



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

TEST REPORT

For

MD-PH-001

MODEL NUMBER: MD-PH-001

REPORT NUMBER: 4791159315-3-RF-7

ISSUE DATE: July 31, 2024

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Prepared for

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Revision History

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<u>V0</u>	<u>July. 31, 2024</u>	<u>Initial Issue</u>	<u>\</u>

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: Chengdu Shuiyueyu Technology Co., Ltd.
 Address: 4th Floor, Building 2, No. 606, West Section of Haike Road,
 Chengdu Cross-Strait Science and Technology Industrial
 Development Park, Wenjiang District, Chengdu

Manufacturer Information

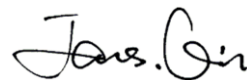
Company Name: Chengdu Shuiyueyu Technology Co., Ltd.
 Address: 4th Floor, Building 2, No. 606, West Section of Haike Road,
 Chengdu Cross-Strait Science and Technology Industrial
 Development Park, Wenjiang District, Chengdu

EUT Information

EUT Name: MD-PH-001
 Model: MD-PH-001
 Brand: \
 Sample Received Date: Mar. 21, 2024
 Sample Status: Normal
 Sample ID: 7236063
 Date of Tested: March 22, 2024 to July 31, 2024

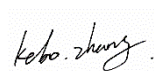
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 22 H	PASS
CFR 47 FCC PART 24 E	PASS
CFR 47 FCC PART 27	PASS

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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	<p>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.</p> <p>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 Declaration of Conformity (DoC) and Certification rules</p> <p>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.</p> <p>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.</p>
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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.

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 %
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name:	MD-PH-001
Model:	MD-PH-001

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

5.3. MAXIMUM ERP/EIRP POWER AND EMISSION DESIGNATOR

WCDMA Band2

Part 24					
EIRP Limit(W)	2.0				
Antenna Gain (dBi)	0.78				
Mode	Frequency Range (MHz)	Conducted Average power (dBm)	EIRP (W)	99% OBW (MHz)	Emission Designator
REL99	1852.4 ~ 1907.6	23.05	0.24	4.138	4M14F9W
HSDPA		21.74	0.18	4.143	4M14F9W
HSUPA		20.76	0.14	4.145	4M15F9W

WCDMA Band4

Part 27					
EIRP Limit(W)	1.0				
Antenna Gain (dBi)	0.75				
Mode	Frequency Range (MHz)	Conducted Average power (dBm)	EIRP (W)	99% OBW (MHz)	Emission Designator
REL99	1712.4 ~ 1752.6	22.57	0.21	4.145	4M16F9W
HSDPA		21.75	0.18	4.141	4M14F9W
HSUPA		20.63	0.14	4.142	4M14F9W

WCDMA Band5

Part 22					
ERP Limit(W)	7.0				
Antenna Gain (dBi)	-0.23				
Mode	Frequency Range (MHz)	Conducted Average power (dBm)	ERP (W)	99% OBW (MHz)	Emission Designator
REL99	826.4 ~ 846.6	23.57	0.13	4.152	4M15F9W
HSDPA		22.89	0.11	4.156	4M16F9W
HSUPA		21.81	0.09	4.151	4M15F9W

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.

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

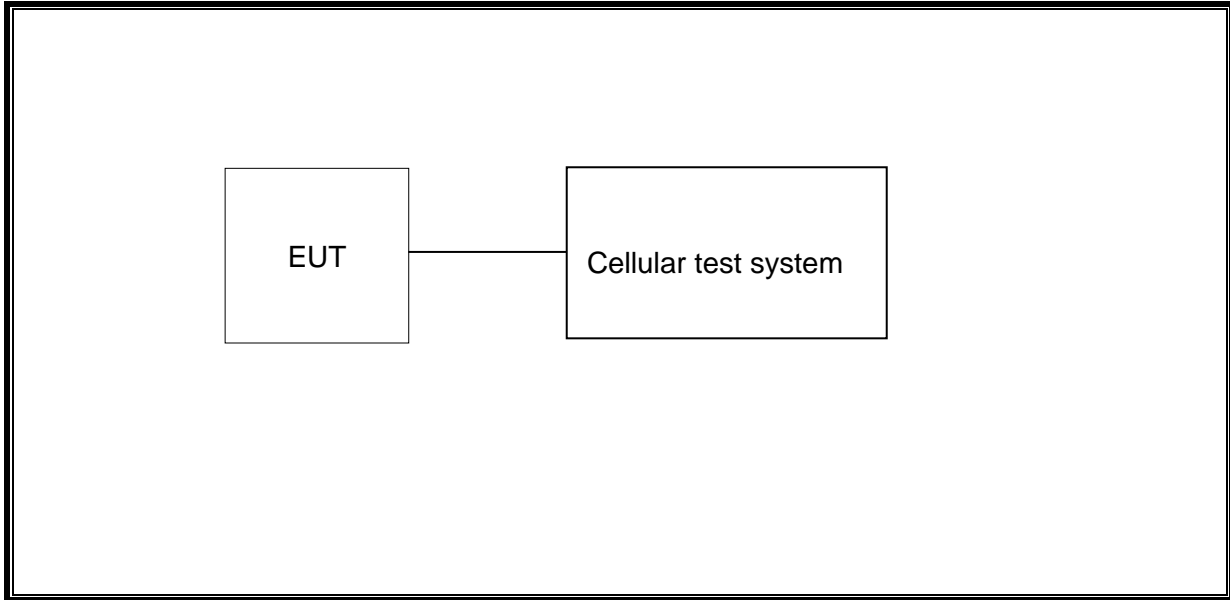
Antenna	Band	Antenna Type	MAX Antenna Gain (dBi)
Ant0	WCDMA Band 2	FPC	0.78
Ant0	WCDMA Band 4	FPC	0.75
Ant0	WCDMA Band 5	FPC	-0.23

Band	Transmit and Receive Mode	Description
WCDMA Band 2	<input checked="" type="checkbox"/> 1TX, 2RX	Ant0 antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
WCDMA Band 4	<input checked="" type="checkbox"/> 1TX, 2RX	Ant0 antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
WCDMA Band 5	<input checked="" type="checkbox"/> 1TX, 2RX	Ant0 antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna

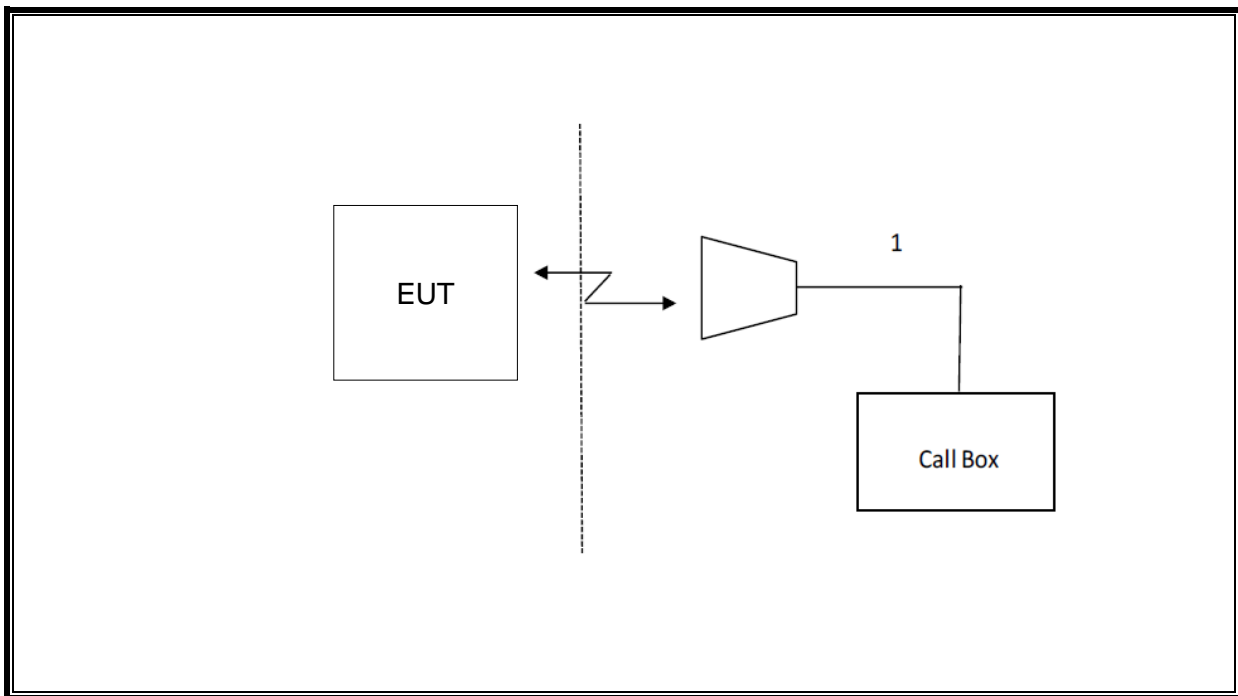
Note: The value of the antenna gain was declared by customer.

5.6. DESCRIPTION OF TEST SETUP

Conducted



Radiated



6. MEASURING INSTRUMENT AND SOFTWARE USED

Antenna Terminal Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	R&S	FSV40	S422060001	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.12, 2023	Oct.11, 2024
Software						
Used	Description	Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
<input checked="" type="checkbox"/>	Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
<input checked="" type="checkbox"/>	Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
<input checked="" type="checkbox"/>	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.12, 2023	Oct.11, 2024
Software						
Used	Description	Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance	Farad	EZ-EMC	Ver. UL-3A1		

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

$$\text{ERP/ EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

where:

ERP or EIRP = effective or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

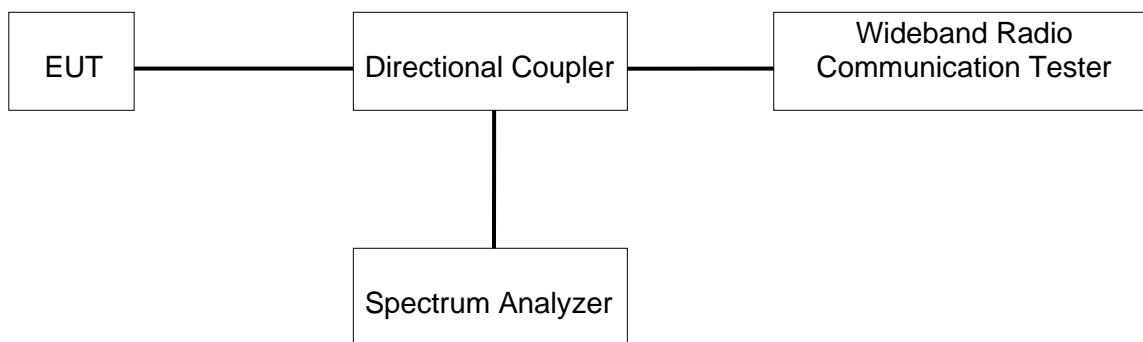
PMeas = measured transmitter output power or PSD, in dBm or dBW;

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



TEST ENVIRONMENT

Temperature	23.6°C	Relative Humidity	54.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Please refer to Appendix A.

7.2. PEAK TO AVERAGE RADIO

LIMITS

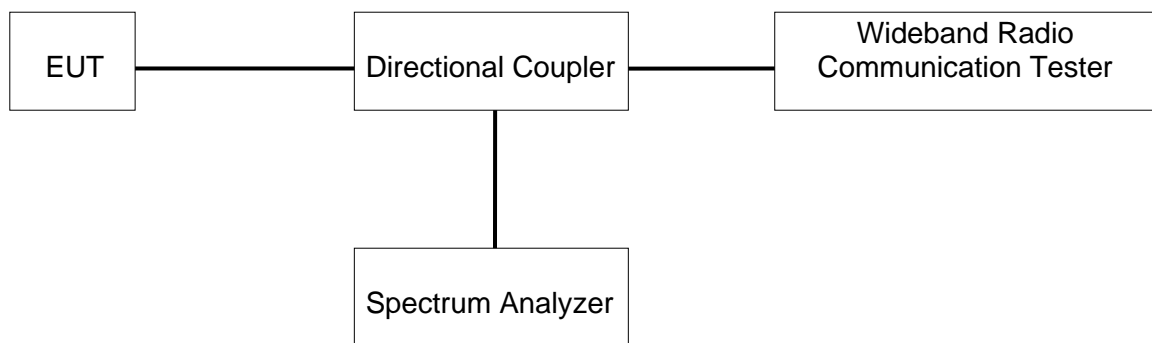
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

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	23.6°C	Relative Humidity	54.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Middle was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

Please refer to Appendix B.

7.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

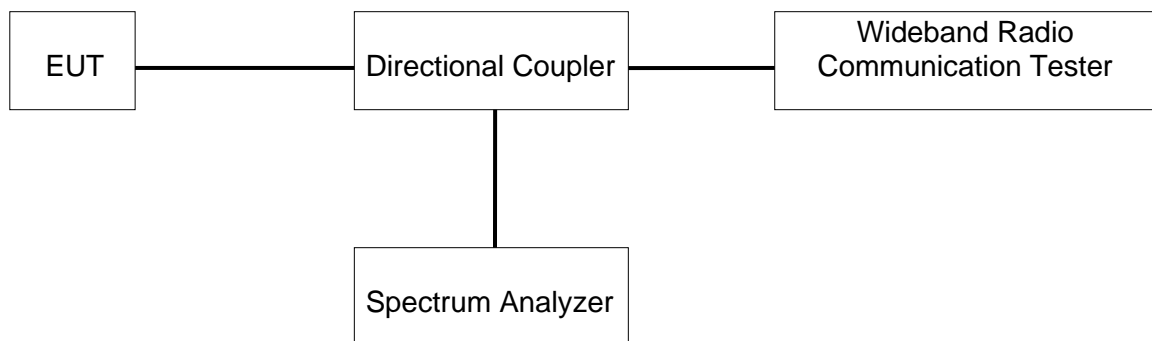
For reporting purposes only.

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	23.6°C	Relative Humidity	54.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

There is no limit required and power is the same for low, middle and high channel, therefore, only middle channel was tested.

Please refer to Appendix C.

7.4. BAND EDGE EMISSIONS

RULE PART(S)

FCC §2.1051, §22.917, §24.238, §27.53

LIMITS

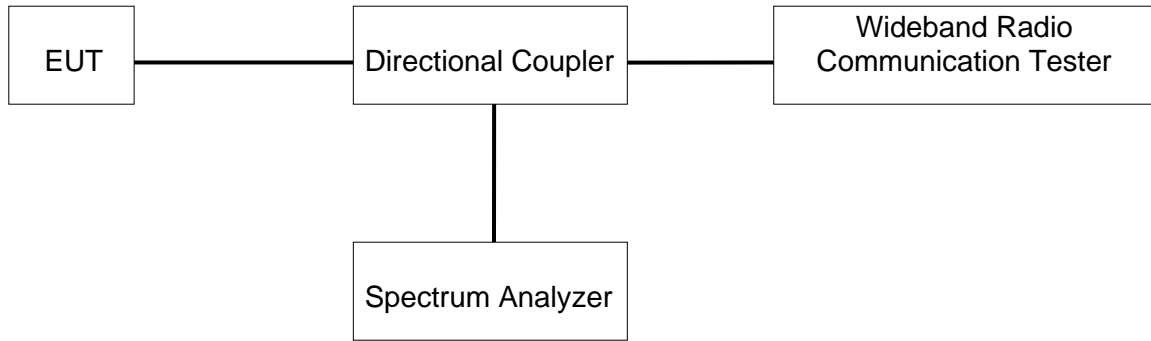
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

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 $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = Auto;
- e) Detector = RMS;
- f) Ensure that the number of measurement points $\geq 2 \times$ Span/RBW;
- g) Trace mode = Average (100);

TEST SETUP**TEST ENVIRONMENT**

Temperature	23.6°C	Relative Humidity	54.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Please refer to Appendix D.

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

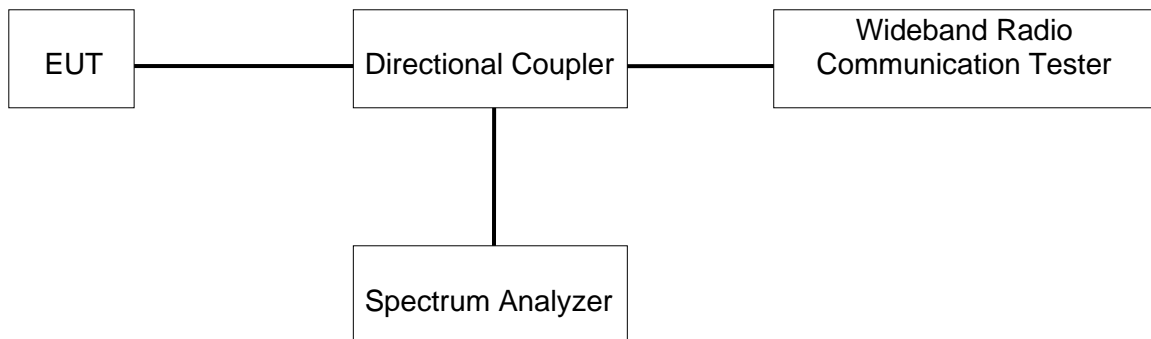
Per KDB 971168 D01 Power Meas License Digital Systems v03r01

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 $\geq 3 \times$ 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



TEST ENVIRONMENT

Temperature	23.6°C	Relative Humidity	54.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Please refer to Appendix E.

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.

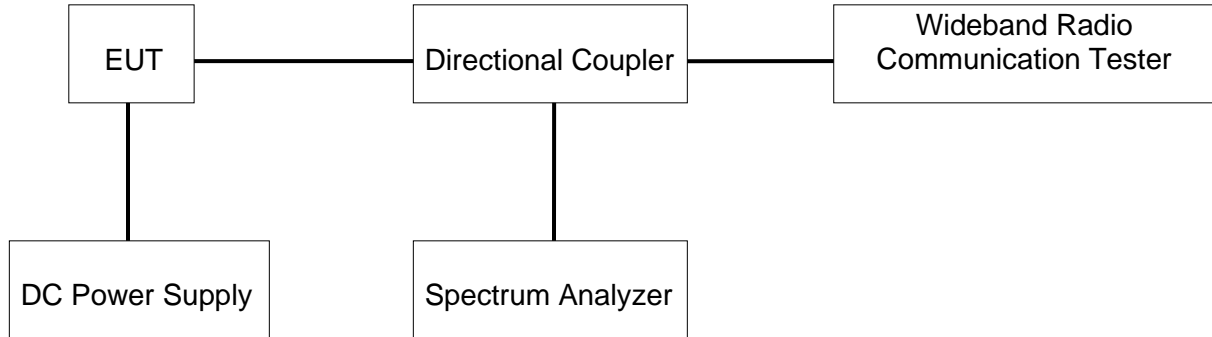
§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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 3.87 V	V _L (Low Voltage): DC 3.3V
		V _H (High Voltage): DC 4.5 V

TEST SETUP



TEST ENVIRONMENT

Temperature	23.6°C	Relative Humidity	54.1%
Atmosphere Pressure	101kPa	Test Voltage	/

RESULTS

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

Please refer to Appendix F.

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	22.35	23.05	22.73
HSDPA	Subtest 1	21.65	21.74	21.37
	Subtest 2	21.68	21.73	21.34
	Subtest 3	21.63	21.71	21.35
	Subtest 4	21.68	21.74	21.38
HSUPA	Subtest 1	19.63	19.67	19.30
	Subtest 2	19.63	19.65	19.30
	Subtest 3	19.67	20.73	19.35
	Subtest 4	19.15	19.21	18.85
	Subtest 5	20.66	20.76	20.36

Band 4		Average Power (dBm)		
		1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	21.79	21.94	22.57
HSDPA	Subtest 1	21.63	21.69	21.75
	Subtest 2	21.61	21.71	21.74
	Subtest 3	21.62	21.67	21.75
	Subtest 4	21.62	21.69	21.75
HSUPA	Subtest 1	19.50	20.10	20.14
	Subtest 2	19.51	19.57	19.63
	Subtest 3	19.50	19.60	19.64
	Subtest 4	19.01	19.14	19.16
	Subtest 5	20.53	20.60	20.63

Band 5		Average Power (dBm)		
		4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	23.57	23.53	23.52
HSDPA	Subtest 1	22.82	22.89	22.83
	Subtest 2	22.82	22.89	22.82
	Subtest 3	22.82	22.89	22.92
	Subtest 4	22.84	22.88	22.88
HSUPA	Subtest 1	20.78	21.33	21.34
	Subtest 2	20.77	20.83	20.84
	Subtest 3	21.78	21.86	20.84
	Subtest 4	20.28	20.34	20.35
	Subtest 5	21.76	21.81	21.83

8.2. AppendixB:Peak-to-Average Ratio

8.2.1. Test Result

REL99:

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.12	13	PASS
Band4	1413	3.14	13	PASS
Band5	4182	3.10	13	PASS

HSDPA:

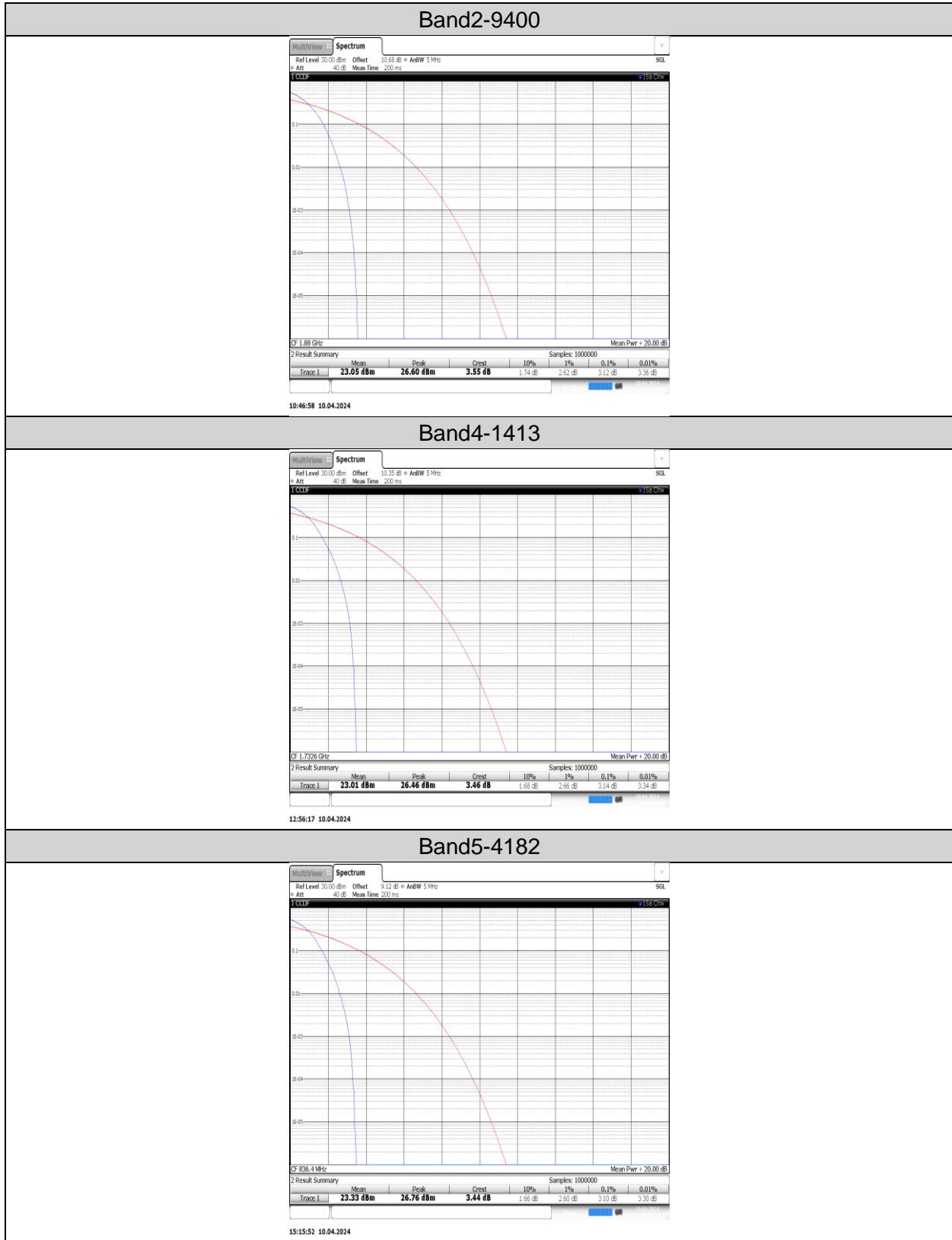
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	4	3.24	13	PASS
Band4	1413	4	3.2	13	PASS
Band5	4182	4	3.12	13	PASS

HSUPA:

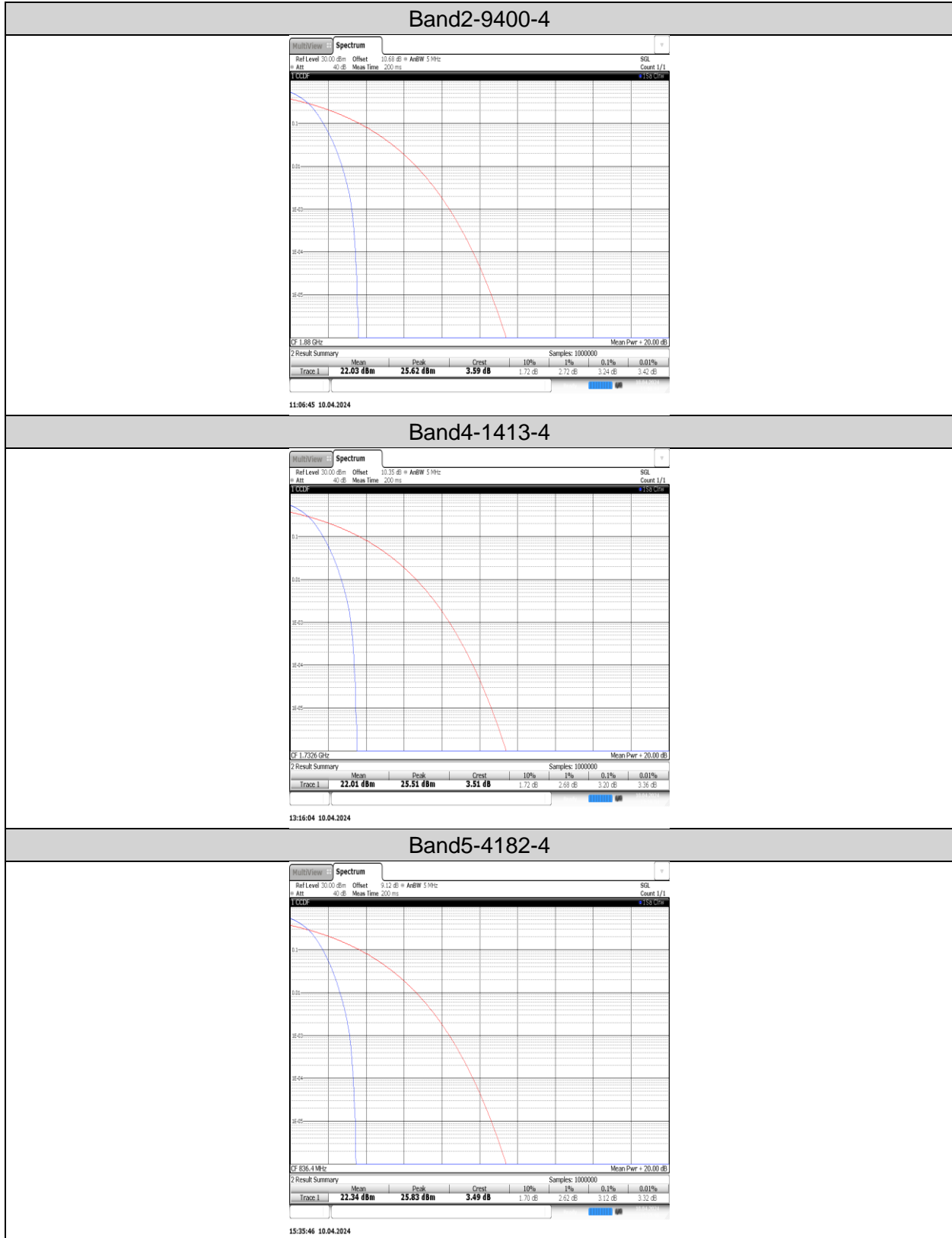
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	5	4.32	13	PASS
Band4	1413	5	4.26	13	PASS
Band5	4182	5	4.20	13	PASS

8.2.1. Test Graphs

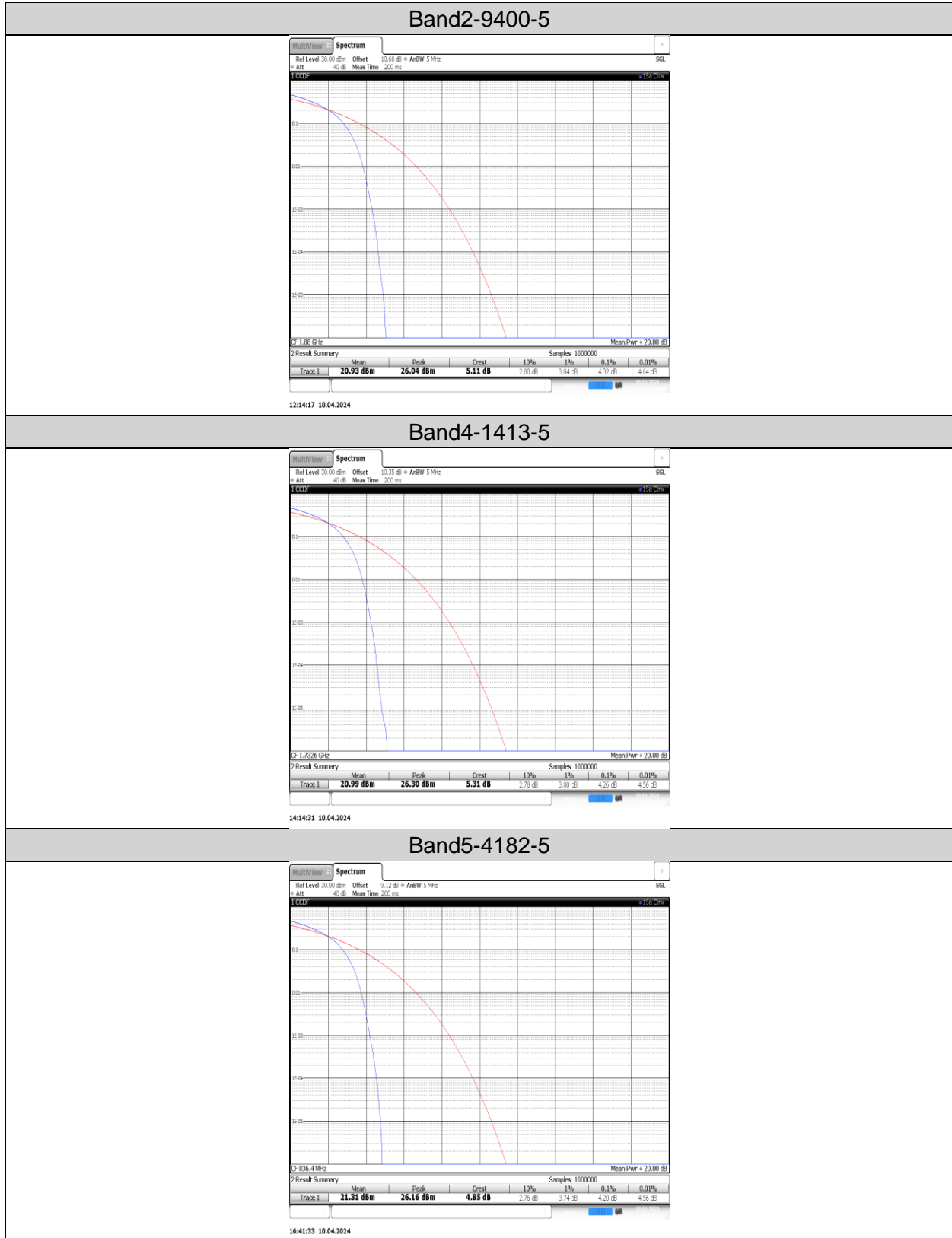
REL99:



HSDPA:



HSUPA:



8.3. AppendixC:26dB Bandwidth and Occupied Bandwidth

8.3.1. Test Result

REL99:

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9400	4.138	4.70	---	PASS
Band4	1413	4.145	4.69	---	PASS
Band5	4182	4.152	4.71	---	PASS

HSDPA:

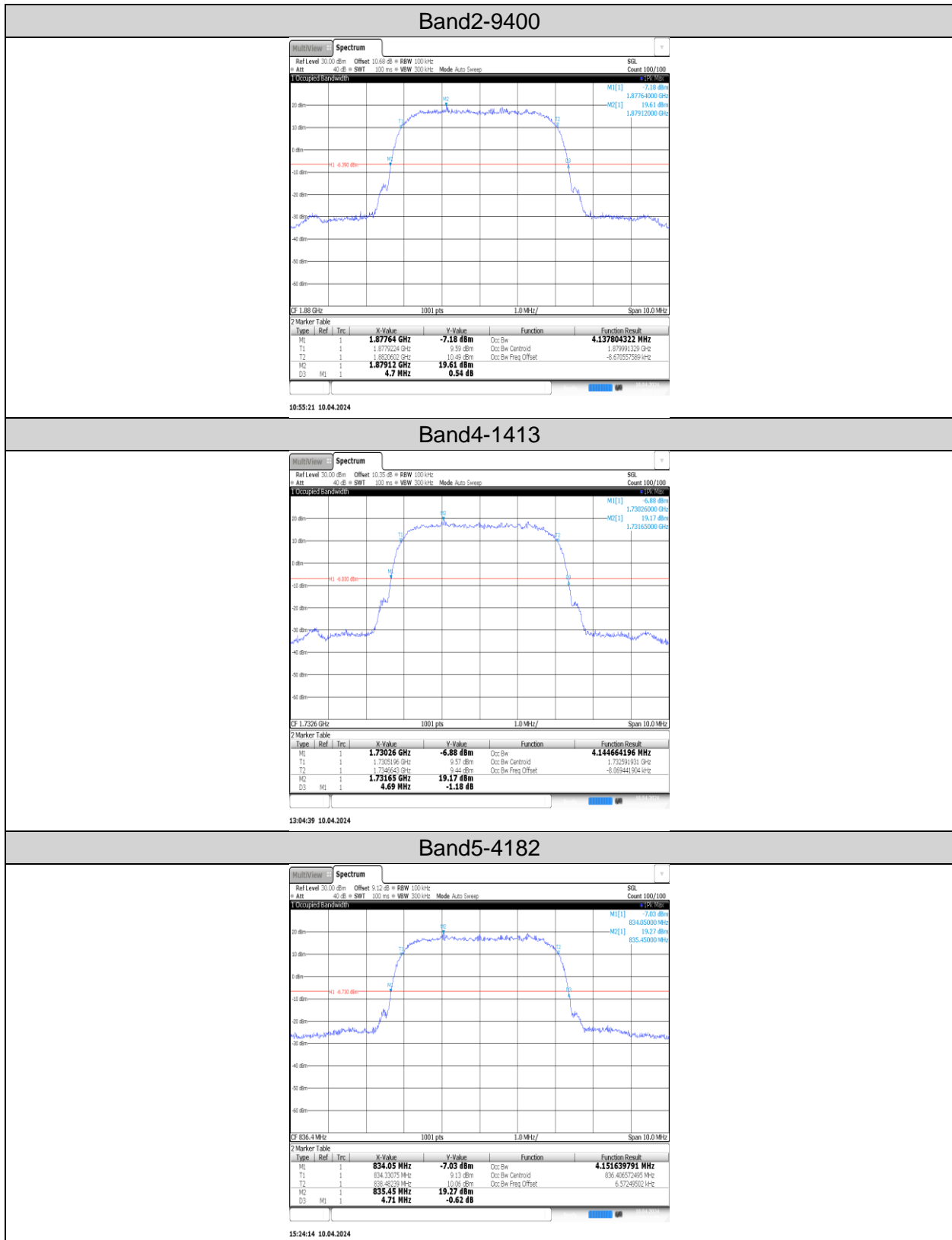
Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9400	4	4.143	4.70	---	PASS
Band4	1413	4	4.141	4.71	---	PASS
Band5	4182	4	4.156	4.71	---	PASS

HSUPA:

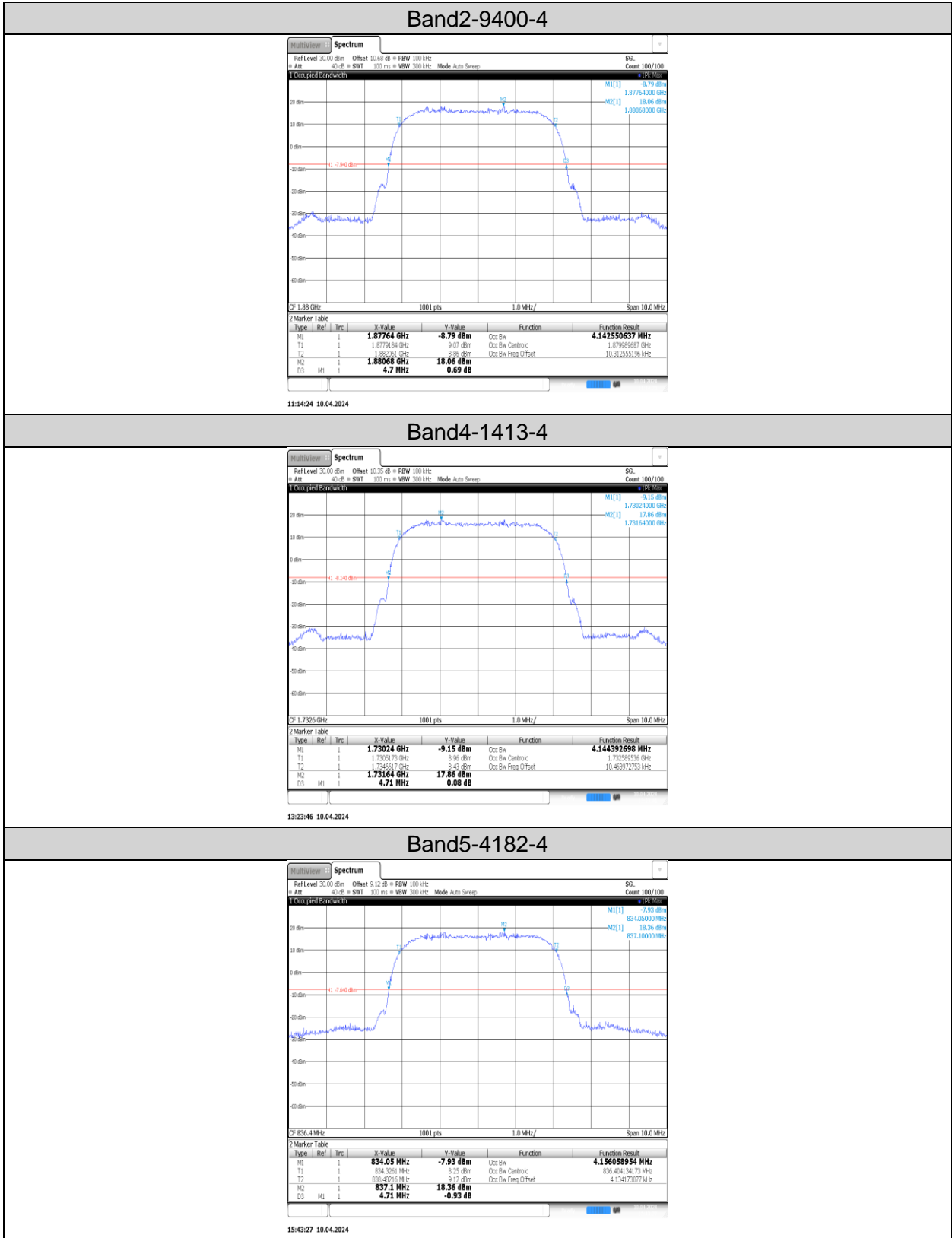
Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9400	5	4.145	4.72	---	PASS
Band4	1413	5	4.142	4.70	---	PASS
Band5	4182	5	4.151	4.70	---	PASS

8.3.2. Test Graphs

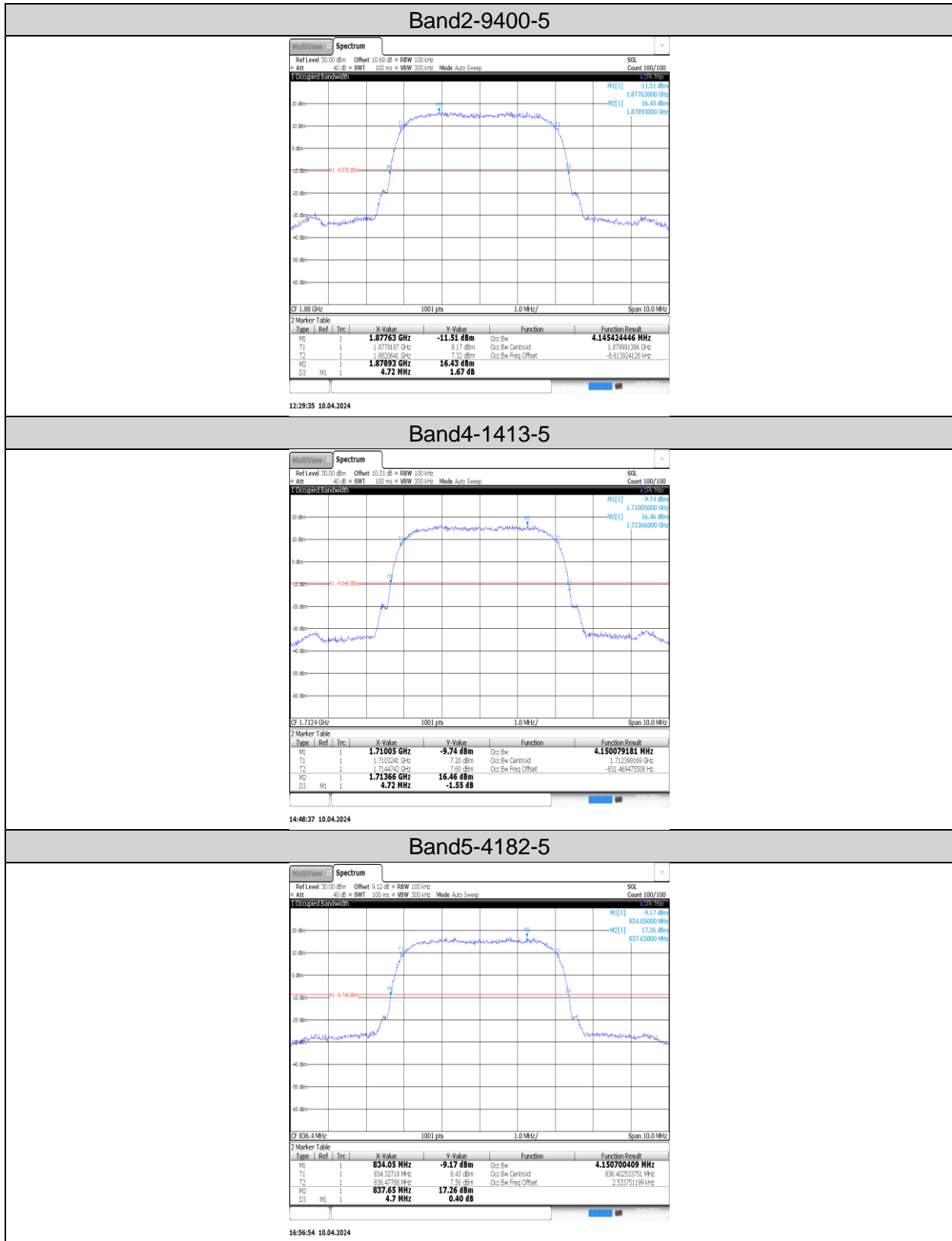
REL99:



HSDPA:



HSUPA:



8.4. AppendixD:Band Edge

8.4.1. Test Result

REL99:

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1849.88	-28.42	-13	PASS
Band2	9538	1910.12	-29.91	-13	PASS
Band4	1312	1710.00	-29.47	-13	PASS
Band4	1513	1755.12	-31.27	-13	PASS
Band5	4132	824.00	-27.36	-13	PASS
Band5	4233	849.00	-26.85	-13	PASS

HSDPA:

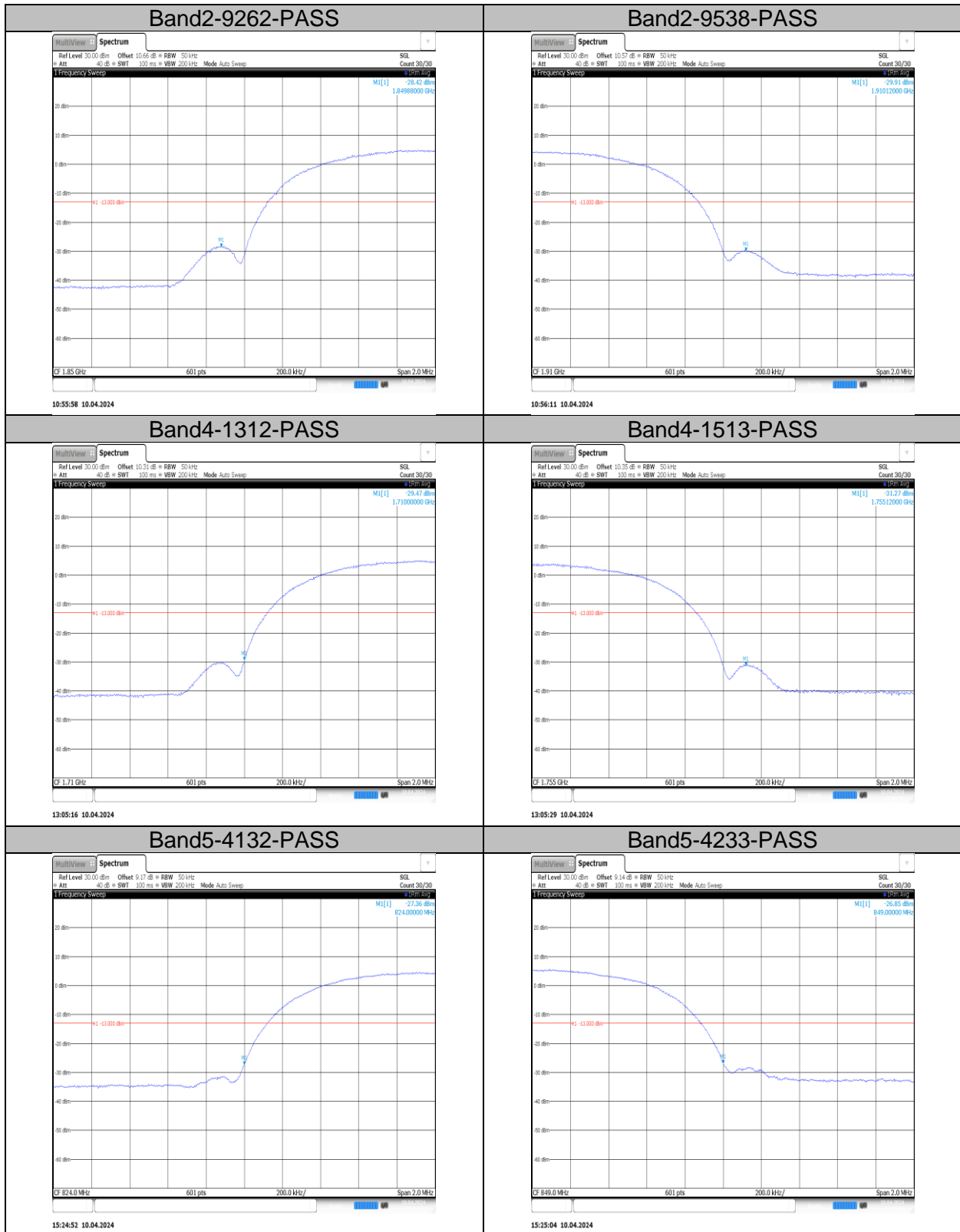
Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	4	1849.88	-29.51	-13	PASS
Band2	9538	4	1910.11	-30.37	-13	PASS
Band4	1312	4	1709.89	-30.75	-13	PASS
Band4	1513	4	1755.11	-31.88	-13	PASS
Band5	4132	4	824.00	-30.44	-13	PASS
Band5	4233	4	849.00	-29.38	-13	PASS

HSUPA:

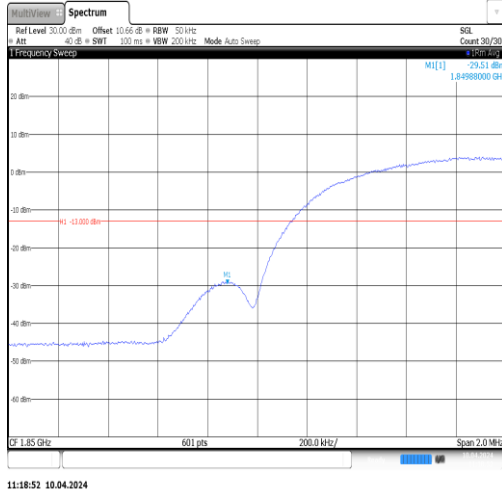
Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	5	1849.88	-31.05	-13	PASS
Band2	9538	5	1910.14	-32.30	-13	PASS
Band4	1312	5	1709.88	-31.07	-13	PASS
Band4	1513	5	1755.12	-33.00	-13	PASS
Band5	4132	5	823.86	-31.91	-13	PASS
Band5	4233	5	849.11	-30.55	-13	PASS

8.4.2. Test Graphs

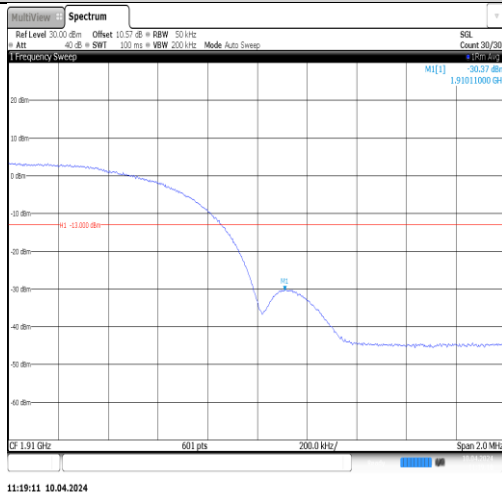
REL99:



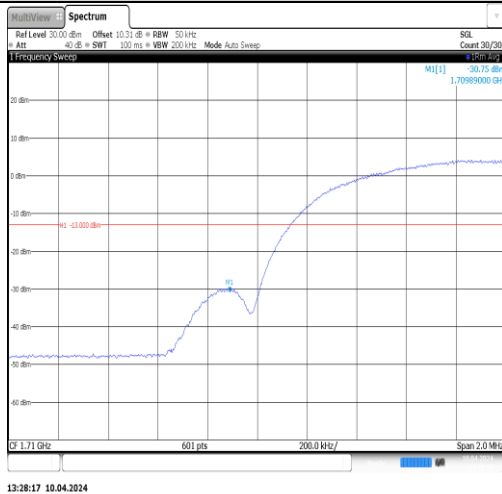
Band2-9262-4



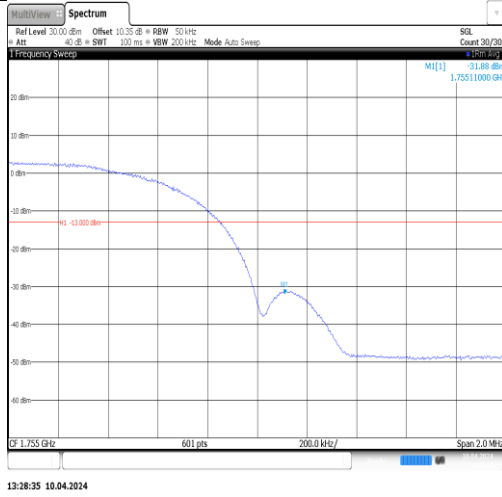
Band2-9538-4



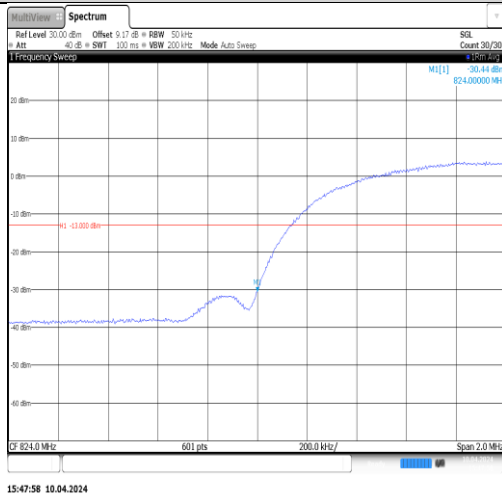
Band4-1312-4



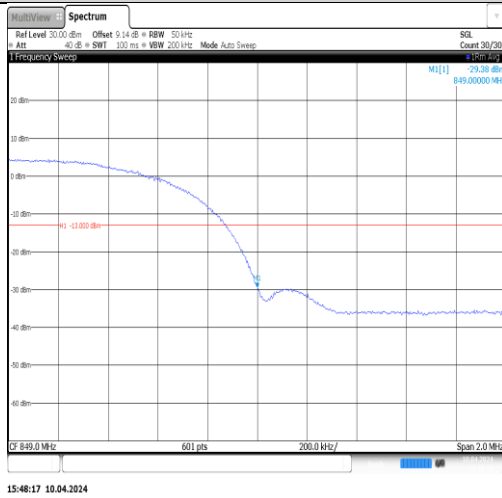
Band4-1513-4



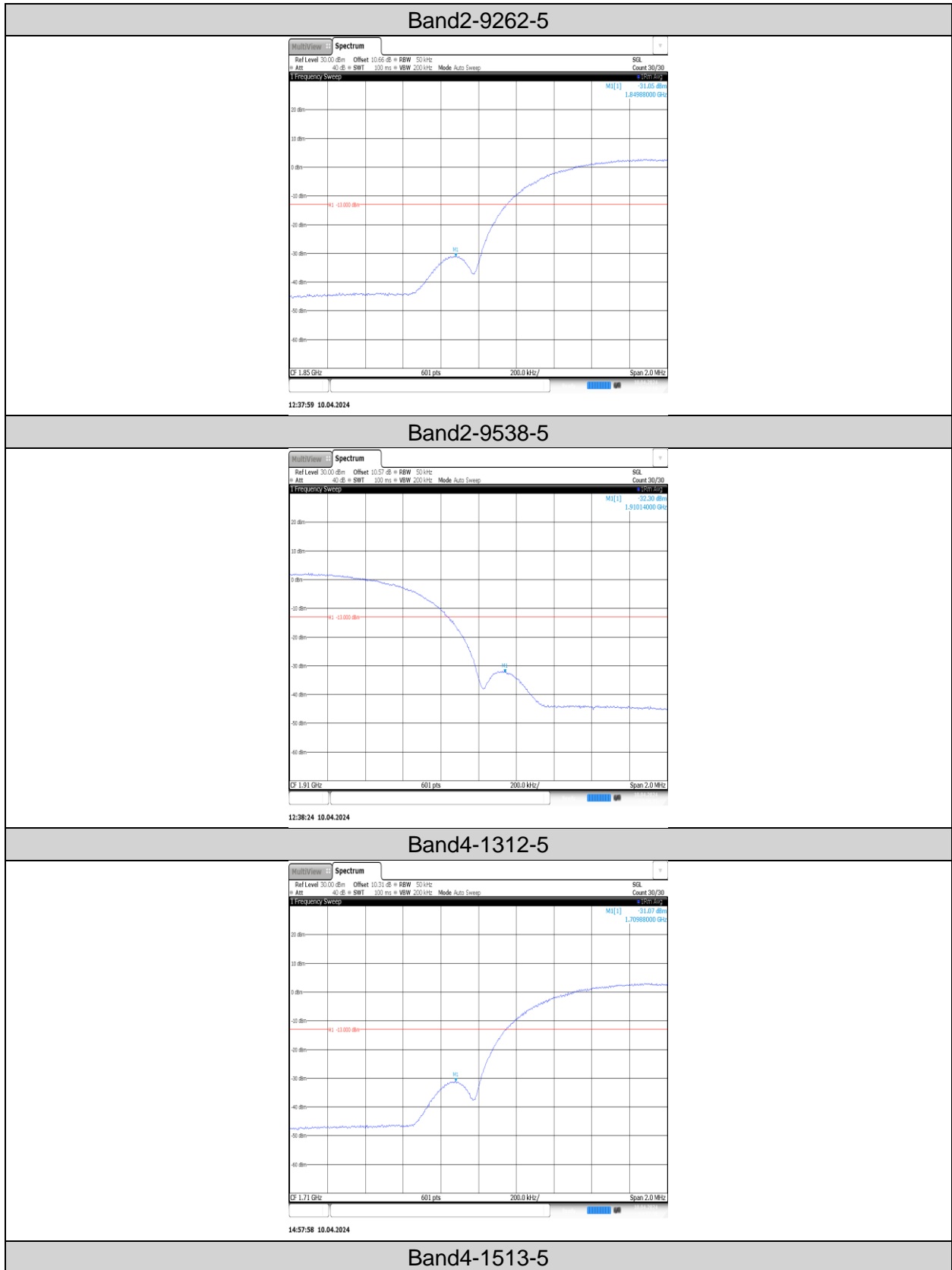
Band5-4132-4

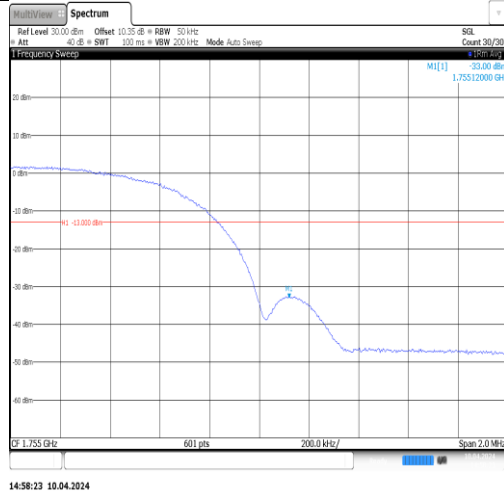


Band5-4233-4

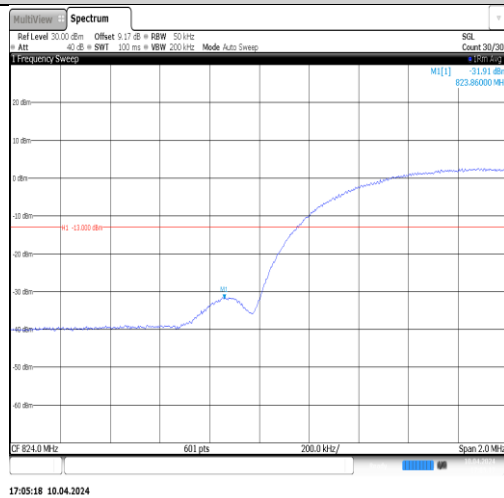


HSUPA:

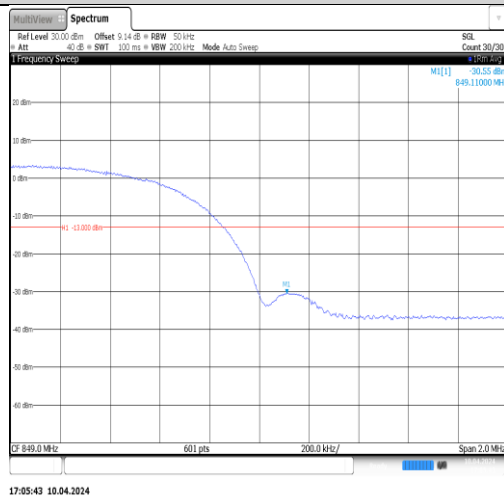




Band5-4132-5



Band5-4233-5



8.5. AppendixE:Conducted SpuriousEmission

8.5.1. Test Result

Rel99:

Band	Channel	Frequency Range	Frequency(dBm)	Result(dBm)	Limit(dBm)	Verdict
Band2	9262	30~1000MHz	555.23	-50.78	-13	PASS
Band2	9262	1000~2000MHz	7056.25	-42.05	-13	PASS
Band2	9400	30~1000MHz	553.78	-50.69	-13	PASS
Band2	9400	1000~2000MHz	7911.73	-42.3	-13	PASS
Band2	9538	30~1000MHz	560.08	-50.67	-13	PASS
Band2	9538	1000~2000MHz	7042	-42.26	-13	PASS
Band4	1312	30~1000MHz	555.72	-50.77	-13	PASS
Band4	1312	1000~2000MHz	7907.93	-42.09	-13	PASS
Band4	1413	30~1000MHz	554.27	-50.67	-13	PASS
Band4	1413	1000~2000MHz	7090.93	-42.3	-13	PASS
Band4	1513	30~1000MHz	555.72	-50.7	-13	PASS
Band4	1513	1000~2000MHz	7977.28	-41.78	-13	PASS
Band5	4132	30~1000MHz	558.17	-59.8	-13	PASS
Band5	4132	1000~10000MHz	7038.47	-42.85	-13	PASS
Band5	4182	30~1000MHz	990.3	-59.64	-13	PASS
Band5	4182	1000~10000MHz	7106.87	-42.67	-13	PASS
Band5	4233	30~1000MHz	620.73	-59.49	-13	PASS
Band5	4233	1000~10000MHz	7094.72	-42.93	-13	PASS

HSDPA:

Band	Channel	SubTest	Frequency Range	Frequency(dBm)	Result(dBm)	Limit(dBm)	Verdict
Band2	9262	1	30~1000MHz	557.17	-50.8	-13	PASS
Band2	9262	2	30~1000MHz	554.75	-50.79	-13	PASS
Band2	9262	3	30~1000MHz	555.23	-50.81	-13	PASS
Band2	9262	4	30~1000MHz	556.2	-50.84	-13	PASS
Band2	9262	1	1000~2000MHz	7933.1	-42.43	-13	PASS
Band2	9262	2	1000~2000MHz	7154.1	-42.34	-13	PASS
Band2	9262	3	1000~2000MHz	7110.88	-41.84	-13	PASS
Band2	9262	4	1000~2000MHz	7099.95	-42.46	-13	PASS
Band2	9400	1	30~1000MHz	552.81	-50.75	-13	PASS
Band2	9400	2	30~1000MHz	556.2	-50.71	-13	PASS
Band2	9400	3	30~1000MHz	555.72	-50.63	-13	PASS
Band2	9400	4	30~1000MHz	554.27	-50.52	-13	PASS
Band2	9400	1	1000~2000MHz	7999.13	-42.37	-13	PASS
Band2	9400	2	1000~2000MHz	7068.6	-42.17	-13	PASS
Band2	9400	3	1000~2000MHz	7942.13	-42.07	-13	PASS
Band2	9400	4	1000~2000MHz	7031.08	-42.4	-13	PASS
Band2	9538	1	30~1000MHz	553.3	-50.87	-13	PASS
Band2	9538	2	30~1000MHz	553.78	-50.78	-13	PASS
Band2	9538	3	30~1000MHz	555.23	-50.85	-13	PASS
Band2	9538	4	30~1000MHz	554.75	-50.83	-13	PASS
Band2	9538	1	1000~2000MHz	7061.95	-42.11	-13	PASS
Band2	9538	2	1000~2000MHz	7974.9	-42.31	-13	PASS
Band2	9538	3	1000~2000MHz	7944.03	-42.66	-13	PASS
Band2	9538	4	1000~2000MHz	7795.35	-41.83	-13	PASS
Band4	1312	1	30~1000MHz	553.78	-50.81	-13	PASS
Band4	1312	2	30~1000MHz	556.69	-50.88	-13	PASS
Band4	1312	3	30~1000MHz	557.17	-50.94	-13	PASS
Band4	1312	4	30~1000MHz	554.27	-50.79	-13	PASS
Band4	1312	1	1000~2000MHz	7046.28	-41.85	-13	PASS
Band4	1312	2	1000~2000MHz	7029.65	-42.53	-13	PASS
Band4	1312	3	1000~2000MHz	7065.28	-42.64	-13	PASS

Band4	1312	4	1000~2000MHz	7080.95	-42.19	-13	PASS
Band4	1413	1	30~1000MHz	554.27	-50.8	-13	PASS
Band4	1413	2	30~1000MHz	555.23	-50.83	-13	PASS
Band4	1413	3	30~1000MHz	554.27	-50.76	-13	PASS
Band4	1413	4	30~1000MHz	553.78	-50.76	-13	PASS
Band4	1413	1	1000~2000MHz	7951.63	-42.28	-13	PASS
Band4	1413	2	1000~2000MHz	7965.4	-42.29	-13	PASS
Band4	1413	3	1000~2000MHz	7931.2	-42.2	-13	PASS
Band4	1413	4	1000~2000MHz	7981.08	-42.54	-13	PASS
Band4	1513	1	30~1000MHz	555.72	-50.81	-13	PASS
Band4	1513	2	30~1000MHz	555.72	-50.53	-13	PASS
Band4	1513	3	30~1000MHz	558.63	-50.8	-13	PASS
Band4	1513	4	30~1000MHz	555.23	-50.74	-13	PASS
Band4	1513	1	1000~2000MHz	7936.43	-42.49	-13	PASS
Band4	1513	2	1000~2000MHz	7911.25	-42.23	-13	PASS
Band4	1513	3	1000~2000MHz	7878.95	-42.49	-13	PASS
Band4	1513	4	1000~2000MHz	7059.1	-42.31	-13	PASS
Band5	4132	1	30~1000MHz	540.22	-59.7	-13	PASS
Band5	4132	2	30~1000MHz	545.56	-60	-13	PASS
Band5	4132	3	30~1000MHz	553.32	-59.12	-13	PASS
Band5	4132	4	30~1000MHz	543.13	-59.85	-13	PASS
Band5	4132	1	1000~10000MHz	7123.97	-42.9	-13	PASS
Band5	4132	2	1000~10000MHz	7906.03	-42.88	-13	PASS
Band5	4132	3	1000~10000MHz	7063.22	-42.77	-13	PASS
Band5	4132	4	1000~10000MHz	7944.73	-42.91	-13	PASS
Band5	4182	1	30~1000MHz	552.83	-59.2	-13	PASS
Band5	4182	2	30~1000MHz	947.14	-59.62	-13	PASS
Band5	4182	3	30~1000MHz	549.92	-59.51	-13	PASS
Band5	4182	4	30~1000MHz	554.77	-59.55	-13	PASS
Band5	4182	1	1000~10000MHz	7921.78	-42.94	-13	PASS
Band5	4182	2	1000~10000MHz	7957.78	-42.92	-13	PASS
Band5	4182	3	1000~10000MHz	7956.88	-42.58	-13	PASS
Band5	4182	4	1000~10000MHz	7009.22	-42.78	-13	PASS
Band5	4233	1	30~1000MHz	964.6	-59.45	-13	PASS
Band5	4233	2	30~1000MHz	582.42	-59.73	-13	PASS
Band5	4233	3	30~1000MHz	563.5	-59.67	-13	PASS
Band5	4233	4	30~1000MHz	553.8	-59.6	-13	PASS
Band5	4233	1	1000~10000MHz	7994.68	-42.82	-13	PASS
Band5	4233	2	1000~10000MHz	7998.28	-42.79	-13	PASS
Band5	4233	3	1000~10000MHz	7989.28	-43.09	-13	PASS
Band5	4233	4	1000~10000MHz	7881.28	-42.99	-13	PASS

HSUPA:

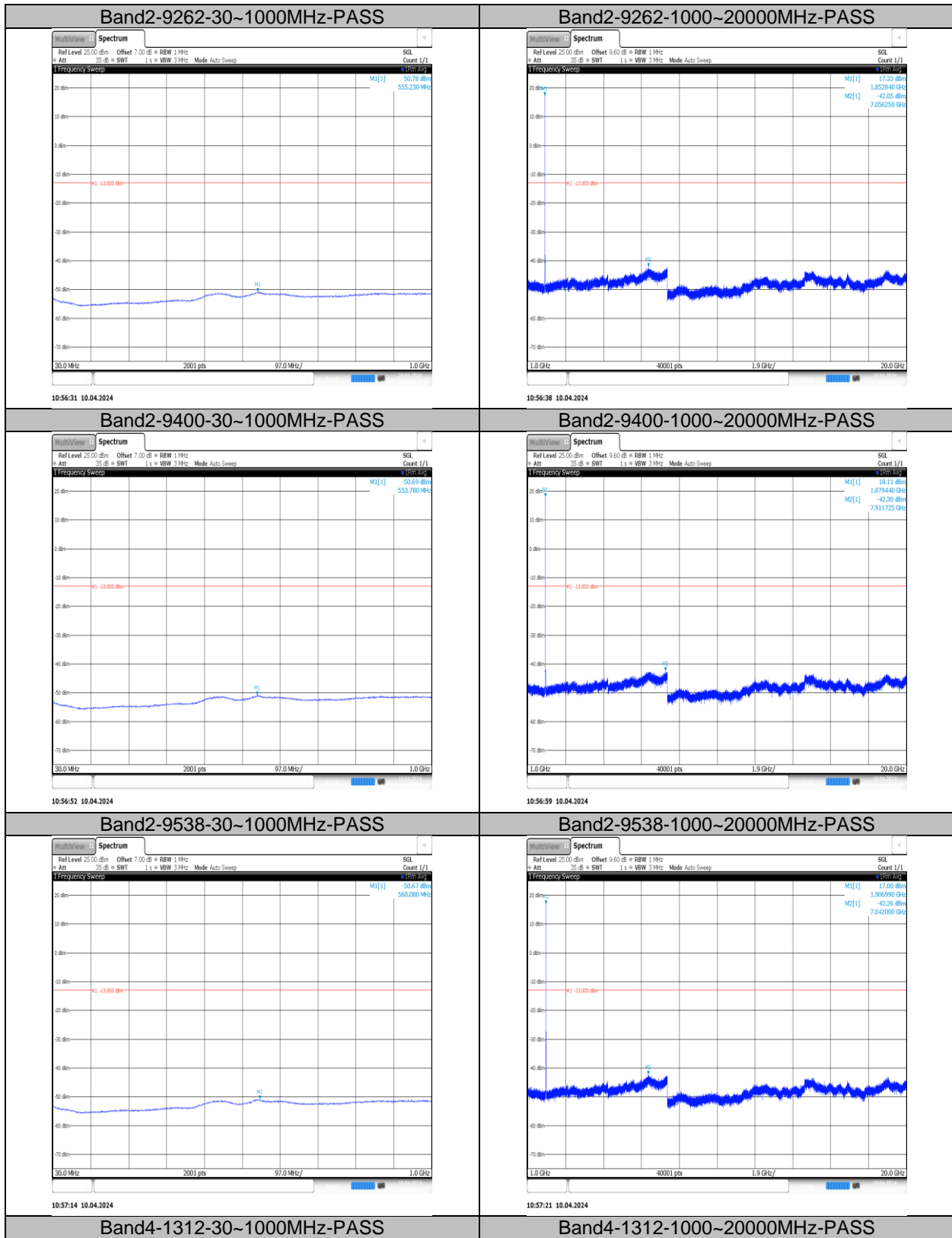
Band	Channel	SubTest	Frequency Range	Frequency(dBm)	Result(dBm)	Limit(dBm)	Verdict
Band2	9262	1	30~1000MHz	552.81	-50.77	-13	PASS
Band2	9262	2	30~1000MHz	557.17	-50.78	-13	PASS
Band2	9262	3	30~1000MHz	555.23	-50.78	-13	PASS
Band2	9262	4	30~1000MHz	555.72	-50.83	-13	PASS
Band2	9262	5	30~1000MHz	558.14	-50.72	-13	PASS
Band2	9262	1	1000~2000MHz	7034.4	-42.53	-13	PASS
Band2	9262	2	1000~2000MHz	7044.38	-41.94	-13	PASS
Band2	9262	3	1000~2000MHz	6924.2	-42.43	-13	PASS
Band2	9262	4	1000~2000MHz	7128.93	-42.28	-13	PASS
Band2	9262	5	1000~2000MHz	7945.93	-42.17	-13	PASS
Band2	9400	1	30~1000MHz	555.23	-50.83	-13	PASS
Band2	9400	2	30~1000MHz	555.23	-50.91	-13	PASS
Band2	9400	3	30~1000MHz	556.69	-50.72	-13	PASS
Band2	9400	4	30~1000MHz	553.78	-50.86	-13	PASS

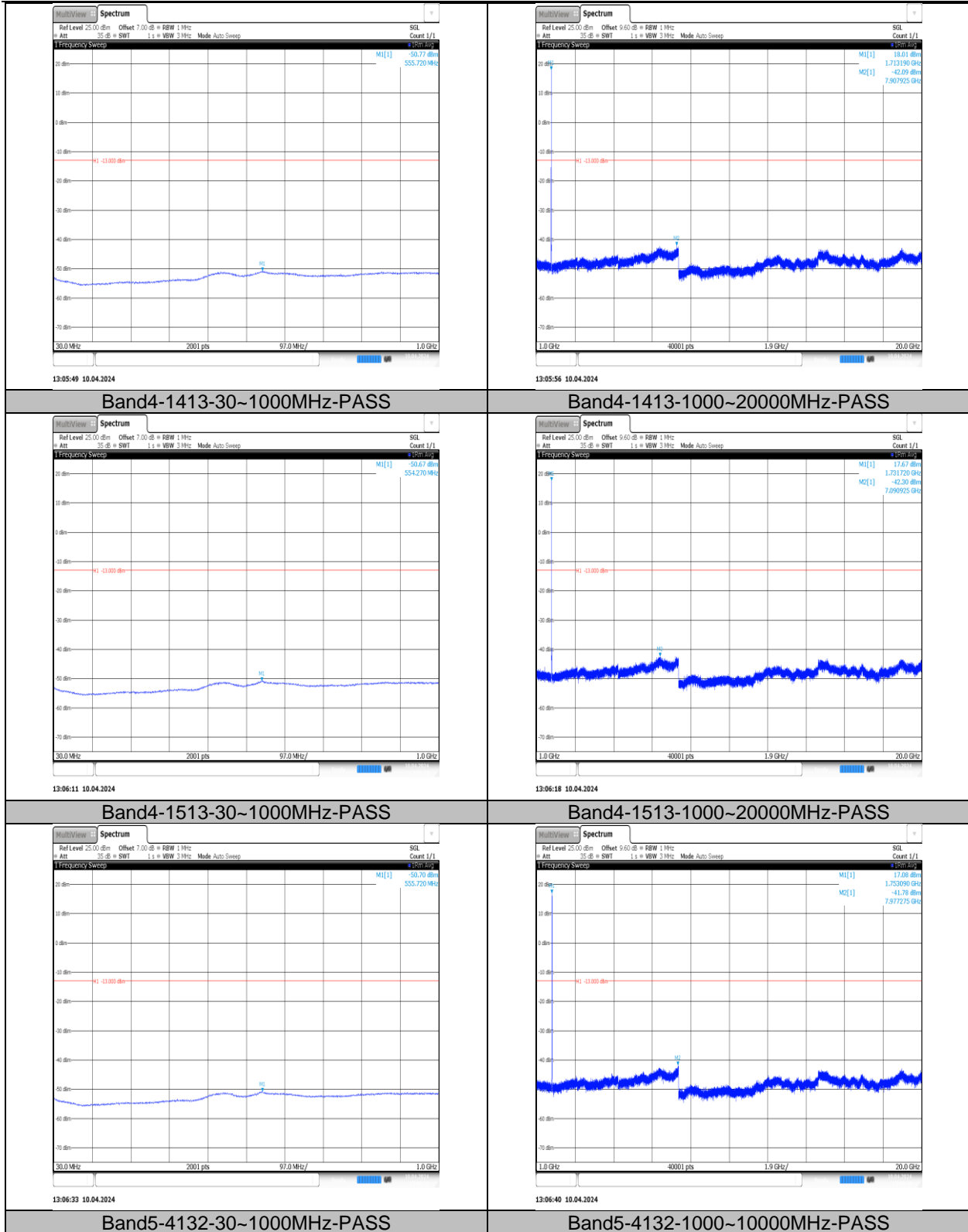
Band2	9400	5	30~1000MHz	552.33	-50.8	-13	PASS
Band2	9400	1	1000~20000MHz	7045.33	-42.45	-13	PASS
Band2	9400	2	1000~20000MHz	7060.53	-42.06	-13	PASS
Band2	9400	3	1000~20000MHz	7999.13	-42.45	-13	PASS
Band2	9400	4	1000~20000MHz	7089.98	-42.37	-13	PASS
Band2	9400	5	1000~20000MHz	6987.38	-41.96	-13	PASS
Band2	9538	1	30~1000MHz	558.14	-50.81	-13	PASS
Band2	9538	2	30~1000MHz	556.2	-50.81	-13	PASS
Band2	9538	3	30~1000MHz	553.78	-50.72	-13	PASS
Band2	9538	4	30~1000MHz	555.23	-50.7	-13	PASS
Band2	9538	5	30~1000MHz	554.75	-50.91	-13	PASS
Band2	9538	1	1000~20000MHz	7004.48	-42.49	-13	PASS
Band2	9538	2	1000~20000MHz	7105.65	-42.2	-13	PASS
Band2	9538	3	1000~20000MHz	7956.85	-42.32	-13	PASS
Band2	9538	4	1000~20000MHz	7959.7	-42.31	-13	PASS
Band2	9538	5	1000~20000MHz	7927.4	-42.21	-13	PASS
Band4	1312	1	30~1000MHz	552.33	-50.98	-13	PASS
Band4	1312	2	30~1000MHz	554.75	-50.82	-13	PASS
Band4	1312	3	30~1000MHz	555.72	-50.82	-13	PASS
Band4	1312	4	30~1000MHz	553.78	-50.89	-13	PASS
Band4	1312	5	30~1000MHz	556.2	-50.8	-13	PASS
Band4	1312	1	1000~20000MHz	7942.13	-42.05	-13	PASS
Band4	1312	2	1000~20000MHz	7998.18	-42.15	-13	PASS
Band4	1312	3	1000~20000MHz	7889.4	-42.5	-13	PASS
Band4	1312	4	1000~20000MHz	7933.1	-42.67	-13	PASS
Band4	1312	5	1000~20000MHz	7124.65	-42.11	-13	PASS
Band4	1413	1	30~1000MHz	554.27	-50.82	-13	PASS
Band4	1413	2	30~1000MHz	553.78	-50.81	-13	PASS
Band4	1413	3	30~1000MHz	554.75	-50.78	-13	PASS
Band4	1413	4	30~1000MHz	556.2	-50.95	-13	PASS
Band4	1413	5	30~1000MHz	554.27	-50.81	-13	PASS
Band4	1413	1	1000~20000MHz	7938.33	-42.19	-13	PASS
Band4	1413	2	1000~20000MHz	7957.8	-42.21	-13	PASS
Band4	1413	3	1000~20000MHz	7105.18	-42.64	-13	PASS
Band4	1413	4	1000~20000MHz	7008.28	-42.51	-13	PASS
Band4	1413	5	1000~20000MHz	7882.28	-42.33	-13	PASS
Band4	1513	1	30~1000MHz	558.14	-50.74	-13	PASS
Band4	1513	2	30~1000MHz	555.23	-50.8	-13	PASS
Band4	1513	3	30~1000MHz	557.66	-50.82	-13	PASS
Band4	1513	4	30~1000MHz	555.72	-50.79	-13	PASS
Band4	1513	5	30~1000MHz	560.57	-50.84	-13	PASS
Band4	1513	1	1000~20000MHz	7885.6	-42.67	-13	PASS
Band4	1513	2	1000~20000MHz	6968.85	-42.42	-13	PASS
Band4	1513	3	1000~20000MHz	7955.9	-42.07	-13	PASS
Band4	1513	4	1000~20000MHz	7865.65	-41.8	-13	PASS
Band4	1513	5	1000~20000MHz	7008.28	-42.21	-13	PASS
Band5	4132	1	30~1000MHz	995.15	-59.72	-13	PASS
Band5	4132	2	30~1000MHz	998.55	-59.84	-13	PASS
Band5	4132	3	30~1000MHz	549.92	-59.87	-13	PASS
Band5	4132	4	30~1000MHz	586.3	-59.94	-13	PASS
Band5	4132	5	30~1000MHz	556.23	-59.75	-13	PASS
Band5	4132	1	1000~10000MHz	7053.32	-42.86	-13	PASS
Band5	4132	2	1000~10000MHz	7959.58	-43.06	-13	PASS
Band5	4132	3	1000~10000MHz	7972.63	-43.17	-13	PASS
Band5	4132	4	1000~10000MHz	7092.47	-42.99	-13	PASS
Band5	4132	5	1000~10000MHz	7963.18	-42.86	-13	PASS
Band5	4182	1	30~1000MHz	549.92	-59.52	-13	PASS
Band5	4182	2	30~1000MHz	447.59	-59.68	-13	PASS
Band5	4182	3	30~1000MHz	556.23	-59.68	-13	PASS

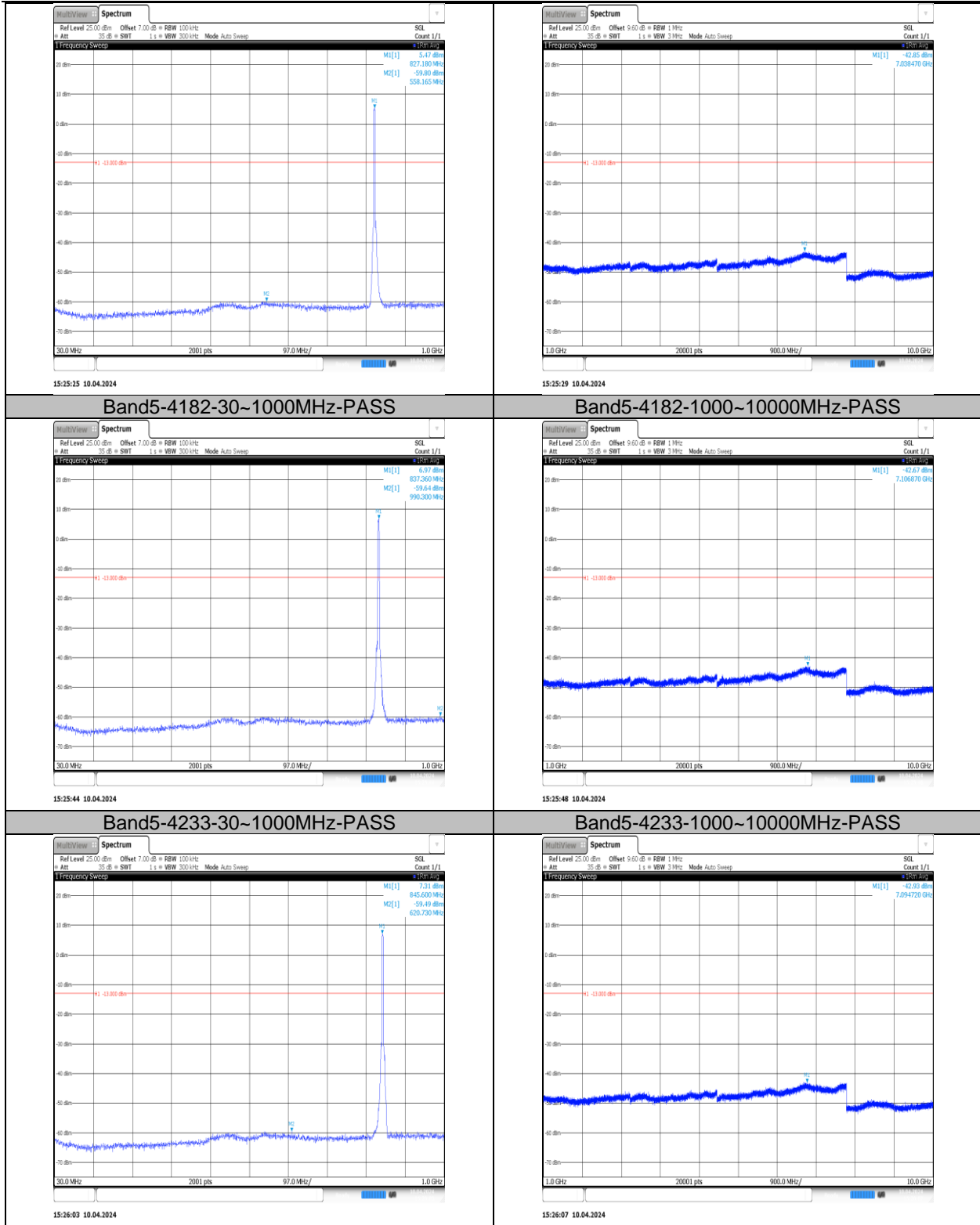
Band5	4182	4	30~1000MHz	541.19	-59.59	-13	PASS
Band5	4182	5	30~1000MHz	567.38	-59.71	-13	PASS
Band5	4182	1	1000~10000MHz	7036.67	-42.91	-13	PASS
Band5	4182	2	1000~10000MHz	7927.63	-42.81	-13	PASS
Band5	4182	3	1000~10000MHz	7018.67	-42.78	-13	PASS
Band5	4182	4	1000~10000MHz	7955.98	-42.78	-13	PASS
Band5	4182	5	1000~10000MHz	7894.33	-42.93	-13	PASS
Band5	4233	1	30~1000MHz	555.26	-59.51	-13	PASS
Band5	4233	2	30~1000MHz	597.94	-59.65	-13	PASS
Band5	4233	3	30~1000MHz	555.74	-59.7	-13	PASS
Band5	4233	4	30~1000MHz	465.05	-59.68	-13	PASS
Band5	4233	5	30~1000MHz	561.08	-59.58	-13	PASS
Band5	4233	1	1000~10000MHz	7900.63	-42.84	-13	PASS
Band5	4233	2	1000~10000MHz	7903.78	-42.88	-13	PASS
Band5	4233	3	1000~10000MHz	7943.38	-42.73	-13	PASS
Band5	4233	4	1000~10000MHz	7951.48	-42.85	-13	PASS
Band5	4233	5	1000~10000MHz	7964.98	-42.98	-13	PASS

8.5.2. Test Graphs

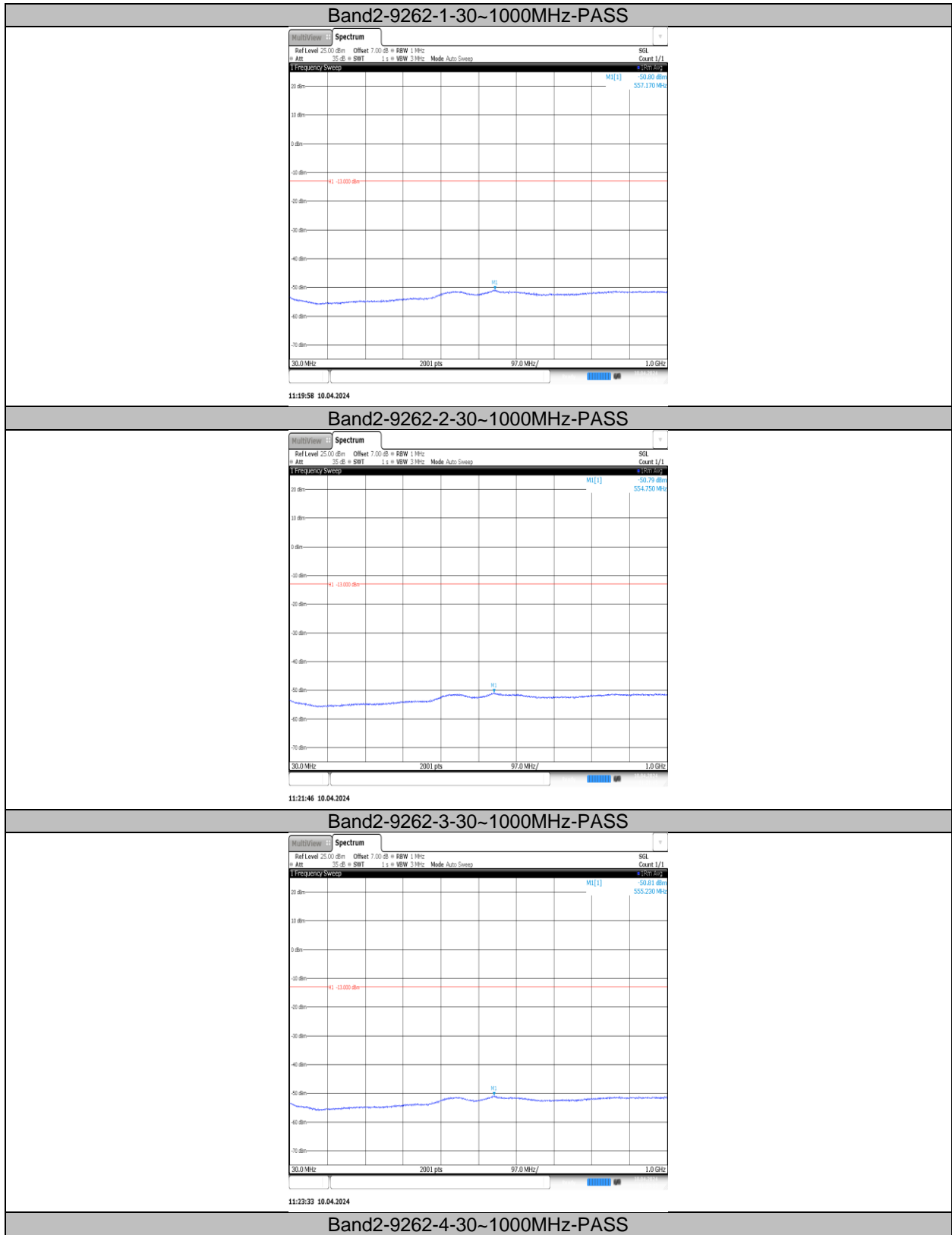
Rel99:

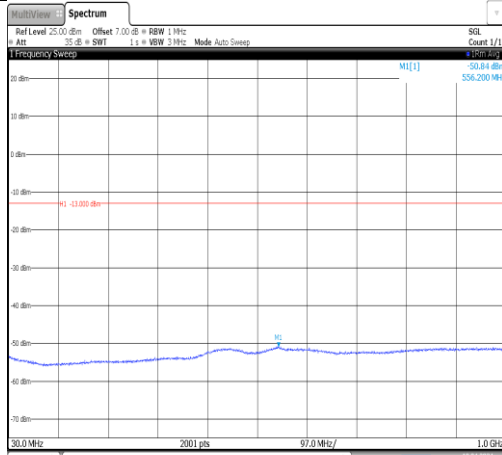






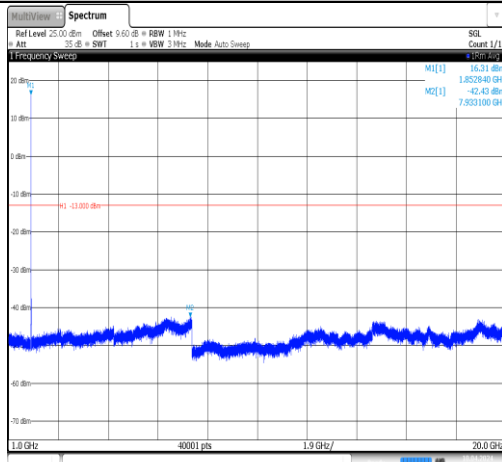
HSDPA:





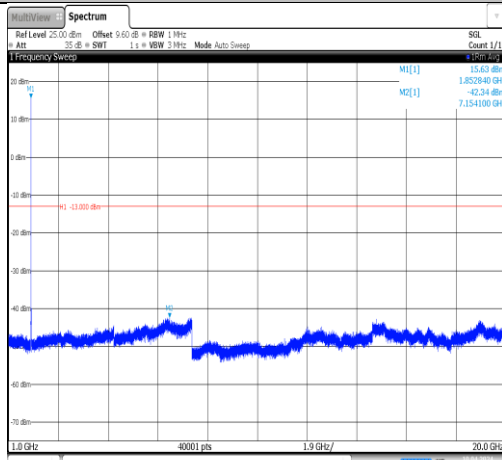
11:25:21 10.04.2024

Band2-9262-1-1000~20000MHz-PASS



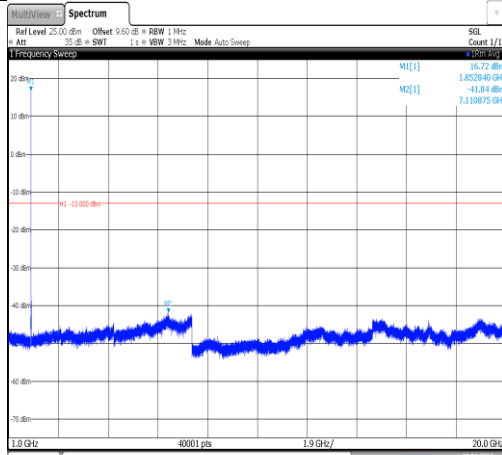
11:20:07 10.04.2024

Band2-9262-2-1000~20000MHz-PASS



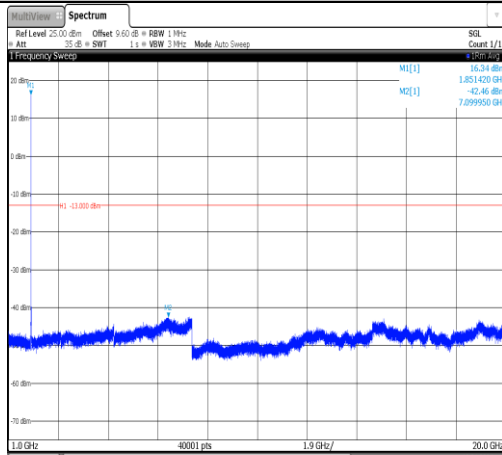
11:21:55 10.04.2024

Band2-9262-3-1000~20000MHz-PASS



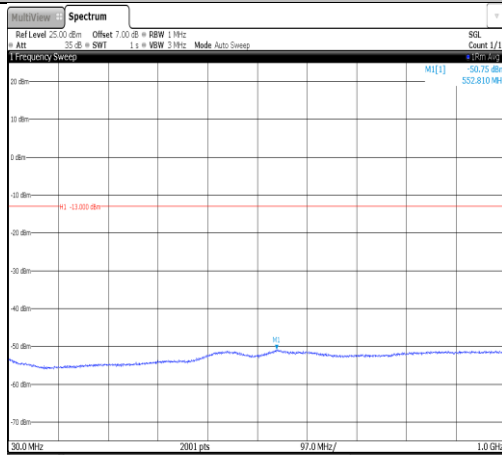
11:23:42 10.04.2024

Band2-9262-4-1000~20000MHz-PASS



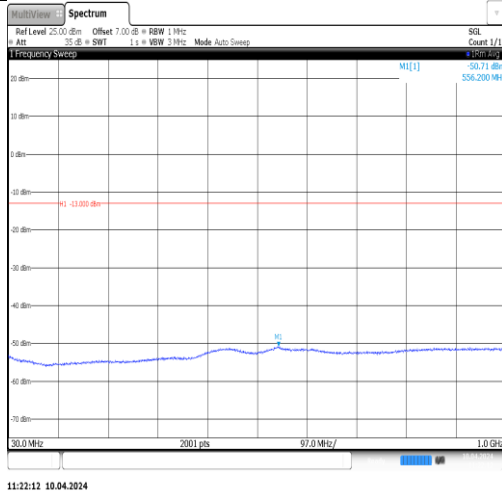
11:25:30 10.04.2024

Band2-9400-1-30~1000MHz-PASS



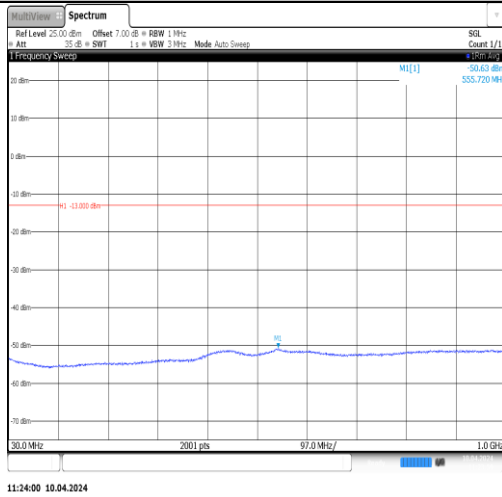
11:20:25 10.04.2024

Band2-9400-2-30~1000MHz-PASS



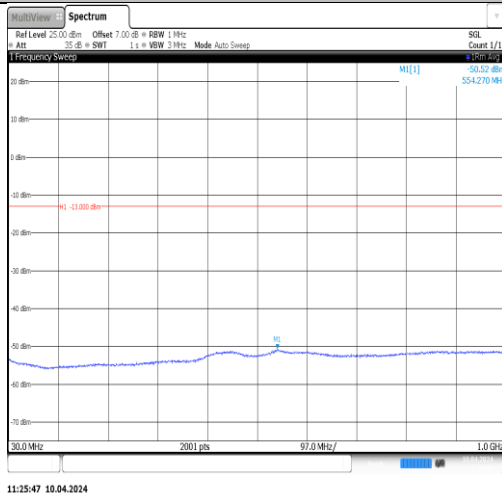
11:22:12 10.04.2024

Band2-9400-3-30~1000MHz-PASS



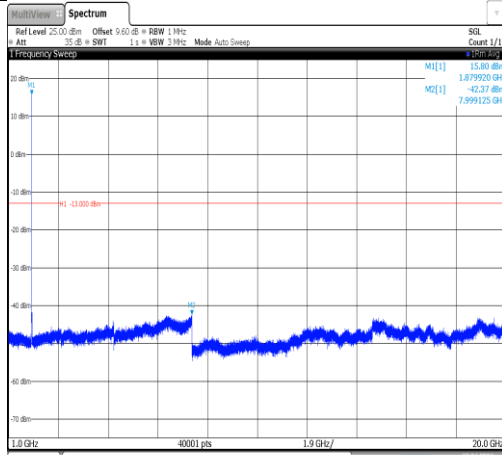
11:24:00 10.04.2024

Band2-9400-4-30~1000MHz-PASS



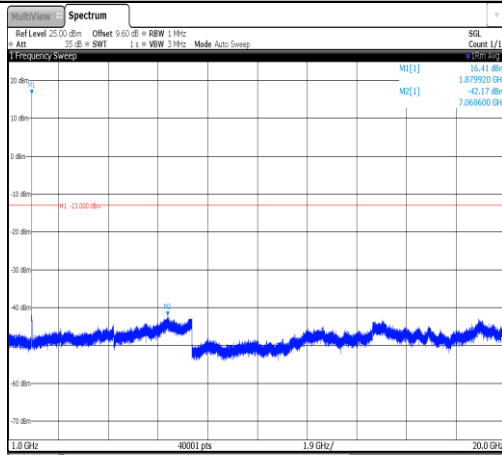
11:25:47 10.04.2024

Band2-9400-1-1000~20000MHz-PASS



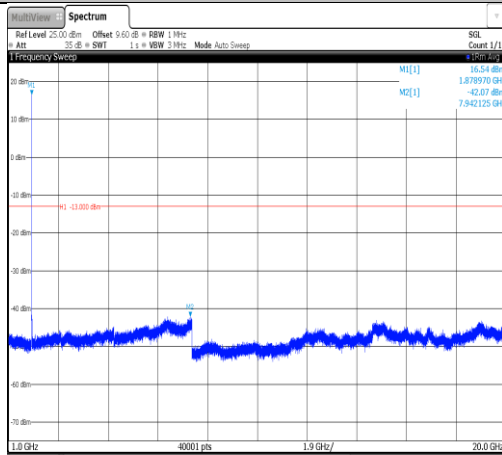
11:20:34 10.04.2024

Band2-9400-2-1000~20000MHz-PASS



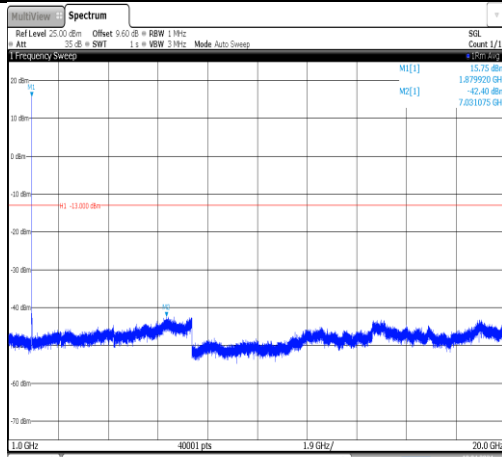
11:22:21 10.04.2024

Band2-9400-3-1000~20000MHz-PASS

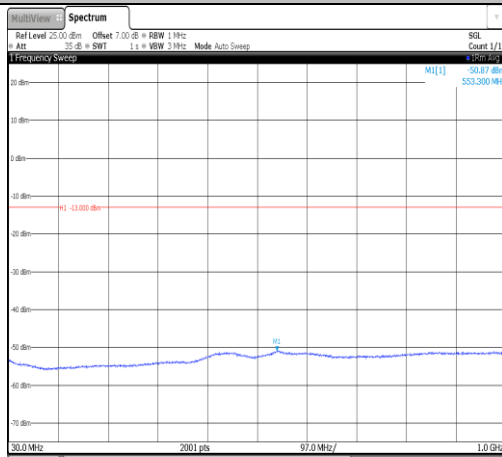


11:24:09 10.04.2024

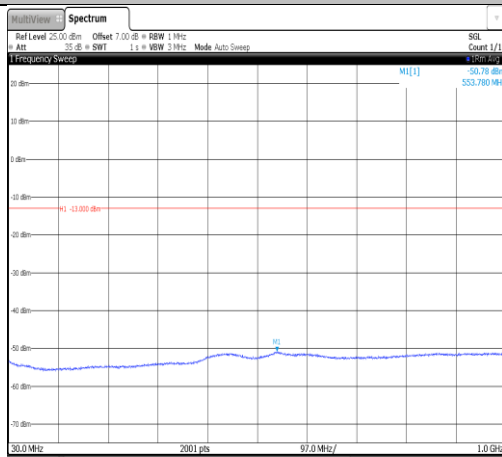
Band2-9400-4-1000~20000MHz-PASS



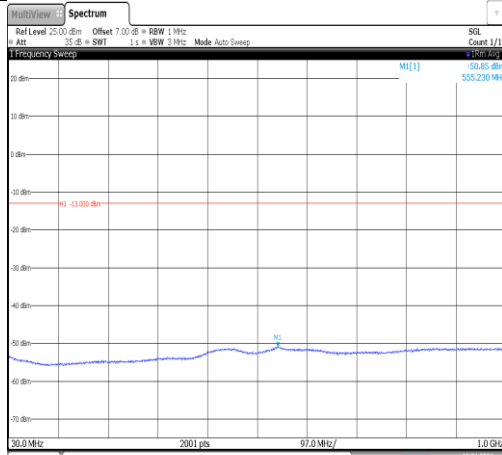
Band2-9538-1-30~1000MHz-PASS



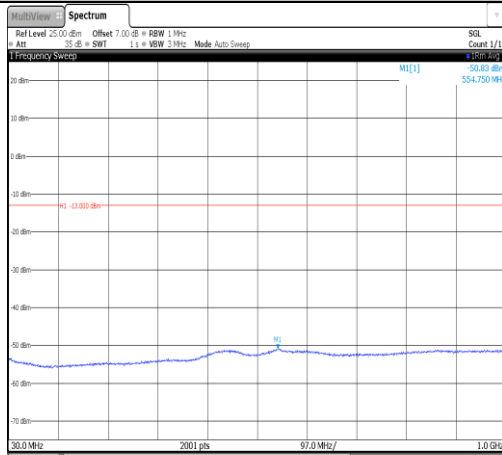
Band2-9538-2-30~1000MHz-PASS



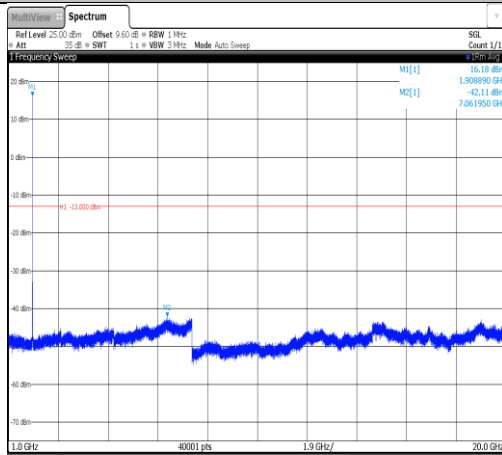
Band2-9538-3-30~1000MHz-PASS



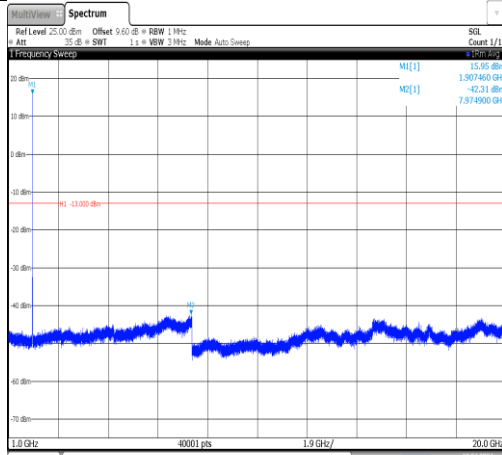
Band2-9538-4-30~1000MHz-PASS



Band2-9538-1-1000~20000MHz-PASS

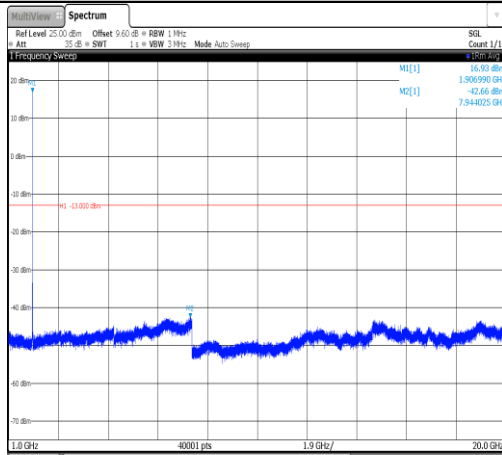


Band2-9538-2-1000~20000MHz-PASS



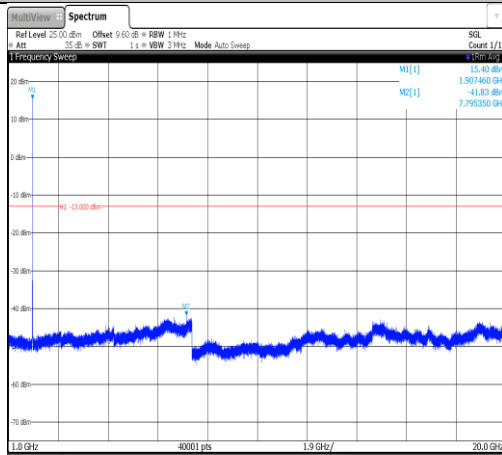
11:22:48 10.04.2024

Band2-9538-3-1000~20000MHz-PASS



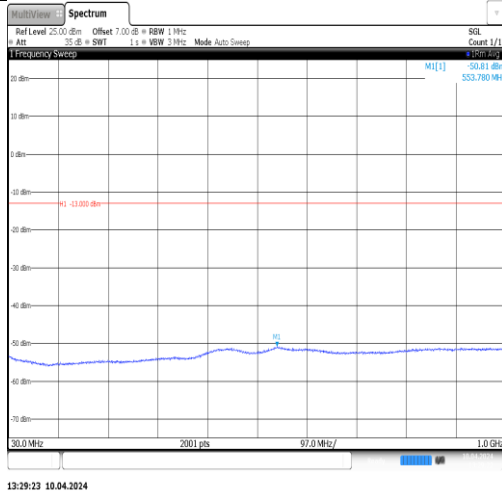
11:24:35 10.04.2024

Band2-9538-4-1000~20000MHz-PASS

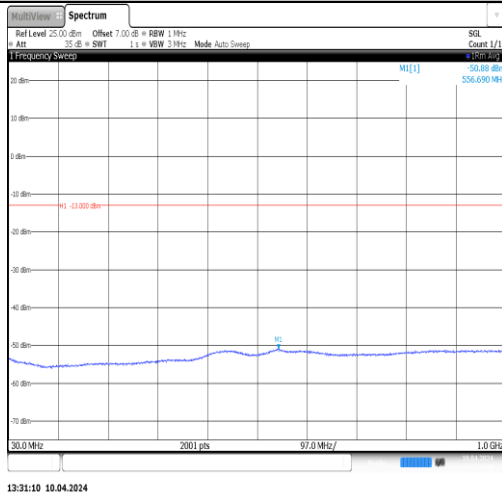


11:26:23 10.04.2024

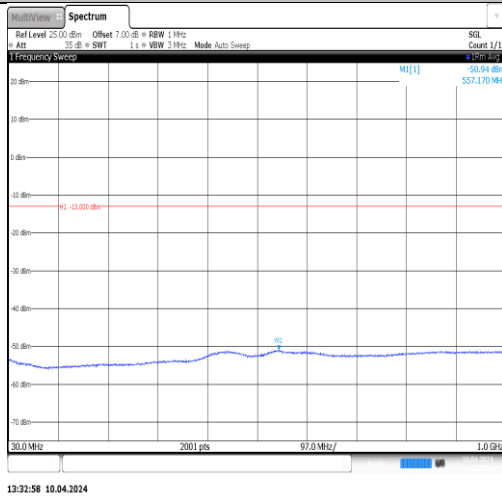
Band4-1312-1-30~1000MHz-PASS



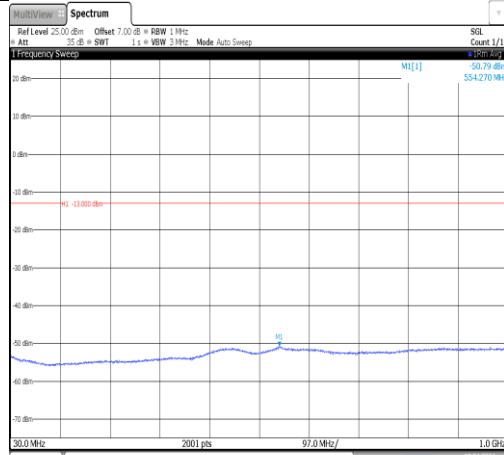
Band4-1312-2-30~1000MHz-PASS



Band4-1312-3-30~1000MHz-PASS

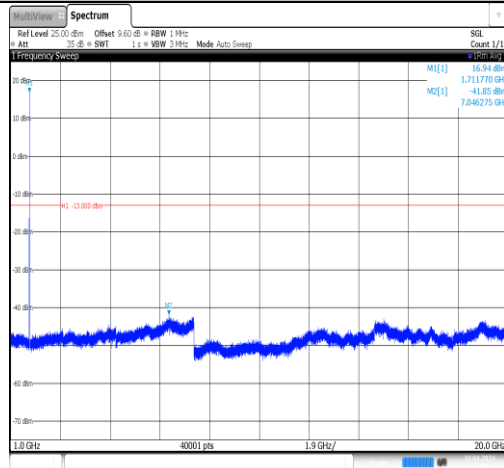


Band4-1312-4-30~1000MHz-PASS



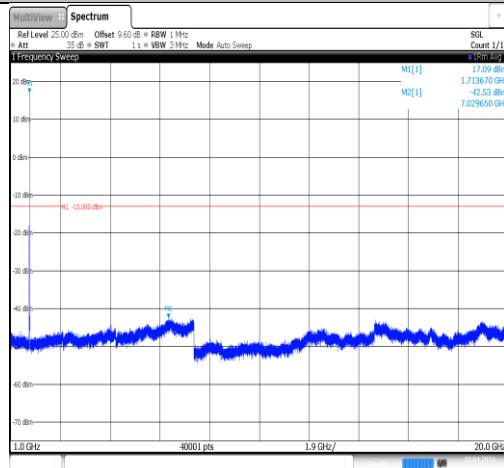
13:34:45 10.04.2024

Band4-1312-1-1000~20000MHz-PASS



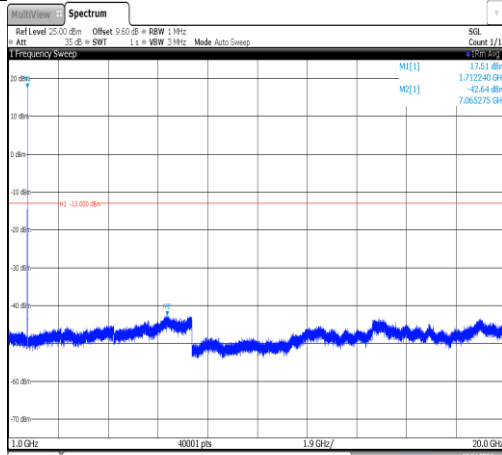
13:19:32 10.04.2024

Band4-1312-2-1000~20000MHz-PASS



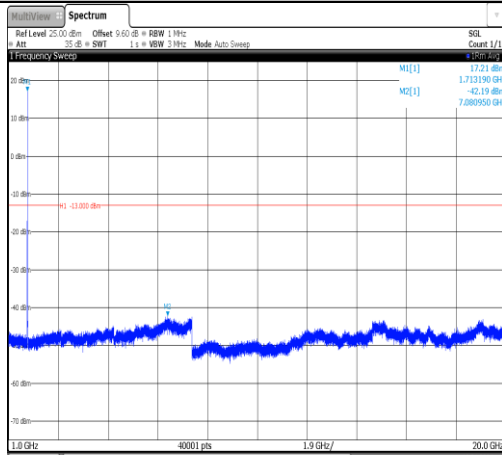
13:31:19 10.04.2024

Band4-1312-3-1000~20000MHz-PASS



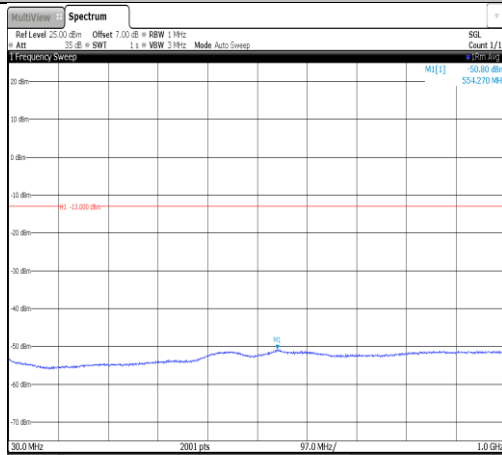
13:33:07 10.04.2024

Band4-1312-4-1000~20000MHz-PASS



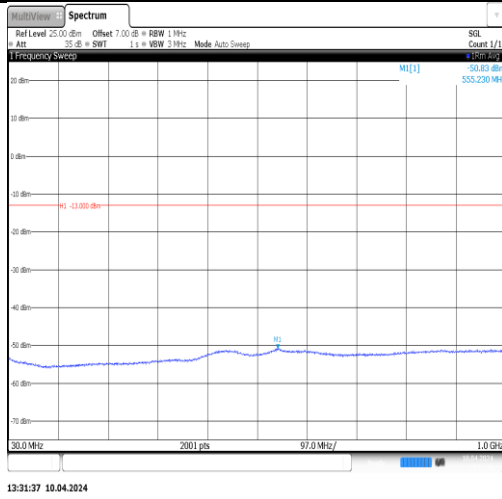
13:34:54 10.04.2024

Band4-1413-1-30~1000MHz-PASS

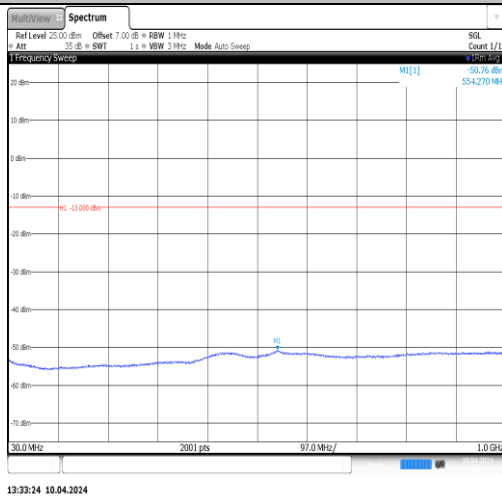


13:39:49 10.04.2024

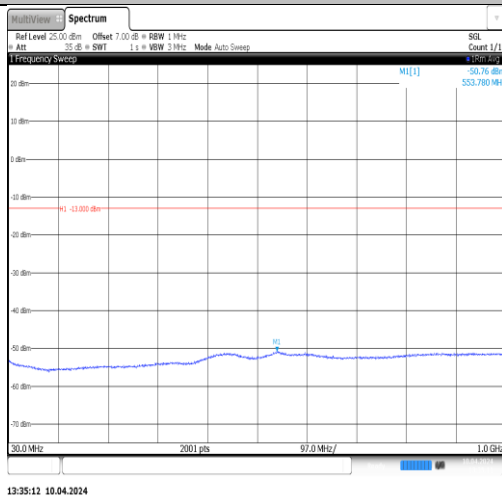
Band4-1413-2-30~1000MHz-PASS



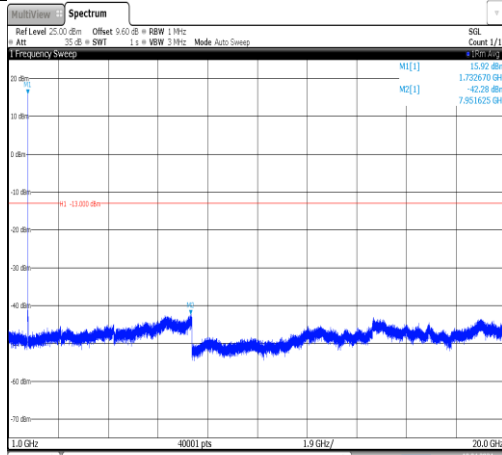
Band4-1413-3-30~1000MHz-PASS



Band4-1413-4-30~1000MHz-PASS

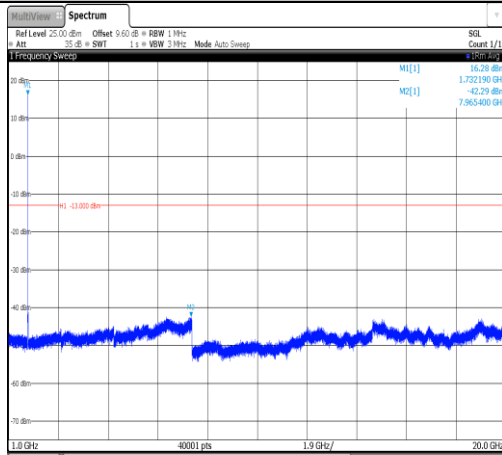


Band4-1413-1-1000~20000MHz-PASS



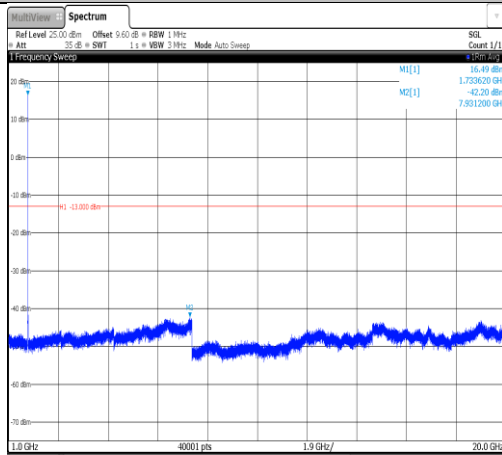
13:29:58 10.04.2024

Band4-1413-2-1000~20000MHz-PASS



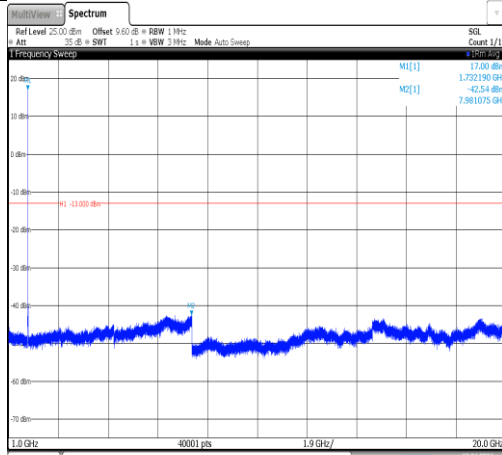
13:31:46 10.04.2024

Band4-1413-3-1000~20000MHz-PASS



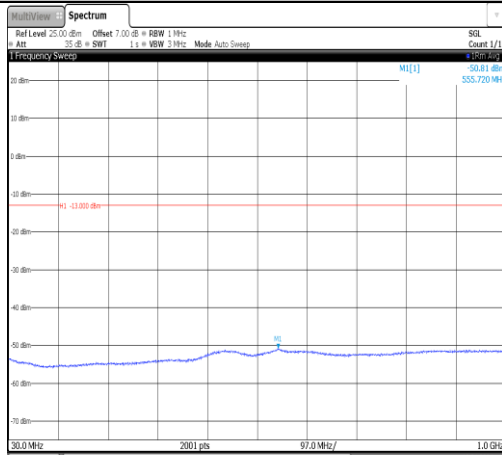
13:33:33 10.04.2024

Band4-1413-4-1000~20000MHz-PASS



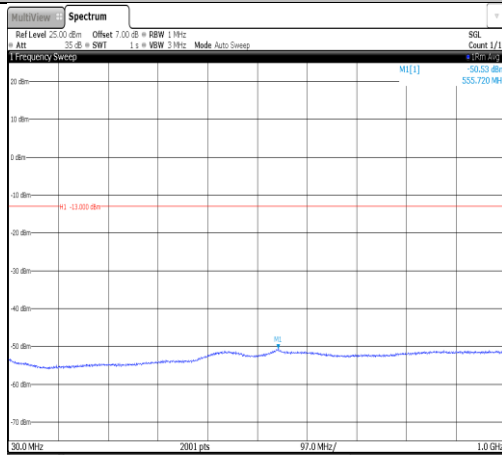
13:35:21 10.04.2024

Band4-1513-1-30~1000MHz-PASS



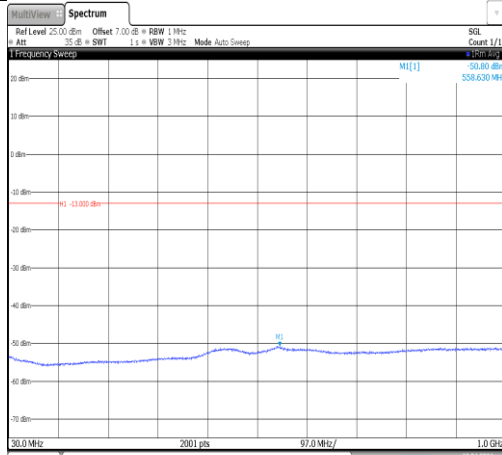
13:30:16 10.04.2024

Band4-1513-2-30~1000MHz-PASS

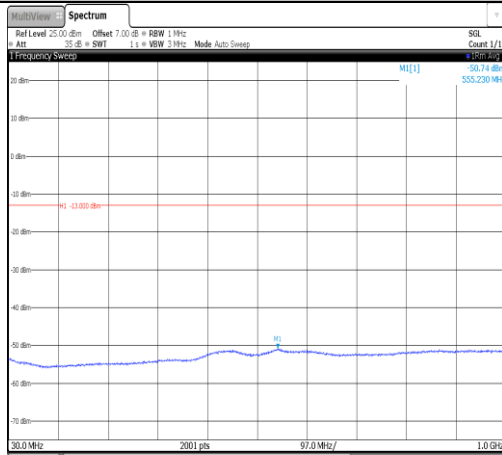


13:32:03 10.04.2024

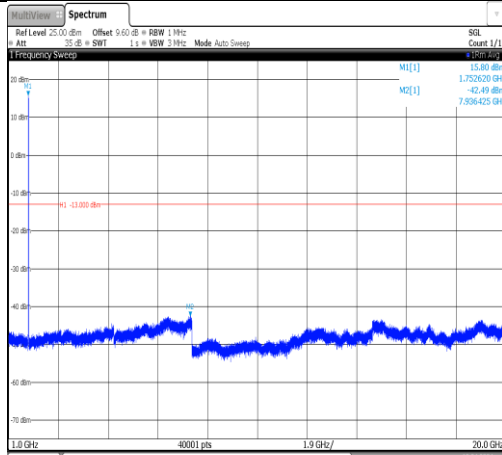
Band4-1513-3-30~1000MHz-PASS



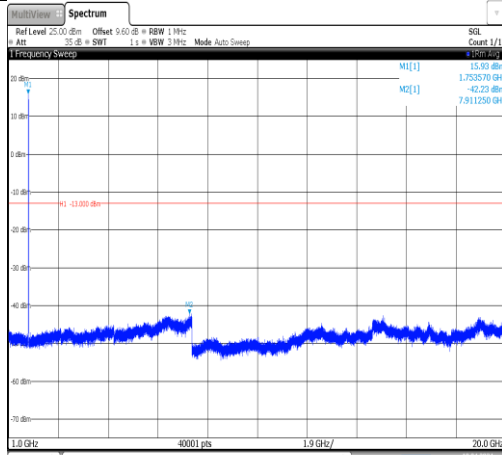
Band4-1513-4-30~1000MHz-PASS



Band4-1513-1-1000~20000MHz-PASS

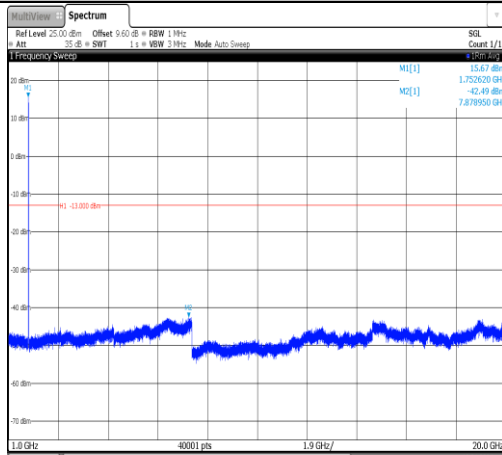


Band4-1513-2-1000~20000MHz-PASS



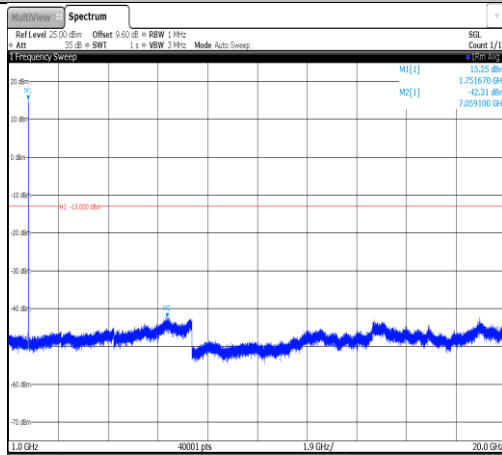
13:32:12 10.04.2024

Band4-1513-3-1000~20000MHz-PASS



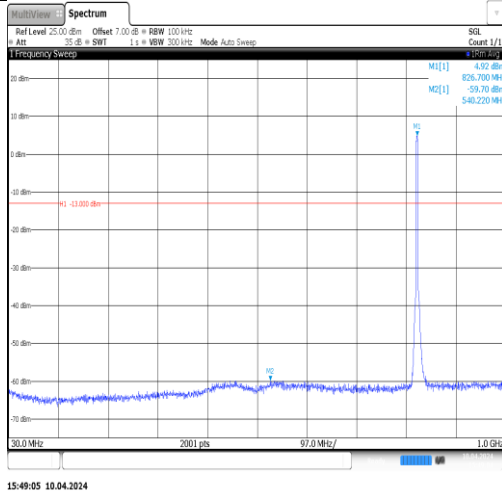
13:34:00 10.04.2024

Band4-1513-4-1000~20000MHz-PASS

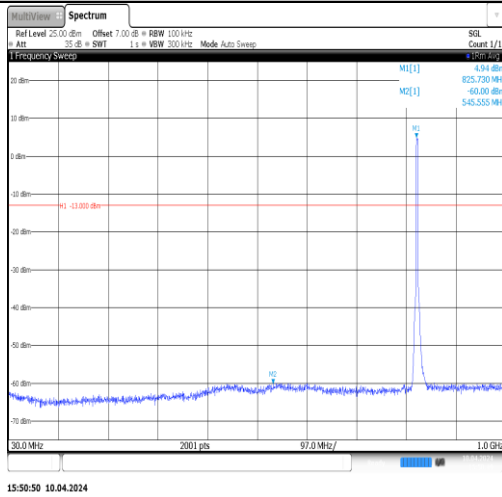


13:35:47 10.04.2024

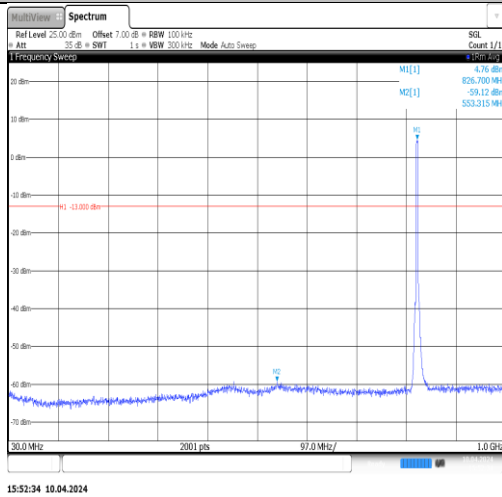
Band5-4132-1-30~1000MHz-PASS



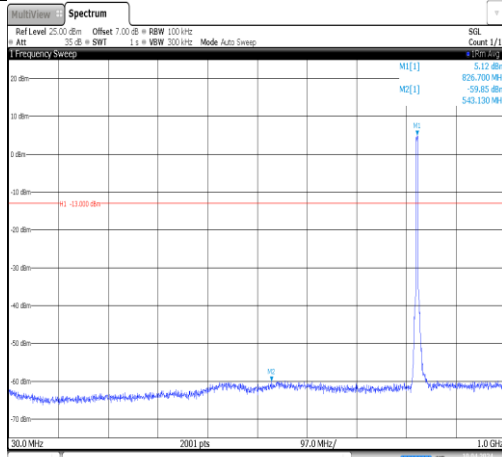
Band5-4132-2-30~1000MHz-PASS



Band5-4132-3-30~1000MHz-PASS

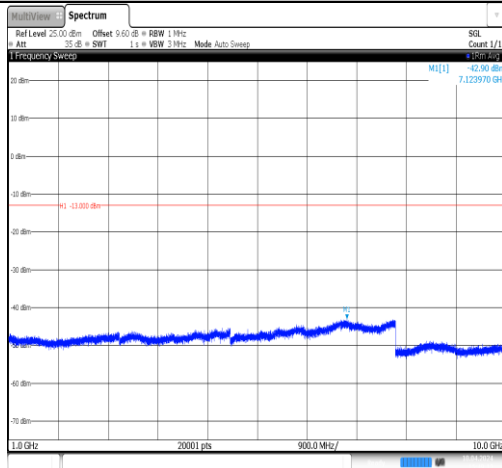


Band5-4132-4-30~1000MHz-PASS



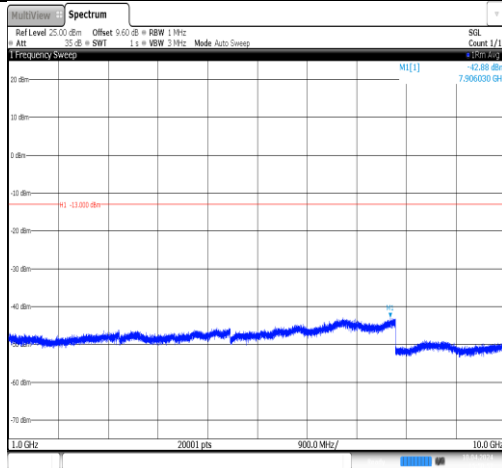
15:54:19 10.04.2024

Band5-4132-1-1000~10000MHz-PASS



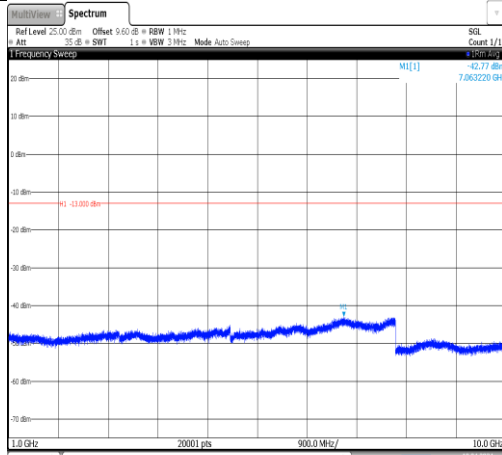
15:49:12 10.04.2024

Band5-4132-2-1000~10000MHz-PASS



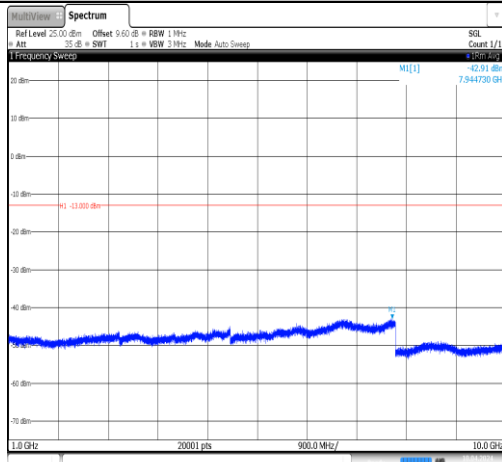
15:50:57 10.04.2024

Band5-4132-3-1000~10000MHz-PASS



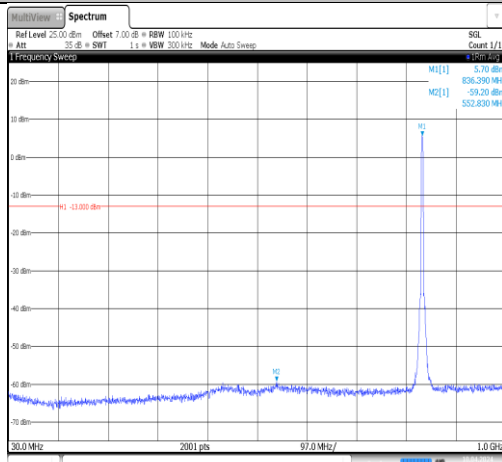
15:52:42 10.04.2024

Band5-4132-4-1000~10000MHz-PASS



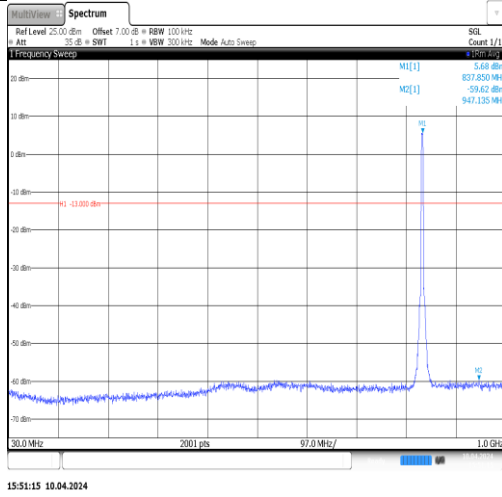
15:54:27 10.04.2024

Band5-4182-1-30~1000MHz-PASS

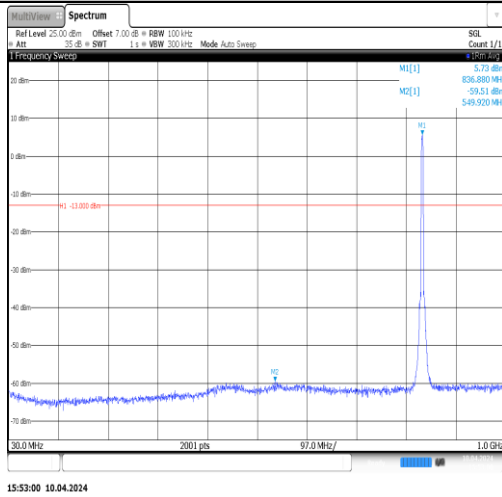


15:49:30 10.04.2024

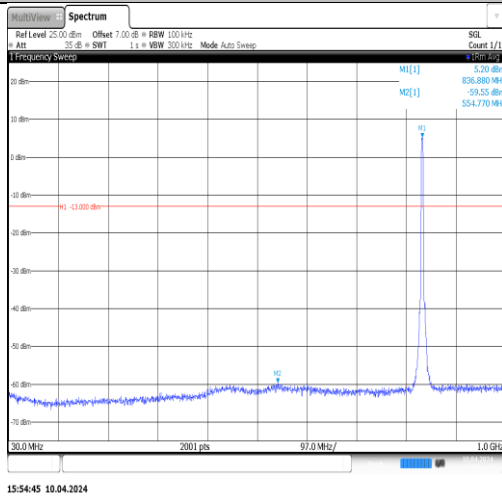
Band5-4182-2-30~1000MHz-PASS



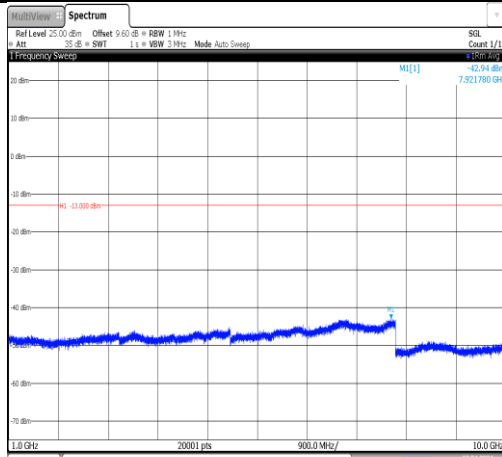
Band5-4182-3-30~1000MHz-PASS



Band5-4182-4-30~1000MHz-PASS

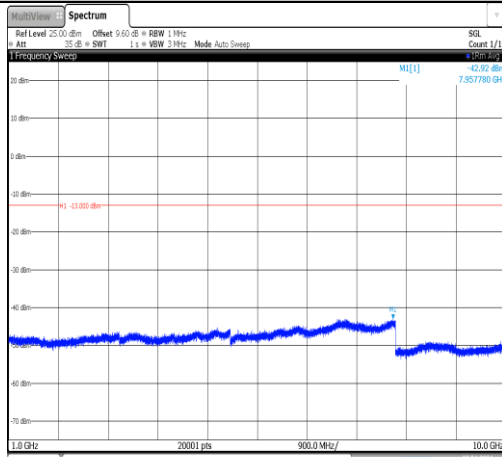


Band5-4182-1-1000~10000MHz-PASS



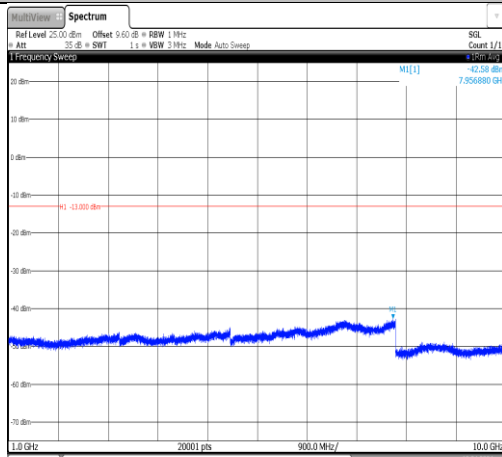
15:49:38 10.04.2024

Band5-4182-2-1000~10000MHz-PASS



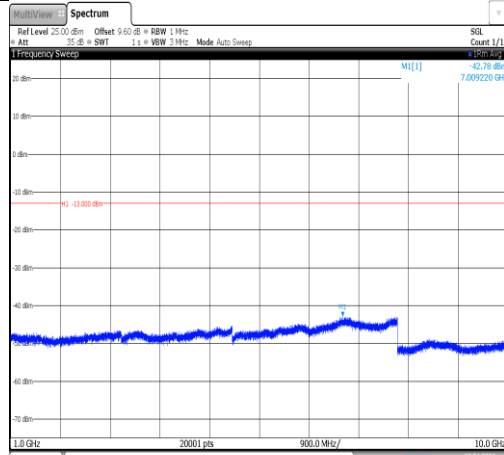
15:51:23 10.04.2024

Band5-4182-3-1000~10000MHz-PASS



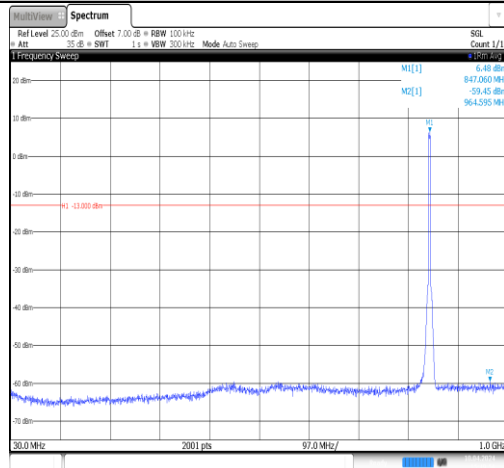
15:53:08 10.04.2024

Band5-4182-4-1000~10000MHz-PASS



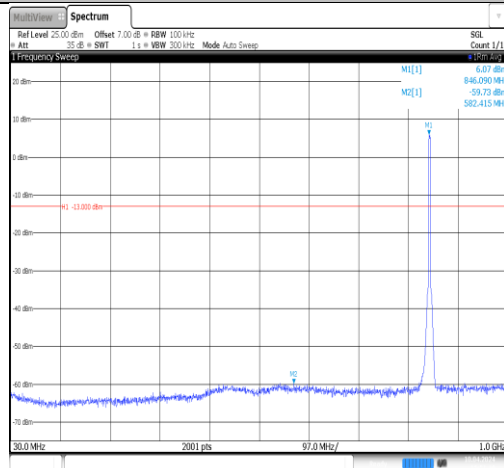
15:54:53 10.04.2024

Band5-4233-1-30~1000MHz-PASS



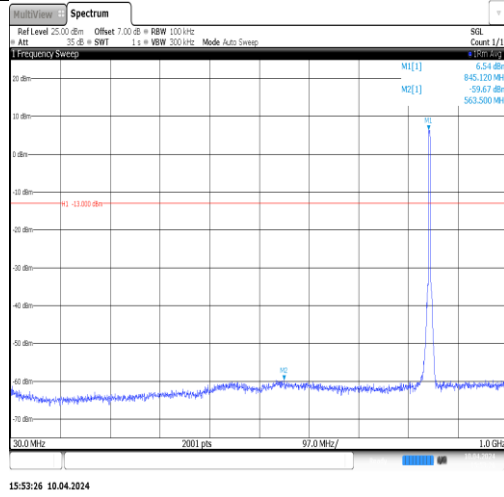
15:49:56 10.04.2024

Band5-4233-2-30~1000MHz-PASS

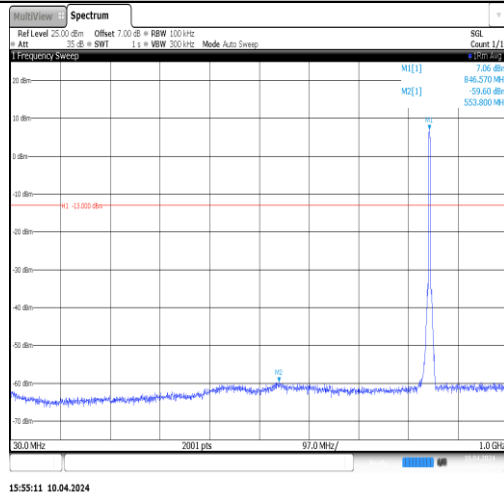


15:51:41 10.04.2024

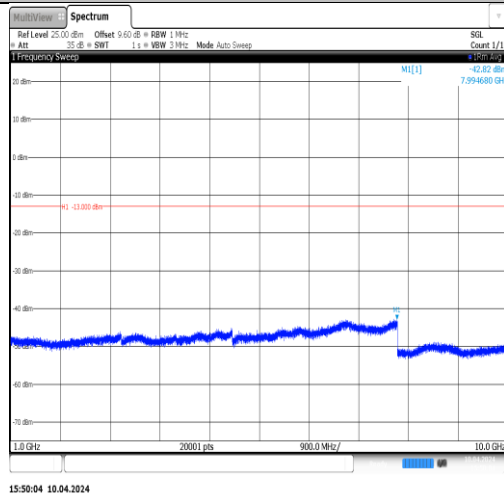
Band5-4233-3-30~1000MHz-PASS



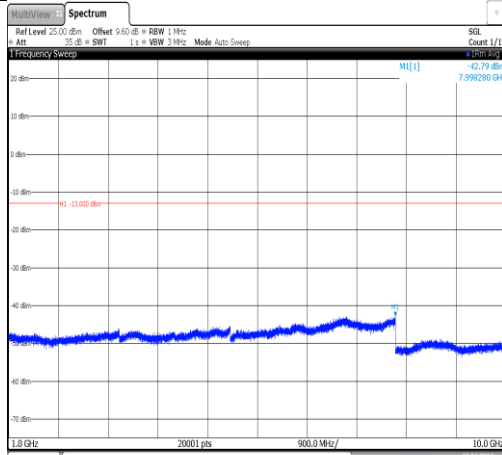
Band5-4233-4-30~1000MHz-PASS



Band5-4233-1-1000~10000MHz-PASS

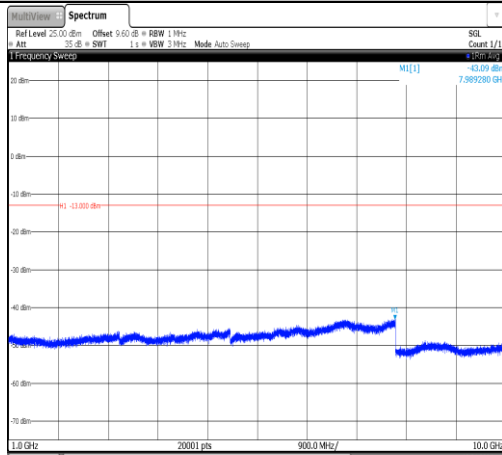


Band5-4233-2-1000~10000MHz-PASS



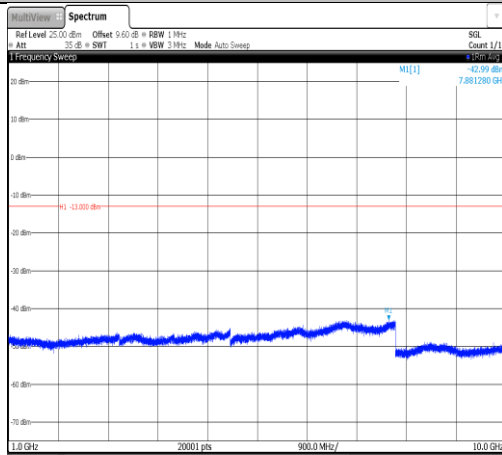
15:51:49 10.04.2024

Band5-4233-3-1000~10000MHz-PASS



15:53:34 10.04.2024

Band5-4233-4-1000~10000MHz-PASS



15:55:19 10.04.2024