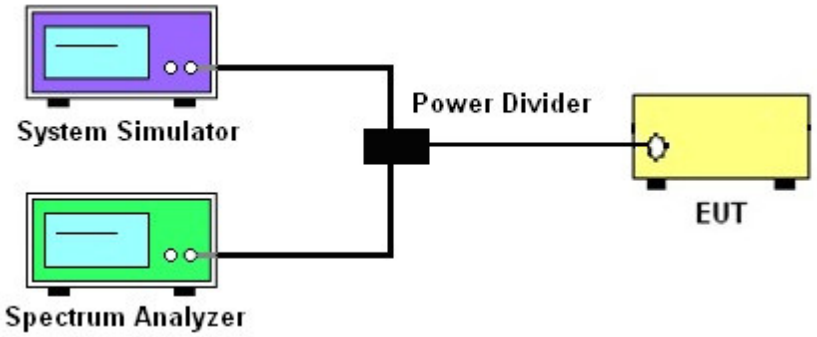
5. The band edges of low and high channels for the highest RF powers were measured.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

= -13dBm.

TEST SETUP



TEST RESULT

Note: Test data See APPENDIX I.

6.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

TEST OVERVIEW

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signalsoperating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarizedhorn antennas. All measurements are performed as peak measurements while the EUT isoperating at maximum power and at the appropriate frequencies.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

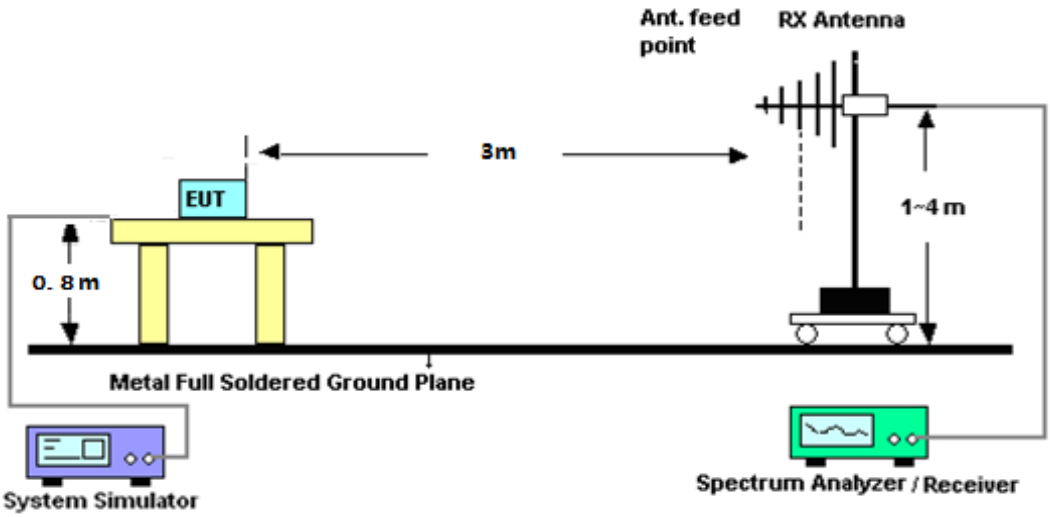
TEST PROCEDURE

1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW ≥ 3 x RBW
4. Span = 1.5 times the OBW
5.No. of sweep points > 2 x span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. The trace was allowed to stabilize
9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.

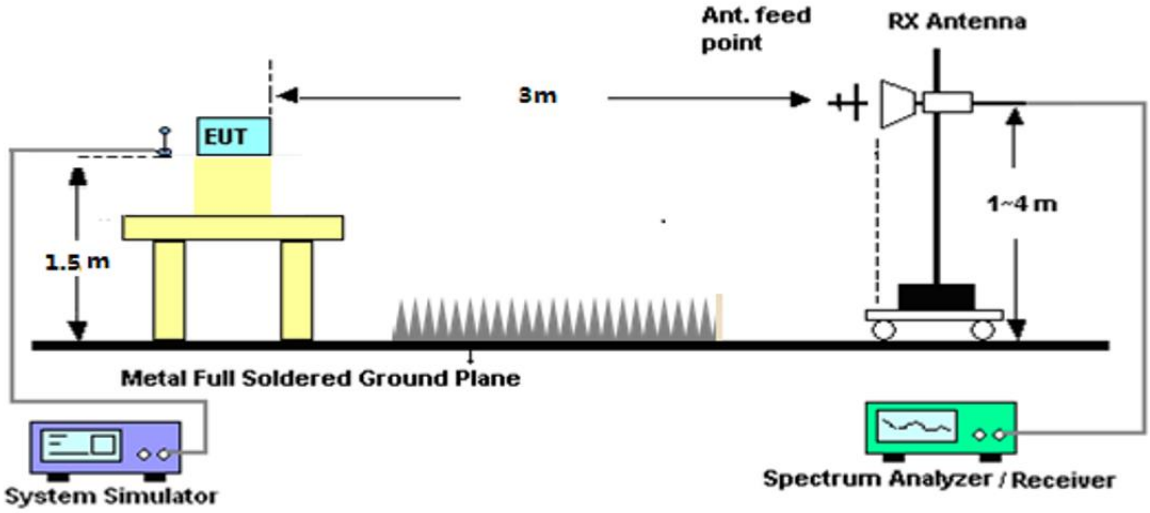
PMea=S.G Level+ Ant-Cable loss; Margin=PMea-Limit.

TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



TEST RESULT

Note: Test data See APPENDIX I.

APPENDIX I. TESTRESULT

2G

Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	Verdict
GSM850	128	824.2	31.69	-2.1	27.44	38.45	PASS
GSM850	190	836.6	32.03	-2.1	27.78	38.45	PASS
GSM850	251	848.8	31.75	-2.1	27.50	38.45	PASS
GPRS850 1 Slot	128	824.2	31.67	-2.1	27.42	38.45	PASS
GPRS850 1 Slot	190	836.6	32.03	-2.1	27.78	38.45	PASS
GPRS850 1 Slot	251	848.8	31.78	-2.1	27.53	38.45	PASS
GPRS850 2 Slot	128	824.2	30.91	-2.1	26.66	38.45	PASS
GPRS850 2 Slot	190	836.6	31.25	-2.1	27.00	38.45	PASS
GPRS850 2 Slot	251	848.8	31.00	-2.1	26.75	38.45	PASS
GPRS850 3 Slot	128	824.2	29.19	-2.1	24.94	38.45	PASS
GPRS850 3 Slot	190	836.6	29.60	-2.1	25.35	38.45	PASS
GPRS850 3 Slot	251	848.8	29.31	-2.1	25.06	38.45	PASS
GPRS850 4 Slot	128	824.2	28.31	-2.1	24.06	38.45	PASS
GPRS850 4 Slot	190	836.6	28.72	-2.1	24.47	38.45	PASS
GPRS850 4 Slot	251	848.8	28.40	-2.1	24.15	38.45	PASS

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
GSM1900	512	1850.2	26.35	-2.8	23.55	33.01	PASS
GSM1900	661	1880	26.50	-2.8	23.70	33.01	PASS
GSM1900	810	1909.8	26.01	-2.8	23.21	33.01	PASS
GPRS1900 1 Slot	512	1850.2	26.35	-2.8	23.55	33.01	PASS
GPRS1900 1 Slot	661	1880	26.48	-2.8	23.68	33.01	PASS
GPRS1900 1 Slot	810	1909.8	25.99	-2.8	23.19	33.01	PASS
GPRS1900 2 Slot	512	1850.2	25.99	-2.8	23.19	33.01	PASS
GPRS1900 2 Slot	661	1880	26.12	-2.8	23.32	33.01	PASS
GPRS1900 2 Slot	810	1909.8	25.64	-2.8	22.84	33.01	PASS
GPRS1900 3 Slot	512	1850.2	25.02	-2.8	22.22	33.01	PASS
GPRS1900 3 Slot	661	1880	25.13	-2.8	22.33	33.01	PASS
GPRS1900 3 Slot	810	1909.8	24.64	-2.8	21.84	33.01	PASS
GPRS1900 4 Slot	512	1850.2	24.40	-2.8	21.60	33.01	PASS
GPRS1900 4 Slot	661	1880	24.49	-2.8	21.69	33.01	PASS
GPRS1900 4 Slot	810	1909.8	24.00	-2.8	21.20	33.01	PASS

Frequency stability

GSM 850 /836.6MHz					
Temperature (°C)	**Voltage (Volt)**	**Freq. Dev. (Hz)**	**Freq. Dev. (ppm)**	**Limit**	**Result**
50	Normal Voltage	3.16	0.004	2.5ppm	PASS
40		2.87	0.003		
30		-3.10	-0.004		
20		-7.75	-0.009		
10		-2.92	-0.003		
0		-3.22	-0.004		
-10		3.12	0.004		
-20		2.97	0.004		
-30		3.22	0.004		
20	Maximum Voltage	-2.80	-0.003		
20	BEP	-2.80	-0.003		

GPRS 850 /836.6MHz					
Temperature (°C)	**Voltage (Volt)**	**Freq. Dev. (Hz)**	**Freq. Dev. (ppm)**	**Limit**	**Result**
50	Normal Voltage	-3.23	-0.004	2.5ppm	PASS
40		2.86	0.003		
30		2.95	0.004		
20		-7.85	-0.009		
10		-3.02	-0.004		
0		3.14	0.004		
-10		3.39	0.004		
-20		-3.05	-0.004		
-30		3.38	0.004		
20	Maximum Voltage	-2.94	-0.004		
20	BEP	-2.86	-0.003		

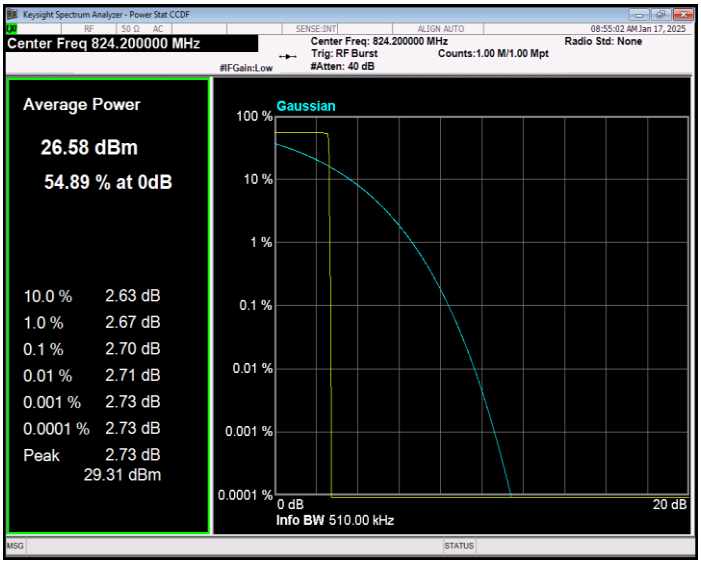
GSM 1900 / 1880MHz					
Temperature (°C)	**Voltage (Volt)**	**Freq. Dev. (Hz)**	**Freq. Dev. (ppm)**	**Limit**	**Result**
50	Normal Voltage	-7.94	-0.004	Within Authorized Band	PASS
40		8.45	0.004		
30		-8.00	-0.004		
20		-18.02	-0.010		
10		-8.07	-0.004		
0		-7.96	-0.004		
-10		8.06	0.004		
-20		-8.38	-0.004		
-30		-7.92	-0.004		
20	Maximum Voltage	-8.41	-0.004		
20	BEP	7.95	0.004		

GPRS 1900 / 1880MHz					
Temperature (°C)	**Voltage (Volt)**	**Freq. Dev. (Hz)**	**Freq. Dev. (ppm)**	**Limit**	**Result**
50	Normal Voltage	-10.04	-0.005	Within Authorized Band	PASS
40		9.87	0.005		
30		-10.04	-0.005		
20		-21.41	-0.011		
10		-9.66	-0.005		
0		-9.71	-0.005		
-10		10.13	0.005		
-20		-9.61	-0.005		
-30		9.66	0.005		
20	Maximum Voltage	9.66	0.005		
20	BEP	-9.81	-0.005		

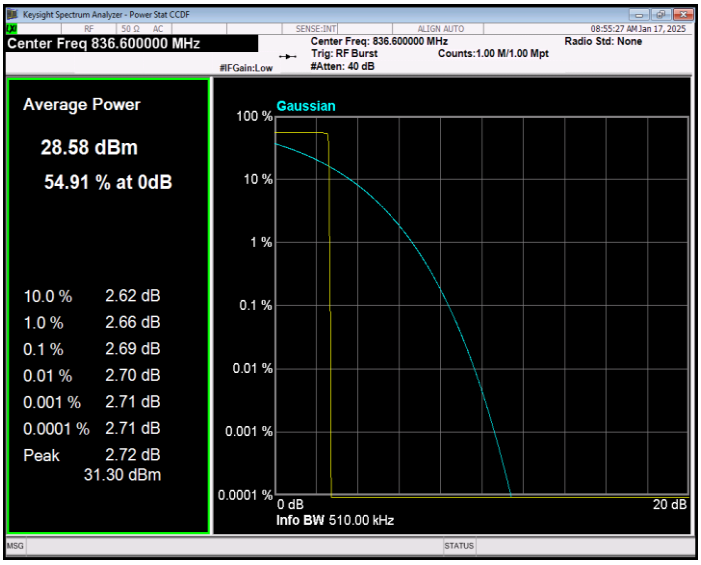
Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.70	13	PASS
GSM850	190	836.6	2.69	13	PASS
GSM850	251	848.8	2.70	13	PASS
GPRS850	128	824.2	2.74	13	PASS
GPRS850	190	836.6	2.74	13	PASS
GPRS850	251	848.8	2.74	13	PASS
GSM1900	512	1850.2	2.69	13	PASS
GSM1900	661	1880	2.69	13	PASS
GSM1900	810	1909.8	2.69	13	PASS
GPRS1900	512	1850.2	2.75	13	PASS
GPRS1900	661	1880	2.74	13	PASS
GPRS1900	810	1909.8	2.74	13	PASS

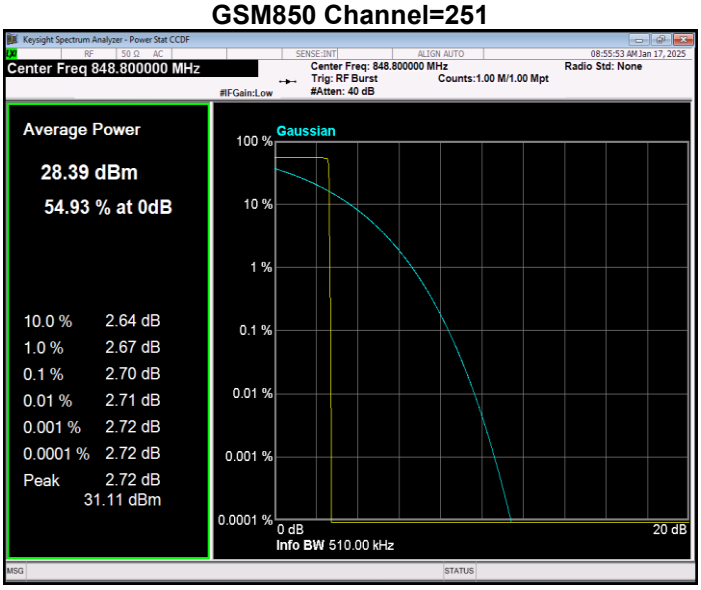
GSM850 Channel=128



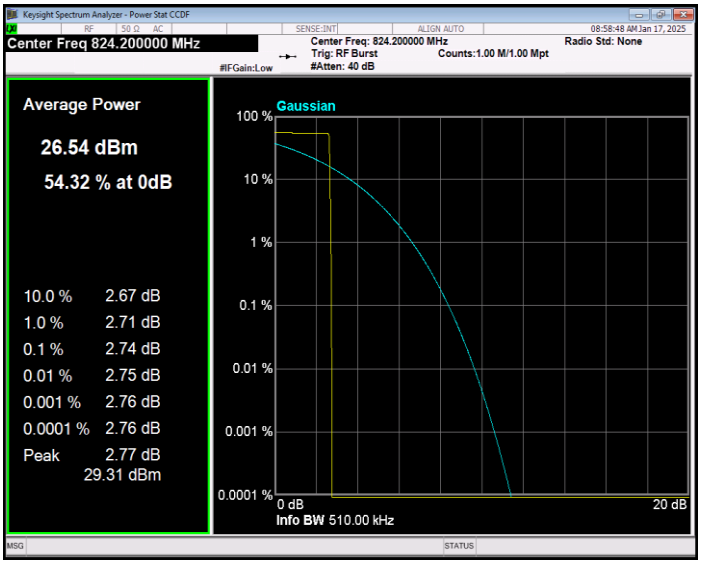
GSM850 Channel=190



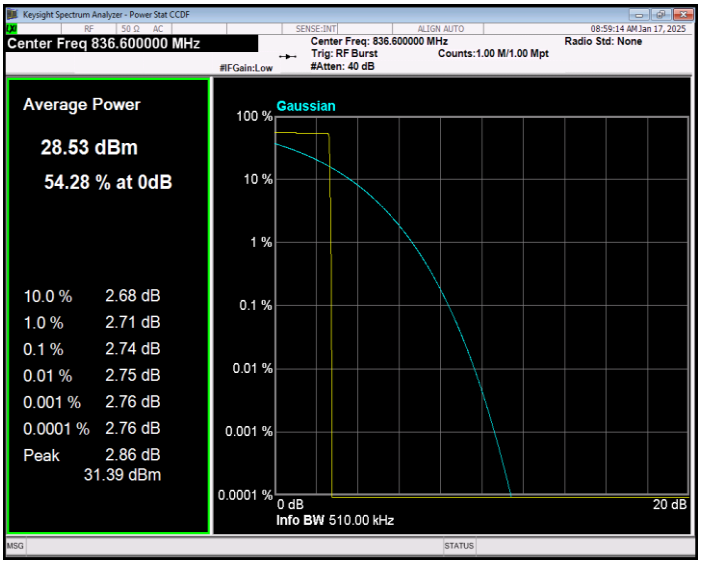
GSM850 Channel=251



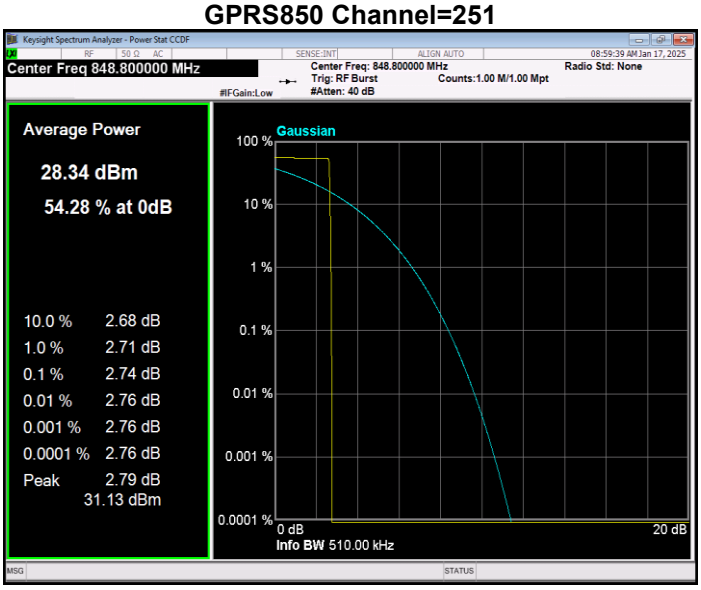
GPRS850 Channel=128



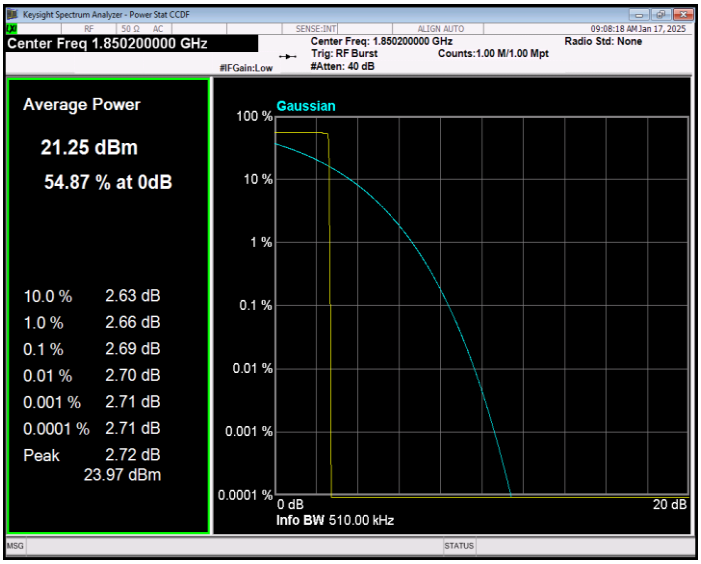
GPRS850 Channel=190



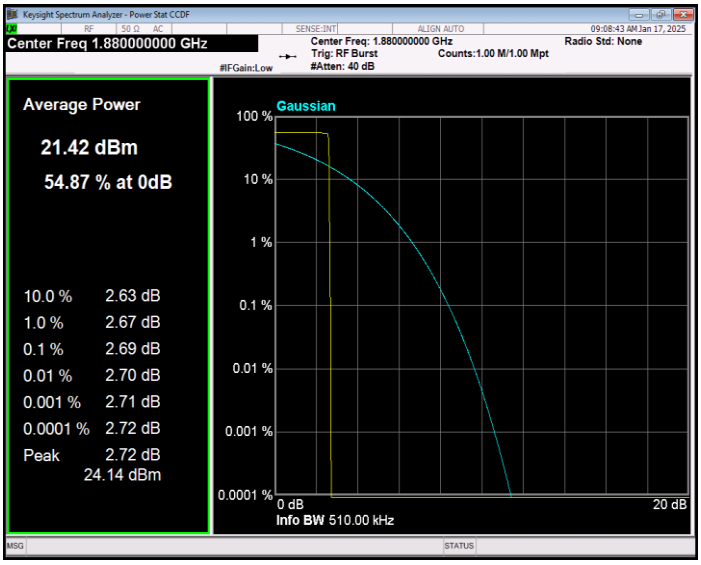
GPRS850 Channel=251



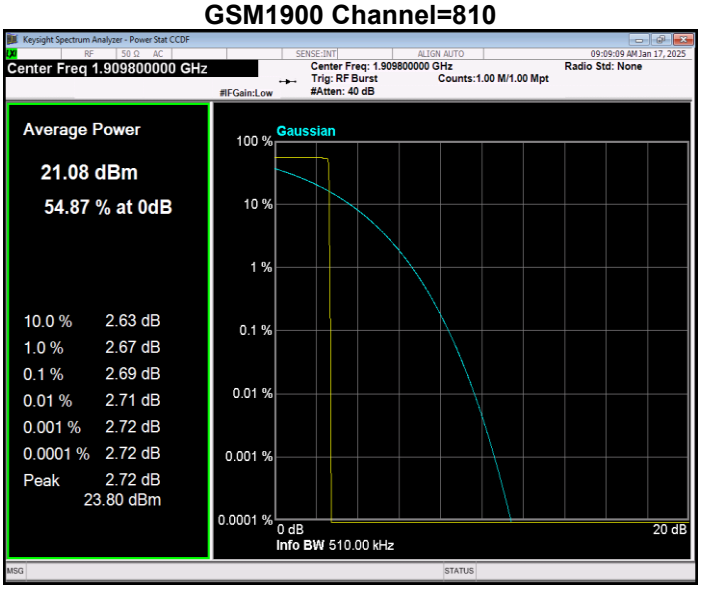
GSM1900 Channel=512



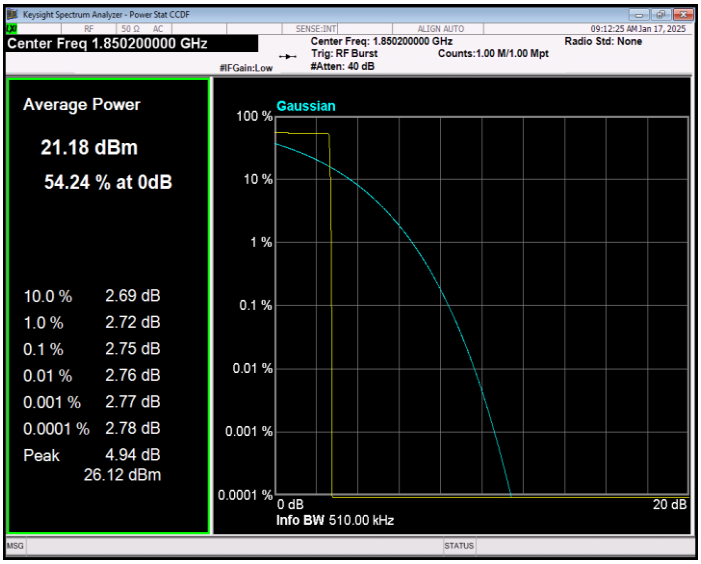
GSM1900 Channel=661



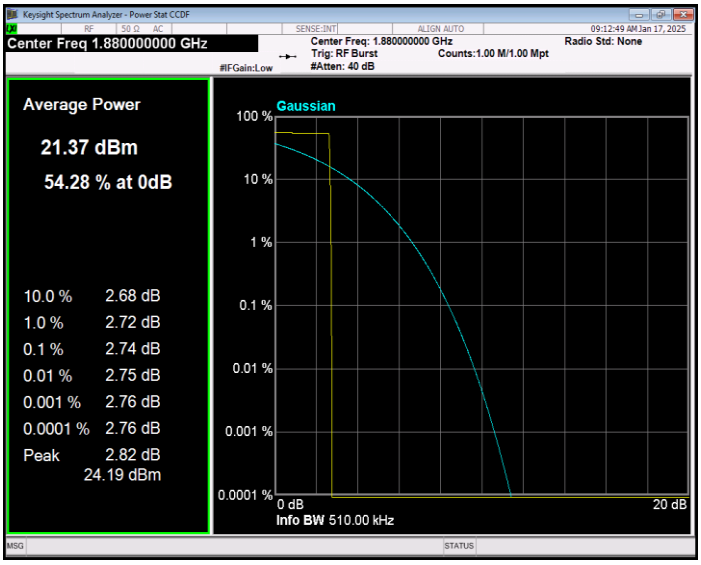
GSM1900 Channel=810



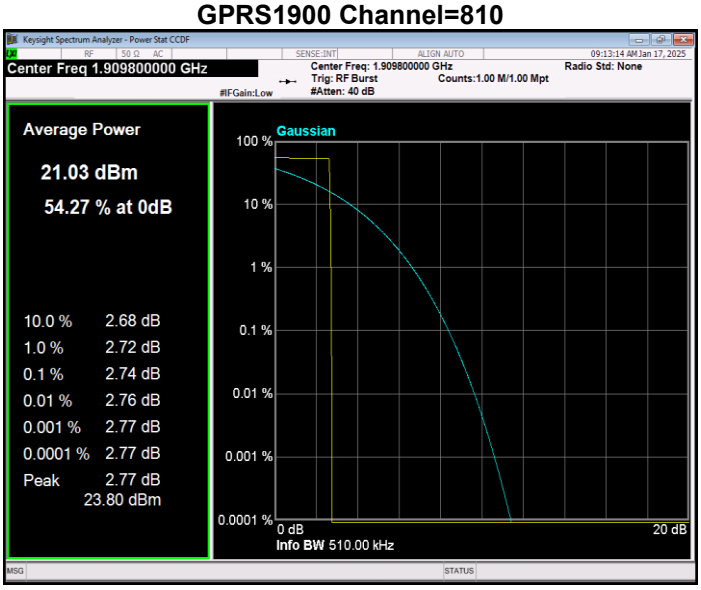
GPRS1900 Channel=512



GPRS1900 Channel=661



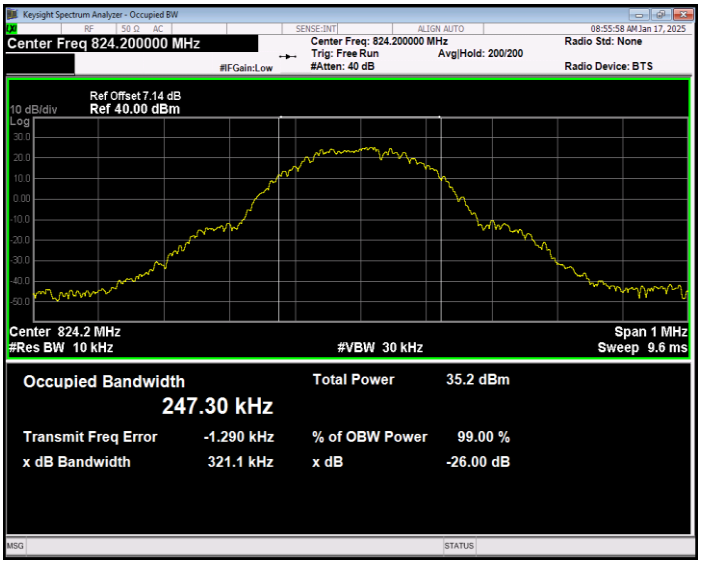
GPRS1900 Channel=810



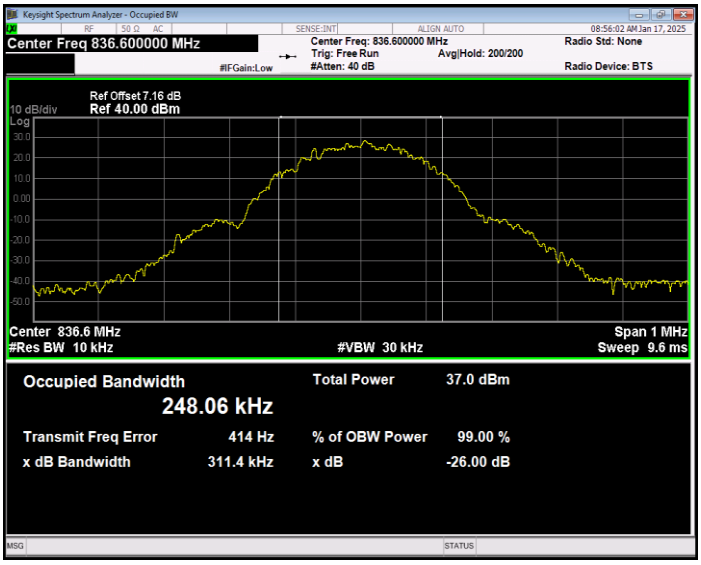
Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	247.302	321.128	PASS
GSM850	190	836.6	248.064	311.411	PASS
GSM850	251	848.8	242.904	310.674	PASS
GPRS850	128	824.2	246.106	311.341	PASS
GPRS850	190	836.6	247.633	313.702	PASS
GPRS850	251	848.8	246.655	319.096	PASS
GSM1900	512	1850.2	243.427	312.580	PASS
GSM1900	661	1880	239.572	304.087	PASS
GSM1900	810	1909.8	246.451	309.820	PASS
GPRS1900	512	1850.2	241.002	314.585	PASS
GPRS1900	661	1880	242.255	315.979	PASS
GPRS1900	810	1909.8	243.376	318.170	PASS

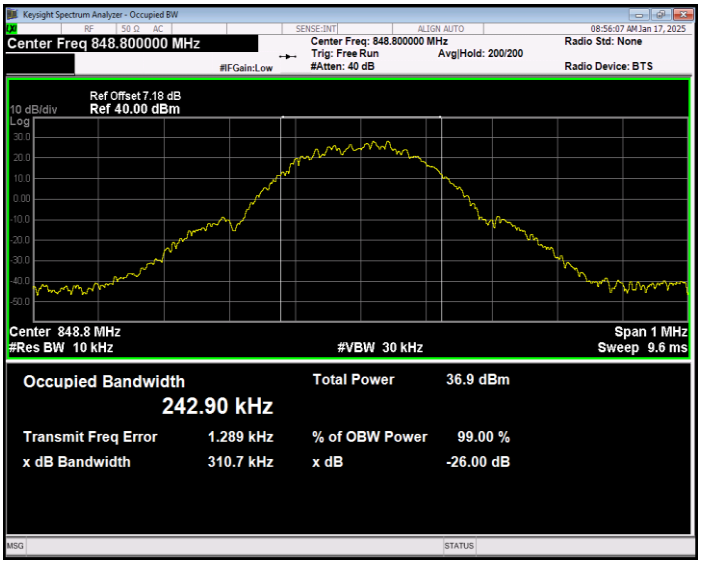
GSM850 Channel=128



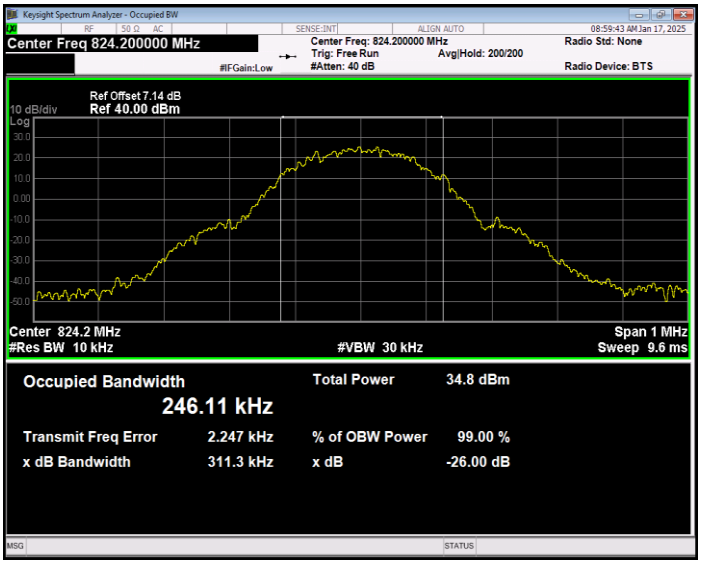
GSM850 Channel=190



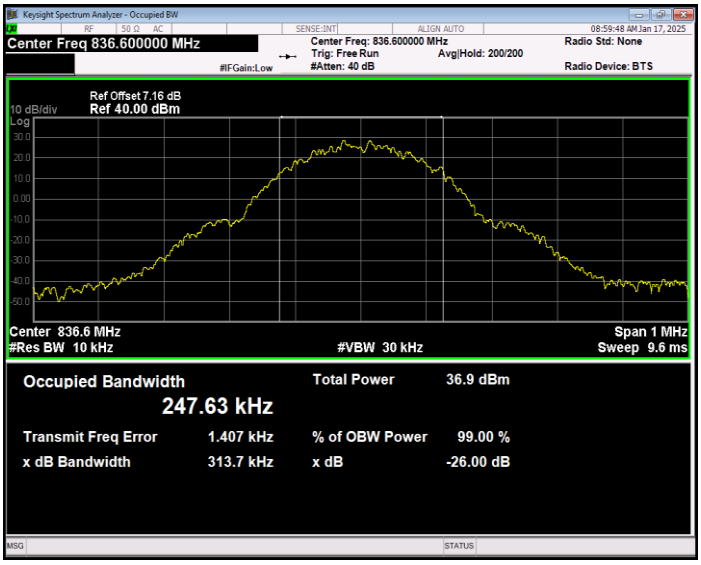
GSM850 Channel=251



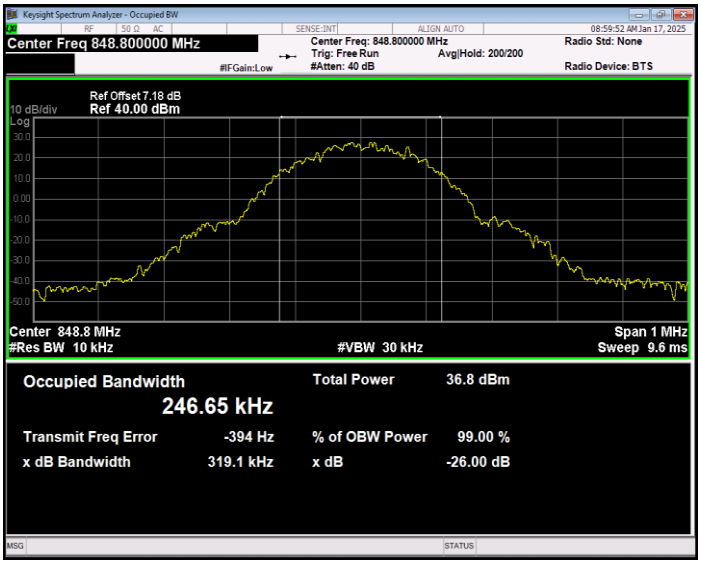
GPRS850 Channel=128



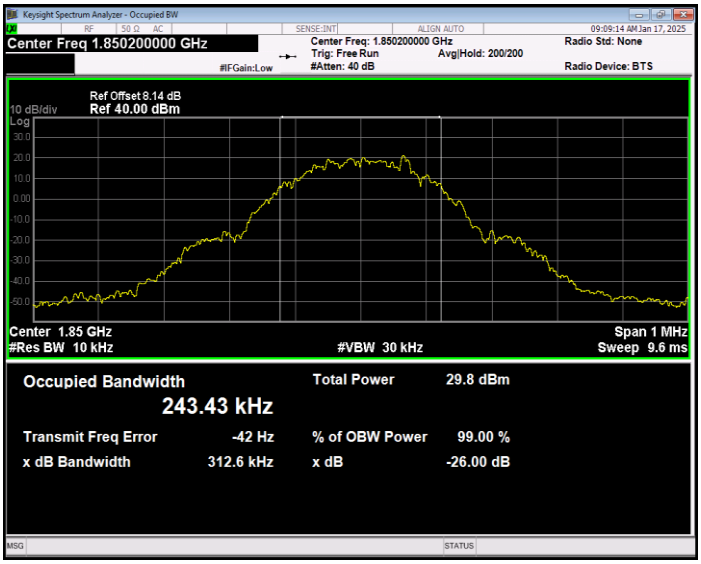
GPRS850 Channel=190



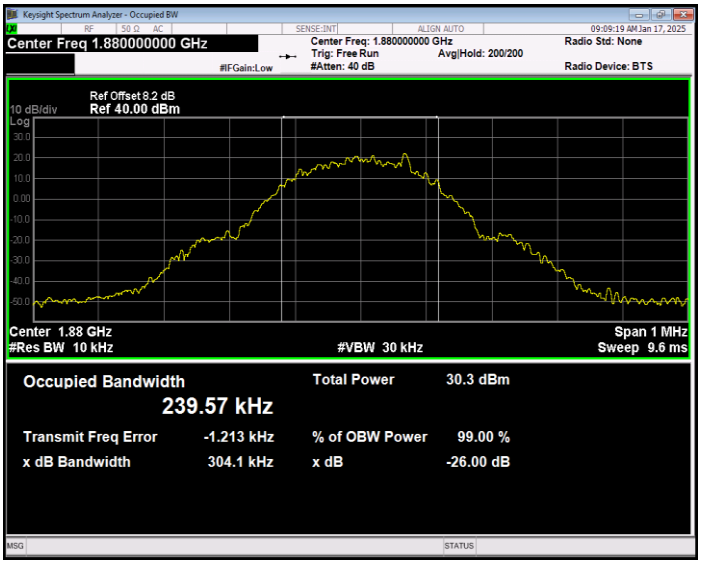
GPRS850 Channel=251



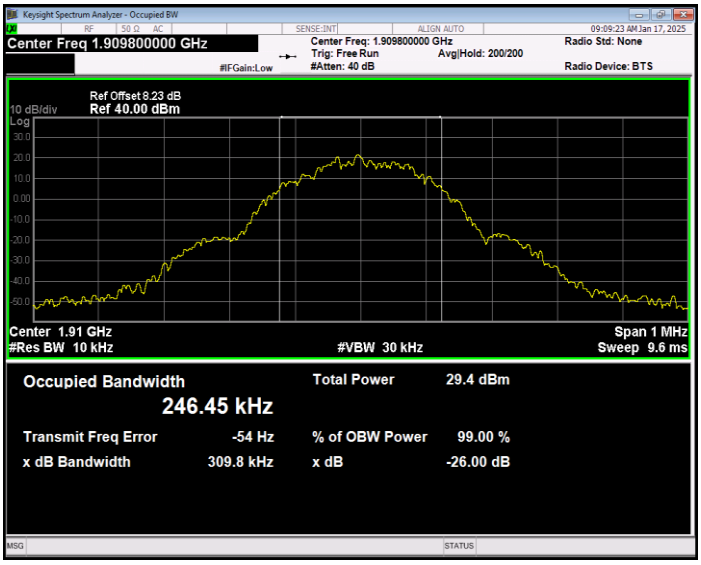
GSM1900 Channel=512



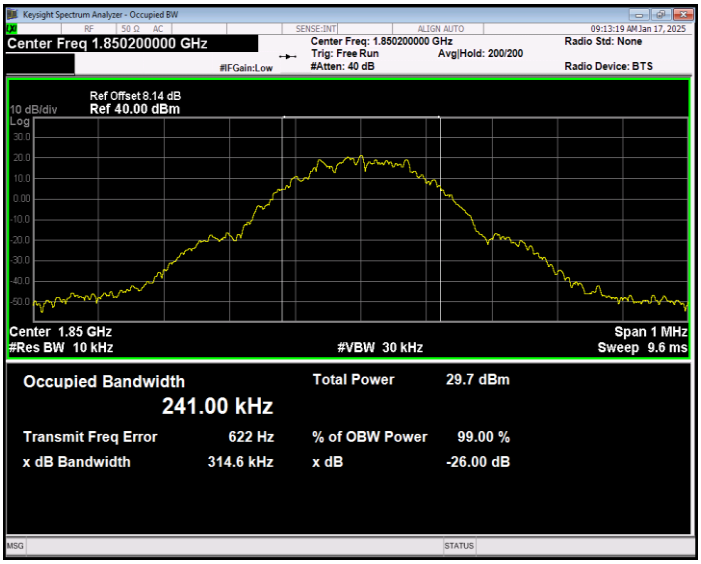
GSM1900 Channel=661



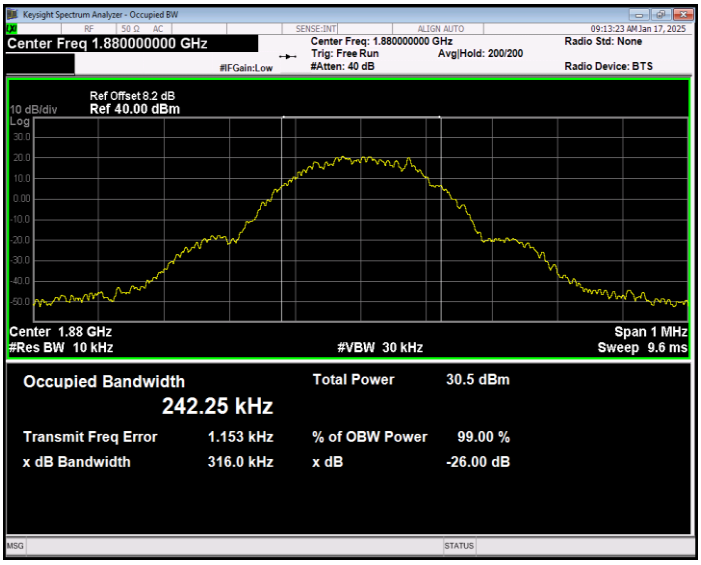
GSM1900 Channel=810



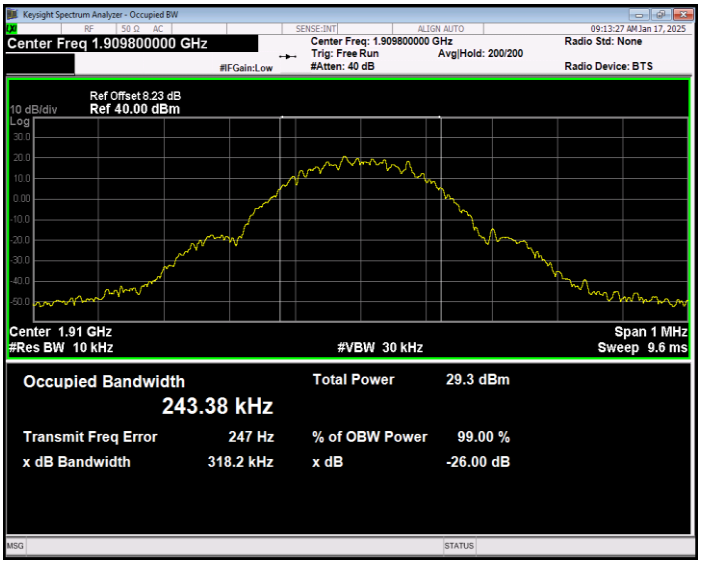
GPRS1900 Channel=512



GPRS1900 Channel=661



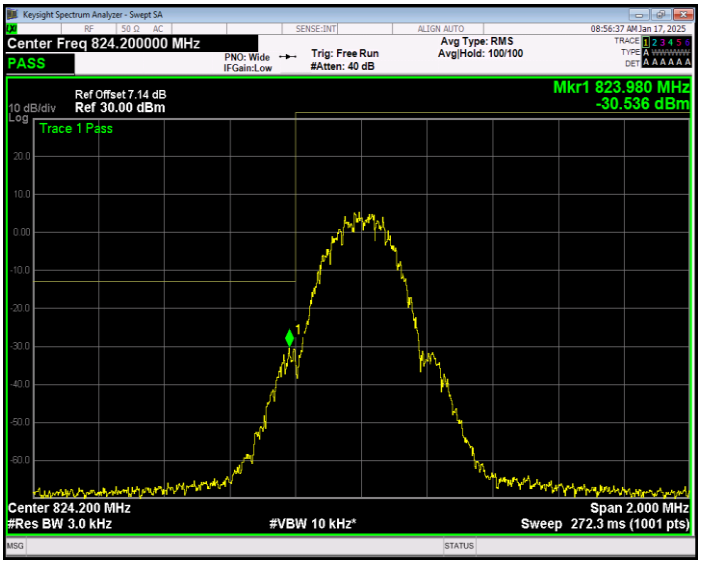
GPRS1900 Channel=810



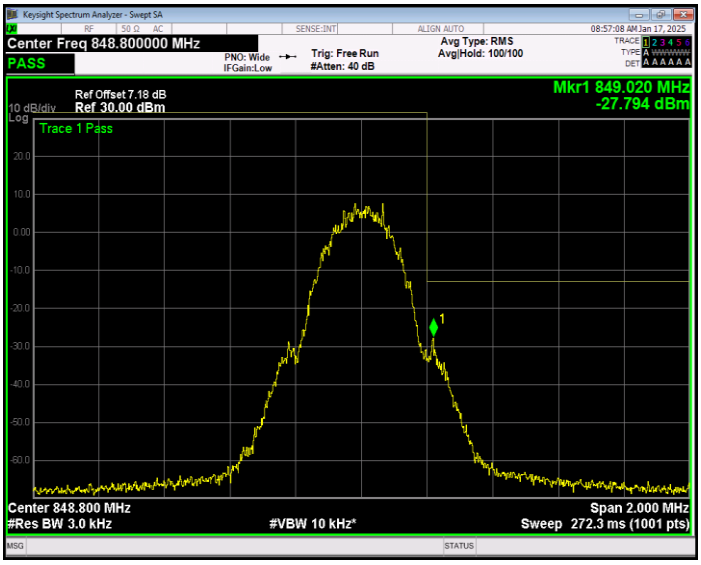
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	823.98	-30.53	-13	PASS
GSM850	251	848.8	849.02	-27.79	-13	PASS
GPRS850	128	824.2	824.00	-31.17	-13	PASS
GPRS850	251	848.8	849.02	-28.45	-13	PASS
GSM1900	512	1850.2	1850.00	-36.10	-13	PASS
GSM1900	810	1909.8	1910.02	-35.91	-13	PASS
GPRS1900	512	1850.2	1849.98	-36.81	-13	PASS
GPRS1900	810	1909.8	1910.01	-37.12	-13	PASS

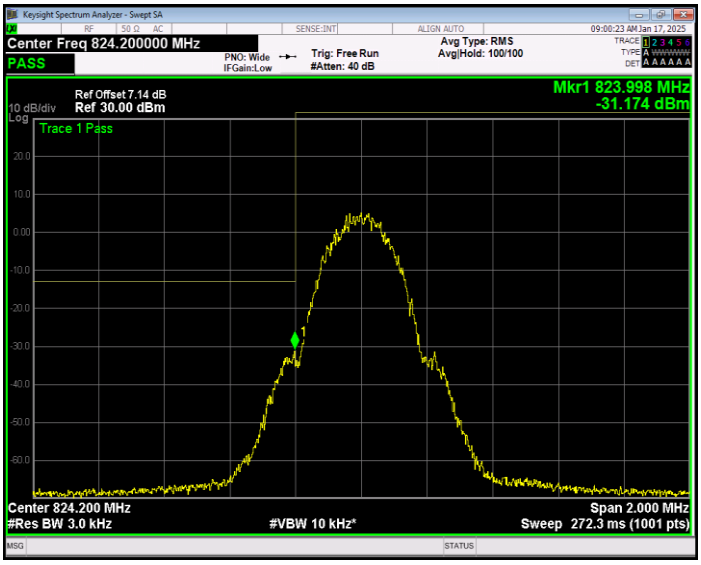
GSM850 Channel=128



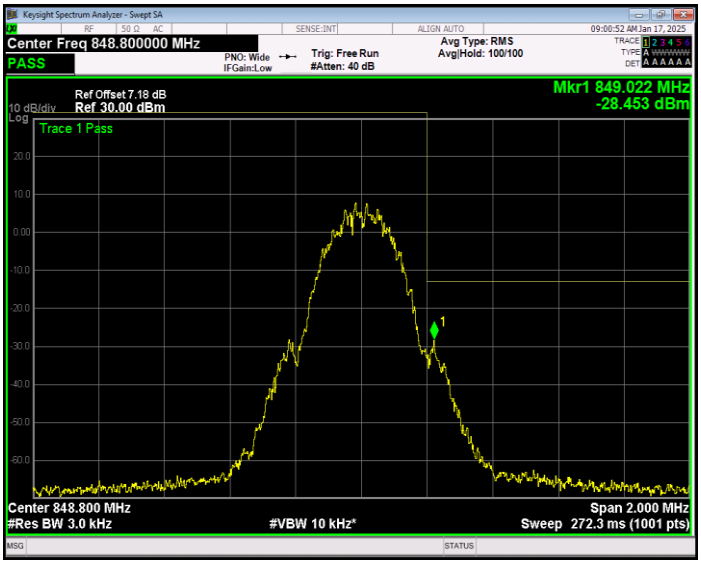
GSM850 Channel=251



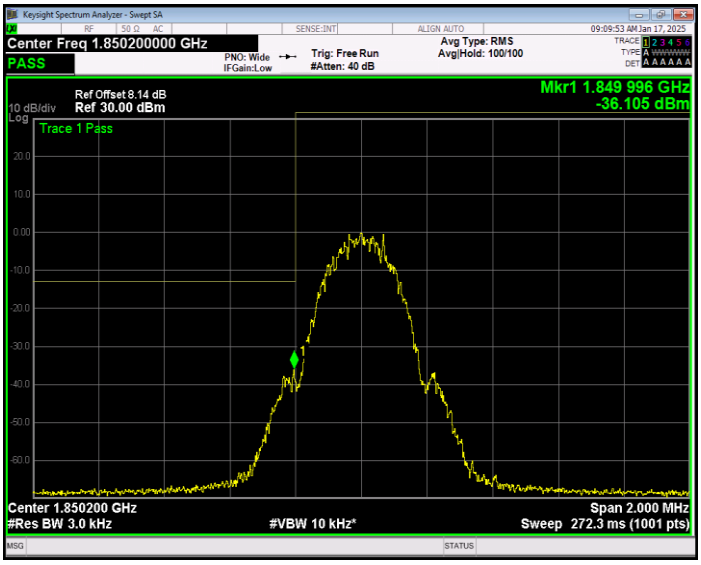
GPRS850 Channel=128



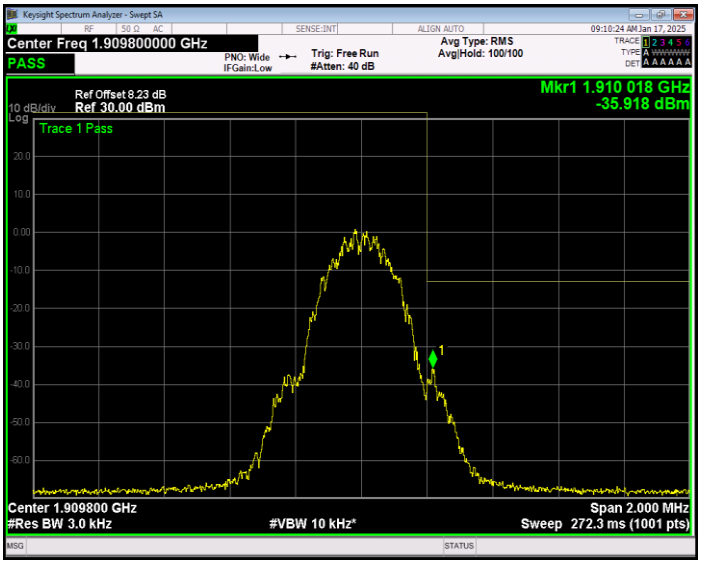
GPRS850 Channel=251



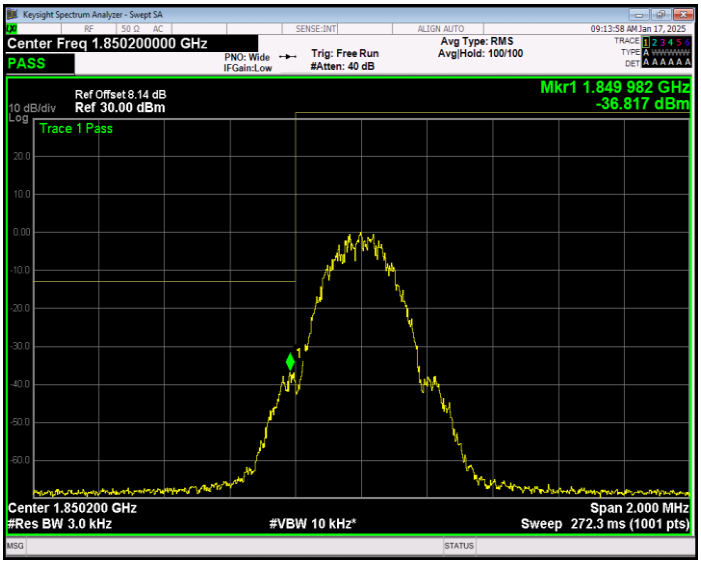
GSM1900 Channel=512



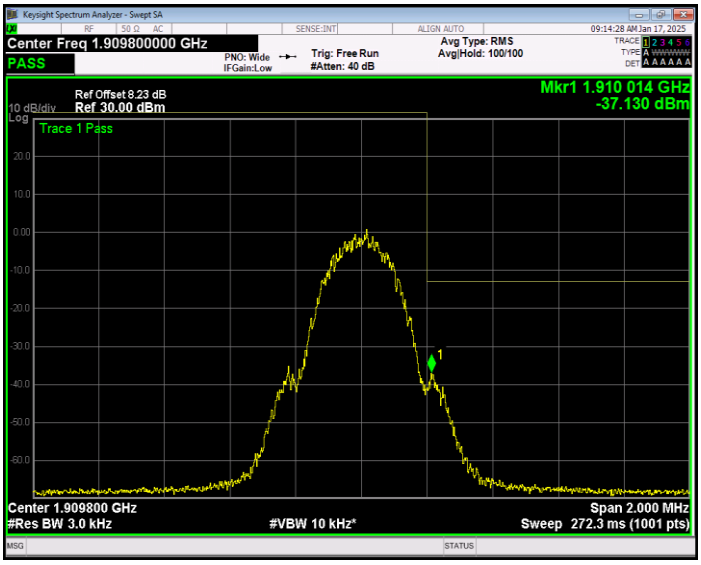
GSM1900 Channel=810



GPRS1900 Channel=512



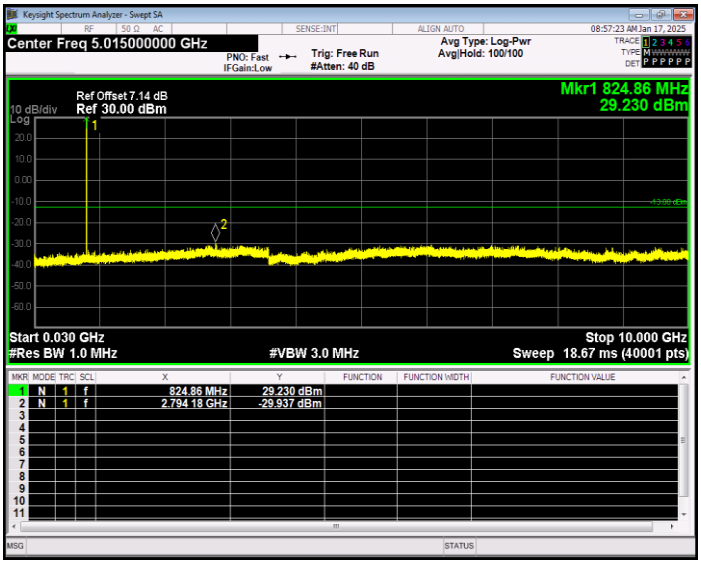
GPRS1900 Channel=810



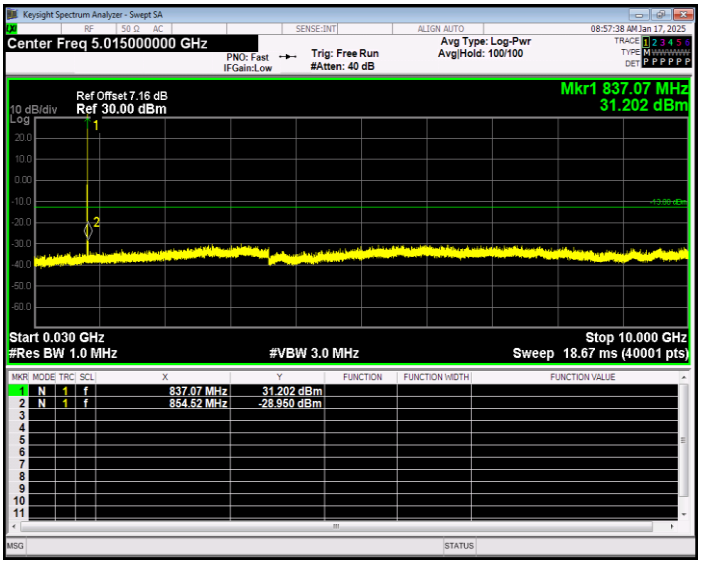
Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	2794.18	-29.93	-13	PASS
GSM850	190	836.6	854.52	-28.94	-13	PASS
GSM850	251	848.8	860.75	-20.29	-13	PASS
GPRS850	128	824.2	3302.65	-30.34	-13	PASS
GPRS850	190	836.6	6094.75	-29.44	-13	PASS
GPRS850	251	848.8	3236.10	-29.47	-13	PASS
GSM1900	512	1850.2	19620.07	-22.60	-13	PASS
GSM1900	661	1880	19348.48	-23.25	-13	PASS
GSM1900	810	1909.8	19352.97	-23.44	-13	PASS
GPRS1900	512	1850.2	19973.54	-21.38	-13	PASS
GPRS1900	661	1880	18665.01	-23.24	-13	PASS
GPRS1900	810	1909.8	19006.49	-23.23	-13	PASS

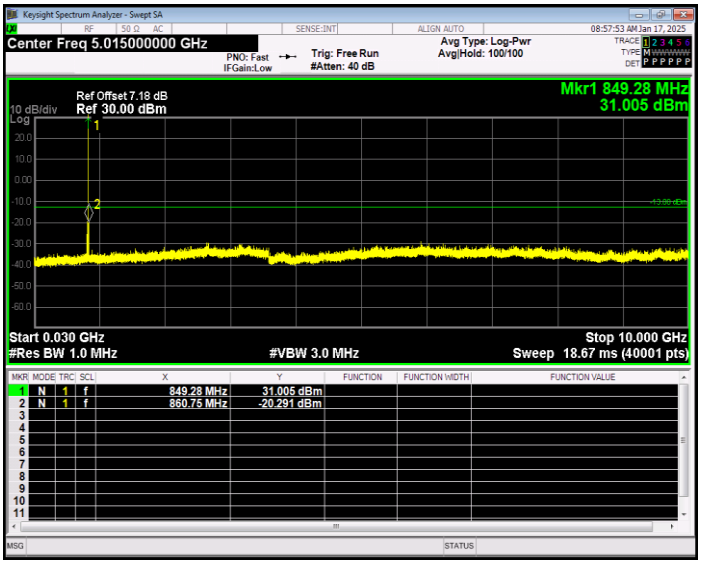
GSM850 Channel=128



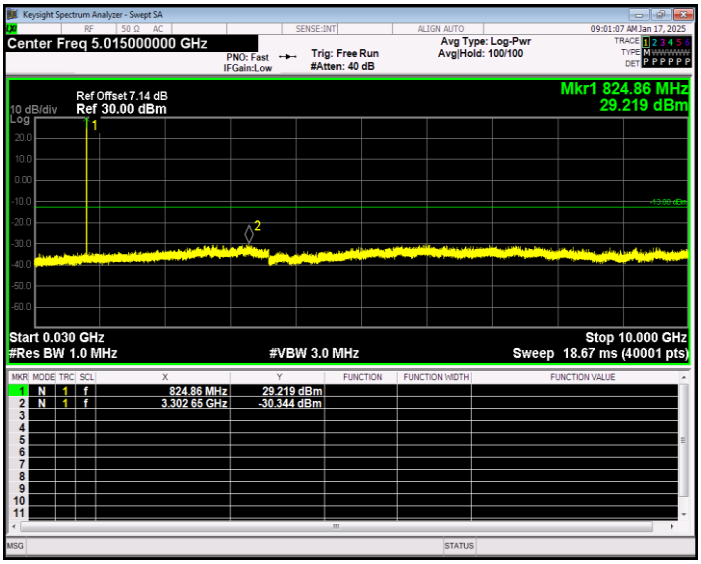
GSM850 Channel=190



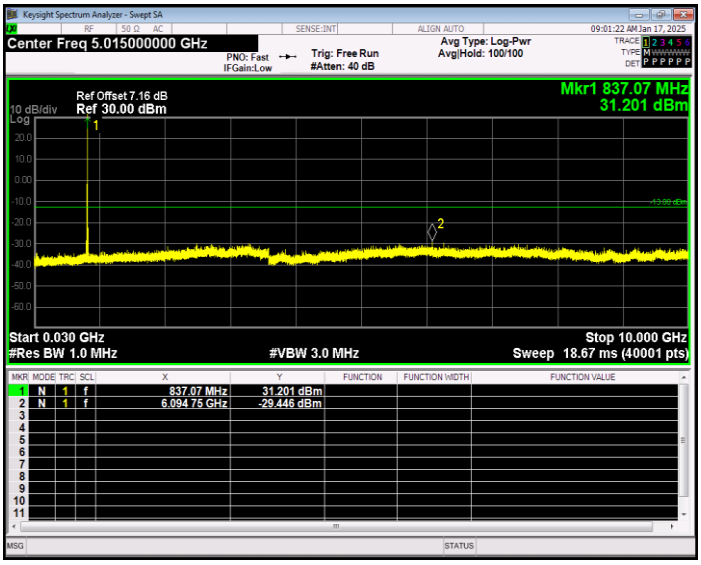
GSM850 Channel=251



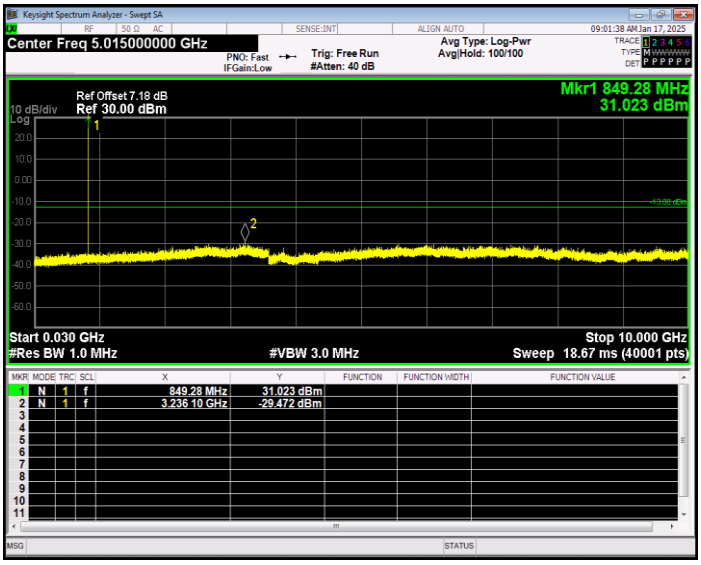
GPRS850 Channel=128



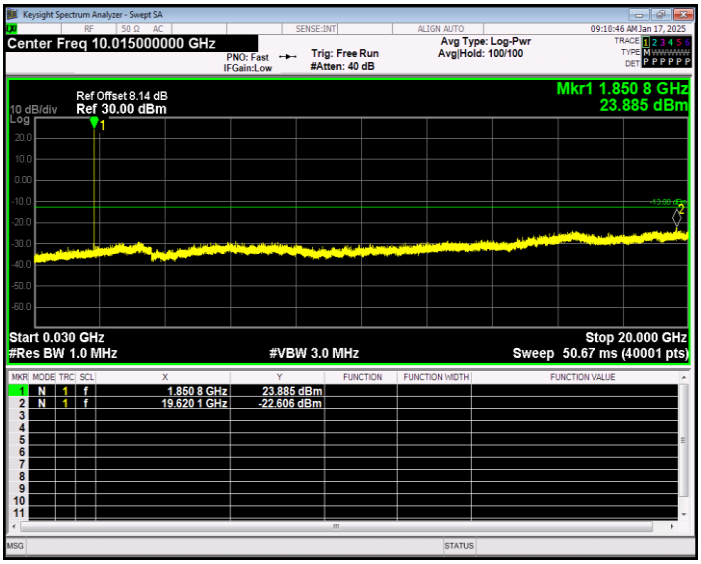
GPRS850 Channel=190



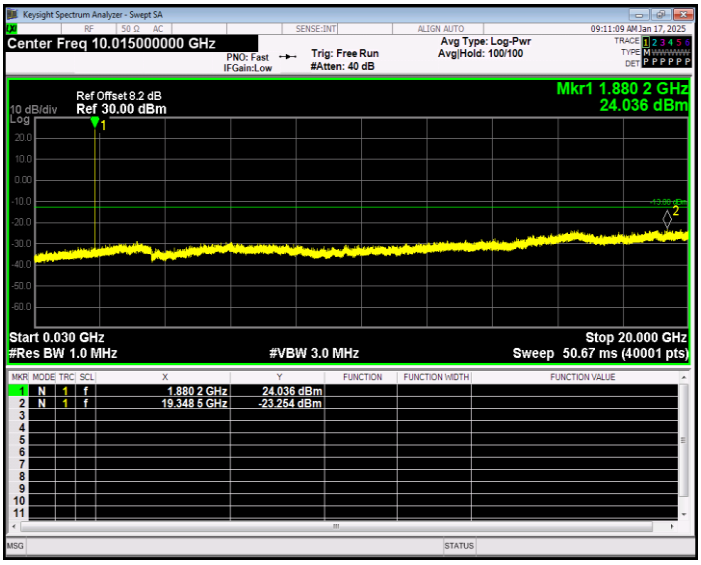
GPRS850 Channel=251



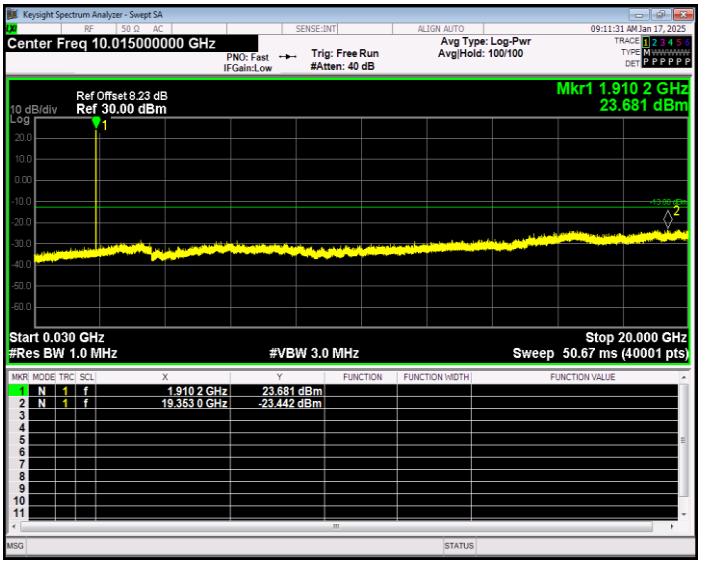
GSM1900 Channel=512



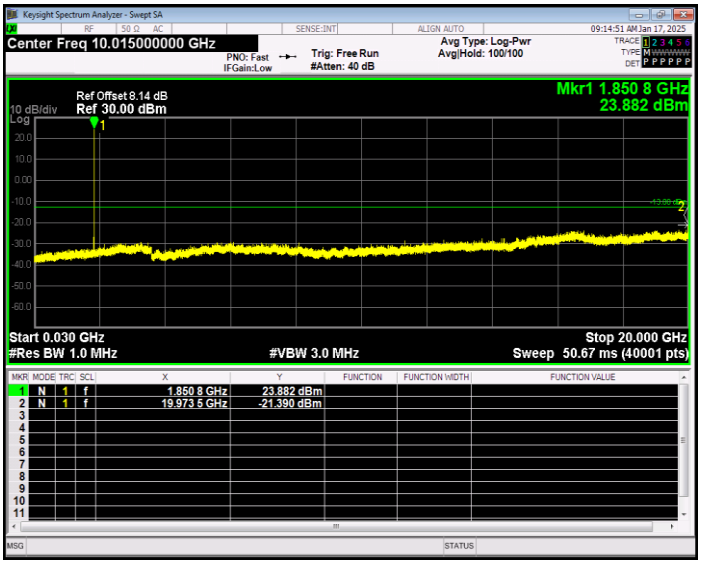
GSM1900 Channel=661



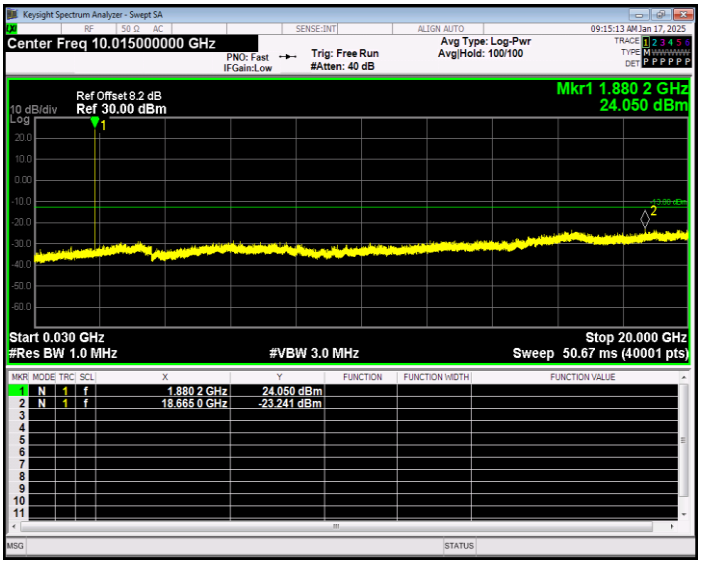
GSM1900 Channel=810



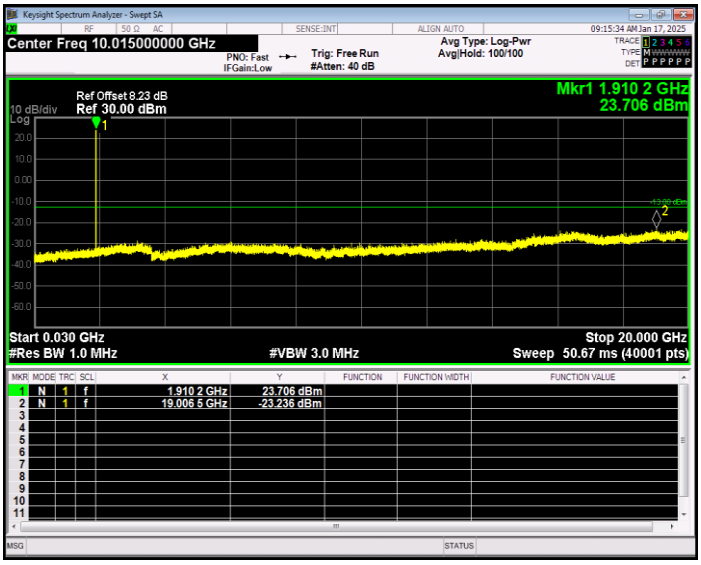
GPRS1900 Channel=512



GPRS1900 Channel=661



GPRS1900 Channel=810



RADIATED SPURIOUS EMISSION

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequeny below 1000MHz.

(2) Test is divided into three directions, X/Y/Z. X pattern for the worst.

GSM 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1648.49	-33.43	7.40	4.75	-30.78	-13.00	-17.78	H
2472.56	-31.75	8.20	8.39	-31.94	-13.00	-18.94	H
3296.73	-25.08	7.20	11.79	-29.67	-13.00	-16.67	H
1648.34	-28.61	7.40	4.75	**-25.96**	-13.00	-12.96	V
2472.71	-29.69	8.20	8.39	-29.88	-13.00	-16.88	V
3296.52	-22.22	7.20	11.79	-26.81	-13.00	-13.81	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.03	-32.92	7.40	4.76	-30.28	-13.00	-17.28	H
2509.48	-28.93	8.20	8.40	-29.13	-13.00	-16.13	H
3346.40	-25.90	7.20	11.80	-30.50	-13.00	-17.50	H
1673.01	-27.00	7.40	4.75	**-24.35**	-13.00	-11.35	V
2509.89	-29.91	8.20	8.39	-30.10	-13.00	-17.10	V
3345.99	-25.08	7.20	11.82	-29.70	-13.00	-16.70	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1697.33	-32.83	7.40	4.77	-30.20	-13.00	-17.20	H
2546.14	-29.14	8.20	8.50	-29.44	-13.00	-16.44	H
3395.06	-28.91	7.20	11.90	-33.61	-13.00	-20.61	H
1697.22	-30.85	7.40	4.77	**-28.22**	-13.00	-15.22	V
2546.26	-30.03	8.20	8.50	-30.33	-13.00	-17.33	V
3395.17	-25.11	7.20	11.90	-29.81	-13.00	-16.81	V

GPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1648.40	-33.40	7.40	4.75	-30.75	-13.00	-17.75	H
2472.33	-33.61	8.20	8.39	-33.80	-13.00	-20.80	H
3296.54	-28.11	7.20	11.79	-32.70	-13.00	-19.70	H
1648.26	-29.09	7.40	4.75	**-26.44**	-13.00	-13.44	V
2472.28	-29.54	8.20	8.39	-29.73	-13.00	-16.73	V
3296.69	-25.44	7.20	11.79	-30.03	-13.00	-17.03	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.20	-35.14	7.40	4.76	-32.50	-13.00	-19.50	H
2509.50	-32.54	8.20	8.40	-32.74	-13.00	-19.74	H
3346.39	-27.08	7.20	11.80	-31.68	-13.00	-18.68	H
1673.14	-28.60	7.40	4.75	**-25.95**	-13.00	-12.95	V
2509.79	-29.36	8.20	8.39	-29.55	-13.00	-16.55	V
3346.44	-24.23	7.20	11.82	-28.85	-13.00	-15.85	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1697.53	-34.96	7.40	4.77	-32.33	-13.00	-19.33	H
2546.20	-32.32	8.20	8.50	-32.62	-13.00	-19.62	H
3395.02	-28.73	7.20	11.90	-33.43	-13.00	-20.43	H
1697.38	-29.07	7.40	4.77	**-26.44**	-13.00	-13.44	V
2546.23	-29.23	8.20	8.50	-29.53	-13.00	-16.53	V
3395.19	-23.49	7.20	11.90	-28.19	-13.00	-15.19	V

PCS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3700.23	-24.48	7.00	12.93	-30.41	-13.00	-17.41	H
5550.40	-23.81	8.40	17.11	-32.52	-13.00	-19.52	H
7400.59	-25.49	8.30	22.20	-39.39	-13.00	-26.39	H
3700.26	-21.22	7.00	12.93	**-27.15**	-13.00	-14.15	V
5550.58	-22.84	8.40	17.11	-31.55	-13.00	-18.55	V
7400.86	-20.89	8.30	22.20	-34.79	-13.00	-21.79	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3760.11	-24.81	7.00	12.93	-30.74	-13.00	-17.74	H
5640.26	-22.66	8.40	17.11	-31.37	-13.00	-18.37	H
7519.83	-24.93	8.30	22.20	-38.83	-13.00	-25.83	H
3760.30	-21.05	7.00	12.93	**-26.98**	-13.00	-13.98	V
5640.34	-25.23	8.40	17.11	-33.94	-13.00	-20.94	V
7520.03	-20.75	8.30	22.20	-34.65	-13.00	-21.65	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3819.25	-25.71	7.00	12.93	-31.64	-13.00	-18.64	H
5729.12	-23.28	8.40	17.11	-31.99	-13.00	-18.99	H
7639.09	-27.16	8.30	22.20	-41.06	-13.00	-28.06	H
3819.74	-24.26	7.00	12.93	**-30.19**	-13.00	-17.19	V
5729.19	-22.74	8.40	17.11	-31.45	-13.00	-18.45	V
7638.99	-22.53	8.30	22.20	-36.43	-13.00	-23.43	V

GPRS1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3700.12	-27.06	7.00	12.93	-32.99	-13.00	-19.99	H
5550.37	-22.51	8.40	17.11	-31.22	-13.00	-18.22	H
7400.82	-24.61	8.30	22.20	-38.51	-13.00	-25.51	H
3700.19	-21.63	7.00	12.93	**-27.56**	-13.00	-14.56	V
5550.41	-22.07	8.40	17.11	-30.78	-13.00	-17.78	V
7400.65	-21.99	8.30	22.20	-35.89	-13.00	-22.89	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3759.85	-25.01	7.00	12.93	-30.94	-13.00	-17.94	H
5640.17	-24.25	8.40	17.11	-32.96	-13.00	-19.96	H
7520.20	-26.77	8.30	22.20	-40.67	-13.00	-27.67	H
3759.99	-24.07	7.00	12.93	**-30.00**	-13.00	-17.00	V
5640.24	-22.47	8.40	17.11	-31.18	-13.00	-18.18	V
7520.21	-20.98	8.30	22.20	-34.88	-13.00	-21.88	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3819.47	-26.08	7.00	12.93	-32.01	-13.00	-19.01	H
5729.16	-26.80	8.40	17.11	-35.51	-13.00	-22.51	H
7639.09	-27.15	8.30	22.20	-41.05	-13.00	-28.05	H
3819.49	-25.31	7.00	12.93	**-31.24**	-13.00	-18.24	V
5729.35	-23.96	8.40	17.11	-32.67	-13.00	-19.67	V
7639.03	-21.17	8.30	22.20	-35.07	-13.00	-22.07	V

3G

Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
WCDMA Band2	9262	1852.4	19.70	-2.8	16.90	33.01	PASS
WCDMA Band2	9400	1880	19.67	-2.8	16.87	33.01	PASS
WCDMA Band2	9538	1907.6	19.72	-2.8	16.92	33.01	PASS
HSDPA Band2 Subtest1	9262	1852.4	18.70	-2.8	15.90	33.01	PASS
HSDPA Band2 Subtest2	9262	1852.4	18.21	-2.8	15.41	33.01	PASS
HSDPA Band2 Subtest3	9262	1852.4	17.20	-2.8	14.40	33.01	PASS
HSDPA Band2 Subtest4	9262	1852.4	17.08	-2.8	14.28	33.01	PASS
HSDPA Band2 Subtest1	9400	1880	18.74	-2.8	15.94	33.01	PASS
HSDPA Band2 Subtest2	9400	1880	18.30	-2.8	15.50	33.01	PASS
HSDPA Band2 Subtest3	9400	1880	17.22	-2.8	14.42	33.01	PASS
HSDPA Band2 Subtest4	9400	1880	17.28	-2.8	14.48	33.01	PASS
HSDPA Band2 Subtest1	9538	1907.6	18.78	-2.8	15.98	33.01	PASS
HSDPA Band2 Subtest2	9538	1907.6	18.19	-2.8	15.39	33.01	PASS
HSDPA Band2 Subtest3	9538	1907.6	17.10	-2.8	14.30	33.01	PASS
HSDPA Band2 Subtest4	9538	1907.6	17.45	-2.8	14.65	33.01	PASS
HSUPA Band2 Subtest1	9262	1852.4	17.77	-2.8	14.97	33.01	PASS
HSUPA Band2 Subtest2	9262	1852.4	18.61	-2.8	15.81	33.01	PASS
HSUPA Band2 Subtest3	9262	1852.4	16.85	-2.8	14.05	33.01	PASS
HSUPA Band2 Subtest4	9262	1852.4	18.67	-2.8	15.87	33.01	PASS
HSUPA Band2 Subtest5	9262	1852.4	17.43	-2.8	14.63	33.01	PASS
HSUPA Band2 Subtest1	9400	1880	18.44	-2.8	15.64	33.01	PASS
HSUPA Band2 Subtest2	9400	1880	18.54	-2.8	15.74	33.01	PASS
HSUPA Band2 Subtest3	9400	1880	17.04	-2.8	14.24	33.01	PASS
HSUPA Band2 Subtest4	9400	1880	18.67	-2.8	15.87	33.01	PASS
HSUPA Band2 Subtest5	9400	1880	18.15	-2.8	15.35	33.01	PASS
HSUPA Band2 Subtest1	9538	1907.6	18.55	-2.8	15.75	33.01	PASS
HSUPA Band2 Subtest2	9538	1907.6	18.54	-2.8	15.74	33.01	PASS
HSUPA Band2 Subtest3	9538	1907.6	17.23	-2.8	14.43	33.01	PASS
HSUPA Band2 Subtest4	9538	1907.6	18.73	-2.8	15.93	33.01	PASS
HSUPA Band2 Subtest5	9538	1907.6	17.98	-2.8	15.18	33.01	PASS

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
WCDMA Band4	1312	1712.4	15.88	-3.3	12.58	30	PASS
WCDMA Band4	1450	1740	15.77	-3.3	12.47	30	PASS
WCDMA Band4	1513	1752.6	15.73	-3.3	12.43	30	PASS
HSDPA Band4 Subtest1	1312	1712.4	14.93	-3.3	11.63	30	PASS
HSDPA Band4 Subtest2	1312	1712.4	14.58	-3.3	11.28	30	PASS
HSDPA Band4 Subtest3	1312	1712.4	13.51	-3.3	10.21	30	PASS
HSDPA Band4 Subtest4	1312	1712.4	13.85	-3.3	10.55	30	PASS
HSDPA Band4 Subtest1	1450	1740	14.84	-3.3	11.54	30	PASS
HSDPA Band4 Subtest2	1450	1740	14.23	-3.3	10.93	30	PASS
HSDPA Band4 Subtest3	1450	1740	13.03	-3.3	9.73	30	PASS
HSDPA Band4 Subtest4	1450	1740	13.44	-3.3	10.14	30	PASS
HSDPA Band4 Subtest1	1513	1752.6	14.80	-3.3	11.50	30	PASS
HSDPA Band4 Subtest2	1513	1752.6	14.23	-3.3	10.93	30	PASS
HSDPA Band4 Subtest3	1513	1752.6	13.36	-3.3	10.06	30	PASS
HSDPA Band4 Subtest4	1513	1752.6	13.22	-3.3	9.92	30	PASS
HSUPA Band4 Subtest1	1312	1712.4	14.55	-3.3	11.25	30	PASS
HSUPA Band4 Subtest2	1312	1712.4	14.78	-3.3	11.48	30	PASS
HSUPA Band4 Subtest3	1312	1712.4	13.39	-3.3	10.09	30	PASS
HSUPA Band4 Subtest4	1312	1712.4	14.91	-3.3	11.61	30	PASS
HSUPA Band4 Subtest5	1312	1712.4	13.49	-3.3	10.19	30	PASS
HSUPA Band4 Subtest1	1450	1740	14.66	-3.3	11.36	30	PASS
HSUPA Band4 Subtest2	1450	1740	14.69	-3.3	11.39	30	PASS
HSUPA Band4 Subtest3	1450	1740	13.42	-3.3	10.12	30	PASS
HSUPA Band4 Subtest4	1450	1740	14.82	-3.3	11.52	30	PASS
HSUPA Band4 Subtest5	1450	1740	14.24	-3.3	10.94	30	PASS
HSUPA Band4 Subtest1	1513	1752.6	14.55	-3.3	11.25	30	PASS
HSUPA Band4 Subtest2	1513	1752.6	14.65	-3.3	11.35	30	PASS
HSUPA Band4 Subtest3	1513	1752.6	13.14	-3.3	9.84	30	PASS
HSUPA Band4 Subtest4	1513	1752.6	14.79	-3.3	11.49	30	PASS
HSUPA Band4 Subtest5	1513	1752.6	14.13	-3.3	10.83	30	PASS

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	Verdict
WCDMA Band5	4132	826.4	23.94	-2.1	19.69	38.45	PASS
WCDMA Band5	4182	836.4	23.85	-2.1	19.60	38.45	PASS
WCDMA Band5	4233	846.6	24.10	-2.1	19.85	38.45	PASS
HSDPA Band5 Subtest1	4132	826.4	23.00	-2.1	18.75	38.45	PASS
HSDPA Band5 Subtest2	4132	826.4	22.50	-2.1	18.25	38.45	PASS
HSDPA Band5 Subtest3	4132	826.4	21.85	-2.1	17.60	38.45	PASS
HSDPA Band5 Subtest4	4132	826.4	21.20	-2.1	16.95	38.45	PASS
HSDPA Band5 Subtest1	4182	836.4	22.92	-2.1	18.67	38.45	PASS
HSDPA Band5 Subtest2	4182	836.4	22.34	-2.1	18.09	38.45	PASS
HSDPA Band5 Subtest3	4182	836.4	21.82	-2.1	17.57	38.45	PASS
HSDPA Band5 Subtest4	4182	836.4	21.46	-2.1	17.21	38.45	PASS
HSDPA Band5 Subtest1	4233	846.6	23.16	-2.1	18.91	38.45	PASS
HSDPA Band5 Subtest2	4233	846.6	22.57	-2.1	18.32	38.45	PASS
HSDPA Band5 Subtest3	4233	846.6	21.40	-2.1	17.15	38.45	PASS
HSDPA Band5 Subtest4	4233	846.6	21.78	-2.1	17.53	38.45	PASS
HSUPA Band5 Subtest1	4132	826.4	21.76	-2.1	17.51	38.45	PASS
HSUPA Band5 Subtest2	4132	826.4	22.84	-2.1	18.59	38.45	PASS
HSUPA Band5 Subtest3	4132	826.4	21.07	-2.1	16.82	38.45	PASS
HSUPA Band5 Subtest4	4132	826.4	23.00	-2.1	18.75	38.45	PASS
HSUPA Band5 Subtest5	4132	826.4	21.30	-2.1	17.05	38.45	PASS
HSUPA Band5 Subtest1	4182	836.4	22.76	-2.1	18.51	38.45	PASS
HSUPA Band5 Subtest2	4182	836.4	22.72	-2.1	18.47	38.45	PASS
HSUPA Band5 Subtest3	4182	836.4	21.45	-2.1	17.20	38.45	PASS
HSUPA Band5 Subtest4	4182	836.4	22.90	-2.1	18.65	38.45	PASS
HSUPA Band5 Subtest5	4182	836.4	22.29	-2.1	18.04	38.45	PASS
HSUPA Band5 Subtest1	4233	846.6	22.86	-2.1	18.61	38.45	PASS
HSUPA Band5 Subtest2	4233	846.6	22.98	-2.1	18.73	38.45	PASS
HSUPA Band5 Subtest3	4233	846.6	21.98	-2.1	17.73	38.45	PASS
HSUPA Band5 Subtest4	4233	846.6	23.18	-2.1	18.93	38.45	PASS
HSUPA Band5 Subtest5	4233	846.6	22.53	-2.1	18.28	38.45	PASS

Frequency stability

UMTS Band 2 /1880MHz					
Temperature (°C)	**Voltage (Volt)**	**Freq. Dev. (Hz)**	**Freq. Dev. (ppm)**	**Limit**	**Result**
50	Normal Voltage	-2.85	-0.002	Within Authorized Band	PASS
40		2.91	0.002		
30		-3.15	-0.002		
20		-7.50	-0.004		
10		-2.63	-0.001		
0		2.99	0.002		
-10		-2.80	-0.001		
-20		2.71	0.001		
-30		3.08	0.002		
20	Maximum Voltage	-3.05	-0.002		
20	BEP	3.02	0.002		

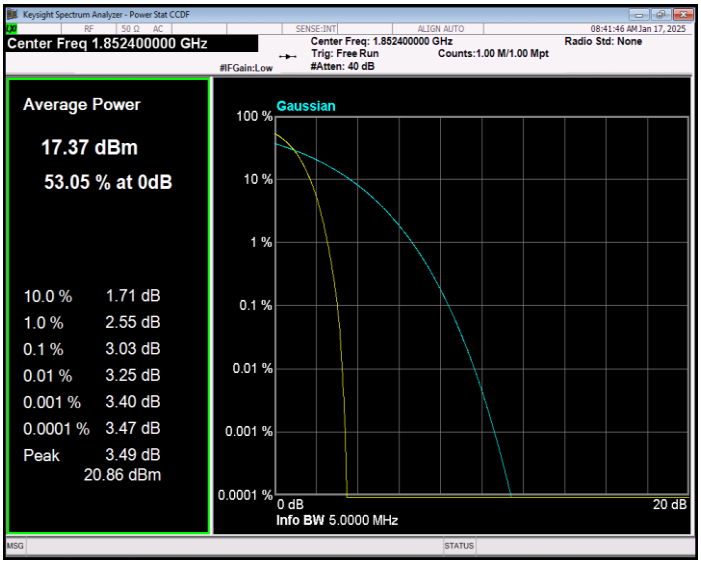
UMTS Band 4 /1740MHz					
Temperature (°C)	**Voltage (Volt)**	**Freq. Dev. (Hz)**	**Freq. Dev. (ppm)**	**Limit**	**Result**
50	Normal Voltage	-1.53	-0.001	Within Authorized Band	PASS
40		1.55	0.001		
30		-1.72	-0.001		
20		-5.11	-0.003		
10		1.74	0.001		
0		2.00	0.001		
-10		1.54	0.001		
-20		-1.77	-0.001		
-30		-1.88	-0.001		
20	Maximum Voltage	1.80	0.001		
20	BEP	-1.65	-0.001		

UMTS Band 5 / 836.6MHz					
Temperature (°C)	**Voltage (Volt)**	**Freq. Dev. (Hz)**	**Freq. Dev. (ppm)**	**Limit**	**Result**
50	Normal Voltage	-2.19	-0.003	2.5ppm	PASS
40		2.16	0.003		
30		2.02	0.002		
20		-5.62	-0.007		
10		-1.69	-0.002		
0		-1.81	-0.002		
-10		2.04	0.002		
-20		2.13	0.003		
-30		-2.13	-0.003		
20	Maximum Voltage	1.73	0.002		
20	BEP	-1.88	-0.002		

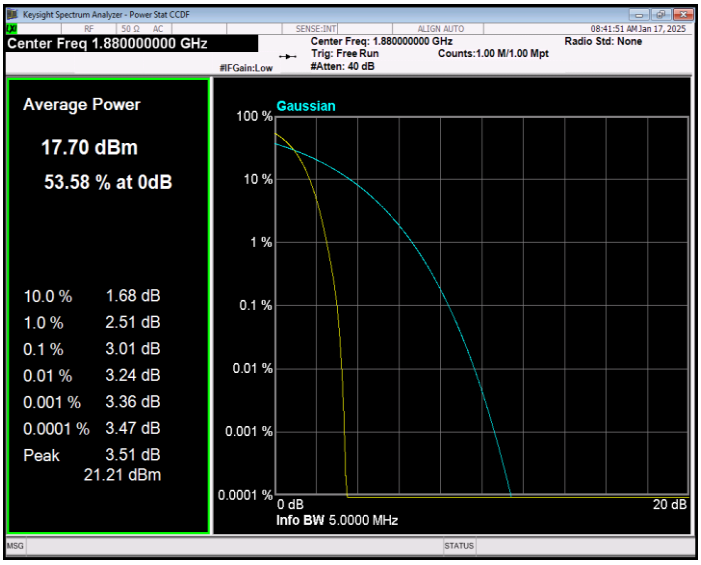
Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
WCDMA Band2	9262	1852.4	3.03	13	PASS
WCDMA Band2	9400	1880	3.01	13	PASS
WCDMA Band2	9538	1907.6	3.06	13	PASS
WCDMA Band4	1312	1712.4	3.03	13	PASS
WCDMA Band4	1450	1740	3.01	13	PASS
WCDMA Band4	1513	1752.6	2.99	13	PASS
WCDMA Band5	4132	826.4	3.11	13	PASS
WCDMA Band5	4182	836.4	3.16	13	PASS
WCDMA Band5	4233	846.6	3.13	13	PASS

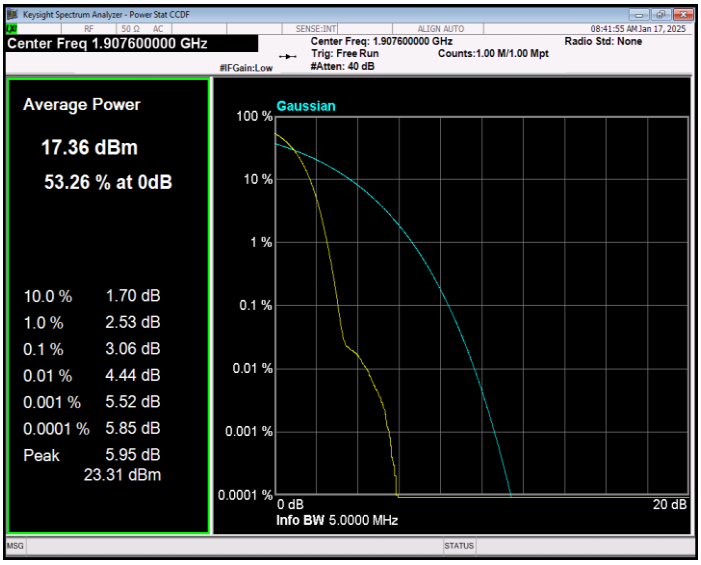
WCDMA Band2 Channel=9262



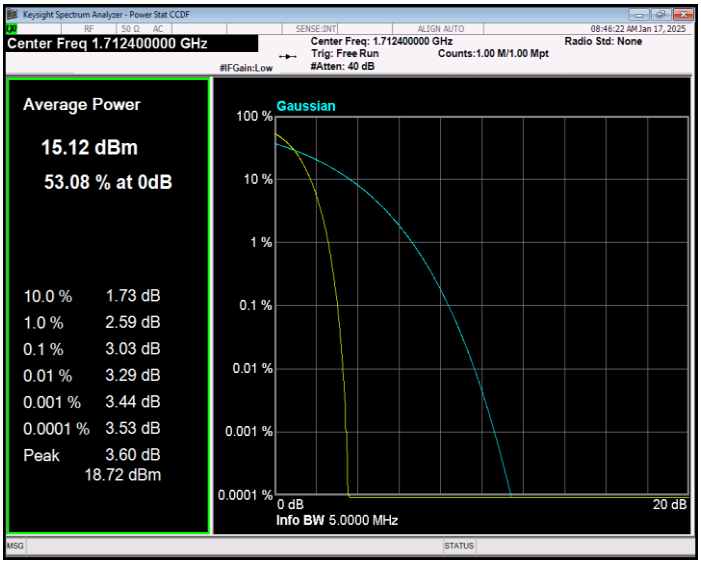
WCDMA Band2 Channel=9400



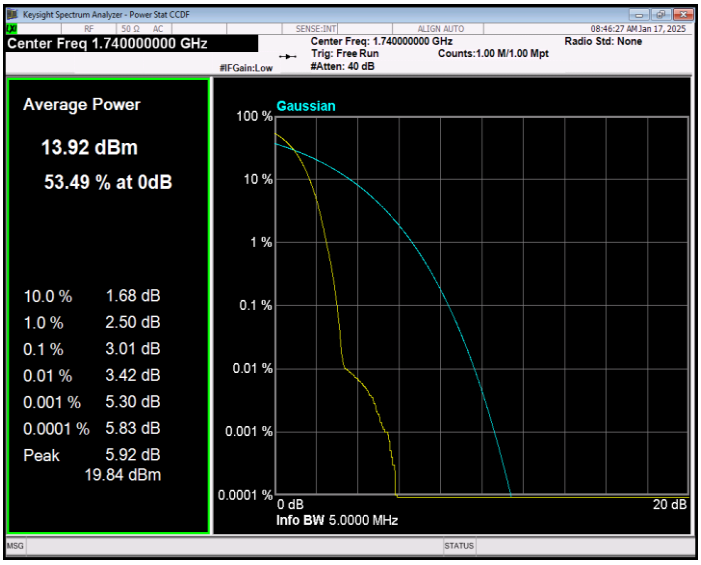
WCDMA Band2 Channel=9538



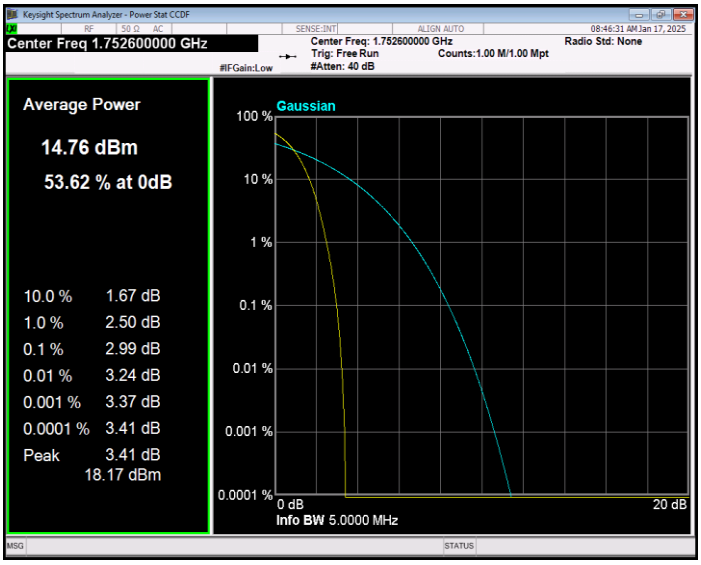
WCDMA Band4 Channel=1312



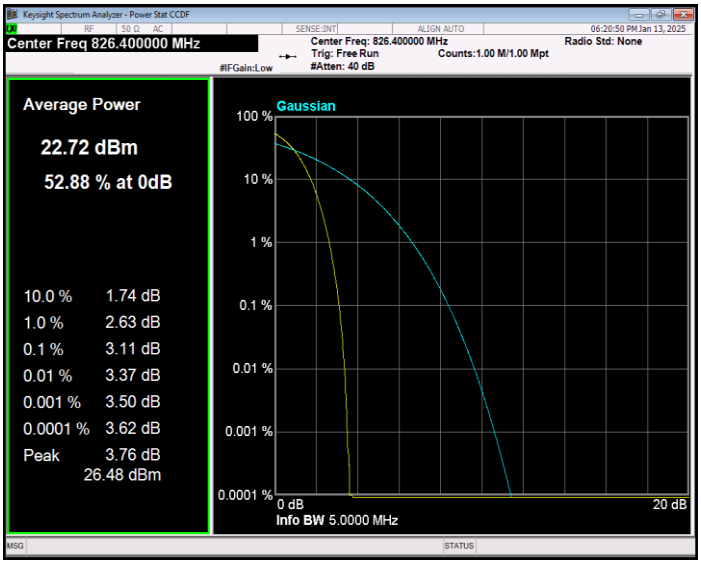
WCDMA Band4 Channel=1450



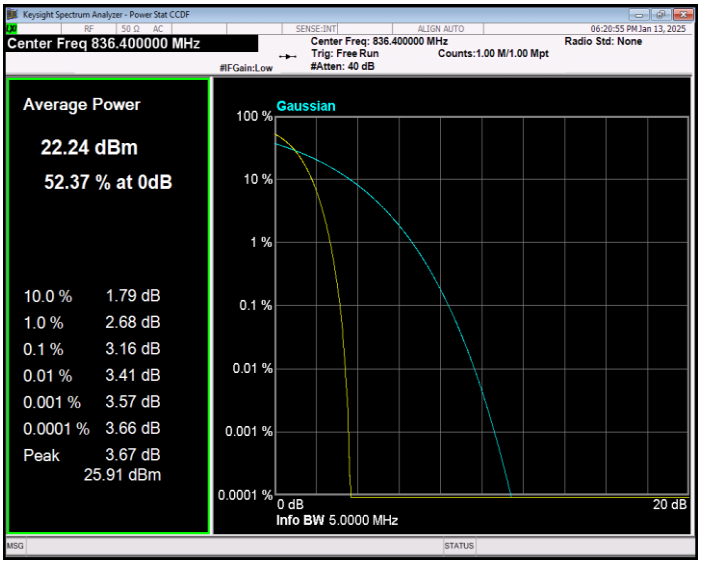
WCDMA Band4 Channel=1513



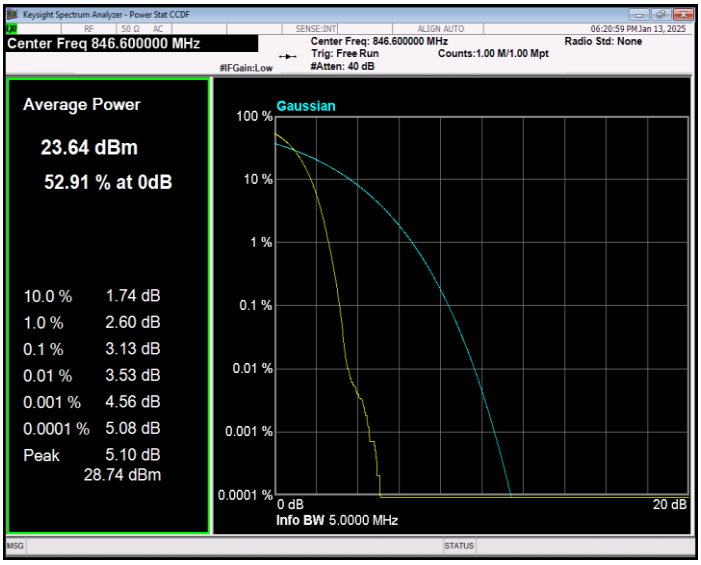
WCDMA Band5 Channel=4132



WCDMA Band5 Channel=4182



WCDMA Band5 Channel=4233



Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
WCDMA Band2	9262	1852.4	4.165	4.694	PASS
WCDMA Band2	9400	1880	4.165	4.707	PASS
WCDMA Band2	9538	1907.6	4.157	4.700	PASS
WCDMA Band4	1312	1712.4	4.160	4.699	PASS
WCDMA Band4	1450	1740	4.175	4.722	PASS
WCDMA Band4	1513	1752.6	4.165	4.705	PASS
WCDMA Band5	4132	826.4	4.156	4.689	PASS
WCDMA Band5	4182	836.4	4.170	4.696	PASS
WCDMA Band5	4233	846.6	4.189	4.710	PASS