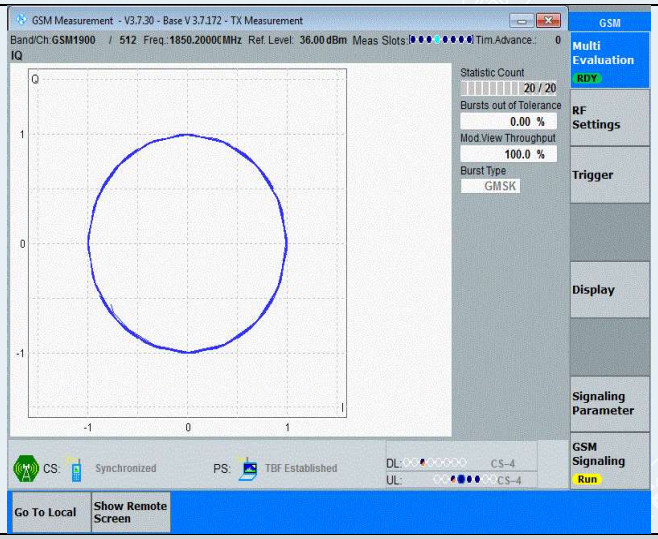
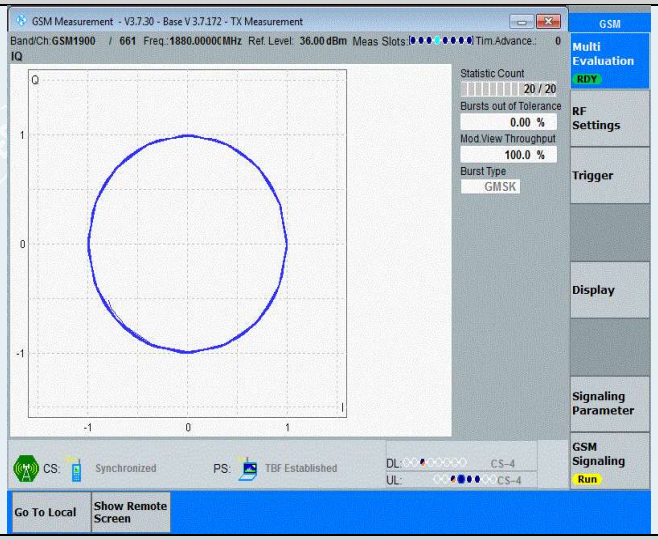
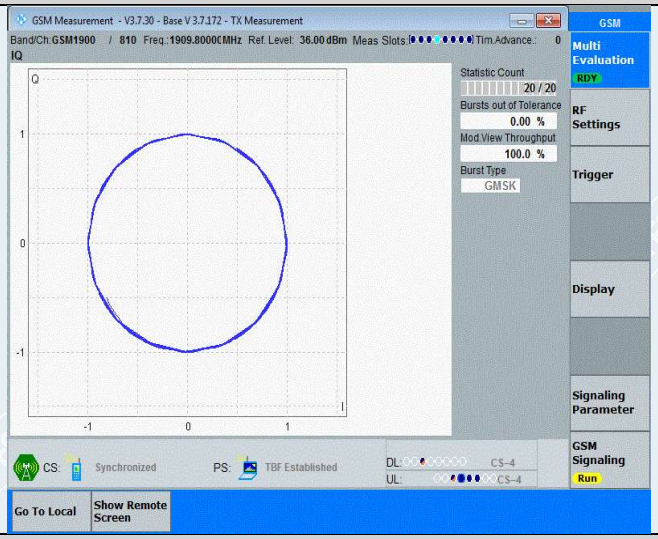


GPRS1900-512



GPRS1900-661



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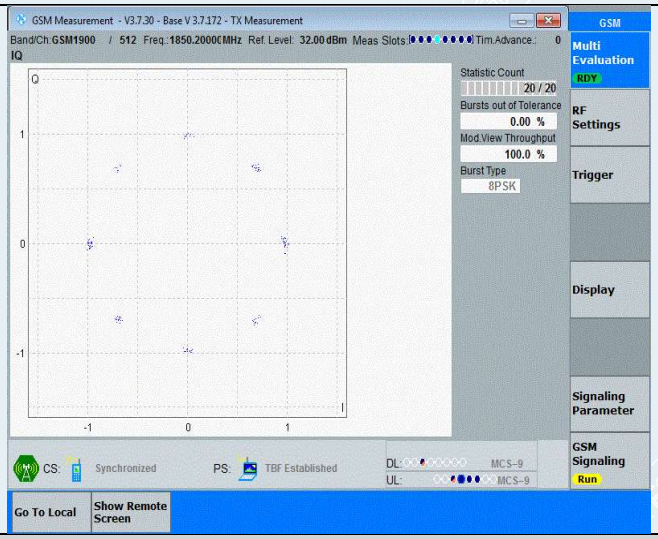
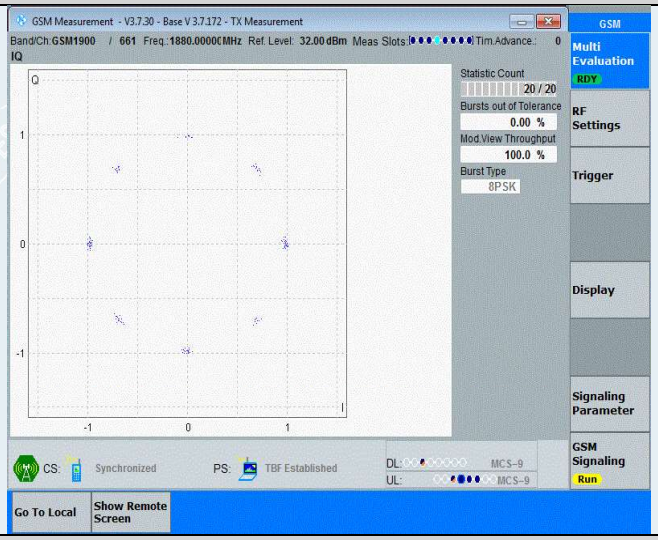
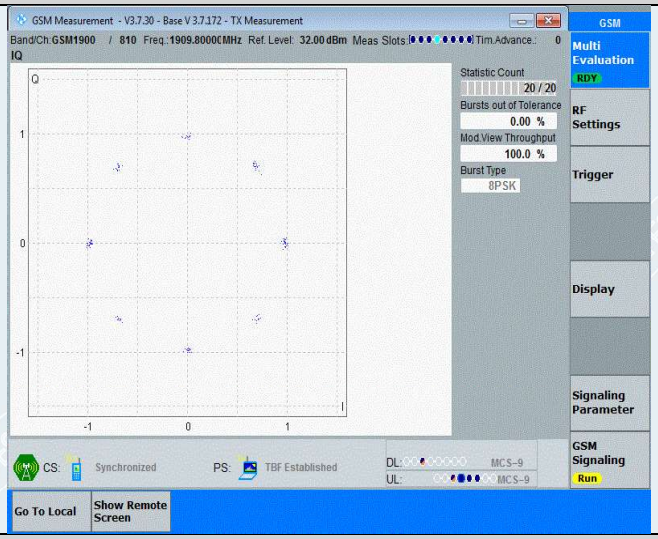


EGPRS1900-512



EGPRS1900-661



EGPRS1900-810

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8. BANDWIDTH

8.1 LIMIT

According to FCC section 2.1049, OBW and EBW no limit.

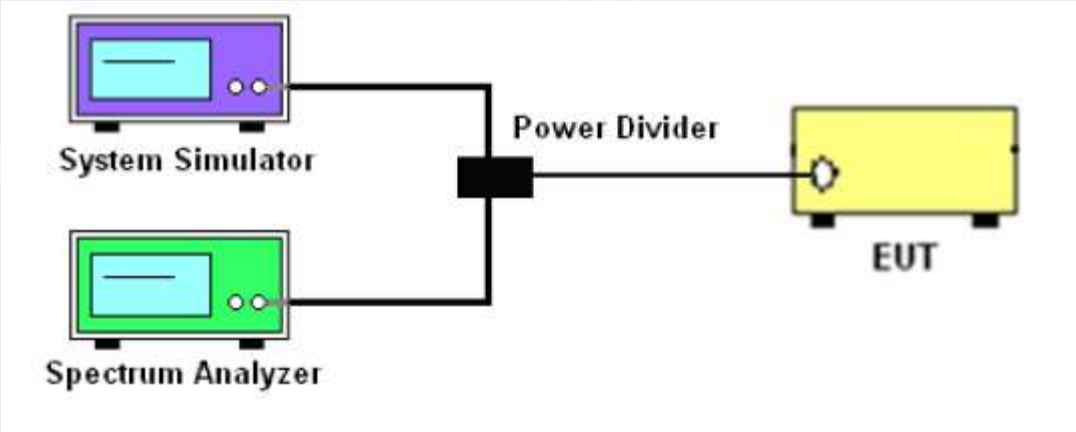
8.2 TEST PROCEDURES

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 transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel).The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

Test Settings

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×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

8.3 TEST SETUP



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8.4 TEST RESULTS

EUT Name	Remote Monitor System	Model	FLC-WNP019
Sample No.	E202304116396-0002	Test Mode	GSM
Power supply	DC 3.6V	Environmental Conditions	Temp:23.2℃;Humi:44%RH
Test Date	2023-04-17 to 2023-04-28	Test Site	shielded room-4
Tested By	Zhu Rongting	Reviewed by	Zhao Zetian

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.23997	0.3022	---	PASS
GSM850	190	0.24226	0.3030	---	PASS
GSM850	251	0.24476	0.3056	---	PASS
GPRS850	128	0.24095	0.3105	---	PASS
GPRS850	190	0.24667	0.3236	---	PASS
GPRS850	251	0.24684	0.3168	---	PASS
EGPRS850	128	0.24187	0.3071	---	PASS
EGPRS850	190	0.24036	0.3009	---	PASS
EGPRS850	251	0.24434	0.3058	---	PASS
PCS1900	512	0.24511	0.3043	---	PASS
PCS1900	661	0.24607	0.3048	---	PASS
PCS1900	810	0.24452	0.3036	---	PASS
GPRS1900	512	0.24875	0.3143	---	PASS
GPRS1900	661	0.24919	0.3147	---	PASS
GPRS1900	810	0.24515	0.3122	---	PASS
EGPRS1900	512	0.24400	0.3104	---	PASS
EGPRS1900	661	0.24366	0.3079	---	PASS
EGPRS1900	810	0.25050	0.3147	---	PASS

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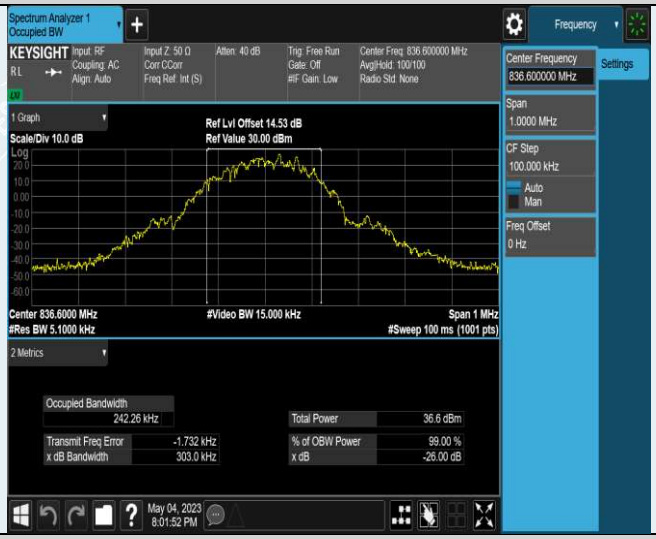
GSM850-128



GSM850-190

GSM850-251

GPRS850-128

GPRS850-190

GPRS850-251

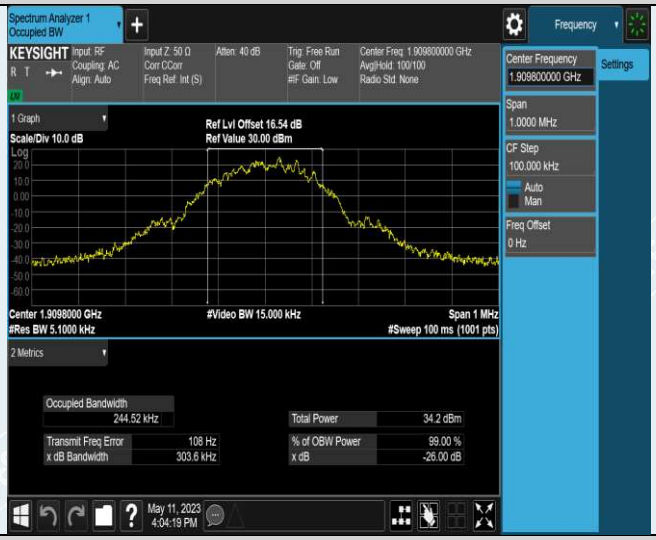
EGPRS850-128

EGPRS850-190

EGPRS850-251

PCS1900-512

PCS1900-661



PCS1900-810

GPRS1900-512

GPRS1900-661

GPRS1900-810

EGPRS1900-512

EGPRS1900-661

EGPRS1900-810

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9. BAND EDGES COMPLIANCE

9.1 LIMIT

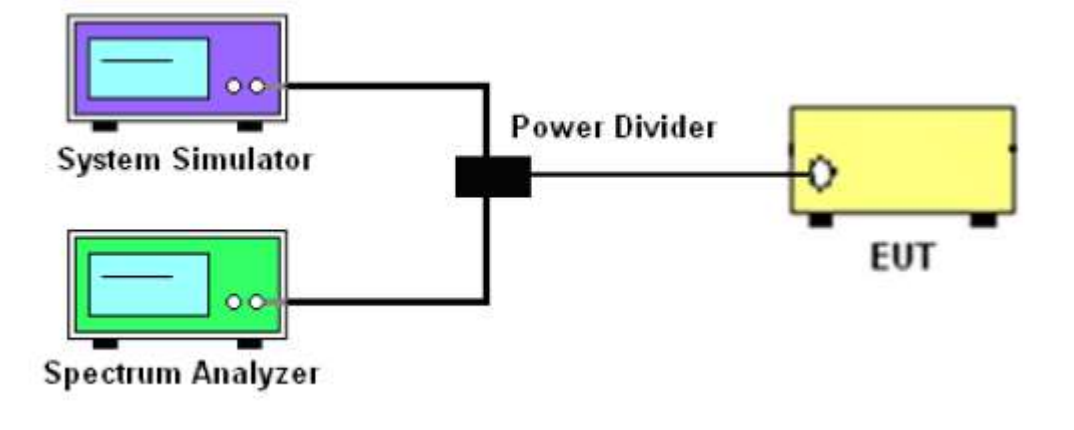
According to FCC section 22.917(b)(1), 24.238(a)(b), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10log(P) dB.

9.2 TEST PROCEDURES

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6
The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.

Test Settings
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW ≥ 1% of the emission bandwidth
4. VBW ≥ 3×RBW
5. Detector = RMS
6. Number of sweep points ≥ 2×Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

9.3 TEST SETUP



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9.4 TEST RESULTS

EUT Name	Remote Monitor System	Model	FLC-WNP019
Sample No.	E202304116396-0002	Test Mode	GSM
Power supply	DC 3.6V	Environmental Conditions	Temp:22.9℃;Humi:46%RH
Test Date	2023-04-17 to 2023-04-28	Test Site	shielded room-4
Tested By	Zhu Rongting	Reviewed by	Zhao Zetian

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	824.00	-22.79	-13	PASS
GSM850	251	849.02	-24.65	-13	PASS
GPRS850	128	823.99	-27.11	-13	PASS
GPRS850	251	849.02	-25.37	-13	PASS
EGPRS850	128	823.99	-34.49	-13	PASS
EGPRS850	251	849.03	-34.36	-13	PASS
PCS1900	512	1849.96	-28.90	-13	PASS
PCS1900	810	1910.02	-27.71	-13	PASS
GPRS1900	512	1849.98	-28.57	-13	PASS
GPRS1900	810	1910.02	-27.95	-13	PASS
EGPRS1900	512	1849.98	-35.90	-13	PASS
EGPRS1900	810	1910.01	-36.71	-13	PASS

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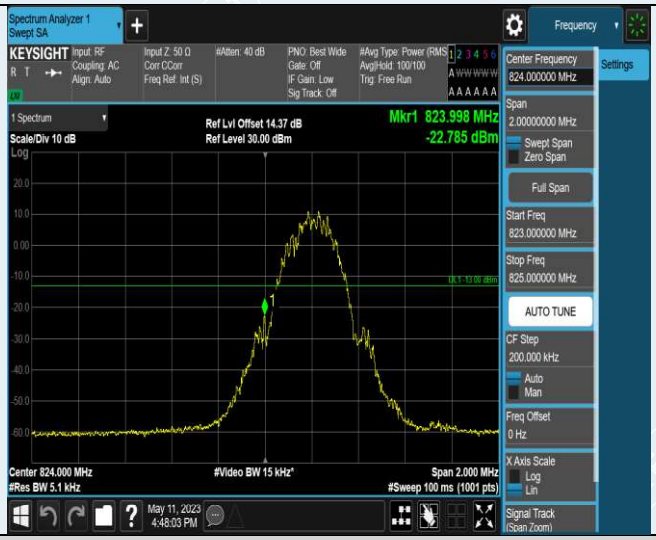
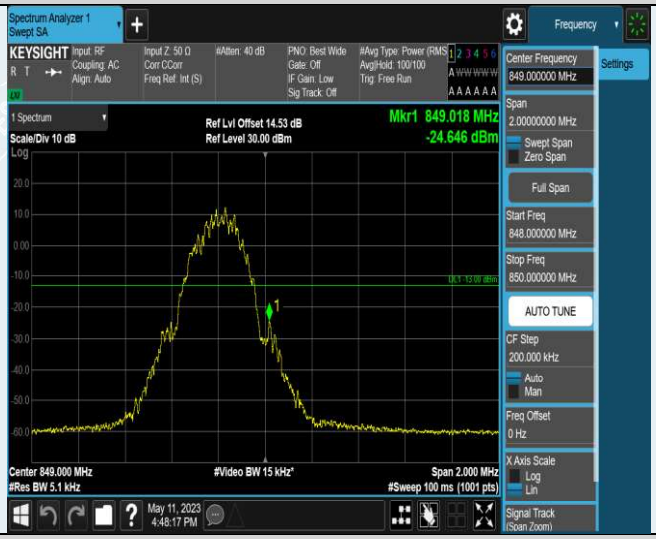
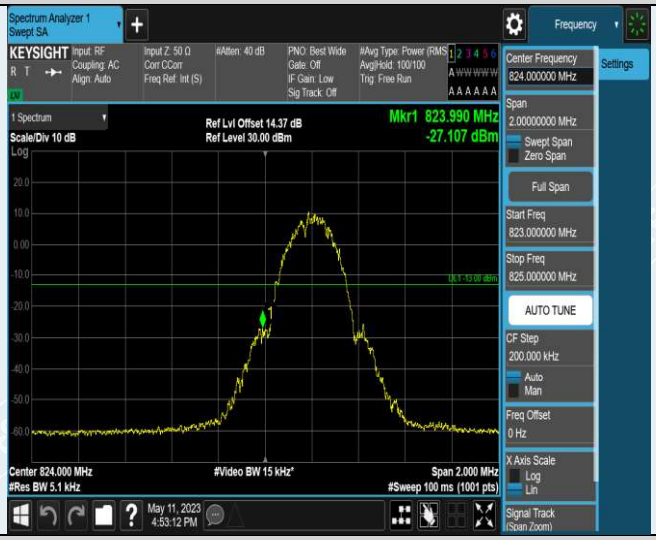


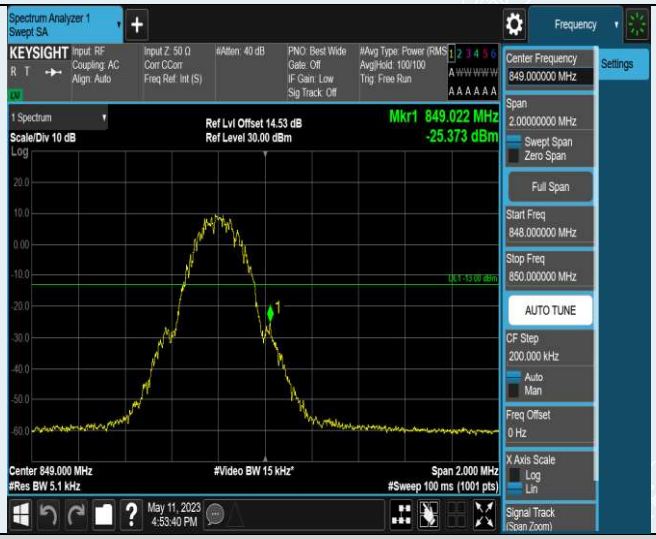
GSM850-128



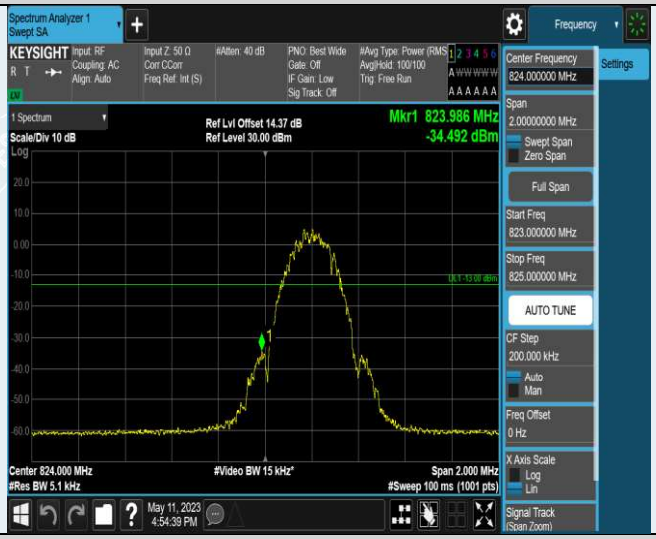
GSM850-251



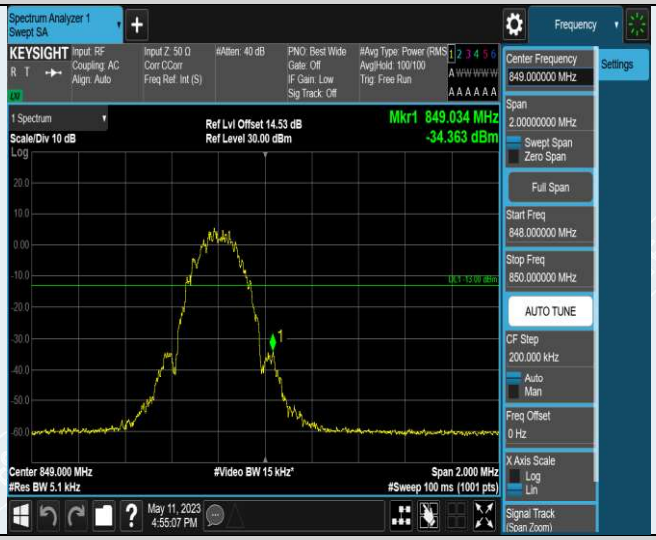
GPRS850-128



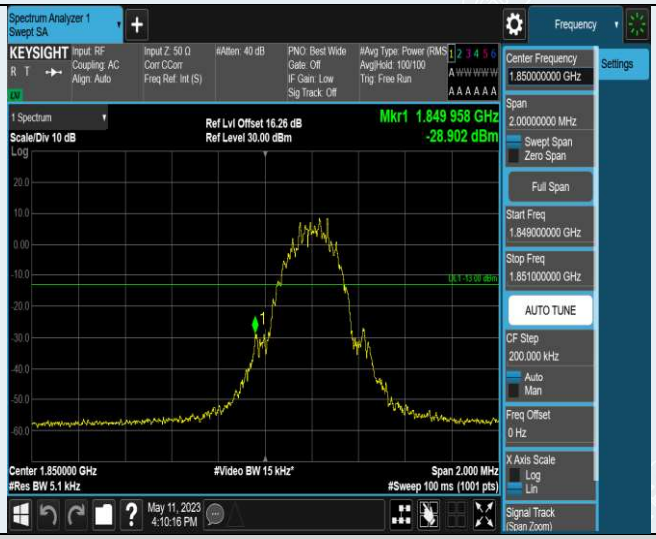
GPRS850-251



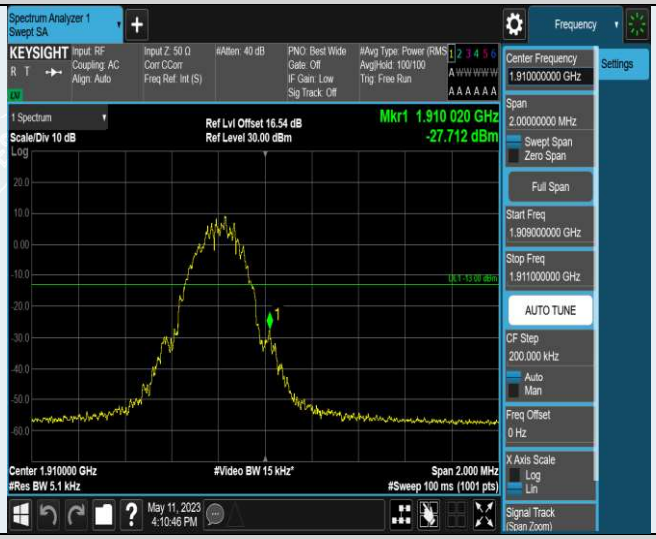
EGPRS850-128



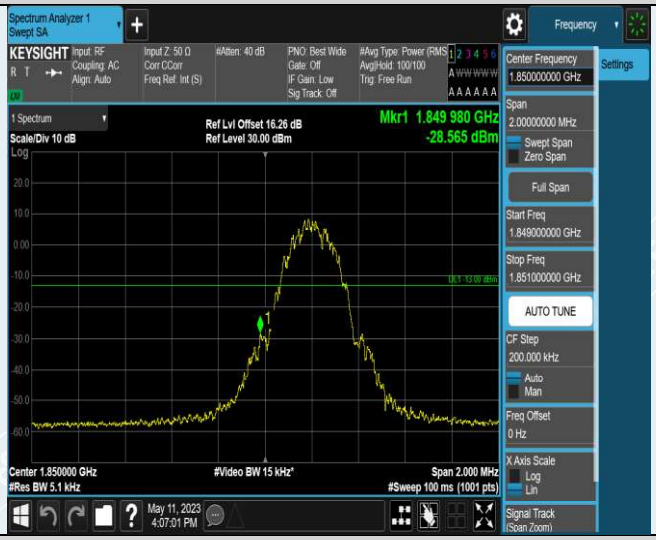
EGPRS850-251



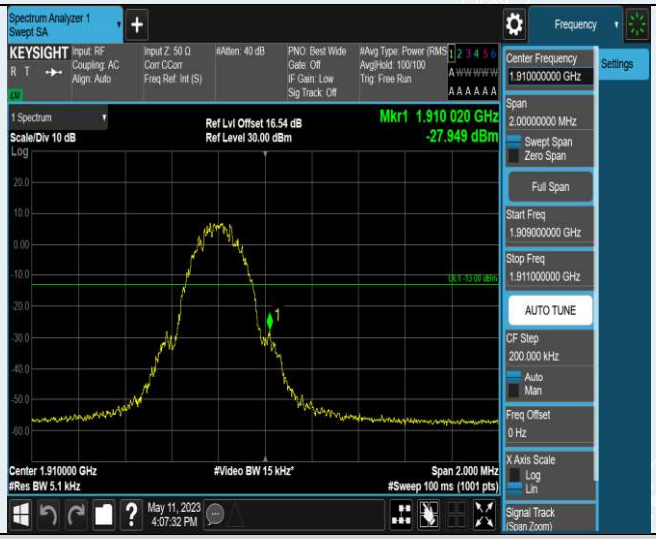
PCS1900-512



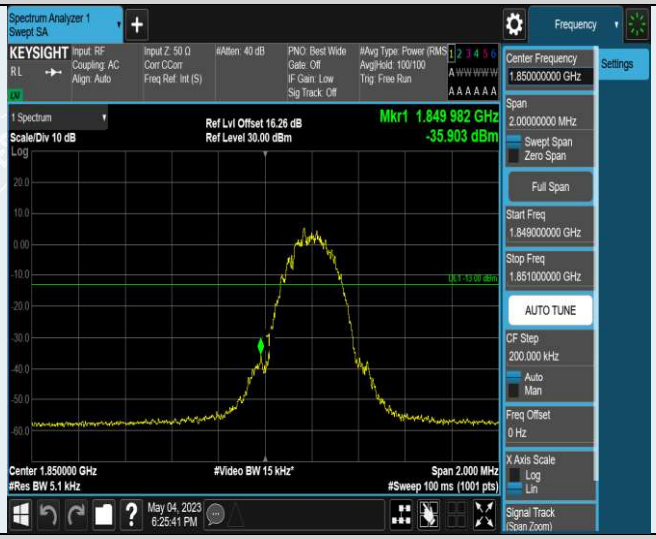
PCS1900-810



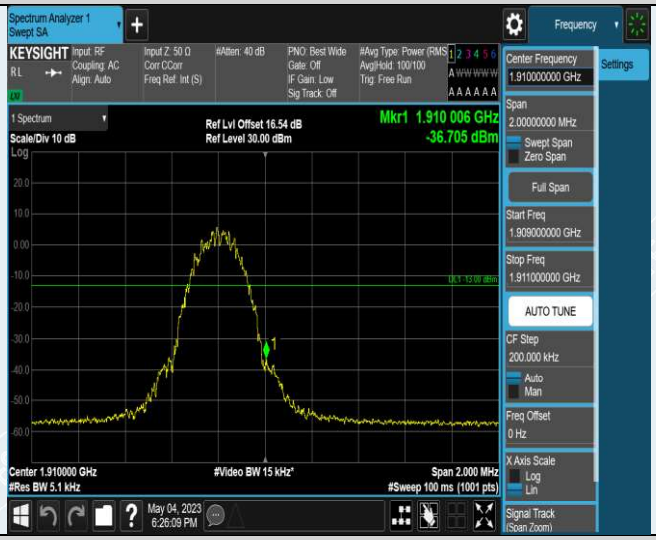
GPRS1900-512



GPRS1900-810



EGPRS1900-512



EGPRS1900-810

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10. SPURIOUS EMISSION AT ANTENNA TERMINAL

10.1 LIMIT

According to FCC section 22.917(a), 24.238(a)(b), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10log(P) dB.

10.2 TEST PROCEDURES

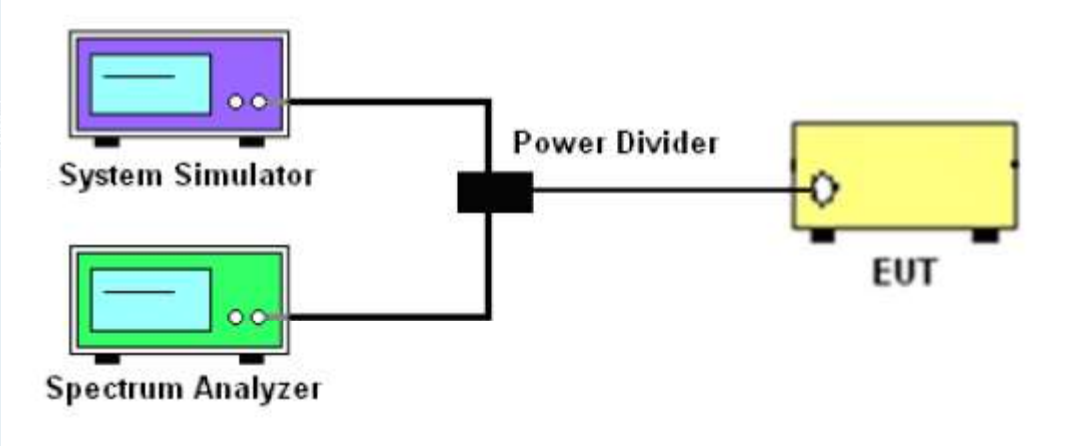
Measurement Procedure: FCC KDB 971168 D01 V03r01
The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel).The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10*the fundamental frequency (separated into at least two plots per channel)
2. Detector=RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Remark:
The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

10.3 TEST SETUP



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10.4 TEST RESULTS

EUT Name	Remote Monitor System	Model	FLC-WNP019
Sample No.	E202304116396-0002	Test Mode	GSM
Power supply	DC 3.6V	Environmental Conditions	Temp:22.1℃;Humi:42%RH
Test Date	2023-04-17 to 2023-04-28	Test Site	shielded room-4
Tested By	Zhu Rongting	Reviewed by	Zhao Zetian

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-49.76	-33	PASS
GSM850	128	0.15~30MHz	0.15	-52.6	-23	PASS
GSM850	128	30~1000MHz	946.71	-37.18	-13	PASS
GSM850	128	1000~10000MHz	2472.7	-37.31	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-50.28	-33	PASS
GSM850	190	0.15~30MHz	0.19	-52.18	-23	PASS
GSM850	190	30~1000MHz	979.53	-36.93	-13	PASS
GSM850	190	1000~10000MHz	3040.9	-41.11	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-51.12	-33	PASS
GSM850	251	0.15~30MHz	0.19	-51.56	-23	PASS
GSM850	251	30~1000MHz	996.12	-37.43	-13	PASS
GSM850	251	1000~10000MHz	2546.5	-36.13	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-50.85	-33	PASS
GPRS850	128	0.15~30MHz	0.16	-52.16	-23	PASS
GPRS850	128	30~1000MHz	932.59	-37.22	-13	PASS
GPRS850	128	1000~10000MHz	3024.1	-41.34	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-51.1	-33	PASS
GPRS850	190	0.15~30MHz	0.15	-51.53	-23	PASS
GPRS850	190	30~1000MHz	950.3	-36.13	-13	PASS
GPRS850	190	1000~10000MHz	3043.3	-41.26	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-50.98	-33	PASS
GPRS850	251	0.15~30MHz	0.16	-51.8	-23	PASS
GPRS850	251	30~1000MHz	605.5	-37.39	-13	PASS
GPRS850	251	1000~10000MHz	2546.2	-36.65	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-50.07	-33	PASS
EGPRS850	128	0.15~30MHz	0.16	-52.42	-23	PASS
EGPRS850	128	30~1000MHz	967.96	-36.95	-13	PASS
EGPRS850	128	1000~10000MHz	3052	-41.16	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-50.31	-33	PASS
EGPRS850	190	0.15~30MHz	0.16	-52.2	-23	PASS
EGPRS850	190	30~1000MHz	976.01	-37	-13	PASS
EGPRS850	190	1000~10000MHz	3044.5	-41.16	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-50.32	-33	PASS
EGPRS850	251	0.15~30MHz	0.16	-52	-23	PASS
EGPRS850	251	30~1000MHz	976.59	-37.4	-13	PASS
EGPRS850	251	1000~10000MHz	3039.1	-41.22	-13	PASS
PCS1900	512	30~1000MHz	847.26	-45.69	-13	PASS
PCS1900	512	1000~3000MHz	2679.6	-41.8	-13	PASS
PCS1900	512	3000~20000MHz	17298.13	-32.2	-13	PASS
PCS1900	661	30~1000MHz	947.59	-45.94	-13	PASS
PCS1900	661	1000~3000MHz	2685.8	-41.77	-13	PASS
PCS1900	661	3000~20000MHz	17310.6	-32.23	-13	PASS
PCS1900	810	30~1000MHz	949.88	-45.37	-13	PASS
PCS1900	810	1000~3000MHz	2686.2	-41.76	-13	PASS
PCS1900	810	3000~20000MHz	17300.4	-32.22	-13	PASS
GPRS1900	512	30~1000MHz	915.13	-45.89	-13	PASS
GPRS1900	512	1000~3000MHz	2676.87	-41.84	-13	PASS

GPRS1900	512	3000~20000MHz	17310.6	-32.29	-13	PASS
GPRS1900	661	30~1000MHz	869.66	-46.03	-13	PASS
GPRS1900	661	1000~3000MHz	2682.13	-41.8	-13	PASS
GPRS1900	661	3000~20000MHz	17318.53	-32.21	-13	PASS
GPRS1900	810	30~1000MHz	906.1	-45.59	-13	PASS
GPRS1900	810	1000~3000MHz	2682.87	-41.83	-13	PASS
GPRS1900	810	3000~20000MHz	17311.17	-32.32	-13	PASS
EGPRS1900	512	30~1000MHz	859.93	-46.01	-13	PASS
EGPRS1900	512	1000~3000MHz	2687.33	-41.72	-13	PASS
EGPRS1900	512	3000~20000MHz	17310.6	-32.22	-13	PASS
EGPRS1900	661	30~1000MHz	879.14	-45.68	-13	PASS
EGPRS1900	661	1000~3000MHz	2692.27	-41.75	-13	PASS
EGPRS1900	661	3000~20000MHz	17317.4	-32.24	-13	PASS
EGPRS1900	810	30~1000MHz	922.89	-45.83	-13	PASS
EGPRS1900	810	1000~3000MHz	2683.73	-41.83	-13	PASS
EGPRS1900	810	3000~20000MHz	17306.63	-32.34	-13	PASS

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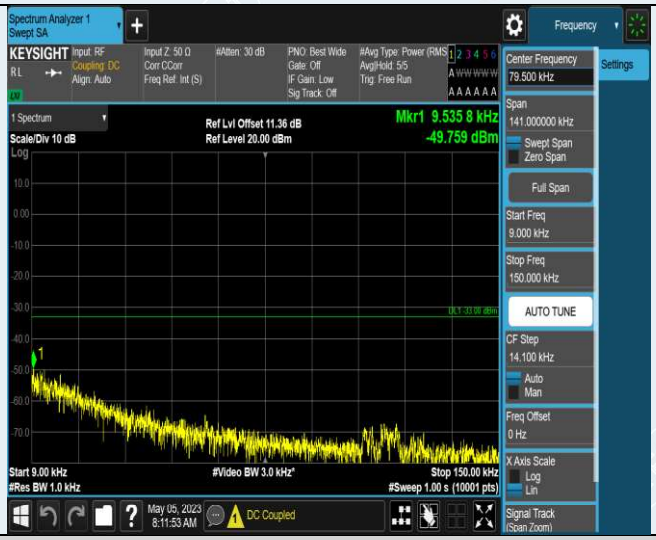
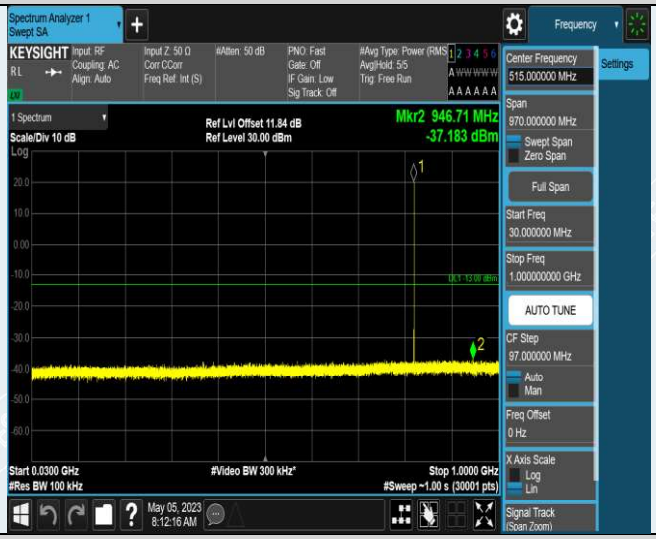


GSM850-128-0.009~0.15MHz

GSM850-128-0.15~30MHz

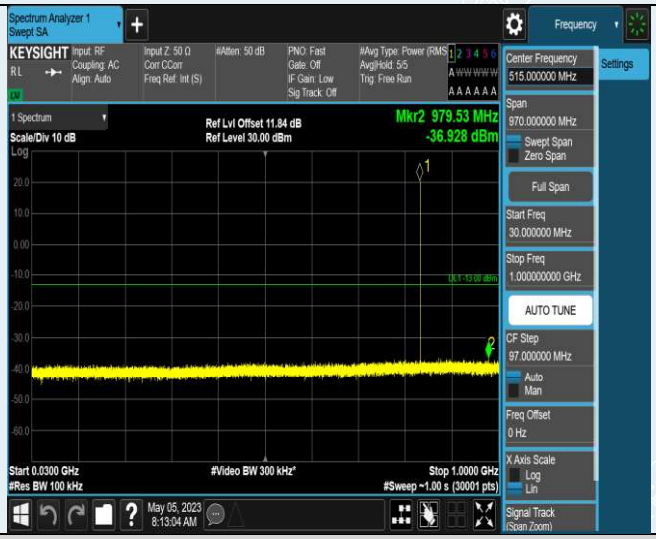


GSM850-128-30~1000MHz

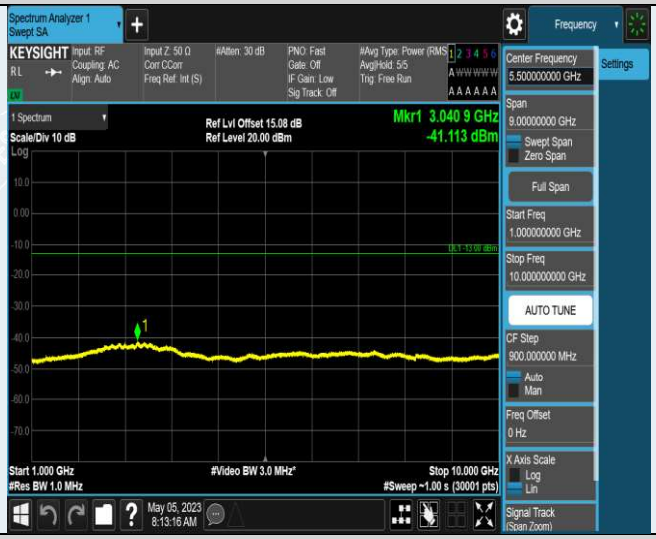
GSM850-128-1000~10000MHz

GSM850-190-0.009~0.15MHz

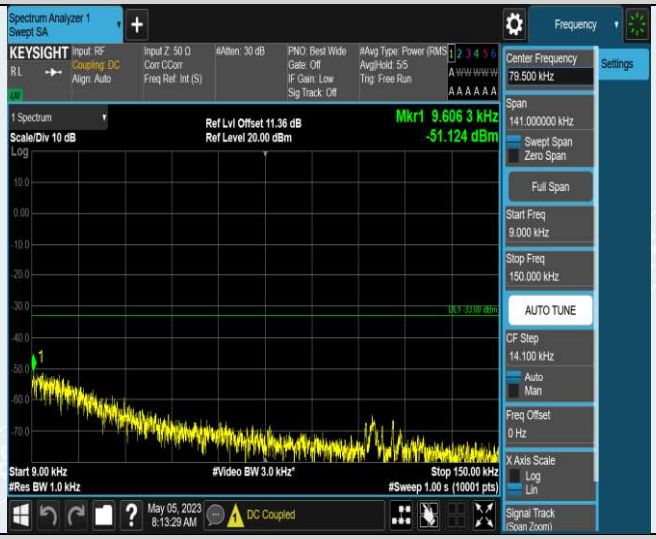
GSM850-190-0.15~30MHz



GSM850-190-30~1000MHz



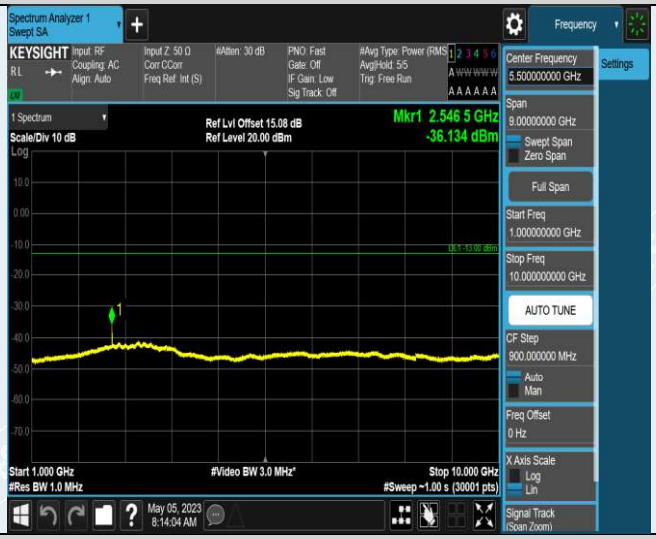
GSM850-190-1000~10000MHz



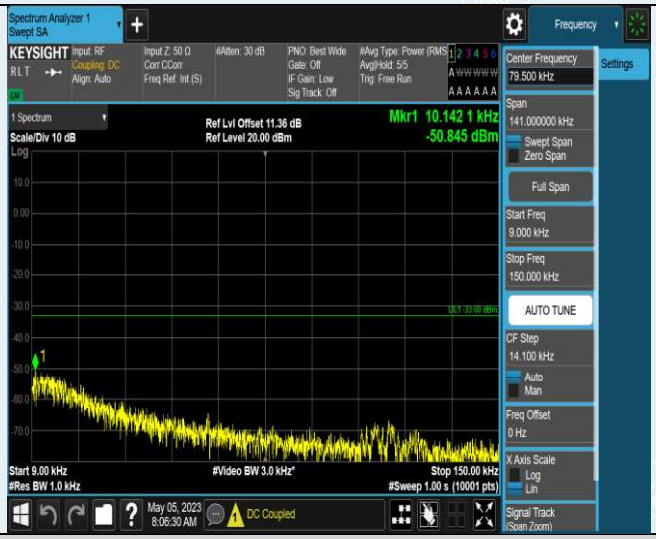
GSM850-251-0.009~0.15MHz

GSM850-251-0.15~30MHz

GSM850-251-30~1000MHz



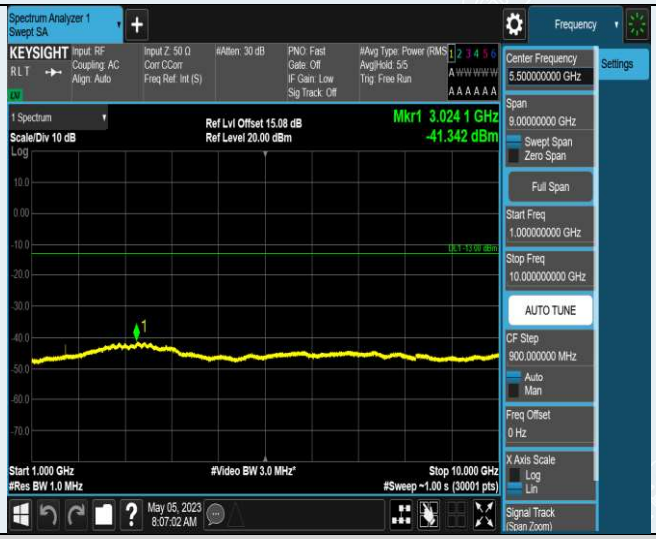
GSM850-251-1000~10000MHz



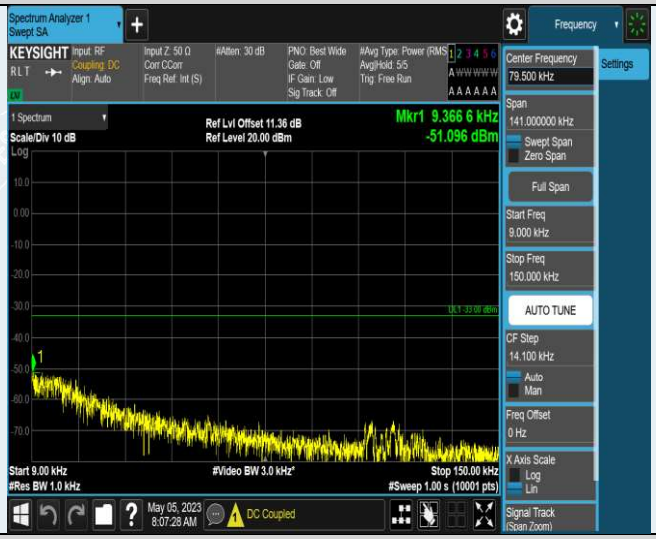
GPRS850-128-0.009~0.15MHz

GPRS850-128-0.15~30MHz

GPRS850-128-30~1000MHz

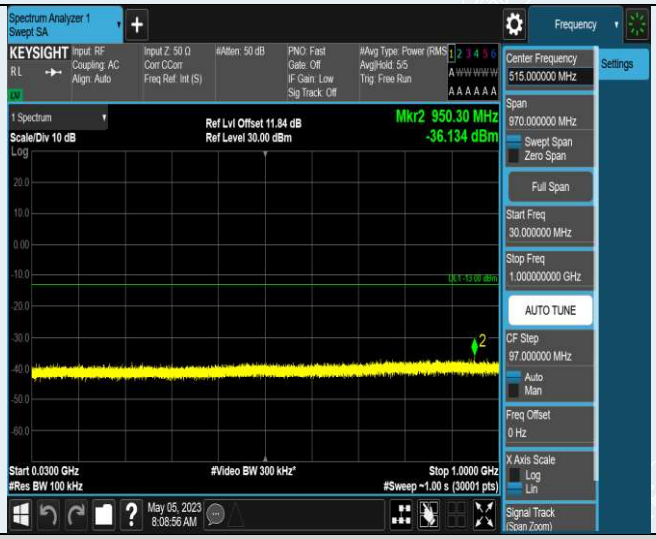


GPRS850-128-1000~10000MHz

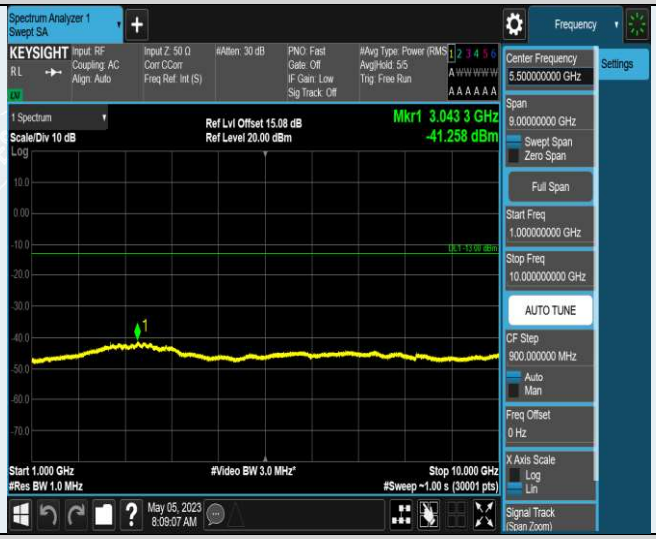


GPRS850-190-0.009~0.15MHz

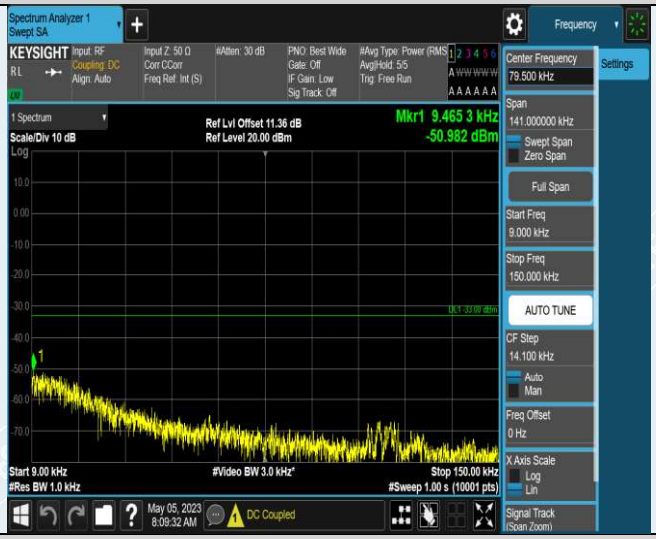
GPRS850-190-0.15~30MHz



GPRS850-190-30~1000MHz



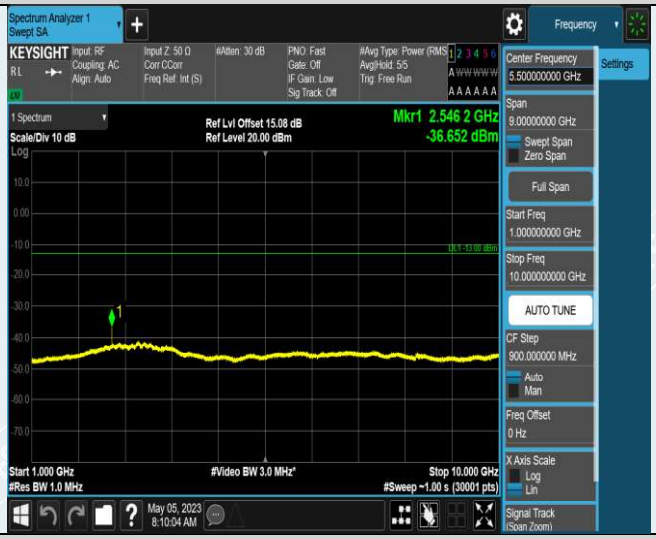
GPRS850-190-1000~10000MHz



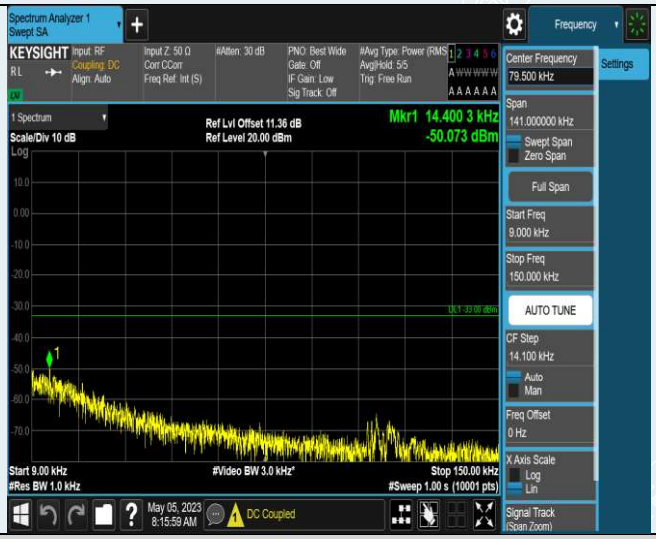
GPRS850-251-0.009~0.15MHz

GPRS850-251-0.15~30MHz

GPRS850-251-30~1000MHz

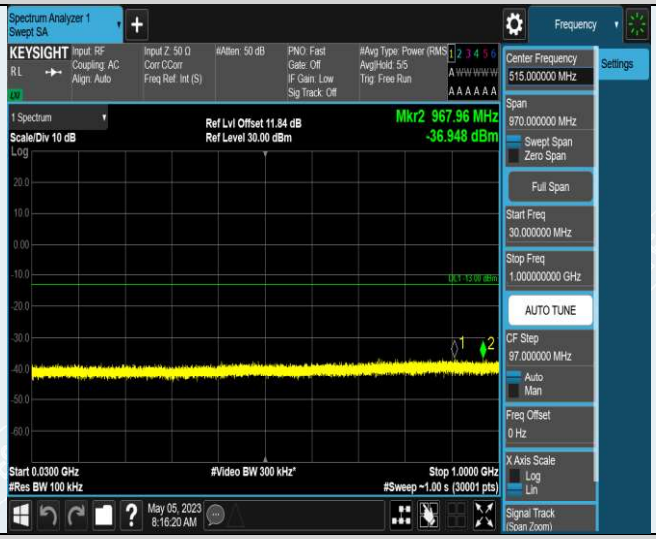


GPRS850-251-1000~10000MHz

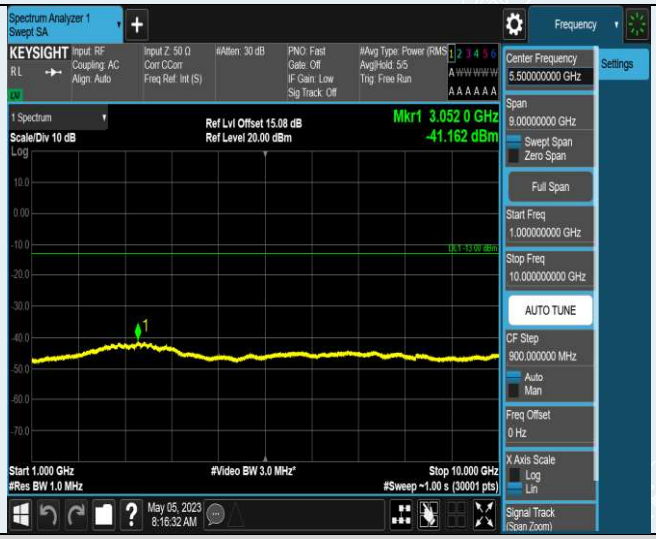


EGPRS850-128-0.009~0.15MHz

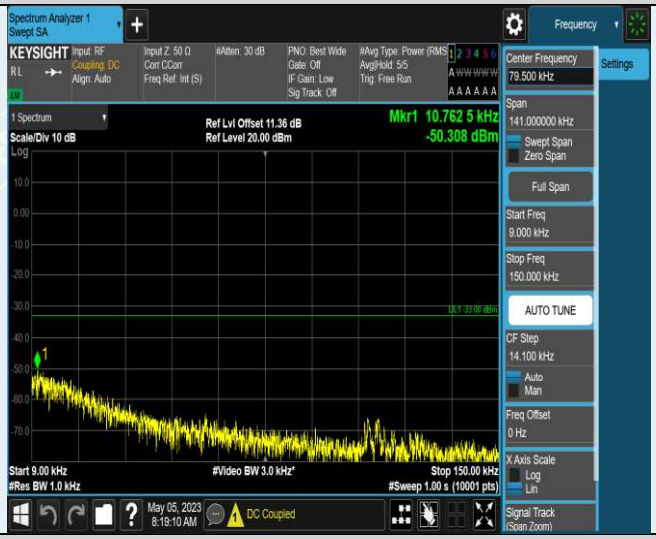
EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz

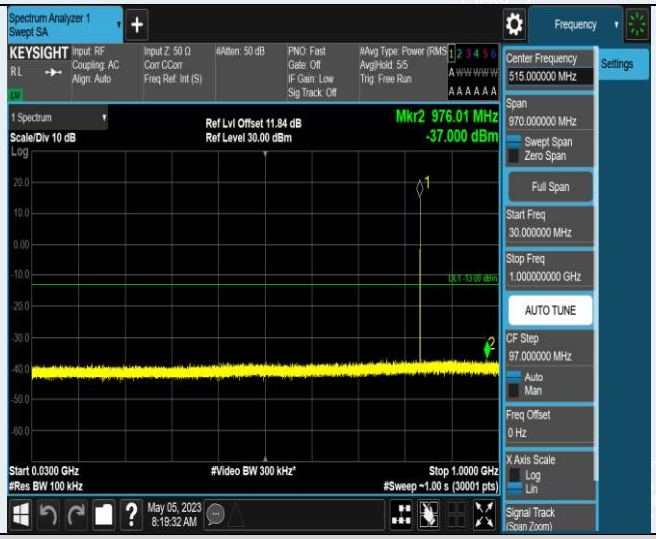


EGPRS850-128-1000~10000MHz

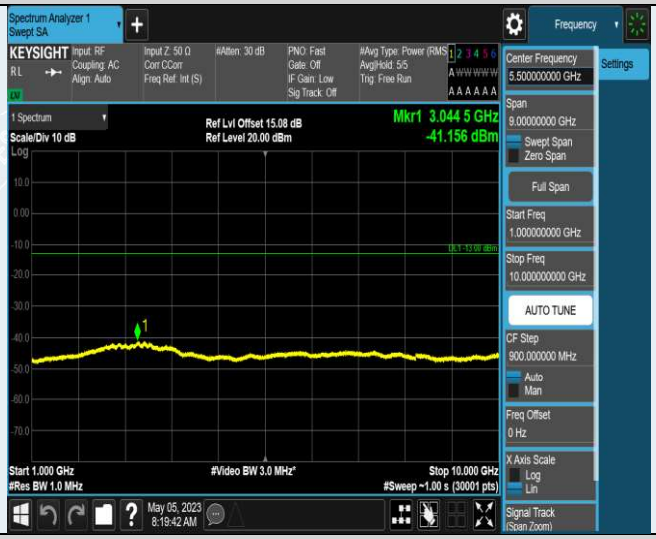


EGPRS850-190-0.009~0.15MHz

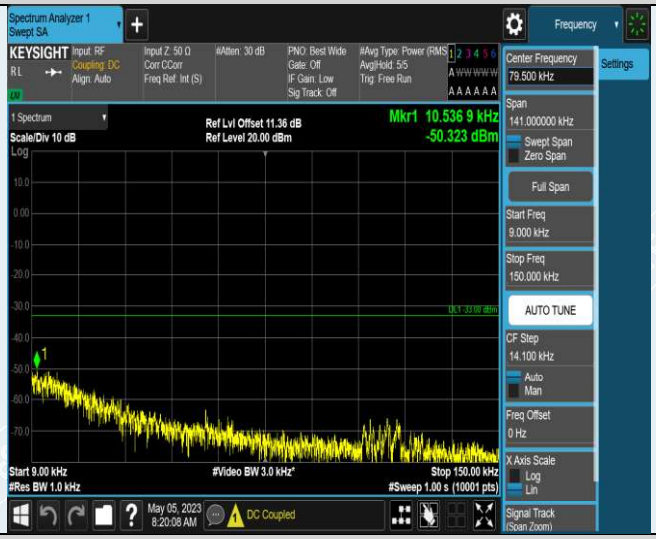
EGPRS850-190-0.15~30MHz



EGPRS850-190-30~1000MHz



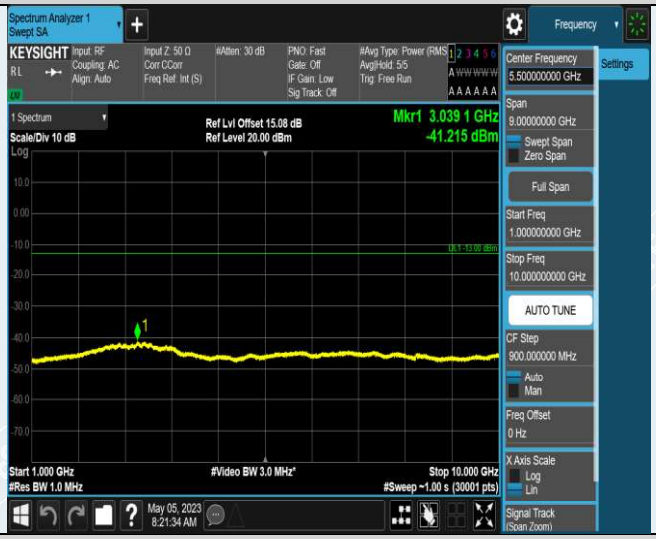
EGPRS850-190-1000~10000MHz



EGPRS850-251-0.009~0.15MHz

EGPRS850-251-0.15~30MHz

EGPRS850-251-30~1000MHz



EGPRS850-251-1000~10000MHz