

TEST REPORT

Application No.: FYCR2608000385AT

Applicant: Comba Telecom Network Systems Limited

Address of Applicant: Flat/Rm 10, 3/F, Bio-Informatics Ctr, 2 Science Park West Avenue, HK Science Park, Pak Shek Kok, N.T. Hong Kong

Manufacturer: Comba Telecom Technology (Guangzhou) Ltd.

Address of Manufacturer: No. 6 Jinbi Road, Economics and Technology Development District, Guangzhou, Guangdong, China

Factory: Comba Telecom Technology (Guangzhou) Ltd.

Address of Factory: No. 6 Jinbi Road, Economics and Technology Development District, Guangzhou, Guangdong, China

EUT Name: mBDA Band Selective Wireless Repeater

Item No.: mBDA-200ST

Trade Mark: Comba

FCC ID: PX8MBDA-200ST

Standard(s) : 47 CFR Part 2
47 CFR Part 20
47 CFR Part 27

Date of Receipt: 2026-08-03

Date of Test: 2026-08-11 to 2026-09-16

Date of Issue: 2026-09-18

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038502

Page: 2 of 99

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-09-18		Original

Authorized for issue by			
		Byron Liang	
		Byron Liang/Project Engineer	
Approved By		Tree Zhan	
		Tree Zhan/Reviewer	



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2 Test Summary

Item	Standard	Method	Requirement	Result
Out-of-band rejection	KDB935210 D05 v01r04	KDB935210 D05 v01r04 clause 3.3	KDB935210 D05 v01r04 clause 3.3	Pass
Input-versus-output signal comparison	47 CFR Part 2	KDB935210 D05 v01r04 clause 3.4	Part 2.1049	Pass
Mean output power and amplifier/booster gain	47 CFR Part 27	KDB935210 D05 v01r04 clause 3.5	Part 27.50(k)(2) Part 27.50(k)(4)	Pass
Out-of-band/out-of-block(including intermodulation) emissions		KDB935210 D05 v01r04 clause 3.6	Part 27.53(n)(1)	Pass
Conducted spurious emissions		KDB935210 D05 v01r04 clause 3.6	Part 27.53(n)(1)	Pass
Frequency stability		KDB935210 D05 v01r04 clause 3.7 ANSI C63.26-2015 Clause 5.6	47 CFR Part 2.1055	Pass
Radiated spurious emissions (below 1GHz)		KDB935210 D05 v01r04 clause 3.8 ANSI C63.26-2015 Clause 5.5	Part 27.53(n)(1)	Pass
Radiated spurious emissions (above 1GHz)		KDB935210 D05 v01r04 clause 3.8 ANSI C63.26-2015 Clause 5.5	Part 27.53(n)(1)	Pass

Note:

E.U.T./ EUT means Equipment Under Test

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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3 Contents

	Page
1 Covers Page	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of EUT	6
4.2 Description of Support Units	7
4.3 Test Environment	7
4.4 Measurement Uncertainty	7
4.5 Test Signals and Test Channels	8
4.6 Test Location	8
4.7 Test Facility	9
4.8 Deviation from Standards	9
4.9 Abnormalities from Standard Conditions	9
5 Equipment List	10
6 Radio Spectrum Matter Test Results	13
6.1 Out-of-band rejection	13
6.1.1 E.U.T. Operation	13
6.1.2 Test Setup	13
6.1.3 Measurement Record	13
6.2 Input versus output comparison	14
6.2.1 E.U.T. Operation	14
6.2.2 Test Setup	14
6.2.3 Measurement Record	14
6.3 Mean output power and amplifier/booster gain	15
6.3.1 E.U.T. Operation	15
6.3.2 Test Setup	15
6.3.3 Measurement Record	15
6.4 Out-of-band/out-of-block(including intermodulation) emissions	16
6.4.1 E.U.T. Operation	16
6.4.2 Test Setup	16
6.4.3 Measurement Record	16
6.5 Conducted Spurious emissions	17
6.5.1 E.U.T. Operation	17
6.5.2 Test Setup	17
6.5.3 Measurement Record	17
6.6 Frequency Stability	18
6.6.1 E.U.T. Operation	18
6.6.2 Test Setup	18
6.6.3 Measurement Record	18
6.7 Radiated Spurious emission (below 1GHz)	19
6.7.1 E.U.T. Operation	19



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038502

Page: 5 of 99

6.7.2	Test Setup.....	19
6.7.3	Test procedure	20
6.7.4	Measurement Record.....	20
6.8	Radiated Spurious emission (above 1GHz).....	21
6.8.1	E.U.T. Operation	21
6.8.2	Test Setup.....	21
6.8.3	Test procedure	22
6.8.4	Measurement Record.....	22
7	Test Setup Photographs	23
8	EUT Constructional Details (EUT Photos)	23
9	Appendix	24



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4 General Information

4.1 Details of EUT

Power Supply:	AC 100-240V, 50-60Hz	
Test Voltage:	AC 120V 60Hz	
Cable:	AC mains (4m, unshielded)	
Operating Temperature:	-20°C to +40°C	
Operating Humidity:	≤95%	
Frequency Range:	BRS/EBS band	Uplink: 2496-2690MHz Downlink: 2496-2690MHz
	3.45GHz Service band	Uplink: 3450-3550MHz Downlink: 3450-3550MHz
	3.7GHz Service band	Uplink: 3700-3980MHz Downlink: 3700-3980MHz
Support Technology:	LTE	
	5G NR	
EUT MIMO property:	1T1R	
Interface:	Antenna Port	3 (4.3-10 Female)
	OMT Port	1 (RJ-45)
Normal Output Power: (per antenna port)	BRS/EBS band	Uplink: 24dBm Downlink: 37dBm
	3.45GHz Service band	Uplink: 24dBm Downlink: 37dBm
	3.7GHz Service band	Uplink: 24dBm Downlink: 37dBm
Maximum Gain:	BRS/EBS band	Uplink: 90dB Downlink: 90dB
	3.45GHz Service band	Uplink: 90dB Downlink: 90dB
	3.7GHz Service band	Uplink: 90dB Downlink: 90dB
Antenna Type:	External Dedicated Antenna	
Permission Antenna Gain:	10dBi or less	
Software Version:	V0.00.00.200ST	
Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	Lenovo Xiaoxinchao 5000	PF0TNMG8
Matched load and attenuator supplied by the client	/	/	/

4.3 Test Environment

Environment Parameter	Selected Values During Test	
Relative Humidity	Ambient	
Value	Temperature (°C)	Voltage (V)
TNVN	Asmbient	AC 120
TLVL	-30	AC 102
TLVH	-30	AC 138
THVL	+50	AC 102
THVH	+50	AC 138

VN: Normal Voltage, TN: Normal Temperature

VL: Lower Extreme Voltage, VH: Higher Extreme Voltage

TL: Lower Extreme Temperature, TH: Higher Extreme Temperature

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	RF Output Power	2.4G:± 0.80dB; 5G:± 0.43dB
2	Transmitter unwanted emissions	± 4.7dB
3	Radiated Spurious Emission	± 5.7dB;± 4.7dB (1-18GHz); ± 4.7dB (18-40GHz)
4	Occupied Channel Bandwidth	± 0.27%
5	Frequency Stability	± 5.4 x 10 ⁻⁸

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.



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4.5 Test Signals and Test Channels

3.45GHz Service band: 3450-3550MHz				
Test Channel	Test Frequency (MHz)		Test Signal	Stimulus Condition
	Downlink	Uplink		
LCH	3452.5	3452.5	4.1MHz AWGN	a single test signal
MCH	3500	3500		
HCH	3547.5	3547.5		
LCH	3452.5, 3457.5	3452.5, 3457.5		two adjacent test signals
HCH	3542.5, 3547.5	3542.5, 3547.5		
MCH	3500	3500	100MHz AWGN	a single test signal
LCH	3450.4	3450.4	GSM-TDMA	a single test signal
MCH	3500	3500		
HCH	3549.6	3549.6		
LCH	3450.4, 3450.8	3450.4, 3450.8		two adjacent test signals
HCH	3549.2, 3549.6	3549.2, 3549.6		

LCH: Lowest Channel

MCH: Middle Channel

HCH: Highest Channel

DL: Downlink Path

UL: Uplink Path

The EUT cannot accommodate two simultaneous 100MHz AWGN signals within the passband.

4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

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No tests were sub-contracted.



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4.7 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-43	2025-06-16	2027-06-15
Shielding Room	CRT	N/A	SEM001-14	2025-10-13	2028-10-12
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2026-02-04	2027-02-03
MXA Signal Analyzer(10Hz-50GHz)	KEYSIGHT	N9020B	SEM004-24	2026-02-03	2027-02-02
MXA Signal Analyzer(20Hz-26.5GHz)	KEYSIGHT	N9020A	SEM004-25	2026-02-03	2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM037-01	2026-05-12	2027-05-11
Manual Step Attenuator	Agilent	8494B	SEM021-05	2026-02-02	2027-02-01
Manual Step Attenuator	Agilent	8496B	SEM021-06	2026-02-02	2027-02-01
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02
Signal Generator(9kHz-40GHz)	Agilent	N5173B	SEM006-05	2026-03-31	2027-03-30
Vector Signal Generator(100kHz-7.5GHz)	Rohde & Schwarz	SMW200A	SEM006-19	2026-07-06	2027-07-05
MXG Vector Signal Generator(100kHz-6GHz)	Agilent	N5182A	SEM006-21	2026-02-03	2027-02-02
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2026-02-03	2027-02-02
Radio Communication Analyzer	Anritsu	MT8821C	SEM010-04	2026-02-04	2027-02-03
Radio Communication Test Station	Anritsu	MT8000A	SZ-WRG-M-013	2026-04-28	2027-04-27



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Report No.: FYCR260800038502

Page: 11 of 99

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi- Anechoic Chambe	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2026-07-03	2027-07-02
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-26	2025-09-03	2027-09-02
Pre-Amplifier	HP	8447D	SEM005-02	2026-07-07	2027-07-06
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-01	2026-05-12	2027-05-11
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-43	2025-06-16	2027-06-15

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026-03-04	2027-03-03
Horn Antenna	Schwarzbeck	BBHA 9120 D	SEM003-54	2025-05-24	2028-05-23
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-29	2028-07-28
Pre-amplifier(0.4GHz-8GHz)	TST	LNA04080G30	SEM005-27	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G45	SEM005-28	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G60	SEM005-32	2026-04-04	2027-04-03
Pre-amplifier(18GHz-40GHz)	TST	LNA180400G40	SEM005-39	2026-04-29	2027-04-28
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-02	2026-05-12	2027-05-11
Coaxial Cable	SGS	N/A	SEM035-03	2026-05-12	2027-05-11



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038502

Page: 12 of 99

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/Temperature Indicator	deli	8838	SEM002-52	2026-07-08	2027-07-07
Humidity/Temperature Indicator	deli	8838	SEM002-53	2026-07-08	2027-07-07
Barometer	DUMAI	DYM3	SEM002-24	2026-07-10	2027-07-09



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6 Radio Spectrum Matter Test Results

6.1 Out-of-band rejection

Test Requirement: KDB 935210 D05 clause 3.3

Test Method: KDB 935210 D05 clause 3.3

Limit: Within the passband

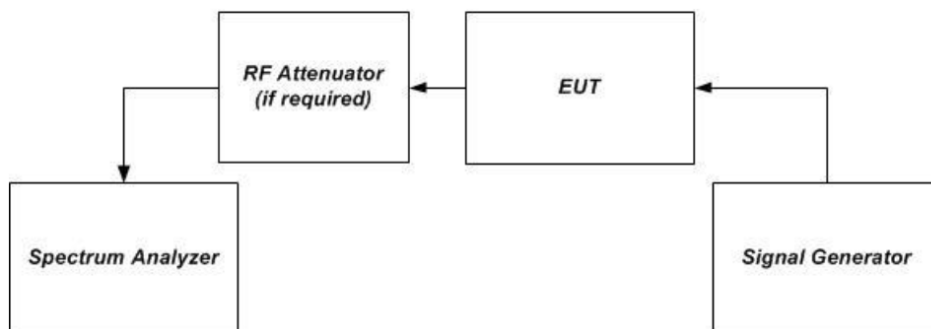
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.1.2 Test Setup



6.1.3 Measurement Record

Please Refer to Appendix for Details



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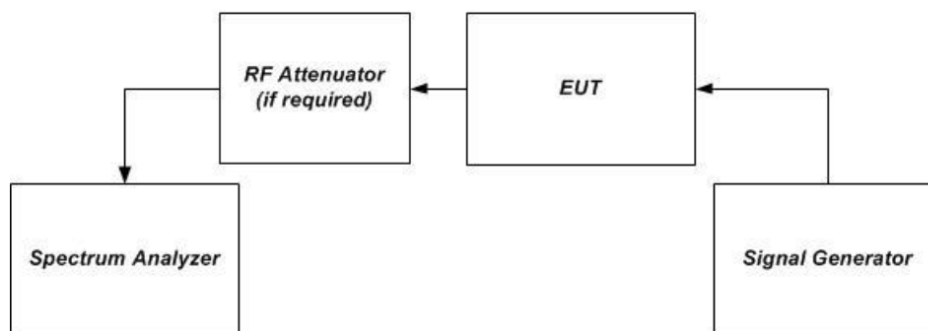
6.2 Input versus output comparison

Test Requirement: 47 CFR Part 2.1049
 Test Method: KDB 935210 D05 clause 3.4
 Limit: The spectral plots of the output signal and the input signal are similar (in passband and rolloff characteristic features and relative spectral locations).

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar
 EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.2.2 Test Setup



6.2.3 Measurement Record

Please Refer to Appendix for Details



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6.3 Mean output power and amplifier/booster gain

Test Requirement: 47 CFR Part 27.50(k)(2), Part 27.50(k)(4)
 Test Method: KDB 935210 D05 clause 3.5
 Limit:
 1. The EIRP limit is 1640W/MHz.
 2. The PAR limit is 13dB.

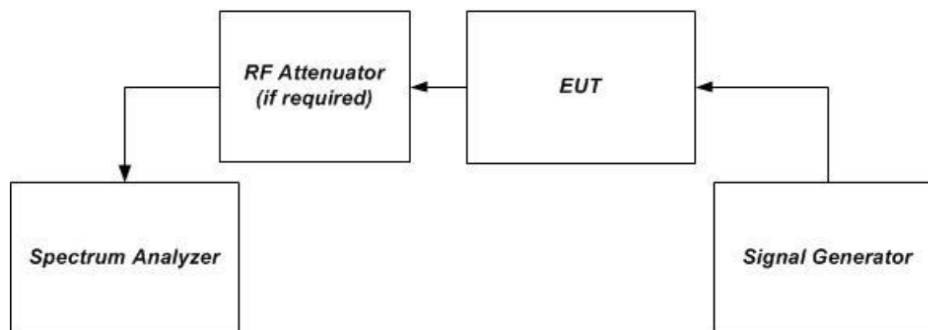
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.3.2 Test Setup



6.3.3 Measurement Record

Please Refer to Appendix for Details



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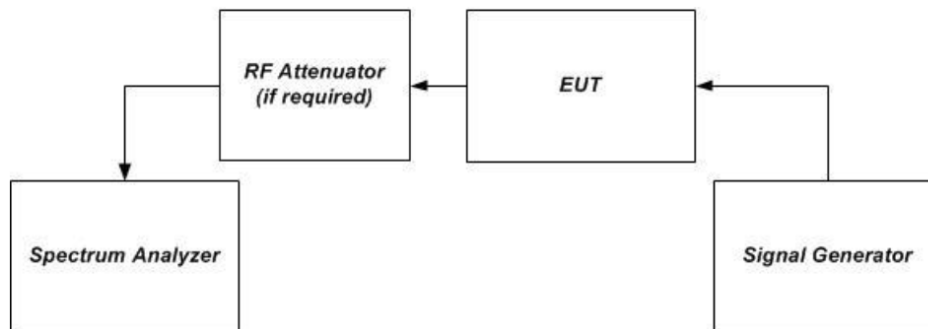
6.4 Out-of-band/out-of-block(including intermodulation) emissions

Test Requirement: 47 CFR Part 27.53(n)(1)
 Test Method: KDB 935210 D05 clause 3.6
 Limit: For base station operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar
 EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.4.2 Test Setup



6.4.3 Measurement Record

Please Refer to Appendix for Details



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6.5 Conducted Spurious emissions

Test Requirement: 47 CFR Part 27.53(n)(1)

Test Method: KDB 935210 D05 clause 3.6

Limit: For base station operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Notwithstanding the channel edge requirement of -13 dBm per megahertz, for base station operations in the 3450-3550 MHz band, the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed -40 dBm/MHz.

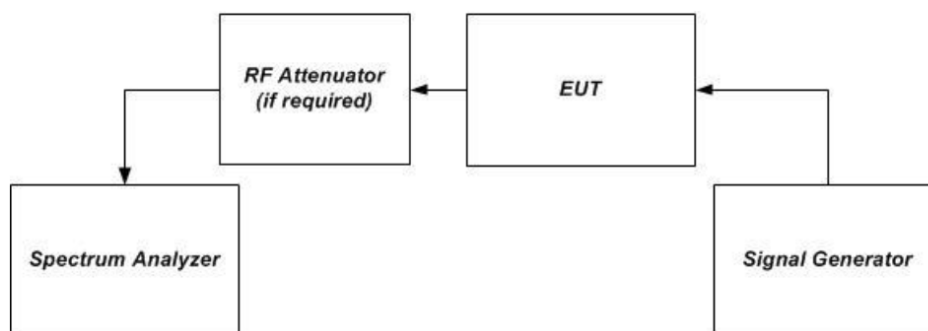
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.5.2 Test Setup



6.5.3 Measurement Record

Please Refer to Appendix for Details



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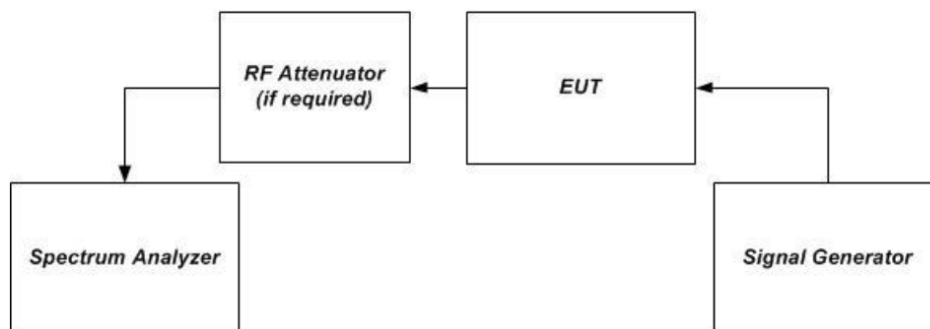
6.6 Frequency Stability

Test Requirement: 47 CFR Part 2.1055
 Test Method: KDB 935210 D05 clause 3.7
 ANSI C63.26-2015 clause 5.6
 Limit: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

6.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar
 EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.6.2 Test Setup



6.6.3 Measurement Record

Please Refer to Appendix for Details



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6.7 Radiated Spurious emission (below 1GHz)

Test Requirement: 47 CFR Part 27.53(n)(1)

Test Method: KDB 935210 D05 clause 3.8
ANSI C63.26-2015 clause 5.5

Test Distance: 3m

Limit: For base station operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Notwithstanding the channel edge requirement of -13 dBm per megahertz, for base station operations in the 3450-3550 MHz band, the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed -40 dBm/MHz.

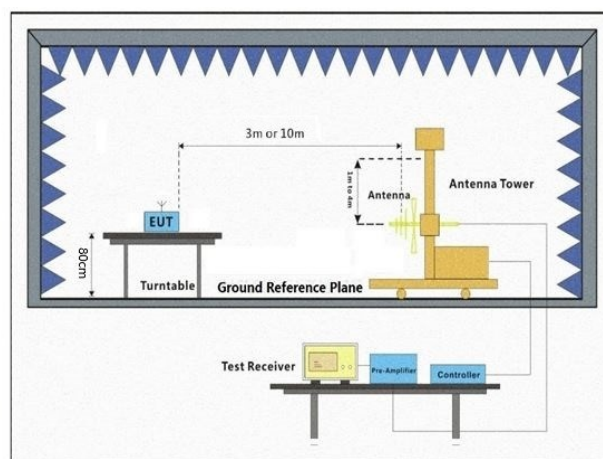
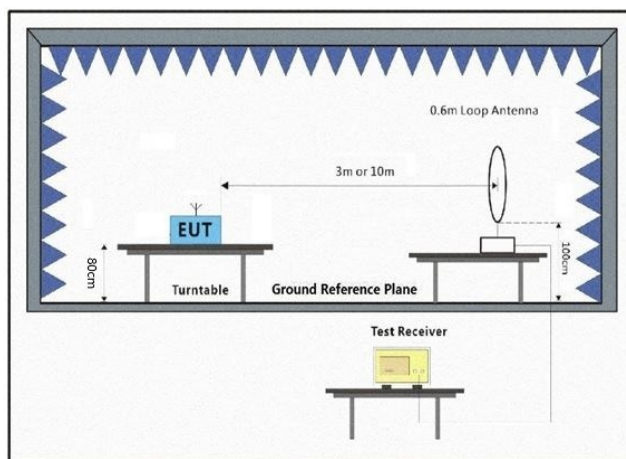
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 57.8 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.7.2 Test Setup



6.7.3 Test procedure

1. Scan from 30MHz to 40GHz, find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Below 1GHz test procedure as below:

- 1) The EUT was powered on and placed on a table in the chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) Rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3) Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6) The output power into the substitution antenna was then measured.
- 7) Steps 5) and 6) were repeated with both antennas vertically polarized.
- 8) Calculate power in dBm by the following formula:
Level (dBm) = Read Level (dBm) + Correction Factor (dB)

6.7.4 Measurement Record

Please Refer to Appendix for Details



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6.8 Radiated Spurious emission (above 1GHz)

Test Requirement: 47 CFR Part 27.53(n)(1)

Test Method: KDB 935210 D05 clause 3.7
ANSI C63.26-2015 clause 5.6

Limit: For base station operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Notwithstanding the channel edge requirement of -13 dBm per megahertz, for base station operations in the 3450-3550 MHz band, the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed -40 dBm/MHz.

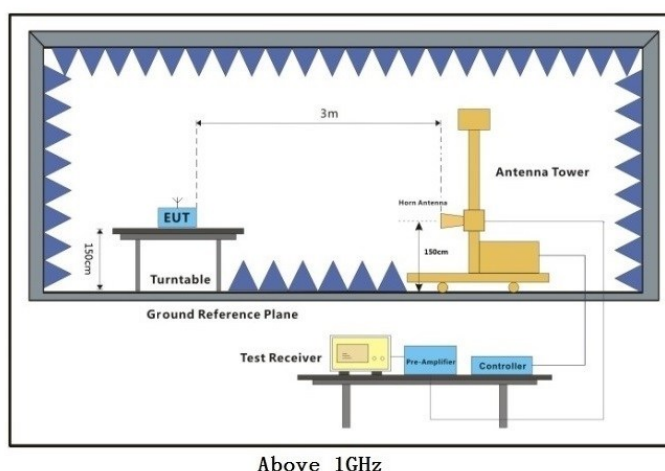
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 59 % RH Atmospheric Pressure: 1008 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

6.8.2 Test Setup



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6.8.3 Test procedure

1. Scan from 1GHz to 40GHz, find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.
 - 1) The EUT was powered on and placed on a table in the fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
 - 2) Rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
 - 3) Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
 - 4) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
 - 5) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
 - 6) The output power into the substitution antenna was then measured.
 - 7) Steps 5) and 6)were repeated with both antennas vertically polarized.
 - 8) Calculate power in dBm by the following formula:

$$\text{Level (dBm)} = \text{Read Level (dBm)} + \text{Correction Factor (dB)}$$

6.8.4 Measurement Record

Please Refer to Appendix for Details



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7 Test Setup Photographs

Refer to Appendix - Test Setup Photos for FYCR260800038502.

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2608000385AT.

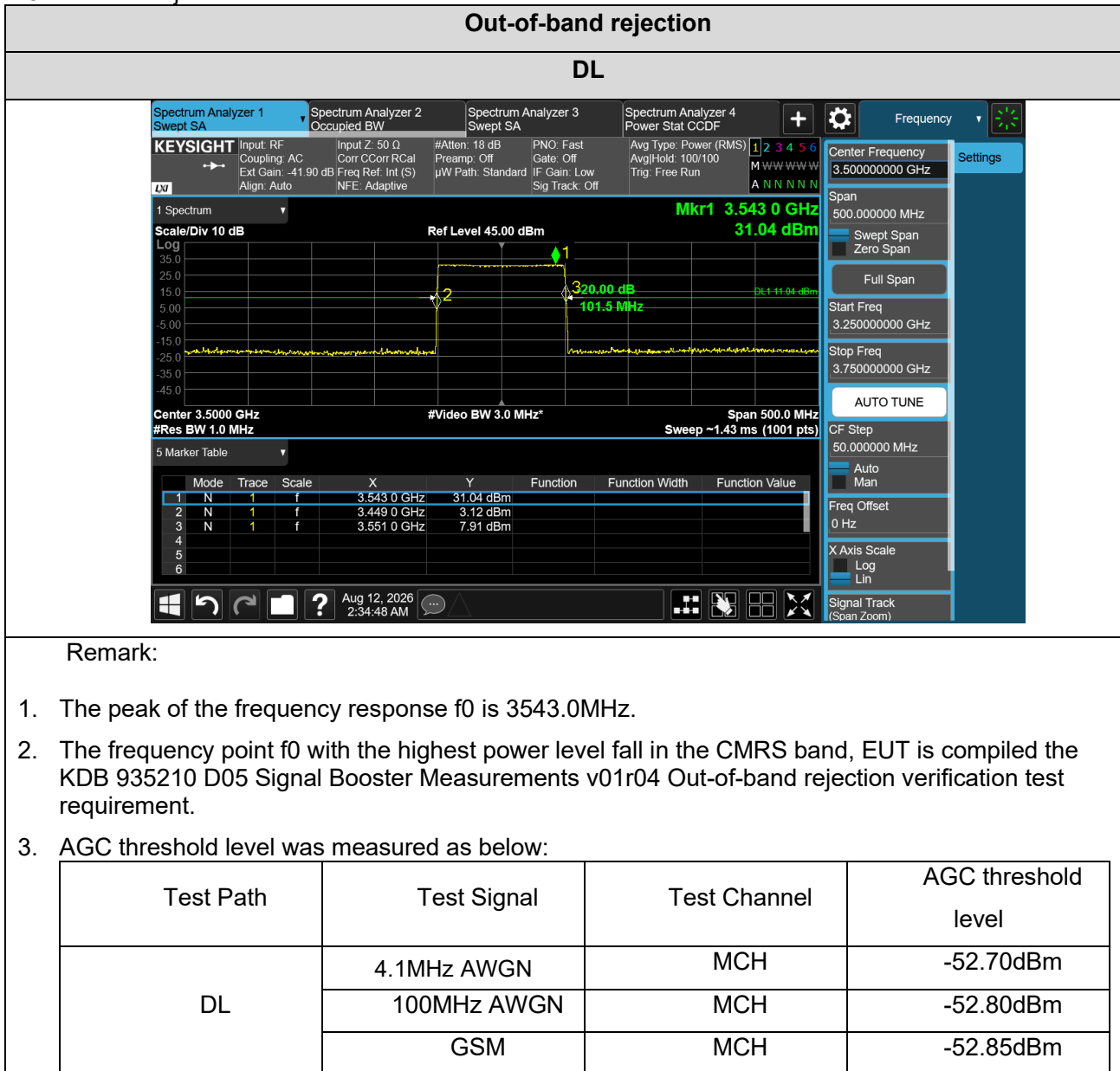


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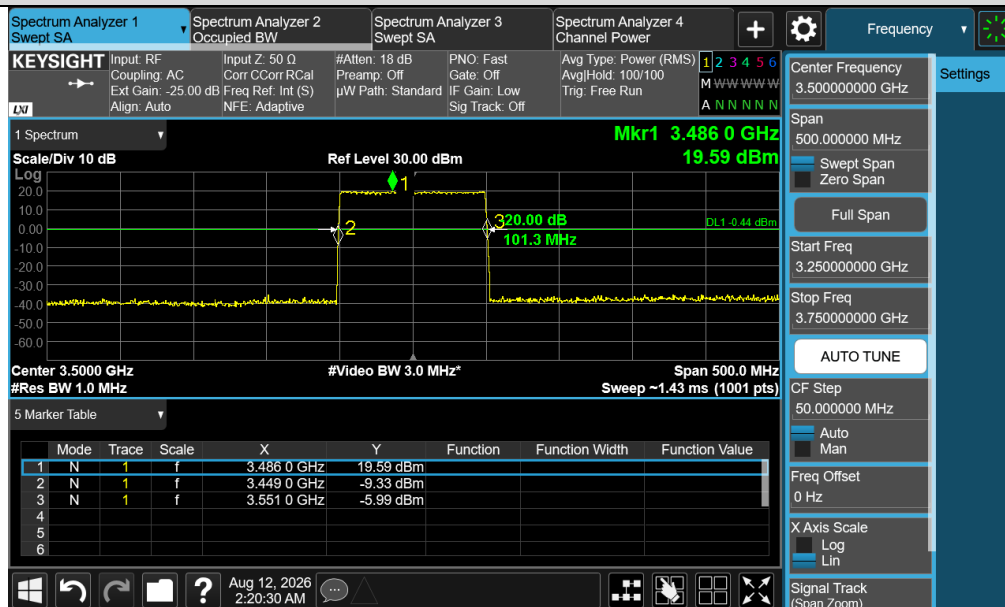
9 Appendix

1 Out-of-band rejection



Out-of-band rejection

UL



Remark:

- The peak of the frequency response f_0 is 3486.0MHz.
- The frequency point f_0 with the highest power level fall in the CMRS band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.
- AGC threshold level was measured as below:

Test Path	Test Signal	Test Channel	AGC threshold level
DL	4.1MHz AWGN	MCH	-65.85dBm
	100MHz AWGN	MCH	-65.80dBm
	GSM	MCH	-65.85dBm



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2 Input versus Output comparison

Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	4.1MHz AWGN	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
	100MHz AWGN	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
	GSM	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
UL	4.1MHz AWGN	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
	100MHz AWGN	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
	GSM	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
Remark: Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.				



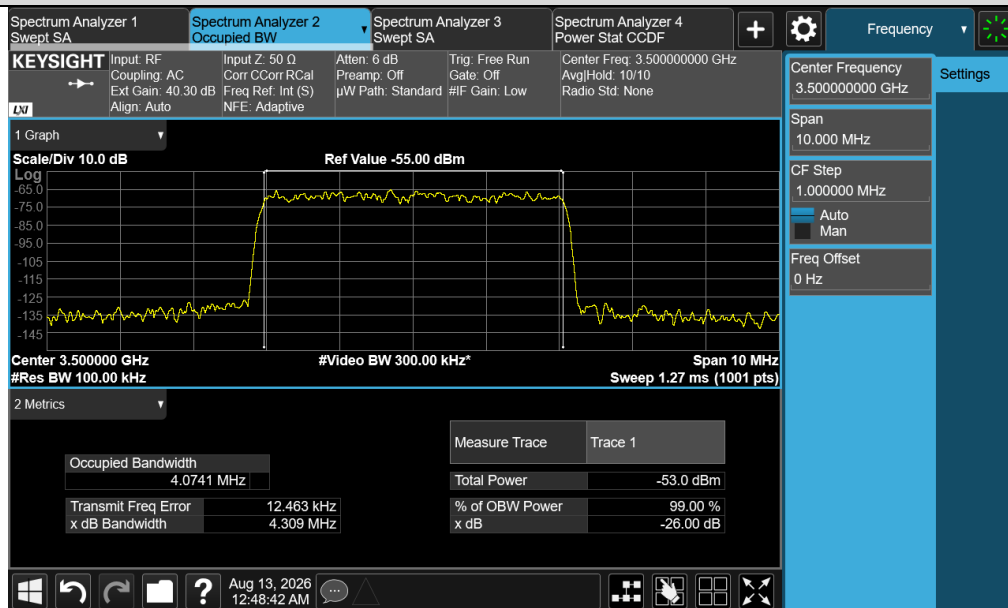
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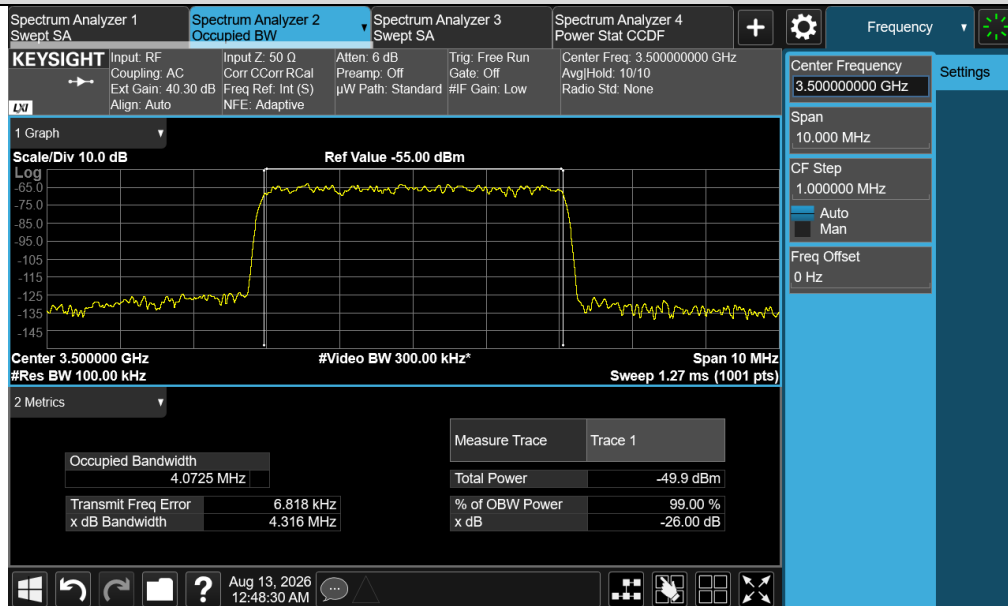
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99% OBW

DL_4.1MHz AWGN_MCH_Input_Pre-AGC



DL_4.1MHz AWGN_MCH_Input_3dB above AGC



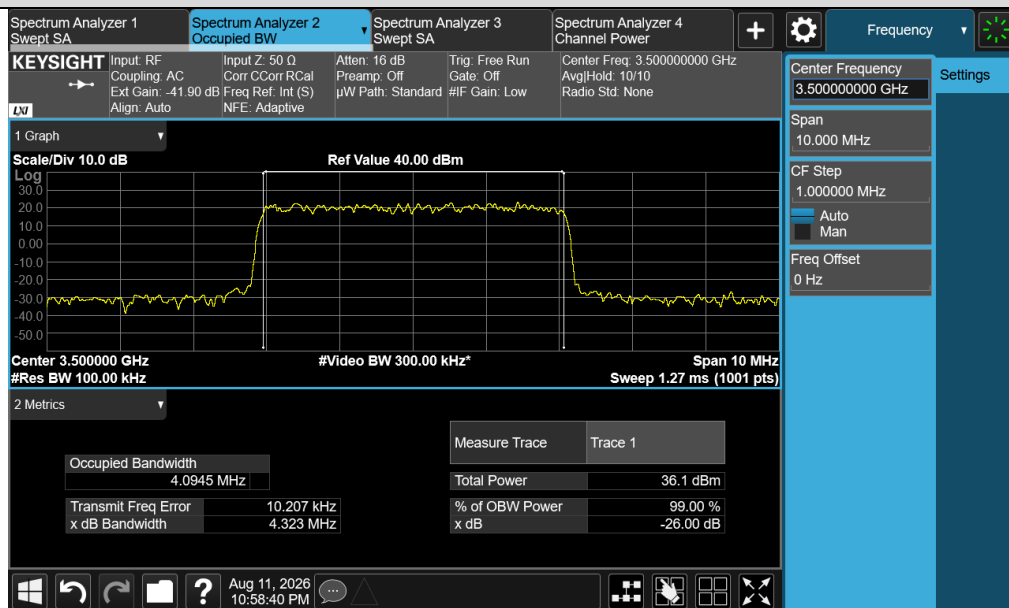
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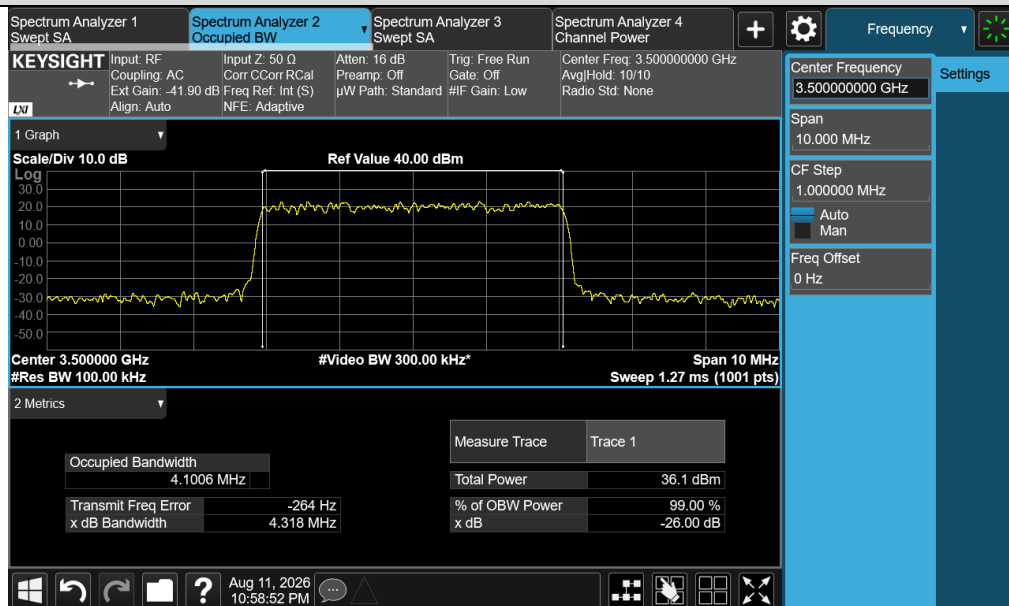
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DL_4.1MHz AWGN_MCH_Output_Pre-AGC



DL_4.1MHz AWGN_MCH_Output_3dB above AGC



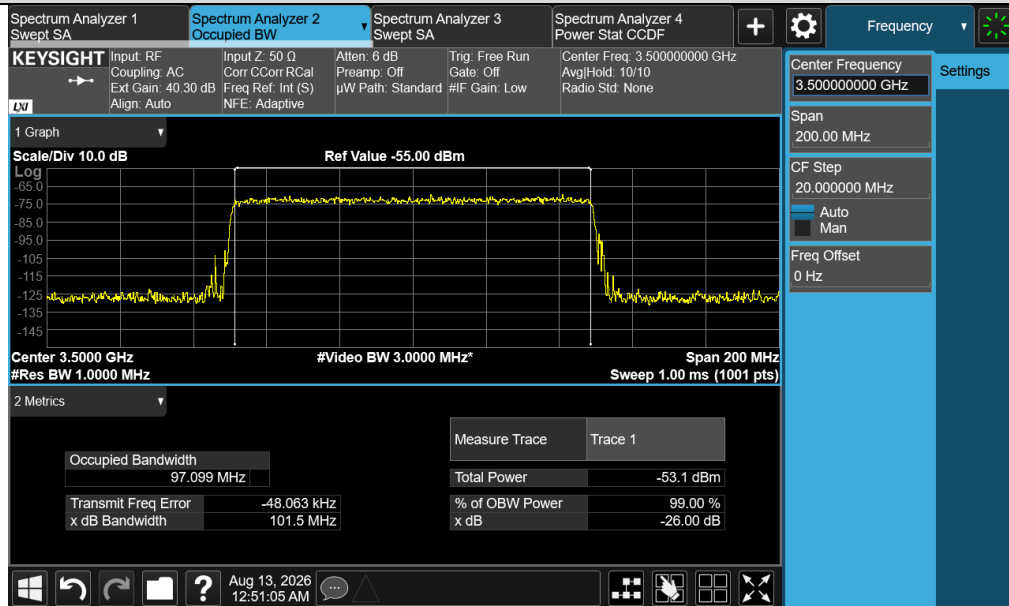
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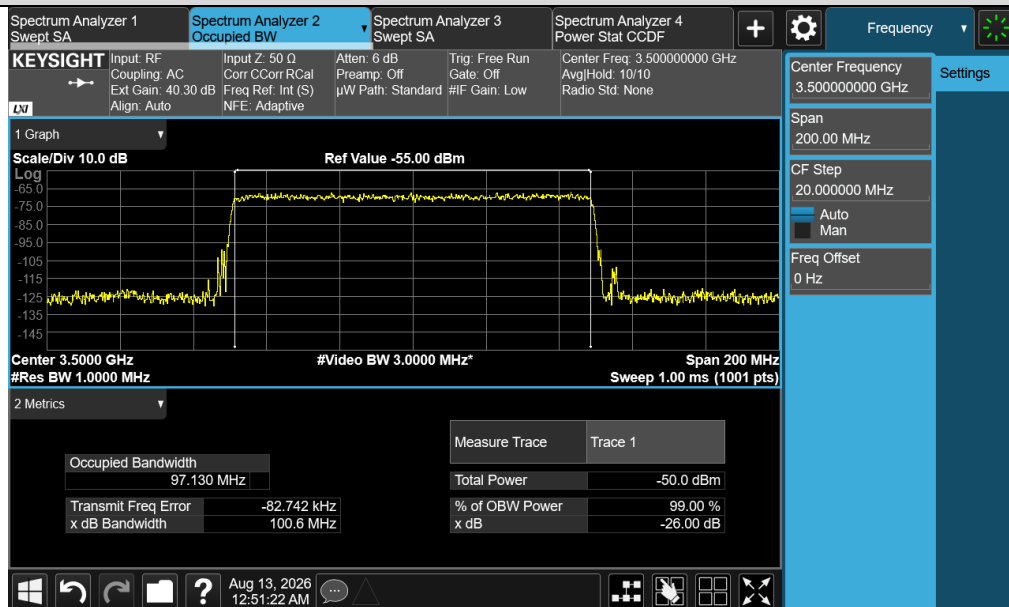
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DL_100MHz AWGN_MCH_Input_Pre-AGC

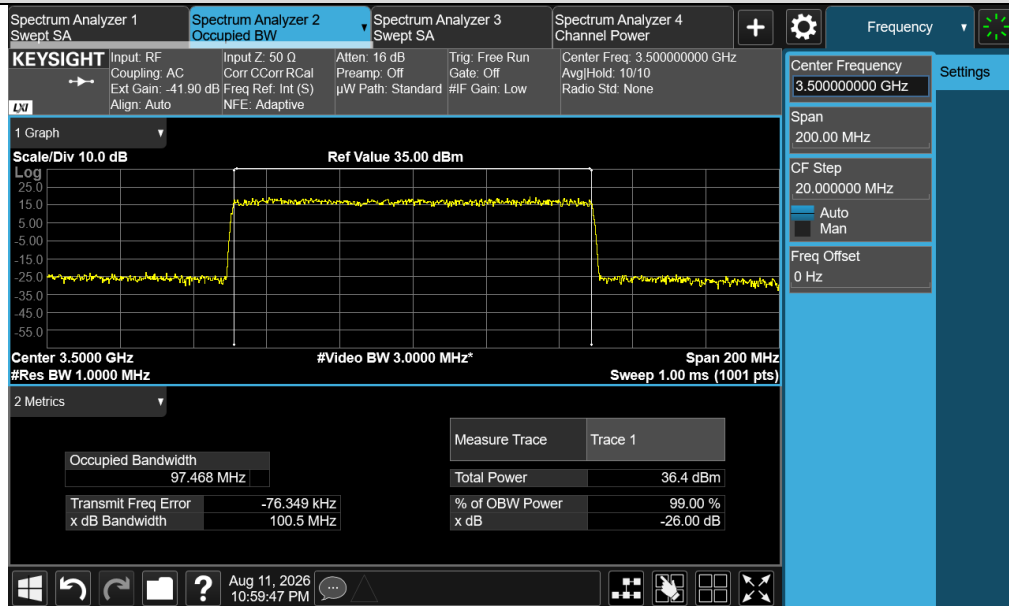


DL_100MHz AWGN_MCH_Input_3dB above AGC

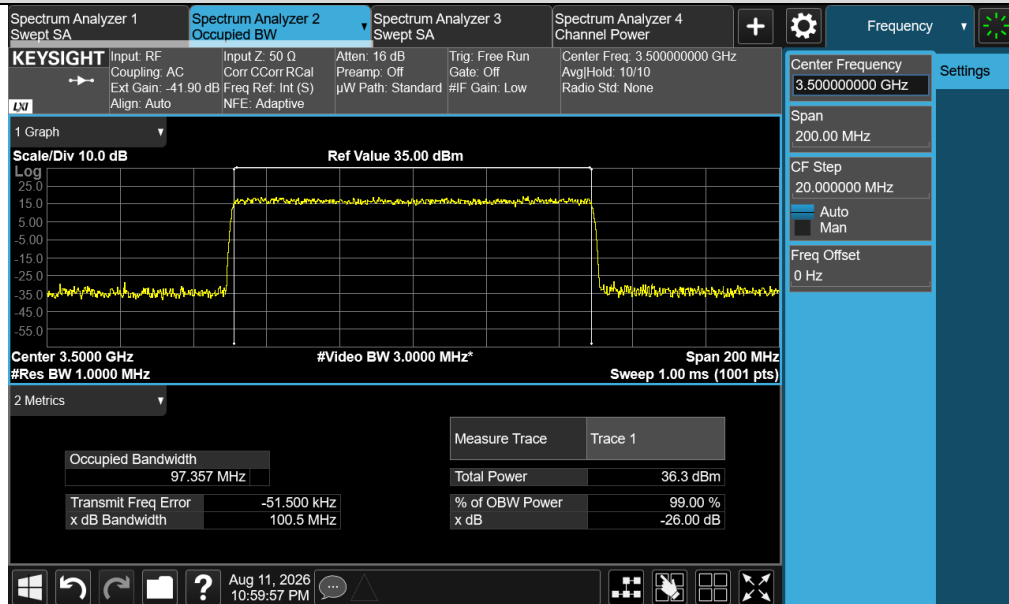


99% OBW

DL_100MHz AWGN_MCH_Output_Pre-AGC



DL_100MHz AWGN_MCH_Output_3dB above AGC



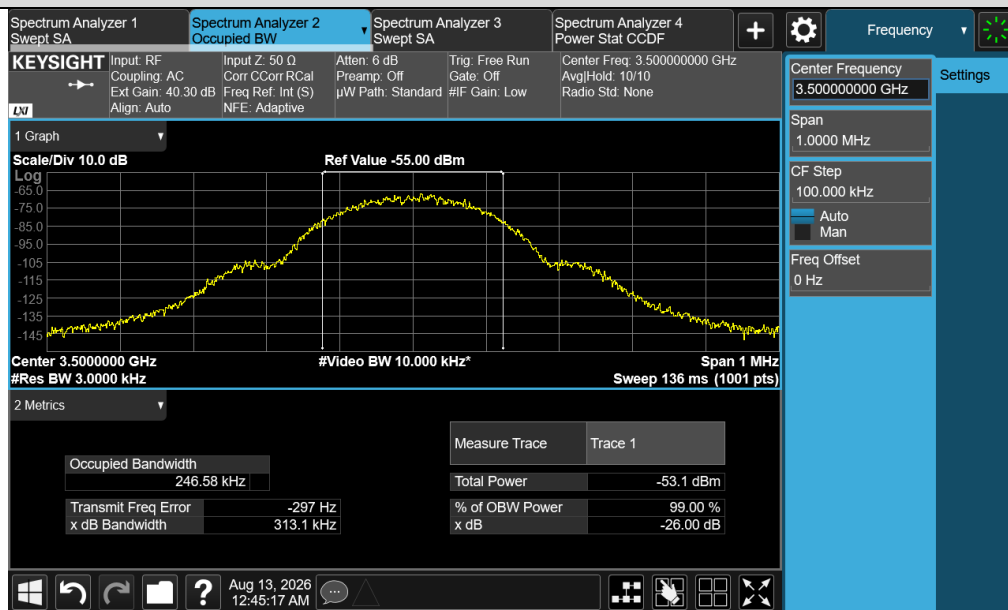
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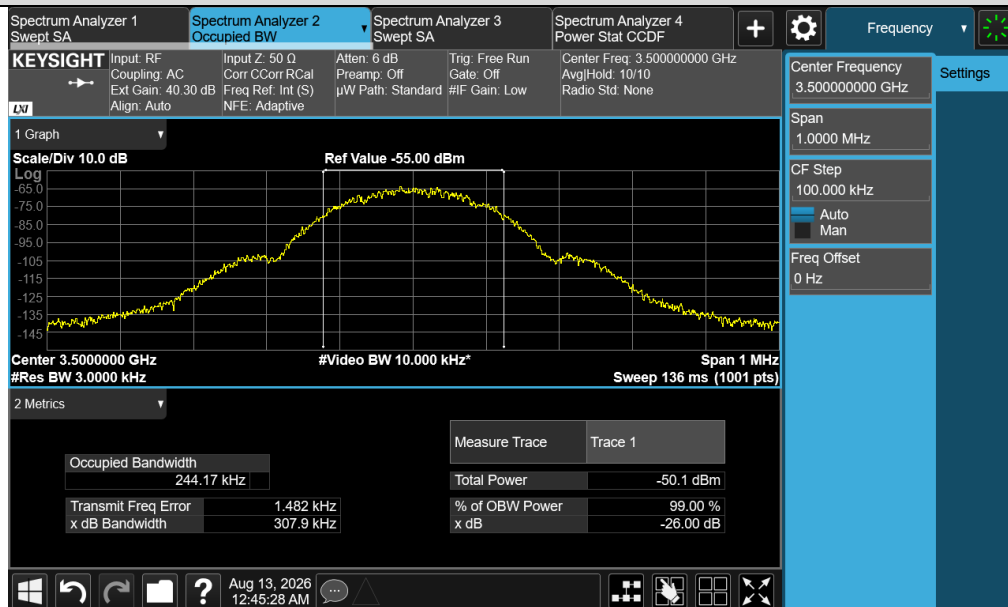
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DL_GSM_MCH_Input_Pre-AGC



DL_GSM_MCH_Input_3dB above AGC



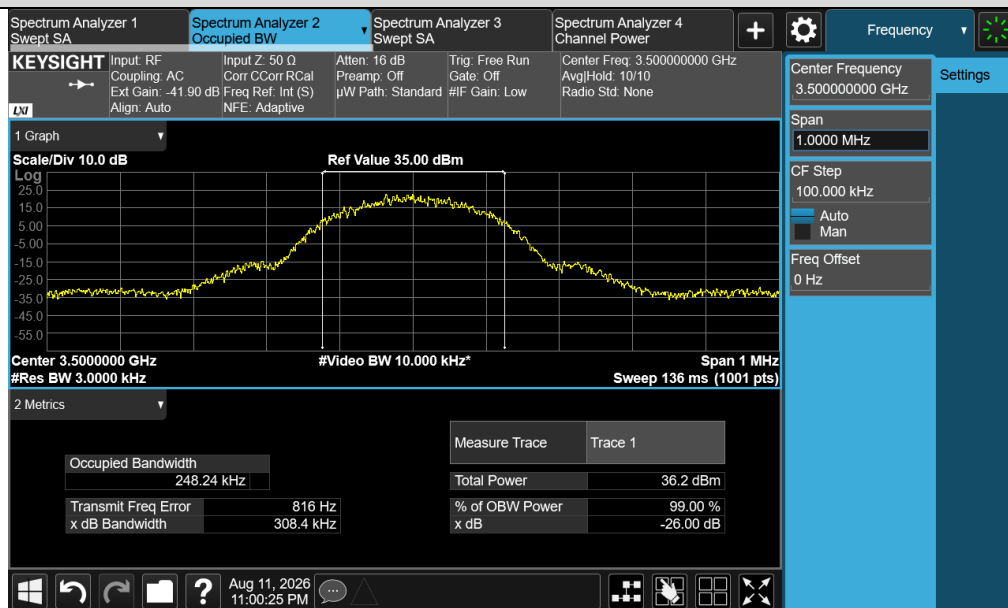
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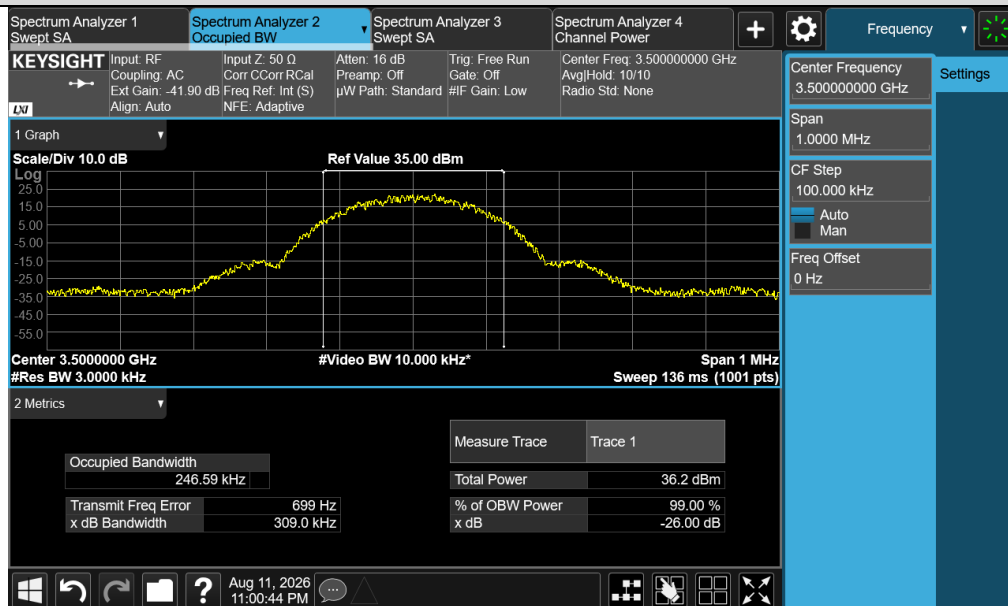
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DL_GSM_MCH_Output_Pre-AGC



DL_GSM_MCH_Output_3dB above AGC



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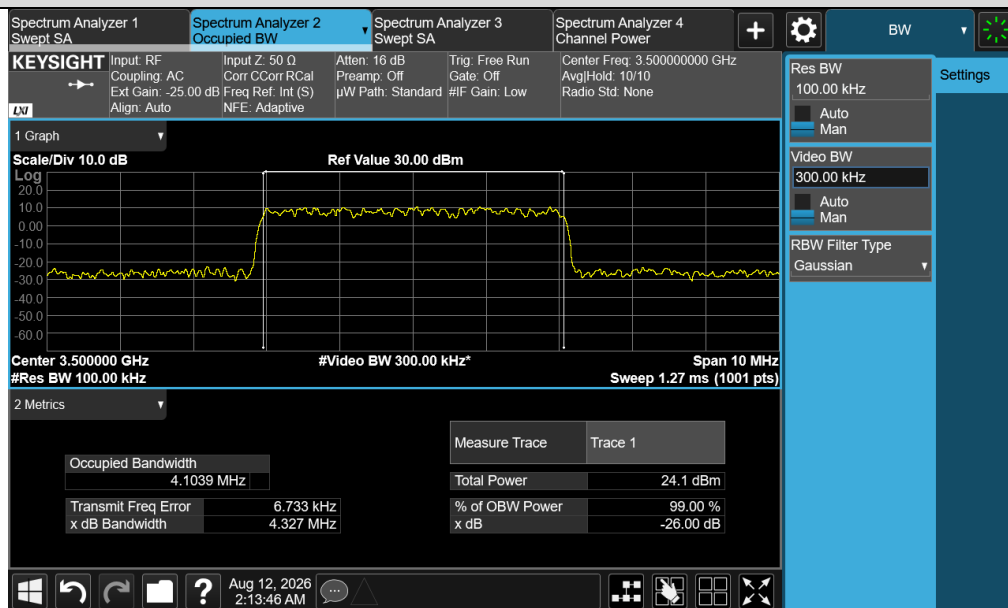
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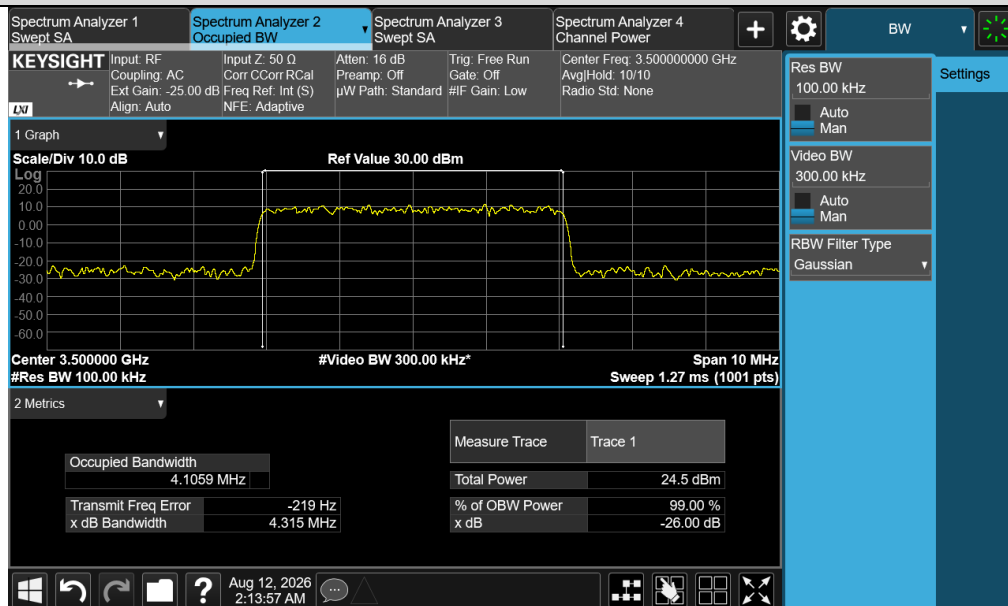
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UL_4.1MHz AWGN_MCH_Output_Pre-AGC



UL_4.1MHz AWGN_MCH_Output_3dB above AGC



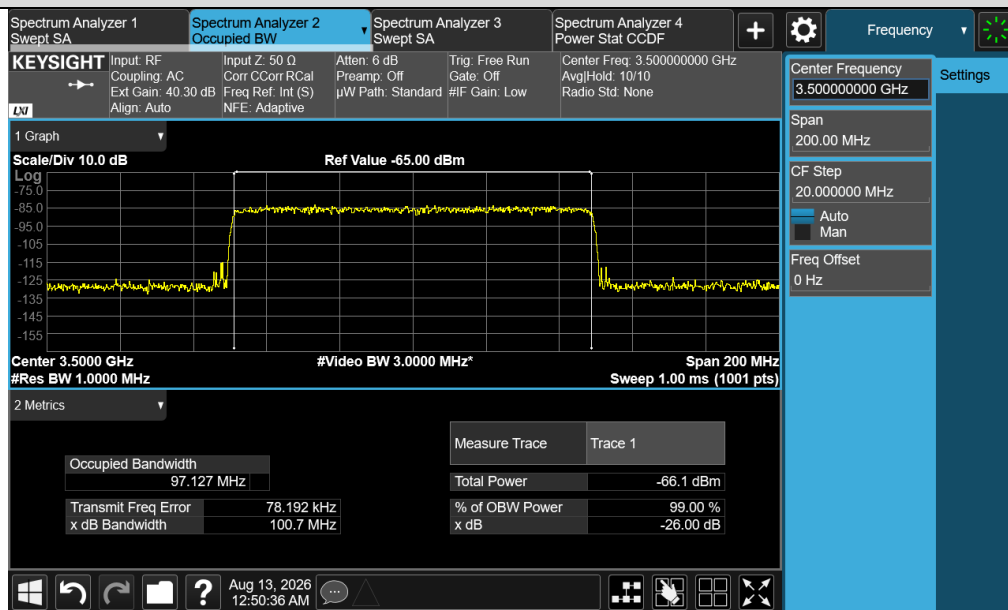
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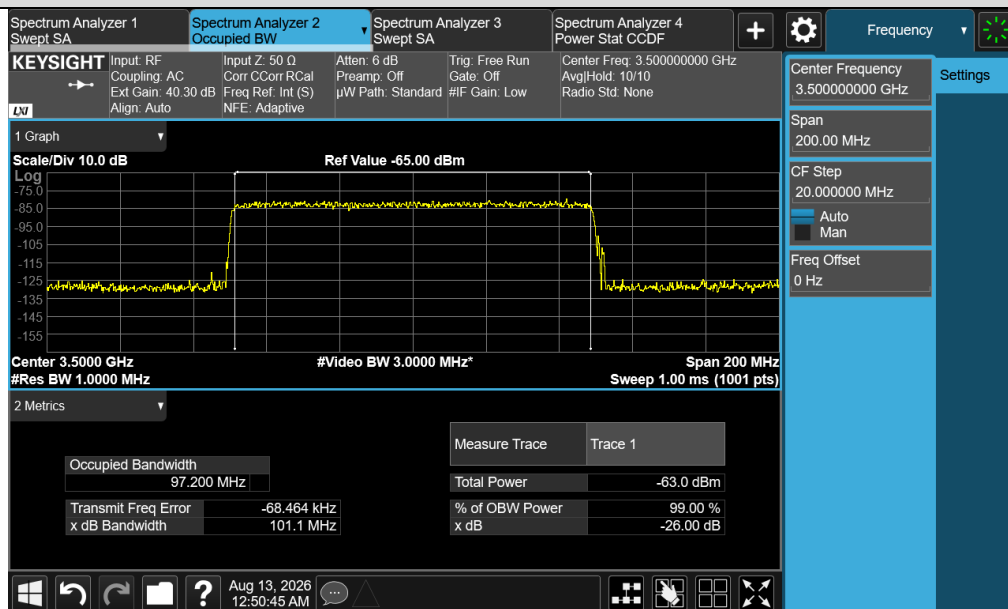
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UL_100MHz AWGN_MCH_Input_Pre-AGC



UL_100MHz AWGN_MCH_Input_3dB above AGC

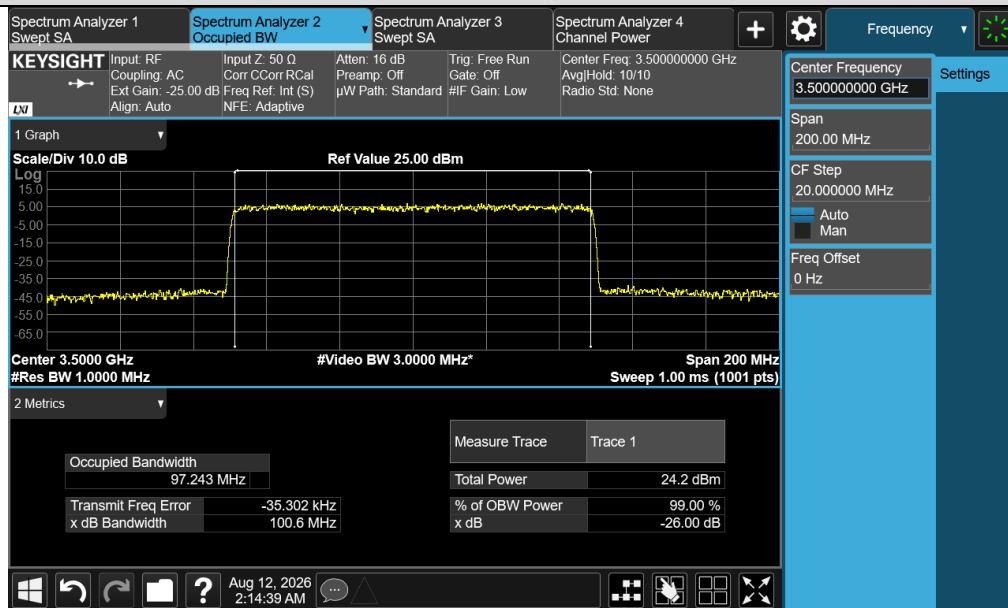


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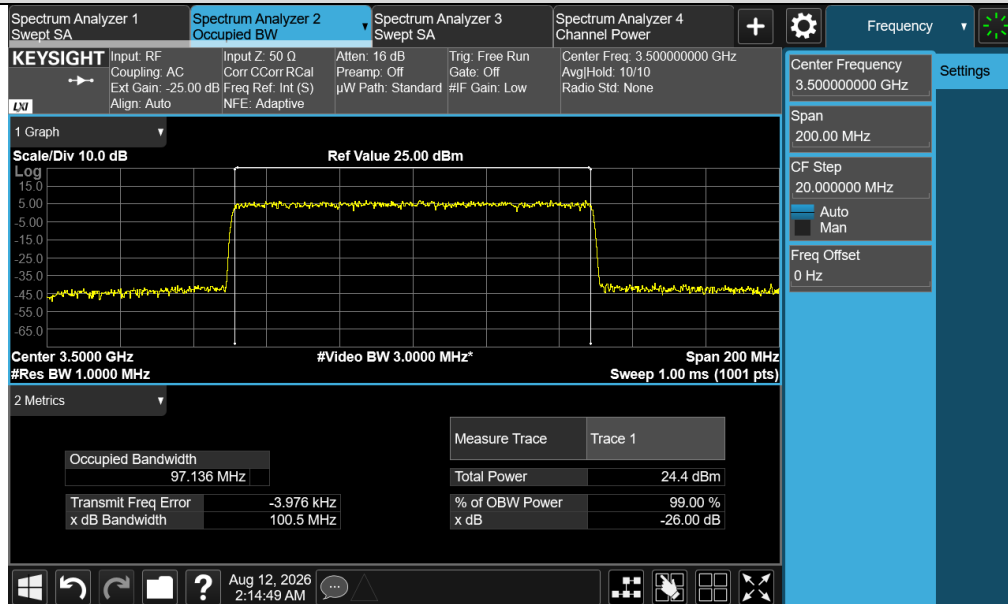
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99% OBW

UL_100MHz AWGN_MCH_Output_Pre-AGC



UL_100MHz AWGN_MCH_Output_3dB above AGC



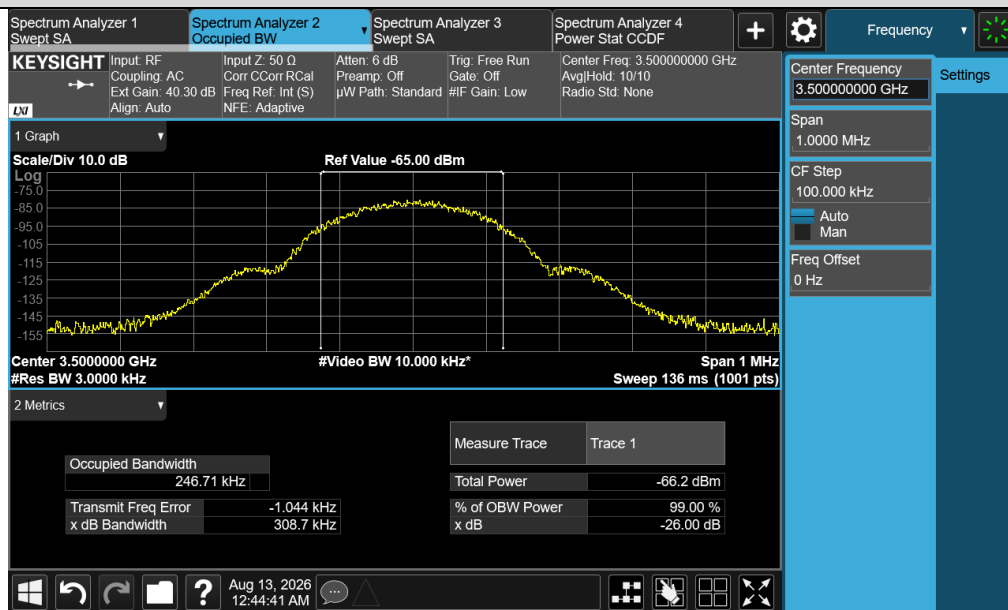
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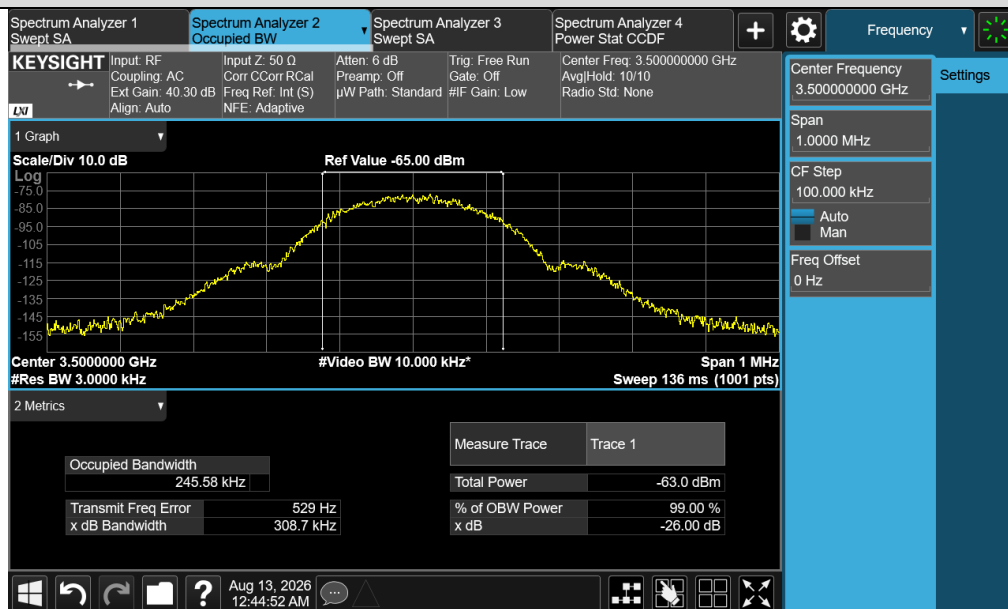
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99% OBW

UL_GSM_MCH_Input_Pre-AGC



UL_GSM_MCH_Input_3dB above AGC

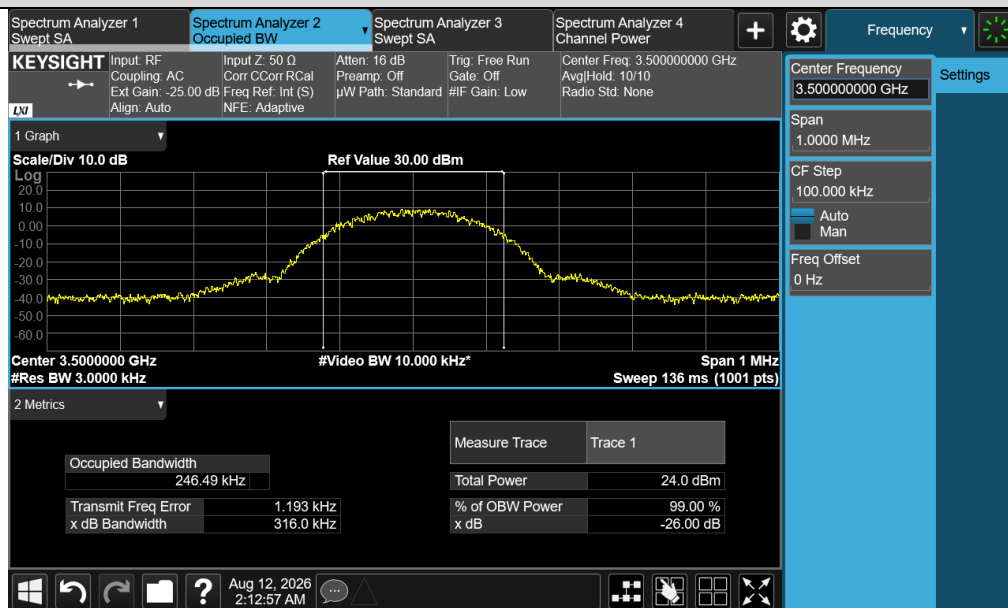


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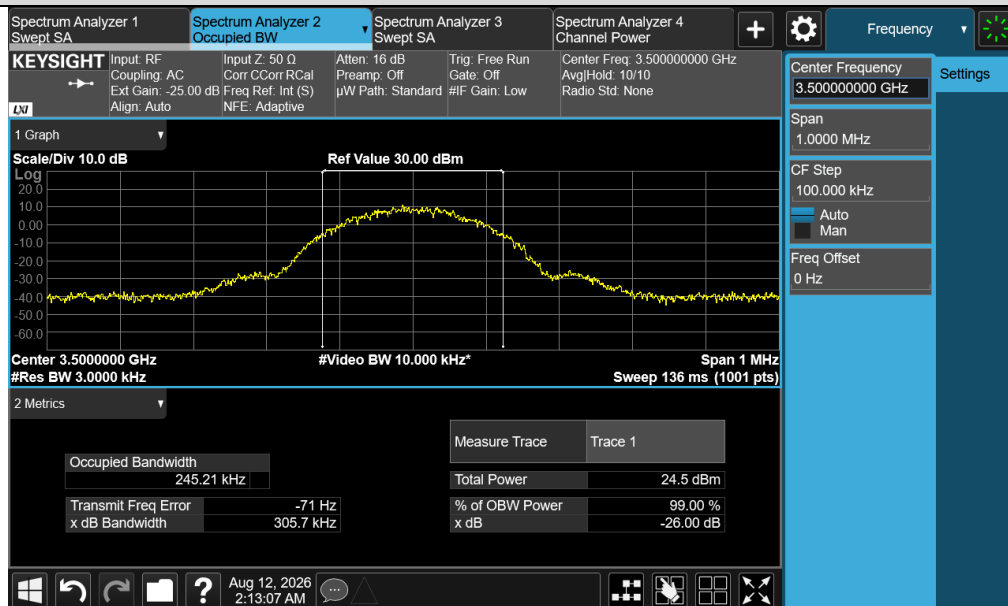
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99% OBW

UL_GSM_MCH_Output_Pre-AGC



UL_GSM_MCH_Output_3dB above AGC



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038502

Page: 39 of 99

3 Mean output power and amplifier/booster gain

Mean output power and gain								
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	EIRP (dBm)	EIRP (W)	Gain (dB)
DL	3543.0	4.1MHz AWGN	Pre-AGC	-53	36.52	46.52	44.88	89.52
			3dB above AGC	-50	36.57	46.57	45.40	/
		100MHz AWGN	Pre-AGC	-53	35.90	45.90	38.91	88.90
			3dB above AGC	-50	36.28	46.28	42.47	/
		GSM	Pre-AGC	-53	36.11	46.11	40.84	89.11
			3dB above AGC	-50	36.37	46.37	43.36	/

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer.

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	EIRP (dBm/MHz)	EIRP (W/MHz)	Verdict
DL	3543.0	4.1MHz AWGN	Pre-AGC	26.30	36.30	4.27	PASS
			3dB above AGC	26.33	36.33	4.30	PASS
		100MHz AWGN	Pre-AGC	15.11	25.11	0.33	PASS
			3dB above AGC	15.17	25.17	0.33	PASS
		GSM	Pre-AGC	36.11	46.11	40.84	PASS
			3dB above AGC	36.37	46.37	43.36	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer.
- The output power is limited to an EIRP of 1640W/MHz.



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038502

Page: 40 of 99

Mean output power and gain								
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	EIRP (dBm)	EIRP (W)	Gain (dB)
UL	3486.0	4.1MHz AWGN	Pre-AGC	-66	24.29	34.29	2.69	90.29
			3dB above AGC	-63	24.81	34.81	3.03	/
		100MHz AWGN	Pre-AGC	-66	24.52	34.52	2.84	90.52
			3dB above AGC	-63	24.87	34.87	3.07	/
		GSM	Pre-AGC	-66	24.71	34.71	2.96	90.71
			3dB above AGC	-63	24.78	34.78	3.01	/

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi declared by the manufacturer.

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	EIRP (dBm/MHz)	EIRP (W/MHz)	Verdict
UL	3486.0	4.1MHz AWGN	Pre-AGC	17.31	27.31	0.53	PASS
			3dB above AGC	17.83	27.83	0.61	PASS
		100MHz AWGN	Pre-AGC	4.51	14.51	0.03	PASS
			3dB above AGC	4.83	14.83	0.04	PASS
		GSM	Pre-AGC	24.71	34.71	2.96	PASS
			3dB above AGC	24.78	34.78	3.01	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi declared by the manufacturer.
- The output power is limited to an EIRP of 1640W/MHz.



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038502

Page: 41 of 99

Peak-to-average ratio (PAR)						
Test path	Test freq. f0 (MHz)	Test Signal	Signal level	PAR (dB)	Limit (dB)	Verdict
DL	3543.0	4.1MHz AWGN	Pre-AGC	9.91	≤13	PASS
			3dB above AGC	9.93		PASS
		100MHz AWGN	Pre-AGC	9.64		PASS
			3dB above AGC	9.63		PASS
UL	3486.0	4.1MHz AWGN	Pre-AGC	9.87	≤13	PASS
			3dB above AGC	9.81		PASS
		100MHz AWGN	Pre-AGC	9.53		PASS
			3dB above AGC	9.49		PASS
Remark: The GSM signal is narrow band signal with extremity low PAR values (the worst case is lower than 0.3dB), so only the test plots for 4.1MHz and 100MHz AWGN were record in the report for demonstrate PAR compliance.						



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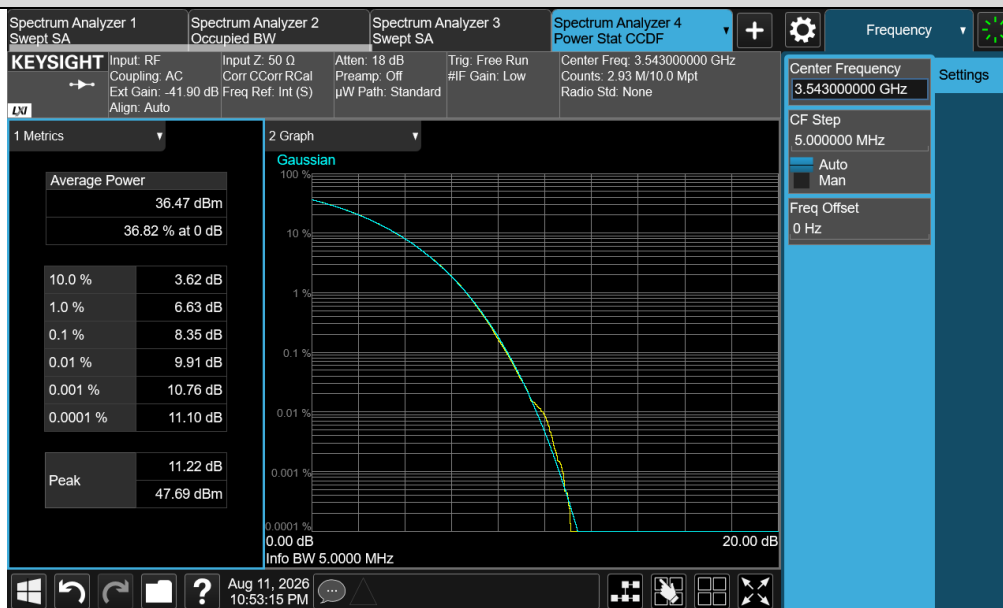
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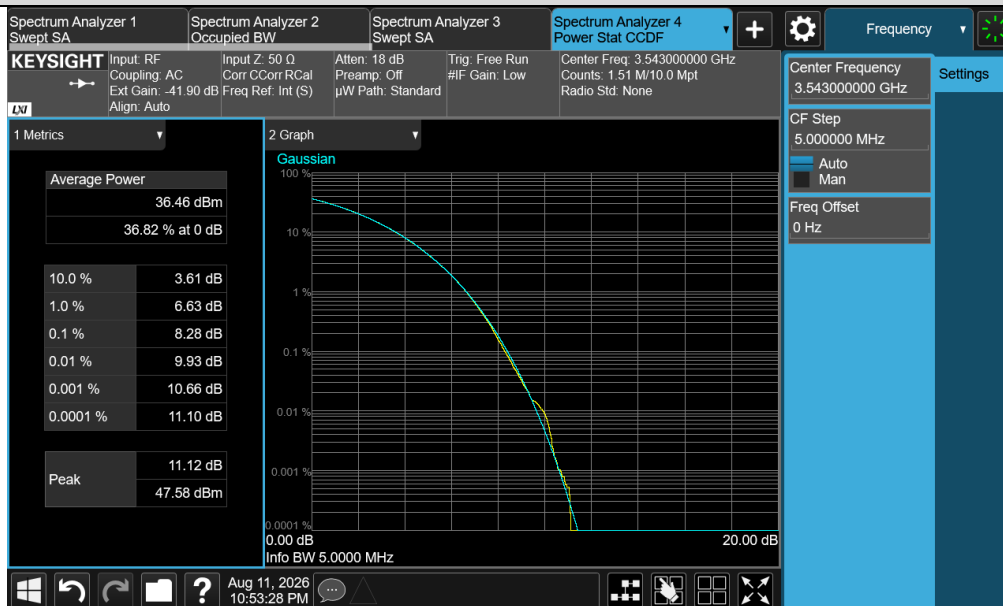
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Peak-to-average ratio (PAR)

DL_4.1MHz AWGN_Pre-AGC



DL_4.1MHz AWGN_3dB above AGC



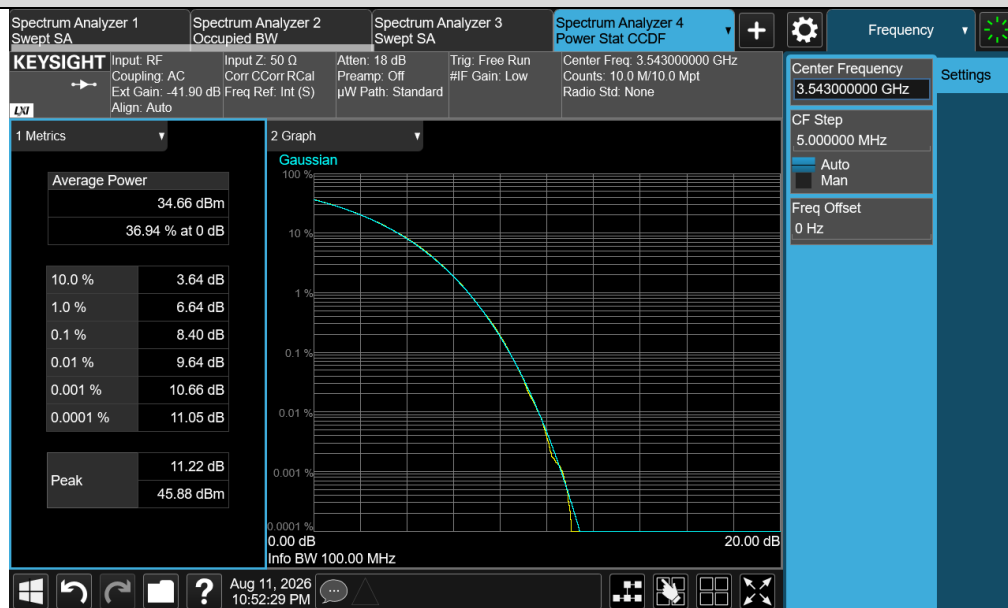
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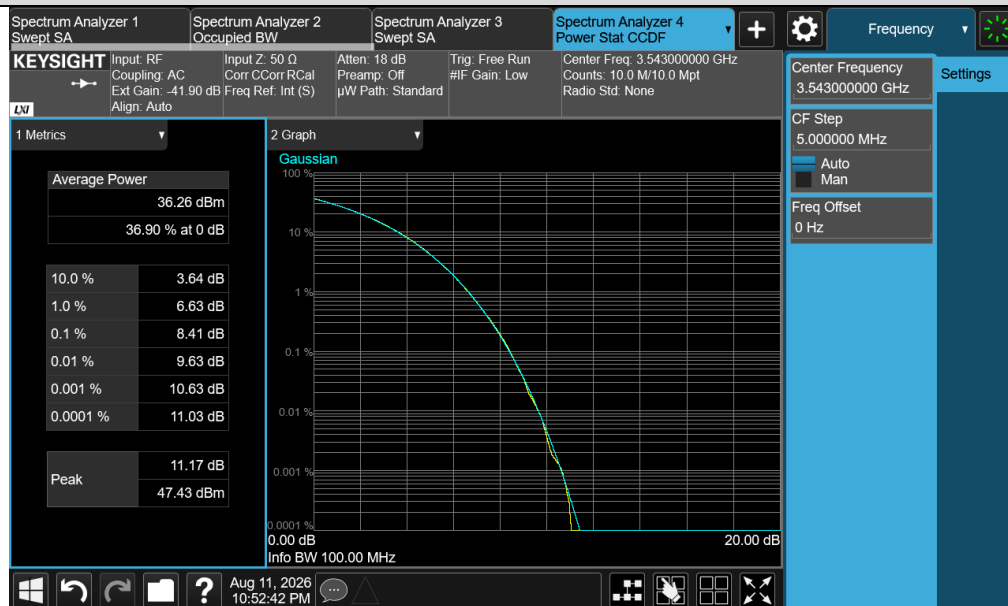
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Peak-to-average ratio (PAR)

DL_100MHz AWGN_Pre-AGC



DL_100MHz AWGN_3dB above AGC



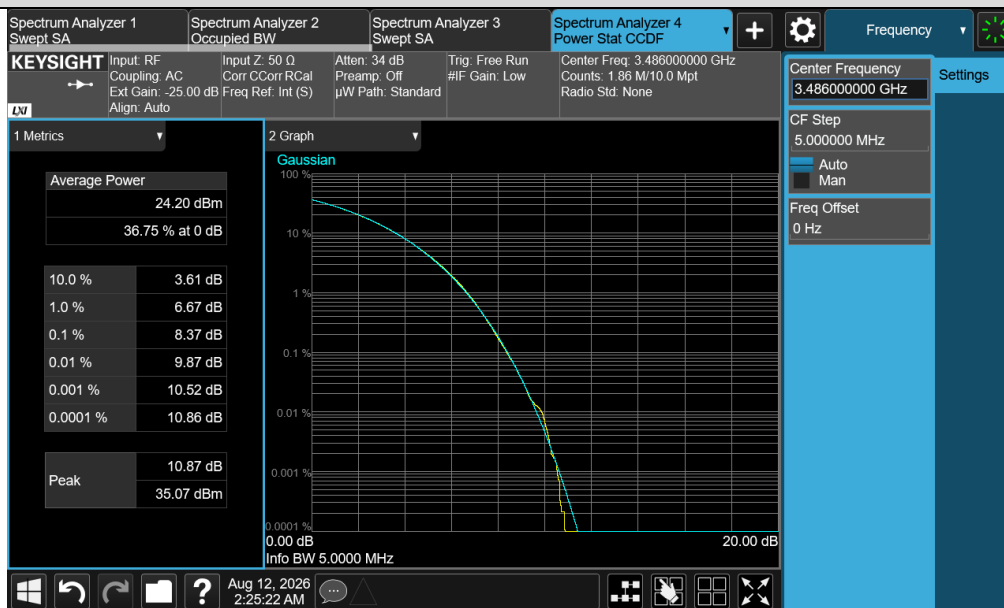
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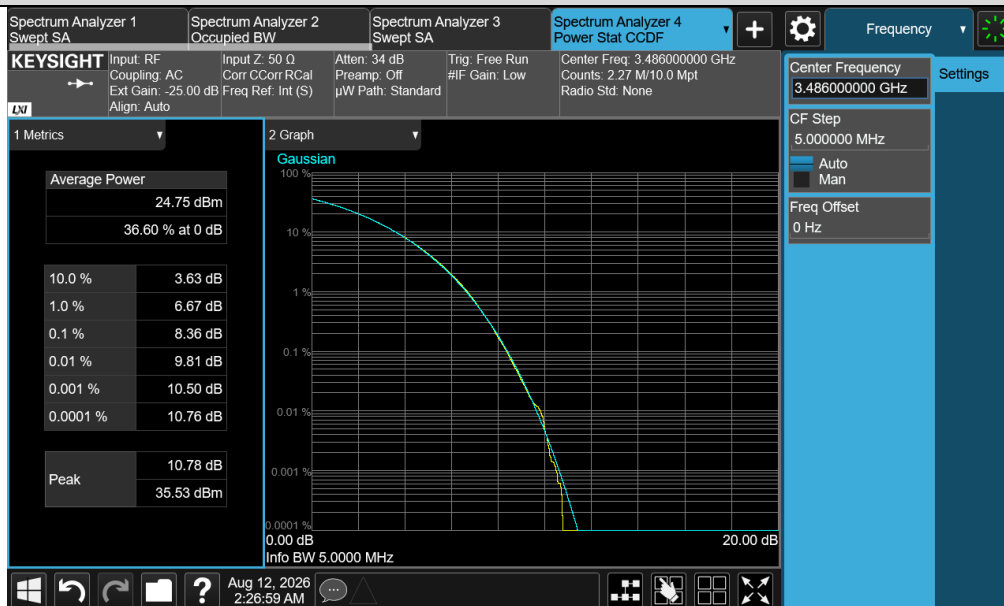
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Peak-to-average ratio (PAR)

UL_4.1MHz AWGN_Pre-AGC



UL_4.1MHz AWGN_3dB above AGC

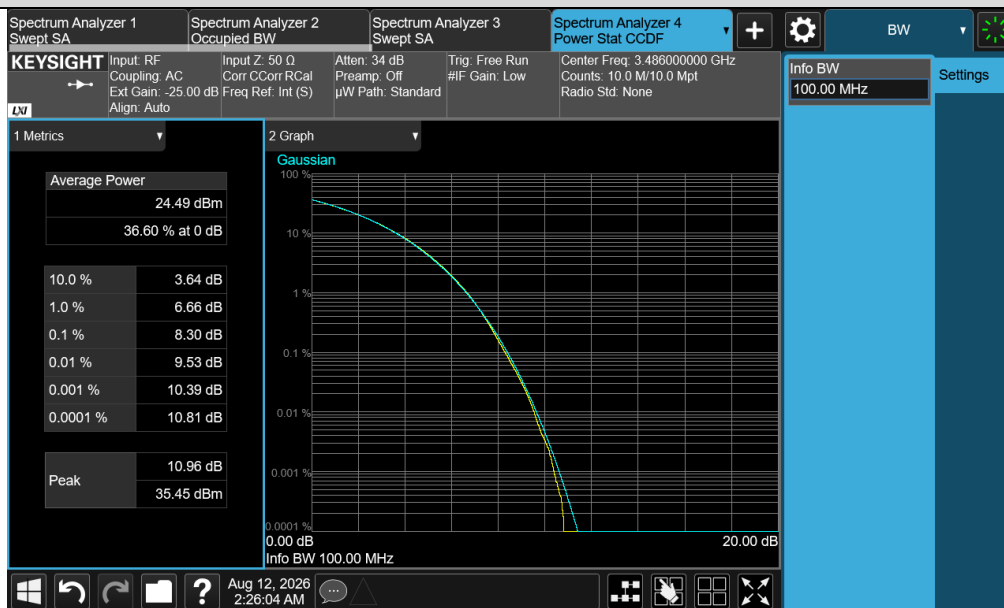


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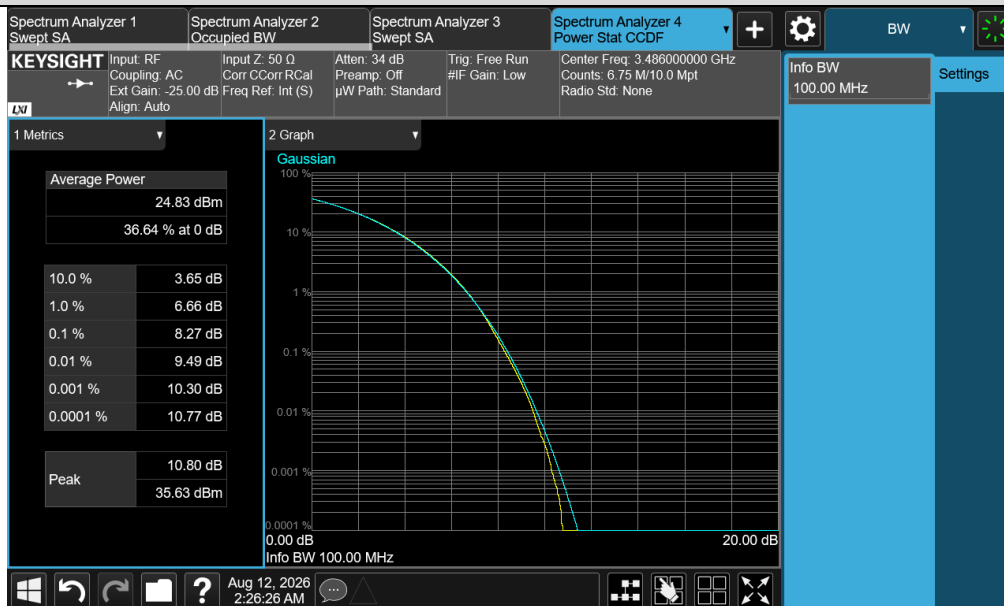
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Peak-to-average ratio (PAR)

UL_100MHz AWGN_Pre-AGC



UL_100MHz AWGN_3dB above AGC



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4 Out-of-band/out-of-block(including intermodulation) emissions

Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
DL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-16.17	≤-13	PASS
				3dB above AGC	-15.08		PASS
			Two signals input	Pre-AGC	-17.22		PASS
				3dB above AGC	-16.53		PASS
	HCH		One signal input	Pre-AGC	-15.63		PASS
				3dB above AGC	-14.97		PASS
			Two signals input	Pre-AGC	-16.58		PASS
				3dB above AGC	-16.55		PASS
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-17.26	≤-13	PASS
	3dB above AGC			-17.25	PASS		
	HCH		One signal input	Pre-AGC	-16.64		PASS
				3dB above AGC	-15.87		PASS
DL	LCH	GSM*	One signal input	Pre-AGC	-34.33	≤-13	PASS
				3dB above AGC	-33.65		PASS
			Two signals input	Pre-AGC	-31.92		PASS
				3dB above AGC	-31.62		PASS
	HCH		One signal input	Pre-AGC	-33.93		PASS
				3dB above AGC	-32.33		PASS
			Two signals input	Pre-AGC	-31.28		PASS
				3dB above AGC	-30.57		PASS

Remark:

*: To ensure measurement accuracy, alternative RBW=100kHz was utilized for out-of-band emission testing outside the 1 MHz band edge, instead of the RBW=1 MHz specified by the standard. Final results shall be calculated based on the readings shown in the test plot, with the calculation formula:

Final Level= Read Level+ 10*log(1MHz/100kHz)= Read Level+ 10dB



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038502

Page: 47 of 99

Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
UL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-23.14	≤-13	PASS
				3dB above AGC	-22.62		PASS
			Two signals input	Pre-AGC	-25.24		PASS
				3dB above AGC	-23.05		PASS
	HCH		One signal input	Pre-AGC	-24.44		PASS
				3dB above AGC	-22.29		PASS
			Two signals input	Pre-AGC	-25.88		PASS
				3dB above AGC	-24.27		PASS
UL	LCH	100MHz AWGN	One signal input	Pre-AGC	-17.50	≤-13	PASS
	3dB above AGC			-16.85	PASS		
	HCH		One signal input	Pre-AGC	-20.47		PASS
				3dB above AGC	-17.70		PASS
UL	LCH	GSM*	One signal input	Pre-AGC	-45.69	≤-13	PASS
				3dB above AGC	-45.42		PASS
			Two signals input	Pre-AGC	-44.48		PASS
				3dB above AGC	-43.43		PASS
	HCH		One signal input	Pre-AGC	-43.04		PASS
				3dB above AGC	-42.51		PASS
			Two signals input	Pre-AGC	-44.75		PASS
				3dB above AGC	-44.75		PASS
Remark: *: To ensure measurement accuracy, alternative RBW=100kHz was utilized for out-of-band emission testing outside the 1 MHz band edge, instead of the RBW=1 MHz specified by the standard. Final results shall be calculated based on the readings shown in the test plot, with the calculation formula: Final Level= Read Level+ 10*log(1MHz/100kHz)= Read Level+ 10dB							



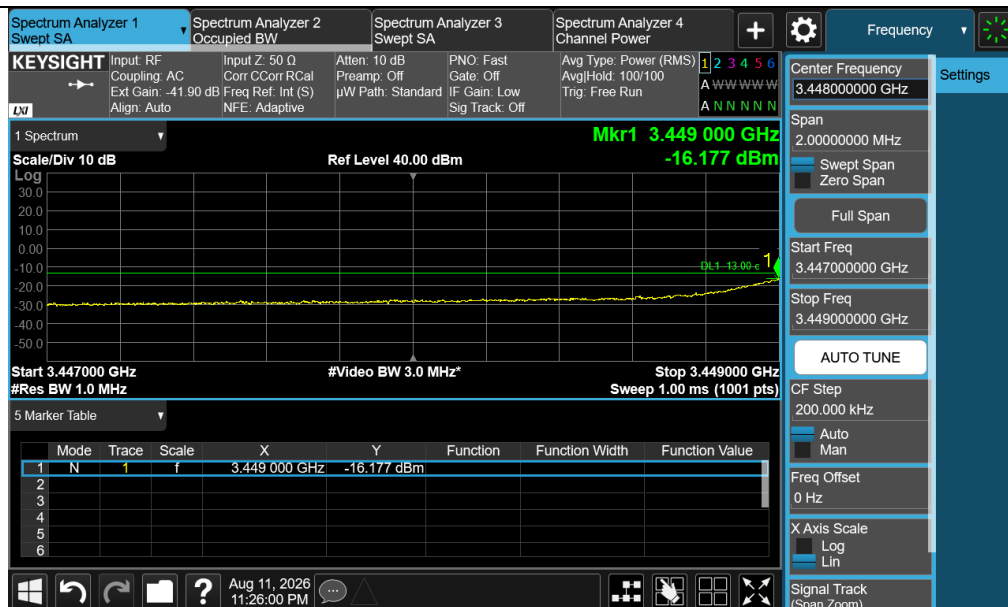
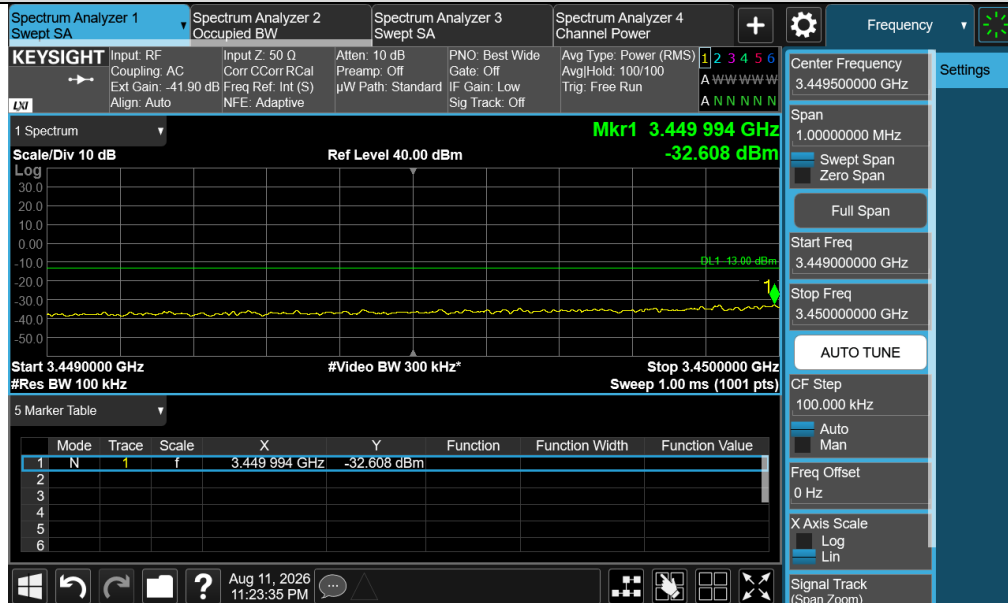
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC

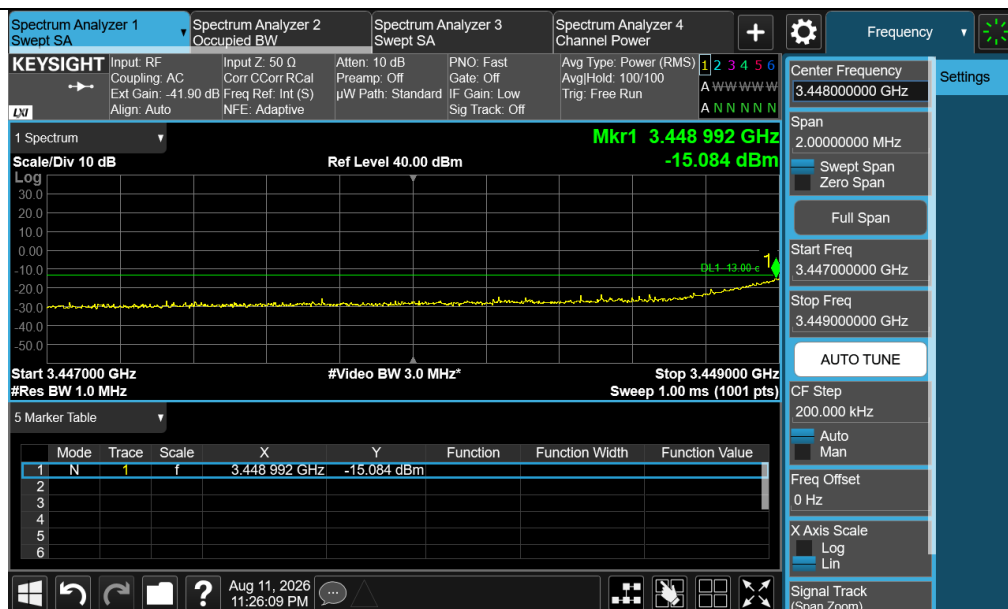


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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC



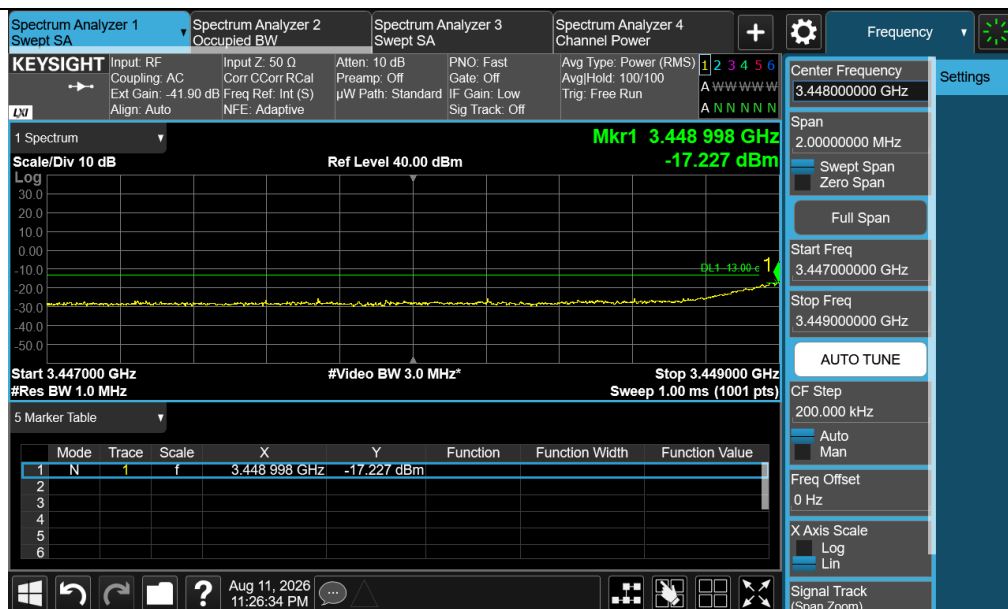
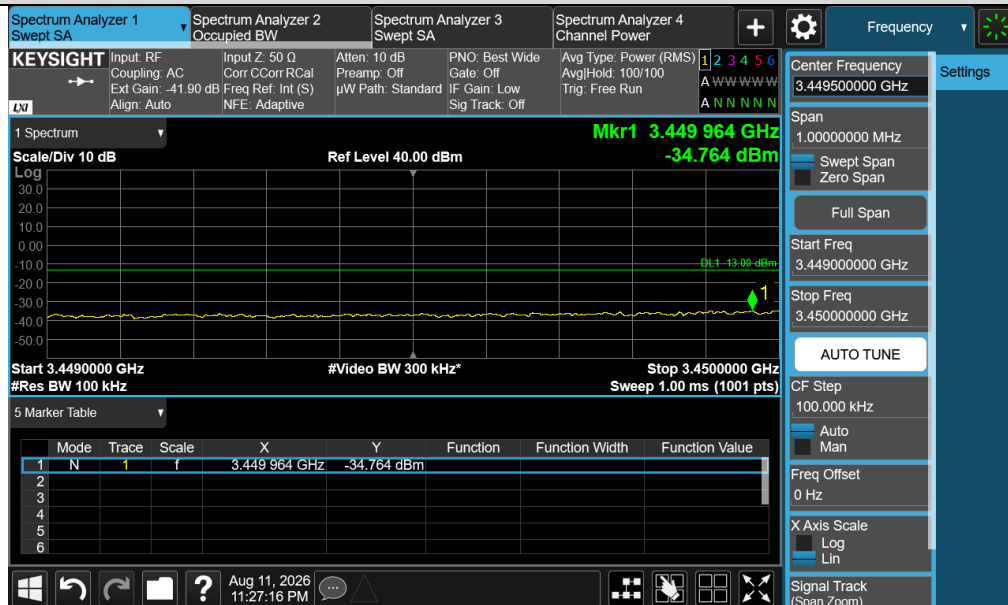
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



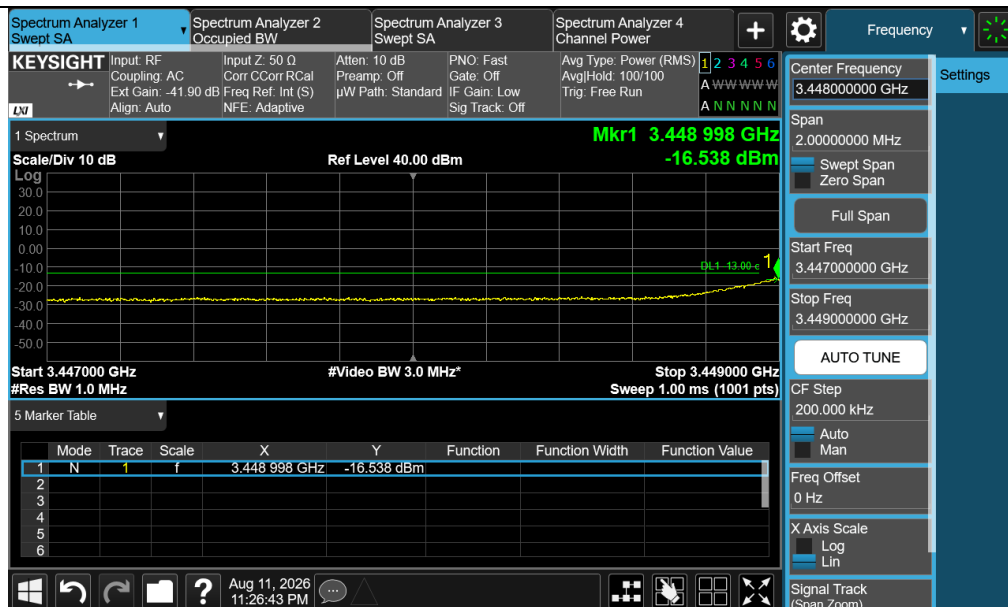
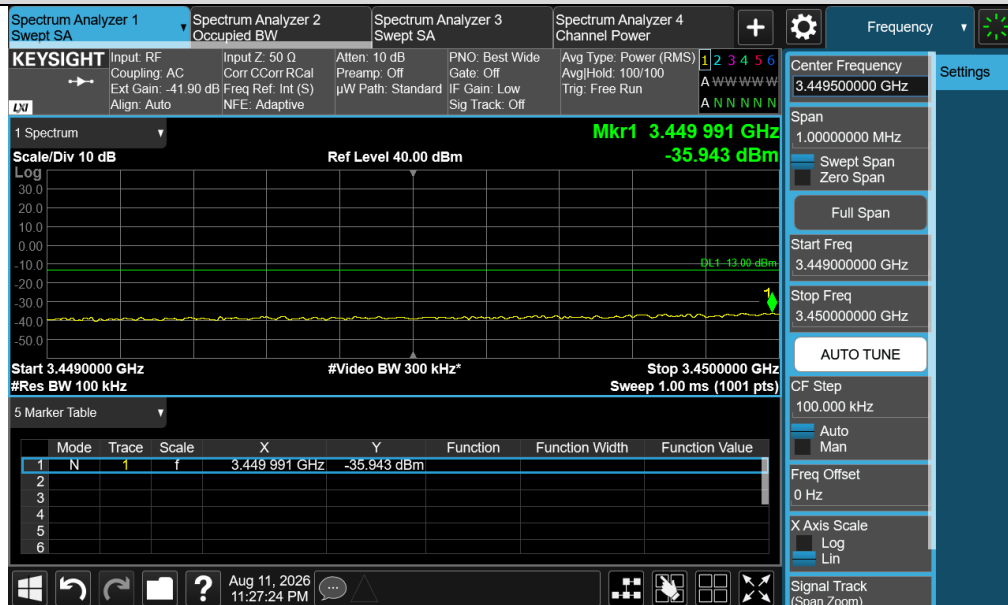
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_two adjacent test signals_3dB above AGC



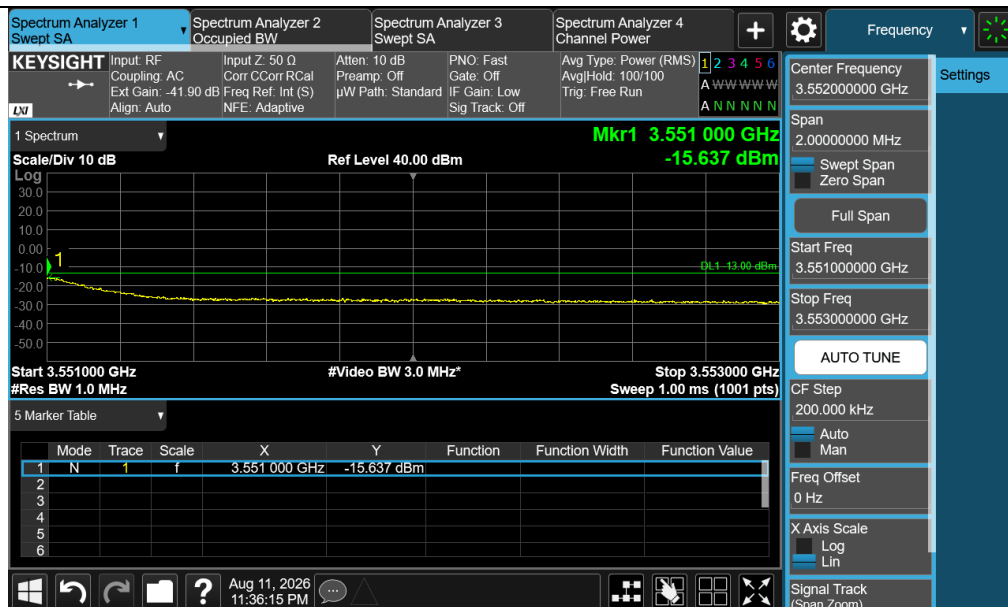
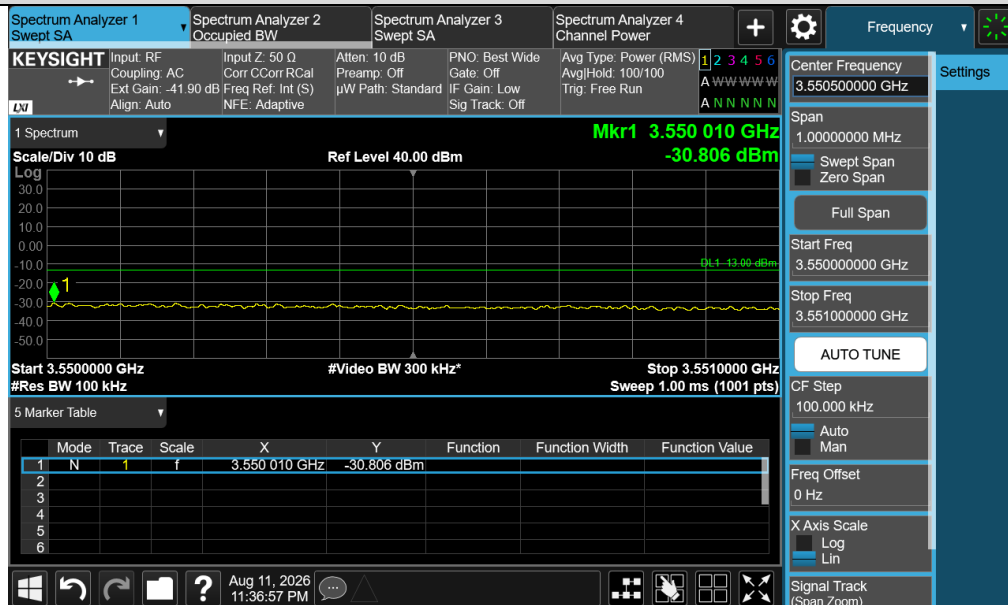
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



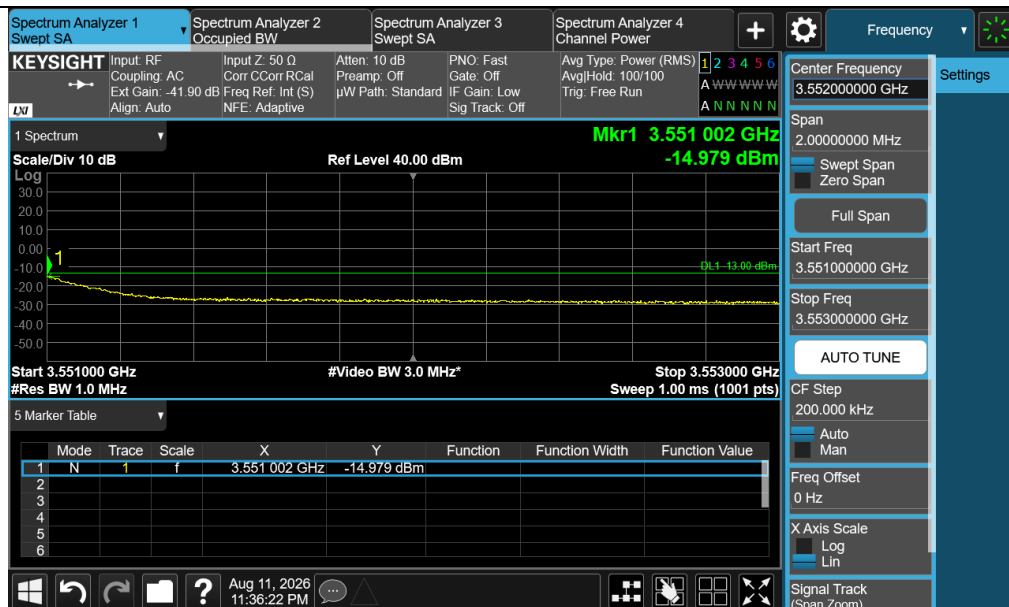
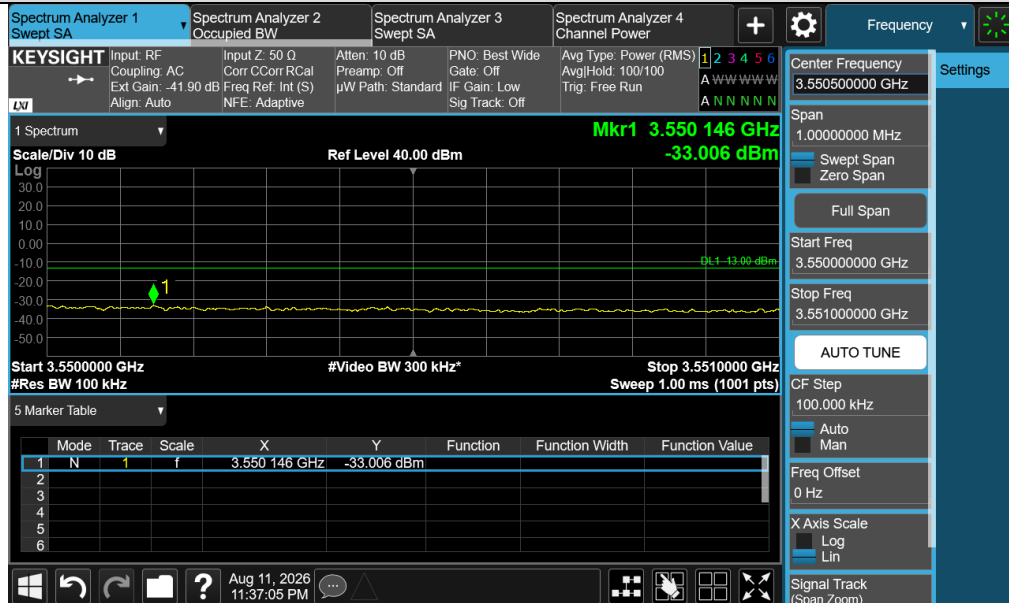
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC



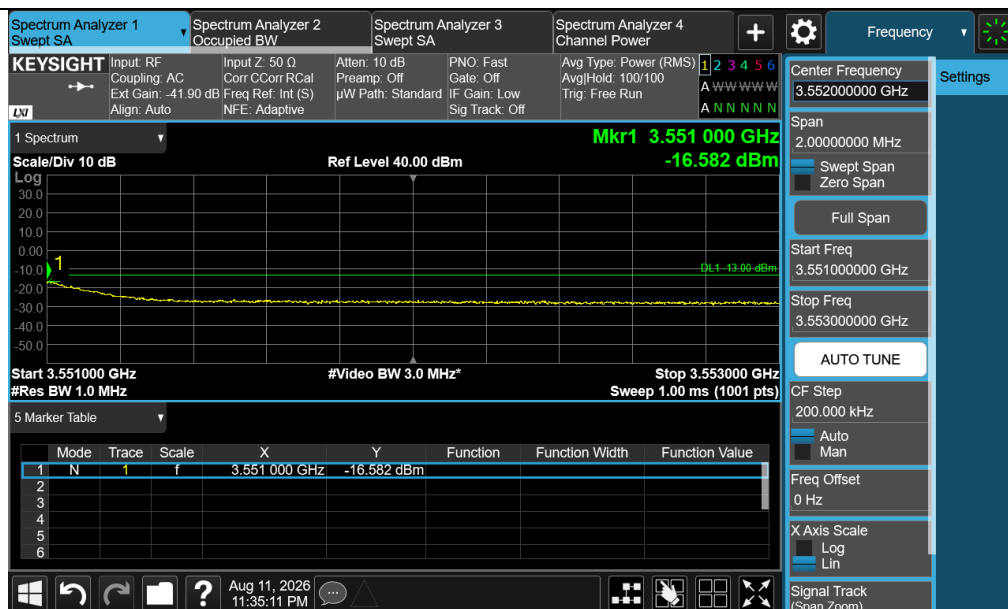
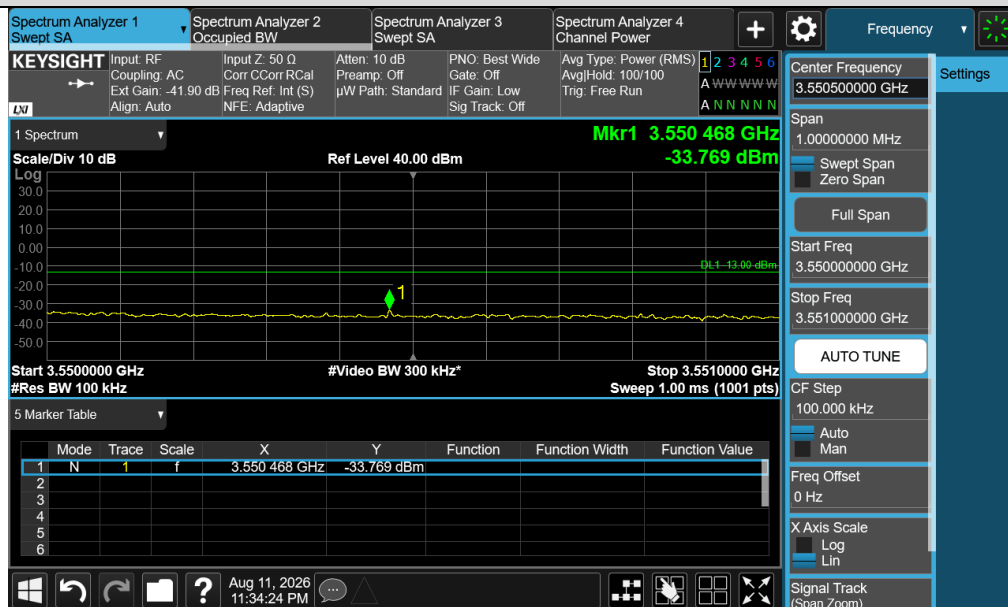
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_two adjacent test signals_Pre-AGC



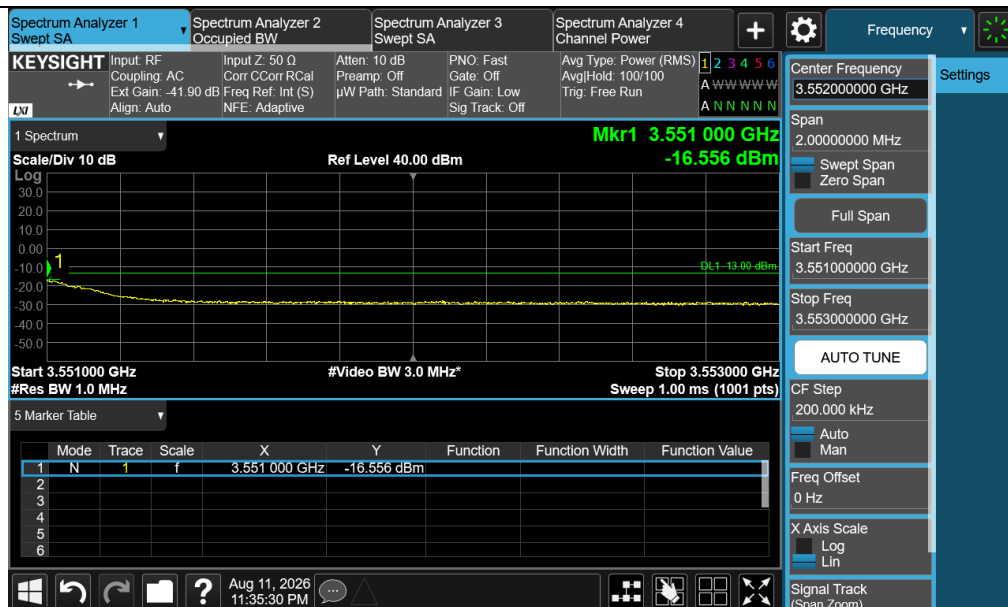
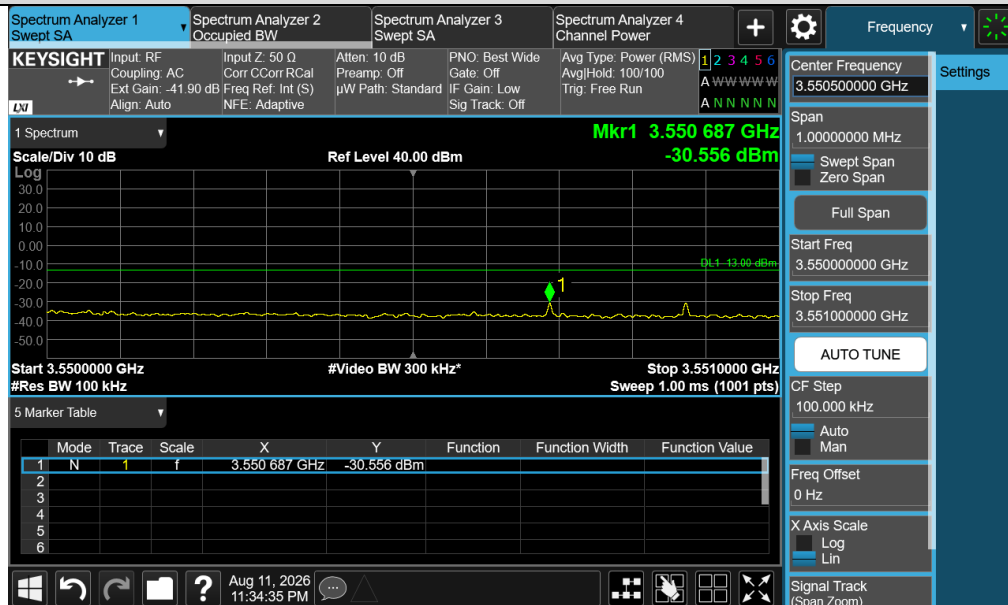
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC



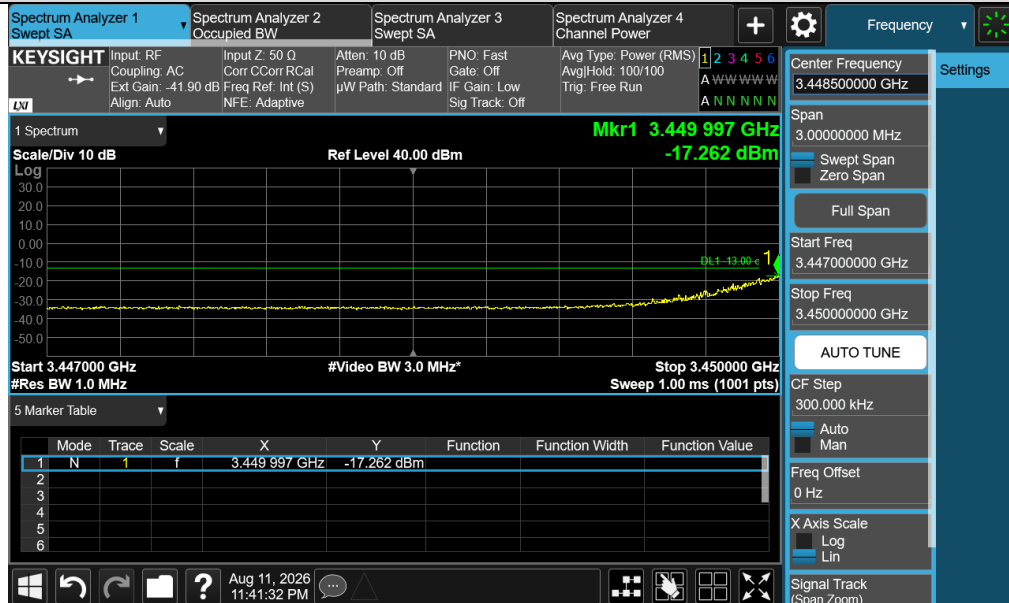
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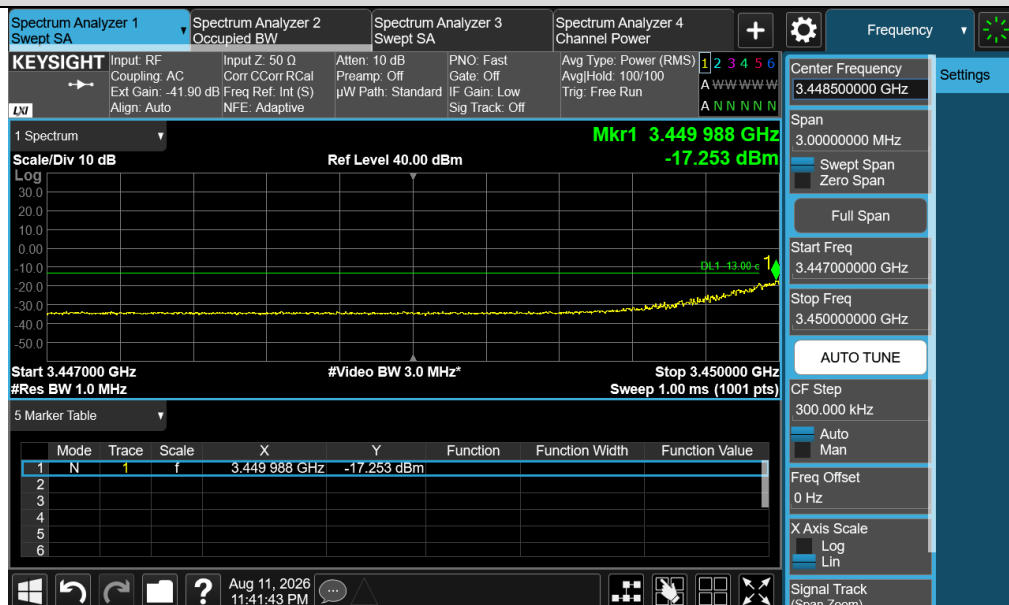
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_a single test signal_Pre-AGC



DL_100MHz AWGN_LCH_a single test signal_3dB above AGC



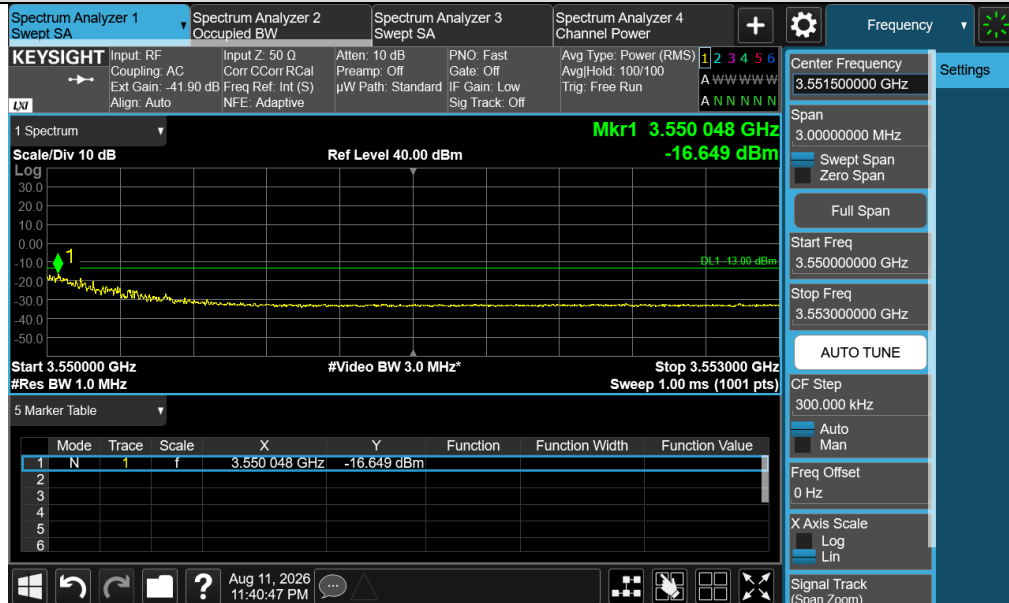
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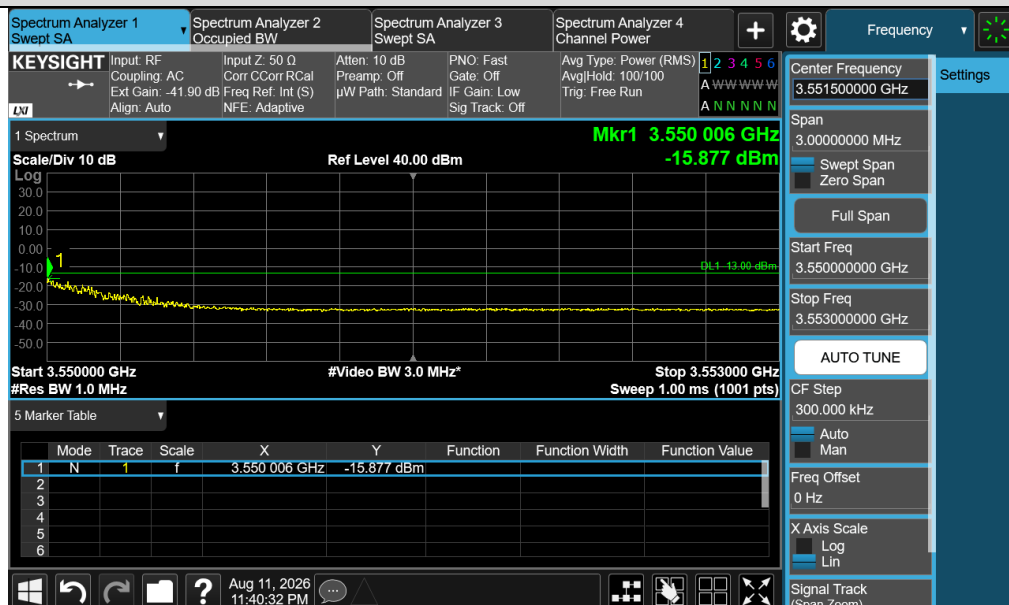
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_a single test signal_Pre-AGC



DL_100MHz AWGN_HCH_a single test signal_3dB above AGC



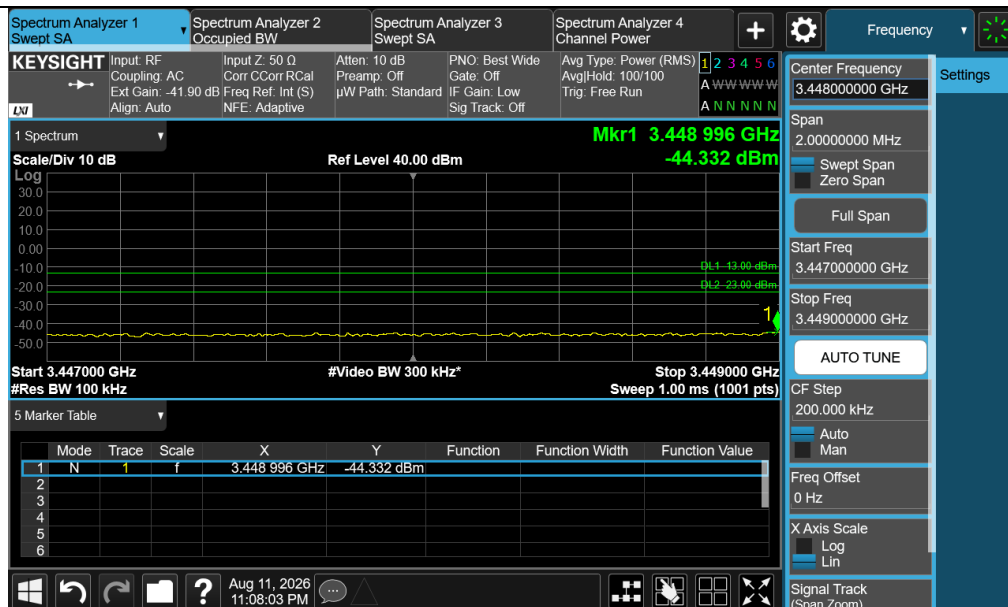
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Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_Pre-AGC



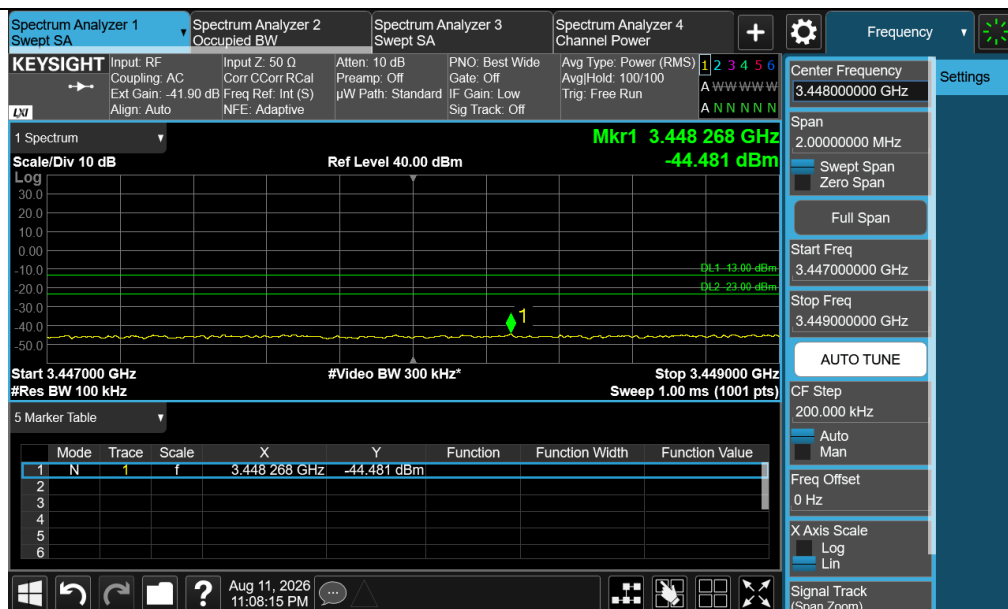
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Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_3dB above AGC



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