CFR 47 FCC PART 22 H
CFR 47 FCC PART 24 E
CFR 47 FCC PART 27

TEST REPORT

For

LTE Smart Phone

FCC ID: 2ADINS6006L
Model Name: S6006L, NUU X7, X7

Report Number: 4791221995-1-RF-6
Issue Date: July 23, 2024

Prepared for

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Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	July 23, 2024	Initial Issue	\

Note:
1.This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 22 H >< CFR 47 FCC PART 24 E>< CFR 47 FCC PART 27> when < Simple Acceptance > decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
EUT Information	
EUT Name:	LTE Smart Phone
Model:	S6006L
Series Model:	NUU X7, X7
Brand:	NUU
Sample Received Date:	March 28, 2024
Sample Status:	Normal
Sample ID:	7066315
Date of Tested:	March 31, 2024 ~ July 23, 2024

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 FCC PART 22 H	PASS
CFR 47 FCC PART 24 E	PASS
CFR 47 FCC PART 27	PASS

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Checked By:

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26-2015, 971168 D01 Power Meas License Digital Systems v03r01, 971168 D02 Misc Rev Approv License Devices v02r01, 412172 D01 v01r01 Determining ERP and EIRP, CFR 47 FCC Part 2, Part 22 H, Part 24 E, Part 27.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202. Shielding Room B, the VCCI registration No. is C-20153 and T-20155.

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.78 dB (1 GHz-18 GHz)
	5.23dB (18 GHz-26 GHz)
	5.64 dB (26 GHz-40 GHz)
Bandwidth	1.1 %
Frequency Error	±1.4Hz
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.	

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name:	LTE smart phone
Model:	S6006L
Series Model:	NUU X7, X7
Model Difference:	NUU X7, X7 have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with S6006L. The difference lies only the model number. all these changes do not degrade the unwanted emissions of the certified product.

EUT configurations:

Material type	First resources material information		Second resources material information	
	Part number	Supplier	Part number	Supplier
MODU(Baseband chips)	MT6761V/WBA	MTK	MT8766V/WBA	MTK

5.2. TEST CHANNEL CONFIGURATION

Band	Mode	Low	Middle	High
WCDMA Band 2	HSDPA/HSUPA	9262	9400	9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz
WCDMA Band 4	HSDPA/HSUPA	1312	1413	1513
		1712.4 MHz	1732.6 MHz	1752.6 MHz
WCDMA Band 5	HSDPA/HSUPA	4132	4182	4233
		826.4 MHz	836.4 MHz	846.6 MHz

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5.3. MAXIMUM ERP/EIRP POWER AND EMISSION DESIGNATOR

WCDMA Band2

Part 24	
EIRP Limit(W)	2.0
Antenna Gain (dBi)	1.62

Mode	Frequency Range (MHz)	Conducted Average power (dBm)	EIRP (W)	99% OBW (MHz)	Emission Designator
REL99	1852.4 ~ 1907.6	23.97	0.36	4.165	4M17F9W
HSDPA		23.02	0.29	4.168	4M17F9W
HSUPA		21.94	0.23	4.196	4M20F9W

WCDMA Band4

Part 27	
EIRP Limit(W)	1.0
Antenna Gain (dBi)	0.23

Mode	Frequency Range (MHz)	Conducted Average power (dBm)	EIRP (W)	99% OBW (MHz)	Emission Designator
REL99	1712.4 ~ 1752.6	23.44	0.23	4.173	4M17F9W
HSDPA		22.54	0.19	4.172	4M17F9W
HSUPA		21.55	0.15	4.214	4M21F9W

WCDMA Band5

Part 22	
ERP Limit(W)	7.0
Antenna Gain (dBi)	-0.96

Mode	Frequency Range (MHz)	Conducted Average power (dBm)	ERP (W)	99% OBW (MHz)	Emission Designator
REL99	826.4 ~ 846.6	24.02	0.12	4.160	4M16F9W
HSDPA		23.09	0.10	4.174	4M17F9W
HSUPA		22.08	0.08	4.223	4M22F9W

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5.4. WORST-CASE CONFIGURATION AND MODE

The radiated spurious emissions measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that X orientation was the worst-case orientation.

Radiated spurious emissions were investigated below 30 MHz, 30 MHz - 1 GHz and above 1 GHz. There were no emissions found on below 1GHz and above 18 GHz, the emissions between 1 GHz – 18 GHz were tested at the low, mid, high channel and the worst configuration. Only the worst result is reported.

Note:

1. Based on preliminary testing, there were no significant differences between the two models and therefore model [MT6761 version] was fully tested.

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5.5. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Band	Antenna Type	MAX Antenna Gain (dBi)
Ant1	WCDMA Band 2	FPC	1.62
Ant1	WCDMA Band 4	FPC	0.23
Ant2	WCDMA Band 5	FPC	-0.96

Band	Transmit and Receive Mode	Description
WCDMA Band 2	☒1TX, 2RX	Ant0 antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
WCDMA Band 4	☒1TX, 2RX	Ant0 antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
WCDMA Band 5	☒1TX, 2RX	Ant0 antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna

Note: The value of the antenna gain was declared by customer.

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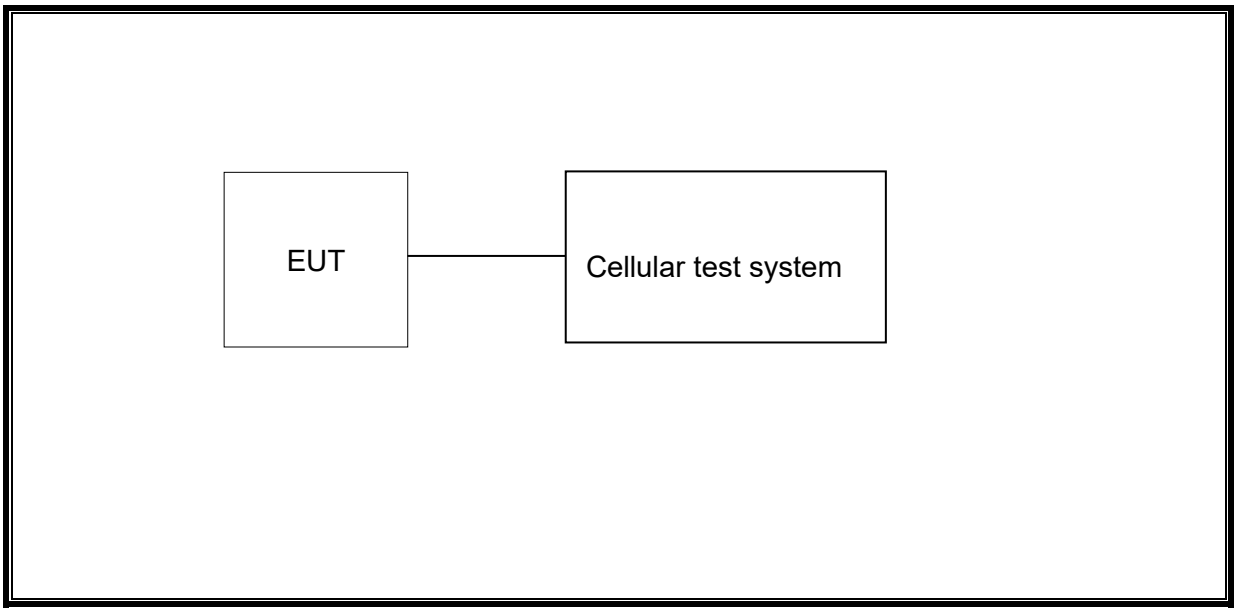
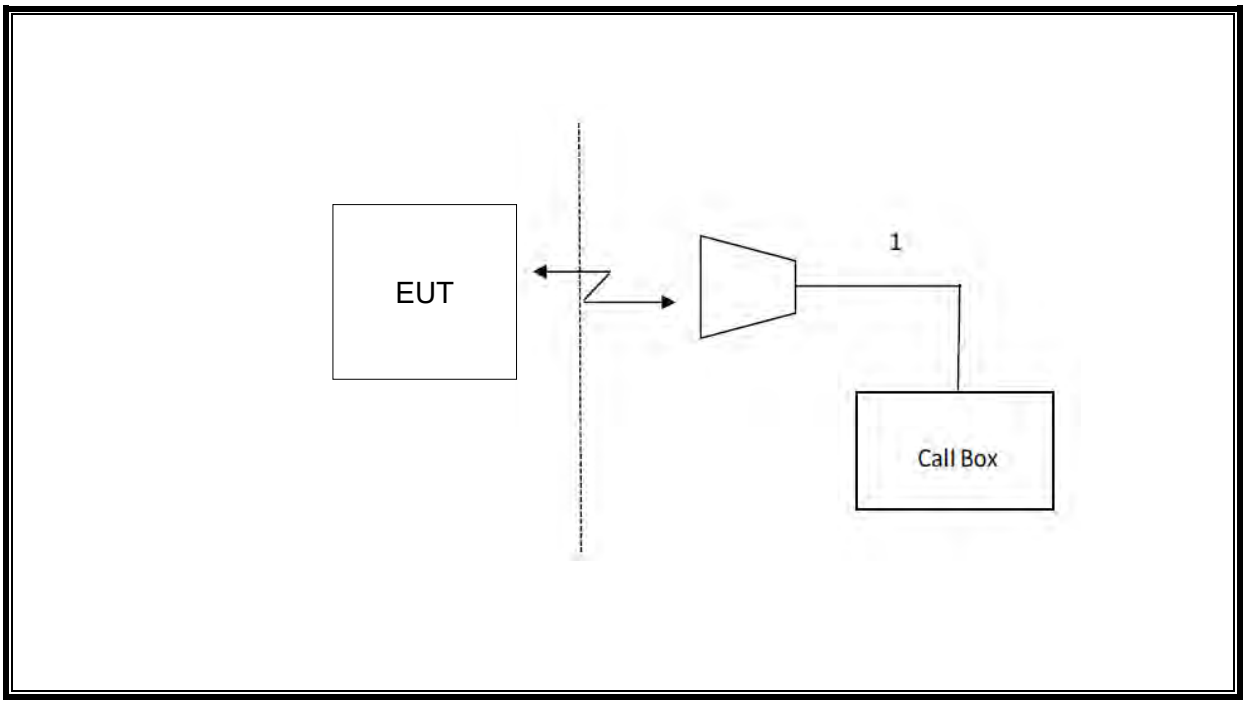
5.6. DESCRIPTION OF TEST SETUP

Conducted



Radiated



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6. MEASURING INSTRUMENT AND SOFTWARE USED

Antenna Terminal Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☑	Spectrum Analyzer	R&S	FSV40	S422060001	Oct.12, 2023	Oct.11, 2024
☑	Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.12, 2023	Oct.11, 2024

Software				
Used	Description	Manufacturer	Name	Version
☑	Tonsend Cellular Test System	Tonsend	JS1120 RF Auto Test System	3.1.46

Radiated Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☑	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024
☑	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
☑	Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024
☑	EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024
☑	Horn Antenna	TDK	HRN-0118	130939	Apr. 29, 2022	Apr. 28, 2025
☑	Horn Antenna	Schwarzbeck	BBHA9170	697	June 30, 2024	June 29, 2027
☑	Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.12, 2023	Oct.11, 2024
☑	Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.12, 2023	Oct.11, 2024
☑	Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
☑	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.12, 2023	Oct.11, 2024

Software				
Used	Description	Manufacturer	Name	Version
☑	Test Software for Radiated disturbance	Farad	EZ-EMC	Ver. UL-3A1

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7. ANTENNA TERMINAL TEST RESULTS

7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

RULE PART(S)

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

LIMITS

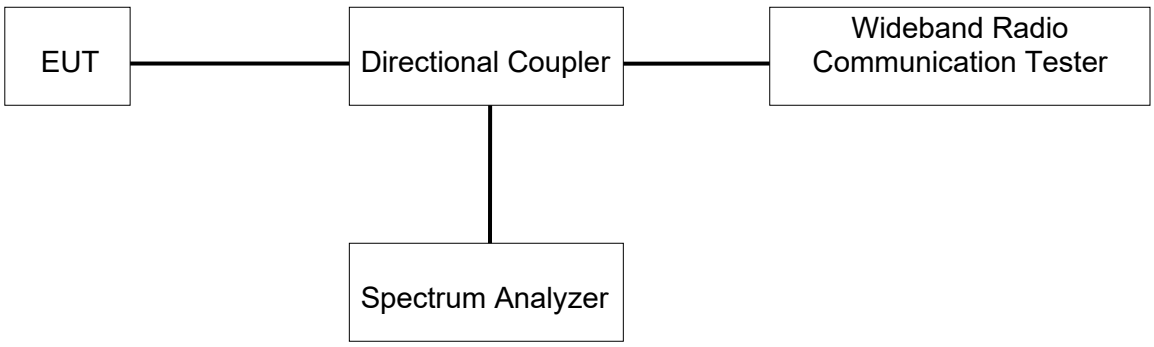
22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
24.232(c) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.
27.50(c) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.
27.50(d) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watts EIRP.
27.50(h) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to ANSI C63.26:2015 and KDB 971168 D01 Section 5.6
ERP/ EIRP = PMeas + GT − LC
where:
ERP or EIRP = effective or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);
PMeas = measured transmitter output power or PSD, in dBm or dBW;
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB

The transmitter has a maximum radiated ERP / EIRP output powers as follows:

TEST SETUP



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TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	58.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 V

RESULTS

Please refer to Appendix A.

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7.2. PEAK TO AVERAGE RADIO

LIMITS

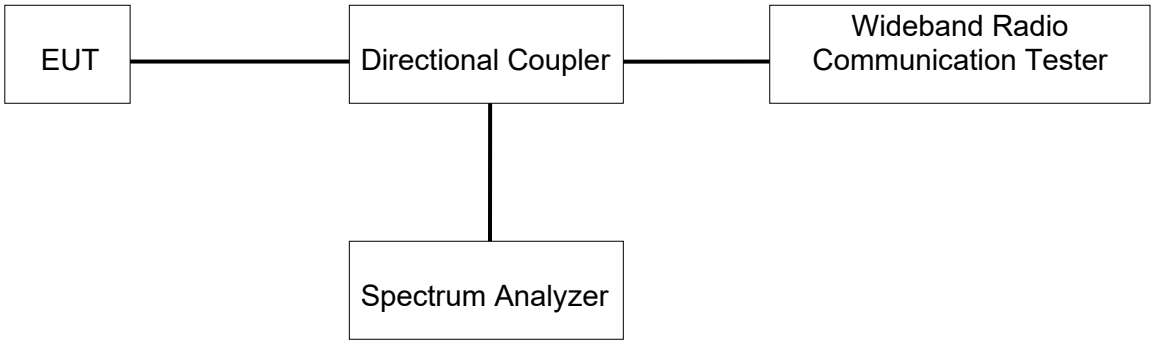
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The PAR was measured on the Spectrum Analyzer.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	58.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 V

RESULTS

The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

Please refer to Appendix B.

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7.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

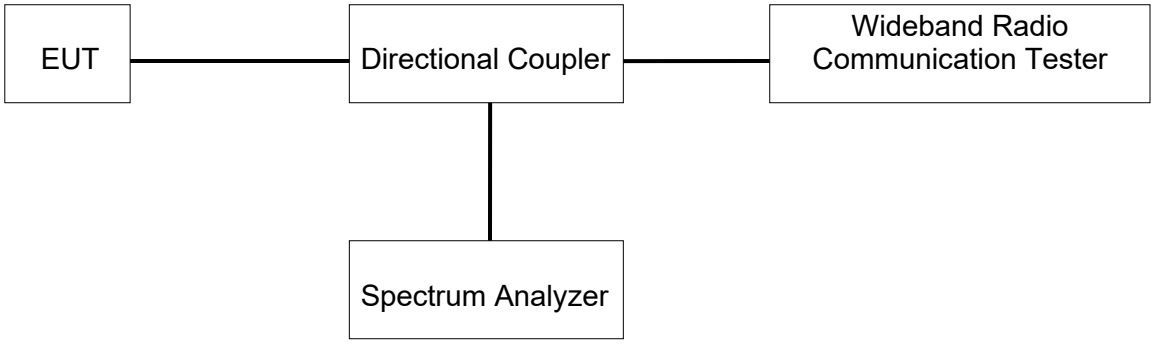
For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01)

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	58.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 V

RESULTS

Please refer to Appendix C.

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7.4. BAND EDGE EMISSIONS

RULE PART(S)

FCC §2.1051, §22.917, §24.238, §27.53

LIMITS

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 + 10 log (P) dB.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01
The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

a) Set the RBW = 1 ~ 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW)
b) Set VBW ≥ 3 × RBW;
c) Set span ≥ 1.5 times the OBW;
d) Sweep time = Auto;
e) Detector = RMS;
f) Ensure that the number of measurement points ≥ 2*Span/RBW;
g) Trace mode = Average (100);

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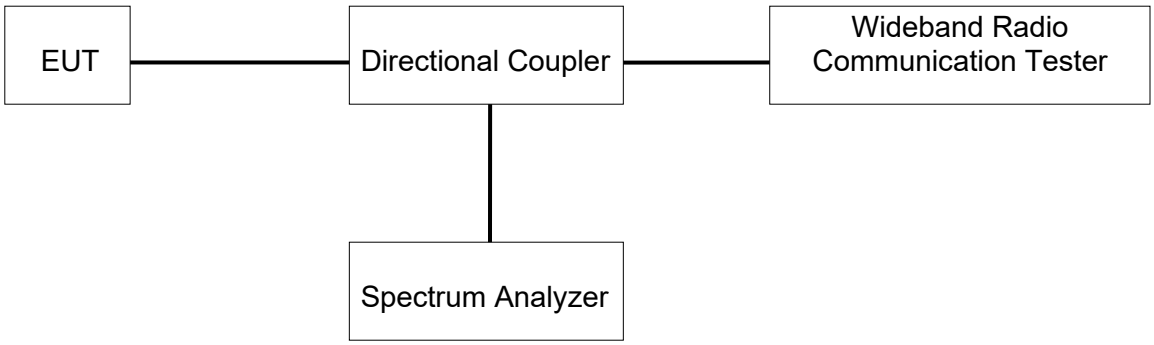
TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	58.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 V

RESULTS

Please refer to Appendix D.

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7.5. SPURIOUS EMISSION AT ANTENNA TERMINAL

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53

LIMITS

FCC: §22.901, §22.917, §24.238
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 + 10 log (P) dB.

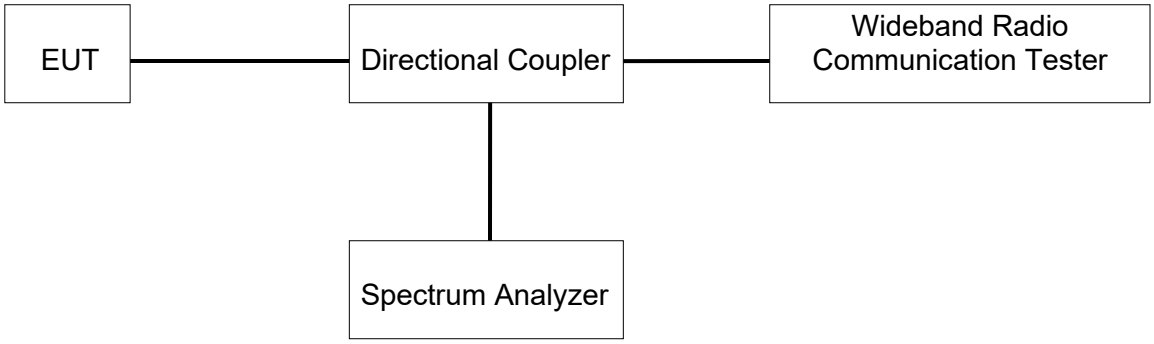
TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

a) Set the RBW = 100 kHz for emission below 1GHz and 1MHz for emissions above 1GHz (Tests were performed 1 MHz [Worst case], to sweep 1 time for all frequency range)
b) Set VBW ≥ 3 × RBW;
c) Set span ≥ 1.5 times the OBW;
d) Sweep time = auto couple;
e) Detector = rms;
f) Ensure that the number of measurement points = Max (40001);
g) Trace mode = average (LTE 5), Maxhold (LTE Band7);

Note: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

TEST SETUP



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TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	58.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 V

RESULTS

Please refer to Appendix E.

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7.6. FREQUENCY STABILITY

Rule Part:
FCC: §2.1055, §22.355, §24.235, §27.54

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations.

§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	45 % - 75 %	/
Atmospheric Pressure	100 kPa ~102 kPa	/
Temperature	T_N (Normal Temperature): 24.7 °C	T_L (Low Temperature): -30 °C
		T_H (High Temperature): 50 °C
Supply Voltage	V_N (Normal Voltage): DC 3.8 V	V_L (Low Voltage): DC 3.23V
		V_H (High Voltage): DC 4.37 V

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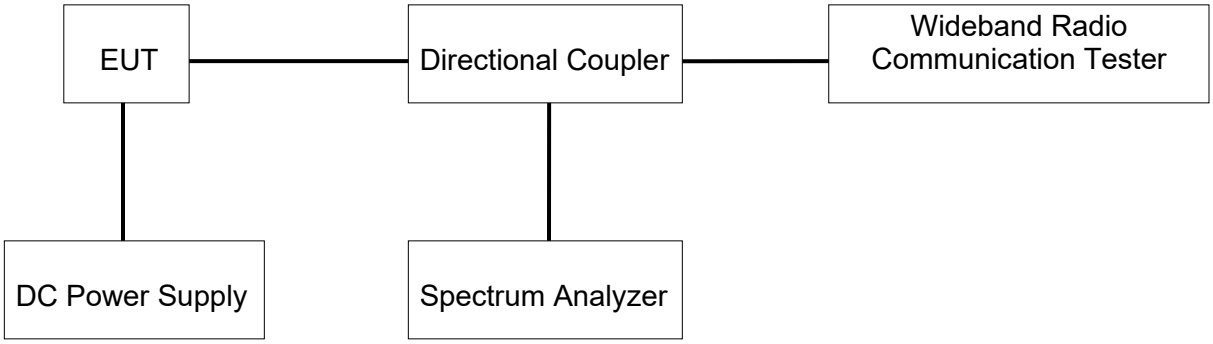
TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	58.6%
Atmosphere Pressure	101kPa	Test Voltage	/

RESULTS

The peak frequency error is recorded (worst-case).

Please refer to Appendix F.

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8. APPENDIX

8.1. AppendixA: Effective (Isotropic) Radiated Power Output Data

8.1.1. Test Result

Band 2		Average Power (dBm)		
		9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	23.97	23.83	23.65
HSDPA	Subtest 1	23.02	22.82	22.68
	Subtest 2	22.95	22.81	22.52
	Subtest 3	22.94	22.71	22.51
	Subtest 4	22.93	22.58	22.52
HSUPA	Subtest 1	20.99	20.89	20.69
	Subtest 2	21.01	20.91	20.65
	Subtest 3	21.00	20.89	20.65
	Subtest 4	20.54	20.40	20.23
	Subtest 5	21.94	21.85	21.64

Band 4		Average Power (dBm)		
		1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	23.44	23.34	23.44
HSDPA	Subtest 1	22.48	22.41	22.54
	Subtest 2	22.50	22.40	22.53
	Subtest 3	22.52	22.40	22.52
	Subtest 4	22.46	22.39	22.53
HSUPA	Subtest 1	20.49	20.51	20.57
	Subtest 2	20.55	20.47	20.58
	Subtest 3	21.59	21.48	21.57
	Subtest 4	20.08	19.99	20.08
	Subtest 5	21.52	21.45	21.55

Band 5		Average Power (dBm)		
		4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	23.86	23.94	24.02
HSDPA	Subtest 1	22.88	22.92	23.07
	Subtest 2	22.86	22.95	23.09
	Subtest 3	22.92	22.90	23.02
	Subtest 4	22.85	22.86	23.03
HSUPA	Subtest 1	20.87	20.95	21.02
	Subtest 2	20.92	20.93	21.03
	Subtest 3	21.92	21.96	22.08
	Subtest 4	20.87	20.54	20.64
	Subtest 5	21.85	21.90	22.09

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8.2. AppendixB:Peak-to-Average Ratio

8.2.1. Test Result

REL99:

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.86	13	PASS
Band2	9400	2.94	13	PASS
Band2	9538	2.74	13	PASS
Band4	1312	3.08	13	PASS
Band4	1413	3.02	13	PASS
Band4	1513	3.02	13	PASS
Band5	4132	3.16	13	PASS
Band5	4182	3.3	13	PASS
Band5	4233	3.26	13	PASS

HSDPA:

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	3.06	13	PASS
Band2	9400	1	3.16	13	PASS
Band2	9538	1	3	13	PASS
Band2	9262	2	3.06	13	PASS
Band2	9400	2	3.16	13	PASS
Band2	9538	2	3	13	PASS
Band2	9262	3	3.04	13	PASS
Band2	9400	3	3.16	13	PASS
Band2	9538	3	3	13	PASS
Band2	9262	4	3.04	13	PASS
Band2	9400	4	3.16	13	PASS
Band2	9538	4	3	13	PASS
Band4	1312	1	3.2	13	PASS
Band4	1413	1	3.18	13	PASS
Band4	1513	1	3.16	13	PASS
Band4	1312	2	3.2	13	PASS
Band4	1413	2	3.18	13	PASS
Band4	1513	2	3.16	13	PASS
Band4	1312	3	3.2	13	PASS
Band4	1413	3	3.18	13	PASS
Band4	1513	3	3.16	13	PASS
Band4	1312	4	3.2	13	PASS
Band4	1413	4	3.16	13	PASS
Band4	1513	4	3.18	13	PASS
Band5	4132	1	3.34	13	PASS
Band5	4182	1	3.44	13	PASS
Band5	4233	1	3.4	13	PASS
Band5	4132	2	3.34	13	PASS
Band5	4182	2	3.44	13	PASS
Band5	4233	2	3.4	13	PASS
Band5	4132	3	3.36	13	PASS
Band5	4182	3	3.44	13	PASS
Band5	4233	3	3.42	13	PASS
Band5	4132	4	3.36	13	PASS
Band5	4182	4	3.44	13	PASS
Band5	4233	4	3.4	13	PASS

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HSUPA:

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	4.5	13	PASS
Band2	9400	1	4.58	13	PASS
Band2	9538	1	4.46	13	PASS
Band2	9262	2	5.6	13	PASS
Band2	9400	2	5.68	13	PASS
Band2	9538	2	5.52	13	PASS
Band2	9262	3	5	13	PASS
Band2	9400	3	5.12	13	PASS
Band2	9538	3	4.88	13	PASS
Band2	9262	4	5.4	13	PASS
Band2	9400	4	5.52	13	PASS
Band2	9538	4	5.36	13	PASS
Band2	9262	5	4.2	13	PASS
Band2	9400	5	4.26	13	PASS
Band2	9538	5	4.1	13	PASS
Band4	1312	1	4.66	13	PASS
Band4	1413	1	4.6	13	PASS
Band4	1513	1	4.68	13	PASS
Band4	1312	2	5.82	13	PASS
Band4	1413	2	5.74	13	PASS
Band4	1513	2	5.78	13	PASS
Band4	1312	3	5.22	13	PASS
Band4	1413	3	5.16	13	PASS
Band4	1513	3	5.18	13	PASS
Band4	1312	4	5.66	13	PASS
Band4	1413	4	5.56	13	PASS
Band4	1513	4	5.6	13	PASS
Band4	1312	5	4.36	13	PASS
Band4	1413	5	4.32	13	PASS
Band4	1513	5	4.3	13	PASS
Band5	4132	1	4.86	13	PASS
Band5	4182	1	4.9	13	PASS
Band5	4233	1	4.84	13	PASS
Band5	4132	2	5.96	13	PASS
Band5	4182	2	6.08	13	PASS
Band5	4233	2	5.96	13	PASS
Band5	4132	3	5.38	13	PASS
Band5	4182	3	5.46	13	PASS
Band5	4233	3	5.38	13	PASS
Band5	4132	4	5.66	13	PASS
Band5	4182	4	5.72	13	PASS
Band5	4233	4	5.68	13	PASS
Band5	4132	5	4.5	13	PASS
Band5	4182	5	4.58	13	PASS
Band5	4233	5	4.56	13	PASS

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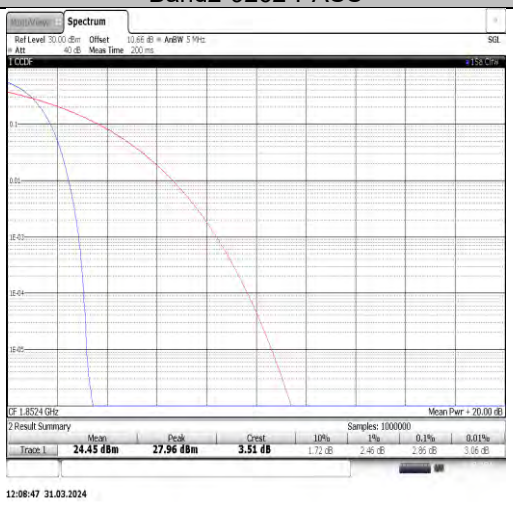
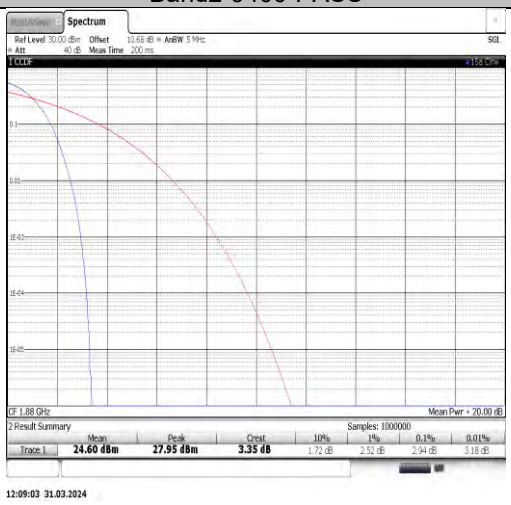
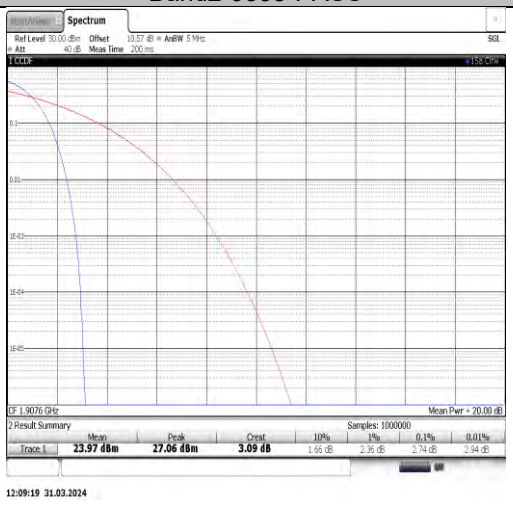
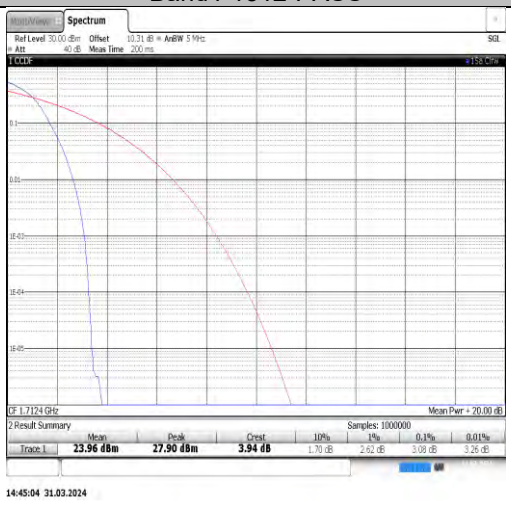
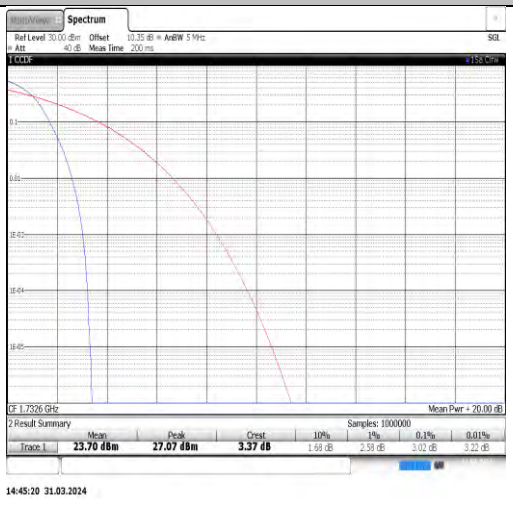
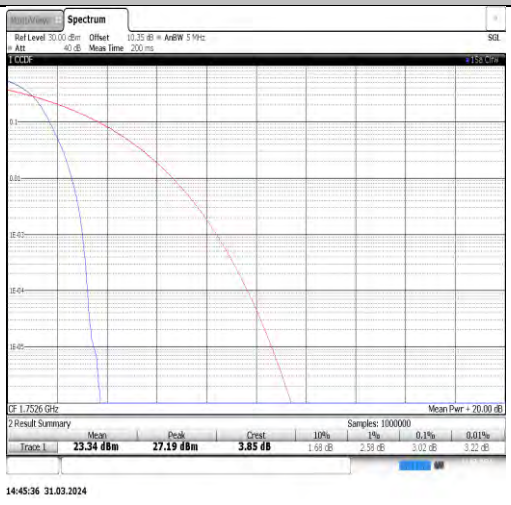
8.2.1. Test Graphs

REL99:

Band2-9262-PASS	Band2-9400-PASS
	
Band2-9538-PASS	Band4-1312-PASS
	
Band4-1413-PASS	Band4-1513-PASS
	
Band5-4132-PASS	Band5-4182-PASS

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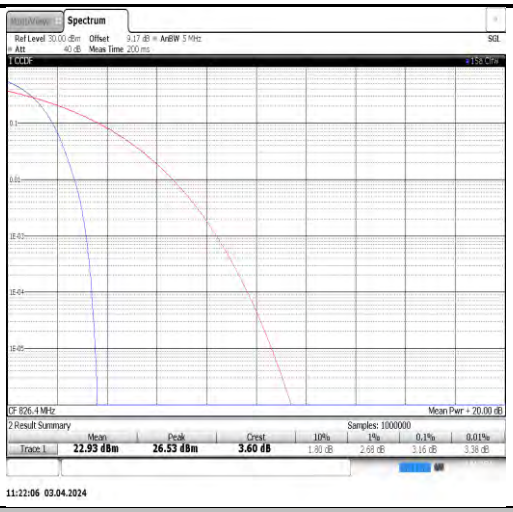
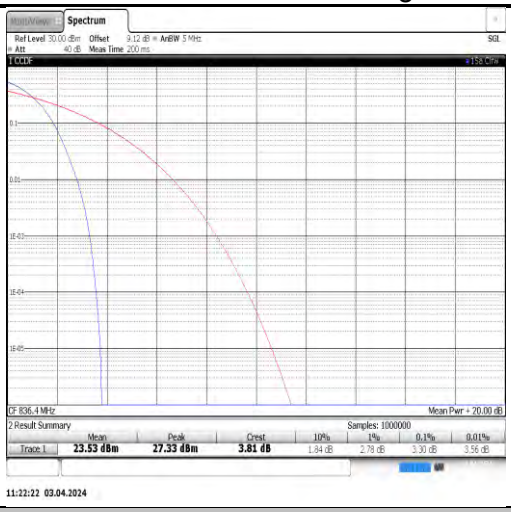
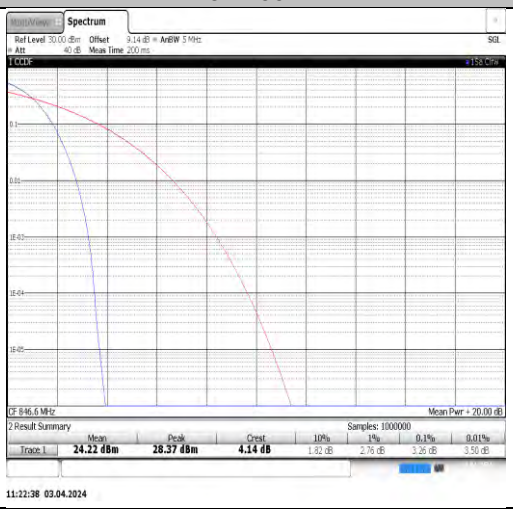


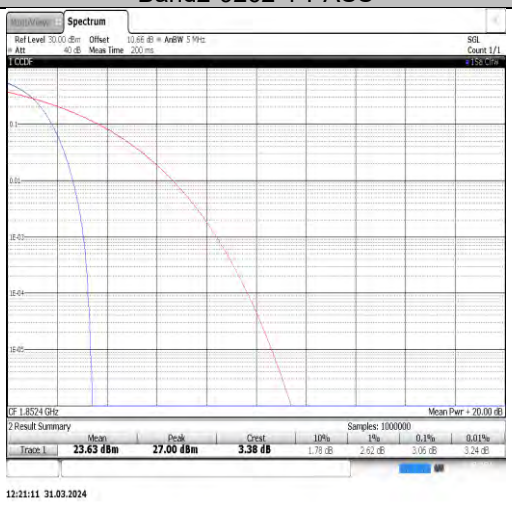


Band5-4233-PASS



HSDPA:

Band2-9262-1-PASS



Band2-9400-1-PASS

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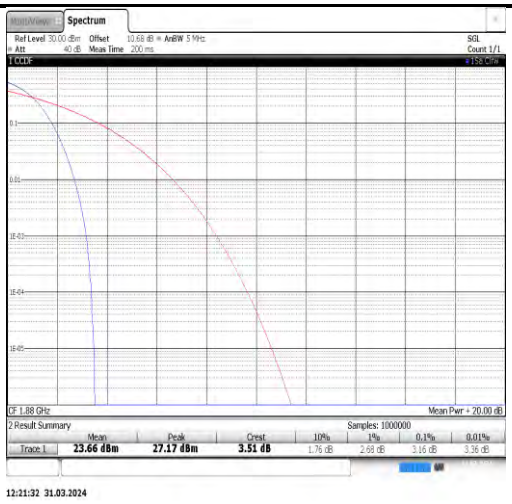
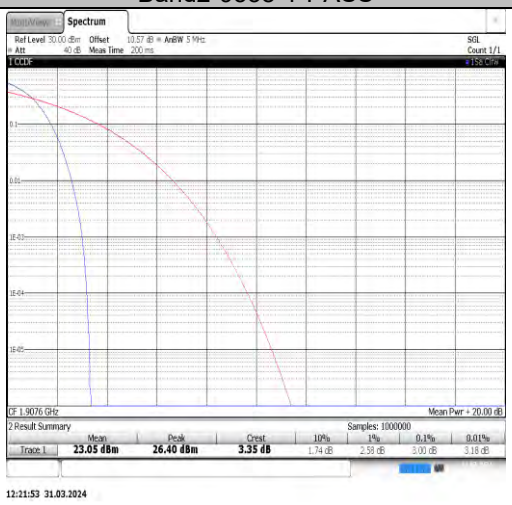
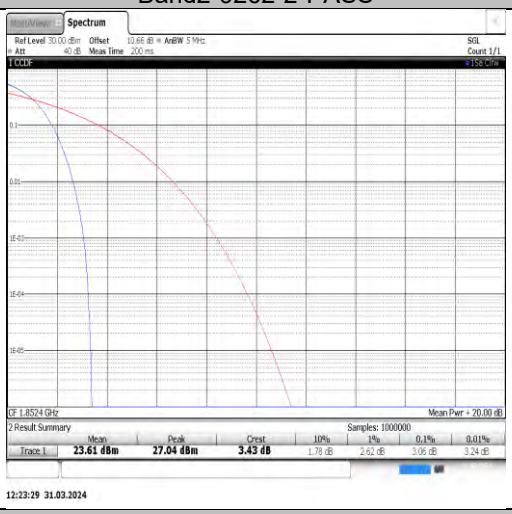


Band2-9538-1-PASS



Band2-9262-2-PASS



Band2-9400-2-PASS

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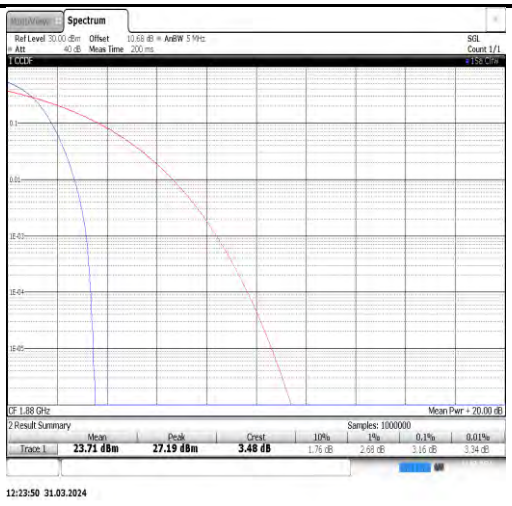
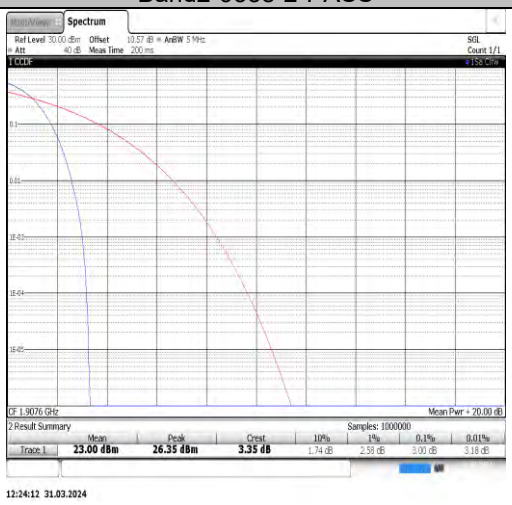
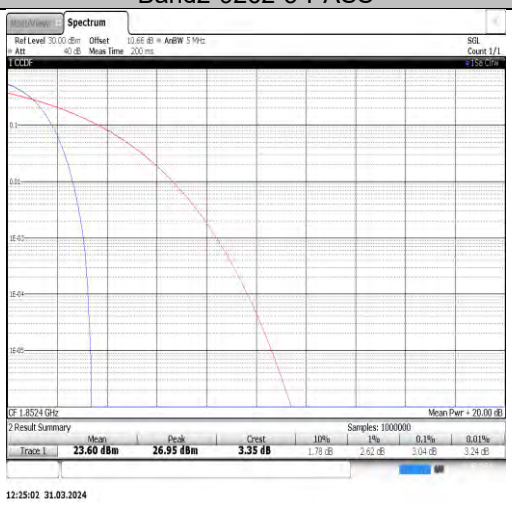


Band2-9538-2-PASS



Band2-9262-3-PASS



Band2-9400-3-PASS

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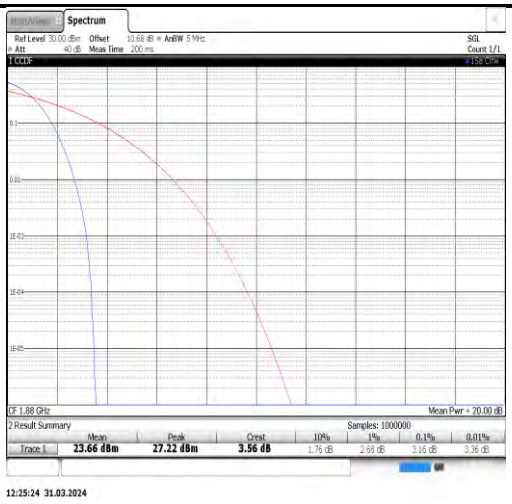
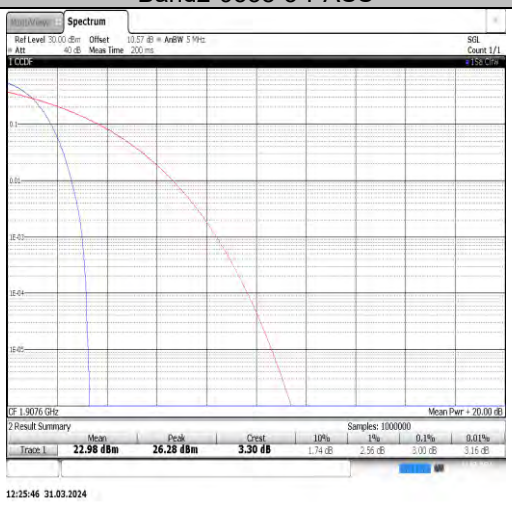
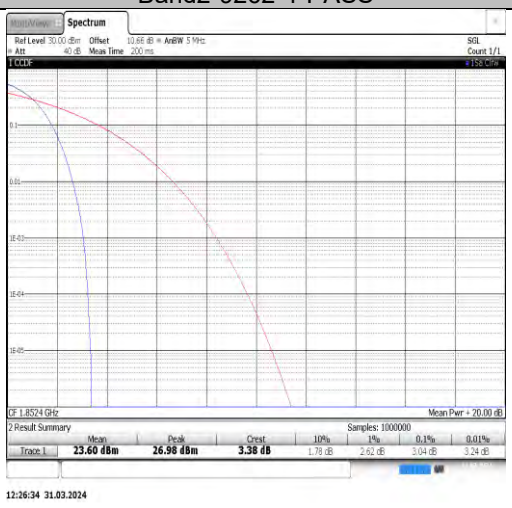


Band2-9538-3-PASS



Band2-9262-4-PASS



Band2-9400-4-PASS

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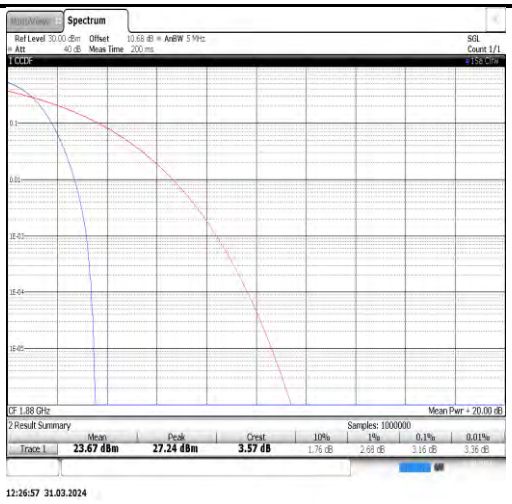
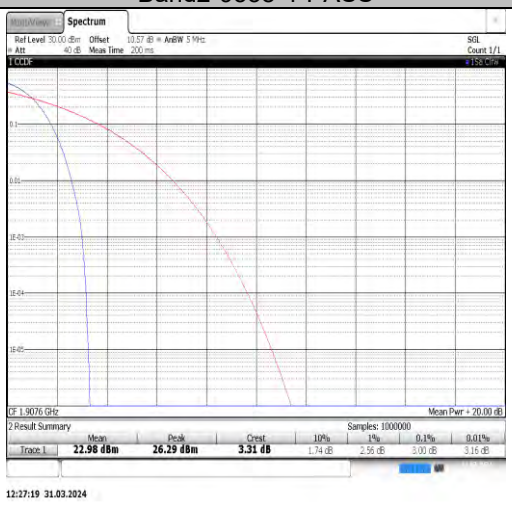
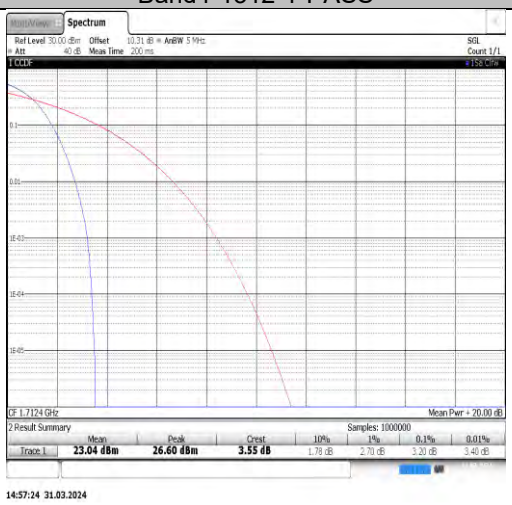


Band2-9538-4-PASS



Band4-1312-1-PASS



Band4-1413-1-PASS

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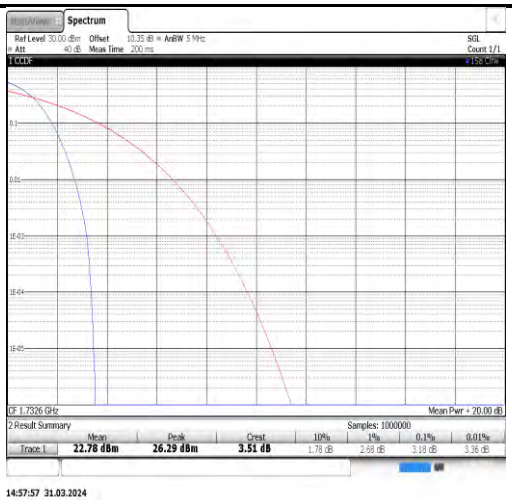
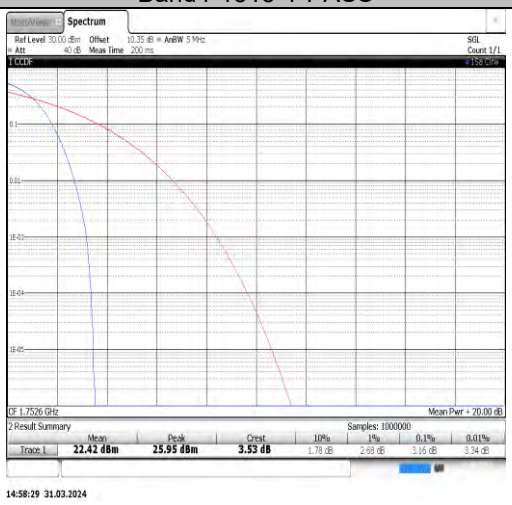
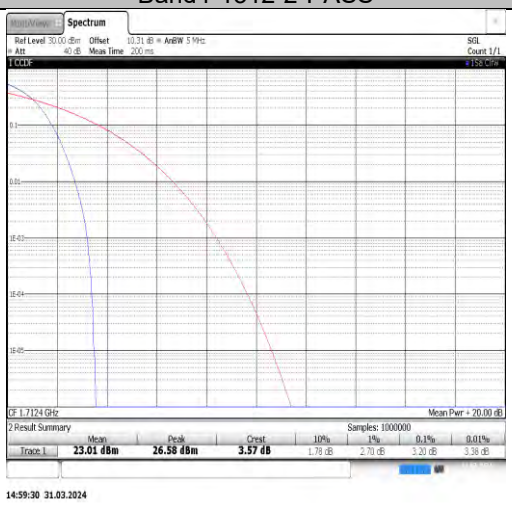


Band4-1513-1-PASS



Band4-1312-2-PASS



Band4-1413-2-PASS

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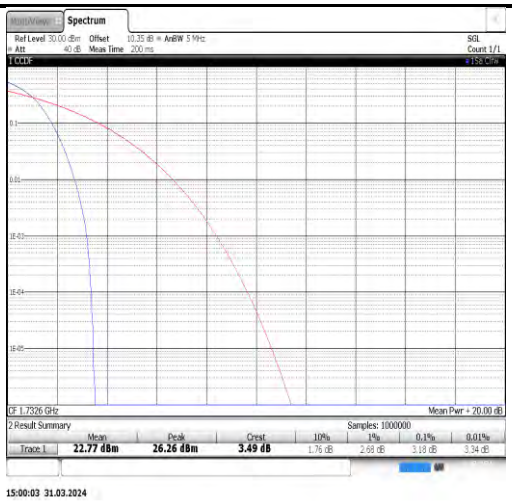
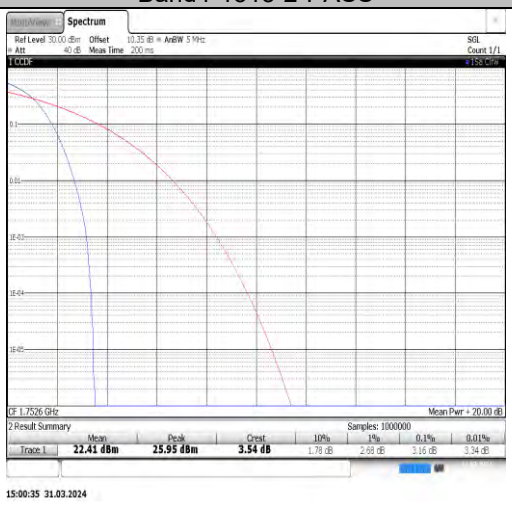
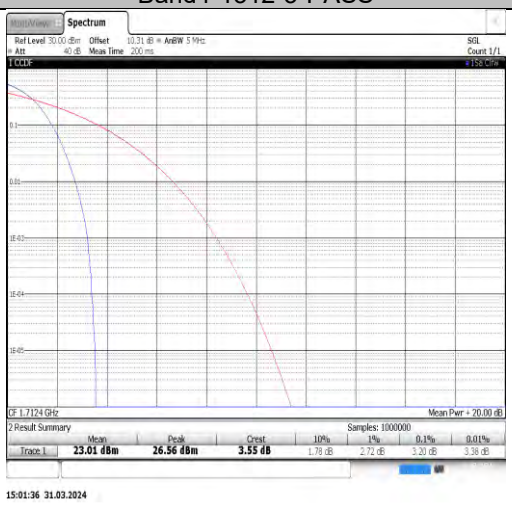


Band4-1513-2-PASS



Band4-1312-3-PASS



Band4-1413-3-PASS

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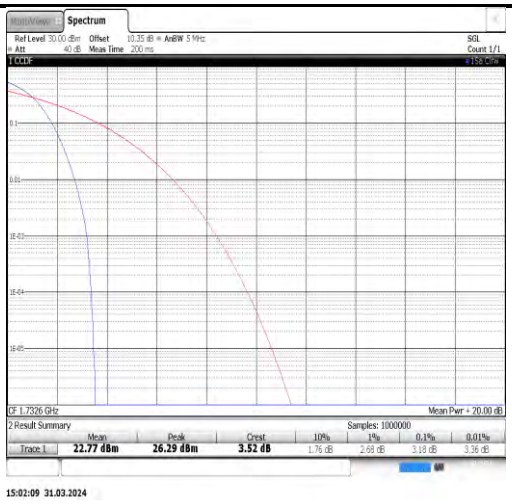
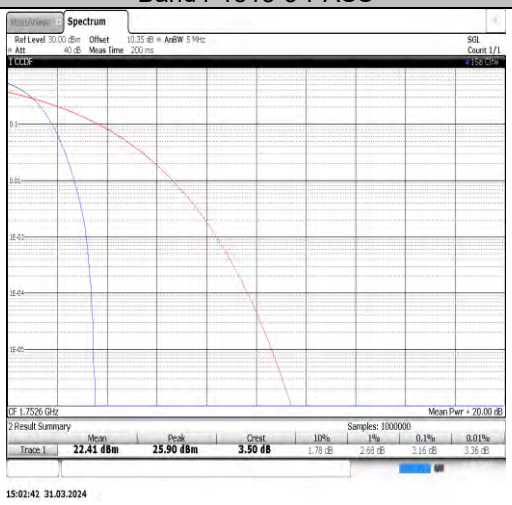
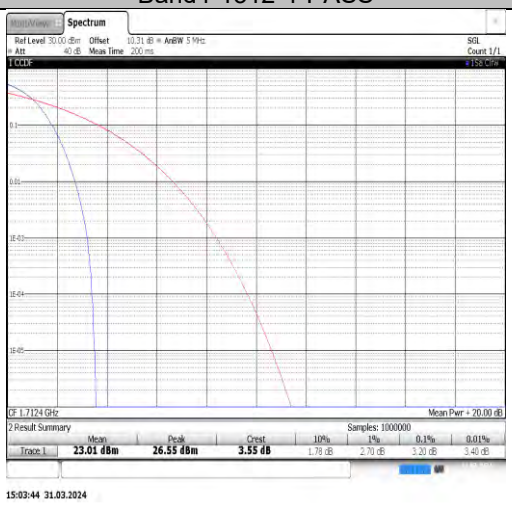


Band4-1513-3-PASS



Band4-1312-4-PASS



Band4-1413-4-PASS

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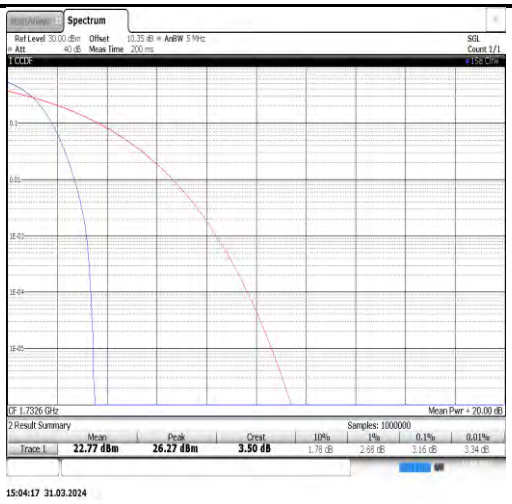
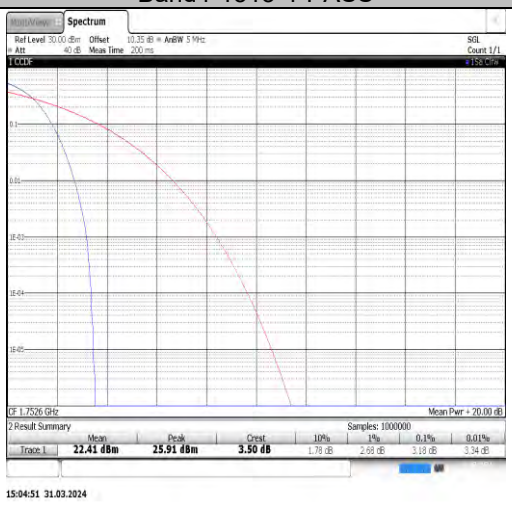
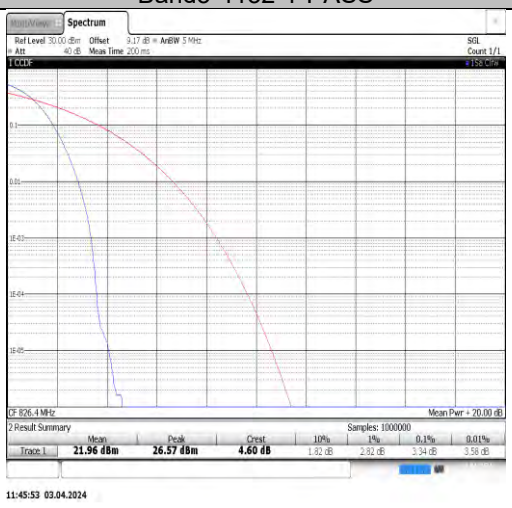


Band4-1513-4-PASS



Band5-4132-1-PASS



Band5-4182-1-PASS

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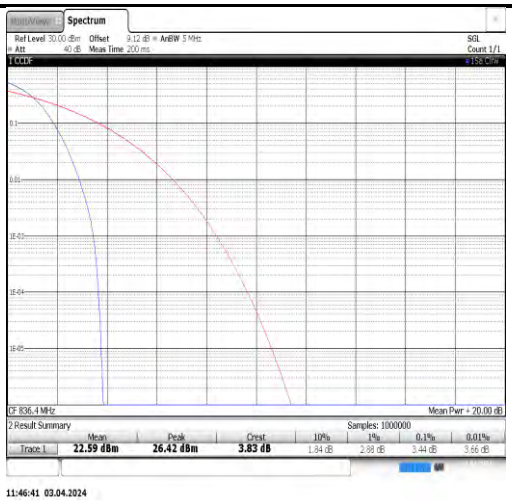
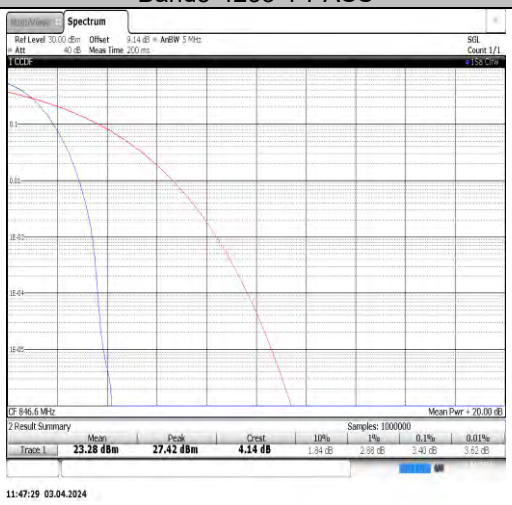
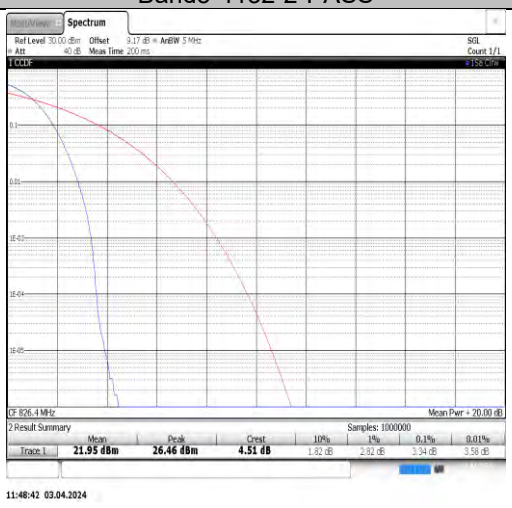


Band5-4233-1-PASS



Band5-4132-2-PASS



Band5-4182-2-PASS

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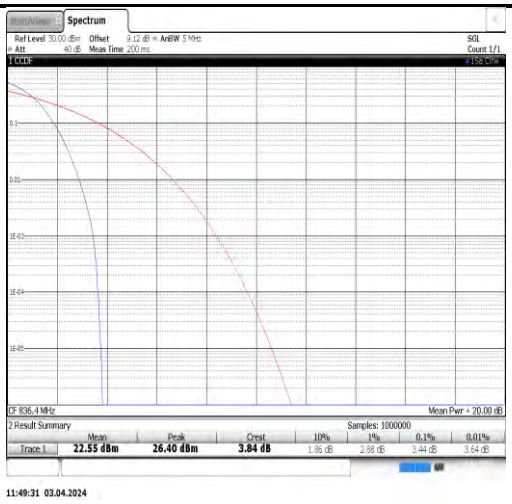
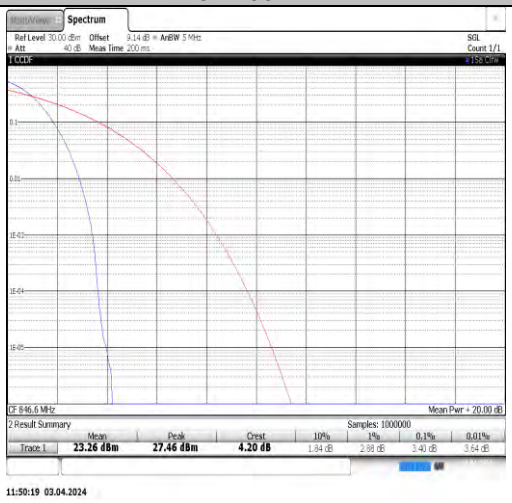


Band5-4233-2-PASS



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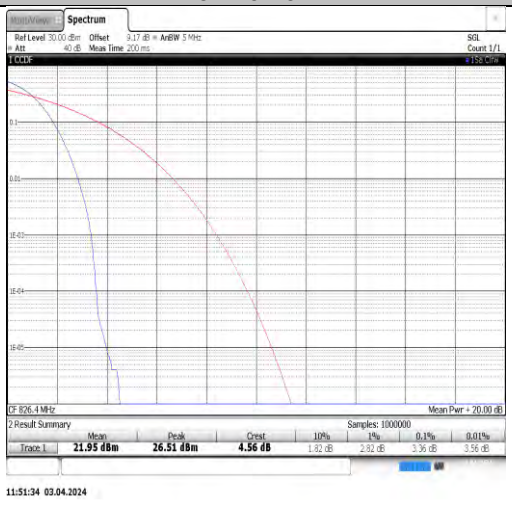

Band5-4182-3-PASS

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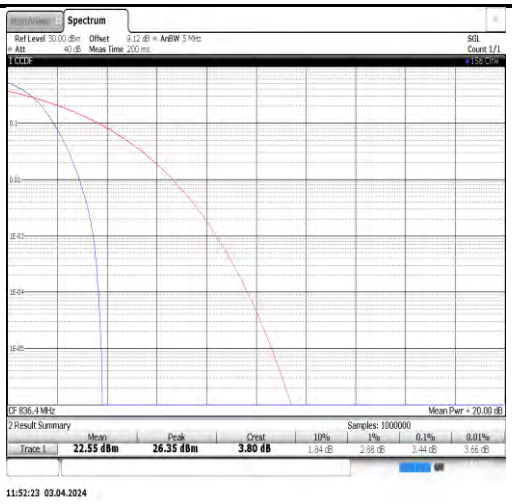

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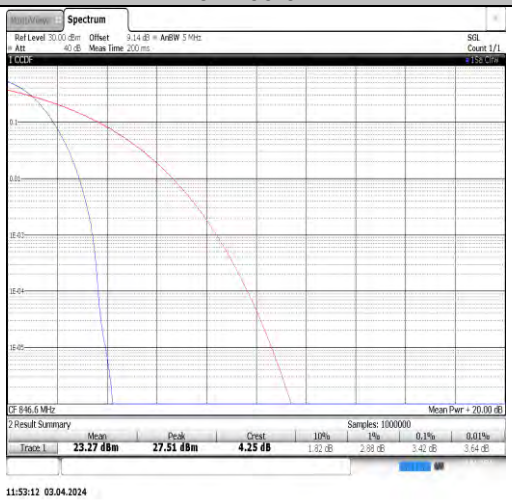

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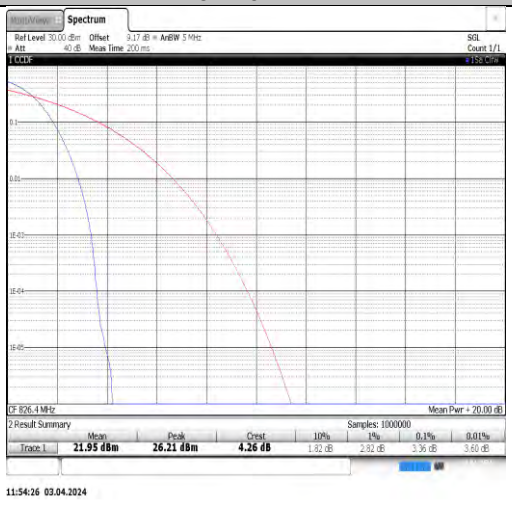

Band5-4182-4-PASS

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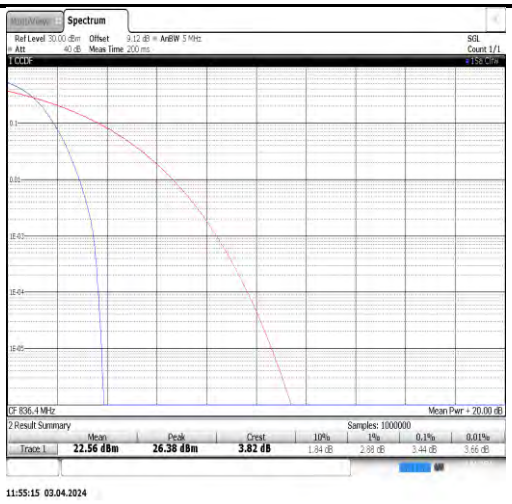

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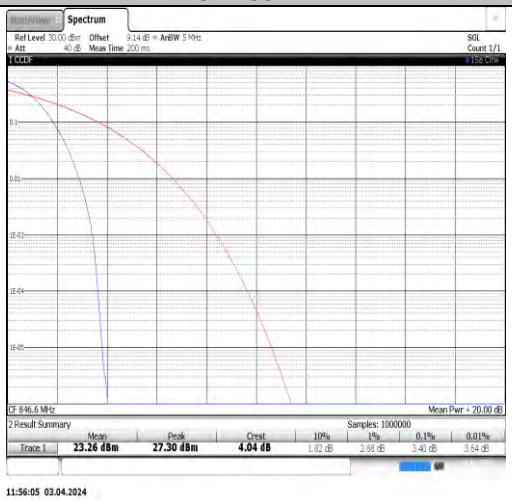
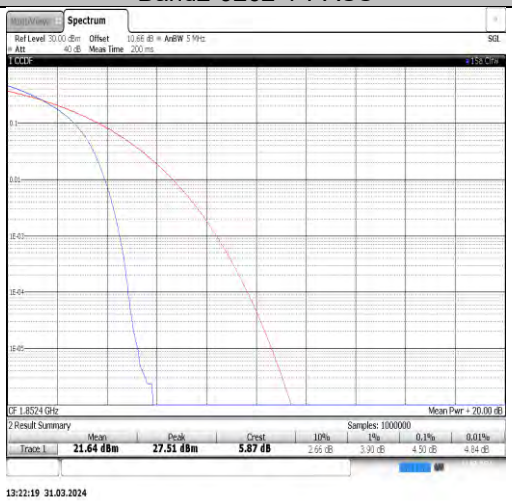


HSUPA:

Band2-9262-1-PASS



Band2-9400-1-PASS

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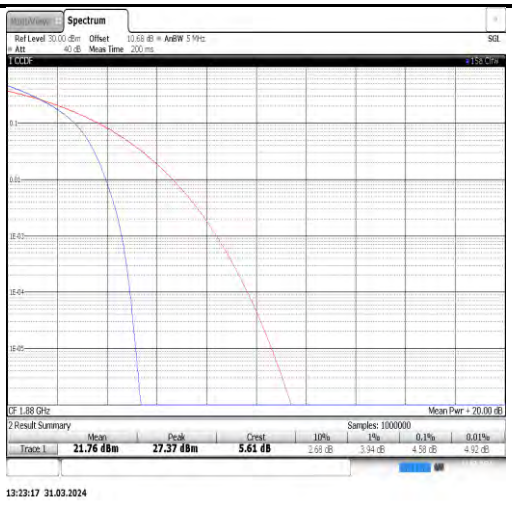
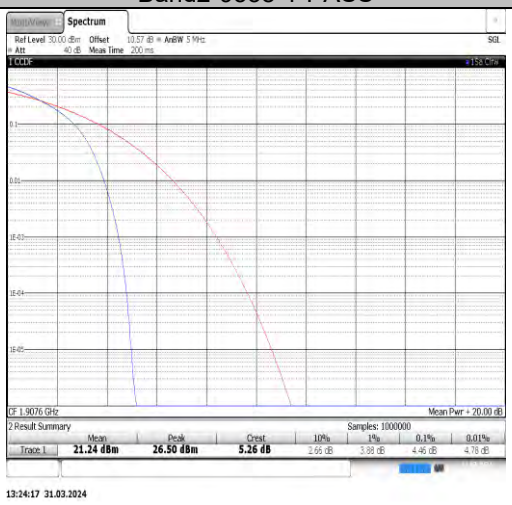


Band2-9538-1-PASS



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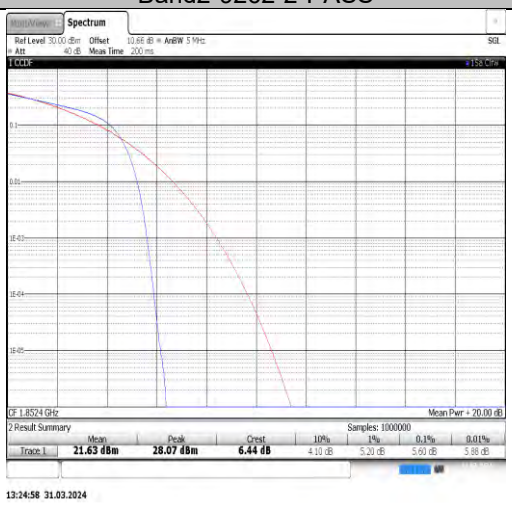

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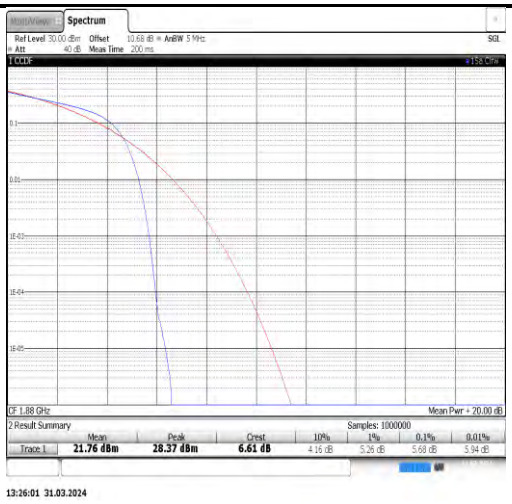

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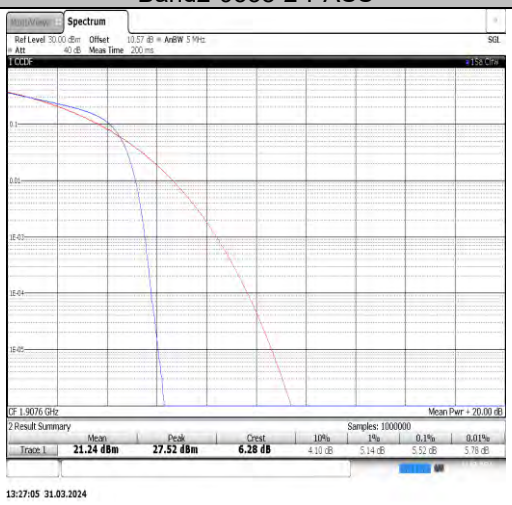

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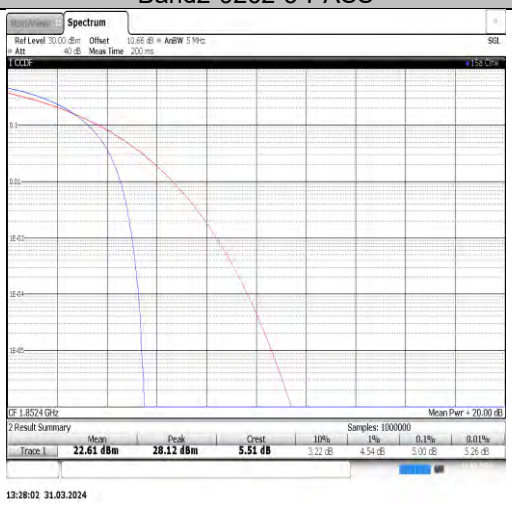

Band2-9400-3-PASS

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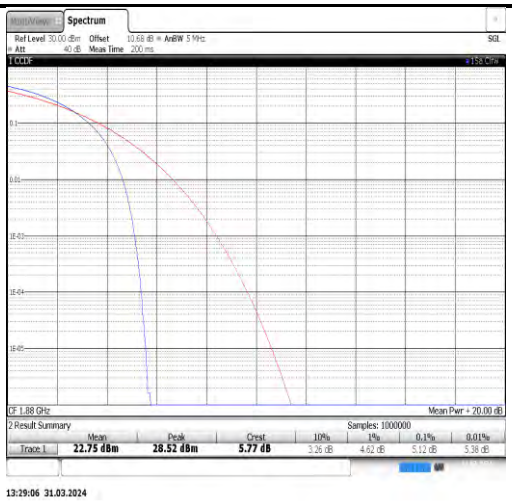

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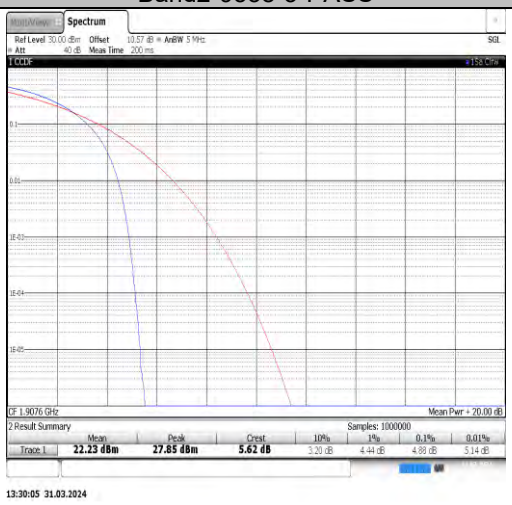

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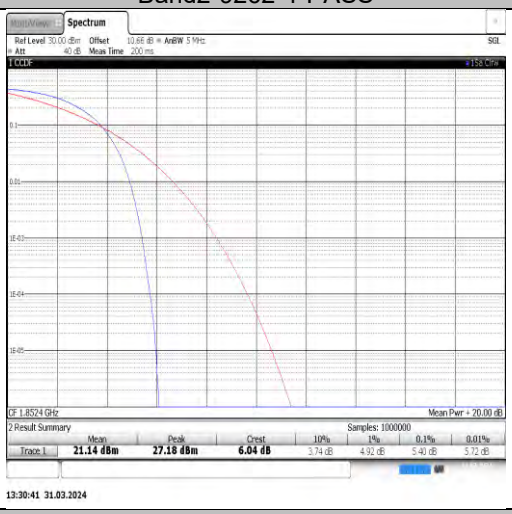

Band2-9400-4-PASS

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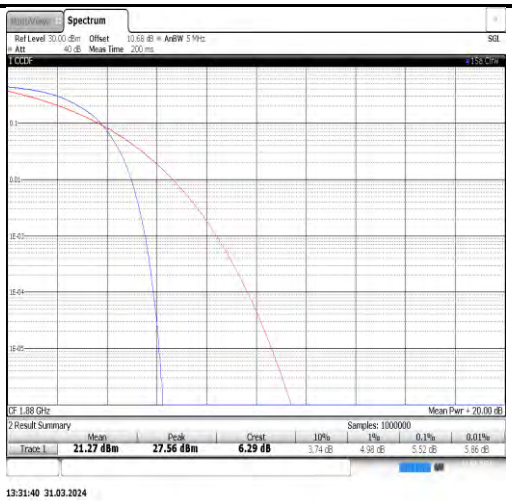

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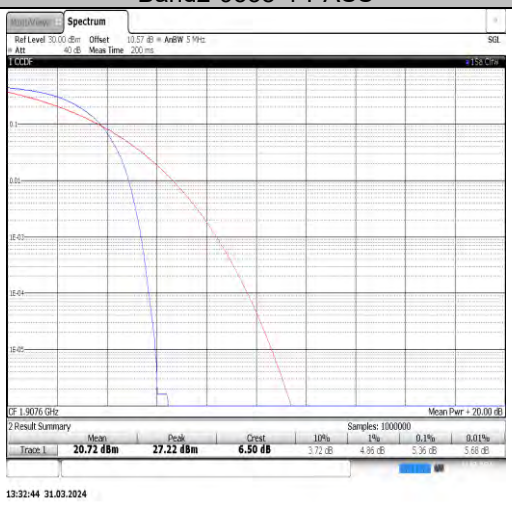
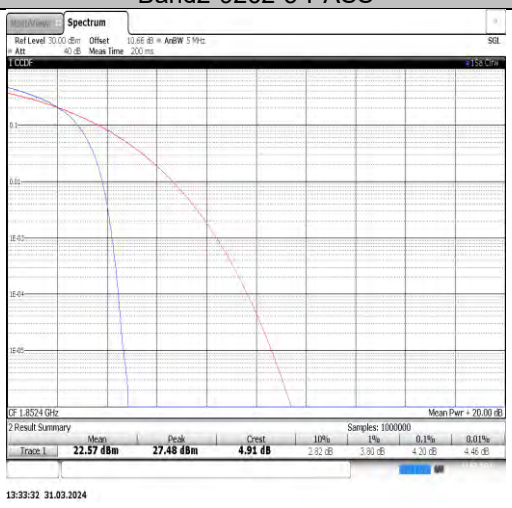


Band2-9262-5-PASS



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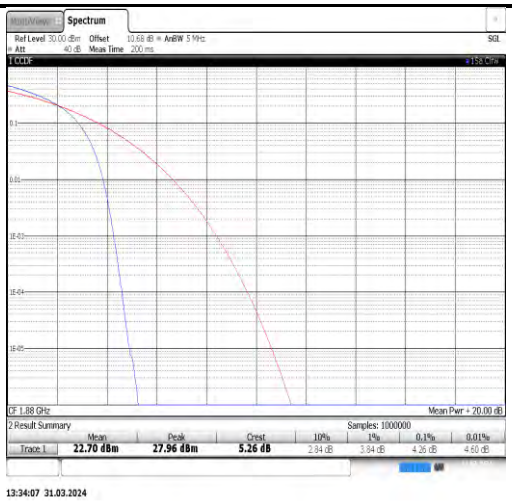

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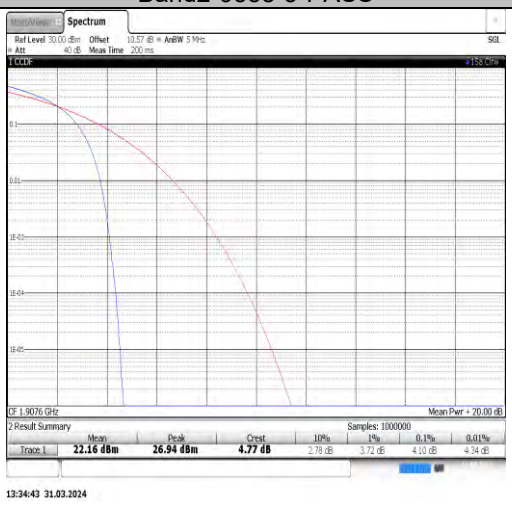
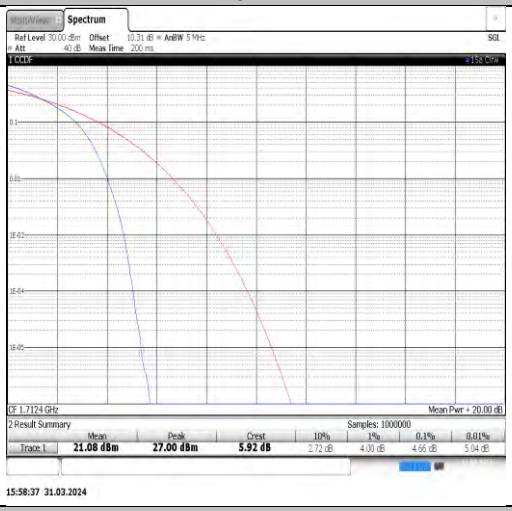


Band4-1312-1-PASS



Band4-1413-1-PASS

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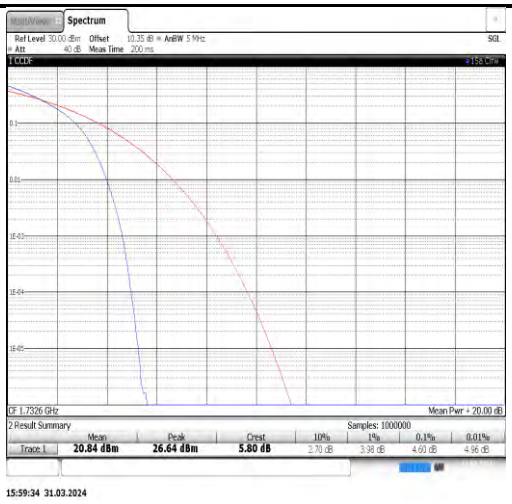

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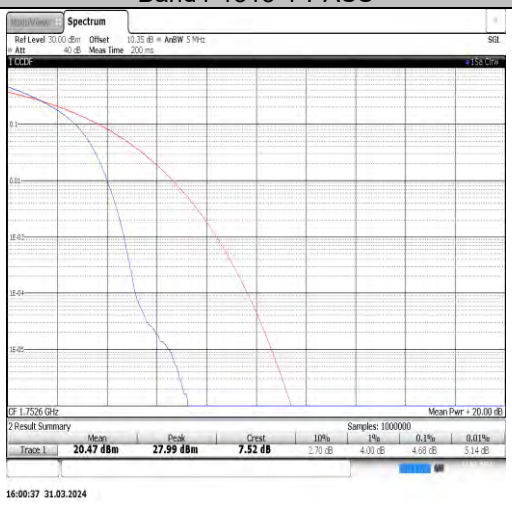

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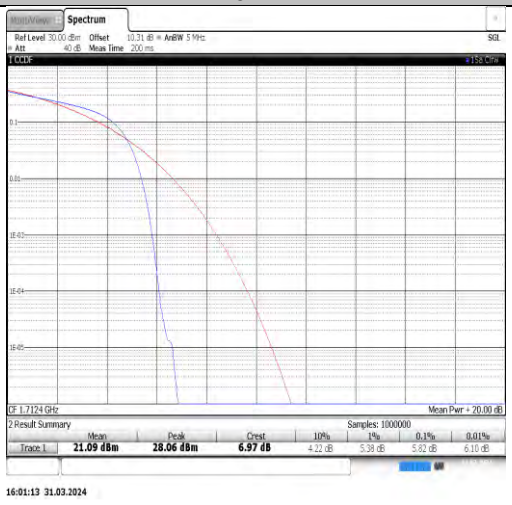

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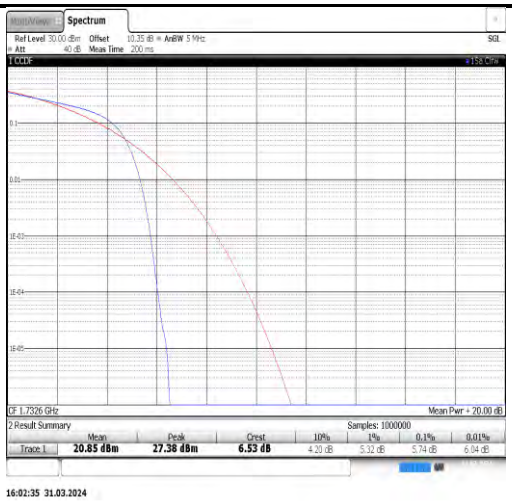

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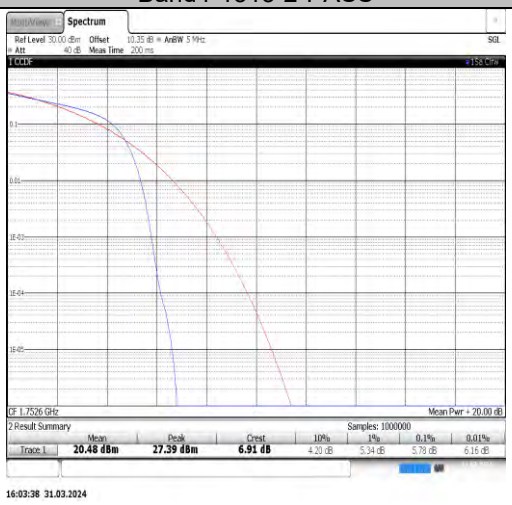

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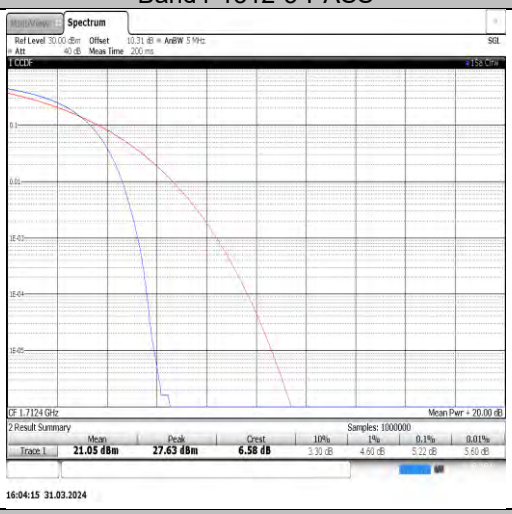

Band4-1413-3-PASS

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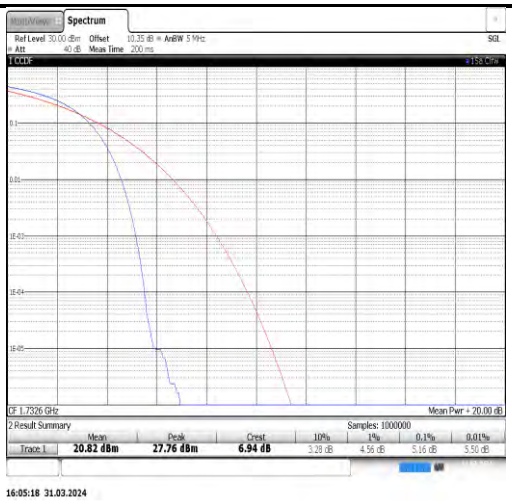

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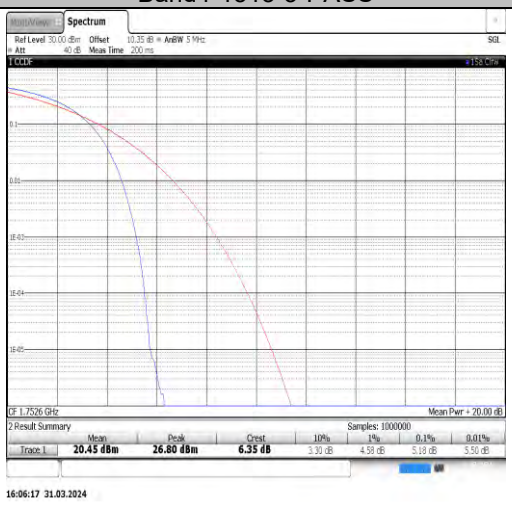
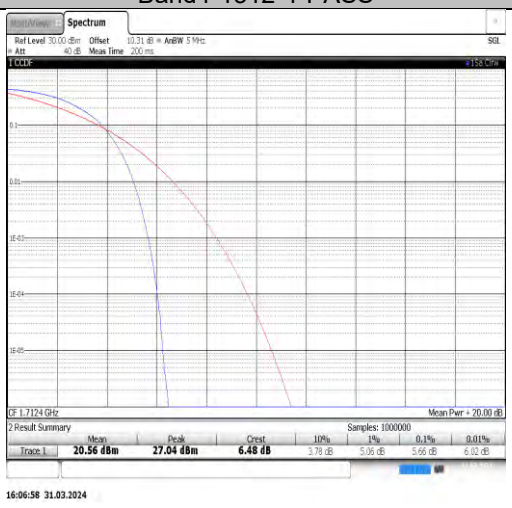


Band4-1312-4-PASS



Band4-1413-4-PASS

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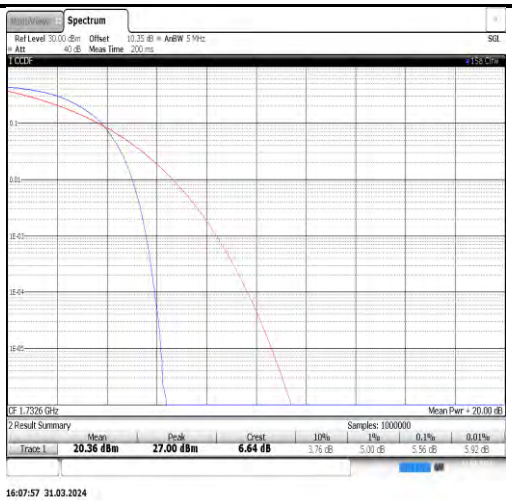

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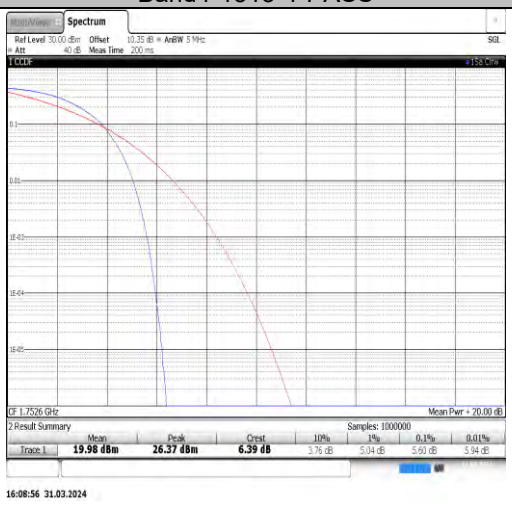
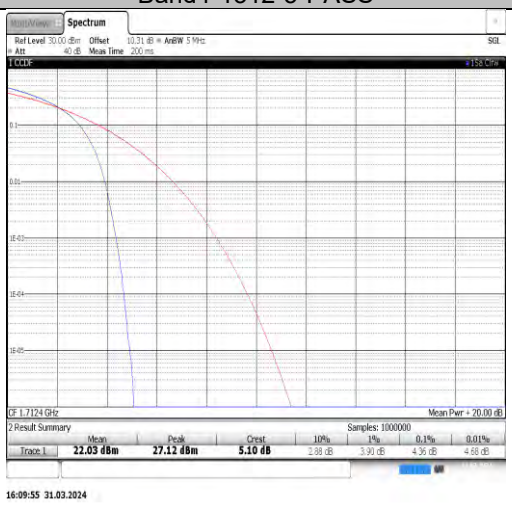


Band4-1312-5-PASS



Band4-1413-5-PASS

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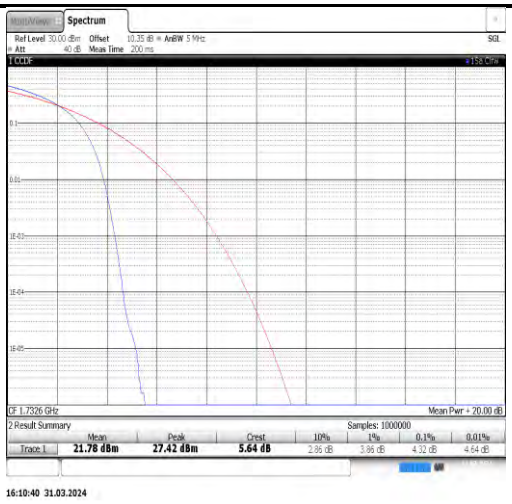

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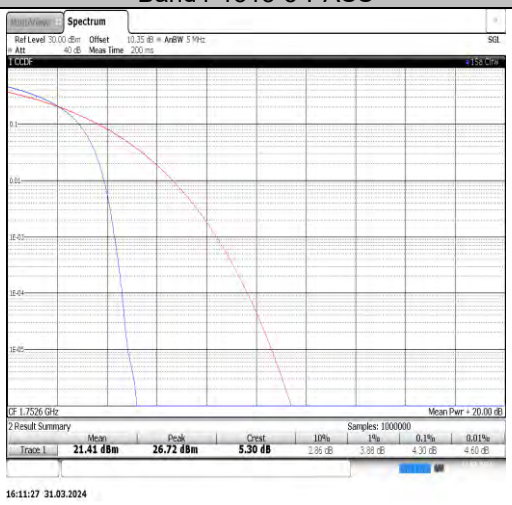
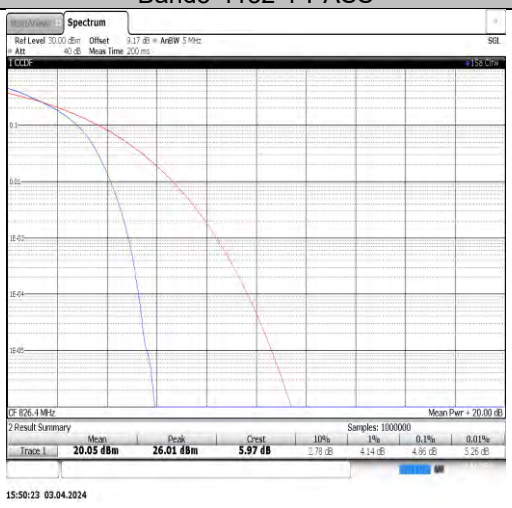


Band5-4132-1-PASS



Band5-4182-1-PASS

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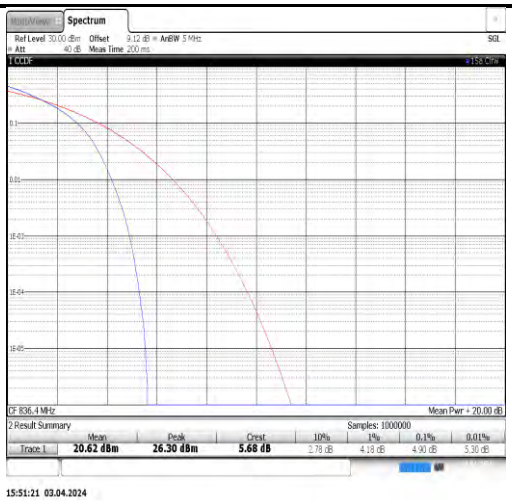

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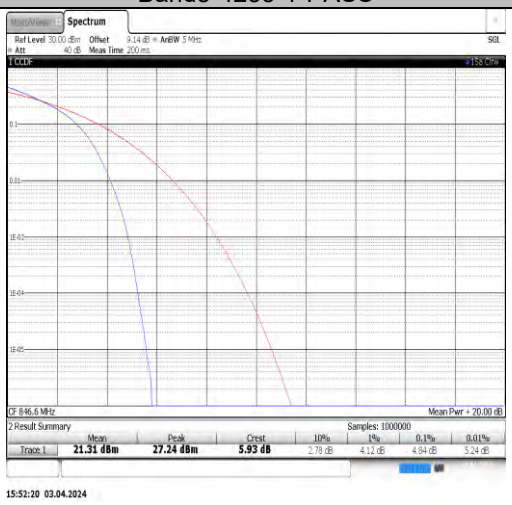

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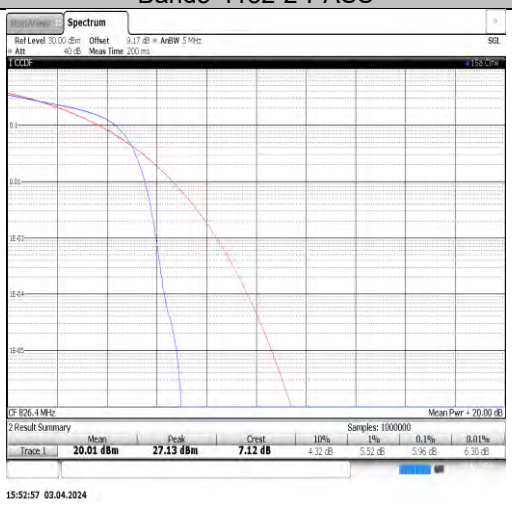

Band5-4182-2-PASS

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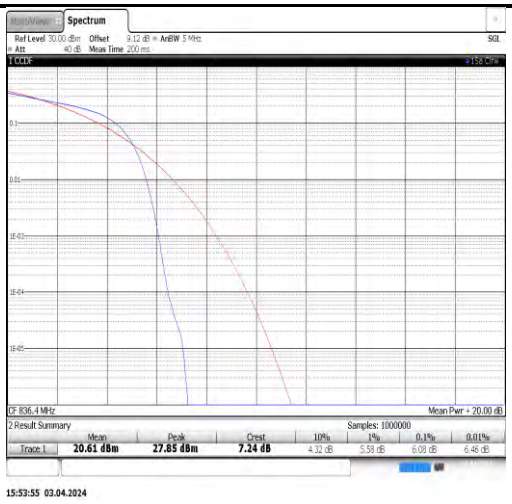

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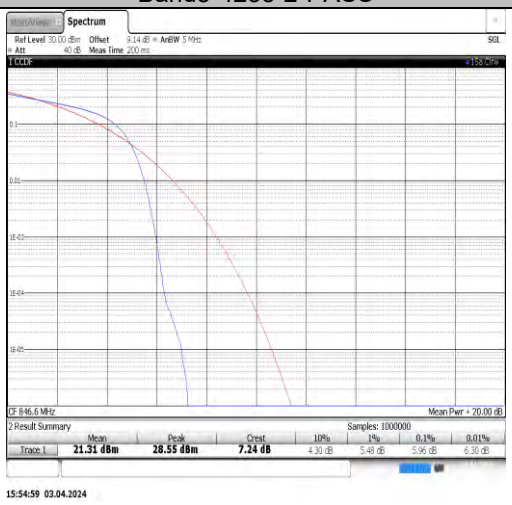

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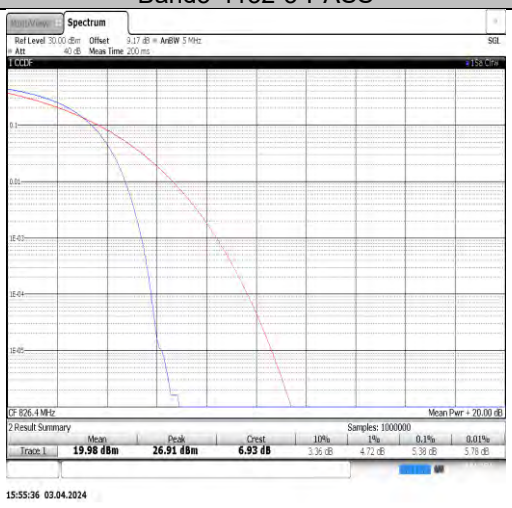

Band5-4182-3-PASS

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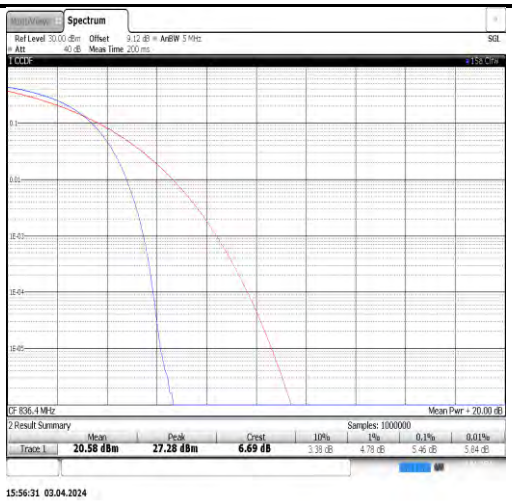

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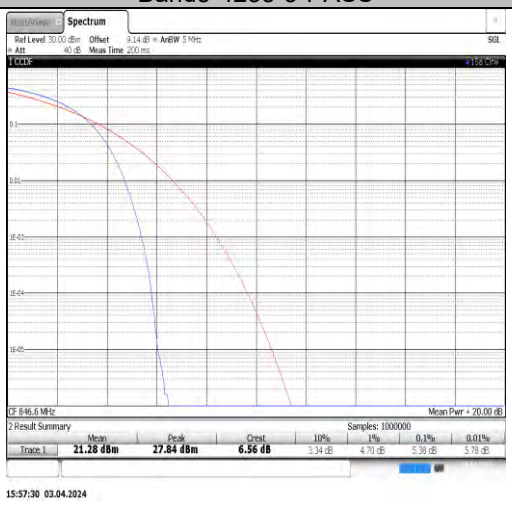
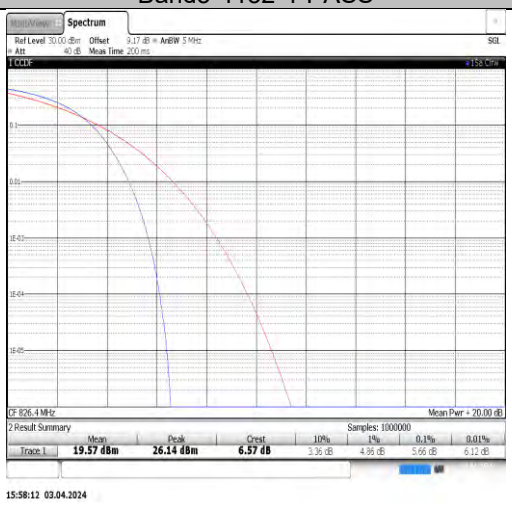


Band5-4132-4-PASS



Band5-4182-4-PASS

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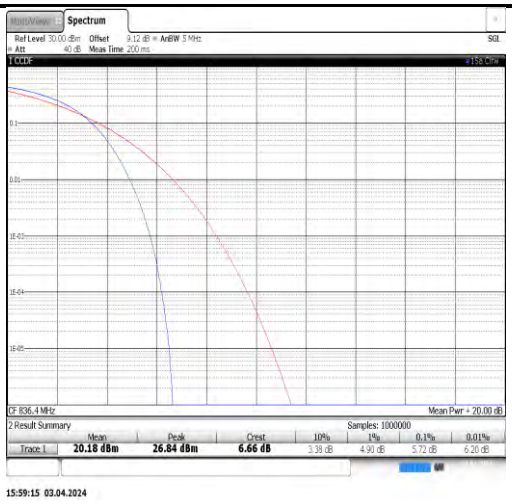
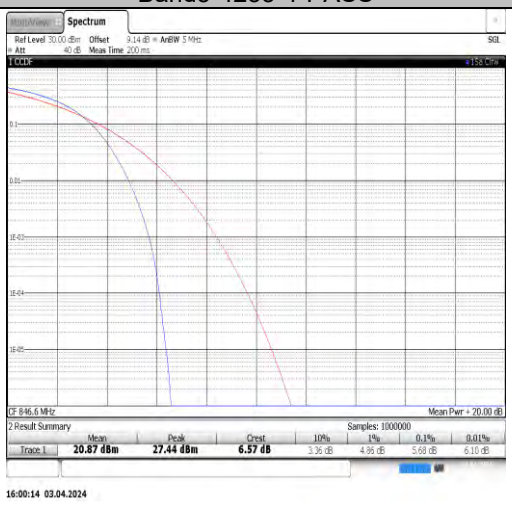
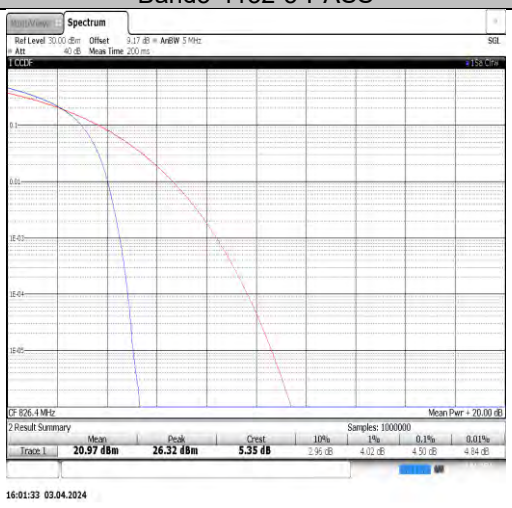


Band5-4233-4-PASS



Band5-4132-5-PASS



Band5-4182-5-PASS

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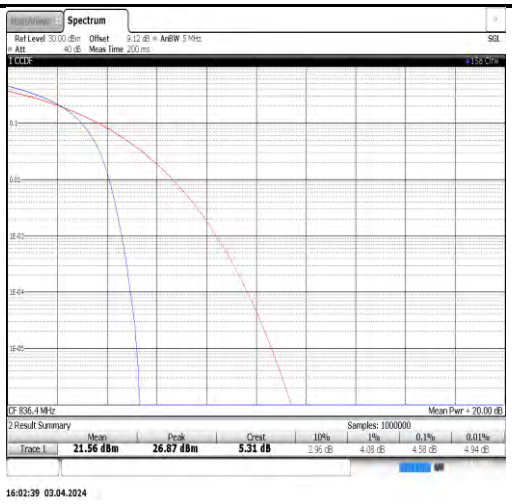
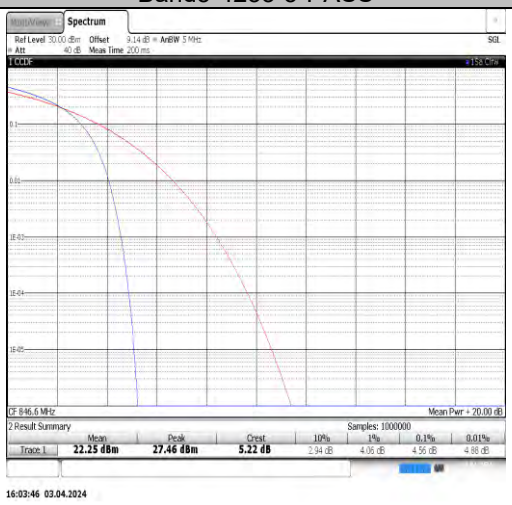


Band5-4233-5-PASS



8.3. AppendixC:26dB Bandwidth and Occupied Bandwidth

8.3.1. Test Result

REL99:

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.165	4.72	---	PASS
Band2	9400	4.152	4.72	---	PASS
Band2	9538	4.161	4.73	---	PASS
Band4	1312	4.168	4.73	---	PASS
Band4	1413	4.169	4.71	---	PASS
Band4	1513	4.173	4.73	---	PASS
Band5	4132	4.160	4.71	---	PASS
Band5	4182	4.160	4.71	---	PASS
Band5	4233	4.150	4.69	---	PASS

HSDPA:

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.164	4.72	---	PASS
Band2	9400	1	4.164	4.71	---	PASS

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Band2	9538	1	4.161	4.73	---	PASS
Band2	9262	2	4.161	4.71	---	PASS
Band2	9400	2	4.164	4.72	---	PASS
Band2	9538	2	4.154	4.72	---	PASS
Band2	9262	3	4.165	4.72	---	PASS
Band2	9400	3	4.163	4.72	---	PASS
Band2	9538	3	4.158	4.72	---	PASS
Band2	9262	4	4.168	4.71	---	PASS
Band2	9400	4	4.162	4.71	---	PASS
Band2	9538	4	4.159	4.73	---	PASS
Band4	1312	1	4.166	4.72	---	PASS
Band4	1413	1	4.17	4.72	---	PASS
Band4	1513	1	4.169	4.71	---	PASS
Band4	1312	2	4.166	4.71	---	PASS
Band4	1413	2	4.168	4.72	---	PASS
Band4	1513	2	4.166	4.71	---	PASS
Band4	1312	3	4.169	4.72	---	PASS
Band4	1413	3	4.169	4.72	---	PASS
Band4	1513	3	4.167	4.72	---	PASS
Band4	1312	4	4.164	4.71	---	PASS
Band4	1413	4	4.172	4.72	---	PASS
Band4	1513	4	4.169	4.73	---	PASS
Band5	4132	1	4.164	4.72	---	PASS
Band5	4182	1	4.172	4.70	---	PASS
Band5	4233	1	4.152	4.71	---	PASS
Band5	4132	2	4.168	4.70	---	PASS
Band5	4182	2	4.171	4.72	---	PASS
Band5	4233	2	4.151	4.70	---	PASS
Band5	4132	3	4.168	4.71	---	PASS
Band5	4182	3	4.174	4.71	---	PASS
Band5	4233	3	4.153	4.71	---	PASS
Band5	4132	4	4.169	4.71	---	PASS
Band5	4182	4	4.168	4.71	---	PASS
Band5	4233	4	4.148	4.70	---	PASS

HSUPA:

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.187	4.71	---	PASS
Band2	9400	1	4.186	4.71	---	PASS
Band2	9538	1	4.187	4.71	---	PASS
Band2	9262	2	4.187	4.72	---	PASS
Band2	9400	2	4.181	4.73	---	PASS
Band2	9538	2	4.187	4.73	---	PASS
Band2	9262	3	4.195	4.74	---	PASS
Band2	9400	3	4.192	4.73	---	PASS
Band2	9538	3	4.191	4.74	---	PASS
Band2	9262	4	4.196	4.75	---	PASS
Band2	9400	4	4.189	4.75	---	PASS
Band2	9538	4	4.184	4.73	---	PASS
Band2	9262	5	4.174	4.71	---	PASS
Band2	9400	5	4.172	4.70	---	PASS
Band2	9538	5	4.163	4.72	---	PASS
Band4	1312	1	4.183	4.72	---	PASS
Band4	1413	1	4.187	4.74	---	PASS
Band4	1513	1	4.191	4.93	---	PASS
Band4	1312	2	4.204	4.75	---	PASS
Band4	1413	2	4.196	4.73	---	PASS
Band4	1513	2	4.187	4.74	---	PASS

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Band4	1312	3	4.201	4.73	---	PASS
Band4	1413	3	4.212	5.20	---	PASS
Band4	1513	3	4.195	4.73	---	PASS
Band4	1312	4	4.202	4.76	---	PASS
Band4	1413	4	4.214	5.99	---	PASS
Band4	1513	4	4.198	4.75	---	PASS
Band4	1312	5	4.176	4.74	---	PASS
Band4	1413	5	4.173	4.72	---	PASS
Band4	1513	5	4.175	4.71	---	PASS
Band5	4132	1	4.192	4.73	---	PASS
Band5	4182	1	4.204	4.71	---	PASS
Band5	4233	1	4.182	4.72	---	PASS
Band5	4132	2	4.216	4.76	---	PASS
Band5	4182	2	4.223	4.78	---	PASS
Band5	4233	2	4.194	4.75	---	PASS
Band5	4132	3	4.211	4.73	---	PASS
Band5	4182	3	4.207	4.75	---	PASS
Band5	4233	3	4.194	4.76	---	PASS
Band5	4132	4	4.212	5.54	---	PASS
Band5	4182	4	4.223	4.78	---	PASS
Band5	4233	4	4.194	4.77	---	PASS
Band5	4132	5	4.177	4.73	---	PASS
Band5	4182	5	4.173	4.72	---	PASS
Band5	4233	5	4.156	4.70	---	PASS

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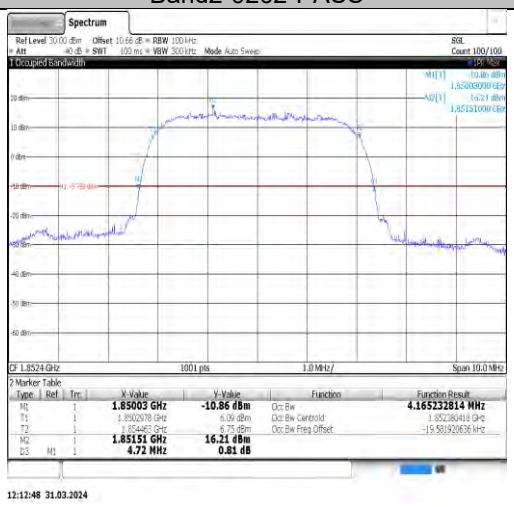
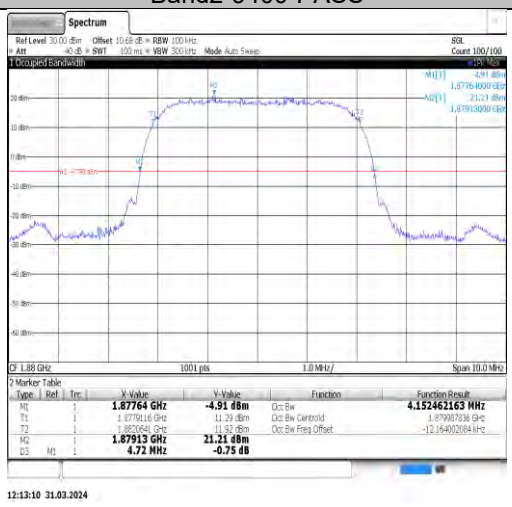
8.3.2. Test Graphs

REL99:

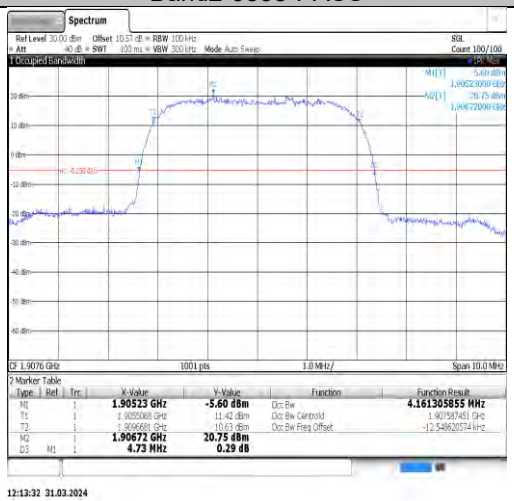
Band2-9262-PASS



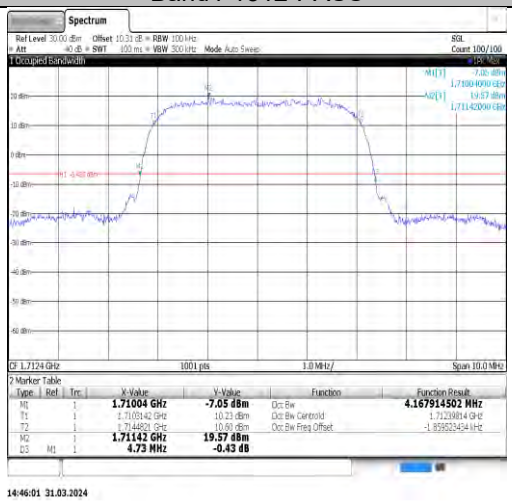
Band2-9400-PASS



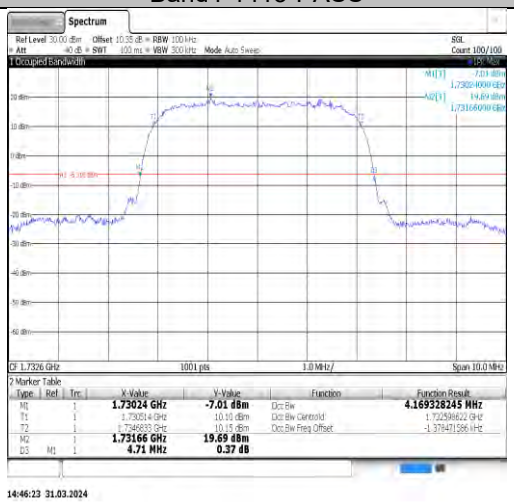
Band2-9538-PASS



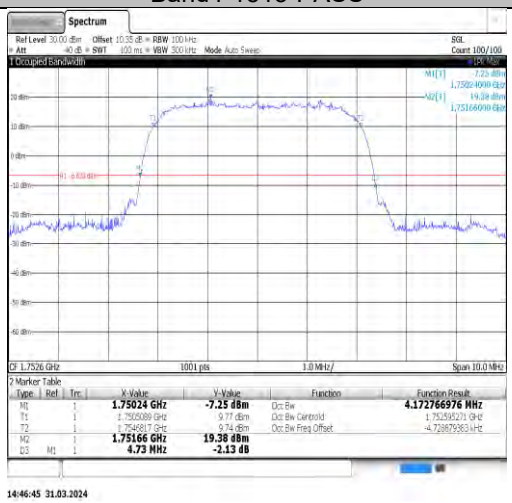
Band4-1312-PASS



Band4-1413-PASS



Band4-1513-PASS



Band5-4132-PASS

Band5-4182-PASS

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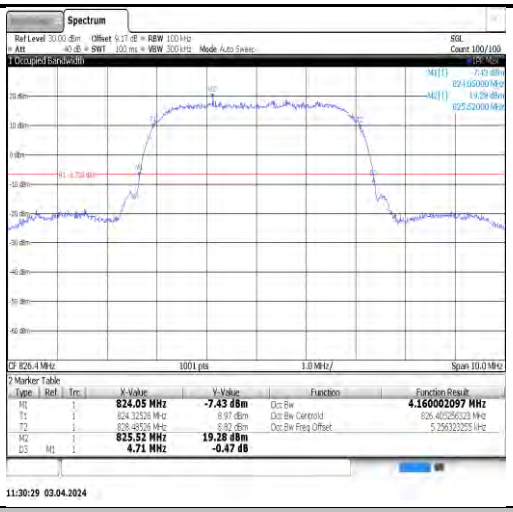
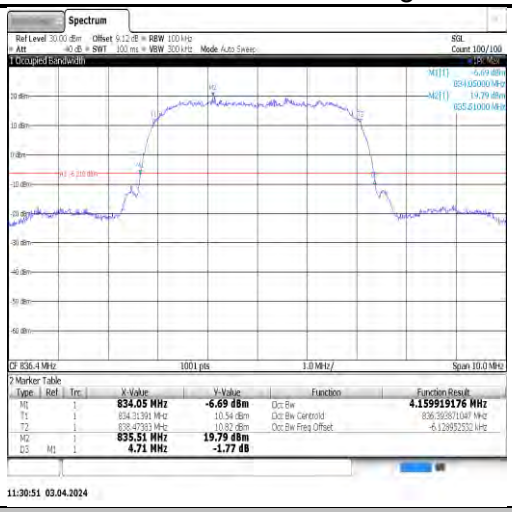
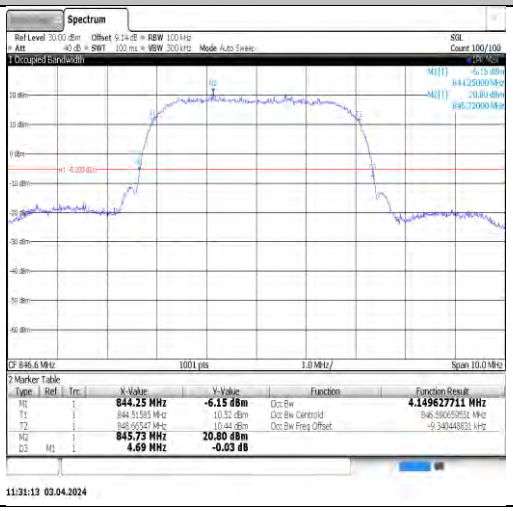


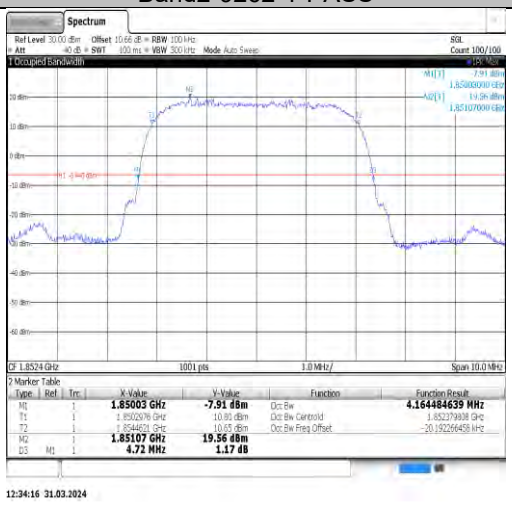


Band5-4233-PASS



HSDPA:

Band2-9262-1-PASS



Band2-9400-1-PASS

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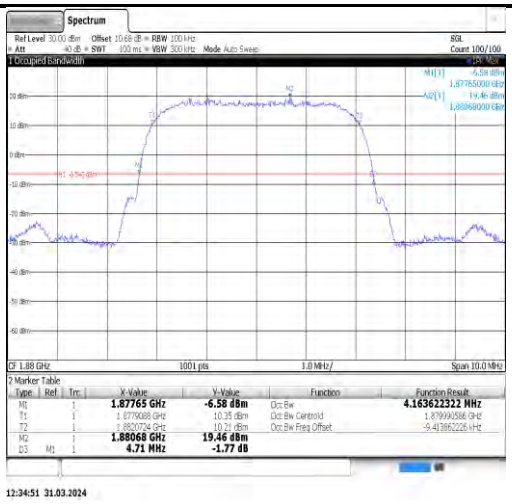
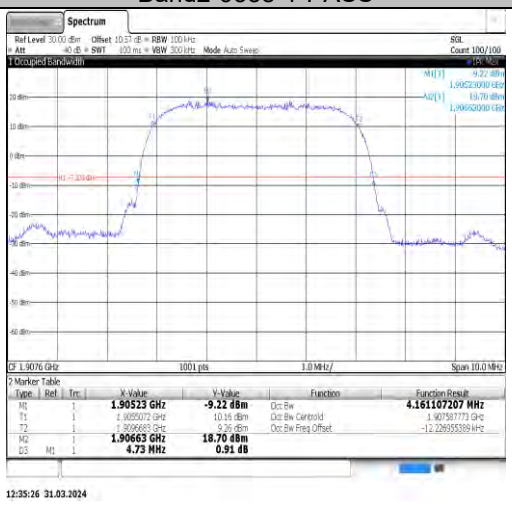
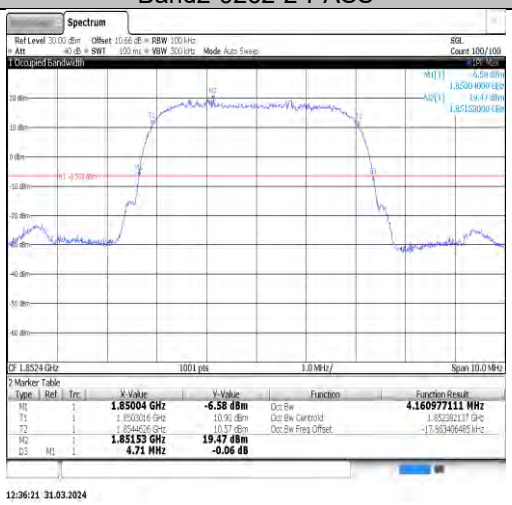


Band2-9538-1-PASS



Band2-9262-2-PASS



Band2-9400-2-PASS

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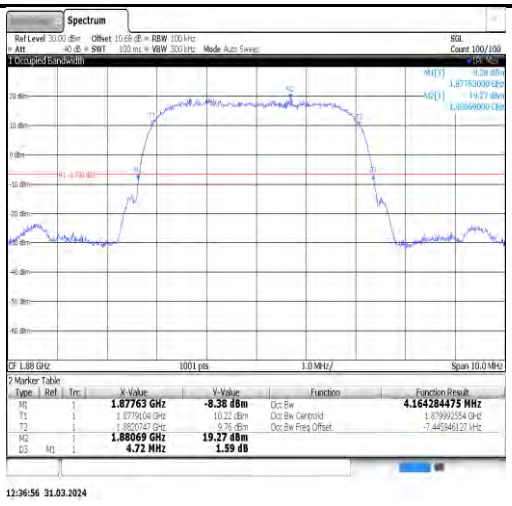
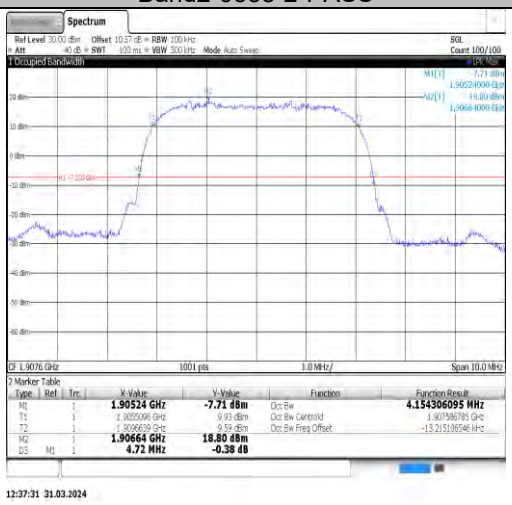
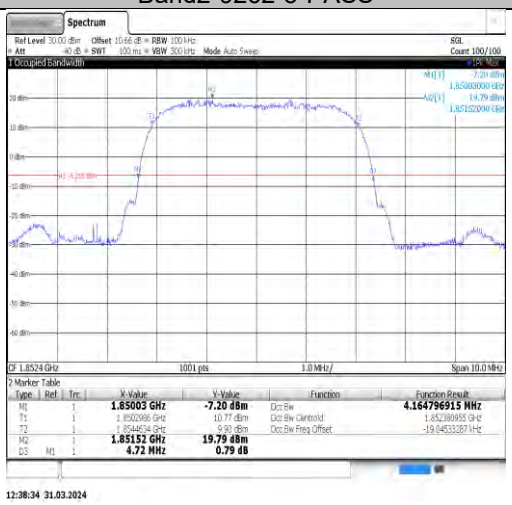


Band2-9538-2-PASS



Band2-9262-3-PASS



Band2-9400-3-PASS

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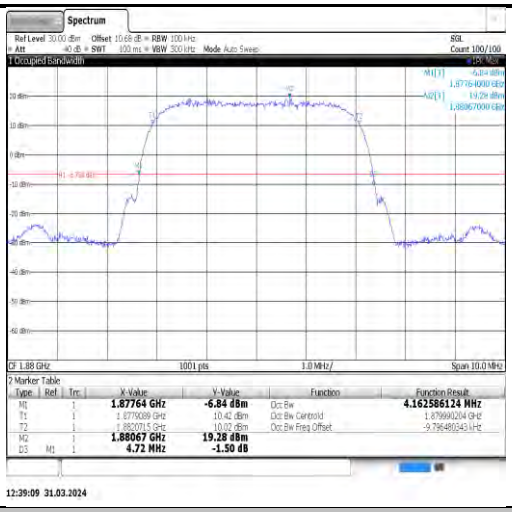
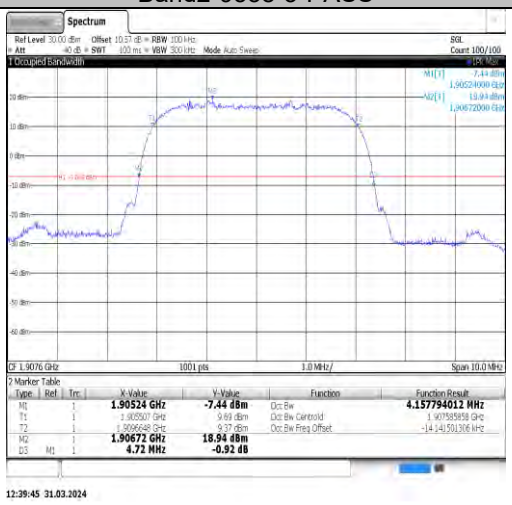
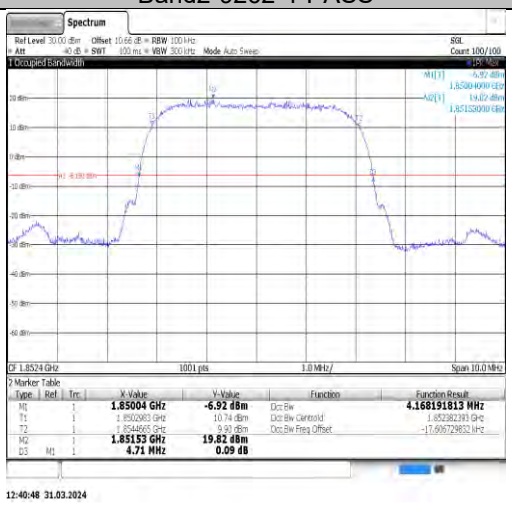


Band2-9538-3-PASS



Band2-9262-4-PASS



Band2-9400-4-PASS

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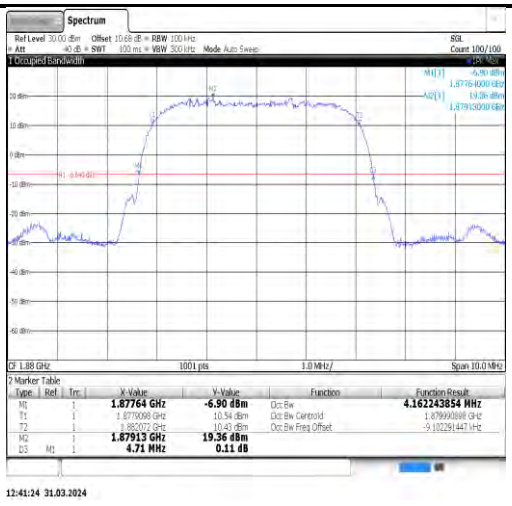
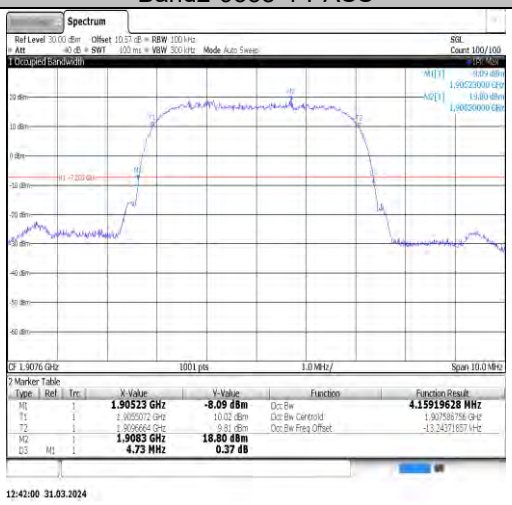
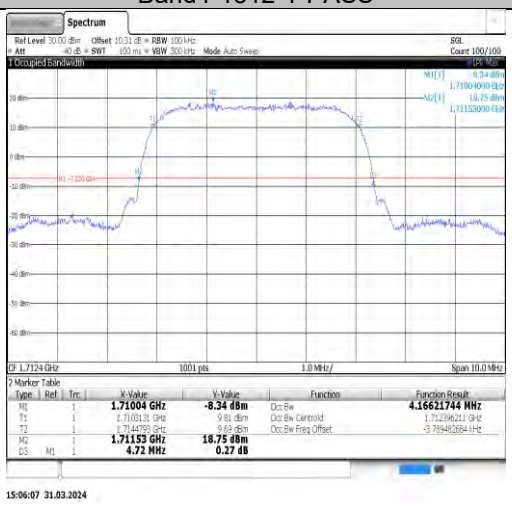


Band2-9538-4-PASS



Band4-1312-1-PASS



Band4-1413-1-PASS

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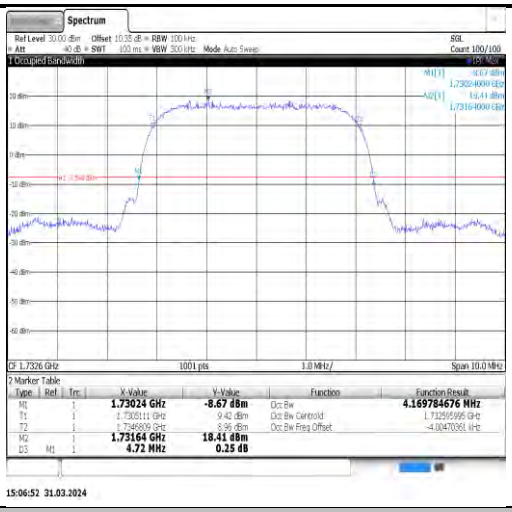
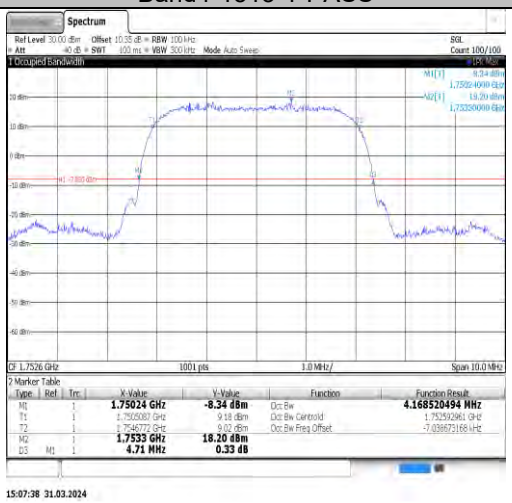
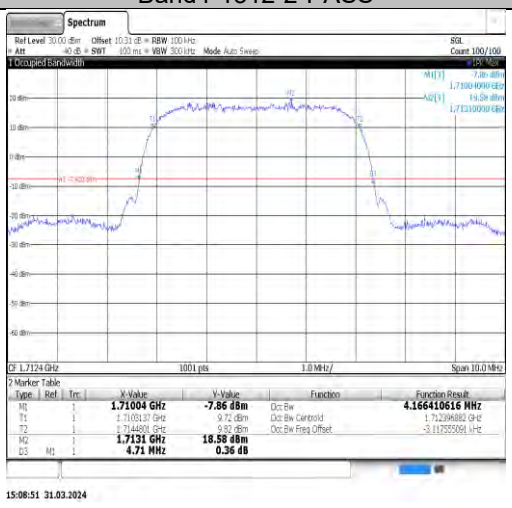


Band4-1513-1-PASS



Band4-1312-2-PASS



Band4-1413-2-PASS

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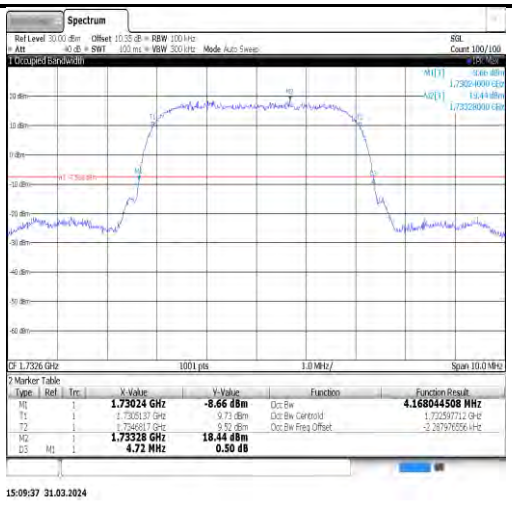
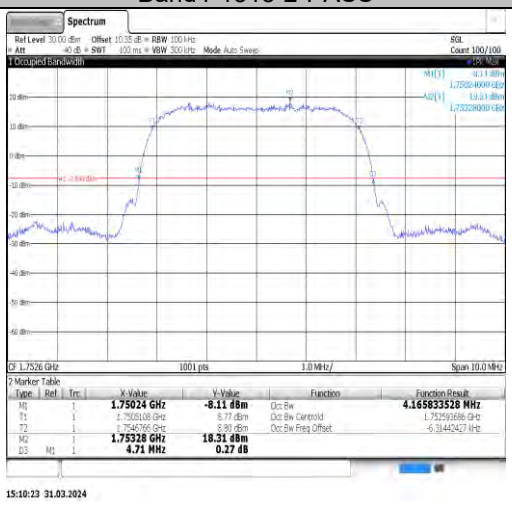
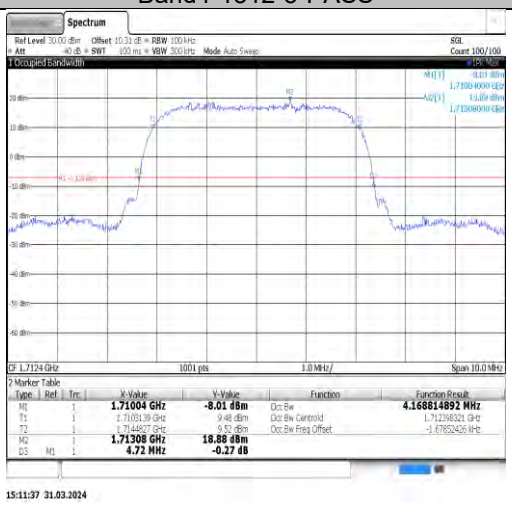


Band4-1513-2-PASS



Band4-1312-3-PASS



Band4-1413-3-PASS

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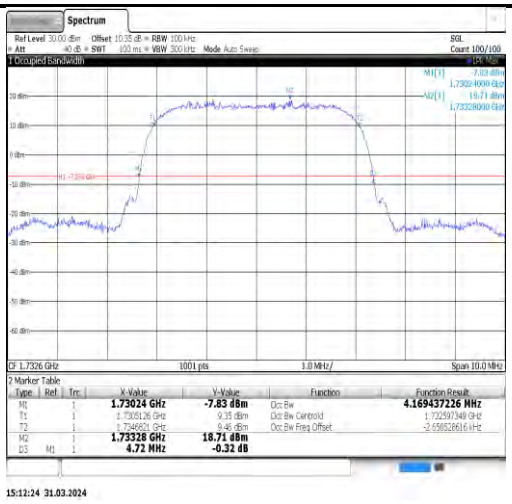
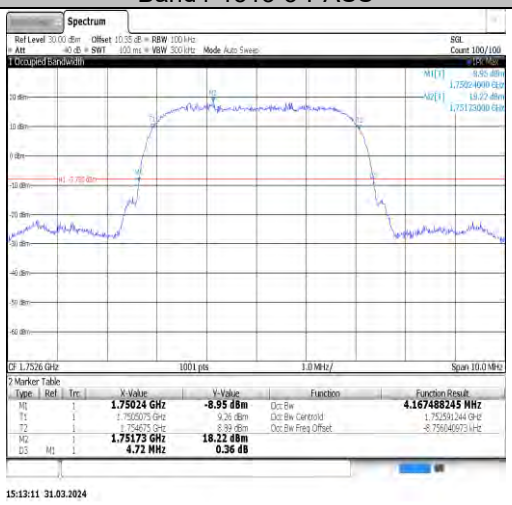
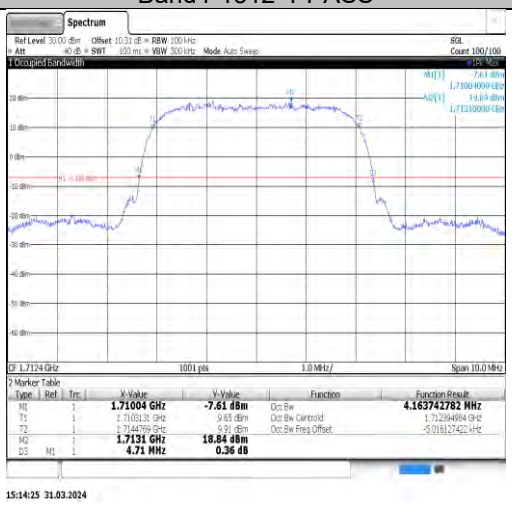


Band4-1513-3-PASS



Band4-1312-4-PASS



Band4-1413-4-PASS

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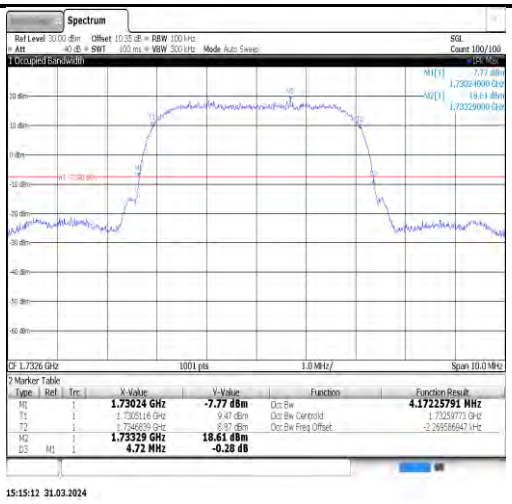
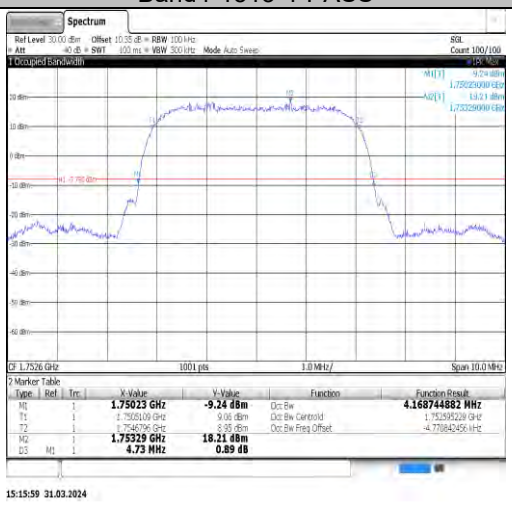
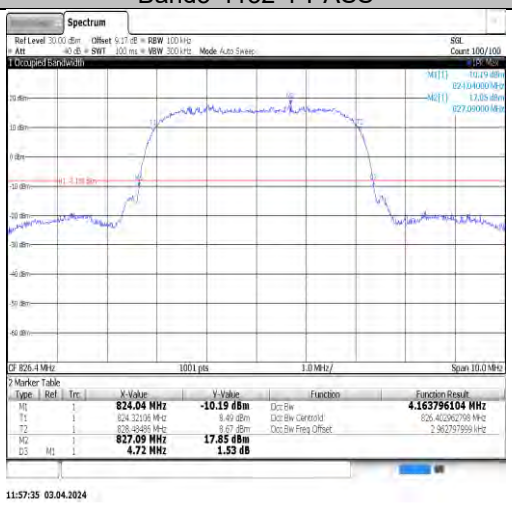


Band4-1513-4-PASS



Band5-4132-1-PASS



Band5-4182-1-PASS

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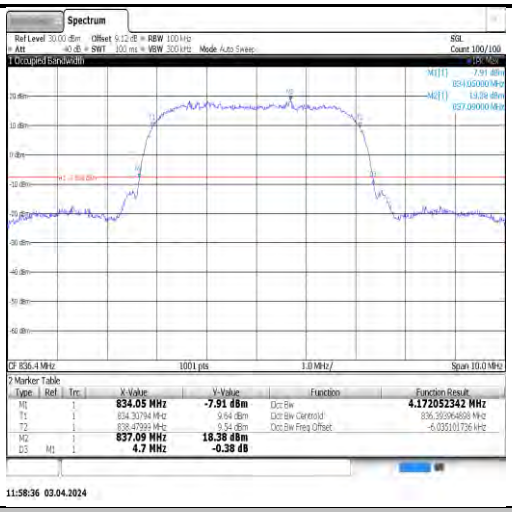
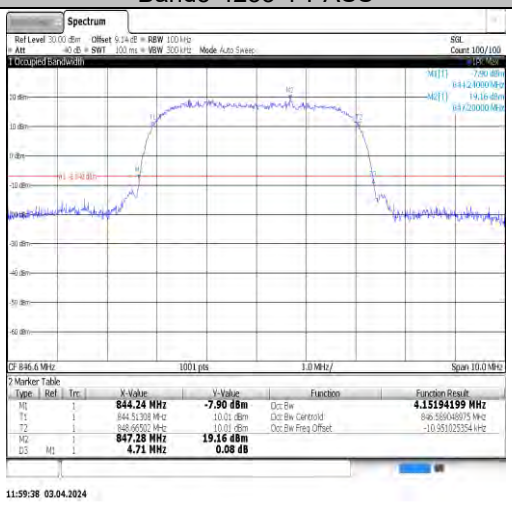
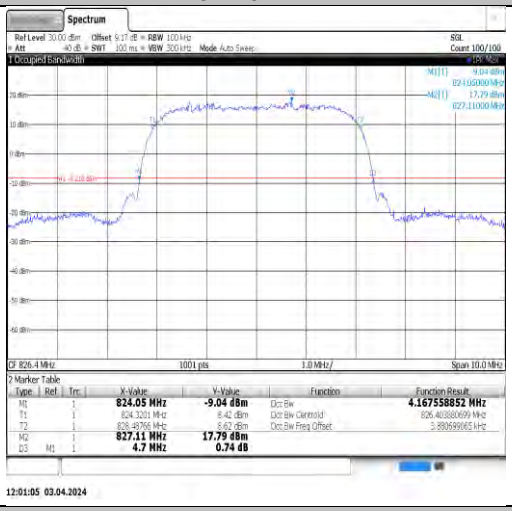


Band5-4233-1-PASS



Band5-4132-2-PASS



Band5-4182-2-PASS

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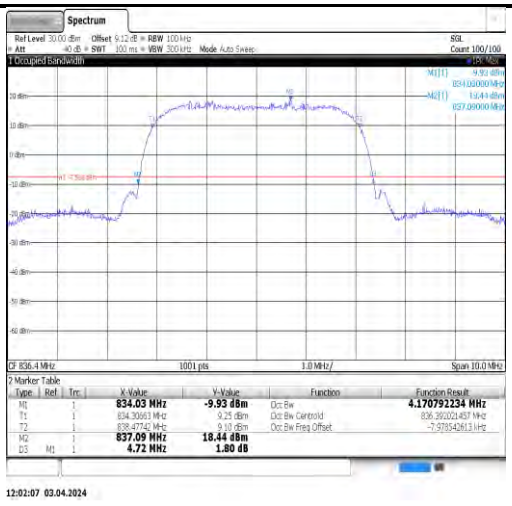

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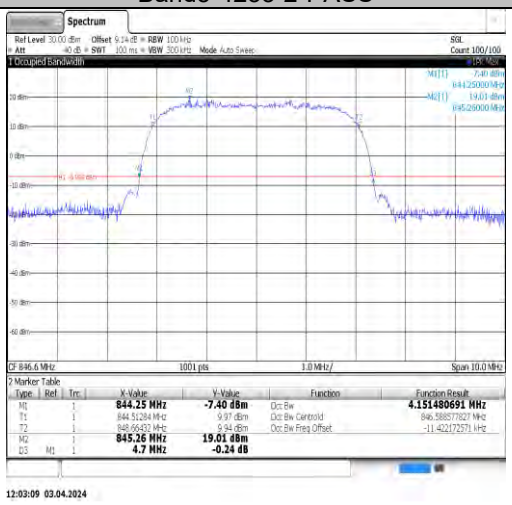
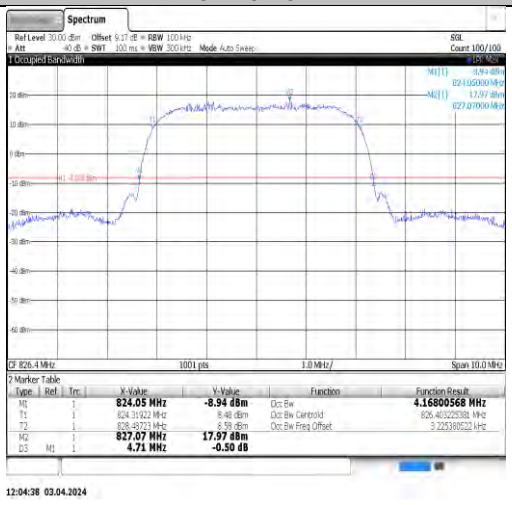


Band5-4132-3-PASS



Band5-4182-3-PASS

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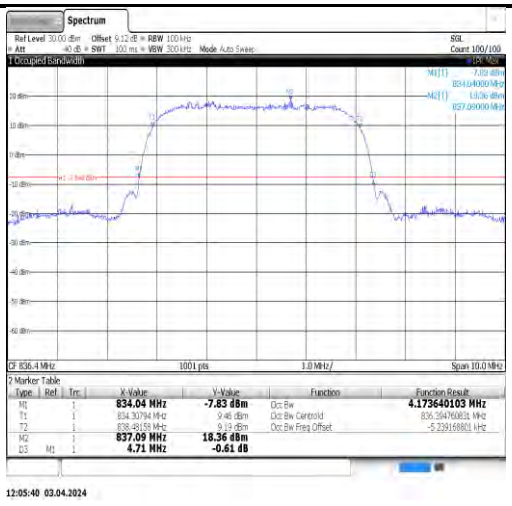
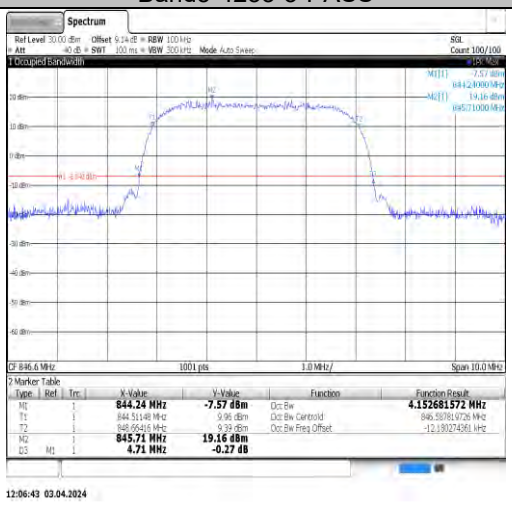


Band5-4233-3-PASS



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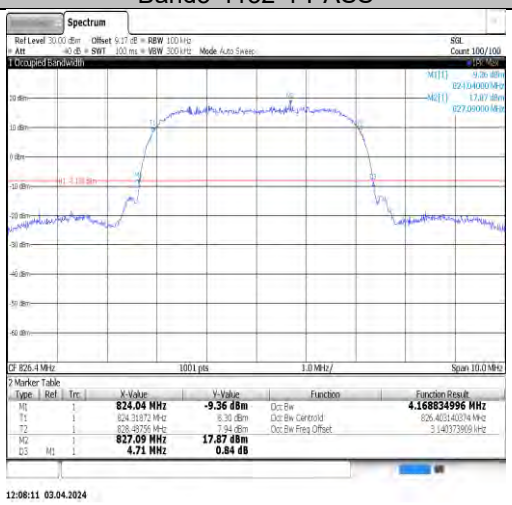

Band5-4182-4-PASS

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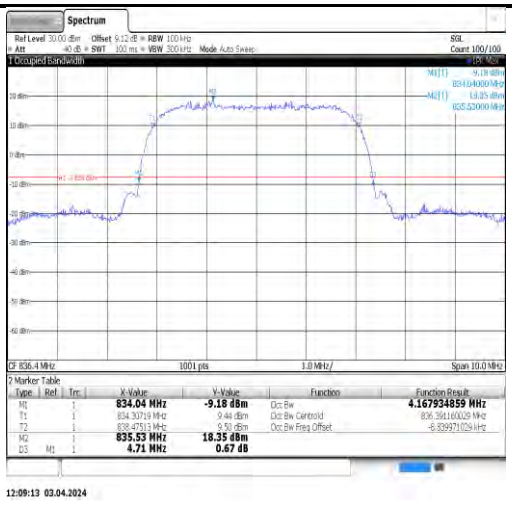

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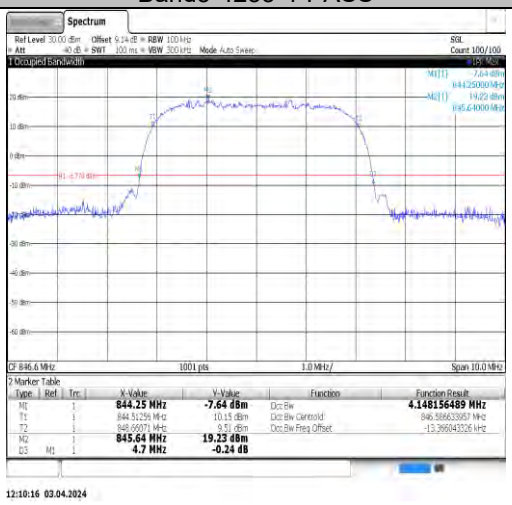

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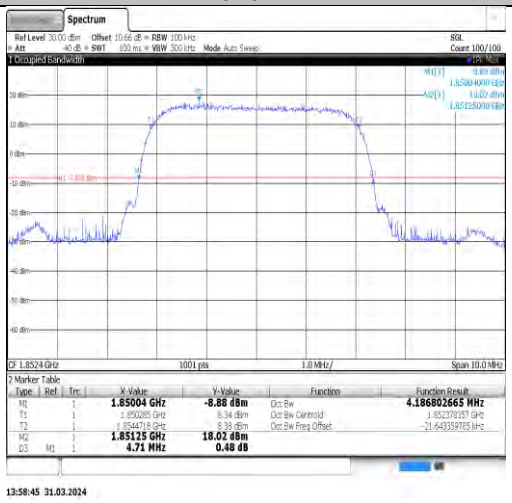
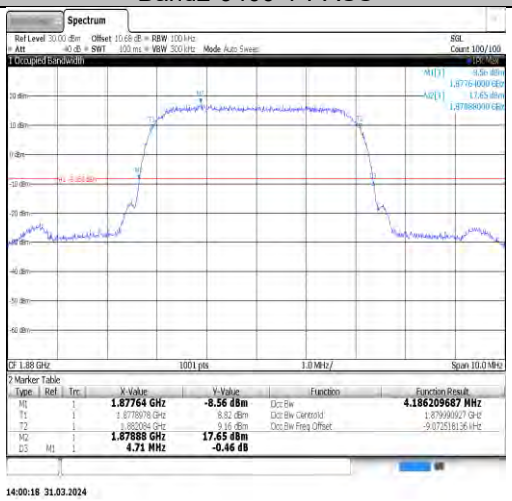
HSUPA:

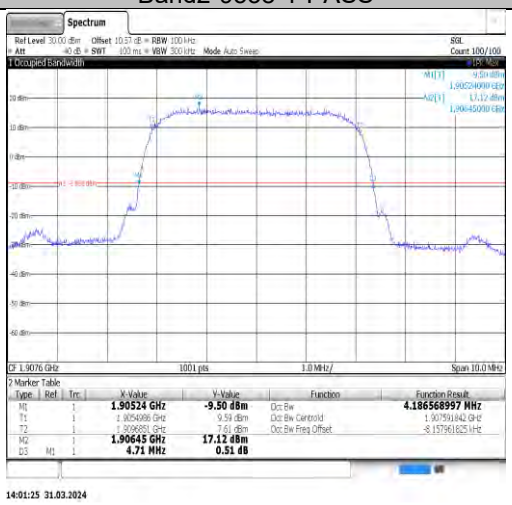
Band2-9262-1-PASS



Band2-9400-1-PASS



Band2-9538-1-PASS



Band2-9262-2-PASS

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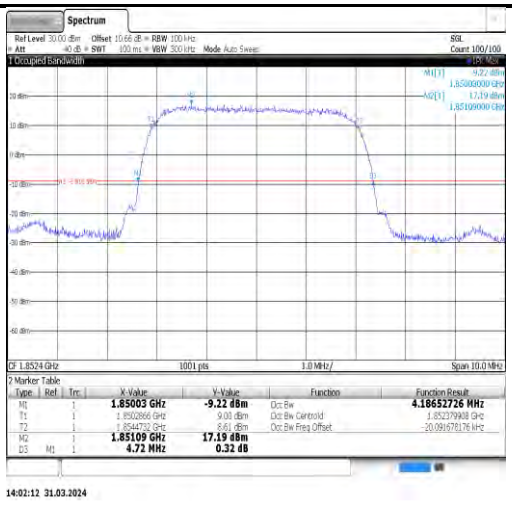
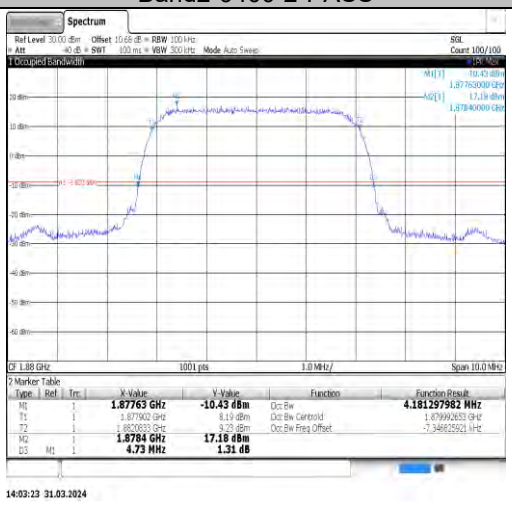


Band2-9400-2-PASS



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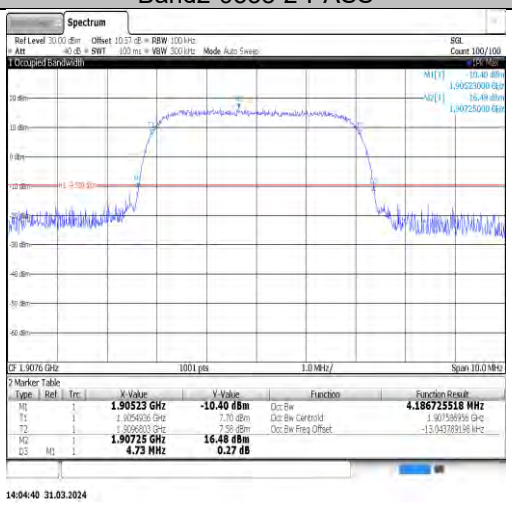

Band2-9262-3-PASS

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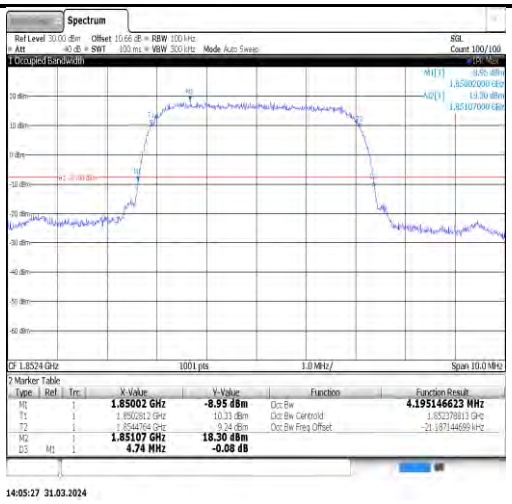
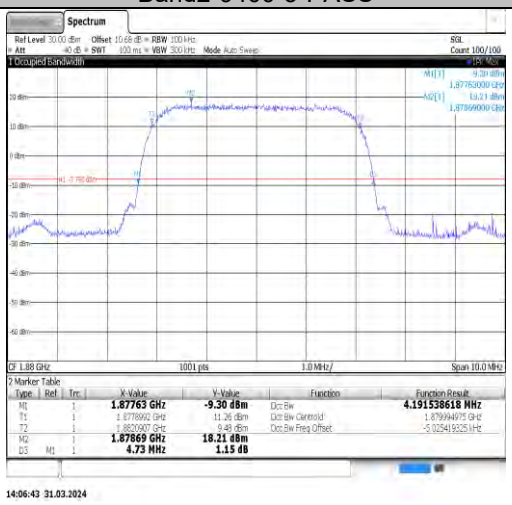
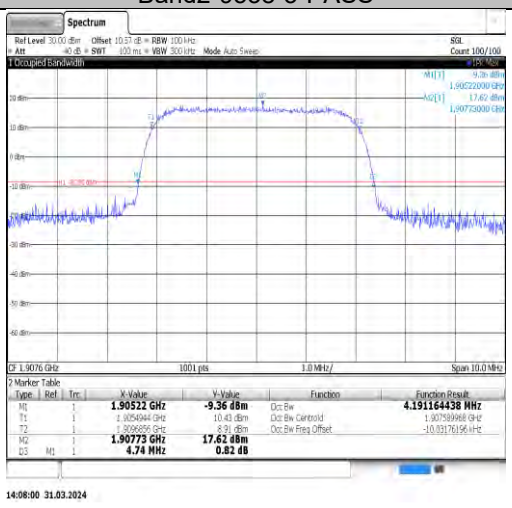


Band2-9400-3-PASS



Band2-9538-3-PASS



Band2-9262-4-PASS

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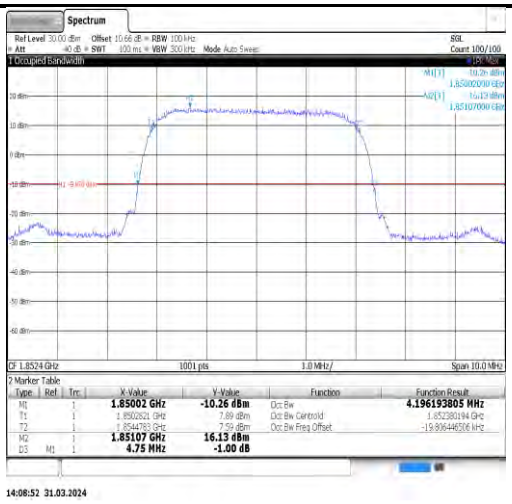
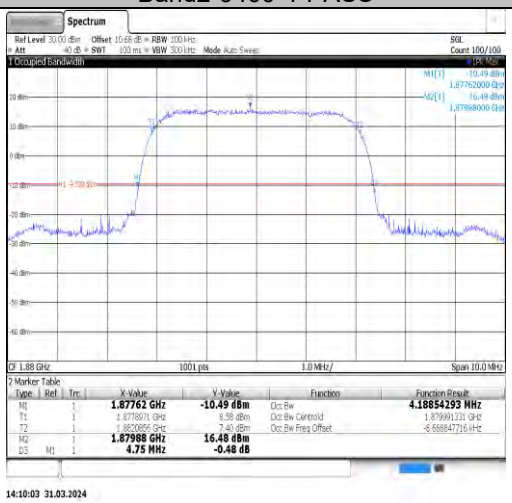
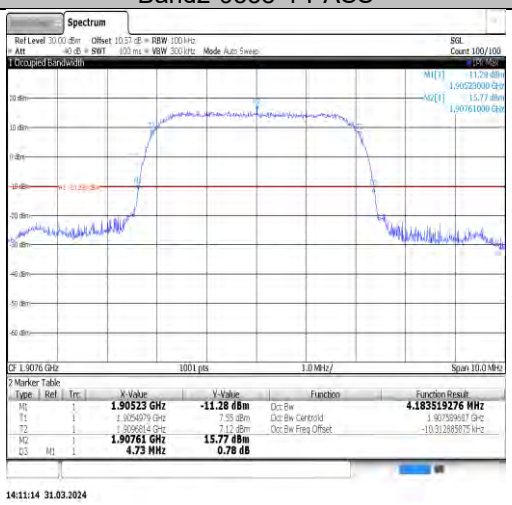


Band2-9400-4-PASS



Band2-9538-4-PASS



Band2-9262-5-PASS

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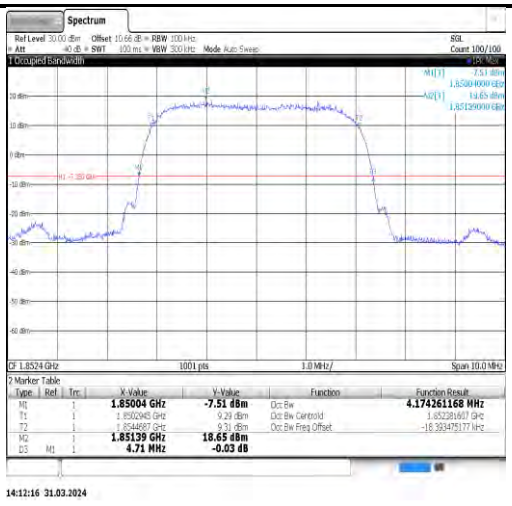
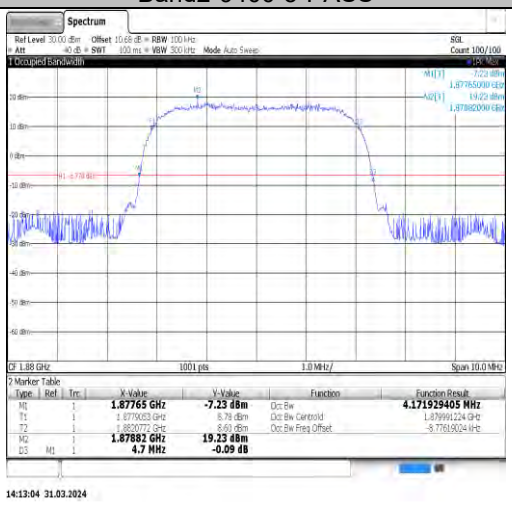


Band2-9400-5-PASS



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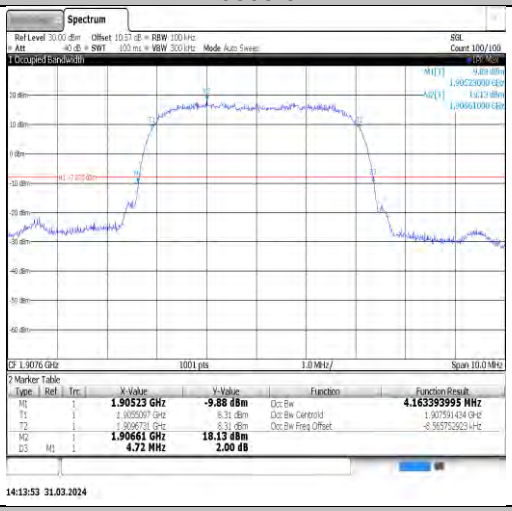

Band4-1312-1-PASS

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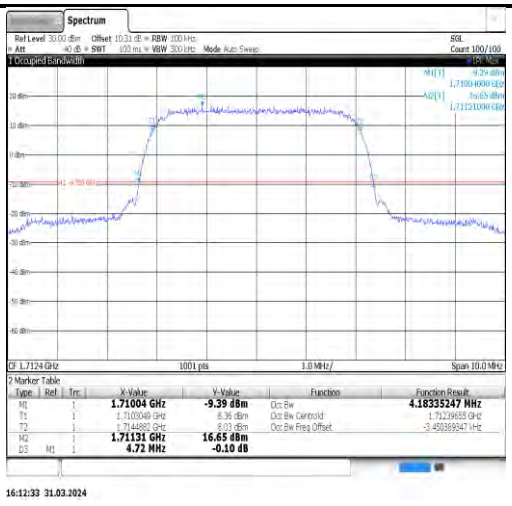
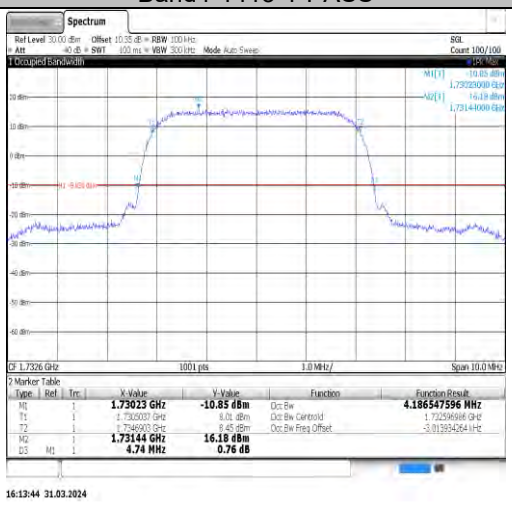


Band4-1413-1-PASS



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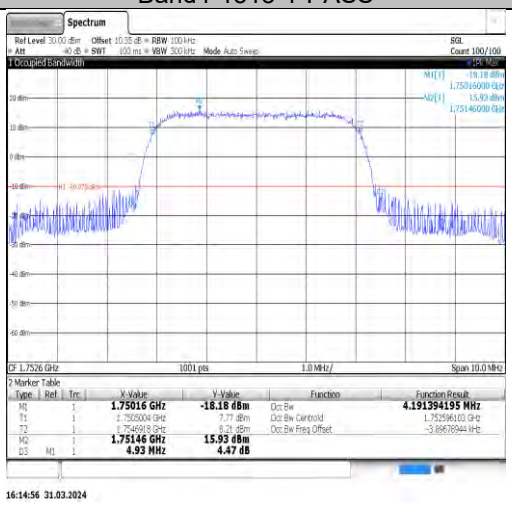

Band4-1312-2-PASS

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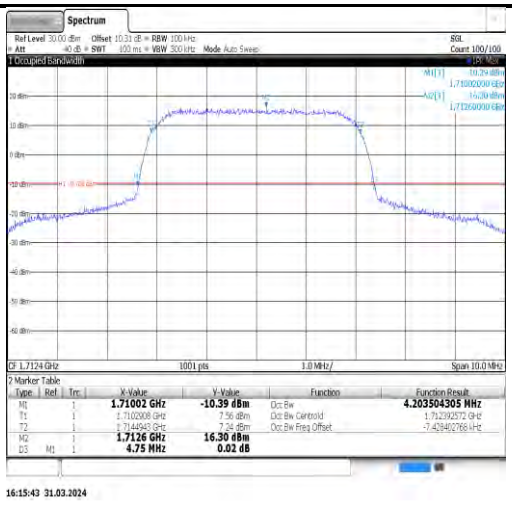

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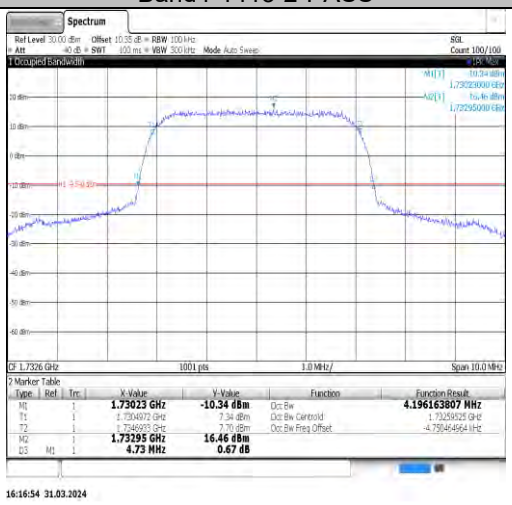

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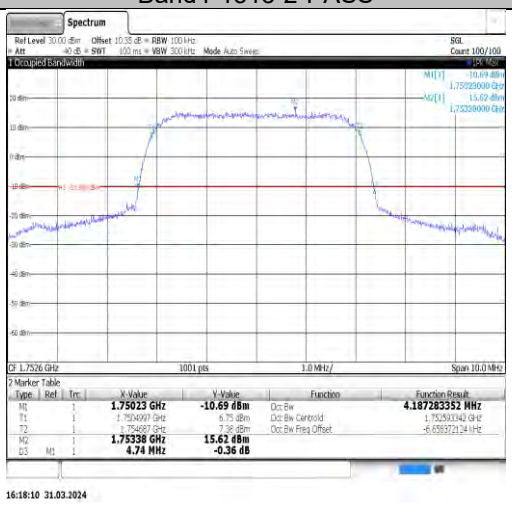

Band4-1312-3-PASS

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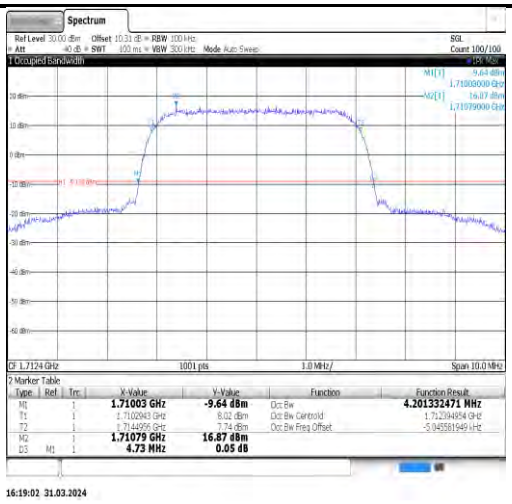

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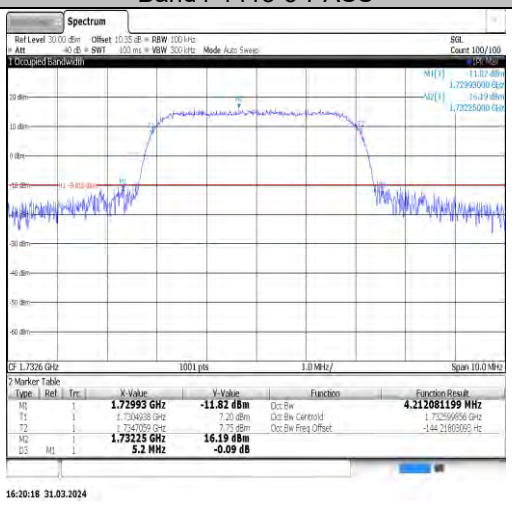

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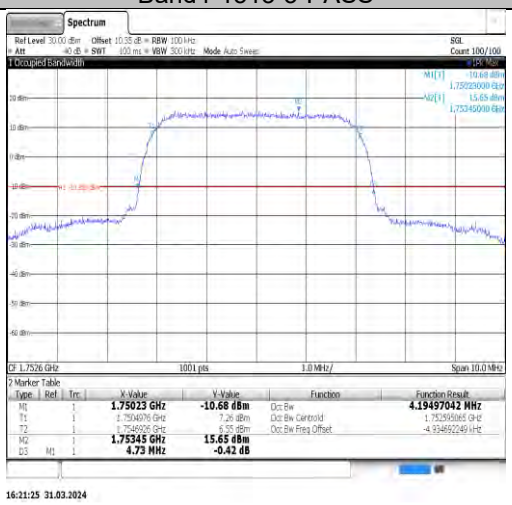

Band4-1312-4-PASS

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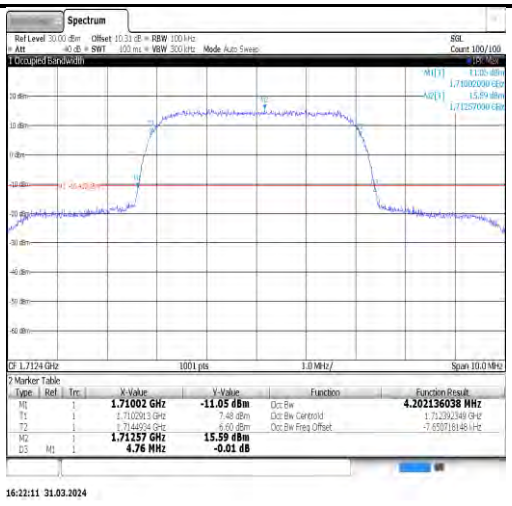

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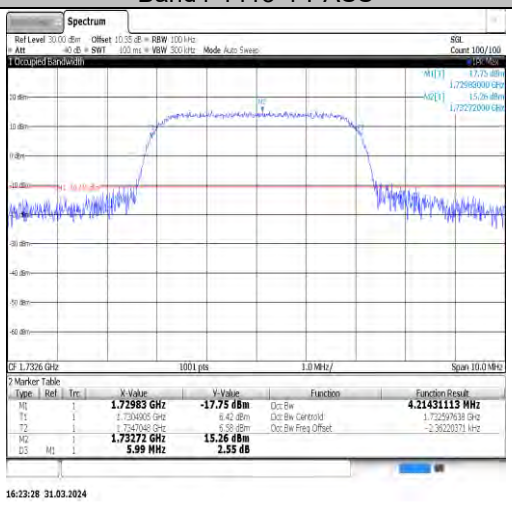

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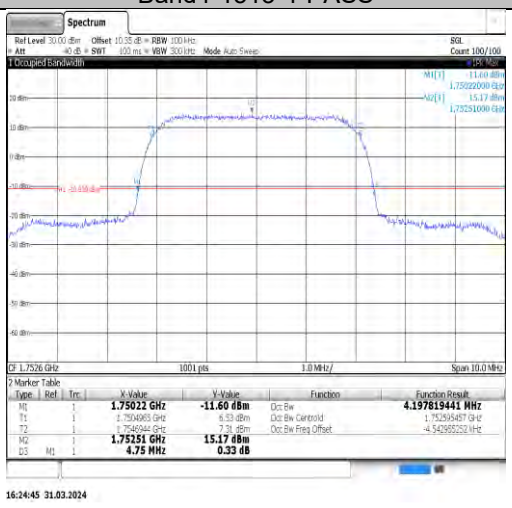

Band4-1312-5-PASS

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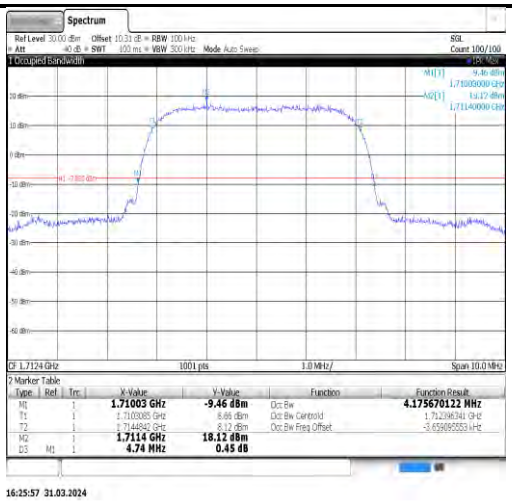

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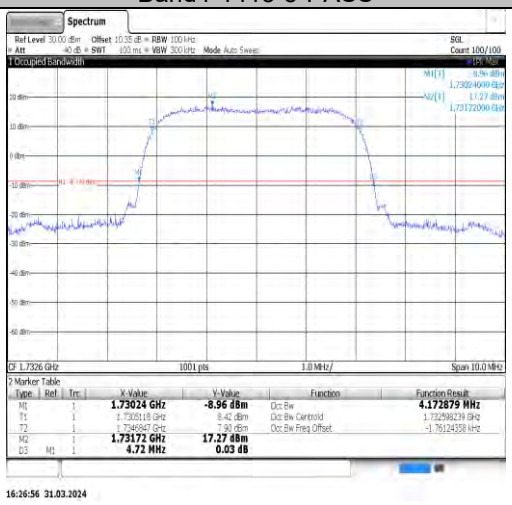

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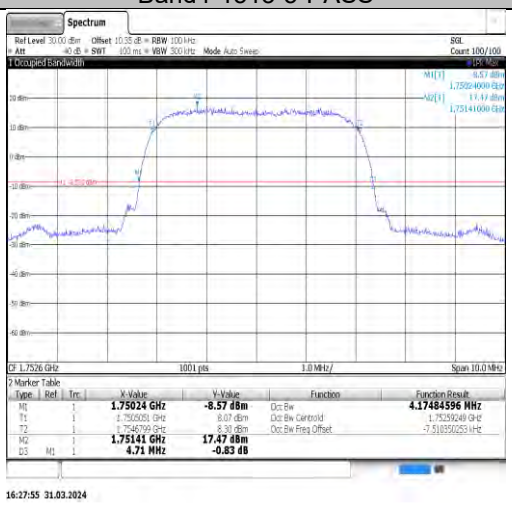

Band5-4132-1-PASS

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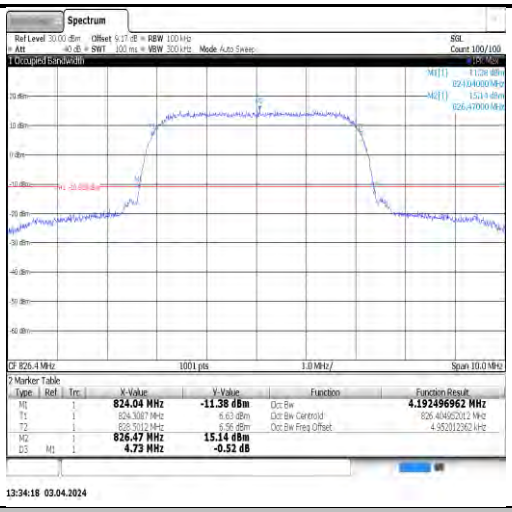

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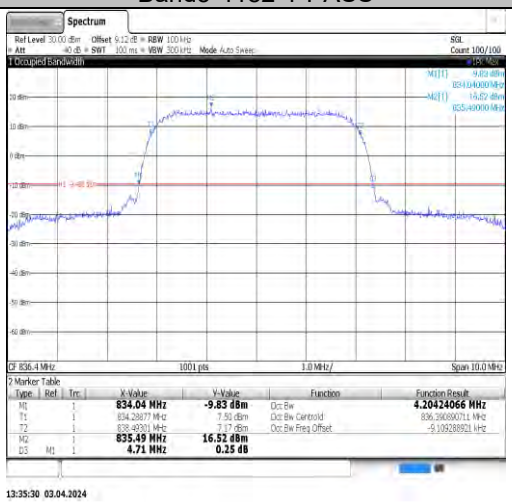

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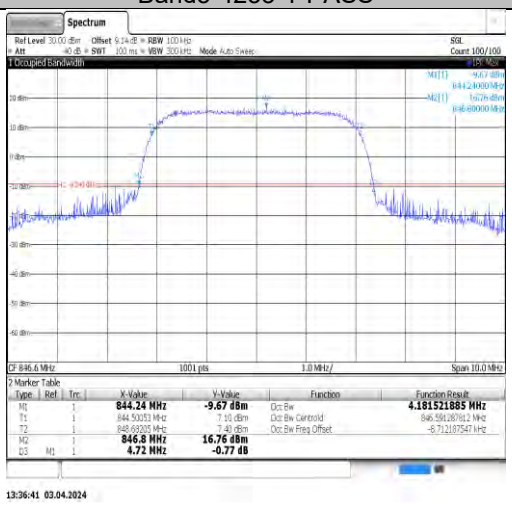

Band5-4132-2-PASS

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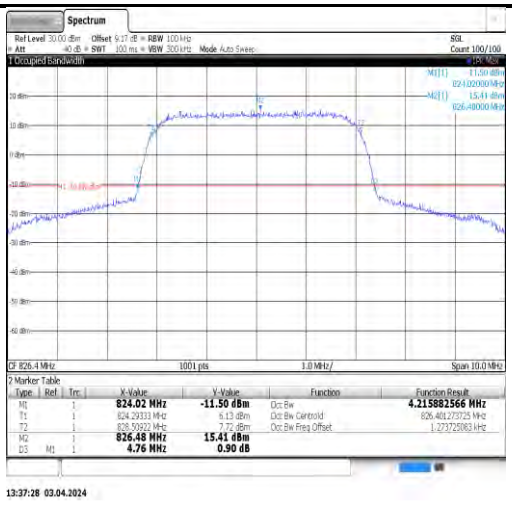

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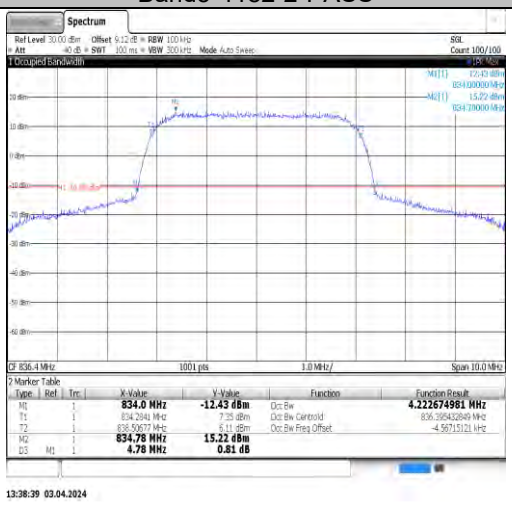

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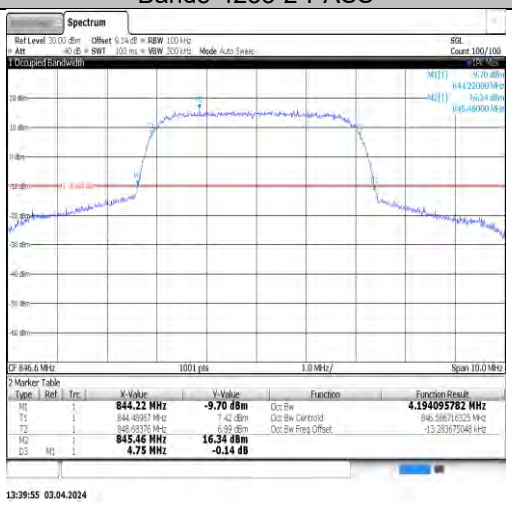

Band5-4132-3-PASS

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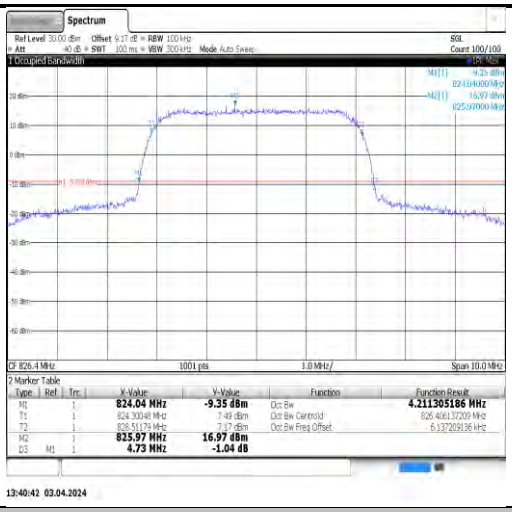
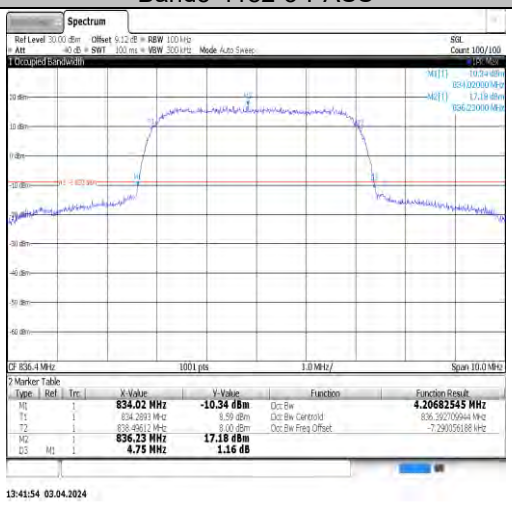
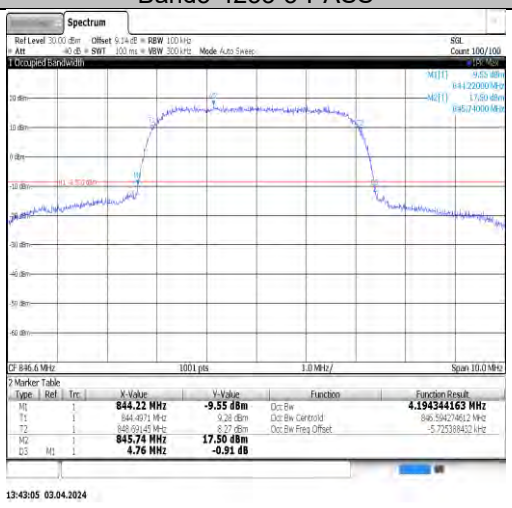


Band5-4182-3-PASS



Band5-4233-3-PASS



Band5-4132-4-PASS

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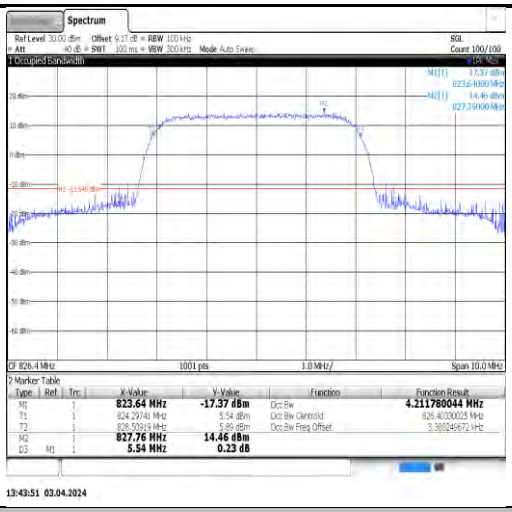
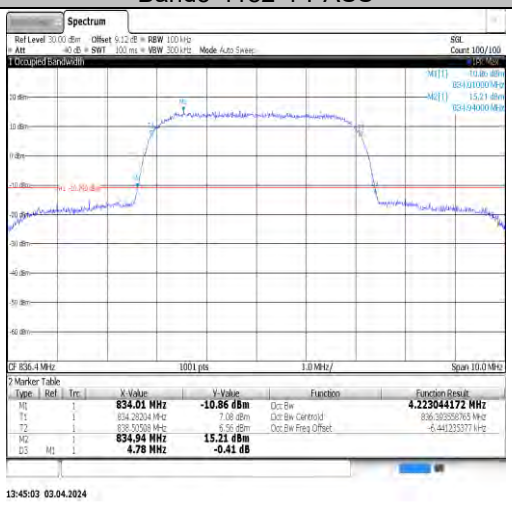
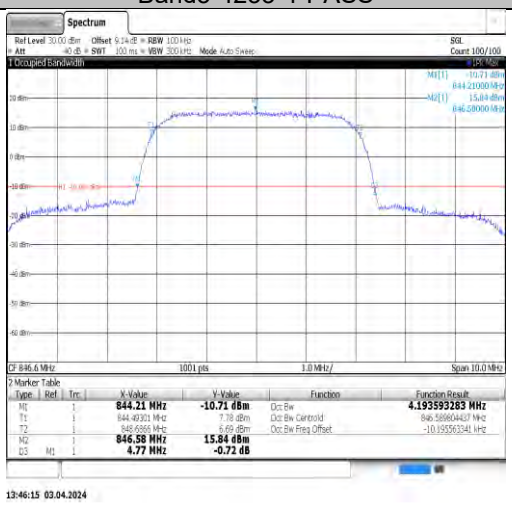


Band5-4182-4-PASS



Band5-4233-4-PASS



Band5-4132-5-PASS

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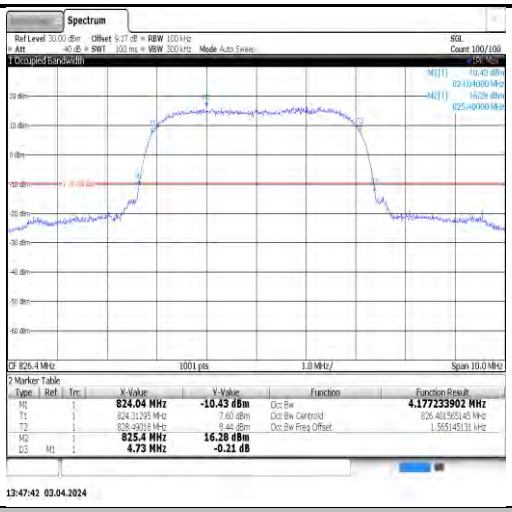
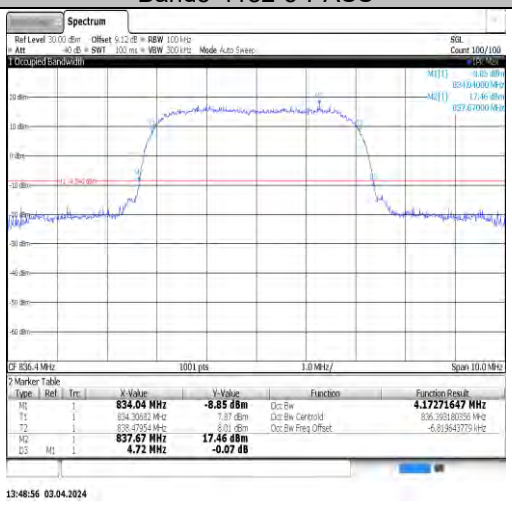
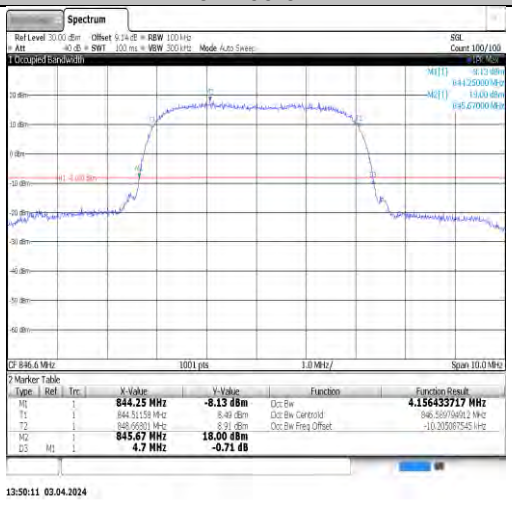


Band5-4182-5-PASS



Band5-4233-5-PASS



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8.4. AppendixD:Band Edge

8.4.1. Test Result

REL99:

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-25.53	-13	PASS
Band2	9538	1910.00	-26.05	-13	PASS
Band4	1312	1709.86	-25.02	-13	PASS
Band4	1513	1755.12	-27.81	-13	PASS
Band5	4132	823.83	-44.36	-13	PASS
Band5	4233	849.14	-25.04	-13	PASS

HSDPA:

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1	1849.88	-26.93	-13	PASS
Band2	9538	1	1910.12	-29.32	-13	PASS
Band2	9262	2	1849.88	-26.79	-13	PASS
Band2	9538	2	1910.12	-29.44	-13	PASS
Band2	9262	3	1849.89	-26.78	-13	PASS
Band2	9538	3	1910.12	-29.44	-13	PASS
Band2	9262	4	1849.87	-26.78	-13	PASS
Band2	9538	4	1910.13	-29.26	-13	PASS
Band4	1312	1	1709.89	-25.36	-13	PASS
Band4	1513	1	1755.11	-27.31	-13	PASS
Band4	1312	2	1709.87	-25.18	-13	PASS
Band4	1513	2	1755.12	-27.32	-13	PASS
Band4	1312	3	1709.88	-25.59	-13	PASS
Band4	1513	3	1755.11	-27.40	-13	PASS
Band4	1312	4	1709.89	-25.26	-13	PASS
Band4	1513	4	1755.13	-27.30	-13	PASS
Band5	4132	1	823.89	-24.89	-13	PASS
Band5	4233	1	849.13	-25.55	-13	PASS
Band5	4132	2	823.88	-24.85	-13	PASS
Band5	4233	2	849.11	-25.42	-13	PASS
Band5	4132	3	823.88	-24.55	-13	PASS
Band5	4233	3	849.10	-25.45	-13	PASS
Band5	4132	4	823.88	-24.71	-13	PASS
Band5	4233	4	849.12	-25.46	-13	PASS

HSUPA:

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1	1849.86	-28.02	-13	PASS
Band2	9538	1	1910.13	-30.06	-13	PASS
Band2	9262	2	1849.87	-28.77	-13	PASS
Band2	9538	2	1910.12	-29.50	-13	PASS
Band2	9262	3	1849.86	-27.38	-13	PASS
Band2	9538	3	1910.13	-28.99	-13	PASS
Band2	9262	4	1850.00	-30.01	-13	PASS
Band2	9538	4	1910.00	-31.80	-13	PASS
Band2	9262	5	1849.87	-27.78	-13	PASS
Band2	9538	5	1910.11	-30.22	-13	PASS
Band4	1312	1	1709.88	-26.99	-13	PASS
Band4	1513	1	1755.14	-28.94	-13	PASS
Band4	1312	2	1710.00	-26.56	-13	PASS
Band4	1513	2	1755.00	-28.96	-13	PASS

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Band4	1312	3	1709.86	-26.30	-13	PASS
Band4	1513	3	1755.12	-28.58	-13	PASS
Band4	1312	4	1709.13	-56.03	-13	PASS
Band4	1513	4	1755.89	-55.90	-13	PASS
Band4	1312	5	1709.86	-26.82	-13	PASS
Band4	1513	5	1755.12	-29.02	-13	PASS
Band5	4132	1	823.90	-26.71	-13	PASS
Band5	4233	1	849.13	-26.96	-13	PASS
Band5	4132	2	824.00	-26.26	-13	PASS
Band5	4233	2	849.00	-26.45	-13	PASS
Band5	4132	3	823.91	-26.34	-13	PASS
Band5	4233	3	849.12	-26.86	-13	PASS
Band5	4132	4	824.00	-26.80	-13	PASS
Band5	4233	4	849.00	-27.13	-13	PASS
Band5	4132	5	823.89	-26.63	-13	PASS
Band5	4233	5	849.11	-27.42	-13	PASS

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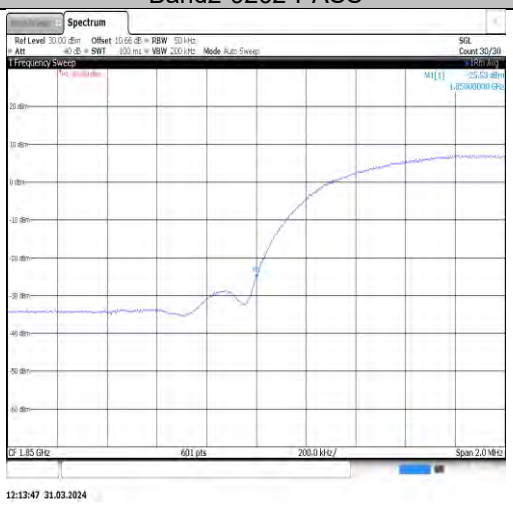
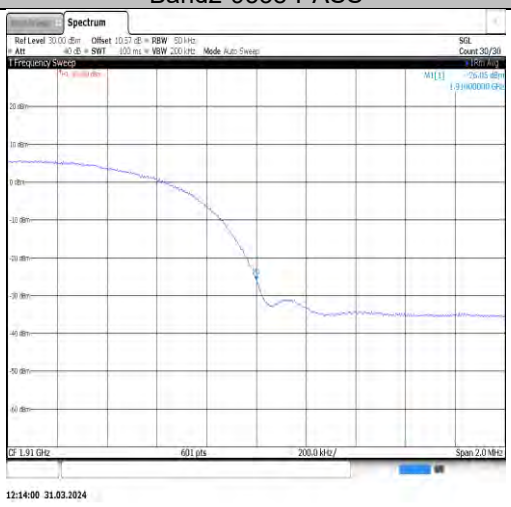
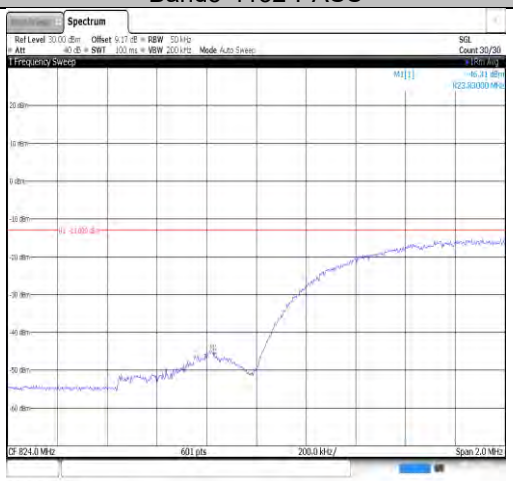
8.4.2. Test Graphs

REL99:

Band2-9262-PASS	Band2-9538-PASS
	
12:13:47 31.03.2024	12:14:00 31.03.2024
Band4-1312-PASS	**Band4-1513-PASS**
14:47:01 31.03.2024	14:47:13 31.03.2024
Band5-4132-PASS	**Band5-4233-PASS**
	
13:03:30 09.04.2024	13:03:43 09.04.2024

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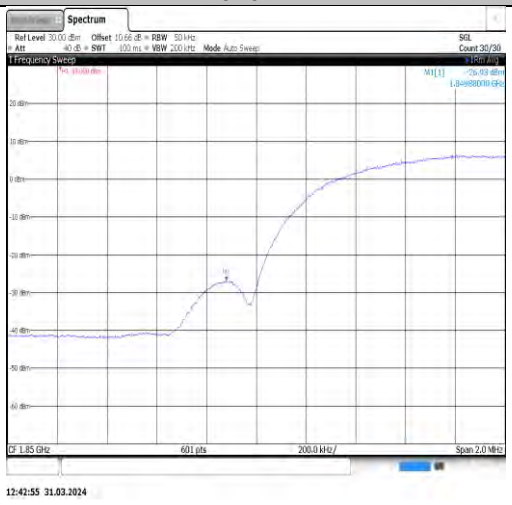
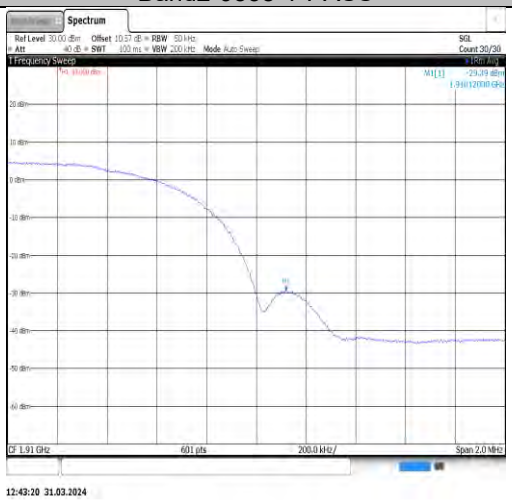
HSDPA:

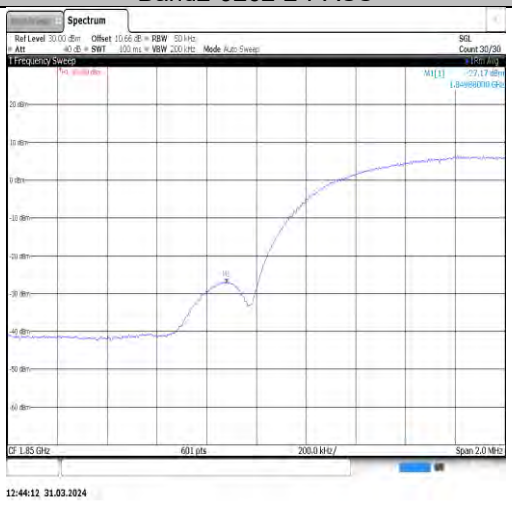
Band2-9262-1-PASS



Band2-9538-1-PASS



Band2-9262-2-PASS



Band2-9538-2-PASS

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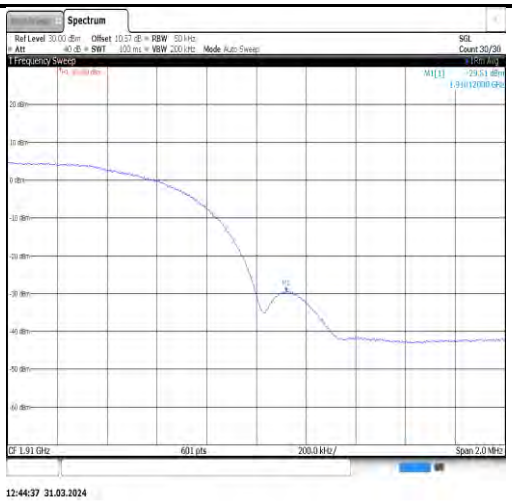
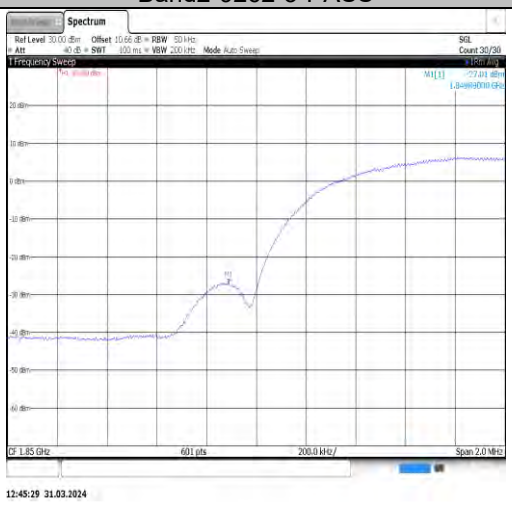
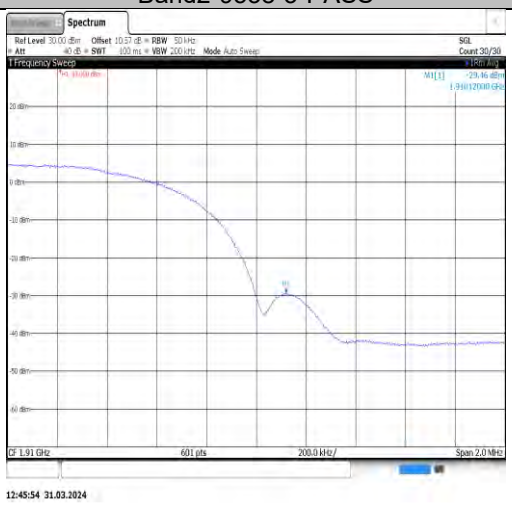


Band2-9262-3-PASS



Band2-9538-3-PASS



Band2-9262-4-PASS

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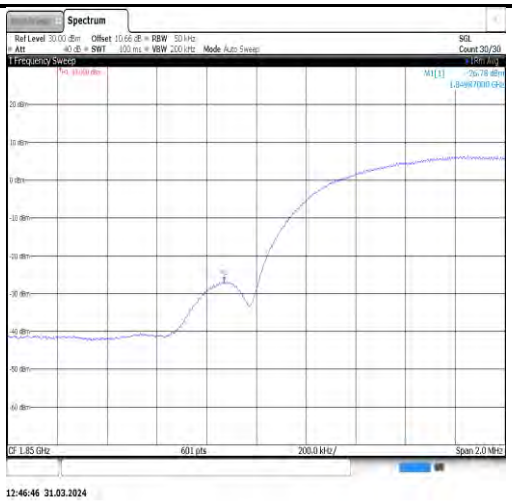
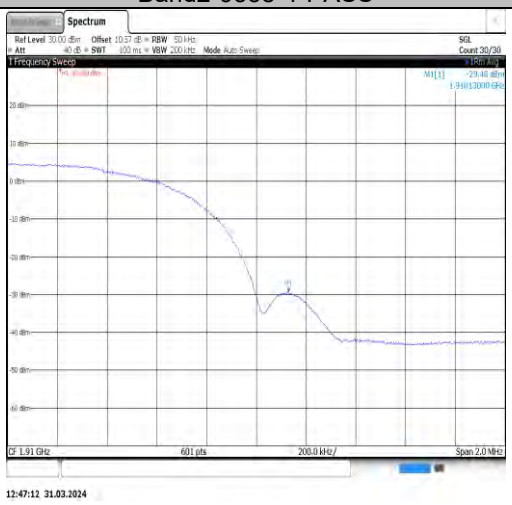
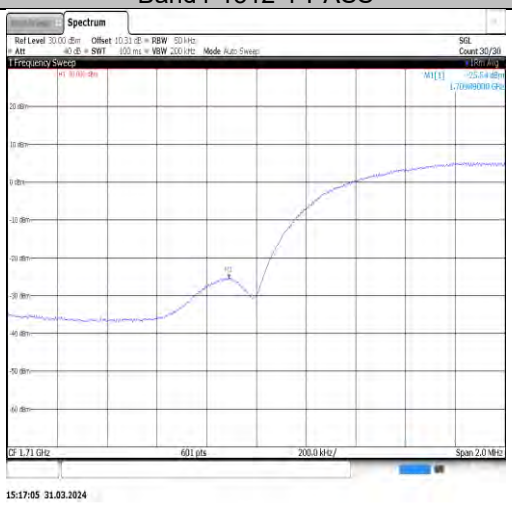


Band2-9538-4-PASS



Band4-1312-1-PASS



Band4-1513-1-PASS

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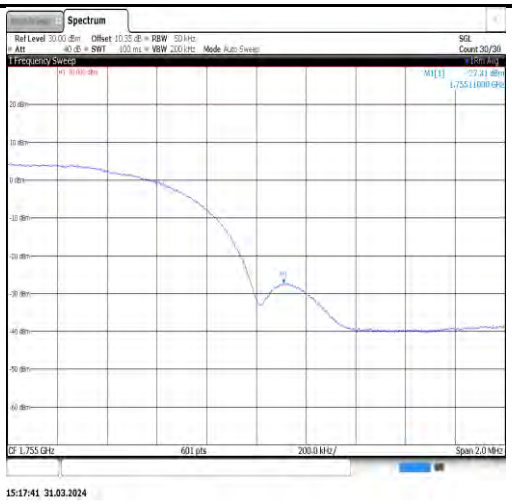
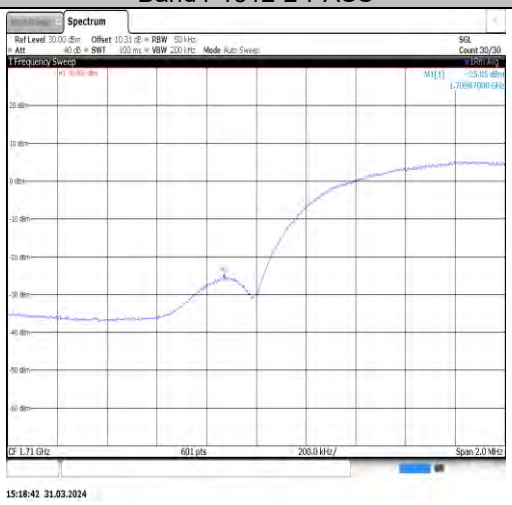
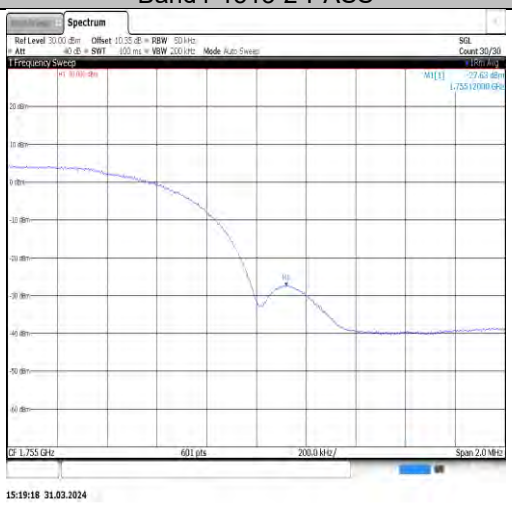


Band4-1312-2-PASS



Band4-1513-2-PASS



Band4-1312-3-PASS

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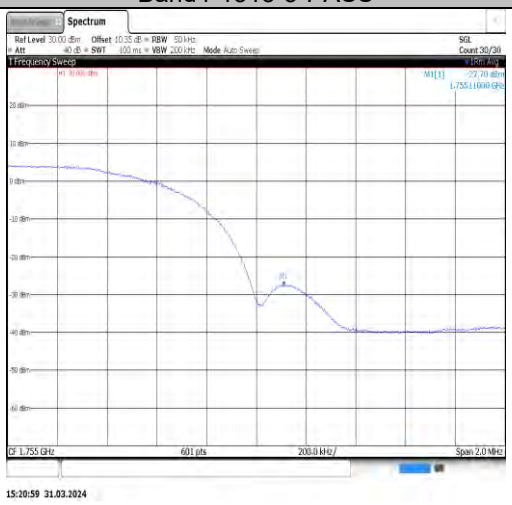
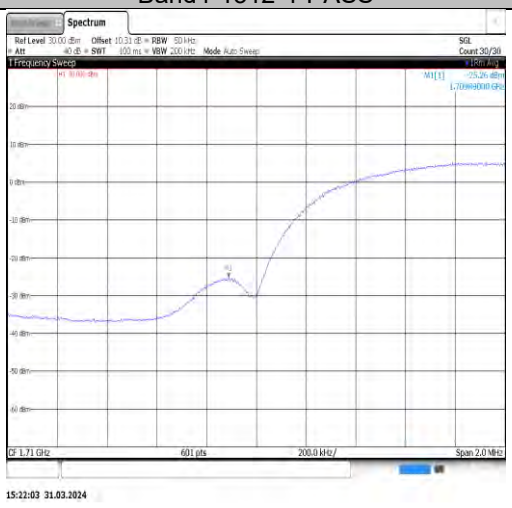
Band4-1513-3-PASS



Band4-1312-4-PASS



Band4-1513-4-PASS

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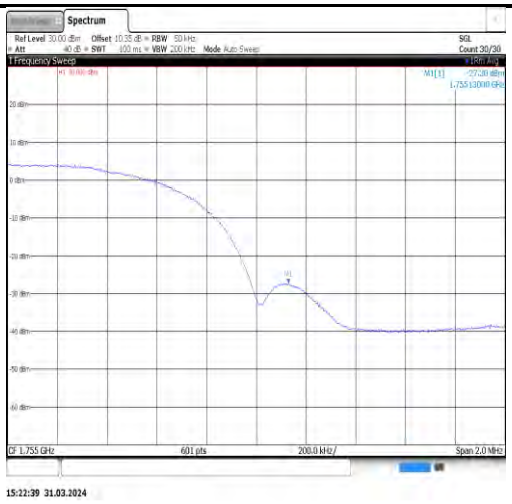
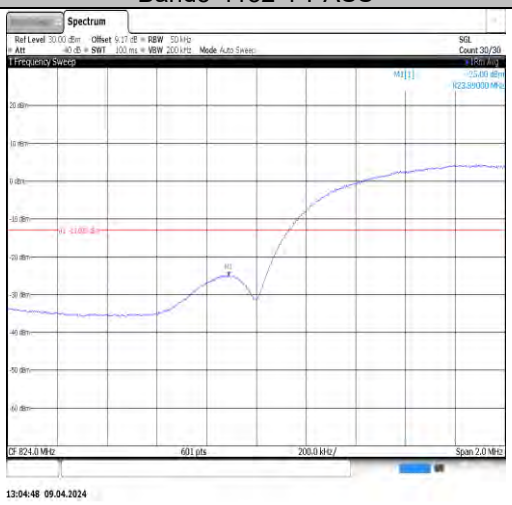
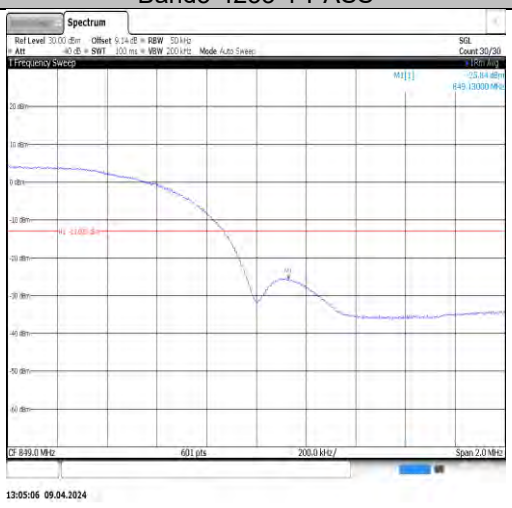


Band5-4132-1-PASS



Band5-4233-1-PASS



Band5-4132-2-PASS

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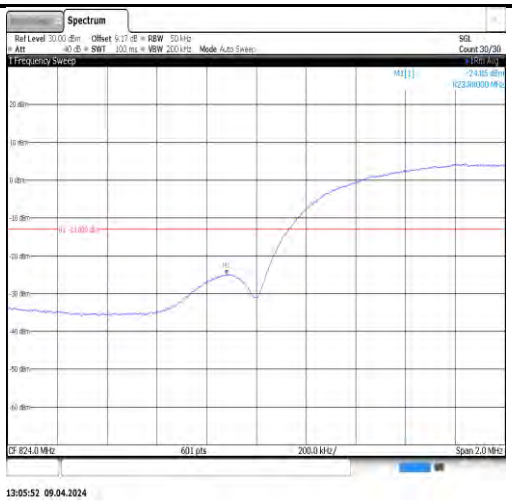
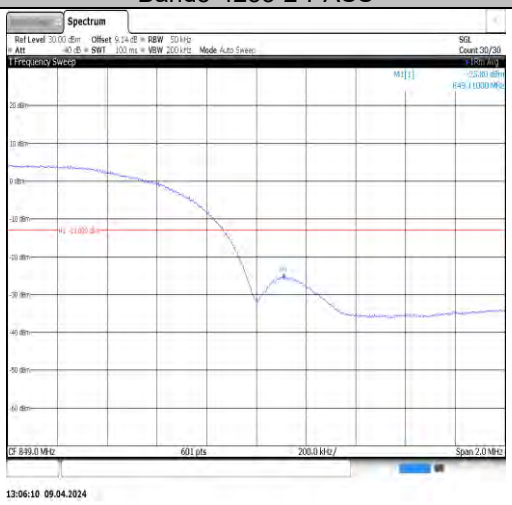
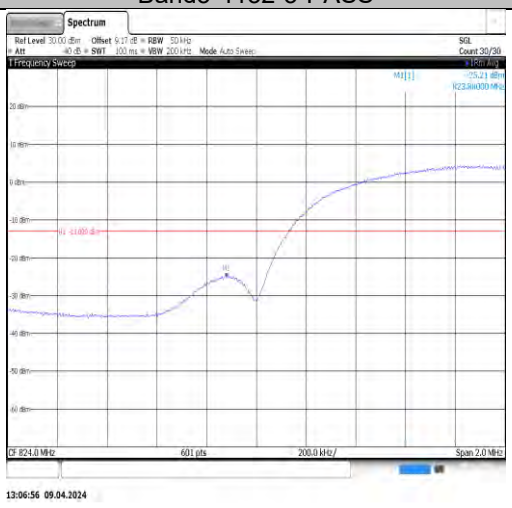


Band5-4233-2-PASS



Band5-4132-3-PASS



Band5-4233-3-PASS

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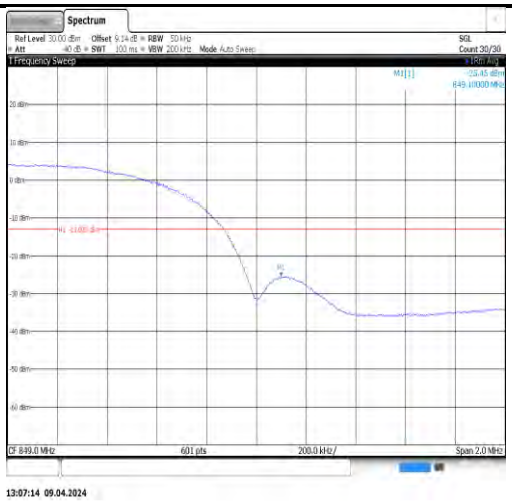
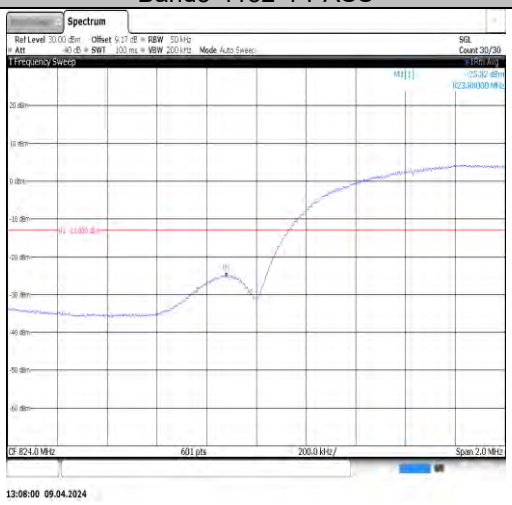
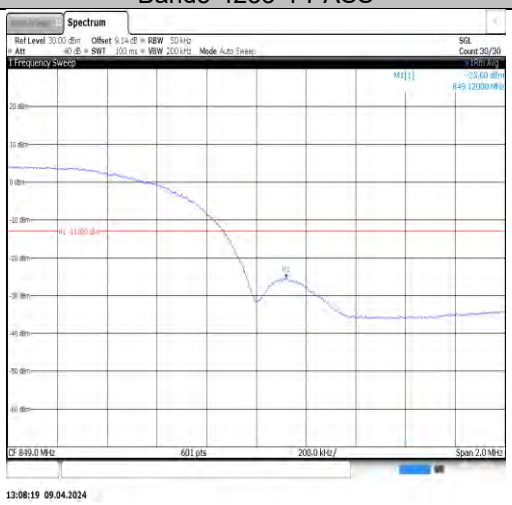


Band5-4132-4-PASS



Band5-4233-4-PASS



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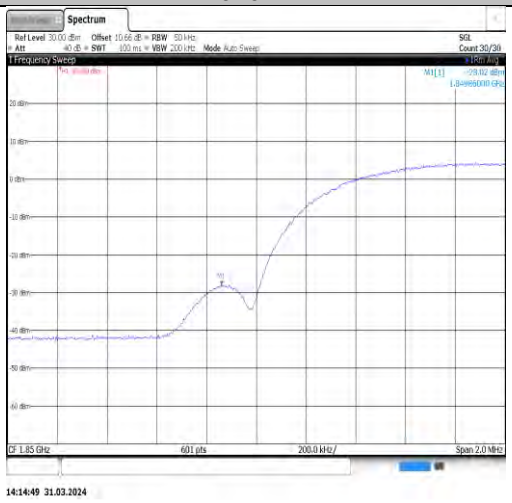
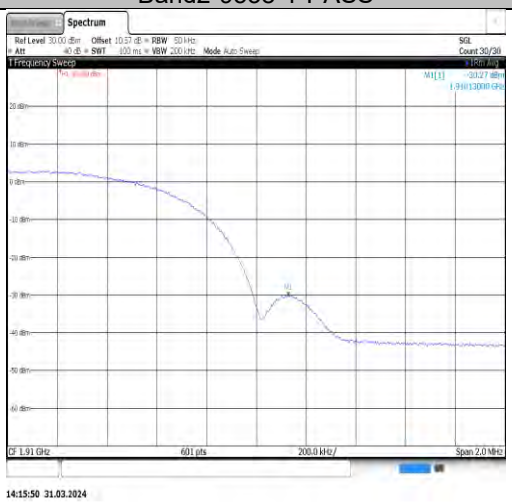
HSUPA:

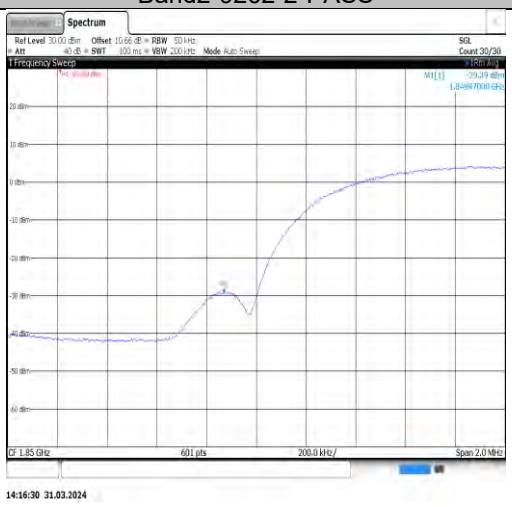
Band2-9262-1-PASS



Band2-9538-1-PASS



Band2-9262-2-PASS



Band2-9538-2-PASS

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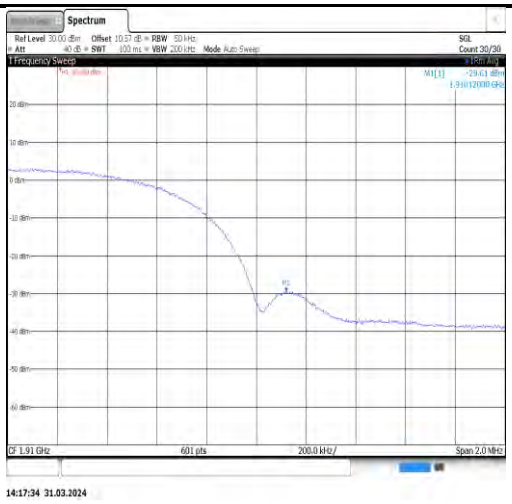
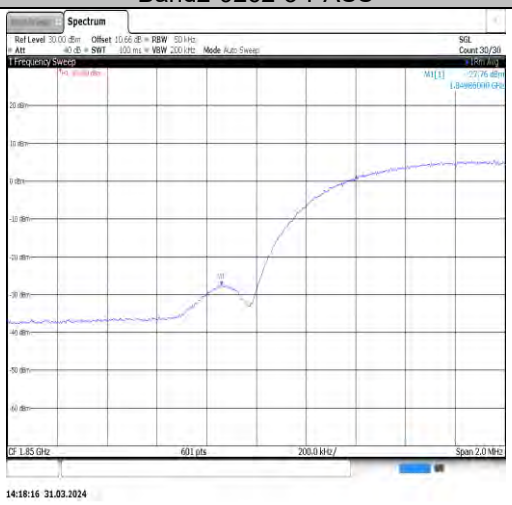
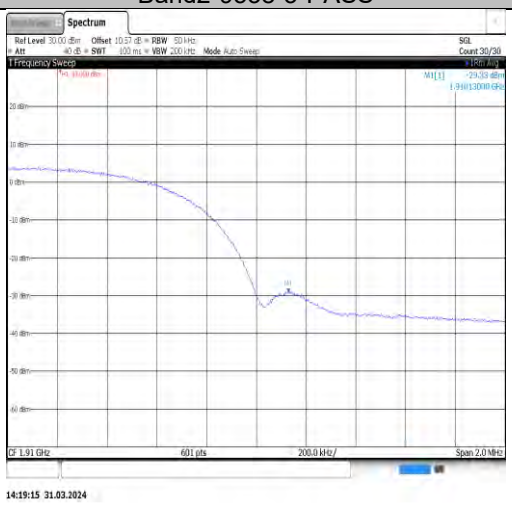


Band2-9262-3-PASS



Band2-9538-3-PASS



Band2-9262-4-PASS

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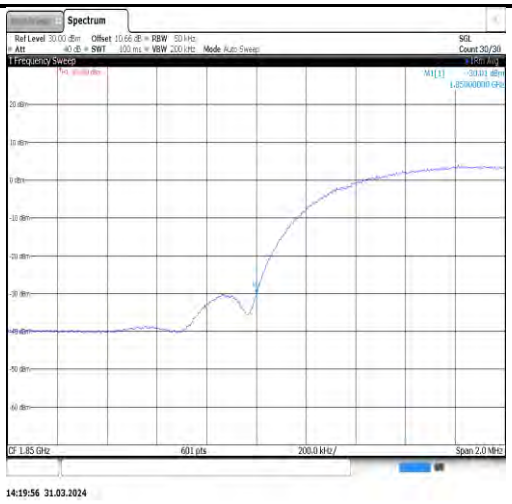
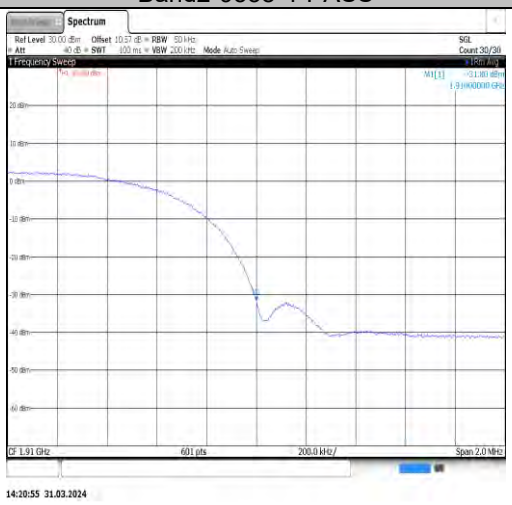
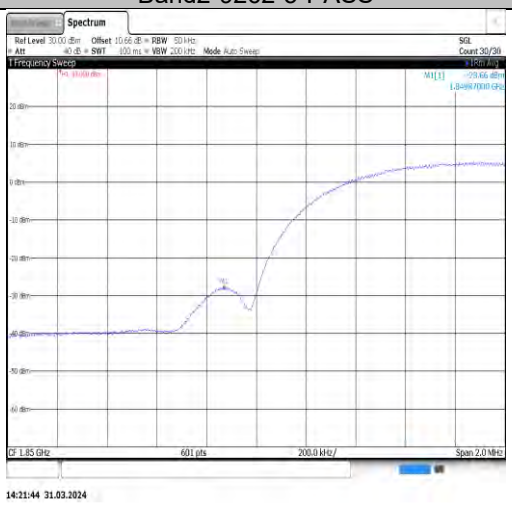


Band2-9538-4-PASS



Band2-9262-5-PASS



Band2-9538-5-PASS

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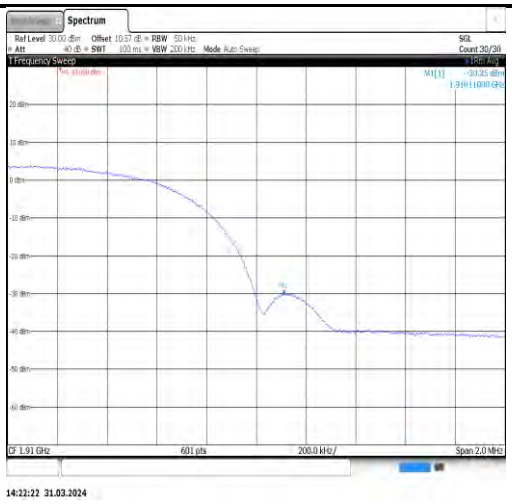
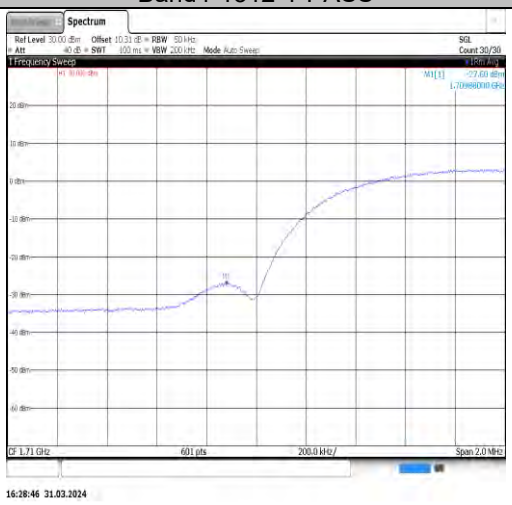
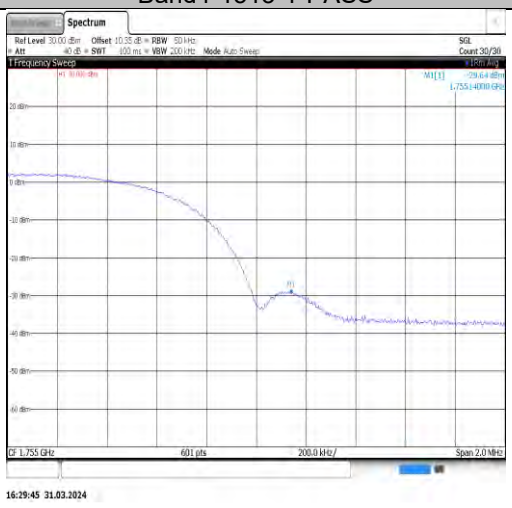


Band4-1312-1-PASS



Band4-1513-1-PASS



Band4-1312-2-PASS

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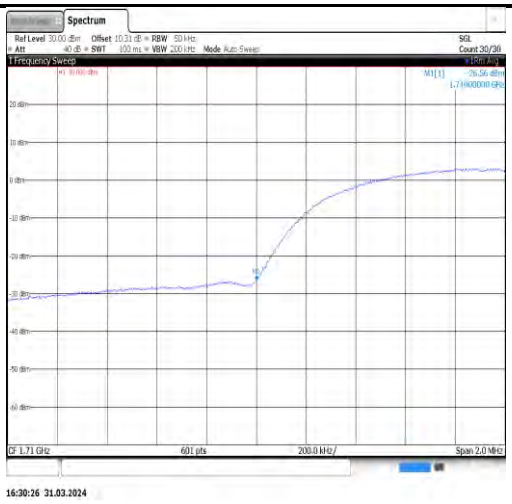
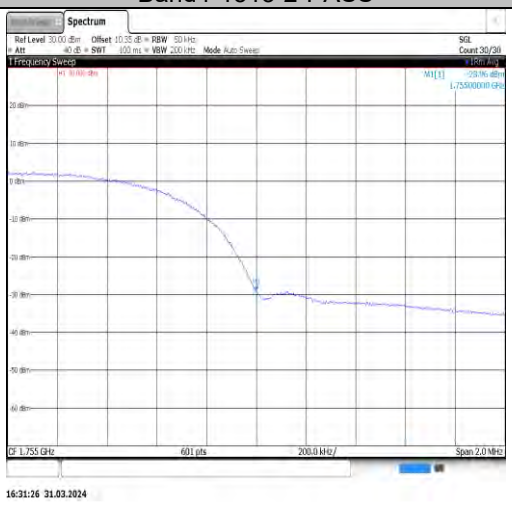
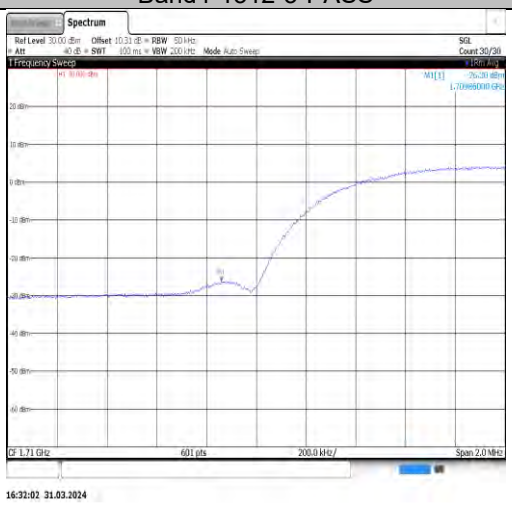


Band4-1513-2-PASS



Band4-1312-3-PASS



Band4-1513-3-PASS

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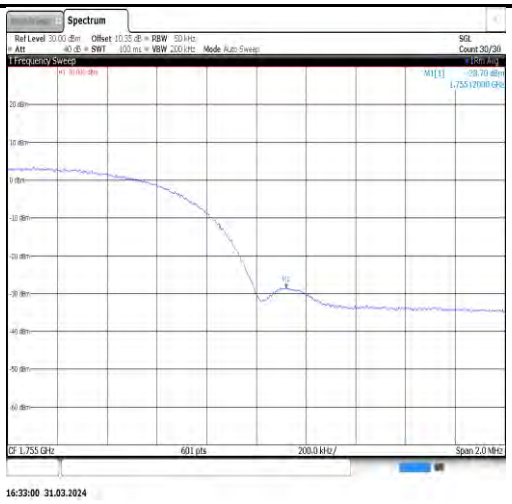
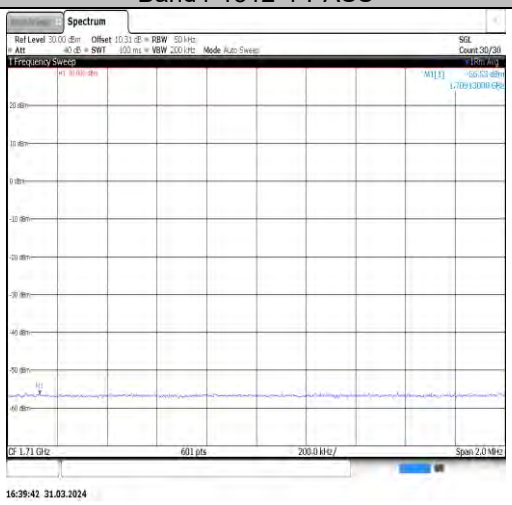
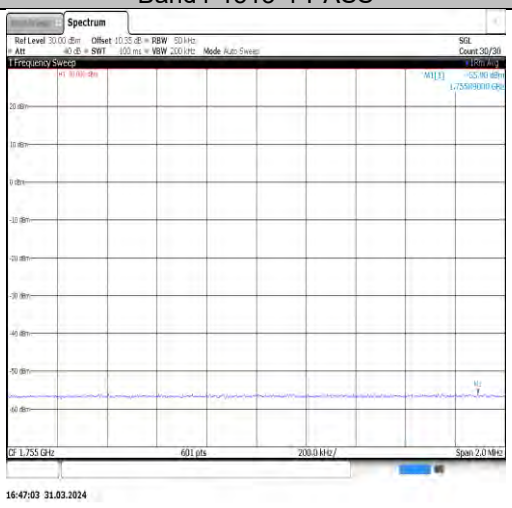


Band4-1312-4-PASS



Band4-1513-4-PASS



Band4-1312-5-PASS

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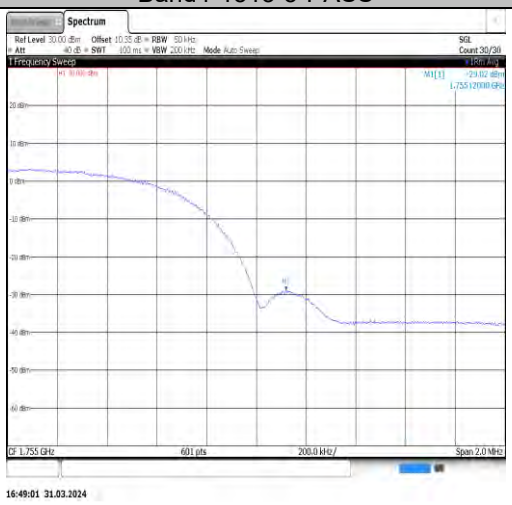
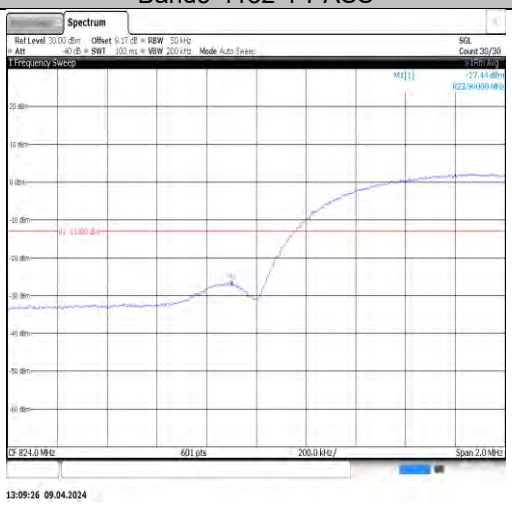
Band4-1513-5-PASS



Band5-4132-1-PASS



Band5-4233-1-PASS

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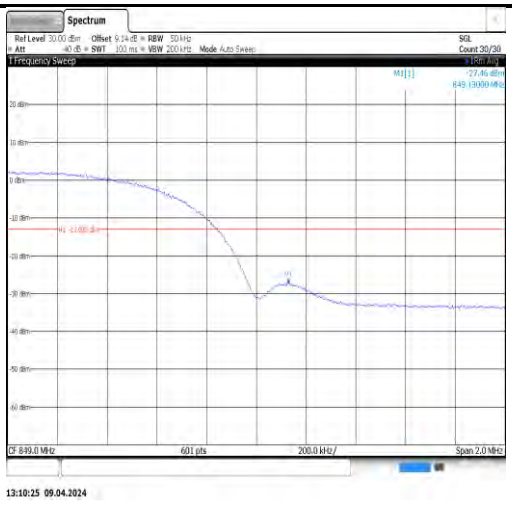

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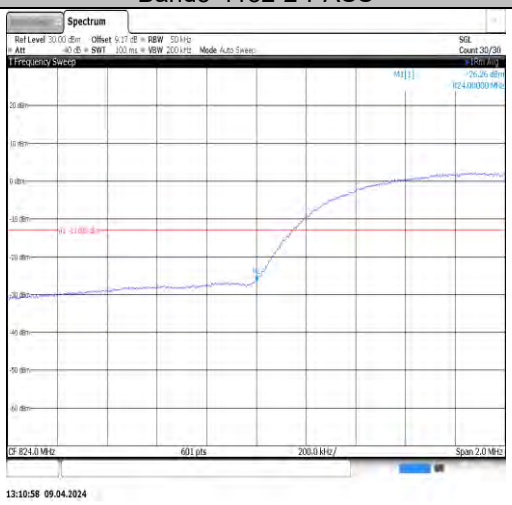

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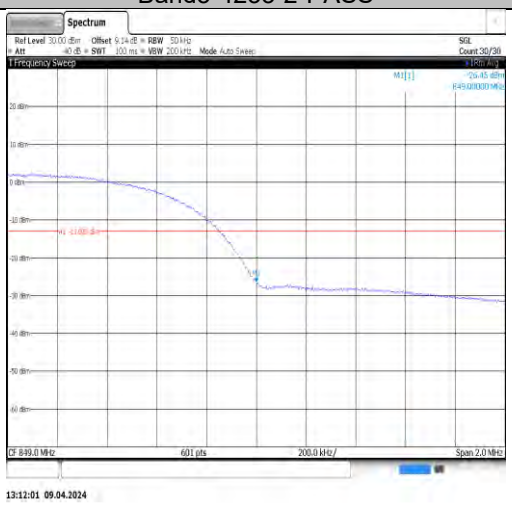

Band5-4132-3-PASS

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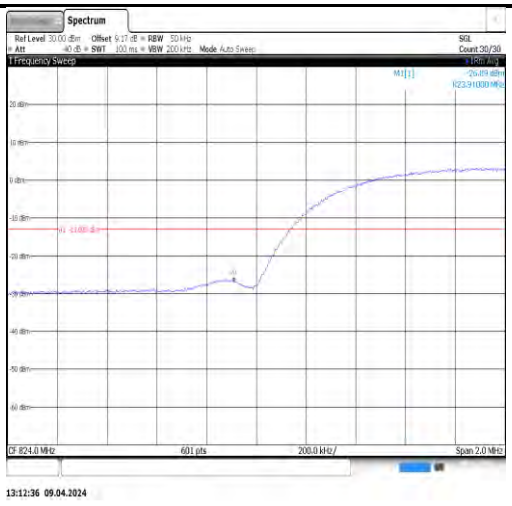
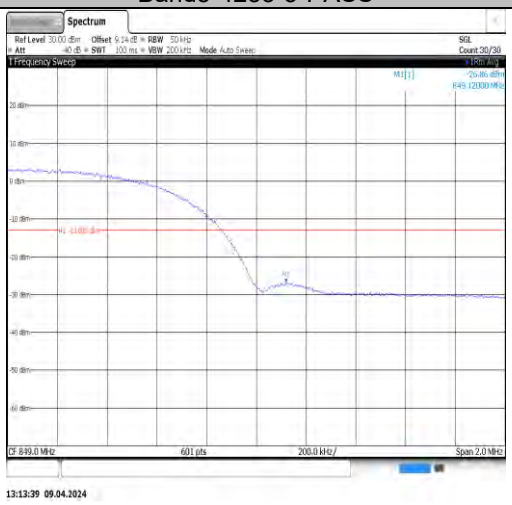
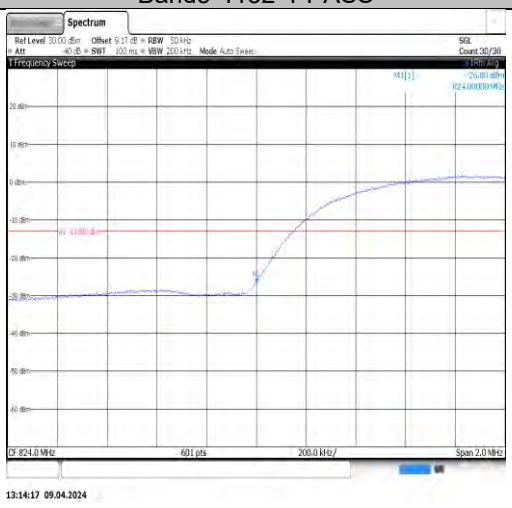


Band5-4233-3-PASS



Band5-4132-4-PASS



Band5-4233-4-PASS

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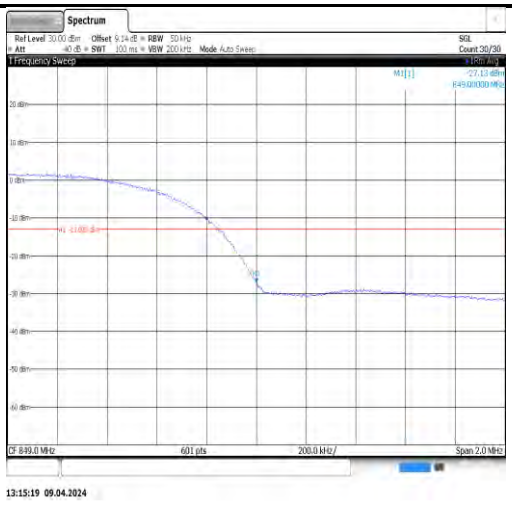
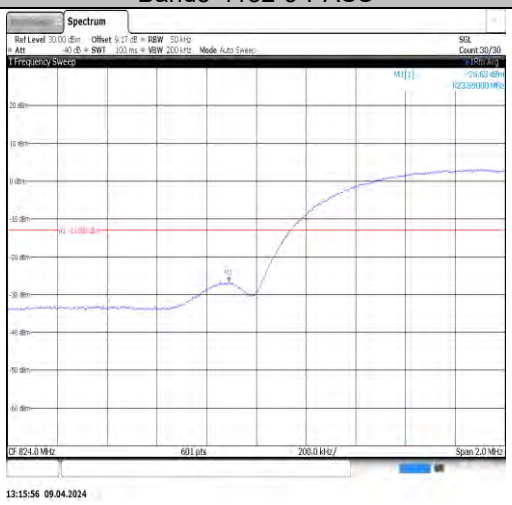
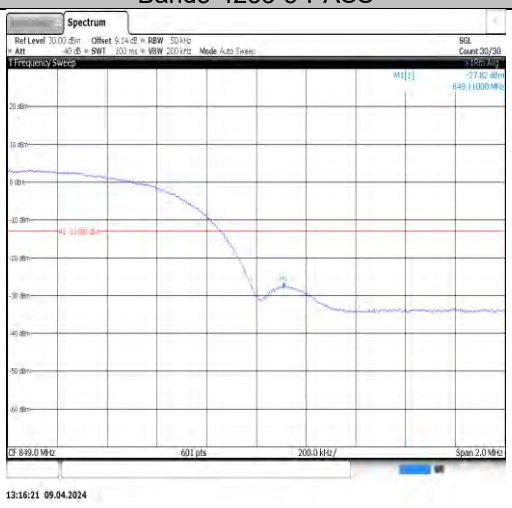


Band5-4132-5-PASS



Band5-4233-5-PASS



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8.5. AppendixE:Conducted SpuriousEmission

8.5.1. Test Result

Rel99:

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.02	-74.24	-43	PASS
Band2	9262	0.15~30MHz	12.69	-70.19	-23	PASS
Band2	9262	30~1000MHz	547.96	-50.9	-13	PASS
Band2	9262	1000~20000MHz	7015.88	-42.52	-13	PASS
Band2	9400	0.009~0.15MHz	0.03	-73	-43	PASS
Band2	9400	0.15~30MHz	0.34	-70.58	-23	PASS
Band2	9400	30~1000MHz	554.75	-50.74	-13	PASS
Band2	9400	1000~20000MHz	7967.78	-42.43	-13	PASS
Band2	9538	0.009~0.15MHz	0.04	-72.04	-43	PASS
Band2	9538	0.15~30MHz	0.28	-70.44	-23	PASS
Band2	9538	30~1000MHz	555.72	-50.83	-13	PASS
Band2	9538	1000~20000MHz	7104.23	-42.46	-13	PASS
Band4	1312	0.009~0.15MHz	0.02	-72.54	-43	PASS
Band4	1312	0.15~30MHz	25.81	-70.47	-23	PASS
Band4	1312	30~1000MHz	555.23	-50.77	-13	PASS
Band4	1312	1000~20000MHz	7957.33	-42.6	-13	PASS
Band4	1413	0.009~0.15MHz	0.04	-71.04	-43	PASS
Band4	1413	0.15~30MHz	12.63	-69.63	-23	PASS
Band4	1413	30~1000MHz	555.72	-50.61	-13	PASS
Band4	1413	1000~20000MHz	7936.43	-42.47	-13	PASS
Band4	1513	0.009~0.15MHz	0.04	-73.16	-43	PASS
Band4	1513	0.15~30MHz	9.41	-70.57	-23	PASS
Band4	1513	30~1000MHz	555.23	-50.78	-13	PASS
Band4	1513	1000~20000MHz	7939.28	-42.51	-13	PASS
Band5	4132	0.009~0.15MHz	0.03	-73.33	-33	PASS
Band5	4132	0.15~30MHz	0.28	-70.11	-13	PASS
Band5	4132	30~1000MHz	962.66	-59.42	-13	PASS
Band5	4132	1000~10000MHz	7015.07	-42.9	-13	PASS
Band5	4182	0.009~0.15MHz	0.04	-69.88	-33	PASS
Band5	4182	0.15~30MHz	0.17	-70.52	-13	PASS
Band5	4182	30~1000MHz	547.98	-59.14	-13	PASS
Band5	4182	1000~10000MHz	7919.98	-42.82	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-72.76	-33	PASS
Band5	4233	0.15~30MHz	0.31	-70.38	-13	PASS
Band5	4233	30~1000MHz	554.77	-59.49	-13	PASS
Band5	4233	1000~10000MHz	7989.28	-42.86	-13	PASS

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HSDPA:

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	4	0.009~0.15MHz	0.03	-72.45	-23	PASS
Band2	9262	4	0.15~30MHz	0.28	-69.3	-13	PASS
Band2	9262	4	30~1000MHz	554.75	-50.73	-13	PASS
Band2	9262	4	1000~20000MHz	7089.5	-42.28	-43	PASS
Band2	9400	4	0.009~0.15MHz	0.01	-72.38	-43	PASS
Band2	9400	4	0.15~30MHz	15.7	-69.97	-23	PASS
Band2	9400	4	30~1000MHz	554.75	-50.7	-13	PASS
Band2	9400	4	1000~20000MHz	7991.05	-42.25	-13	PASS
Band2	9538	4	0.009~0.15MHz	0.02	-72.18	-43	PASS
Band2	9538	4	0.15~30MHz	0.31	-69.98	-13	PASS
Band2	9538	4	30~1000MHz	562.51	-51.03	-23	PASS
Band2	9538	4	1000~20000MHz	7008.75	-42.36	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.04	-69.5	-43	PASS
Band4	1312	4	0.15~30MHz	13.2	-70.48	-23	PASS
Band4	1312	4	30~1000MHz	556.69	-50.68	-13	PASS
Band4	1312	4	1000~20000MHz	7862.8	-42.37	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.01	-72.7	-23	PASS
Band4	1413	4	0.15~30MHz	10.96	-70.56	-13	PASS
Band4	1413	4	30~1000MHz	558.14	-50.77	-13	PASS
Band4	1413	4	1000~20000MHz	7097.58	-42.41	-43	PASS
Band4	1513	4	0.009~0.15MHz	0.01	-73.6	-43	PASS
Band4	1513	4	0.15~30MHz	1.36	-69.75	-23	PASS
Band4	1513	4	30~1000MHz	555.23	-50.86	-13	PASS
Band4	1513	4	1000~20000MHz	6993.08	-42.61	-13	PASS
Band5	4132	4	0.009~0.15MHz	0.01	-71.93	-13	PASS
Band5	4132	4	0.15~30MHz	0.52	-70.61	-13	PASS
Band5	4132	4	30~1000MHz	581.45	-59.77	-13	PASS
Band5	4132	4	1000~10000MHz	7126.67	-42.44	-33	PASS
Band5	4182	4	0.009~0.15MHz	0.04	-70.28	-13	PASS
Band5	4182	4	0.15~30MHz	0.79	-70.14	-13	PASS
Band5	4182	4	30~1000MHz	548.47	-59.69	-13	PASS
Band5	4182	4	1000~10000MHz	7892.08	-42.86	-33	PASS
Band5	4233	4	0.009~0.15MHz	0.02	-72.9	-13	PASS
Band5	4233	4	0.15~30MHz	11.14	-69.73	-33	PASS
Band5	4233	4	30~1000MHz	561.56	-59.42	-13	PASS
Band5	4233	4	1000~10000MHz	7888.03	-42.84	-13	PASS

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