

TEST REPORT

FCC ID	2AI62-W105	
Test Report No	TCT250407E055	
Date of issue	Jul. 03, 2025	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name	SOTEN TECHNOLOGY (HONGKONG) CO., LIMITED	
Address	FLAT/RM A10 9/F SILVERCORP INTERNATIONAL TOWER, 707-713 NATHAN ROAD MONGKOK KL, Hong Kong	
Manufacturer's name ...	Shenzhen SOTEN Technology Co., Ltd	
Address	10th Floor, 2nd Building, BaiWang Research and development building, No. 5308 Shahe west road, Xili, Nanshan district, ShenZhen, China	
Standard(s)	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part22 FCC CFR Title 47 Part24 FCC CFR Title 47 Part27	
Product Name	RUGGED TABLET PC	
Trade Mark	HUGEROCK	
Model/Type reference	W105	
Rating(s)	Refer to EUT description of page 3	
Date of receipt of test item	Apr. 07, 2025	
Date (s) of performance of test	Apr. 07, 2025 ~ Jul. 03, 2025	
Tested by (+signature) ...	Aaron MO	
Check by (+signature)	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	RUGGED TABLET PC
Model/Type reference.....:	W105
Sample Number.....:	TCT250407E032-0101
3G Version	WCDMA: R99 HSDPA: Release 5 HSUPA: Release 6
Tx Frequency	GSM/GPRS/EGPRS 850: 824.2MHz ~ 848.8MHz GSM/GPRS/EGPRS 1900: 1850.2MHz ~ 1909.8MHz WCDMA Band V: 826.4MHz ~ 846.6MHz WCDMA Band IV: 1712.4MHz ~ 1752.6MHz WCDMA Band II: 1852.4MHz ~ 1907.6MHz
Rx Frequency	GSM/GPRS/EGPRS 850: 869.2MHz ~ 893.8MHz GSM/GPRS/EGPRS 1900: 1930.2MHz ~ 1989.8MHz WCDMA Band V: 871.4MHz ~ 891.6MHz WCDMA Band IV: 2112.4MHz ~ 2152.6MHz WCDMA Band II: 1932.4MHz ~ 1987.6MHz
Maximum Output Power to Antenna.....:	GSM850: 33.41dBm GSM1900: 29.82dBm GPRS850: 33.12dBm GPRS1900: 29.84dBm EGPRS850: 28.26dBm EGPRS1900: 28.33dBm WCDMA Band V: 23.33dBm WCDMA Band IV: 23.30dBm WCDMA Band II: 23.62dBm
99% Occupied Bandwidth.....:	GSM850: 248KGXW GSM1900: 246KGXW GPRS850 Class 8: 246KGXW GPRS1900 Class 8: 241KGXW EGPRS850 Class 8: 246KG7W EGPRS1900 Class 8: 241KG7W WCDMA Band V RMC 12.2Kbps: 4M17F9W WCDMA Band IV RMC 12.2Kbps: 4M16F9W WCDMA Band II RMC 12.2Kbps: 4M16F9W WCDMA Band V HSDPA: 4M18F9W WCDMA Band IV HSDPA: 4M19F9W WCDMA Band II HSDPA: 4M19F9W WCDMA Band V HSUPA: 4M18F9W WCDMA Band IV HSUPA: 4M17F9W WCDMA Band II HSUPA: 4M18F9W
Type of Modulation.....:	GSM/GPRS: GMSK EGPRS: 8PSK WCDMA/HSDPA/HSUPA: QPSK

Antenna Type.....:	PIFA Antenna
Antenna Gain.....:	GSM/GPRS/EGPRS 850: 0.35dBi GSM/GPRS/EGPRS 1900: 1.88dBi WCDMA Band V: 0.35dBi WCDMA Band IV: 0.89dBi WCDMA Band II: 1.88dBi
Rating(s).....:	Adapter Information: Model: JHD-AP048U-BA-PD05 Input: AC 100-240V, 50/60Hz, 1.2A Output: DC 5V, 3A/ DC 9V, 3A/ DC 12V, 3A/ DC 15V, 3A/ DC 20V, 2.25A Rechargeable Li-ion Battery DC 7.6V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

1.3. Operation Frequency

GSM 850		PCS1900	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
128	824.20	512	1850.20
129	824.40	513	1850.40
....			
189	836.40	660	1879.80
190	836.60	661	1880.00
191	836.80	662	1880.20
...	...	...	...
250	848.60	809	1909.60
251	848.80	810	1909.80

WCDMA Band IV		WCDMA Band V		WCDMA Band II	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
1312	1712.4	4132	826.40	9262	1852.40
....		4133	826.60	9263	1852.60
....					
....		4182	836.40	9399	1879.80
1413	1732.6	4183	836.60	9400	1880.00
....		4184	836.80	9401	1880.20
....		...	...	...	...
1513	1752.6	4233	846.60	9538	1907.60

2. Test Result Summary

Requirement	CFR 47 Section	Result
Conducted Output Power	§22.913; §2.1046 §24.232; §27.50(d)	PASS
Peak-to-Average Ratio	§2.1046; §24.232(d) §22.913; §27.50(d)	PASS
Effective Radiated Power	§2.1046; §22.913(a) §24.232; §27.50(d)	PASS
Equivalent Isotropic Radiated Power	§2.1046; §22.913(a) §24.232; §27.50(d)	PASS
Occupied Bandwidth	§2.1049	PASS
Band Edge	§2.1051 §22.917(a) §24.238(a) §27.53(g)	PASS
Conducted Spurious Emission	§2.1051; §22.917 §24.238; §27.53(h)	PASS
Field Strength of Spurious Radiation	§2.1053; §22.917(a) §24.238; §27.53(g)	PASS
Frequency Stability for Temperature & Voltage	§2.1055; §22.355 §24.235; §27.54	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar

Keep the EUT in communication with CMU200 and select channel with modulation
All modes and data rates and positions were investigated.

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

Test Mode		
Band	Radiated TCs	Conducted TCs
GSM 850	GSM Link GPRS class 12 Link EGPRS class 12 Link	GSM Link GPRS class 12 Link EGPRS class 12 Link
PCS 1900	GSM Link GPRS class 12 Link EGPRS class 12 Link	GSM Link GPRS class 12 Link EGPRS class 12 Link
WCDMA Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link HSDPA Link HSUPA Link
WCDMA Band IV	RMC 12.2Kbps Link	RMC 12.2Kbps Link HSDPA Link HSUPA Link
WCDM Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link HSDPA Link HSUPA Link

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power. Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission. The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarization. The emissions worst-case (Z axis) are shown in Test Results of the following pages.

3.2. Description of Support Units

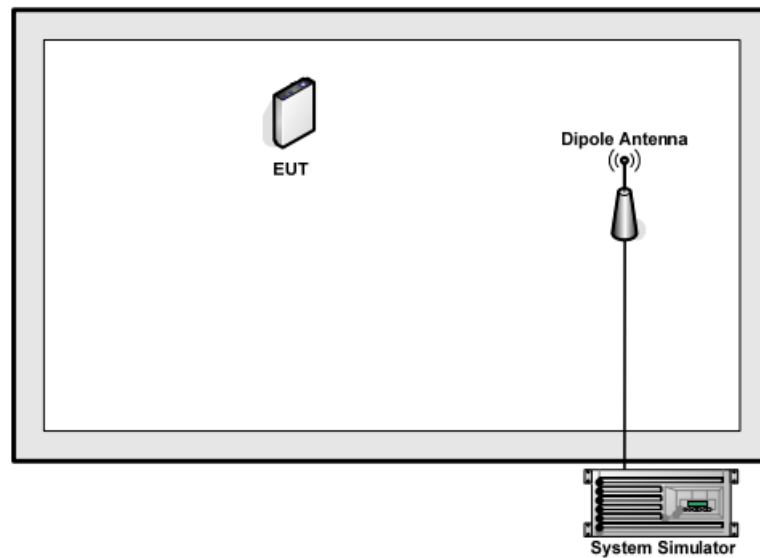
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3.3. Configuration of Tested System



3.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss factor. *Offset = RF cable loss + attenuator factor.*

The following shows an offset computation example with RF cable loss 3 dB and a 5dB attenuator.

Example: $\text{Offset (dB)} = \text{RF cable loss (dB)} + \text{attenuator factor (dB)}$
 $= 8(\text{dB})$

4. Facilities and Accreditations

4.1. Facilities

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

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- A2LA-No.: 4320.01

SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

5. Measurement Uncertainty

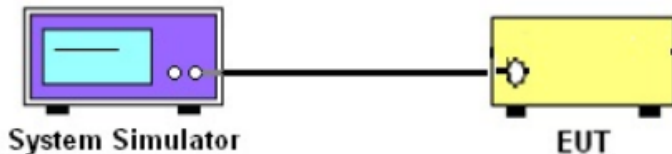
The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	Frequency deviation	0.48 kHz
5	Occupied bandwidth	57.74 kHz
6	All emissions, radiated(<1 GHz)	± 4.56 dB
7	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
8	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB
9	Temperature	$\pm 0.1^{\circ}\text{C}$
10	Humidity	$\pm 1.0\%$

6. Test Results and Measurement Data

6.1. Conducted Output Power Measurement

6.1.1. Test Specification

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b) FCC part 27.50(d);
Test Method:	FCC KDB 971168 D01 v03r01
Operation mode:	Refer to item 3.1
Limits:	GSM 850: 7W PCS 1900: 2W WCDMA Band V:7W WCDMA Band II: 2W WCDMA Band IV:1W
Test Setup:	 The diagram illustrates the test setup. On the left is a purple box labeled 'System Simulator' with a screen and two buttons. A black line connects it to a yellow box on the right labeled 'EUT' (Equipment Under Test), which has a circular port on its left side.
Test Procedure:	1. The transmitter output port was connected to the system simulator. 2. Set EUT at maximum power through system simulator. 3. Select lowest, middle, and highest channels for each band and different modulation. 4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.
Test Result:	PASS

6.1.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
System simulator	R&S	CMU200	110188	Jun. 27, 2024	Jun. 26, 2025
Power detector box	MWRFTest	MW100-RFCB	MW210531TCT	Jan.21, 2025	Jan. 20, 2026

6.1.3. Test data

Conducted Power Measurement Results:

Average Conducted Power (*Unit: dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM	33.13	32.85	33.41	29.10	29.71	29.82
GPRS class8	33.12	32.85	32.94	29.74	29.71	29.84
GPRS class10	32.57	32.12	32.25	28.75	28.85	28.95
GPRS class11	30.48	30.17	29.88	26.23	26.64	26.61
GPRS class12	28.04	28.01	27.93	25.11	25.32	25.42
EGPRS class8	28.25	28.22	28.26	28.12	28.33	27.91
EGPRS class10	25.81	25.87	26.12	26.31	26.37	26.35
EGPRS class11	24.27	24.34	24.35	24.53	24.54	24.32
EGPRS class12	22.45	22.44	22.16	22.52	21.91	21.95
Average Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency(MHz)	826.4	836.4	846.6	1852.4	1880.0	1907.6
WCDMA RMC 12.2K	22.17	23.33	22.25	23.21	23.58	23.62
HSDPA Subtest-1	22.22	22.53	22.32	22.37	22.50	22.46
HSDPA Subtest-2	21.71	21.73	21.50	21.85	21.98	21.82
HSDPA Subtest-3	21.77	21.84	21.61	21.84	21.95	21.92
HSDPA Subtest-4	21.46	21.47	21.31	21.45	21.51	21.65
HSUPA Subtest-1	21.75	21.84	21.75	22.04	22.18	22.01
HSUPA Subtest-2	21.09	21.24	21.12	21.32	21.43	21.31
HSUPA Subtest-3	21.38	21.44	21.31	21.68	21.76	21.65
HSUPA Subtest-4	20.77	20.94	20.79	21.07	21.36	21.15
HSUPA Subtest-5	21.01	21.25	21.04	21.28	21.44	21.34

Conducted Power (*Unit: dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency(MHz)	1712.4	1732.6	1752.6
WCDMA RMC 12.2K	23.21	23.30	23.11
HSDPA Subtest-1	22.32	22.35	22.42
HSDPA Subtest-2	21.81	21.85	21.97
HSDPA Subtest-3	21.84	21.82	21.95
HSDPA Subtest-4	21.58	21.55	21.64
HSUPA Subtest-1	21.98	21.96	22.07
HSUPA Subtest-2	21.24	21.38	21.33
HSUPA Subtest-3	21.54	21.65	21.69
HSUPA Subtest-4	20.92	21.04	21.04
HSUPA Subtest-5	21.17	21.25	21.30

6.2. Peak to Average Ratio

6.2.1. Test Specification

Test Requirement:	FCC part 24.232(d); FCC part 22.913; FCC part 27.50(d);
Test Method:	ANSI C63.26:2020
Operation mode:	Refer to item 3.1
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	<pre> graph LR SS[System Simulator] --- PD[Power Divider] SA[Spectrum Analyzer] --- PD PD --- EUT[EUT] </pre>
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03r01 Section 5.7.1. 2. The EUT was connected to spectrum analyzer and system simulator via a power divider. 3. Set EUT to transmit at maximum output power. 4. For GSM/EGPRS operating modes, signal gating is implemented on the spectrum analyzer by triggering from the system simulator. 5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.
Test Result:	PASS

6.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
System simulator	R&S	CMU200	110188	Jun. 27, 2024	Jun. 26, 2025
System simulator	R&S	CMU200	110188	Jun. 26, 2025	Jun. 25, 2026
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025	Jun. 25, 2026
Power detector box	MWRFTest	MW100-RFCB	MW210531TCT	Jan. 21, 2025	Jan. 20, 2026

6.2.3. Test Data

Cellular Band			
Mode	GSM850		
Channel	128	190	251
Frequency (MHz)	824.2	836.4	848.8
Peak-to-Average Ratio (dB)	9.31	9.32	9.17

PCS Band			
Mode	GSM 1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	9.17	9.33	9.35

Cellular Band			
Mode	EGPRS 850		
Channel	128	190	251
Frequency (MHz)	824.2	836.6	848.8
Peak-to-Average Ratio (dB)	9.74	9.78	9.91

PCS Band			
Mode	EGPRS 1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	9.77	10.16	8.37

Cellular Band									
Mode	WCDMA Band V (RMC 12.2Kbps)			WCDMA Band IV (RMC 12.2Kbps)			WCDMA Band II (RMC 12.2Kbps)		
Channel	4132	4182	4233	1312	1413	1513	9262	9400	9538
Frequency (MHz)	826.4	836.4	846.6	1712.4	1732.6	1752.6	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	3.18	3.12	3.19	2.91	2.85	2.70	3.26	3.07	3.19

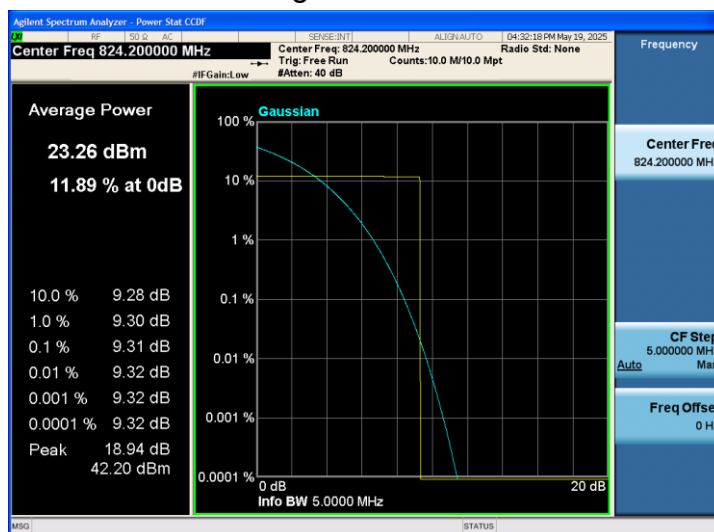
Cellular Band									
Mode	WCDMA Band V (HSDPA)			WCDMA Band IV (HSDPA)			WCDMA Band II (HSDPA)		
Channel	4132	4182	4233	1312	1413	1513	9262	9400	9538
Frequency (MHz)	826.4	836.4	846.6	1712.4	1732.6	1752.6	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	3.59	3.58	3.64	3.26	3.27	3.24	3.30	3.30	3.35

Cellular Band									
Mode	WCDMA Band V (HSUPA)			WCDMA Band IV (HSUPA)			WCDMA Band II (HSUPA)		
Channel	4132	4182	4233	1312	1413	1513	9262	9400	9538
Frequency (MHz)	826.4	836.4	846.6	1712.4	1732.6	1752.6	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	3.61	3.58	3.61	3.27	3.27	3.26	3.30	3.28	3.36

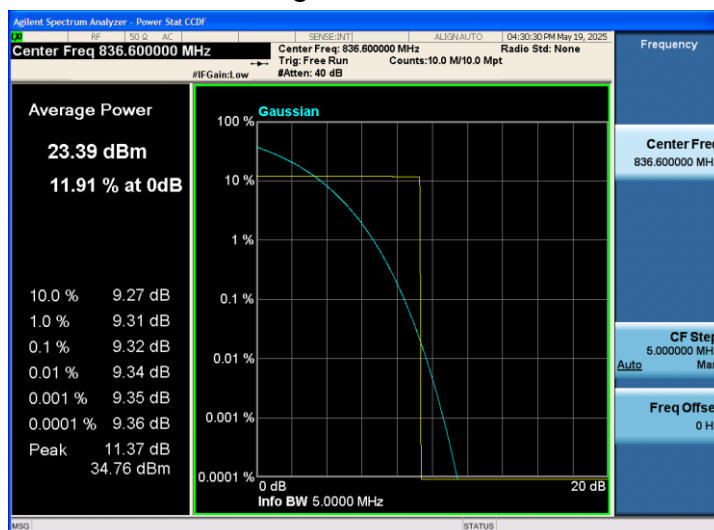
Test plots as follows:

GSM 850

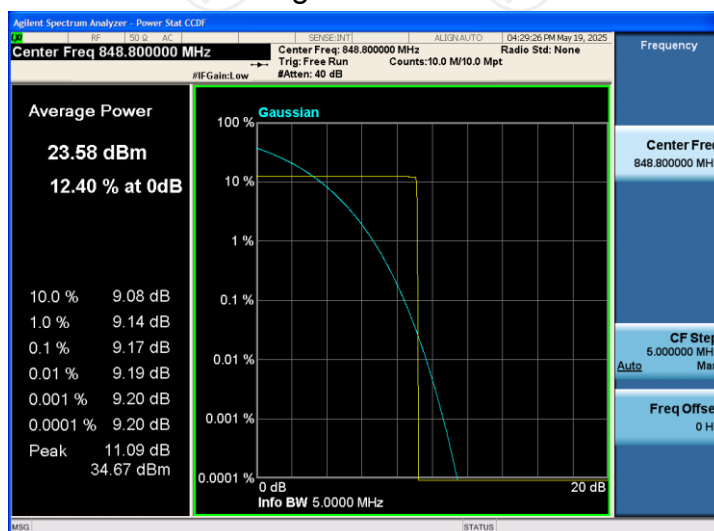
Peak-to-Average Ratio on Channel 128



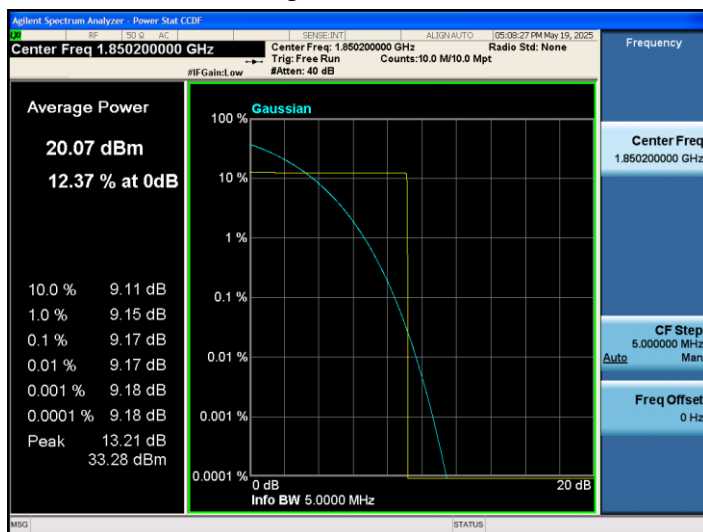
Peak-to-Average Ratio on Channel 190



Peak-to-Average Ratio on Channel 251



Peak-to-Average Ratio on Channel 512



Peak-to-Average Ratio on Channel 661

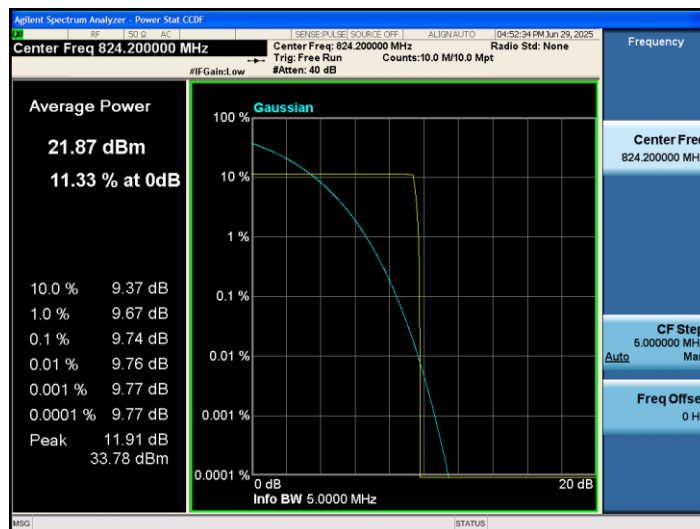


Peak-to-Average Ratio on Channel 810

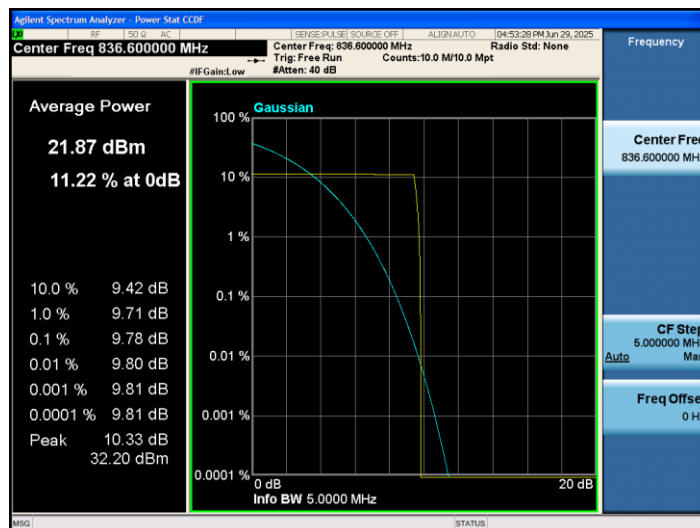


EGPRS 850

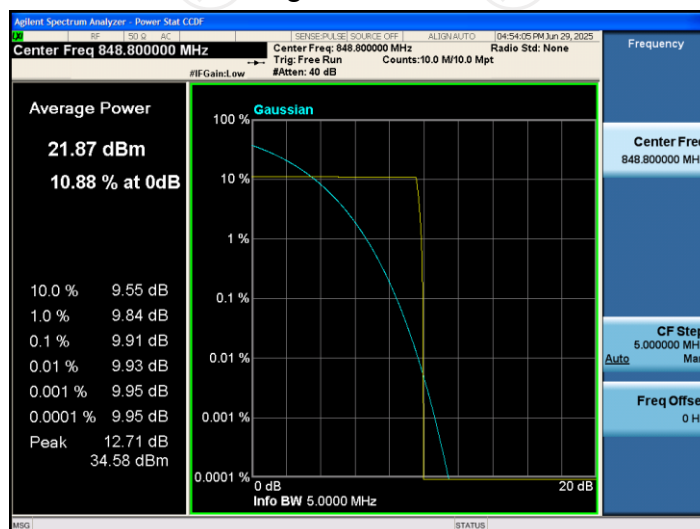
Peak-to-Average Ratio on Channel 128



Peak-to-Average Ratio on Channel 190

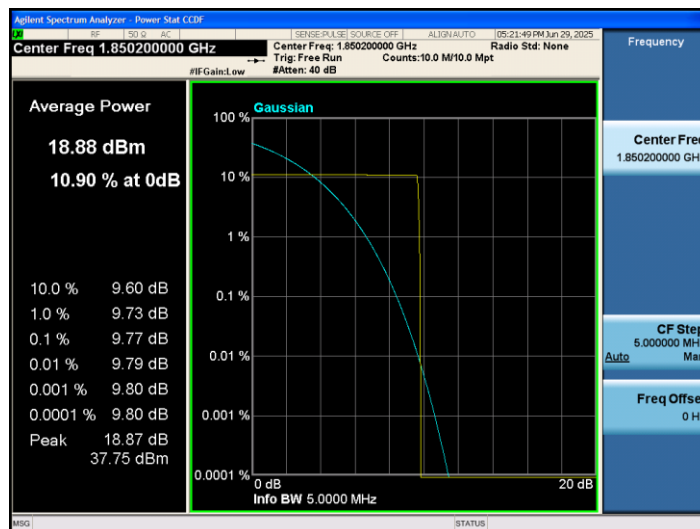


Peak-to-Average Ratio on Channel 251

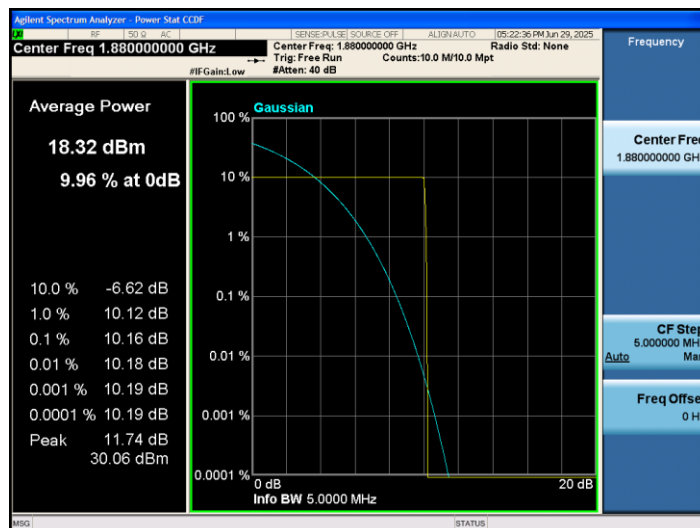


EGPRS 1900

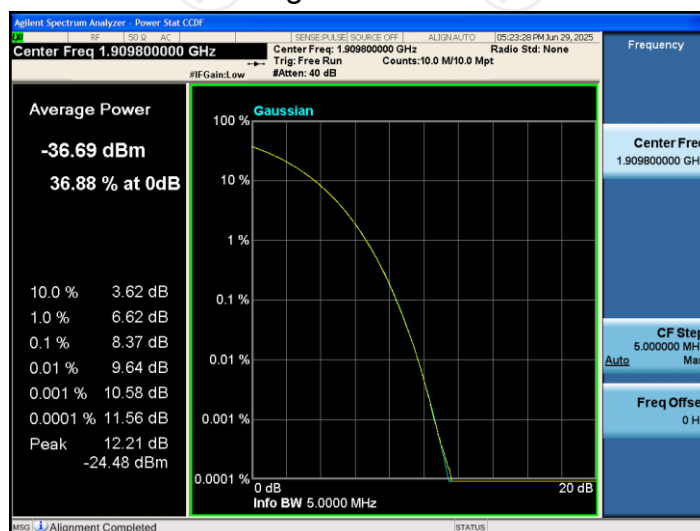
Peak-to-Average Ratio on Channel 512



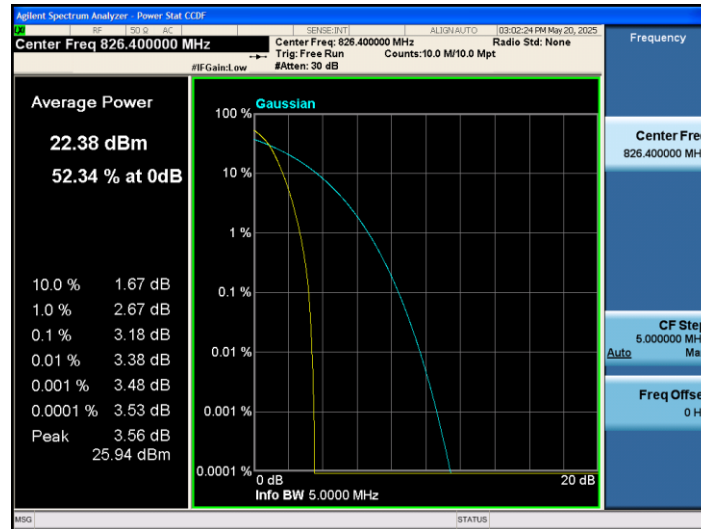
Peak-to-Average Ratio on Channel 661



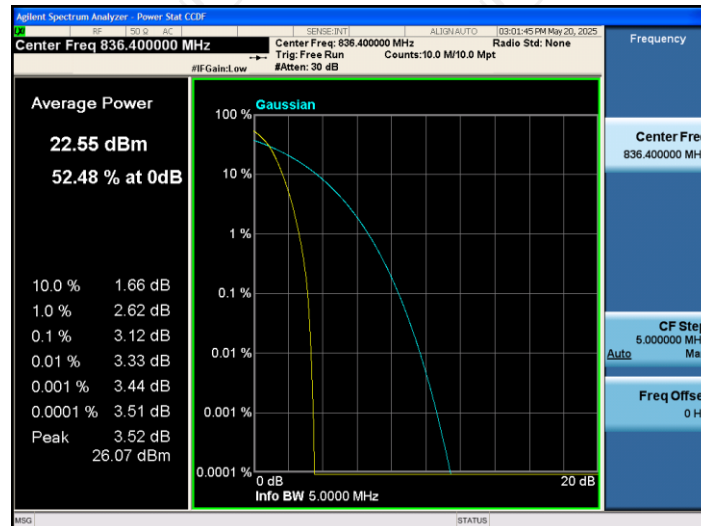
Peak-to-Average Ratio on Channel 810



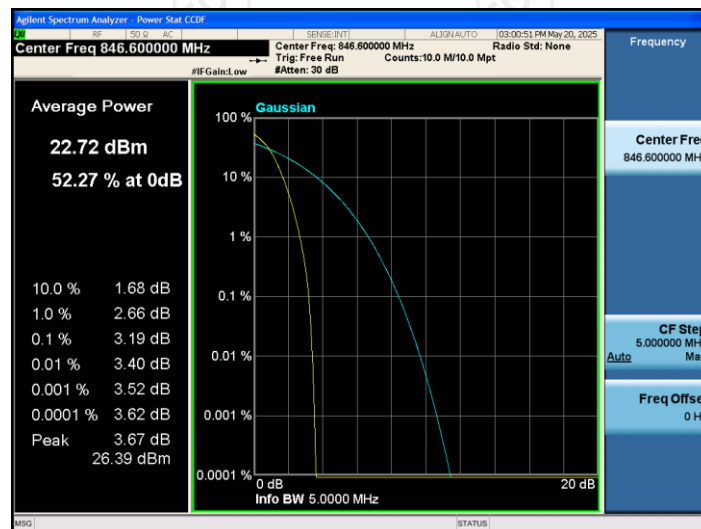
Peak-to-Average Ratio on Channel 4132



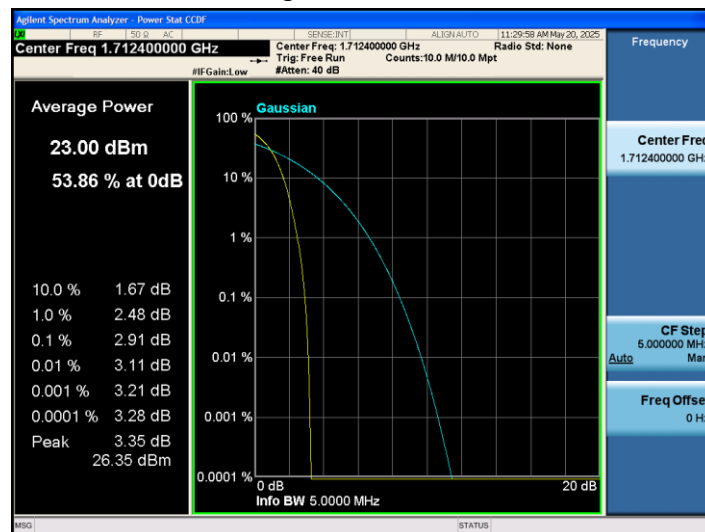
Peak-to-Average Ratio on Channel 4182



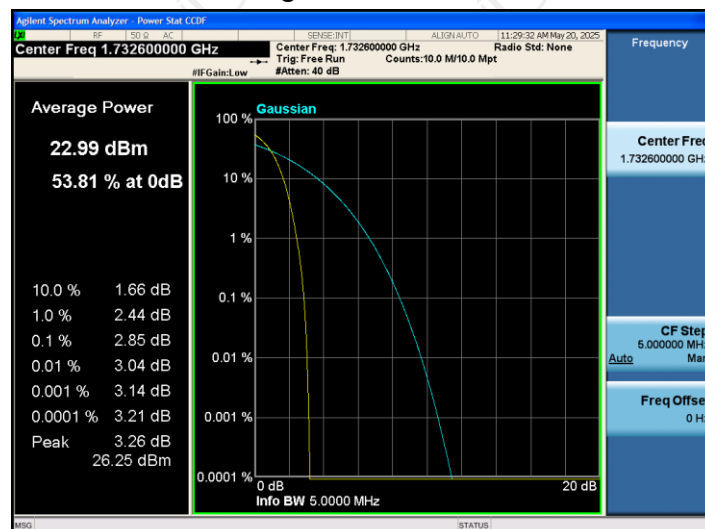
Peak-to-Average Ratio on Channel 4233



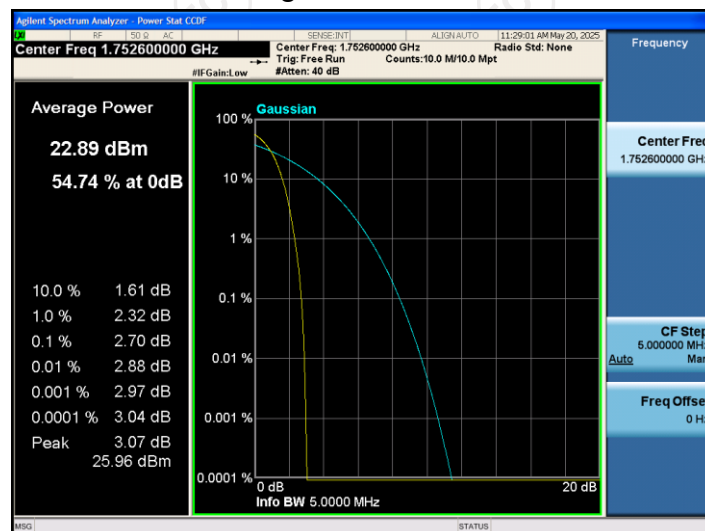
Peak-to-Average Ratio on Channel 1312



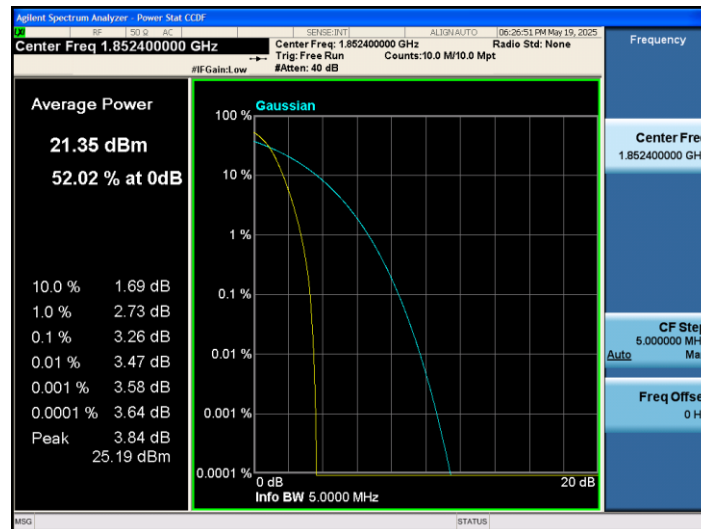
Peak-to-Average Ratio on Channel 1413



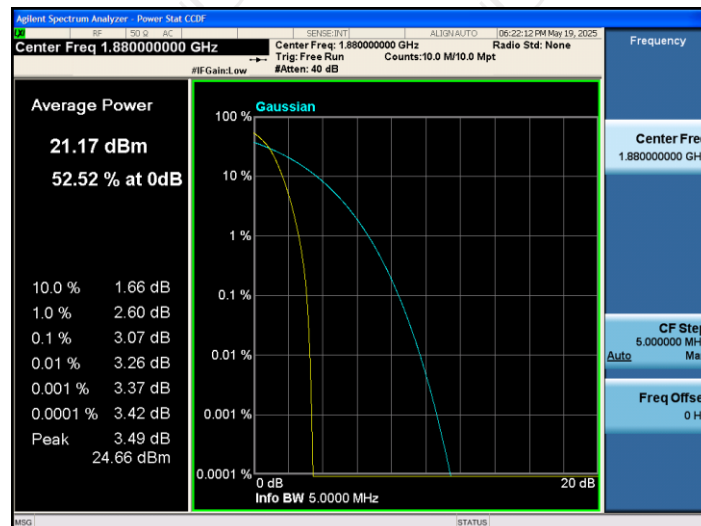
Peak-to-Average Ratio on Channel 1513



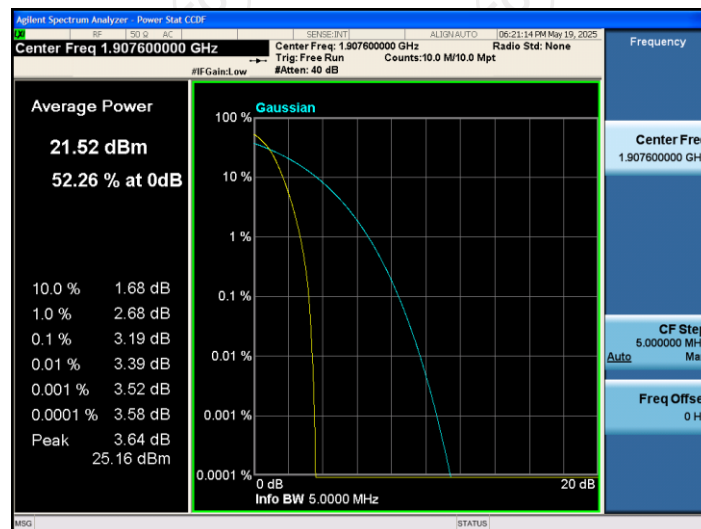
Peak-to-Average Ratio on Channel 9262



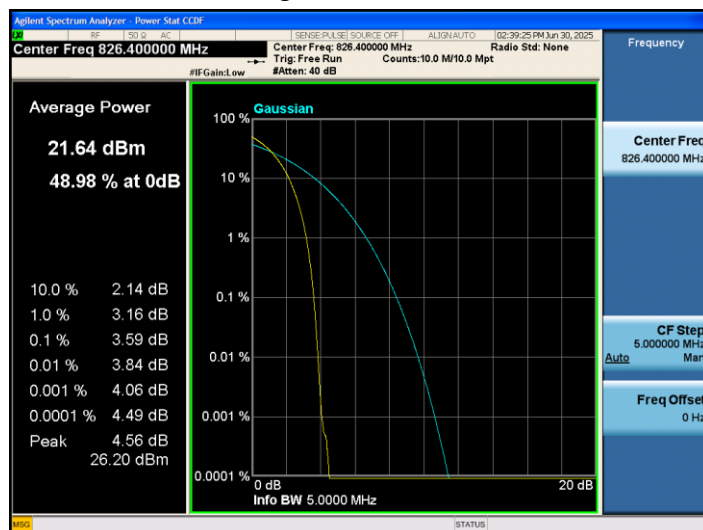
Peak-to-Average Ratio on Channel 9400



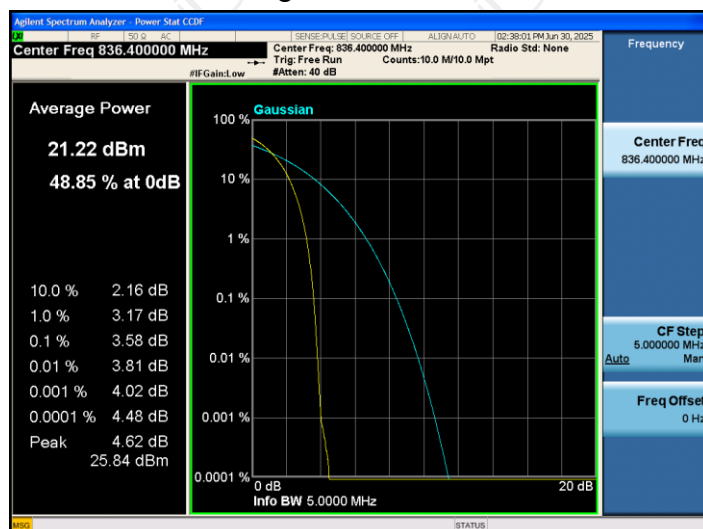
Peak-to-Average Ratio on Channel 9538



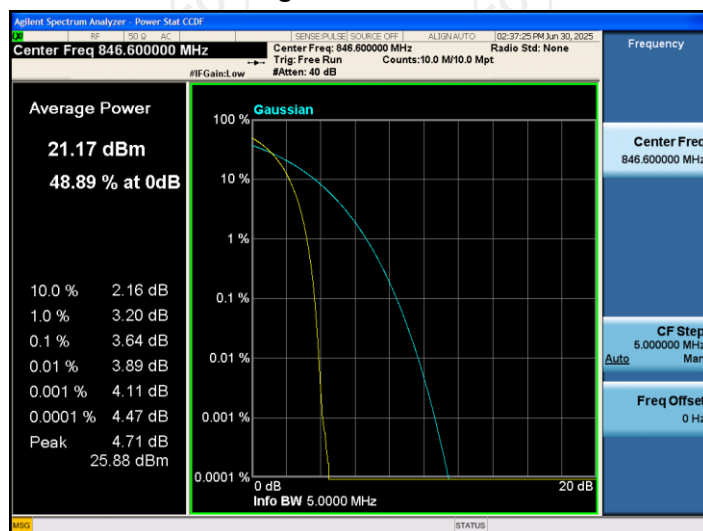
Peak-to-Average Ratio on Channel 4132



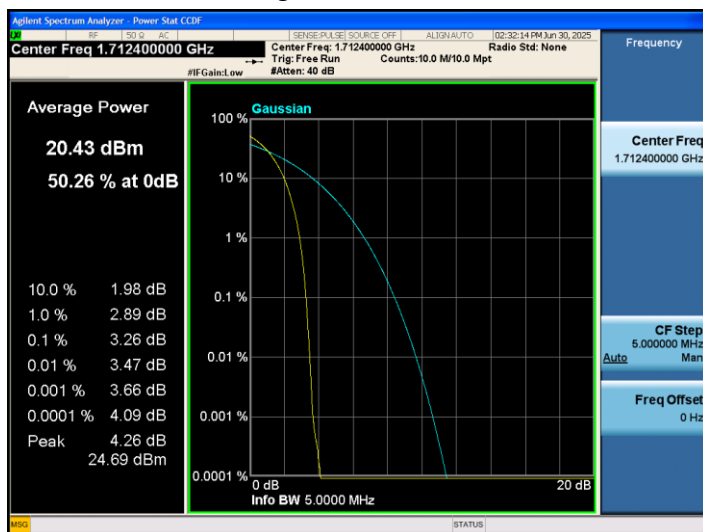
Peak-to-Average Ratio on Channel 4182



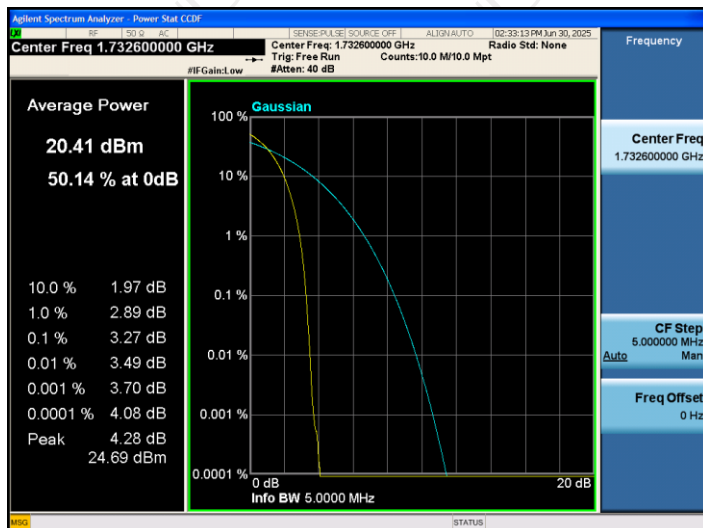
Peak-to-Average Ratio on Channel 4233



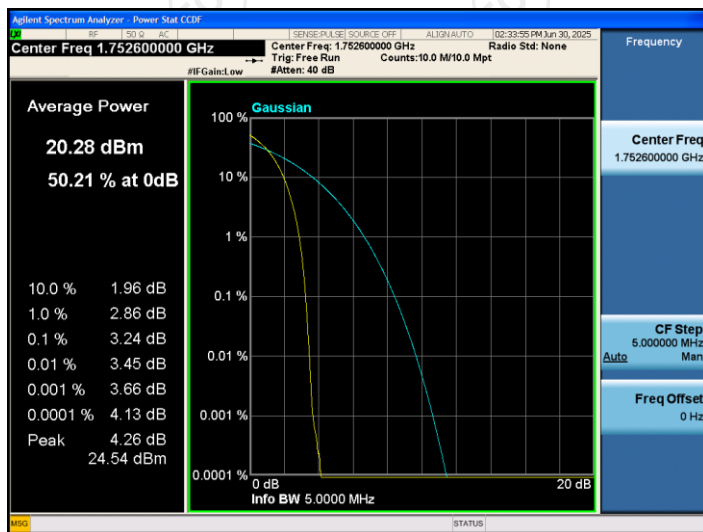
Peak-to-Average Ratio on Channel 1312



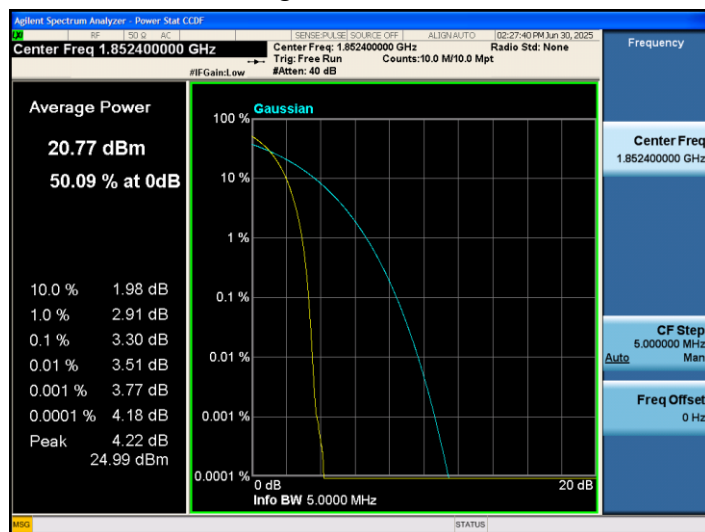
Peak-to-Average Ratio on Channel 1413



Peak-to-Average Ratio on Channel 1513



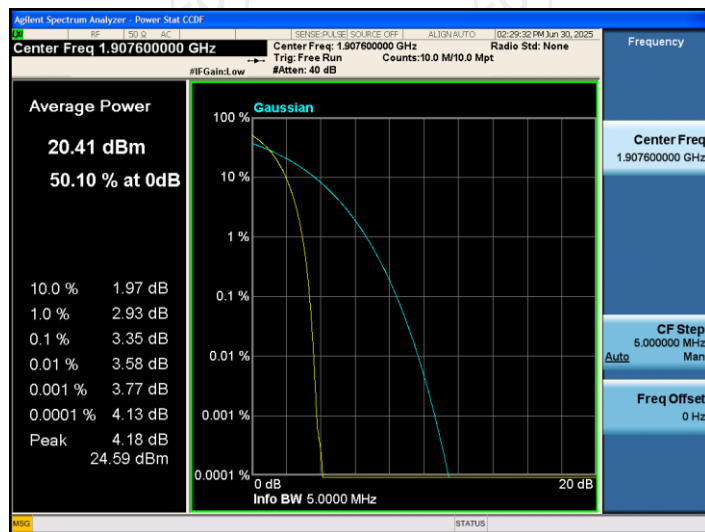
Peak-to-Average Ratio on Channel 9262



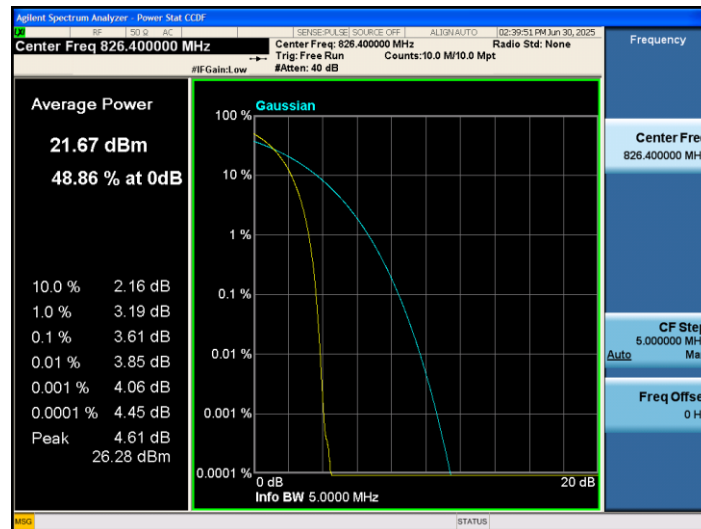
Peak-to-Average Ratio on Channel 9400



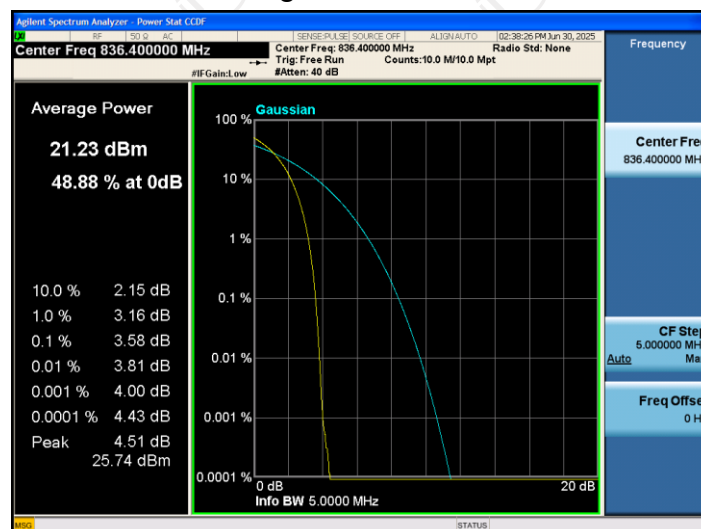
Peak-to-Average Ratio on Channel 9538



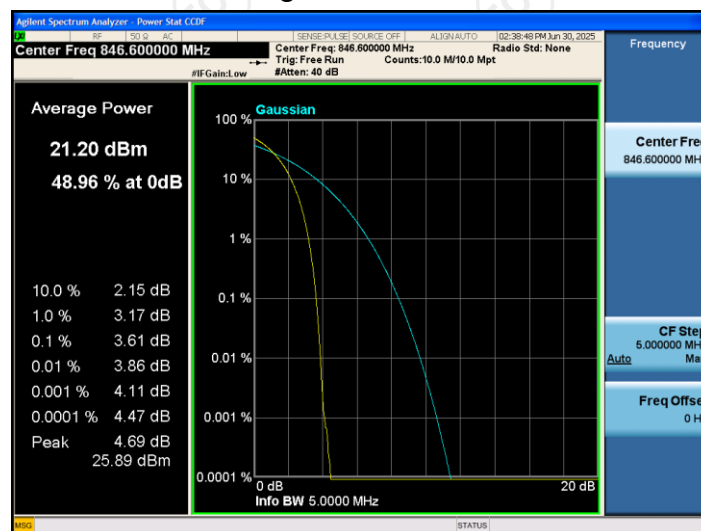
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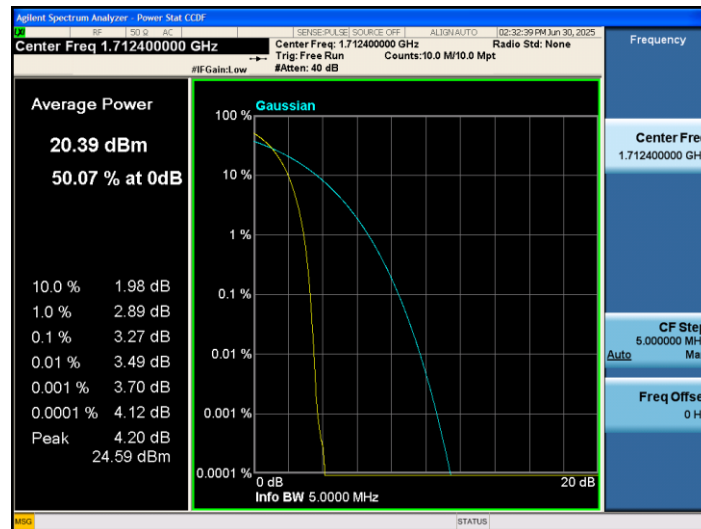
Peak-to-Average Ratio on Channel 4182



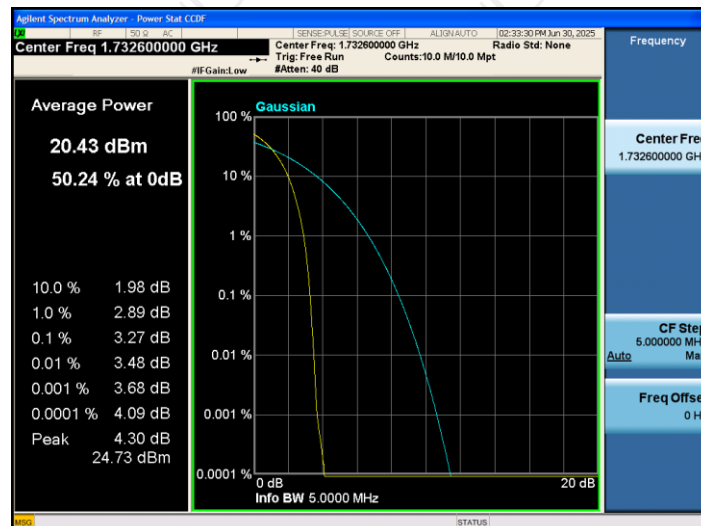
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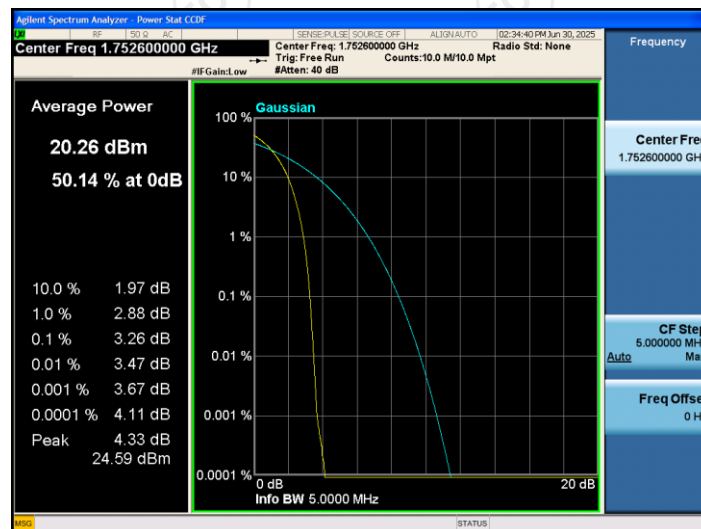
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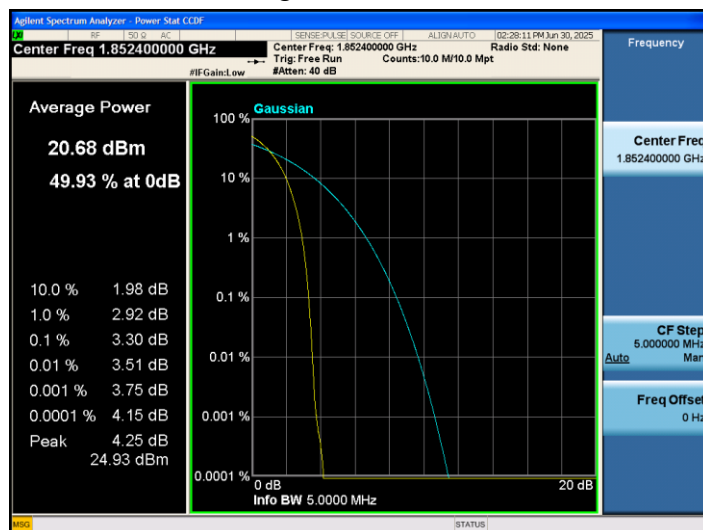
Peak-to-Average Ratio on Channel 1413



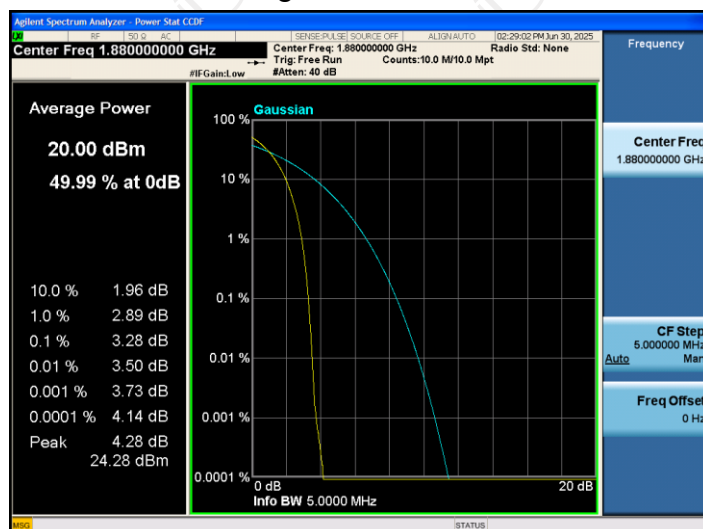
Peak-to-Average Ratio on Channel 1513



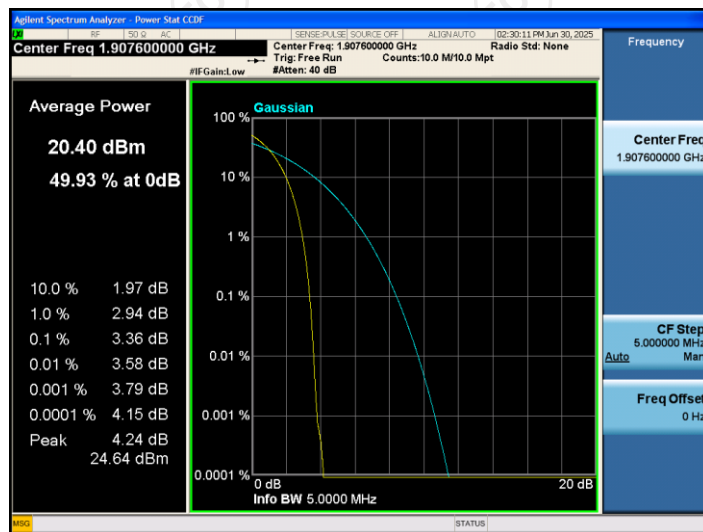
Peak-to-Average Ratio on Channel 9262



Peak-to-Average Ratio on Channel 9400



Peak-to-Average Ratio on Channel 9538



6.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

6.3.1. Test Specification

Test Requirement:	FCC part 2.1049
Test Method:	FCC KDB 971168 D01v03r01
Operation mode:	Refer to item 3.1
Limit:	N/A
Test Setup:	The diagram shows a System Simulator and a Spectrum Analyzer connected to a Power Divider, which is then connected to the EUT (Equipment Under Test).
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03r01 Section 4.2. 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. 3. The RF output of the EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. 4. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold. 5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.
Test Result:	PASS

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
System simulator	R&S	CMU200	110188	Jun. 27, 2024	Jun. 26, 2025
System simulator	R&S	CMU200	110188	Jun. 26, 2025	Jun. 25, 2026
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025	Jun. 25, 2026
Power detector box	MWRFTest	MW100-RFCB	MW210531TCT	Jan. 21, 2025	Jan. 20, 2026

6.3.3. Test data

Cellular Band			
Mode	GSM850		
Channel	128	190	251
Frequency (MHz)	824.2	836.4	848.8
99% OBW (kHz)	247.51	240.54	244.60
26dB BW (kHz)	316.30	313.80	318.20

Cellular Band			
Mode	GSM1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
99% OBW (kHz)	243.11	245.98	240.80
26dB BW (kHz)	313.90	313.80	306.20

Cellular Band			
Mode	EGPRS850		
Channel	128	190	251
Frequency (MHz)	824.2	836.6	848.8
99% OBW (kHz)	242.83	235.69	246.07
26dB BW (kHz)	309.60	317.60	306.90

Cellular Band			
Mode	EGPRS1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
99% OBW (kHz)	241.39	237.49	241.41
26dB BW (kHz)	312.70	315.00	311.90

Cellular Band			
Mode	WCDMA Band V (RMC 12.2Kbps)		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
99% OBW (MHz)	4.17	4.17	4.17
26dB BW (MHz)	4.68	4.69	4.66

Cellular Band			
Mode	WCDMA Band IV (RMC 12.2Kbps)		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
99% OBW (MHz)	4.15	4.15	4.16
26dB BW (MHz)	4.72	4.70	4.73

Cellular Band			
Mode	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (MHz)	4.15	4.15	4.16
26dB BW (MHz)	4.67	4.67	4.66

Cellular Band			
Mode	WCDMA Band V (HSDPA)		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
99% OBW (MHz)	4.16	4.18	4.15
26dB BW (MHz)	4.67	4.66	4.66

Cellular Band			
Mode	WCDMA Band IV (HSDPA)		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
99% OBW (MHz)	4.15	4.19	4.16
26dB BW (MHz)	4.67	4.67	4.70

Cellular Band			
Mode	WCDMA Band II (HSDPA)		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (MHz)	4.16	4.19	4.14
26dB BW (MHz)	4.68	4.67	4.66

Cellular Band			
Mode	WCDMA Band V (HSUPA)		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
99% OBW (MHz)	4.17	4.18	4.16
26dB BW (MHz)	4.65	4.66	4.66

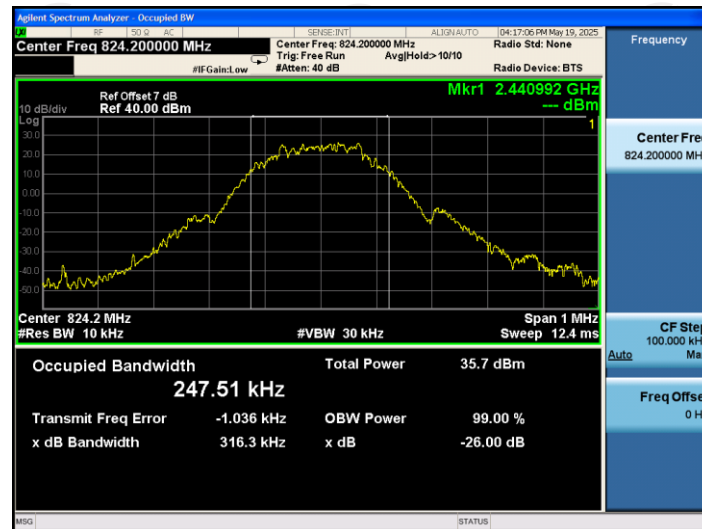
Cellular Band			
Mode	WCDMA Band IV (HSUPA)		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
99% OBW (MHz)	4.17	4.15	4.14
26dB BW (MHz)	4.68	4.69	4.68

Cellular Band			
Mode	WCDMA Band II (HSUPA)		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (MHz)	4.18	4.15	4.14
26dB BW (MHz)	4.67	4.67	4.65

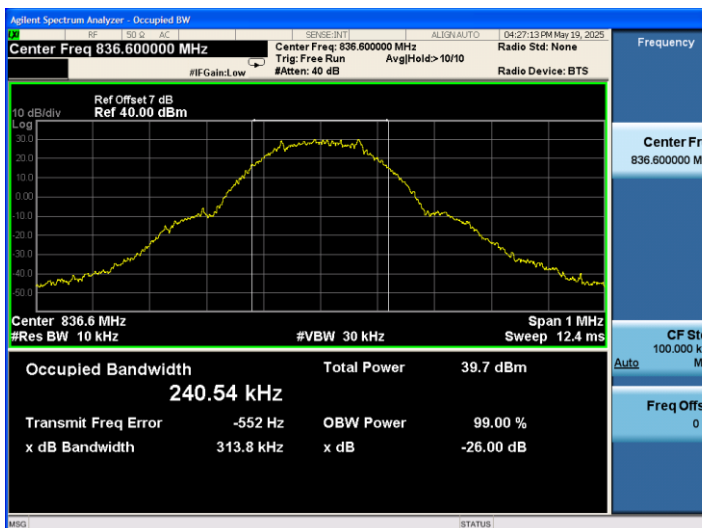
Test plots as follows:

Band:	GSM 850	Test Mode:	GSM Link (GMSK)
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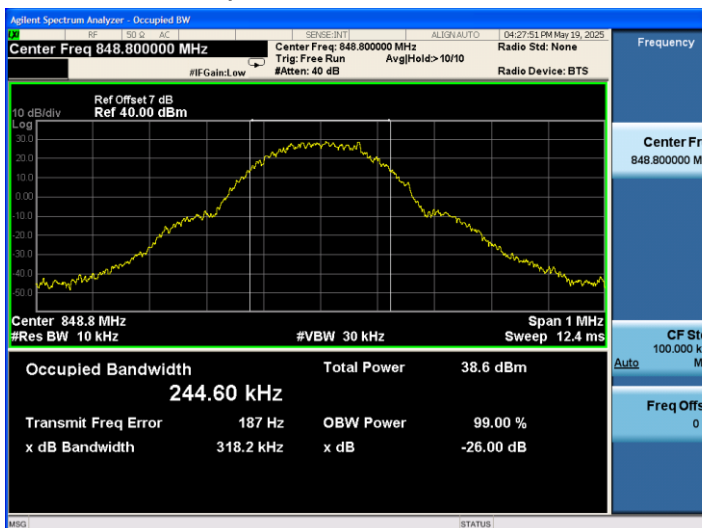
26dB&99% Occupied Bandwidth Plot on Channel 128



26dB&99% Occupied Bandwidth Plot on Channel 190

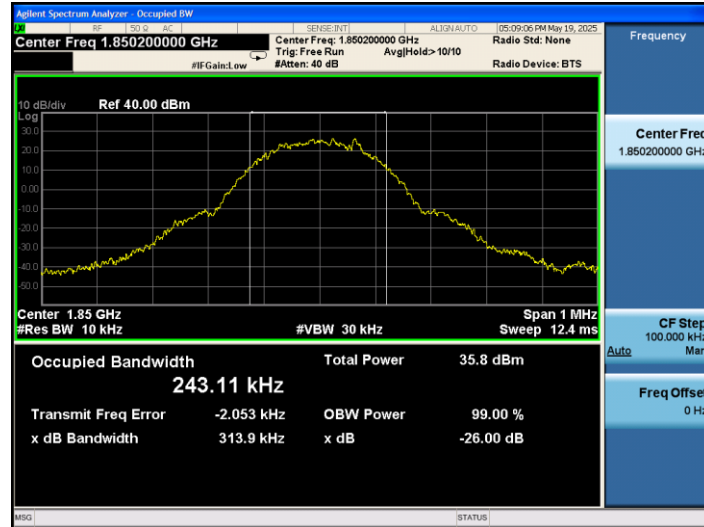


26dB&99% Occupied Bandwidth Plot on Channel 251

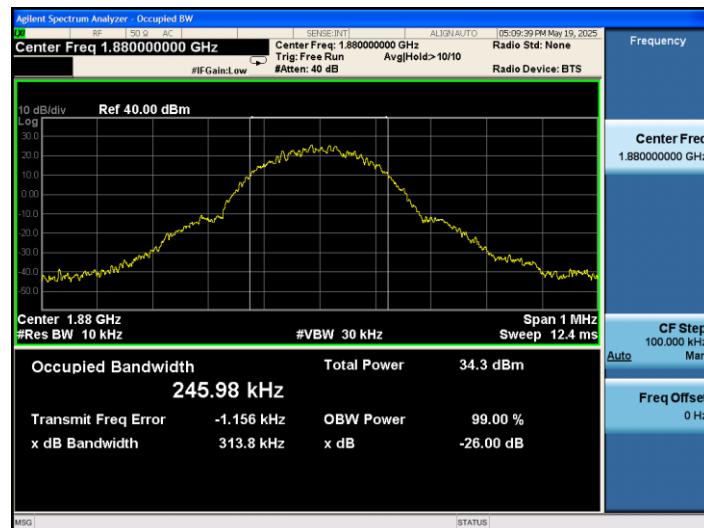


Band:	GSM 1900	Test Mode:	GSM Link (GMSK)
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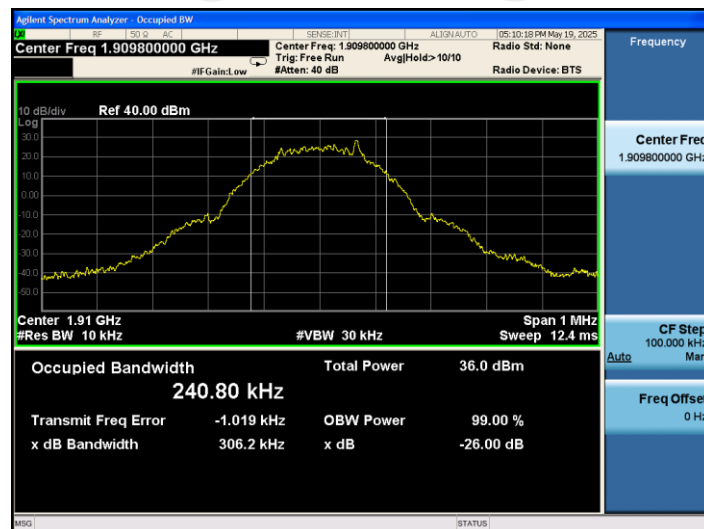
26dB&99% Occupied Bandwidth Plot on Channel 512



26dB&99% Occupied Bandwidth Plot on Channel 661



26dB&99% Occupied Bandwidth Plot on Channel 810



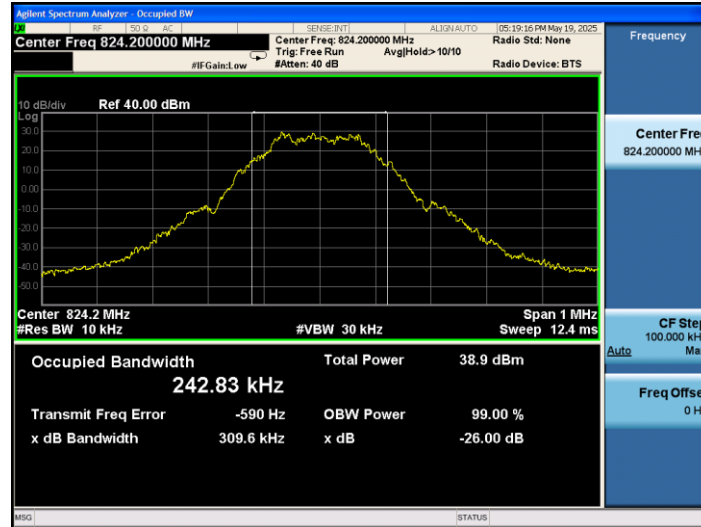
Band:

EGPRS 850

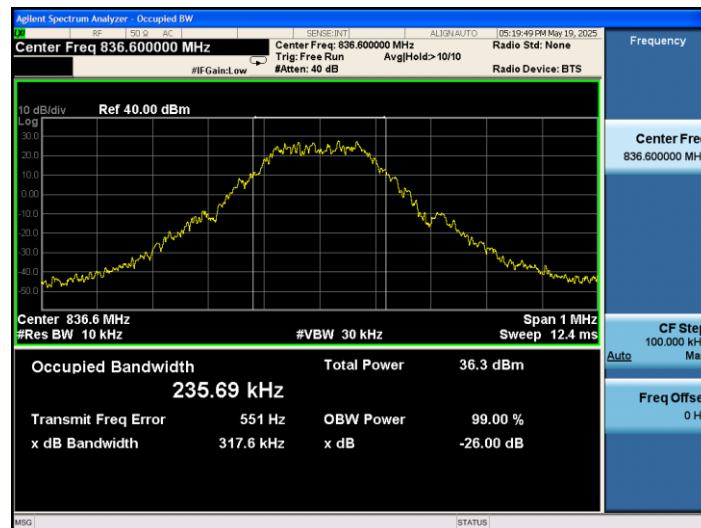
Test Mode:

EGPRS class 12 Link (8PSK)

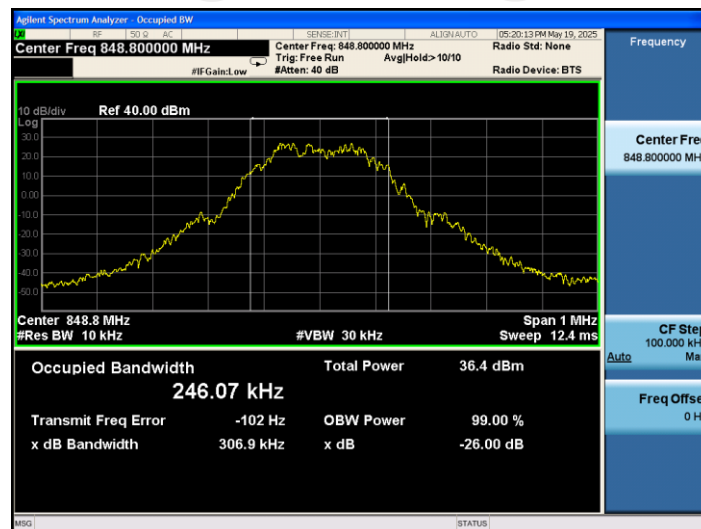
26dB&99% Occupied Bandwidth Plot on Channel 128



26dB&99% Occupied Bandwidth Plot on Channel 190

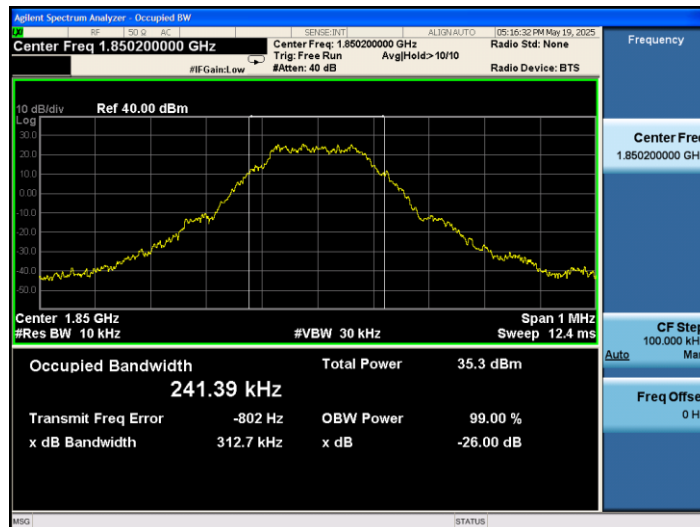


26dB&99% Occupied Bandwidth Plot on Channel 251

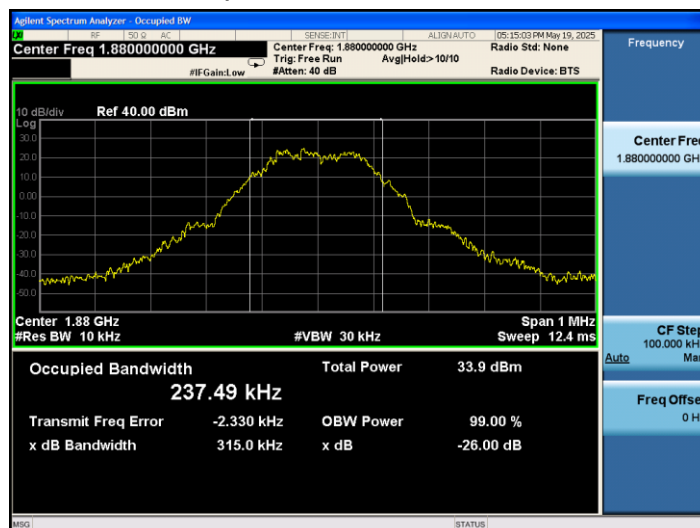


Band: EGPRS 1900 Test Mode: EGPRS class 12 Link (8PSK)

26dB&99% Occupied Bandwidth Plot on Channel 512



26dB&99% Occupied Bandwidth Plot on Channel 661



26dB&99% Occupied Bandwidth Plot on Channel 810

