

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: SHARP Corporation Mobile Communication BU
2-13-1 Iida Hachihonmatsu, Higashi-hiroshima city, Hiroshima,
739-0192, Japan

Manufacturer: Sharp Corporation
1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

Product Name: Smart Phone

Brand Name: SHARP

Report Number: TERF2404001029ER

FCC ID APYHRO00332

Date of EUT Received: April 18, 2024

Date of Test: April 18, 2024 ~ May 10, 2024

Issue Date: May 22, 2024

Approved By**Blue Yang****We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2 , 22H & 24E & 27 C.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2404001029ER	00	Original.	May 22, 2024	Karen Huang	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	Smart Phone
Brand Name:	SHARP
Hardware Version:	DVT
Firmware Version:	N/A
Power Supply:	3.89Vdc from Rechargeable Battery
Test Software (Name/Version)	Connect with call box

1.2 Operation Frequency Range

Operating Frequency (MHz)	
GSM / GPRS 850	824.2 - 848.8
GSM / GPRS 1900	1850.2 - 1909.8

Operating Frequency (MHz)	
WCDMA / HSPA+ Band II	1852.4 - 1907.6
WCDMA / HSPA+ Band IV	1712.4 - 1752.6
WCDMA / HSPA+ Band V	826.4 - 846.6

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1.3 Antenna Designation

Antenna Type	Antenna Model No.
Inverted-F Antenna	ANT2
	ANT3
Note: Transmission in frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)	
		ANT2	ANT3
GSM / GPRS 850	824.2 - 848.8	-	-3.9
GSM / GPRS 1900	1850.2 - 1909.8	-1.2	-
WCDMA / HSPA+ Band II	1852.4 - 1907.6	-1.2	-
WCDMA / HSPA+ Band IV	1712.4 - 1752.6	-3.1	-
WCDMA / HSPA+ Band V	826.4 - 846.6	-	-3.9

Note: Antenna information is provided by the applicant.

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1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

Mode	ERP / EIRP (dBm)		W	Type of Emission
GSM 850	26.83	ERP	0.482	244KGXW
GPRS 850	26.83	ERP	0.482	246KGXW
GSM 1900	28.31	EIRP	0.678	243KGXW
GPRS 1900	28.31	EIRP	0.678	244KGXW
Mode	ERP / EIRP (dBm)		W	Type of Emission
WCDMA Band II	21.21	EIRP	0.132	4M15F9W
HSDPA Band II	20.62	EIRP	0.115	4M15F9W
HSUPA Band II	20.66	EIRP	0.116	4M14F9W
WCDMA Band IV	19.26	EIRP	0.084	4M15F9W
HSDPA Band IV	18.88	EIRP	0.077	4M16F9W
HSUPA Band IV	18.86	EIRP	0.077	4M15F9W
WCDMA Band V	17.02	ERP	0.050	4M14F9W
HSDPA Band V	16.14	ERP	0.041	4M14F9W
HSUPA Band V	16.08	ERP	0.041	4M69F9W

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

KDB412172 D01 Determining ERP and EIRP v01r01

TS 151 010-1 is used to set, and measure the output power.

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

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1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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2.5 Final Amplifier Voltage and Current Information:

Test mode	DC voltage (V)	DC current (mA)
GSM 850	3.89	580
GPRS 850	3.89	570
GSM 1900	3.89	590
GPRS 1900	3.89	590
WCDMA B2	3.89	640
HSUPA B2	3.89	630
HSDPA B2	3.89	620
WCDMA B4	3.89	620
HSUPA B4	3.89	660
HSDPA B4	3.89	610
WCDMA B5	3.89	620
HSUPA B5	3.89	610
HSDPA B5	3.89	590

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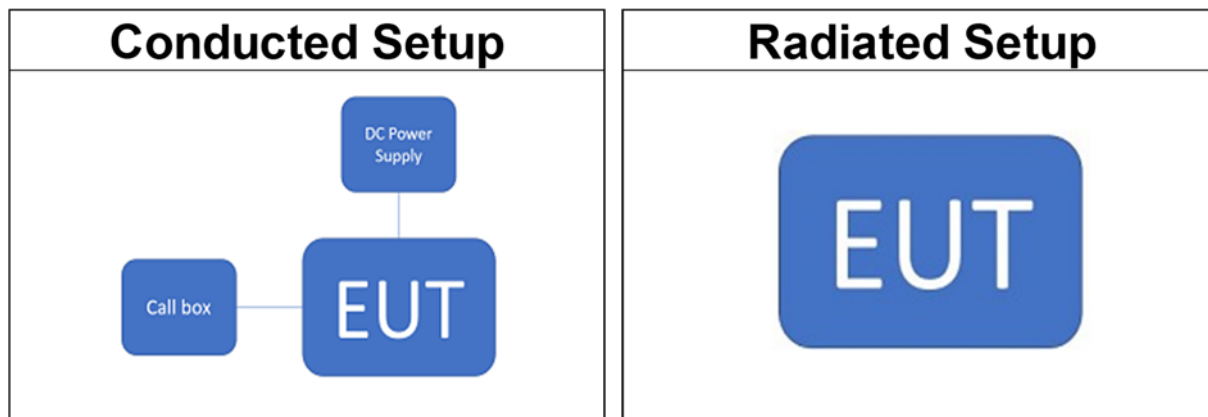
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3 TEST CONFIGURATION



Note: Radio Communication Analyzer is placed in remote side for radiated test.

3.1 Control Unit(s)

N/A

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4 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(d)(4)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(h)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	Compliant
§22.913(d) §24.232(d) §27.50(a)(1)(B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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5 DESCRIPTION OF TEST MODES

5.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

5.2 Measurement Configuration

RADIATED EMISSION	GSM Bands	Test Channel			Test Items	WCDMA / HSPA Bands	Test Channel		
		L	M	H			L	M	H
ERP	850	v	v	v	ERP	Band V	v	v	v
EIRP	1900	v	v	v	EIRP	Bnad II	v	v	v
FREQUENCY STABILITY	850	-	v	-		Band IV	v	v	v
	1900	-	v	-	FREQUENCY STABILITY	Bnad II	-	v	-
OCCUPIED BANDWIDTH	850	v	v	v		Band IV	-	v	-
	1900	v	v	v		Band V	-	v	-
PEAK TO AVERAGE RATIO	850	v	v	v	OCCUPIED BANDWIDTH	Bnad II	v	v	v
	1900	v	v	v		Band IV	v	v	v
BAND EDGE	850	v	-	v		Band V	v	v	v
	1900	v	-	v	PEAK TO AVERAGE RATIO	Bnad II	v	v	v
CONDCUDED EMISSION	850	v	v	v		Band IV	v	v	v
	1900	v	v	v		Band V	v	v	v
RADIATED EMISSION	850	v	v	v	BAND EDGE	Bnad II	v	-	v
	1900	v	v	v		Band IV	v	-	v
						Band V	v	-	v
					CONDCUDED EMISSION	Bnad II	v	v	v
						Band IV	v	v	v
						Band V	v	v	v
					RADIATED EMISSION	Bnad II	v	v	v
						Band IV	v	v	v
						Band V	v	v	v

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6 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Power Density	+/- 0.61 dB
RF Power Output	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.15 dB
	+/- 2.15 dB
Emission Bandwidth	+/- 1.38 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.77 dB
Peak to Average Ratio	+/- 0.97 dB
Frequency Stability vs. Temperature	+/- 1.48 Hz
Frequency Stability vs. Voltage	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

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

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7 MEASUREMENT EQUIPMENT USED

7.1 Conducted Measurement

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Gwinstek	SPS-3610	GEV856733	12/04/2023	12/03/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/18/2023	12/17/2024
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/21/2024	04/20/2025
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/24/2023	05/23/2024
Test Software	WORLD PALLAS	Dr.E	Ver. 3.0	N.C.R	N.C.R
Attenuator	Mini-Circuits	BW-S10W2+	12	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	8	12/12/2023	12/11/2024
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/12/2023	12/11/2024

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7.2 Radiated Measurement

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/21/2023	07/20/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/11/2023	05/10/2024
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/28/2023	12/27/2024
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/03/2023	07/02/2024
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/16/2024	02/15/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/04/2024	03/03/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/22/2023	12/21/2024
Network Analyzer	Anritsu	MS4644A	1216312	12/07/2023	12/06/2024
Radio Communication Analyzer	Anritsu	MT8815A	6200429620	01/15/2024	01/14/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
Site Cal	SGS	SAC 2	N/A	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC184045B	980135	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2023	08/30/2024
2G High Pass Filter	Micro-Tronics	HPM50110	36	12/12/2023	12/11/2024
1G High Pass Filter	Micro-Tronics	HPM50108	32	12/12/2023	12/11/2024
Band Reject Filter 800-1000	EWT	EWT-54-0037	M3R	12/12/2023	12/11/2024
Band Reject Filter 1700-2000	EWT	EWT-54-0038	M1	12/12/2023	12/11/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/31/2023	08/30/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+22962/2	08/31/2023	08/30/2024
Coaxial Cables	EMCI	EMC104-SM-SM-1000+EMC105-SM-SM-1000+EMC105-SM-SM-1500+EMC104-SM-SM-600+EMC105-SM-SM-2000	RX Cable 9K-18G (220236+201211+220906+220237+220909)	08/31/2023	08/30/2024

NOTE: N.C.R refers to Not Calibrated Required.

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8 MAXIMUM OUTPUT POWER

8.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

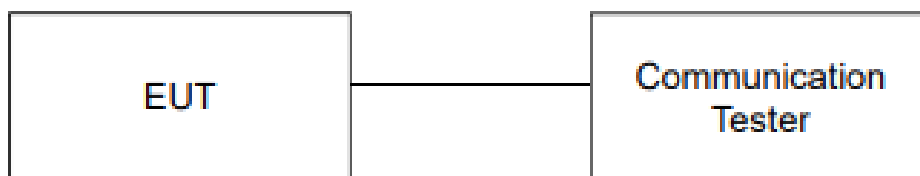
FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

8.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

8.3 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a communication tester.

Transmitter output was read off the communication tester in dBm.

The power output at the transmitter antenna port was determined by adding the value of the attenuator to the communication tester reading.

TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and RMC 12.2kps is used for Base station setting.

KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

Conducted average power is obtained from the simulator telecommunication test set.

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8.4 Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
- P_T = transmitter output power, expressed in dBW, dBm, or PSD;
- G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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8.5 Measurement Results

8.5.1 GSM

GSM/GPRS (GMSK; 8-PSK) Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
GSM 850	824.2	128	32.88	-3.90	26.83	28.98	38.50	-9.52
	836.6	190	32.69	-3.90	26.64	28.79	38.50	-9.71
	848.8	251	32.55	-3.90	26.50	28.65	38.50	-9.85
GSM 1900	1850.2	512	29.49	-1.20	26.14	28.29	33.00	-4.71
	1880.0	661	29.51	-1.20	26.16	28.31	33.00	-4.69
	1909.8	810	29.32	-1.20	25.97	28.12	33.00	-4.88
GPRS 850	824.2	128	32.88	-3.90	26.83	28.98	38.50	-9.52
	836.6	190	32.69	-3.90	26.64	28.79	38.50	-9.71
	848.8	251	32.55	-3.90	26.50	28.65	38.50	-9.85
GPRS 1900	1850.2	512	29.49	-1.20	26.14	28.29	33.00	-4.71
	1880.0	661	29.51	-1.20	26.16	28.31	33.00	-4.69
	1909.8	810	29.32	-1.20	25.97	28.12	33.00	-4.88

EUT Mode	Frequency (MHz)	CH	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	32.88	30.30	29.39	27.00
	836.6	190	32.69	30.22	28.45	27.66
	848.8	251	32.55	30.18	28.47	27.71
GPRS 1900	1850.2	512	29.49	27.47	26.30	25.00
	1880.0	661	29.51	27.35	26.29	24.93
	1909.8	810	29.32	27.46	26.39	24.84

8.5.2 WCDMA & HSPA Measurement Results:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm. RMC 12.2kps is used for this testing.

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WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	22.34	-1.20	18.99	21.14	33.00	-11.86
	1880.0	9400	22.41	-1.20	19.06	21.21	33.00	-11.79
	1907.6	9538	22.14	-1.20	18.79	20.94	33.00	-12.06
HSDPA	1852.4	9262	21.74	-1.20	18.39	20.54	33.00	-12.46
	1880.0	9400	21.82	-1.20	18.47	20.62	33.00	-12.38
	1907.6	9538	21.71	-1.20	18.36	20.51	33.00	-12.49
HSUPA	1852.4	9262	21.74	-1.20	18.39	20.54	33.00	-12.46
	1880.0	9400	21.76	-1.20	18.41	20.56	33.00	-12.44
	1907.6	9538	21.86	-1.20	18.51	20.66	33.00	-12.34

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	22.28	-3.10	17.03	19.18	30.00	-10.82
	1732.6	1413	22.29	-3.10	17.04	19.19	30.00	-10.81
	1752.6	1513	22.36	-3.10	17.11	19.26	30.00	-10.74
HSDPA	1712.4	1312	21.98	-3.10	16.73	18.88	30.00	-11.12
	1732.6	1413	21.93	-3.10	16.68	18.83	30.00	-11.17
	1752.6	1513	21.85	-3.10	16.60	18.75	30.00	-11.25
HSUPA	1712.4	1312	21.96	-3.10	16.71	18.86	30.00	-11.14
	1732.6	1413	21.81	-3.10	16.56	18.71	30.00	-11.29
	1752.6	1513	21.91	-3.10	16.66	18.81	30.00	-11.19

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.02	-3.90	16.97	19.12	38.50	-19.38
	836.6	4183	23.07	-3.90	17.02	19.17	38.50	-19.33
	846.6	4233	22.96	-3.90	16.91	19.06	38.50	-19.44
HSDPA	826.4	4132	22.05	-3.90	16.00	18.15	38.50	-20.35
	836.6	4183	22.04	-3.90	15.99	18.14	38.50	-20.36
	846.6	4233	22.19	-3.90	16.14	18.29	38.50	-20.21
HSUPA	826.4	4132	22.11	-3.90	16.06	18.21	38.50	-20.29
	836.6	4183	22.04	-3.90	15.99	18.14	38.50	-20.36
	846.6	4233	22.13	-3.90	16.08	18.23	38.50	-20.27

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8.5.3 HSPA (HSDPA & HSUPA) Release 6:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing.

8.5.4 HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Avg. Power (dBm) Channel		
		9262	9400	9538
HSDPA II	1	21.74	21.82	21.71
	2	21.67	21.76	21.74
	3	21.30	21.28	21.26
	4	21.24	21.35	21.21
Mode	Sub test	Avg. Power (dBm) Channel		
		1312	1413	1513
HSDPA IV	1	21.98	21.93	21.85
	2	21.86	21.88	21.82
	3	21.32	21.46	21.33
	4	21.47	21.32	21.33

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132	4183	4233
HSDPA V	1	22.05	22.04	22.19
	2	22.18	22.20	22.06
	3	21.59	21.58	21.63
	4	21.62	21.57	21.59

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8.5.5 HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262	9400	9538
HSUPA II	1	21.74	21.76	21.86
	2	19.85	19.82	19.68
	3	20.77	20.76	20.79
	4	19.79	19.70	19.74
	5	21.74	21.80	21.68
Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312	1413	1513
HSUPA IV	1	21.96	21.81	21.91
	2	19.82	19.98	19.82
	3	20.90	20.83	20.96
	4	19.97	19.91	19.94
	5	21.81	21.82	21.98

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132	4183	4233
HSUPA V	1	22.11	22.04	22.13
	2	20.04	20.08	20.07
	3	21.18	21.08	21.12
	4	20.06	20.09	20.02
	5	22.04	22.19	22.13

8.5.6 WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm then record the read. The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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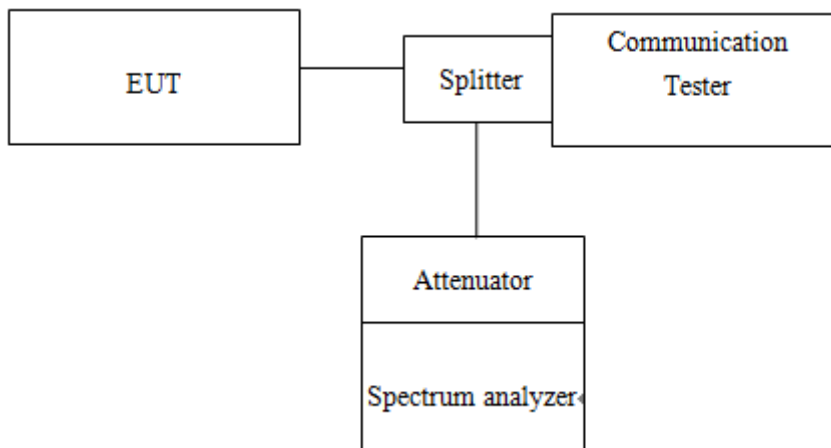
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9 OCCUPIED BANDWIDTH MEASUREMENT

9.1 Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

9.2 Test Set-up



9.3 Measurement Procedure

99% & 26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 * RBW, with span > 2 * Signal BW, set % Power = 99%.

9.4 Measurement Result

Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		GSM 850	GPRS 850	GSM 850	GPRS 850
824.2	128	0.24332	0.24579	0.31230	0.31750
836.6	190	0.24250	0.24151	0.31910	0.31980
848.8	251	0.24433	0.24548	0.31350	0.32090

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Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		GSM 1900	GPRS 1900	GSM 1900	GPRS 1900
1850.2	512	0.24120	0.24171	0.31950	0.31710
1880.0	661	0.24325	0.24144	0.31270	0.32170
1909.8	810	0.24012	0.24434	0.30800	0.31970

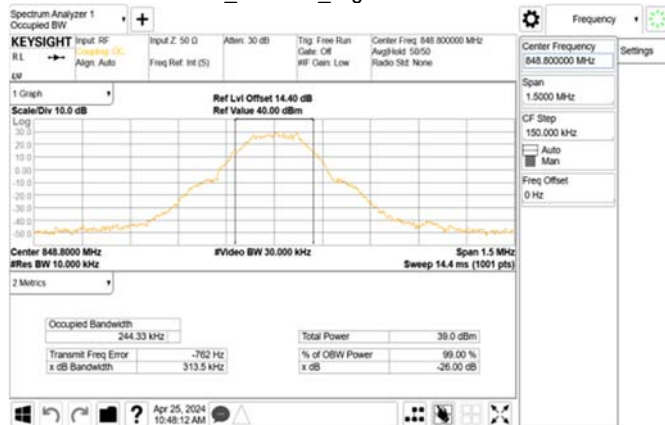
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.14740	4.14840	4.14400	4.699	4.693	4.679
1880.00	9400	4.14430	4.13790	4.14070	4.704	4.710	4.675
1907.60	9538	4.14960	4.14660	4.13700	4.711	4.695	4.669
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.14570	4.14630	4.13920	4.708	4.683	4.683
1732.60	1413	4.14280	4.16320	4.15010	4.709	4.703	4.679
1752.60	1513	4.15200	4.15070	4.13860	4.704	4.704	4.677
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.13850	4.13110	4.69000	4.749	4.685	4.134
836.60	4183	4.13480	4.13560	4.67500	4.703	4.688	4.117
846.60	4233	4.14130	4.14020	4.67700	4.739	4.690	4.135

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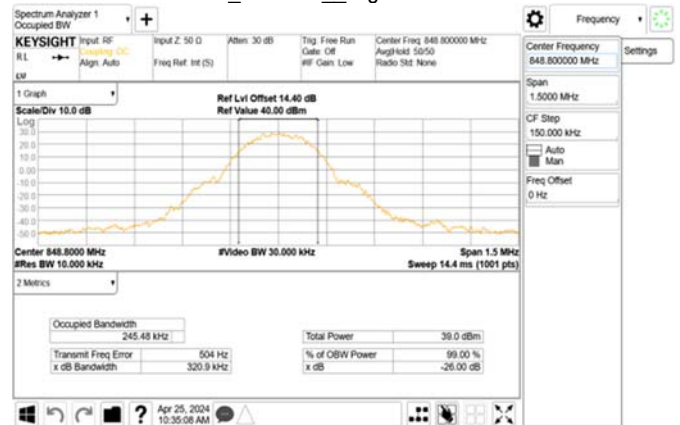
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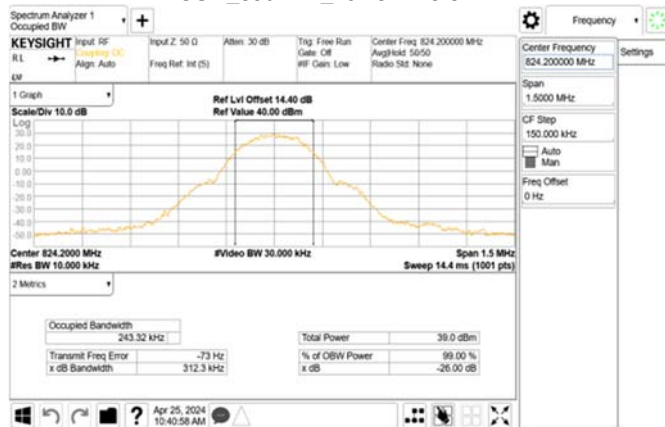
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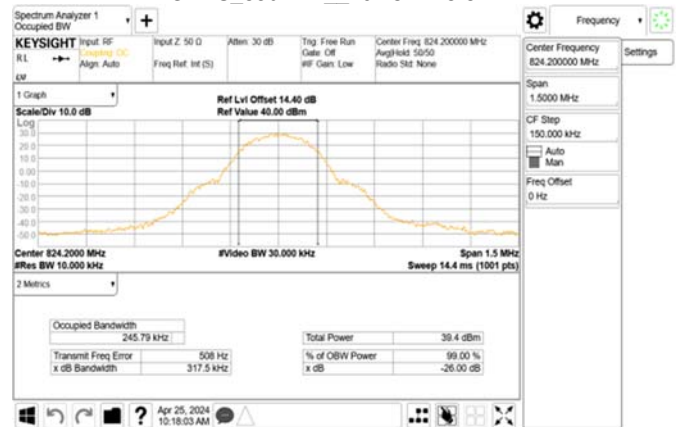
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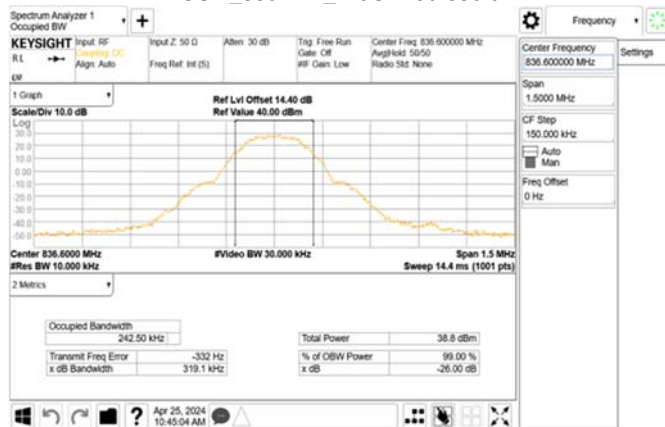
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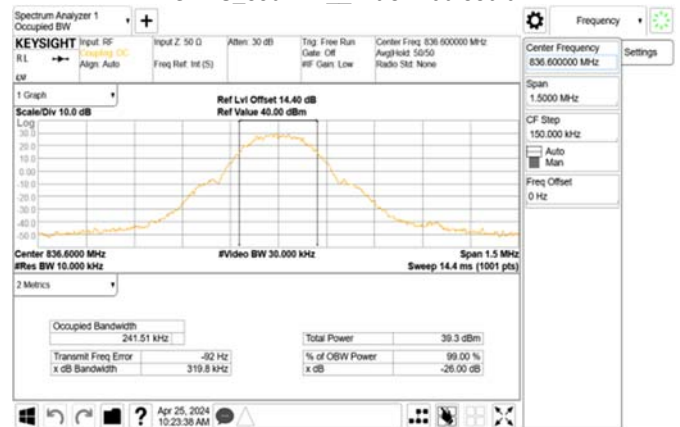
GPRS_850MHz_LowCH128-824.2



GSM_850MHz_MidCH190-836.6



GPRS_850MHz_MidCH190-836.6



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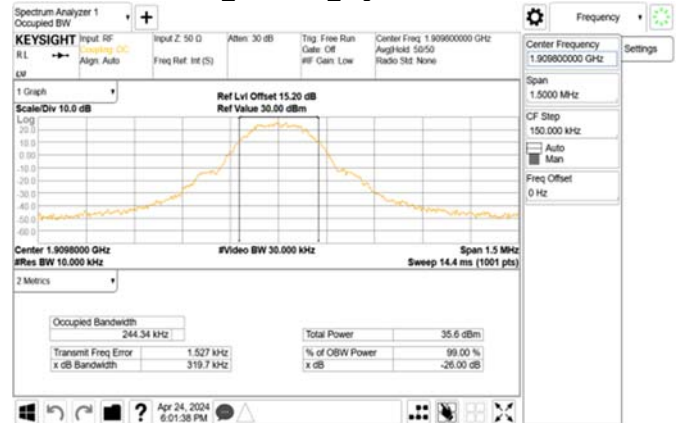
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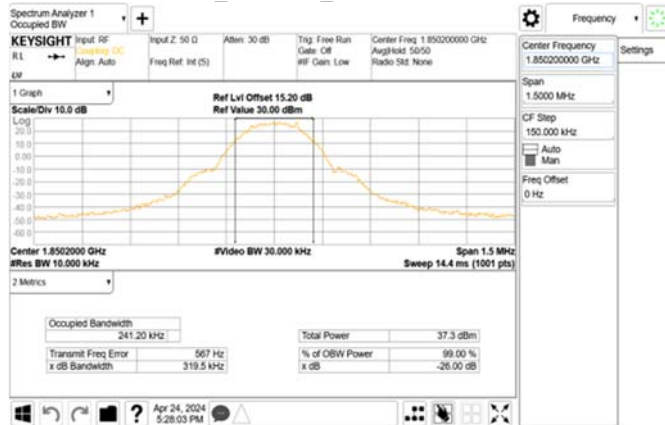
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GPMS_1900MHz_HighCH810-1909.8



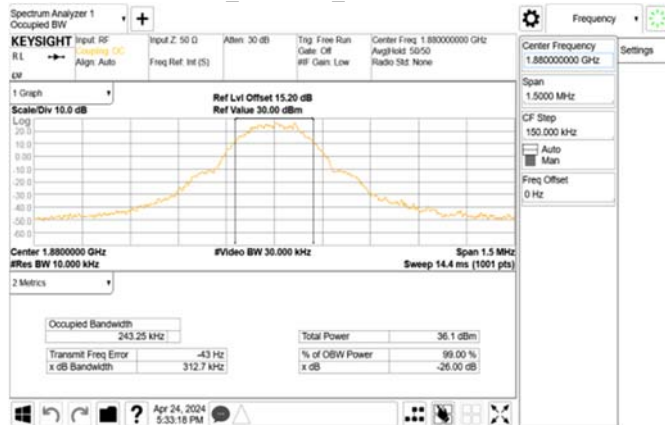
GSM_1900MHz_LowCH512-1850.2



GPMS_1900MHz_LowCH512-1850.2



GSM_1900MHz_MidCH661-1880



GPMS_1900MHz_MidCH661-1880



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WCDMA_B2_HighCH9538-1907.6



HSDPA_B2_HighCH9538-1907.6



WCDMA_B2_LowCH9262-1852.4



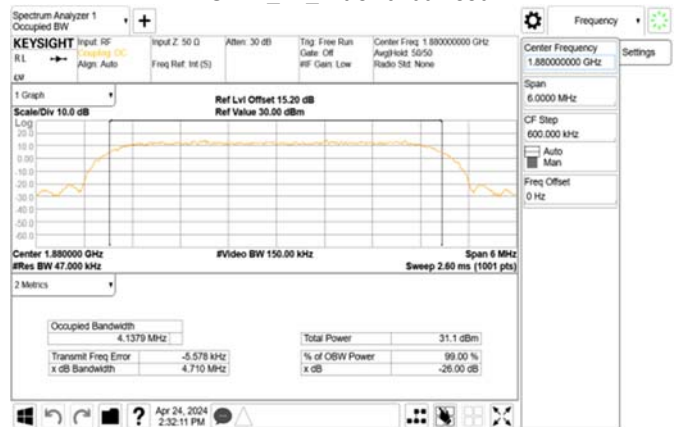
HSDPA_B2_LowCH9262-1852.4



WCDMA_B2_MidCH9400-1880



HSDPA_B2_MidCH9400-1880



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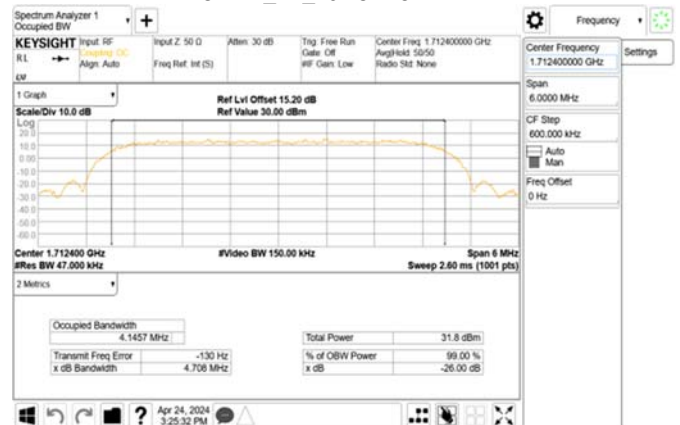
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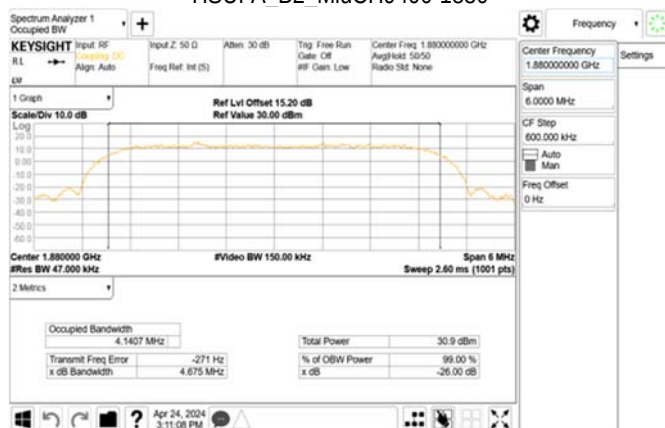
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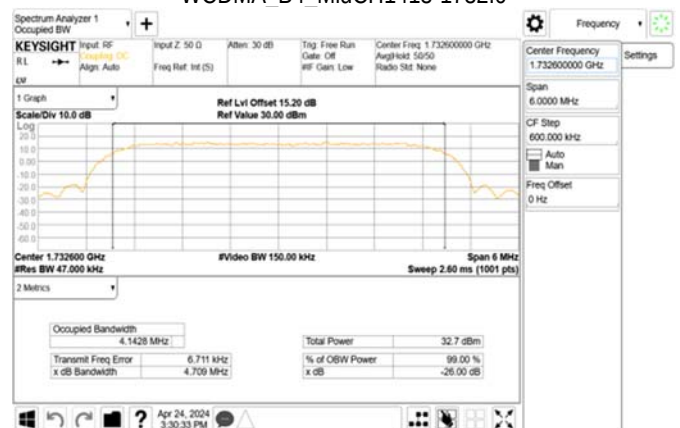
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HSUPA_B2_MidCH9400-1880



WCDMA_B4_MidCH1413-1732.6



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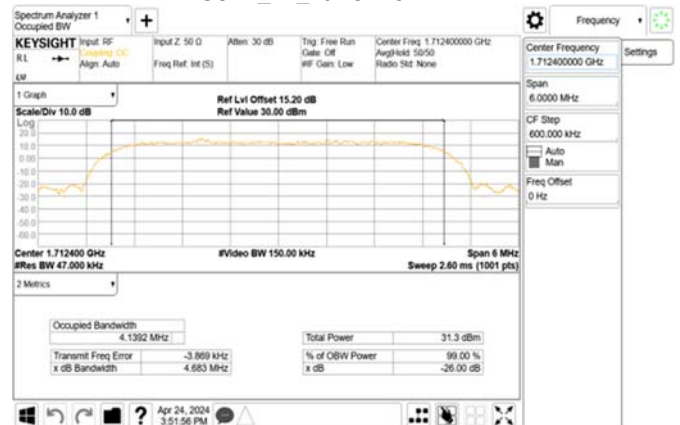
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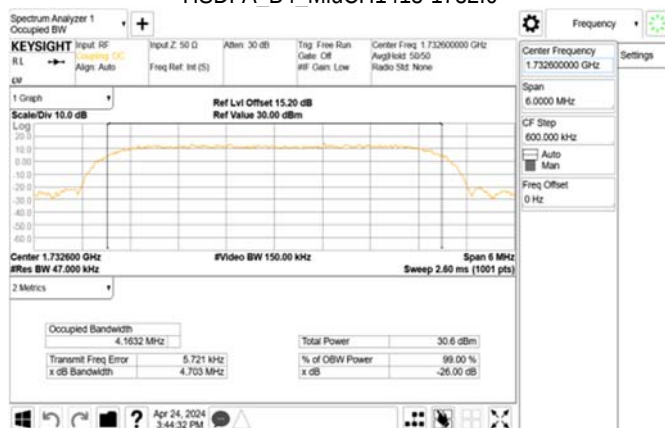
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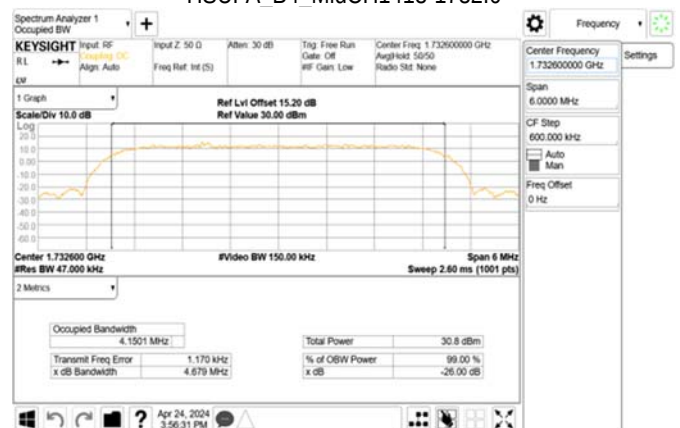
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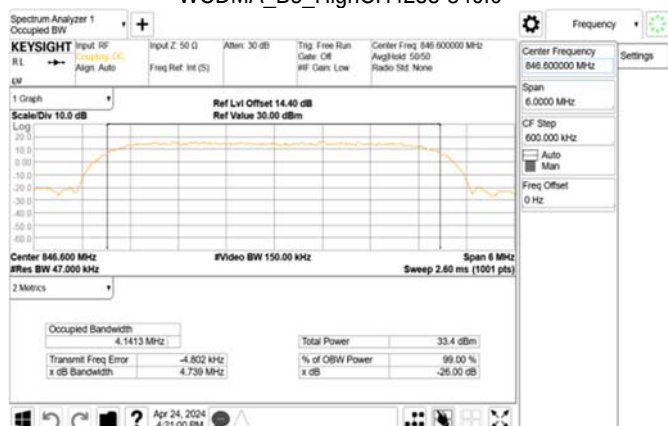


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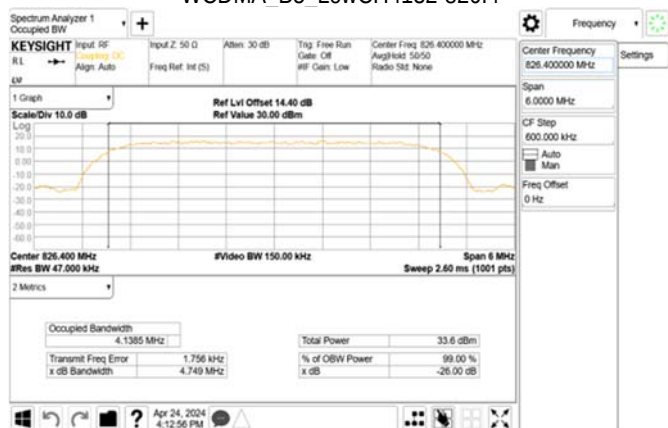
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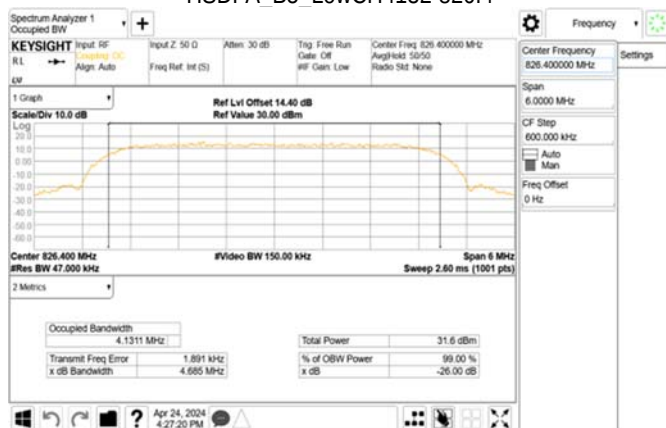
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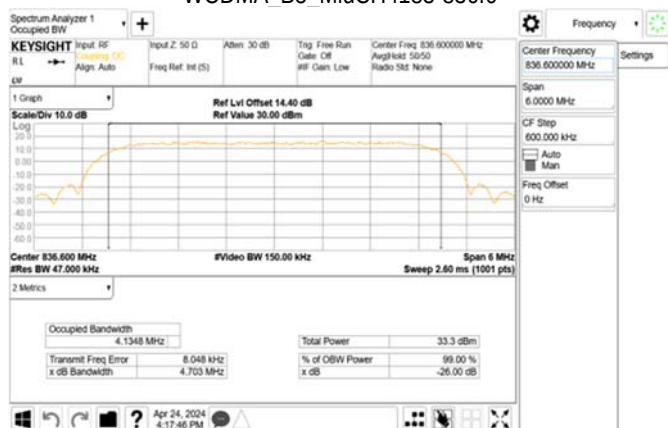
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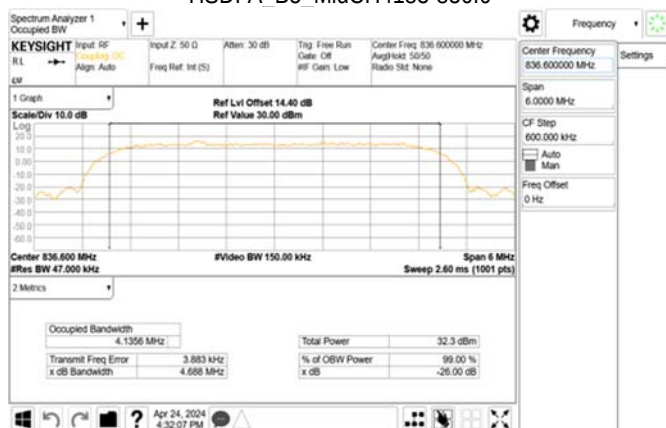
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WCDMA_B5_MidCH4183-836.6



HSDPA_B5_MidCH4183-836.6



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HSUPA_B5_MidCH4183-836.6



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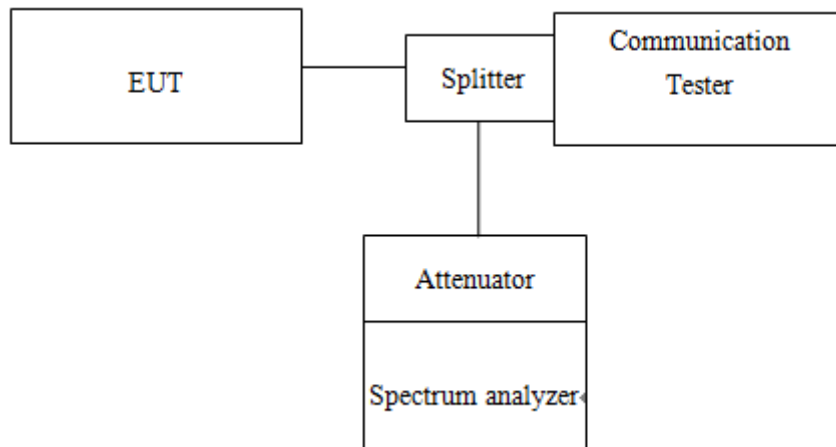
10 OUT OF BAND EMISSION AT ANTENNA TERMINALS

10.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h)

Out of band emissions. 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.

10.2 Test SET-UP



10.3 Measurement Procedure

10.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

10.3.2 Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting $RBW \geq 1\% EBW$.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

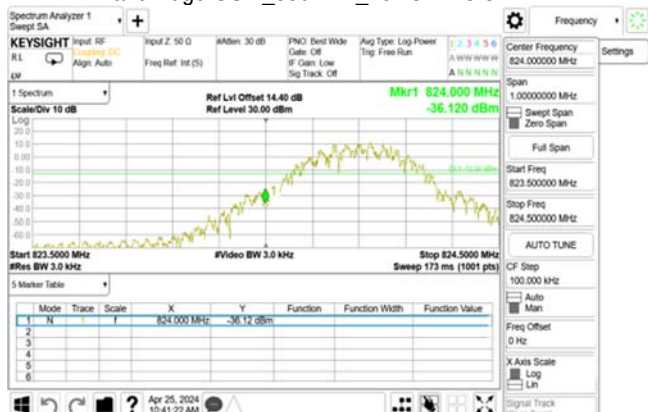
10.4 Measurement Result:

Refer to next pages.

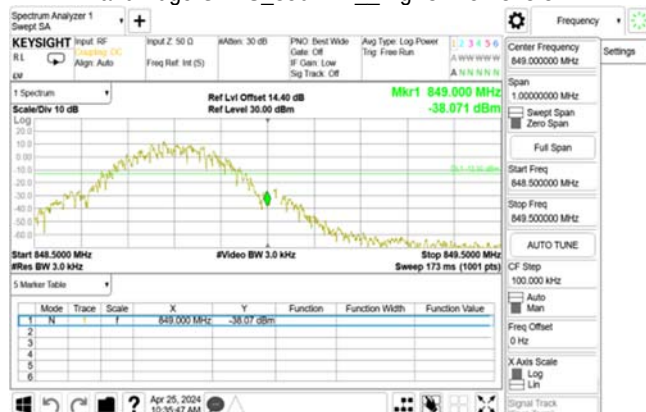
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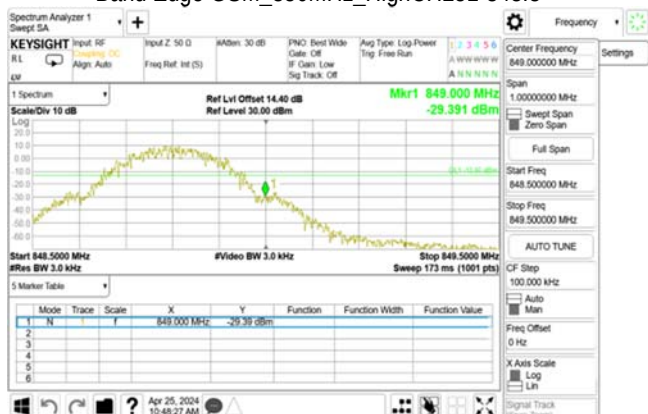
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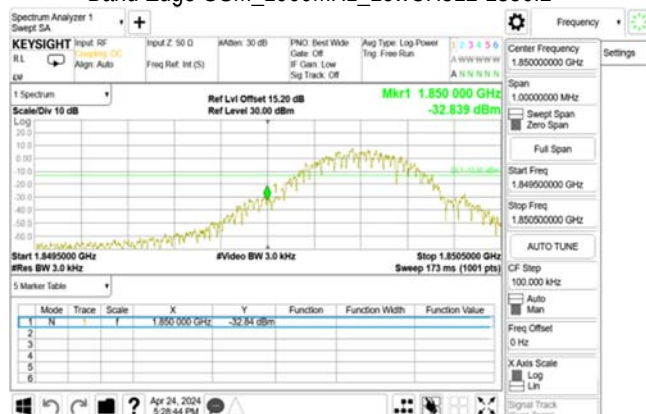
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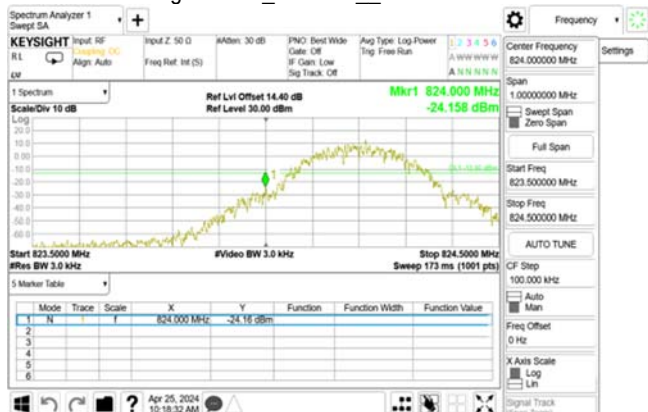
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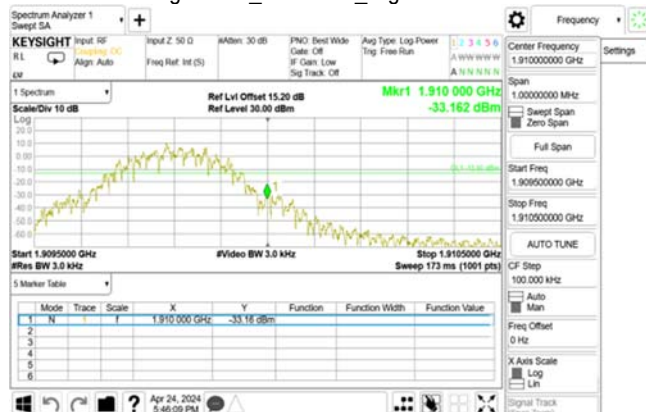
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Band Edge GPRS_850MHz_LowCH128-824.2



Band Edge GSM_1900MHz_HighCH810-1909.8

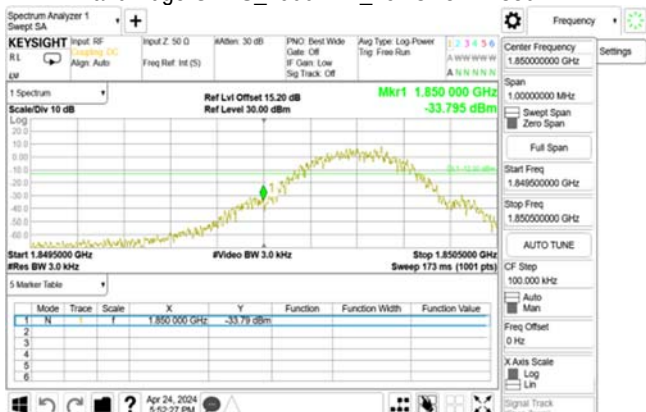


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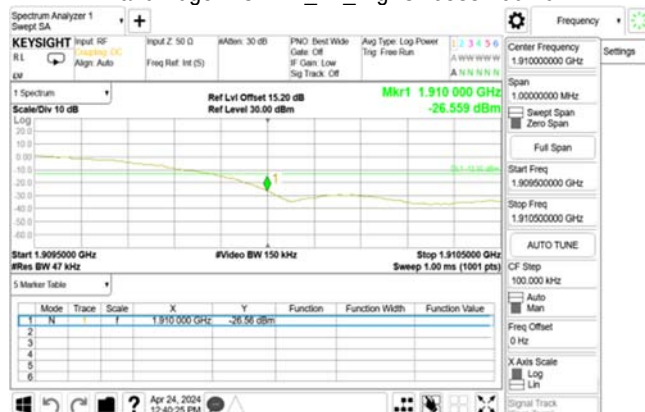
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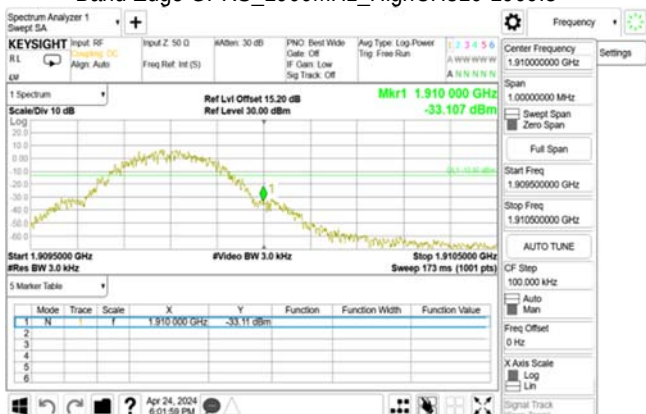
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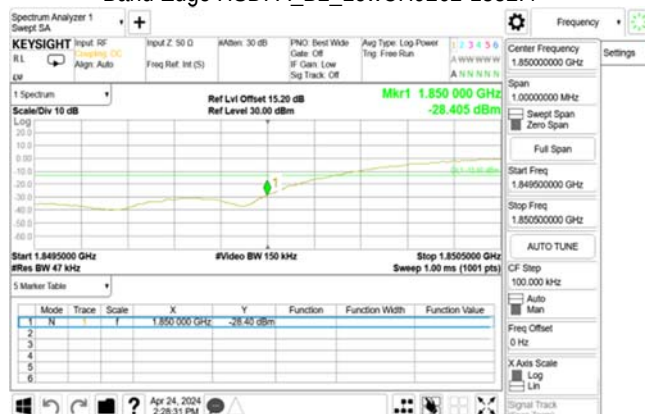
Band Edge WCDMA_B2_HighCH9538-1907.6



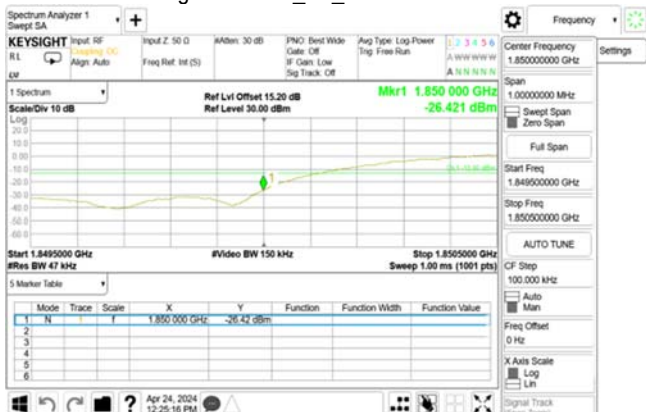
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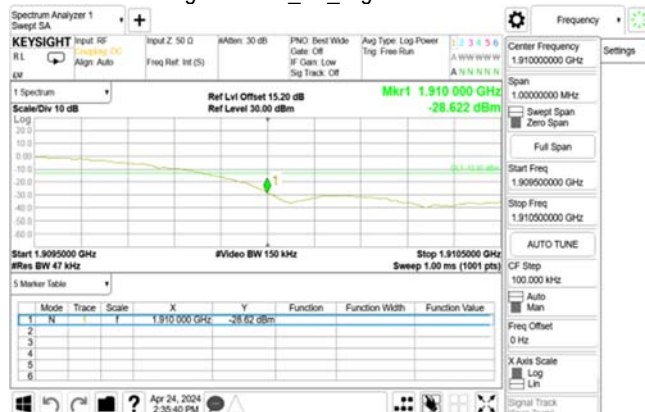
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Band Edge WCDMA_B2_LowCH9262-1852.4



Band Edge HSDPA_B2_HighCH9538-1907.6

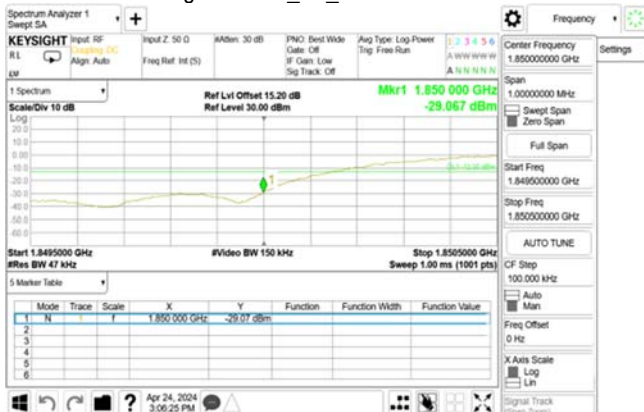


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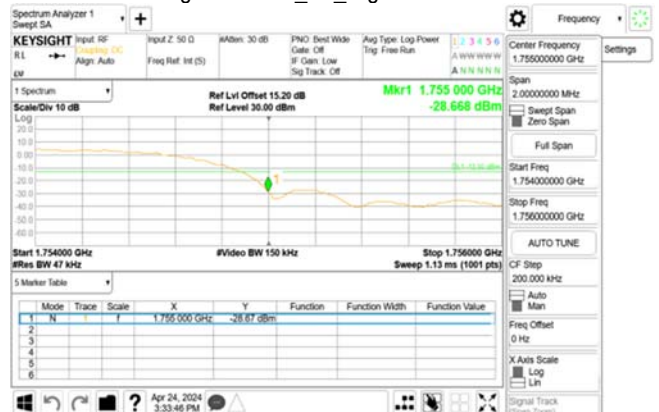
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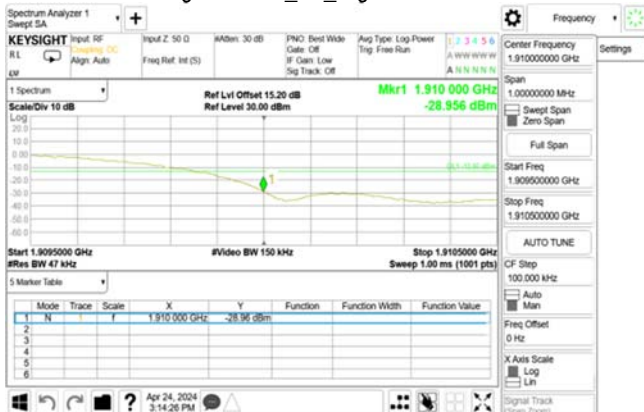
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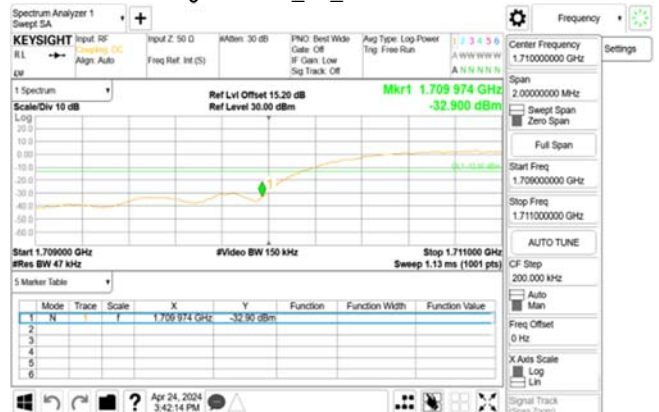
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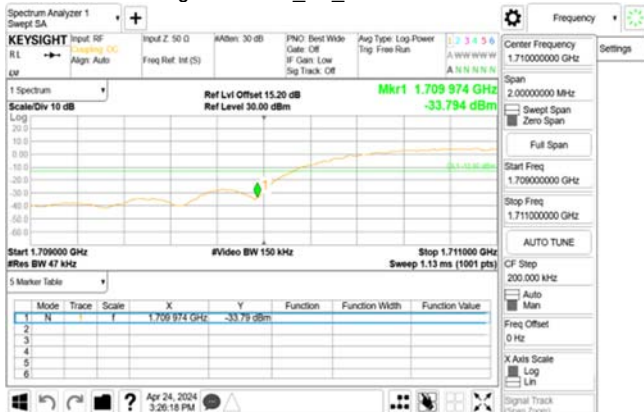
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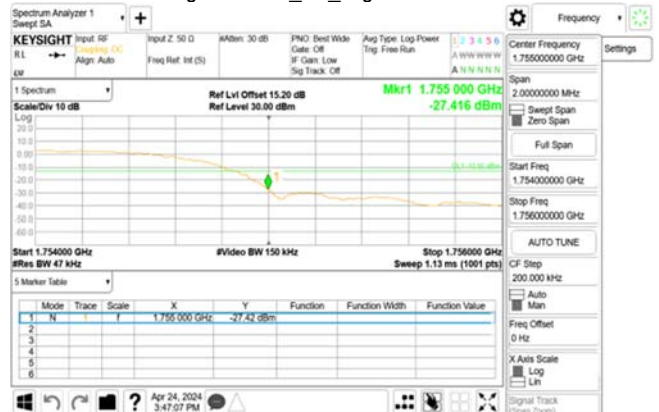
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Band Edge WCDMA_B4_LowCH1312-1712.4



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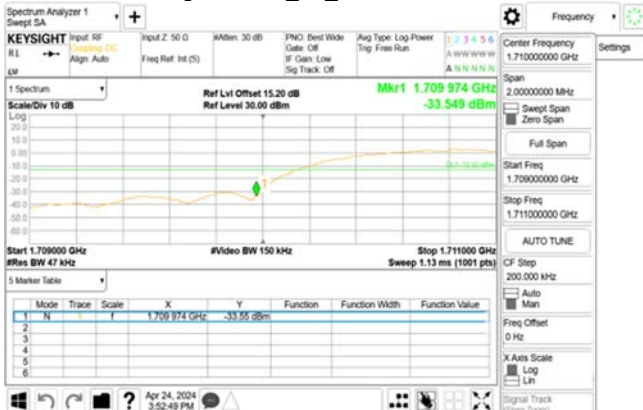


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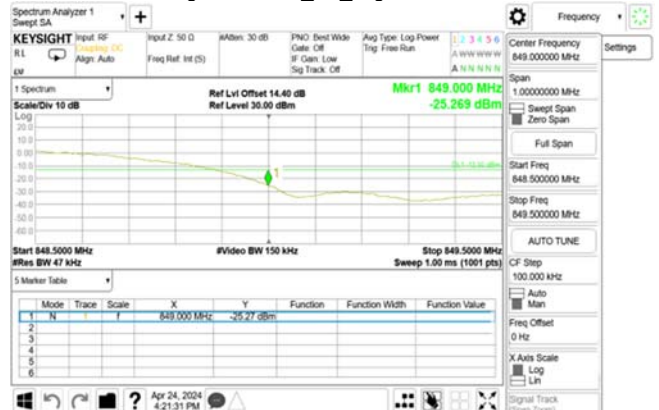
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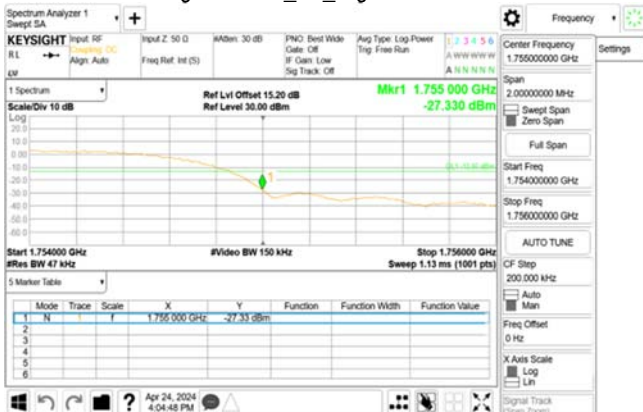
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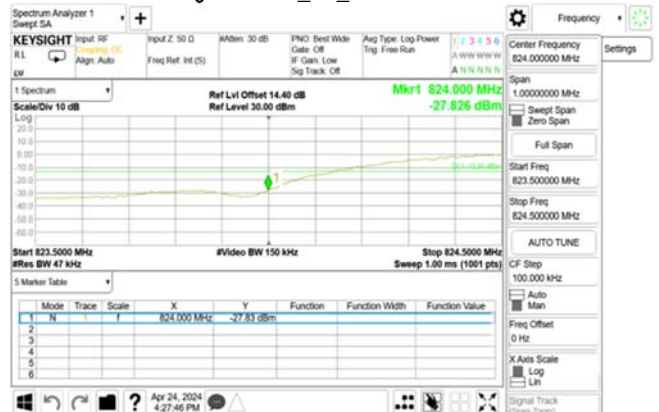
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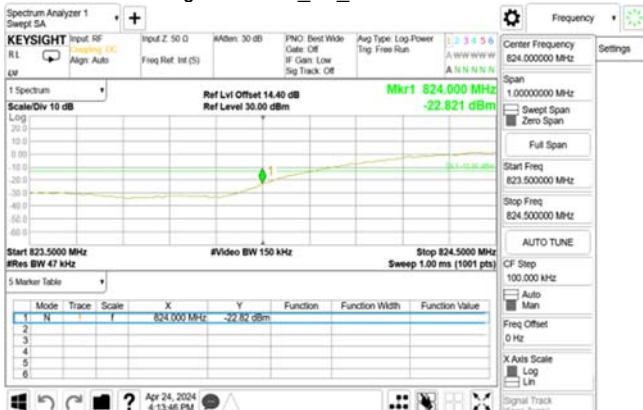
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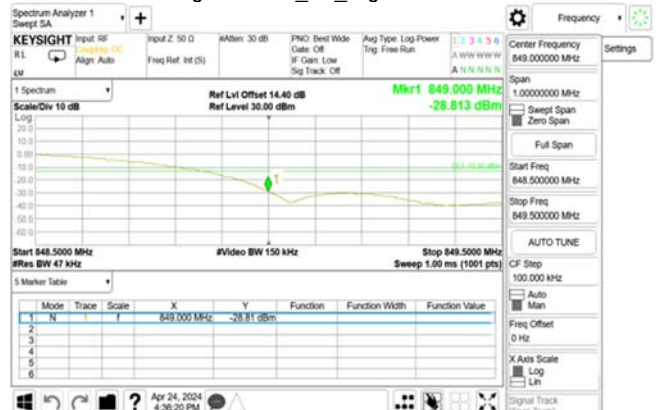
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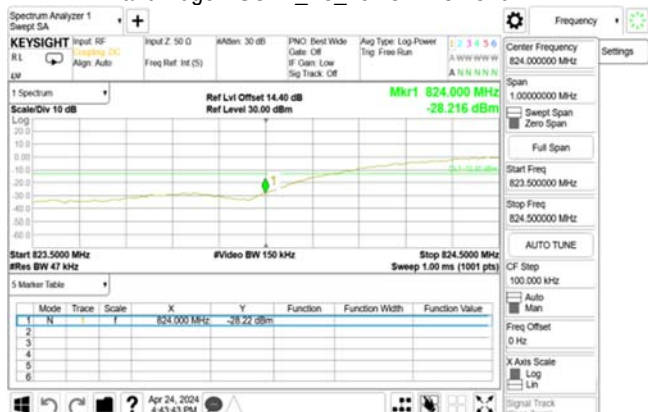


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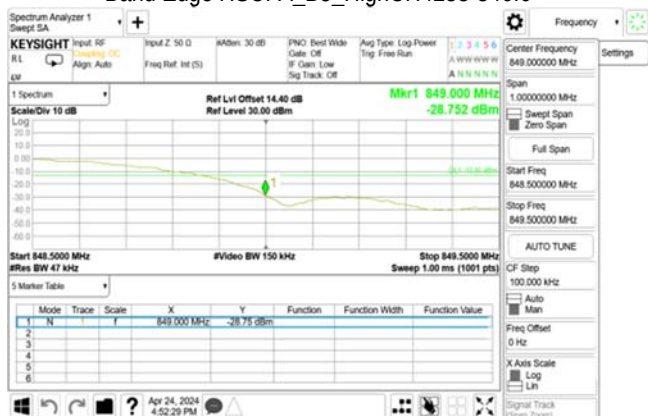
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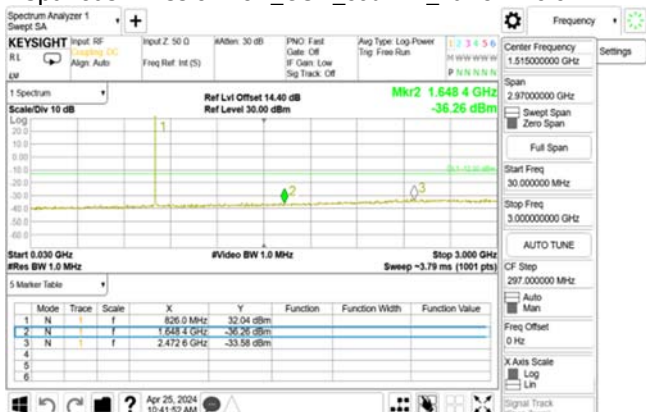
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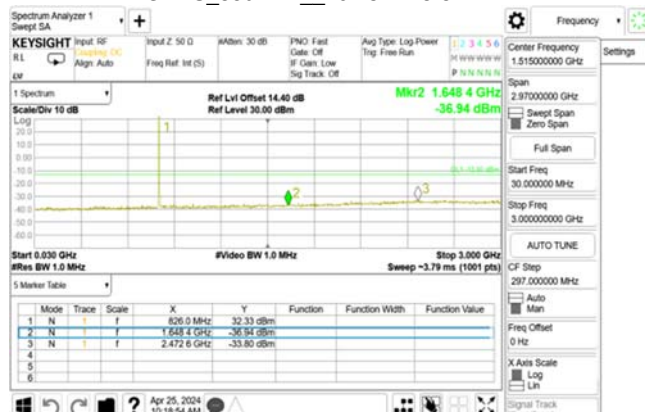
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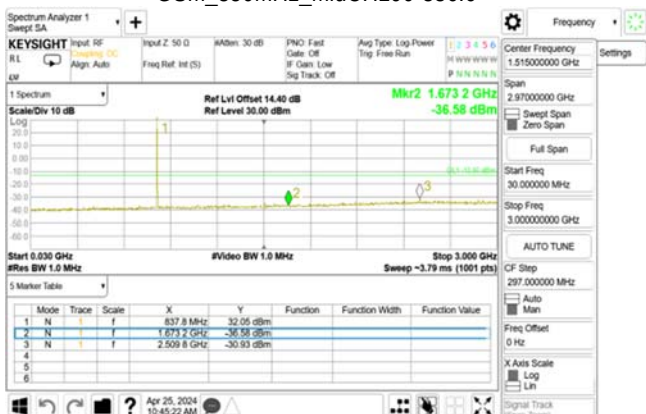
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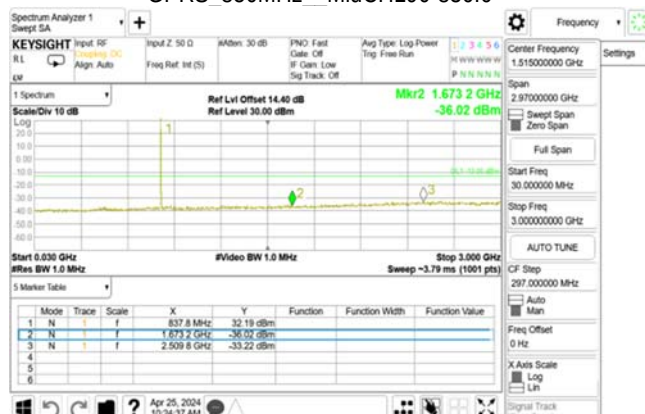
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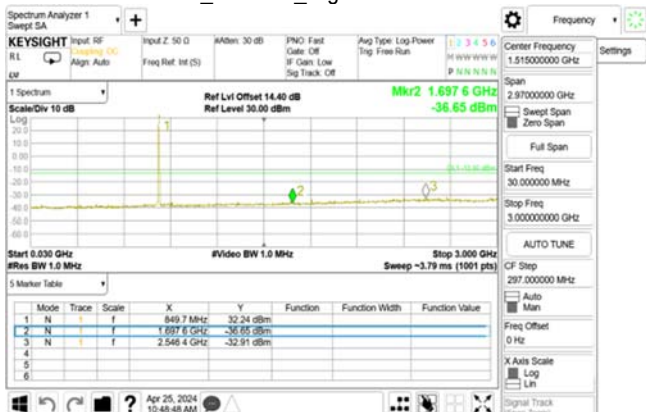
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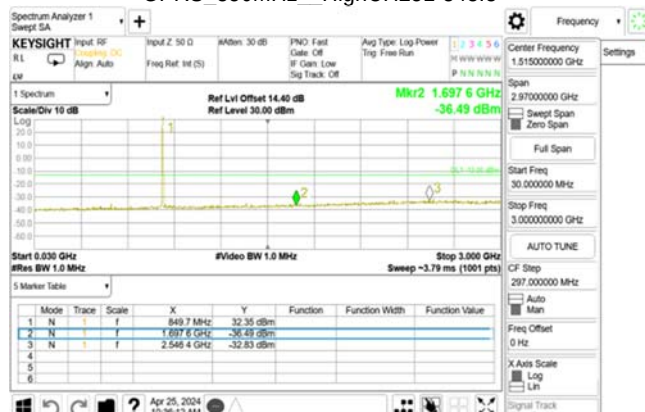
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GSM_850MHz_HighCH251-848.8



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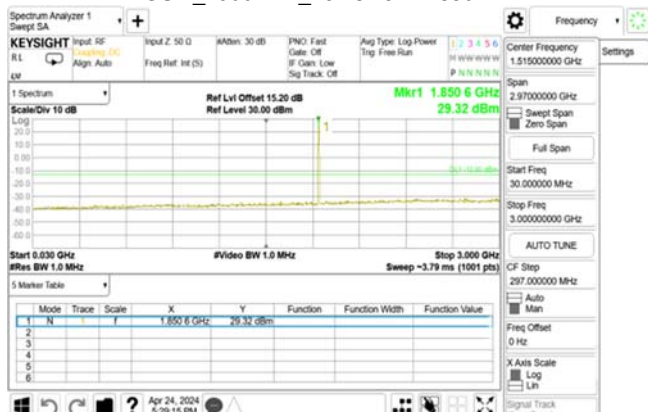


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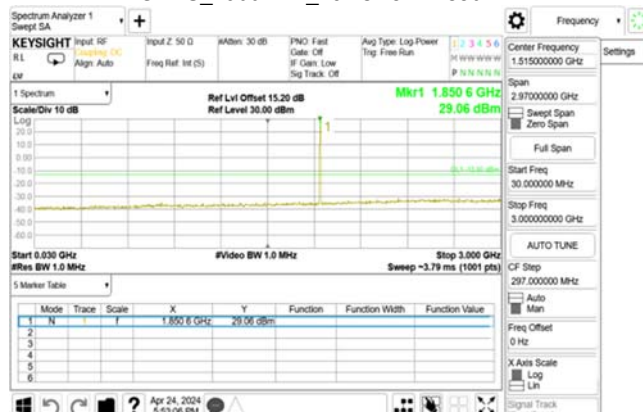
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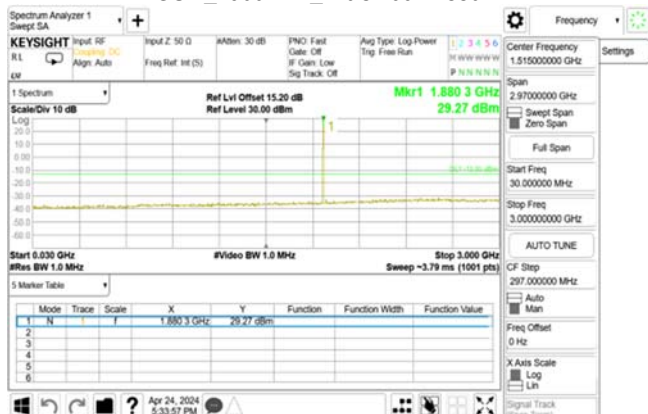
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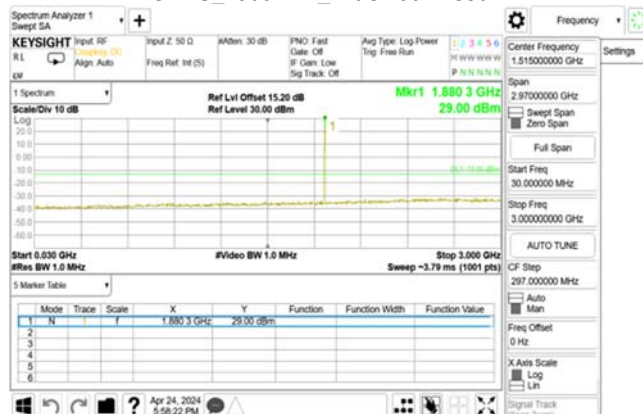
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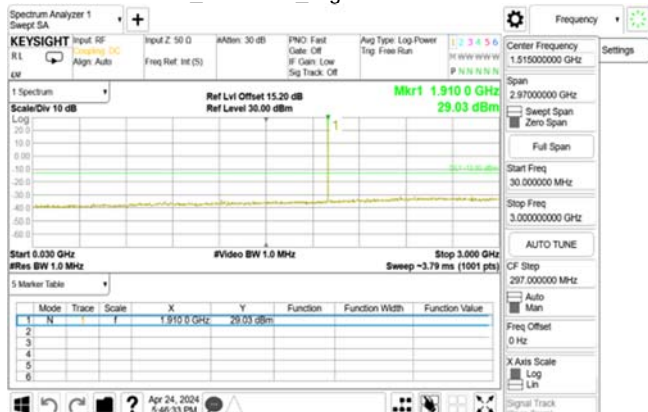
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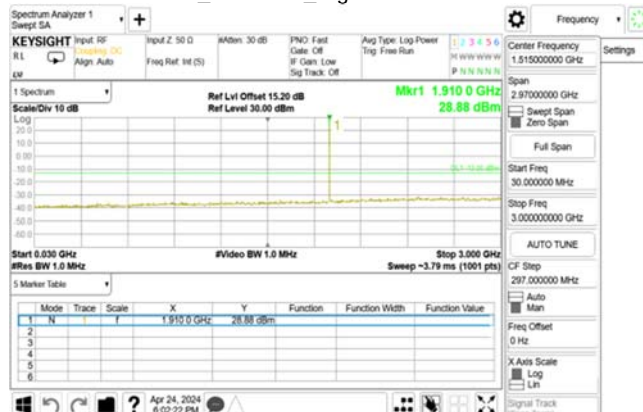
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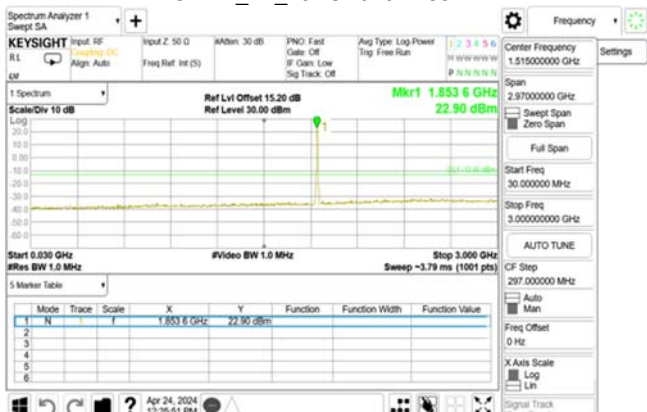


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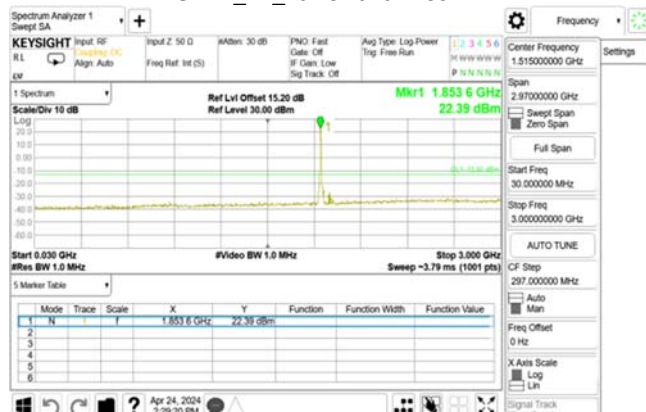
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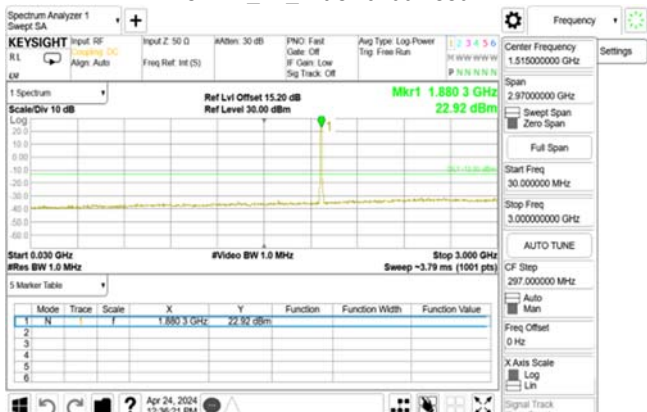
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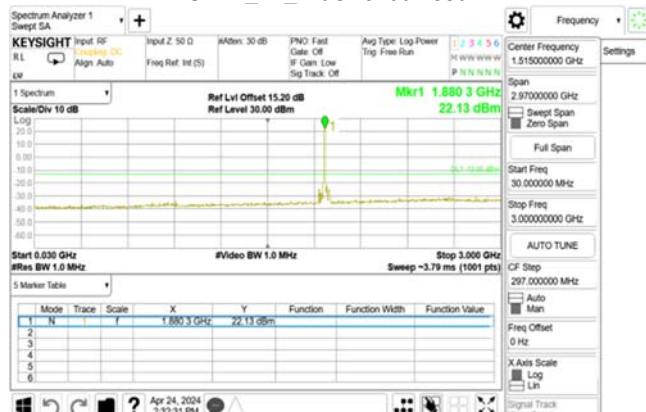
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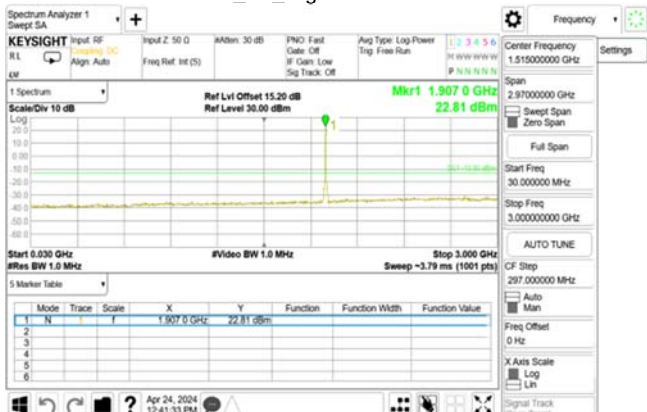
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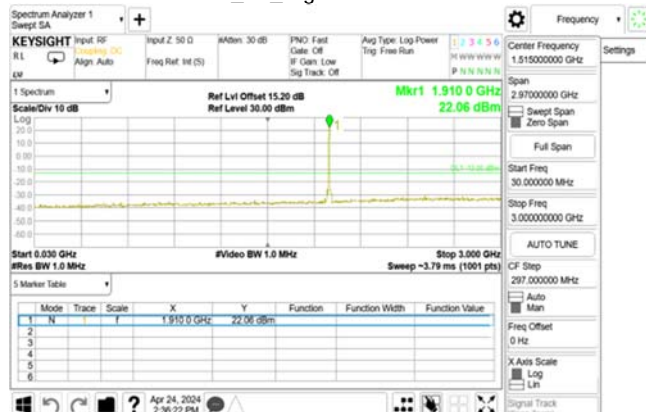
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WCDMA_B2_HighCH9538-1907.6



HSDPA_B2_HighCH9538-1907.6

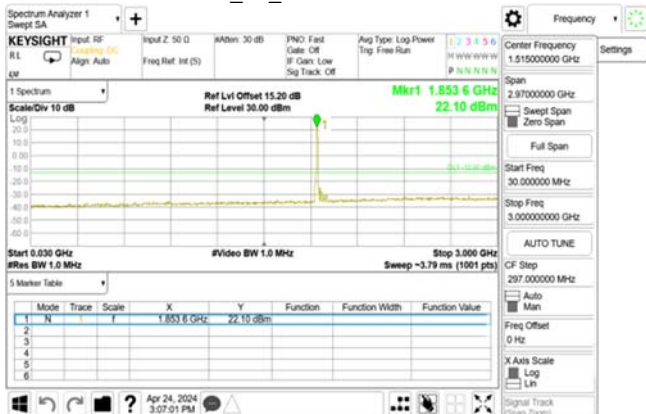


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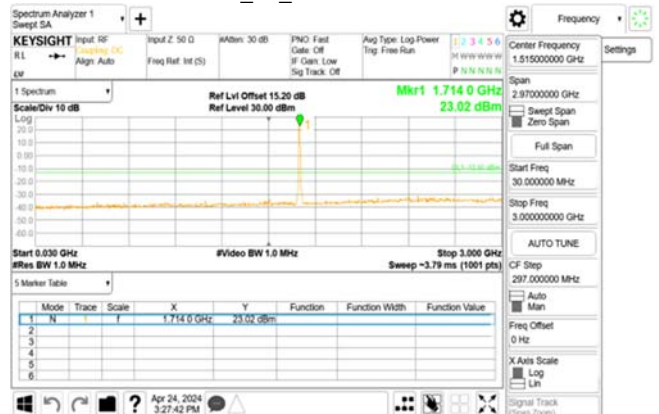
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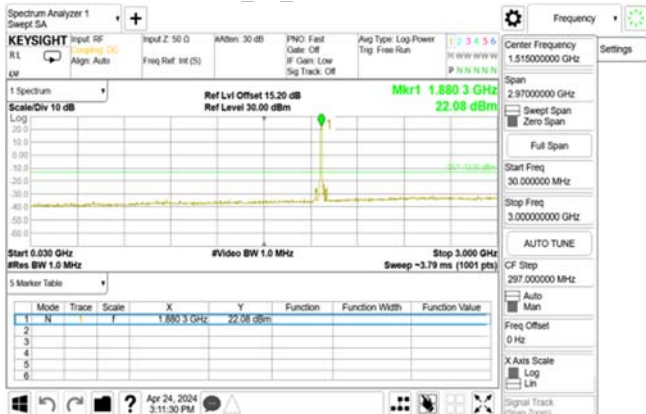
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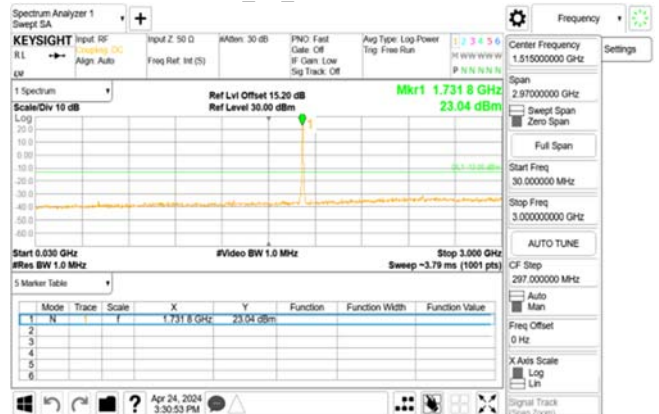
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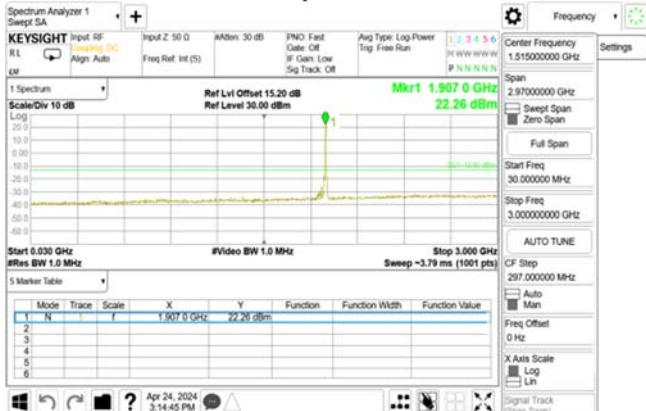
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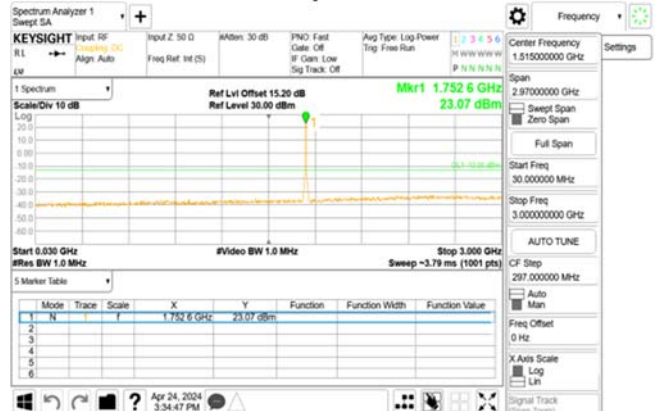
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HSUPA_B2_HighCH9538-1907.6



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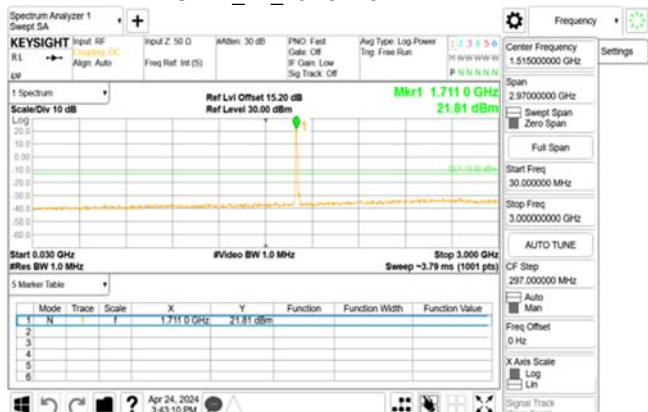


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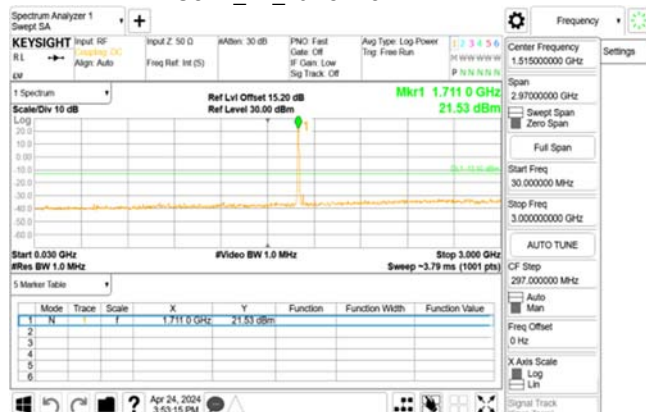
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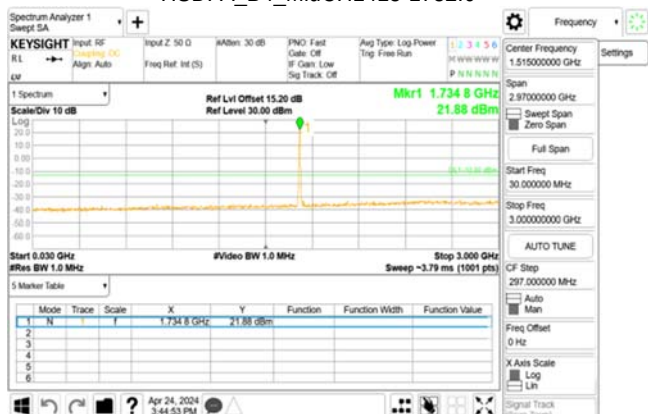
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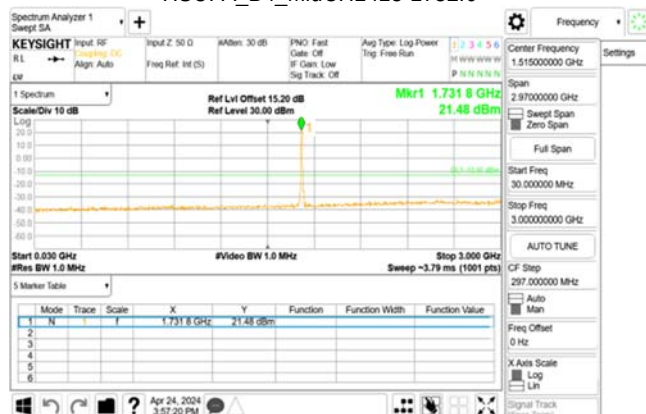
HSUPA_B4_LowCH1312-1712.4



HSDPA_B4_MidCH1413-1732.6



HSUPA_B4_MidCH1413-1732.6



HSDPA_B4_HighCH1513-1752.6



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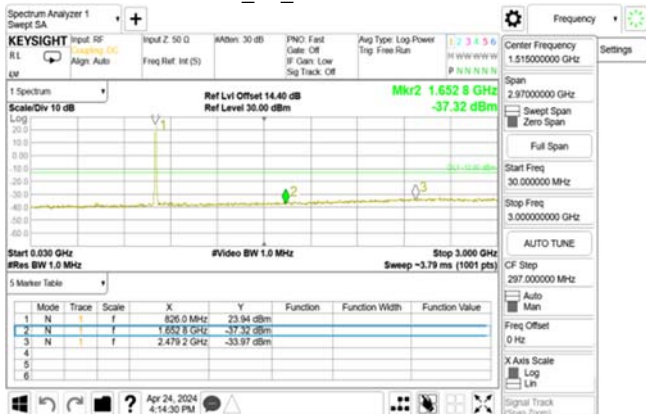


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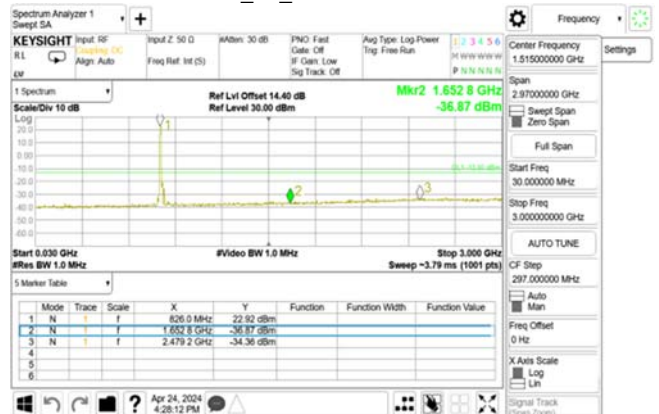
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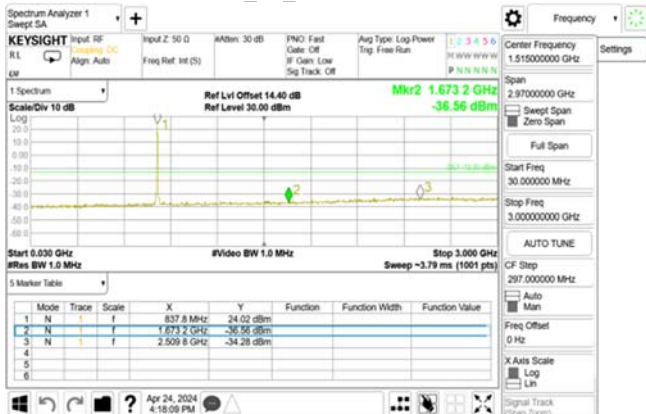
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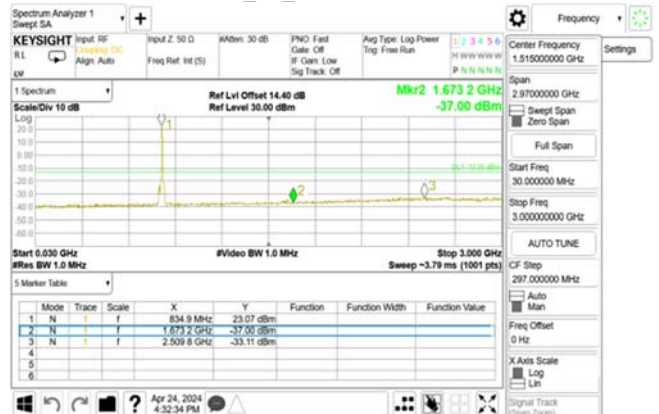
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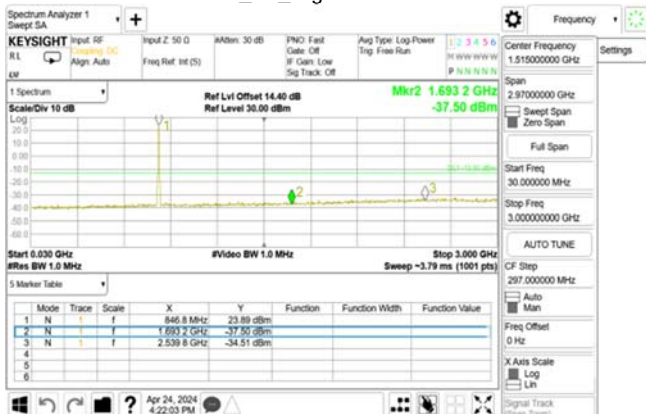
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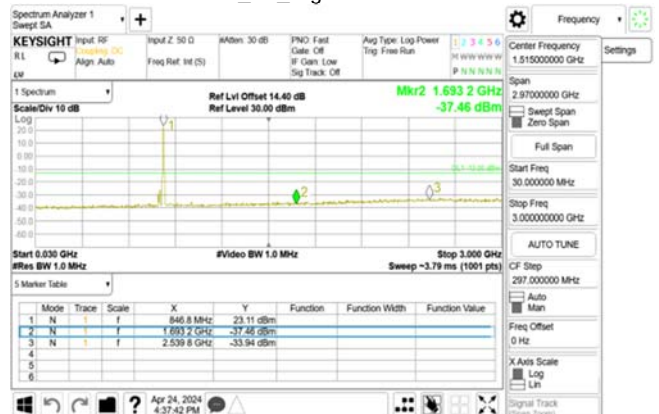
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HSDPA_B5_HighCH4233-846.6

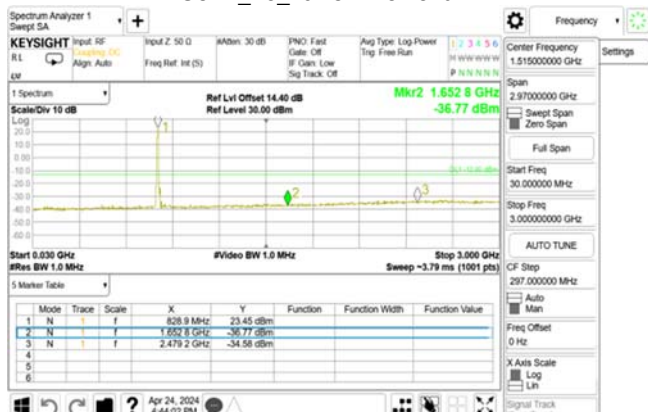


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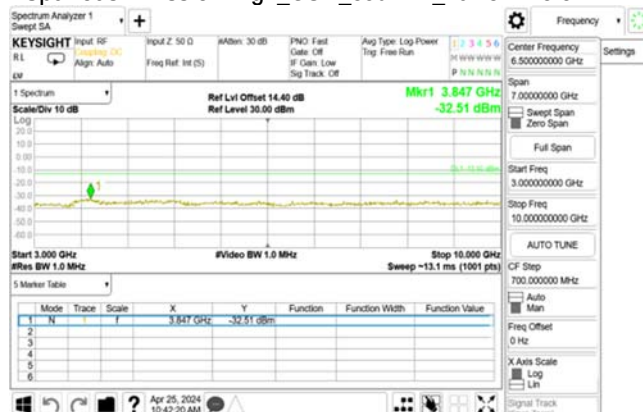
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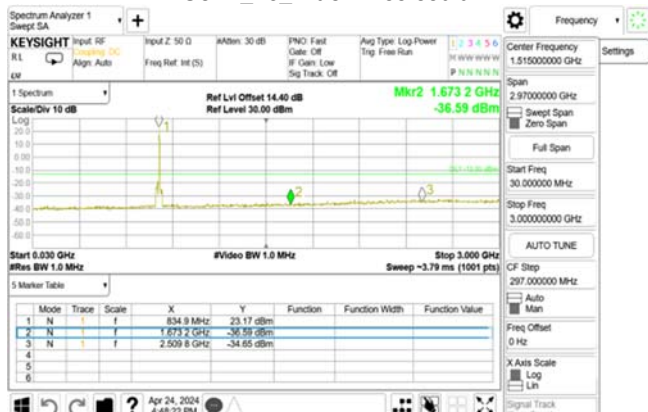
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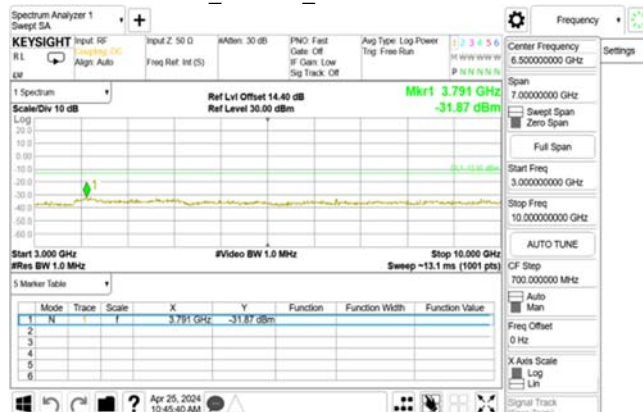
Spurious Emission High_GSM_850MHz_LowCH128-824.2



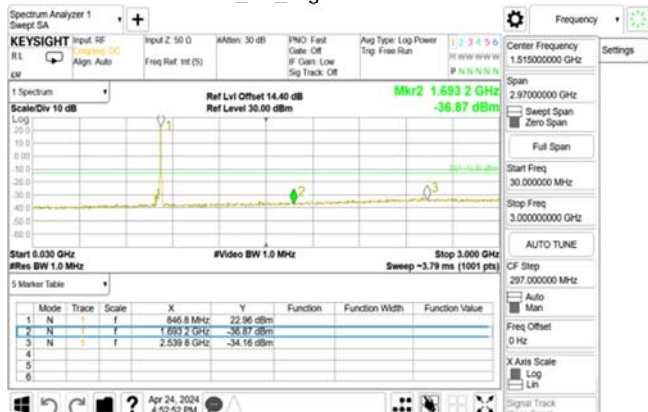
HSUPA_B5_MidCH4183-836.6



GSM_850MHz_MidCH190-836.6



HSUPA_B5_HighCH4233-846.6



GSM_850MHz_HighCH251-848.8

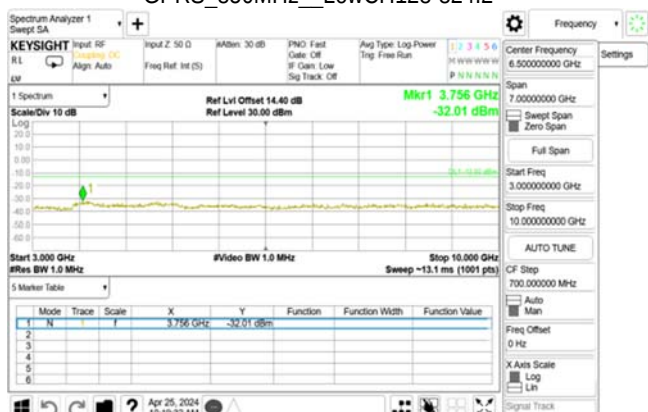


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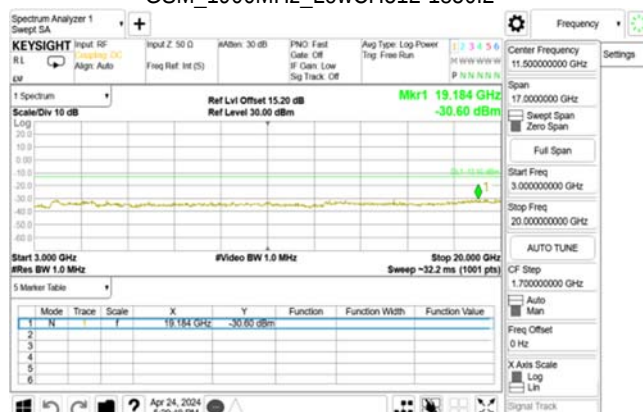
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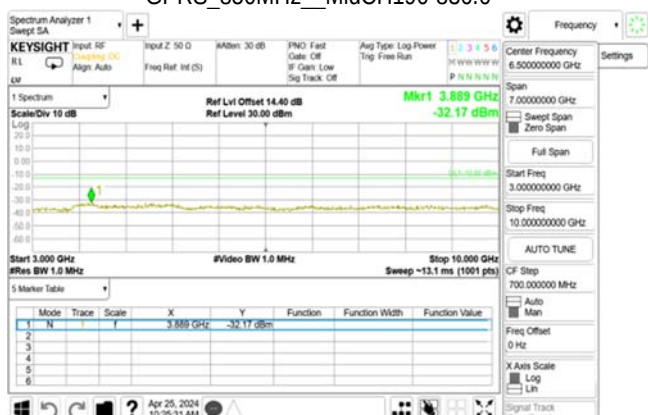
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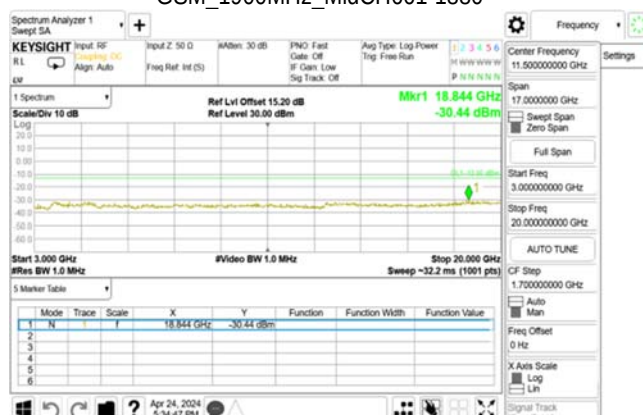
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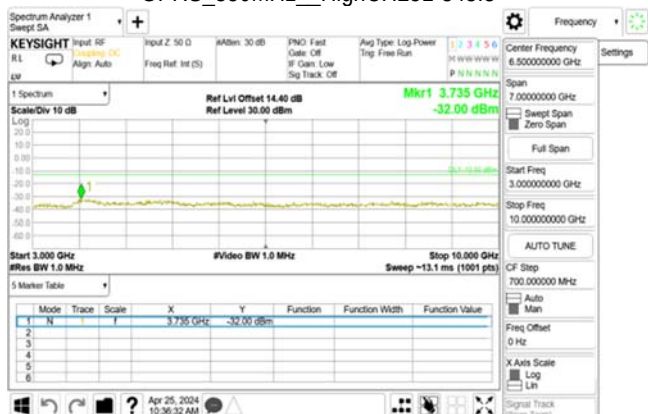
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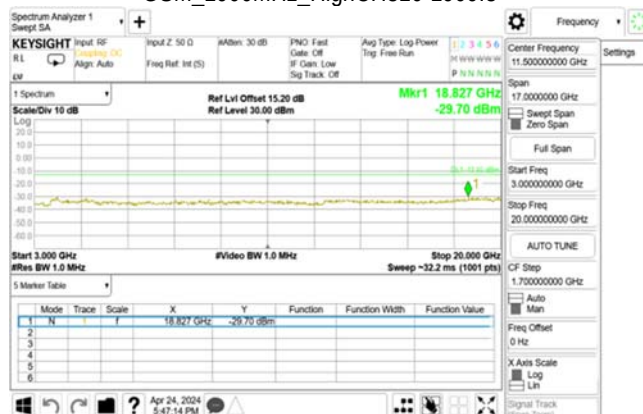
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GPRS 850MHz HighCH251-848.8



GSM 1900MHz HighCH810-1909.8

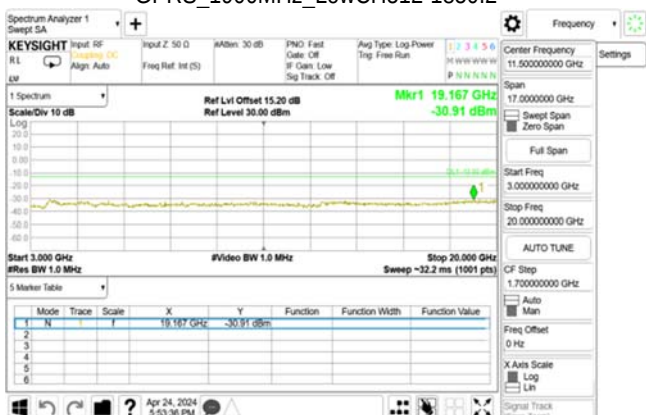


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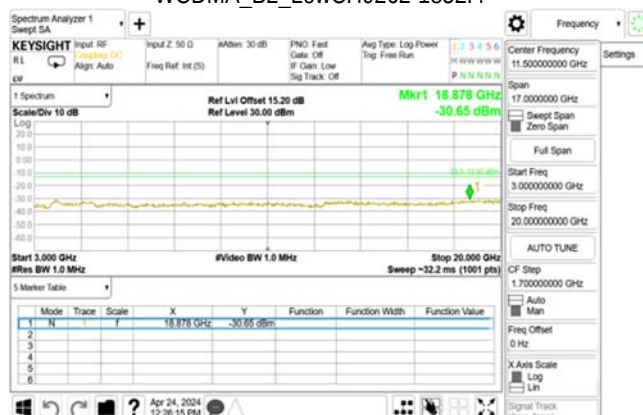
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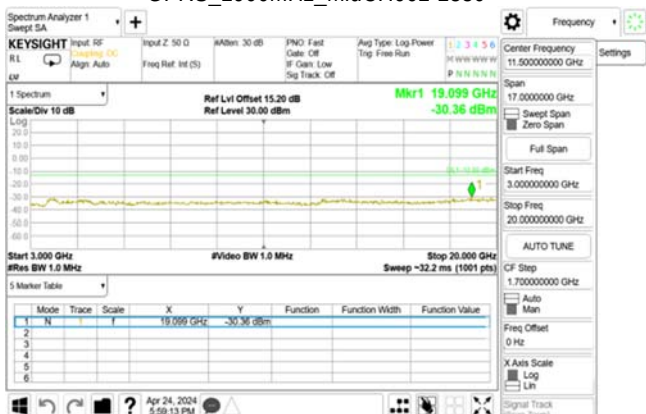
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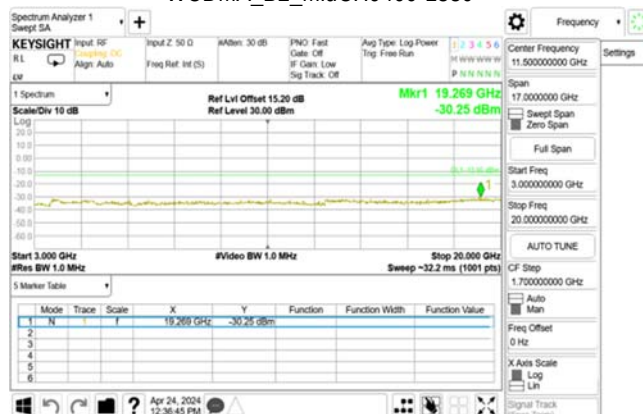
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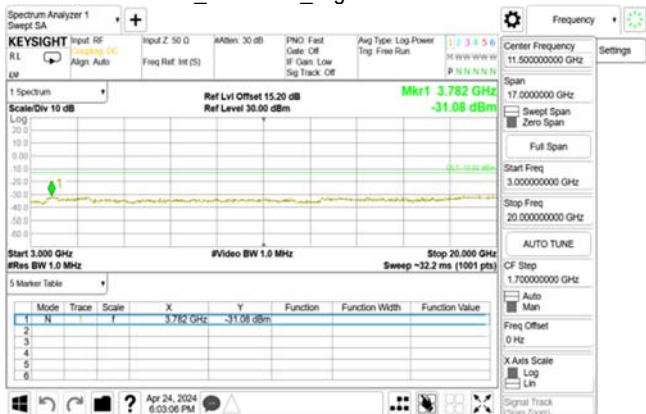
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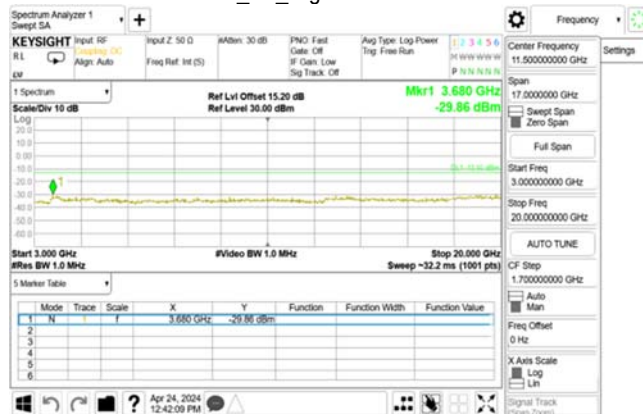
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GPRS_1900MHz_HighCH810-1909.8



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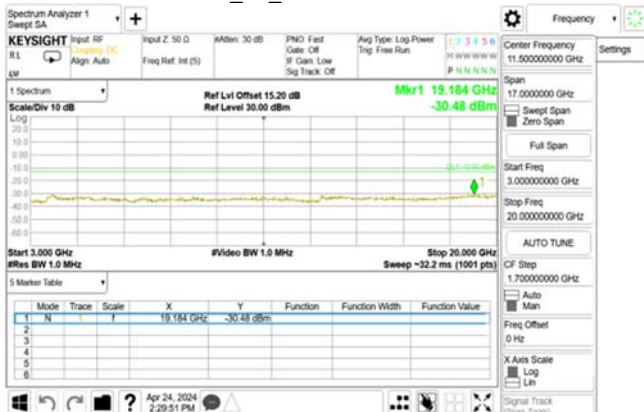


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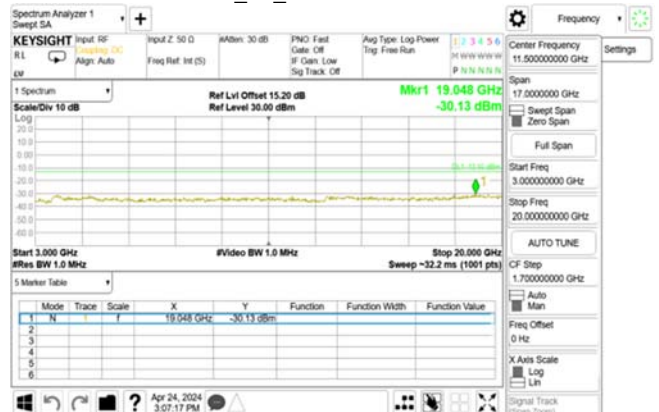
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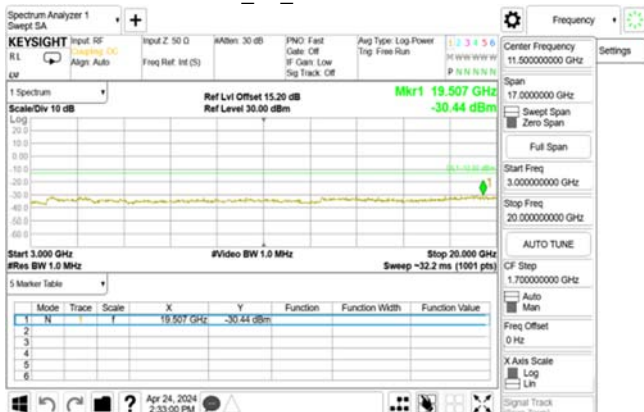
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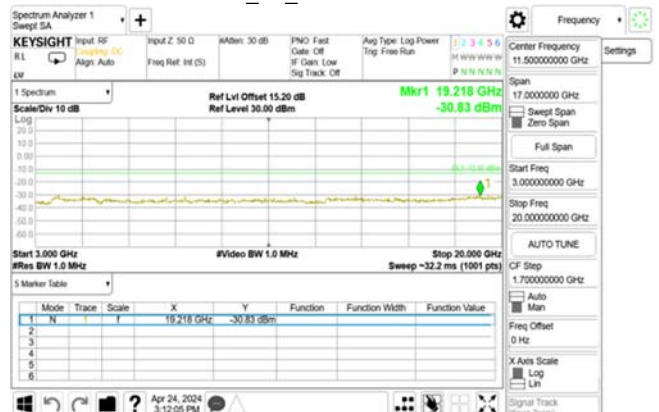
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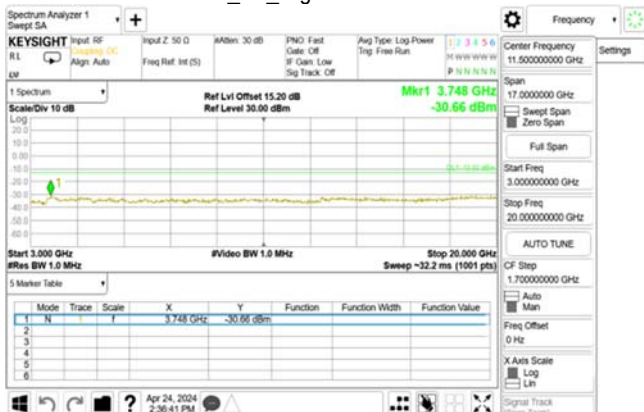
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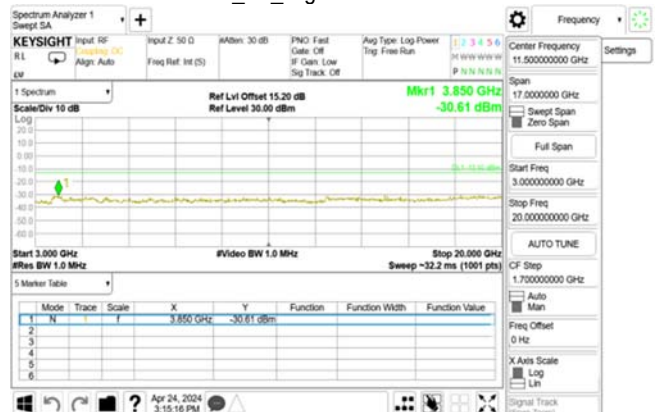
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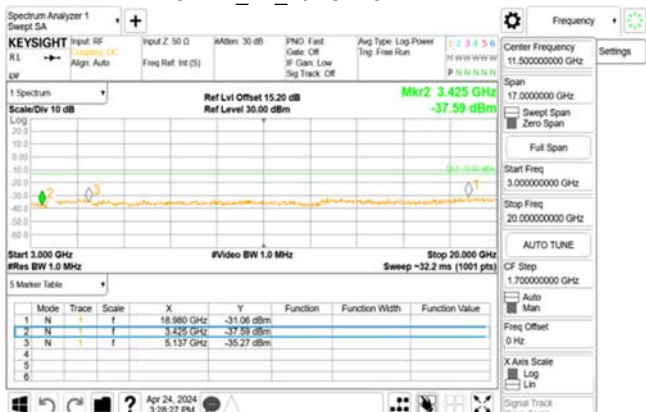


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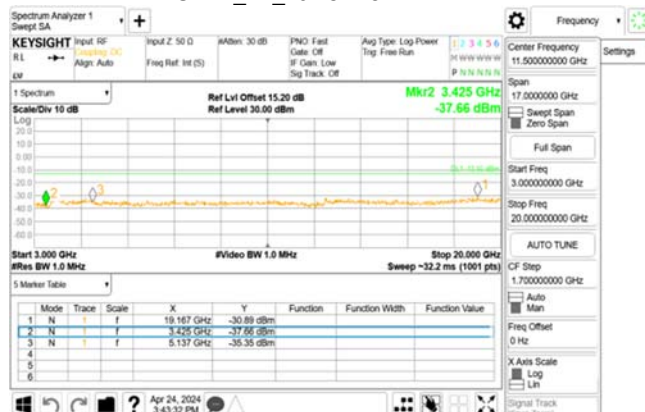
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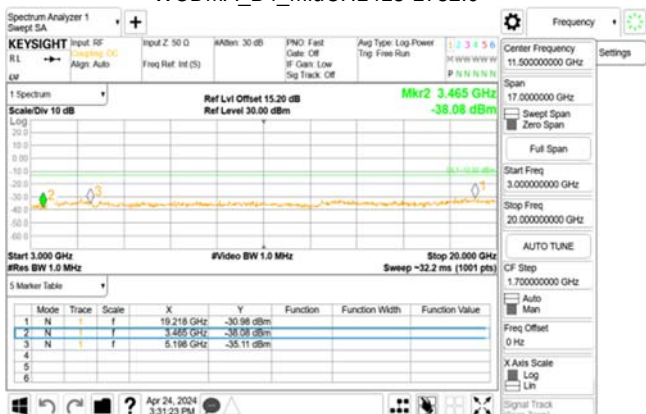
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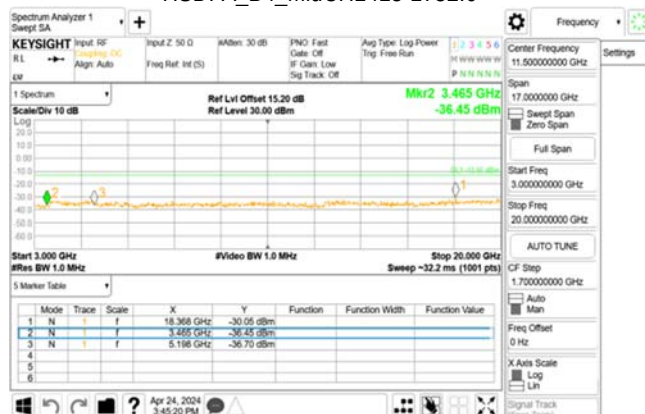
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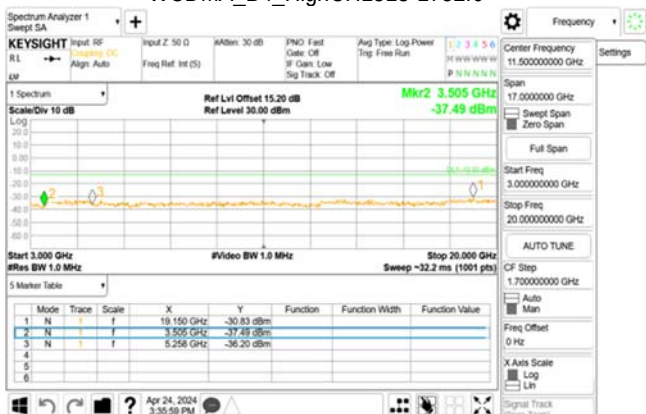
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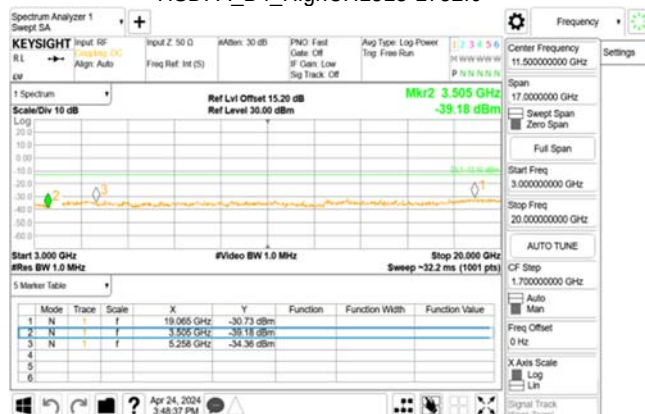
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WCDMA_B4_HighCH1513-1752.6



HSDPA_B4_HighCH1513-1752.6



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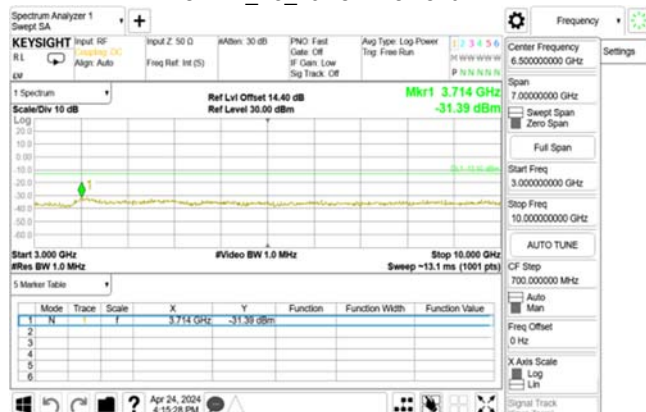
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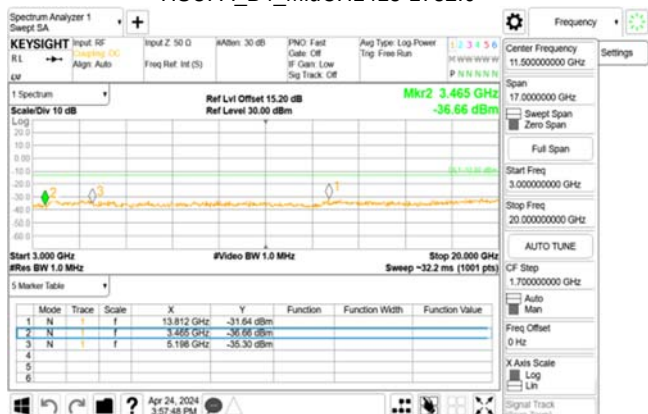
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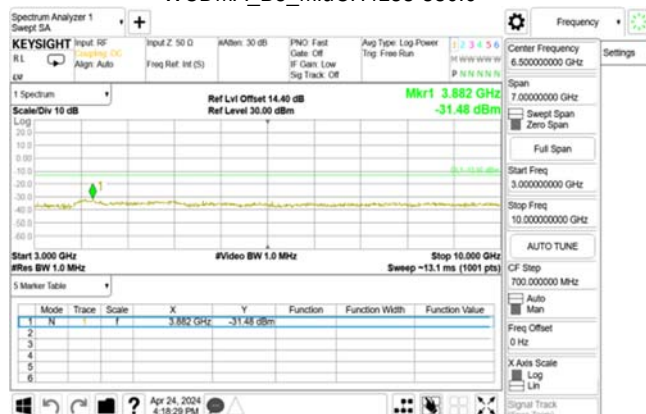
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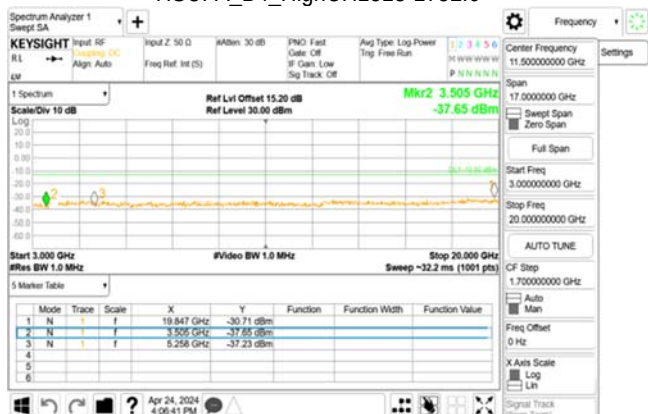
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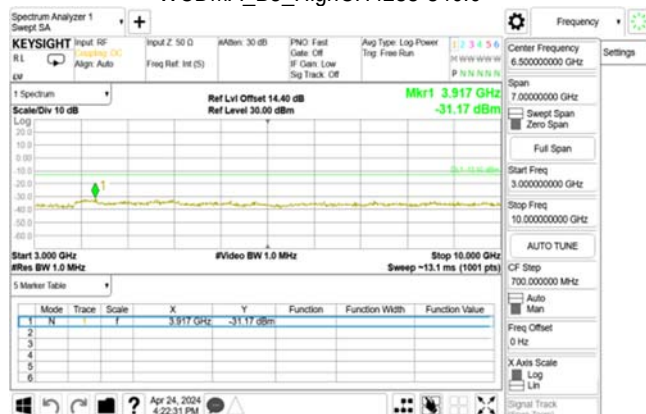
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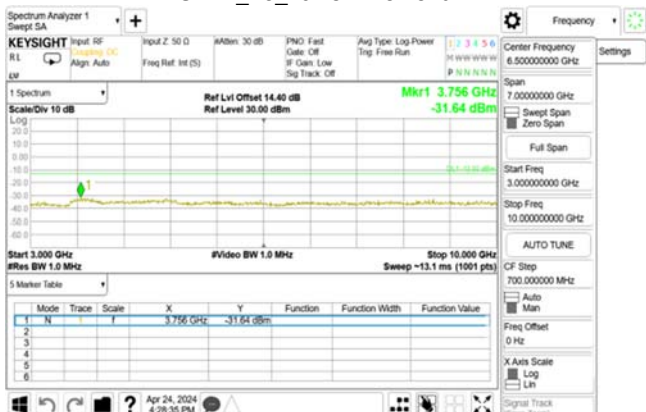
WCDMA_B5_HighCH4233-846.6



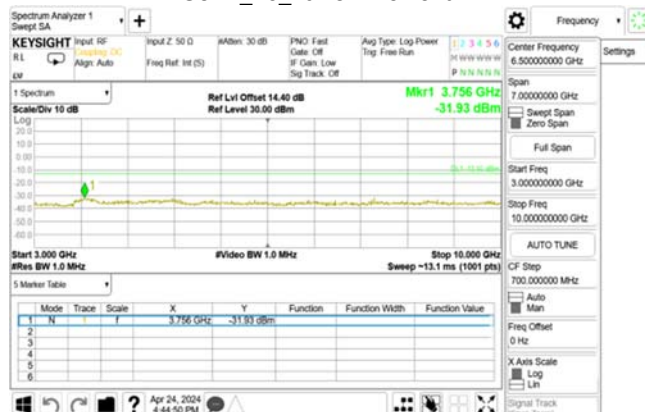
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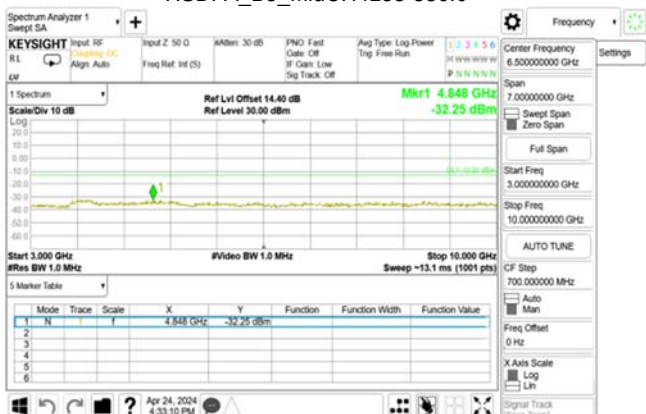
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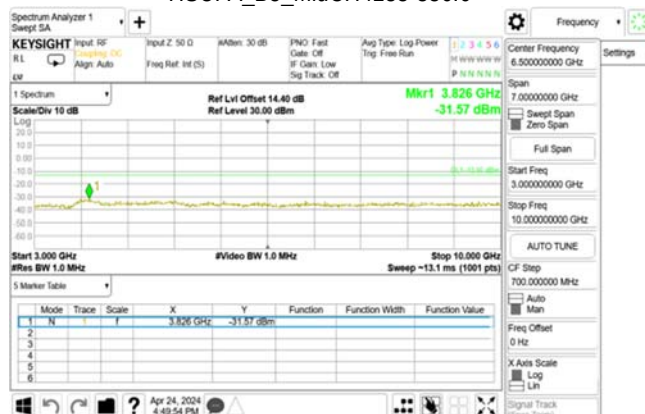
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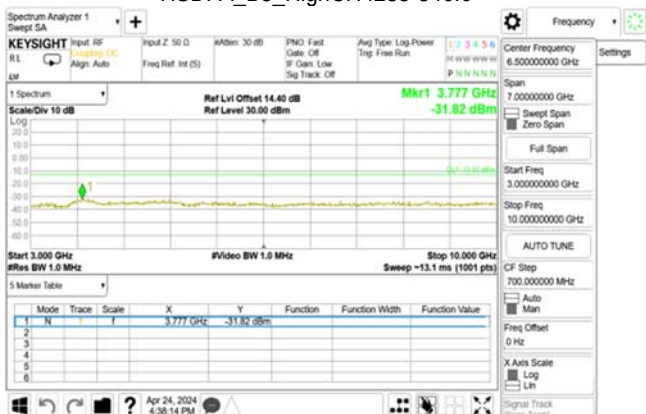
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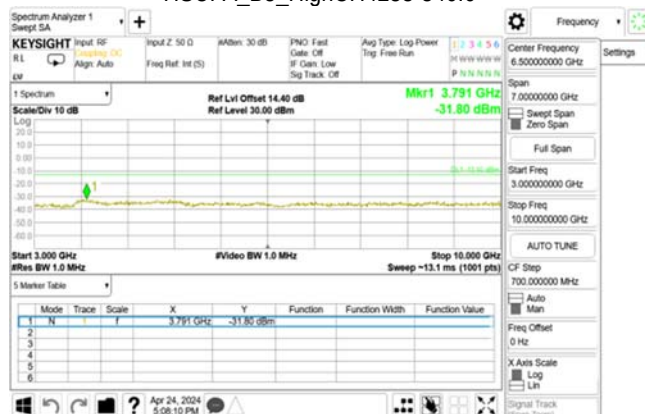
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HSDPA_B5_HighCH4233-846.6



HSUPA_B5_HighCH4233-846.6



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11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

11.1 Standard Applicable

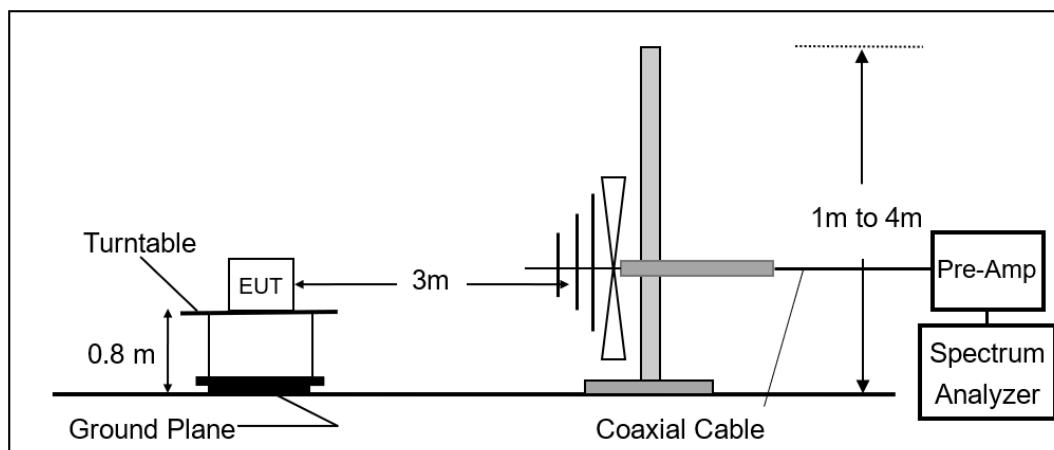
According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

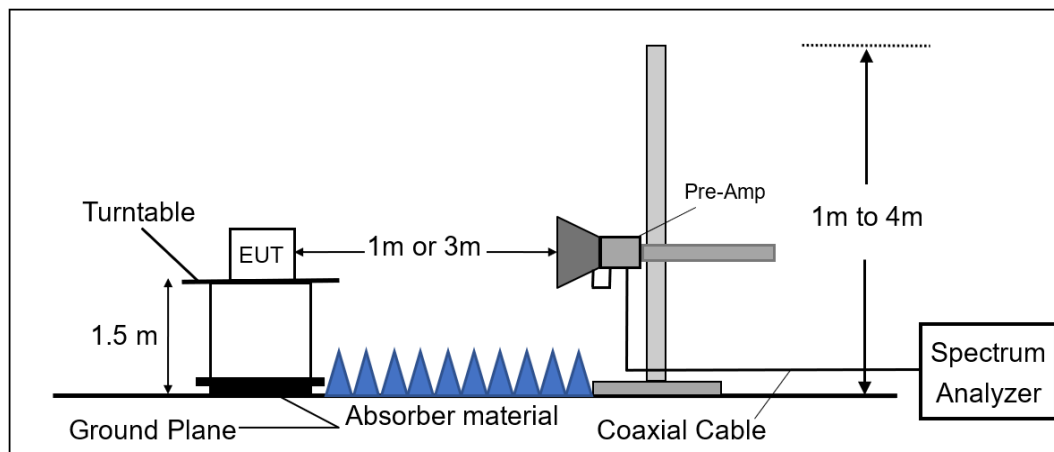
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

11.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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11.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

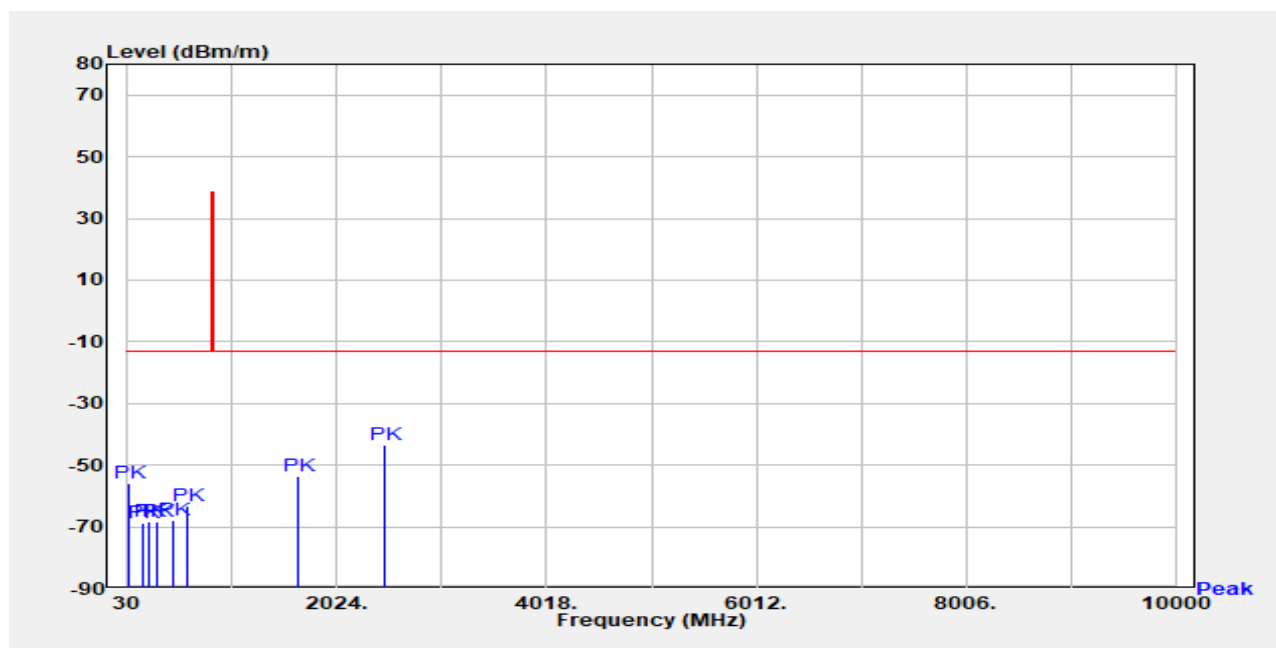
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11.4 Measurement Result:

Report Number :TERF2404001029ER
 Operation Mode :GSM 850
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :824.2 MHz

Test Site :SAC 2
 Test Date :2024-05-09
 Temp./Humi. :22.4°C/53%
 Antenna Pol. :Vertical
 Engineer :Eason Wang



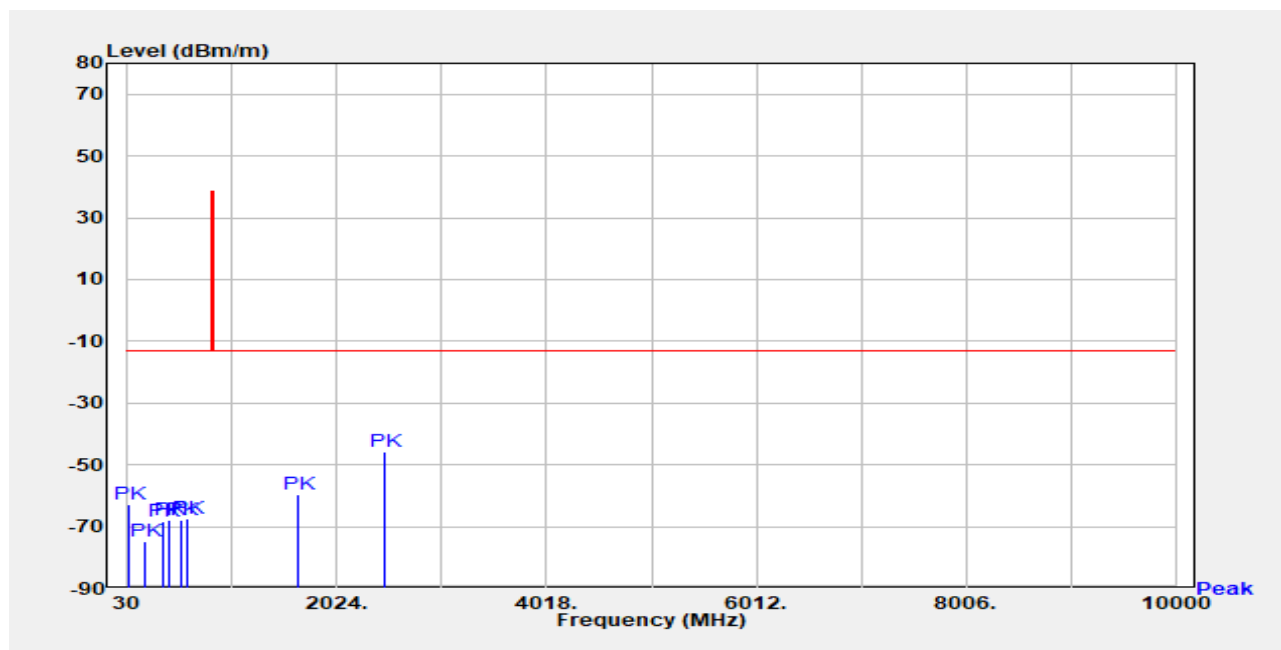
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.336	-55.77	-42.81	-12.19	-0.77	-13.00	-42.77
167.216	-68.72	-66.69	-0.60	-1.43	-13.00	-55.72
234.801	-68.43	-71.07	4.32	-1.69	-13.00	-55.43
318.230	-68.39	-70.51	4.07	-1.95	-13.00	-55.39
461.159	-67.68	-69.36	4.01	-2.34	-13.00	-54.68
597.729	-63.32	-64.41	3.75	-2.66	-13.00	-50.32
1648.400	-53.61	-58.78	9.50	-4.33	-13.00	-40.61
2472.600	-43.61	-48.72	10.50	-5.39	-13.00	-30.61

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Report Number :TERF2404001029ER
Operation Mode :GSM 850
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :824.2 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



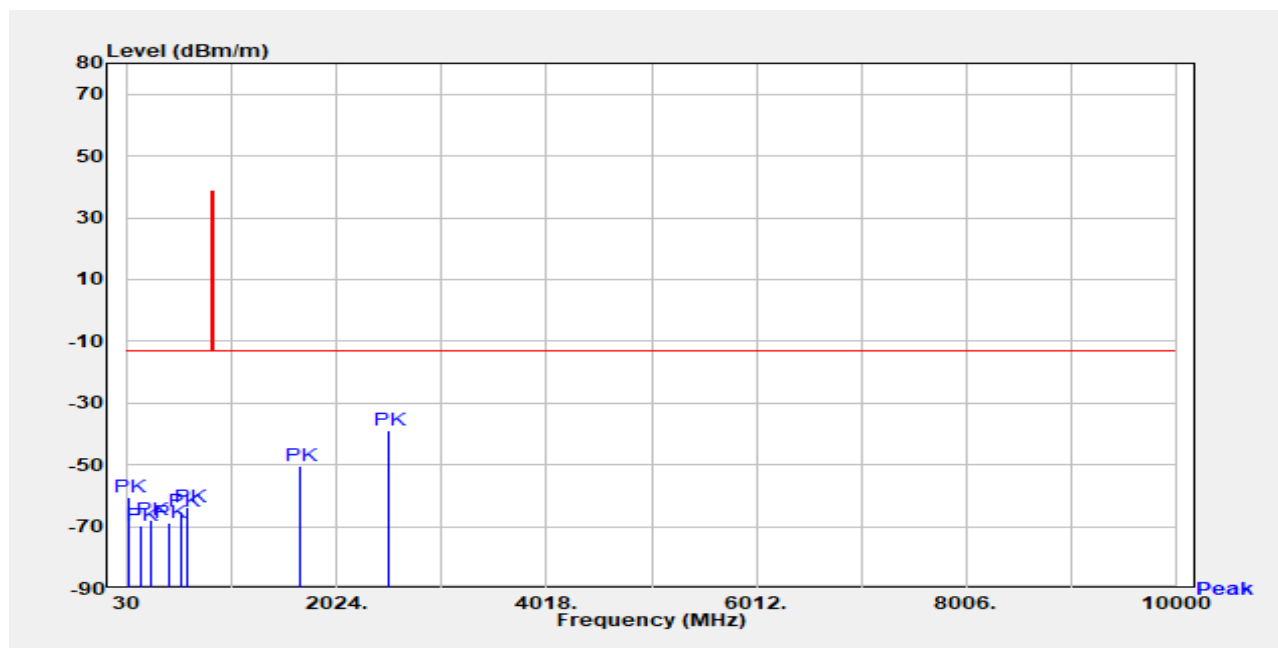
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.228	-62.81	-49.90	-12.14	-0.77	-13.00	-49.81
188.559	-74.61	-75.84	2.74	-1.52	-13.00	-61.61
375.682	-68.45	-70.58	4.25	-2.12	-13.00	-55.45
416.103	-67.95	-69.75	4.02	-2.22	-13.00	-54.95
547.930	-67.68	-69.38	4.26	-2.55	-13.00	-54.68
587.704	-67.30	-68.52	3.86	-2.64	-13.00	-54.30
1648.400	-59.44	-64.61	9.50	-4.33	-13.00	-46.44
2472.600	-45.70	-50.81	10.50	-5.39	-13.00	-32.70

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Report Number :TERF2404001029ER
Operation Mode :GSM 850
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :836.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



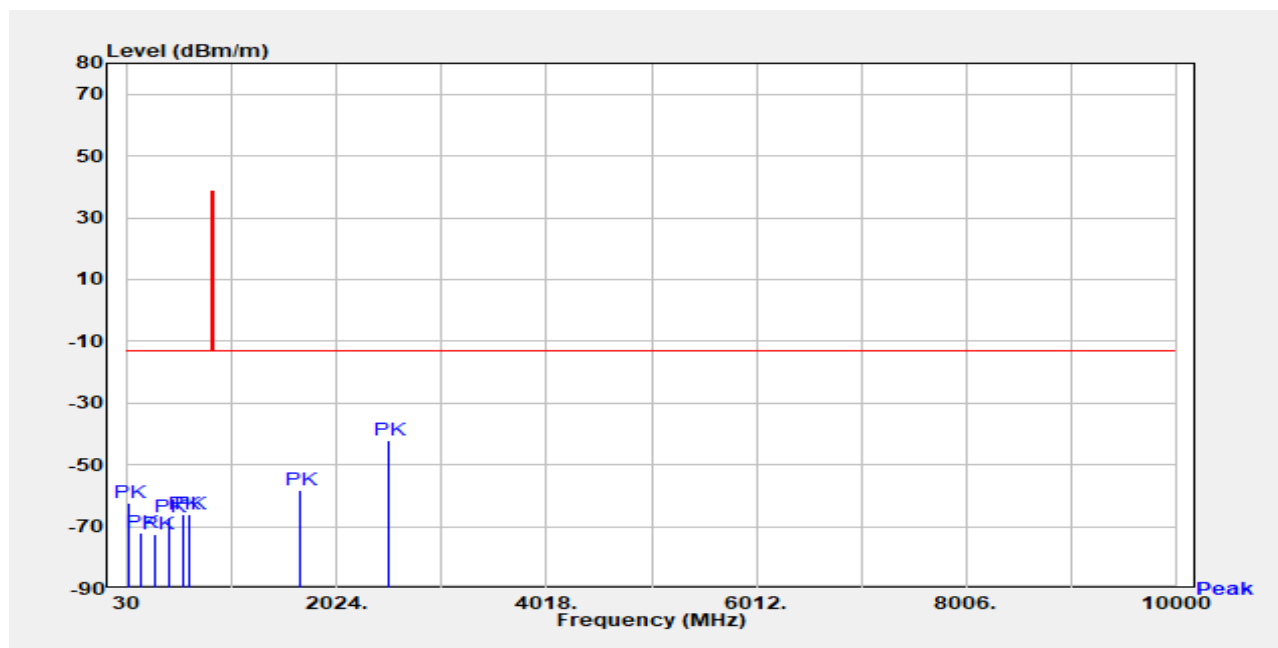
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.013	-60.52	-47.70	-12.06	-0.76	-13.00	-47.52
149.216	-69.78	-66.66	-1.77	-1.36	-13.00	-56.78
252.370	-67.99	-70.36	4.12	-1.74	-13.00	-54.99
431.409	-68.65	-70.33	3.95	-2.27	-13.00	-55.65
548.577	-65.16	-66.87	4.27	-2.55	-13.00	-52.16
606.567	-63.62	-64.62	3.68	-2.68	-13.00	-50.62
1673.200	-50.51	-55.99	9.83	-4.36	-13.00	-37.51
2509.800	-39.07	-44.23	10.60	-5.44	-13.00	-26.07

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Report Number :TERF2404001029ER
Operation Mode :GSM 850
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :836.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



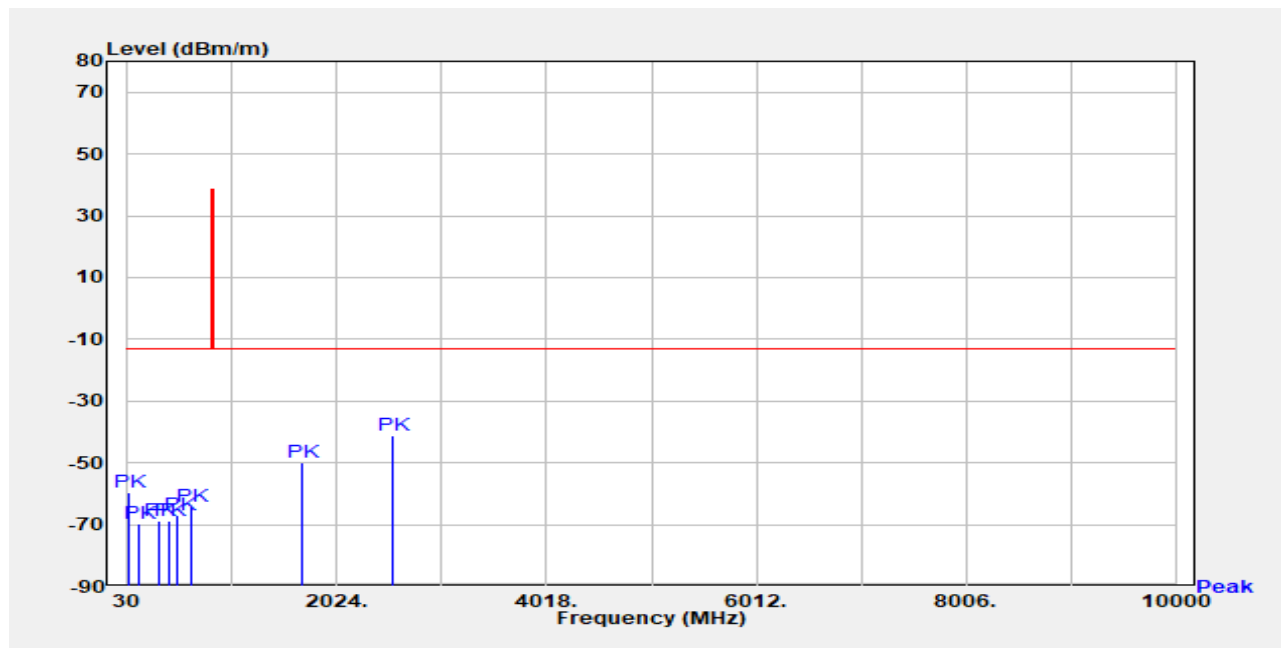
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.336	-62.39	-49.43	-12.19	-0.77	-13.00	-49.39
152.988	-72.10	-69.30	-1.43	-1.37	-13.00	-59.10
300.121	-72.31	-74.54	4.12	-1.89	-13.00	-59.31
416.103	-66.81	-68.61	4.02	-2.22	-13.00	-53.81
552.996	-65.92	-67.64	4.28	-2.57	-13.00	-52.92
624.245	-66.25	-67.14	3.60	-2.72	-13.00	-53.25
1673.200	-58.00	-63.48	9.83	-4.36	-13.00	-45.00
2509.800	-42.25	-47.41	10.60	-5.44	-13.00	-29.25

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Report Number :TERF2404001029ER
Operation Mode :GSM 850
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :848.8 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



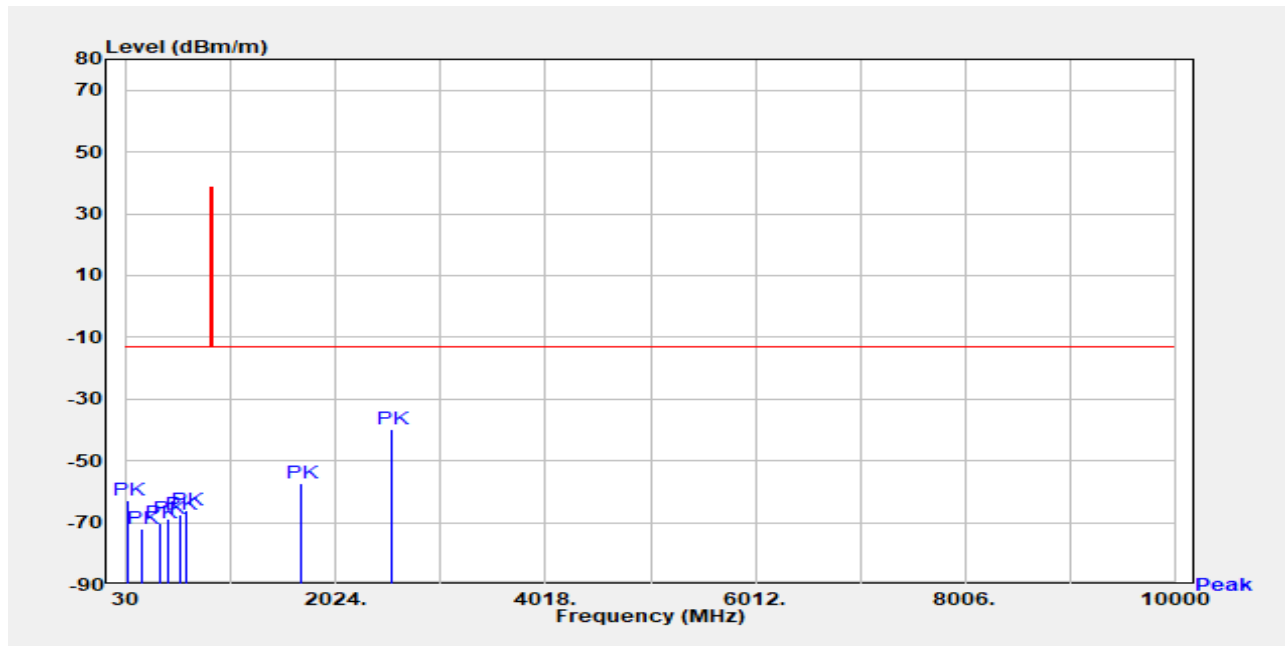
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.120	-59.38	-46.51	-12.10	-0.77	-13.00	-46.38
145.874	-69.50	-66.26	-1.91	-1.34	-13.00	-56.50
327.284	-68.77	-70.79	3.99	-1.97	-13.00	-55.77
429.792	-68.82	-70.50	3.95	-2.27	-13.00	-55.82
510.311	-66.96	-68.63	4.12	-2.46	-13.00	-53.96
626.832	-64.12	-64.99	3.59	-2.72	-13.00	-51.12
1697.600	-50.06	-55.65	9.98	-4.39	-13.00	-37.06
2546.400	-41.24	-46.43	10.66	-5.48	-13.00	-28.24

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Report Number :TERF2404001029ER
Operation Mode :GSM 850
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :848.8 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



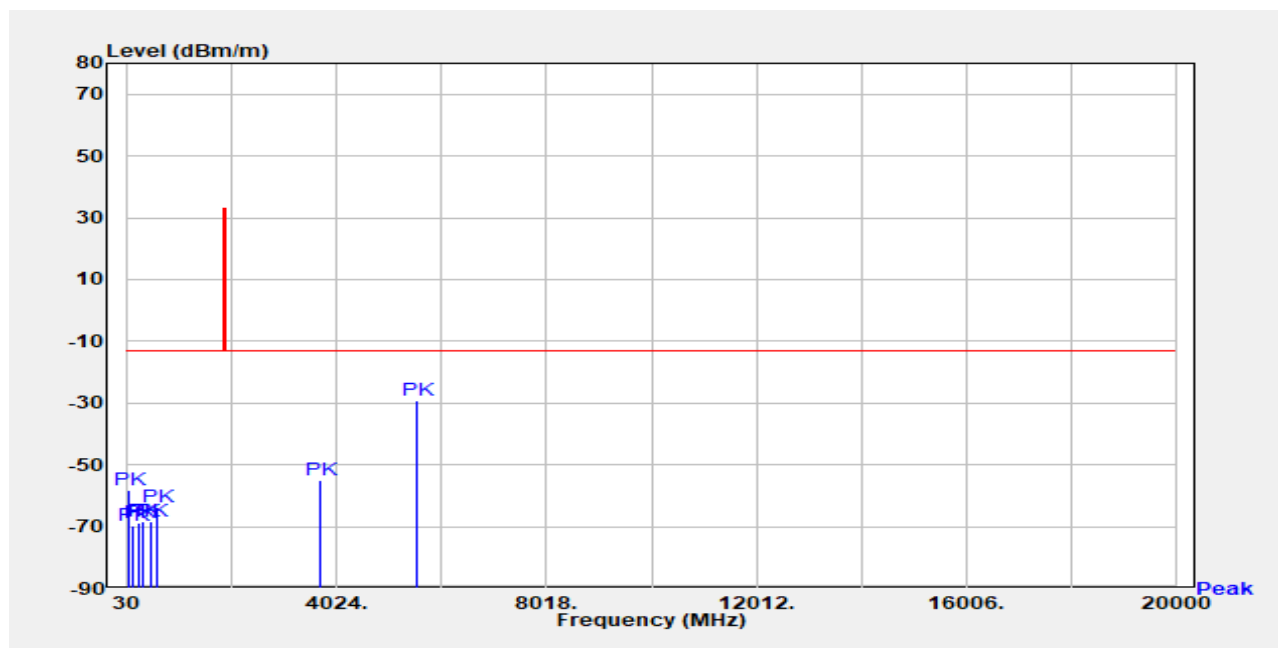
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
38.623	-62.81	-49.07	-13.05	-0.69	-13.00	-49.81
174.762	-71.94	-70.78	0.30	-1.46	-13.00	-58.94
344.423	-70.11	-72.41	4.32	-2.03	-13.00	-57.11
425.481	-68.92	-70.62	3.95	-2.24	-13.00	-55.92
543.079	-67.28	-68.96	4.22	-2.54	-13.00	-54.28
604.412	-66.25	-67.30	3.72	-2.68	-13.00	-53.25
1697.600	-57.33	-62.91	9.98	-4.39	-13.00	-44.33
2546.400	-39.98	-45.17	10.66	-5.48	-13.00	-26.98

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Report Number :TERF2404001029ER
Operation Mode :GSM 1900
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1850.2 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4°C/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



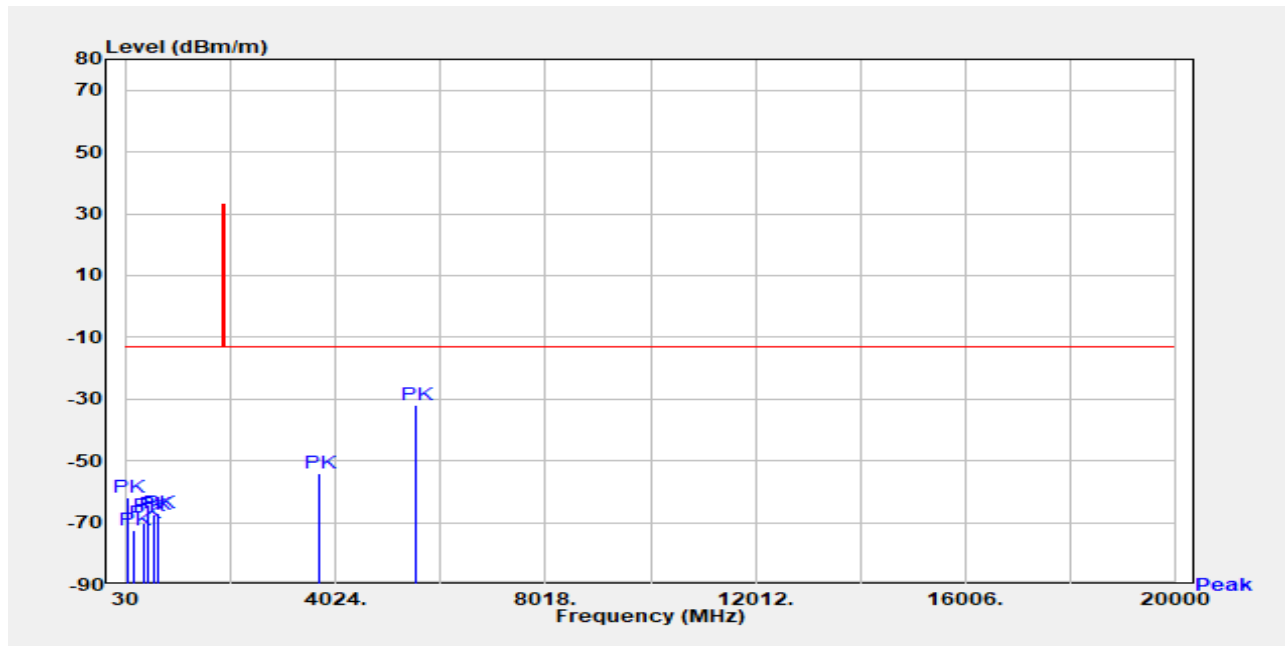
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.295	-58.33	-45.39	-12.17	-0.77	-13.00	-45.33
120.368	-69.61	-67.14	-1.24	-1.23	-13.00	-56.61
235.957	-68.77	-71.32	4.24	-1.69	-13.00	-55.77
334.239	-68.13	-70.19	4.06	-2.01	-13.00	-55.13
472.190	-68.30	-69.99	4.06	-2.37	-13.00	-55.30
582.317	-63.61	-64.91	3.94	-2.63	-13.00	-50.61
3700.400	-55.15	-61.08	12.60	-6.66	-13.00	-42.15
5550.600	-29.27	-34.27	13.20	-8.20	-13.00	-16.27

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Report Number :TERF2404001029ER
Operation Mode :GSM 1900
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1850.2 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



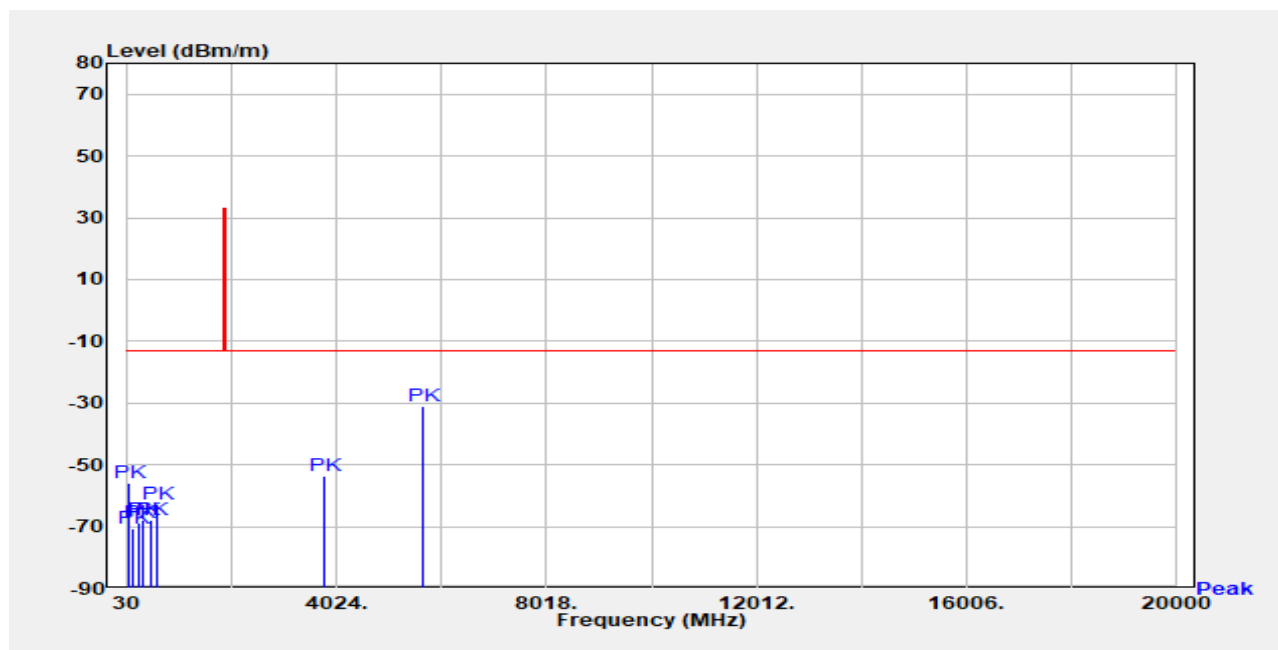
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.551	-61.93	-48.88	-12.28	-0.77	-13.00	-48.93
162.540	-72.50	-70.03	-1.06	-1.42	-13.00	-59.50
346.594	-70.15	-72.49	4.38	-2.04	-13.00	-57.15
450.338	-67.95	-69.58	3.95	-2.31	-13.00	-54.95
546.271	-67.36	-69.04	4.23	-2.55	-13.00	-54.36
633.933	-66.81	-67.70	3.63	-2.74	-13.00	-53.81
3700.400	-54.26	-60.20	12.60	-6.66	-13.00	-41.26
5550.600	-31.73	-36.73	13.20	-8.20	-13.00	-18.73

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Report Number :TERF2404001029ER
Operation Mode :GSM 1900
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4°C/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.295	-55.93	-42.99	-12.17	-0.77	-13.00	-42.93
119.245	-70.85	-68.38	-1.24	-1.23	-13.00	-57.85
236.672	-68.96	-71.46	4.19	-1.69	-13.00	-55.96
321.985	-68.02	-70.11	4.06	-1.96	-13.00	-55.02
486.690	-67.72	-69.40	4.09	-2.41	-13.00	-54.72
594.110	-62.99	-64.11	3.78	-2.66	-13.00	-49.99
3760.000	-53.80	-59.55	12.46	-6.71	-13.00	-40.80
5640.000	-31.24	-36.41	13.48	-8.31	-13.00	-18.24

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t (886-2) 2299-3279

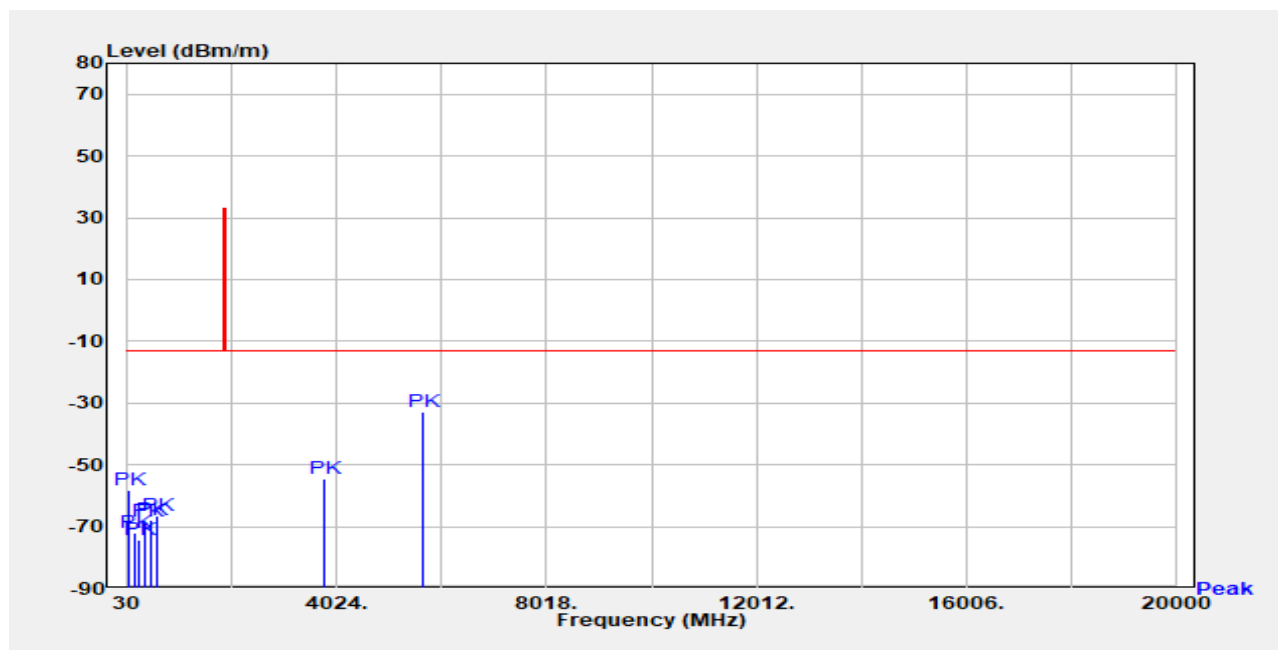
f (886-2) 2298-0488

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Report Number :TERF2404001029ER
Operation Mode :GSM 1900
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
43.785	-58.06	-45.08	-12.22	-0.76	-13.00	-45.06
161.774	-71.89	-69.44	-1.04	-1.41	-13.00	-58.89
237.540	-74.54	-76.98	4.14	-1.70	-13.00	-61.54
378.759	-68.49	-70.56	4.20	-2.13	-13.00	-55.49
460.601	-67.80	-69.49	4.03	-2.34	-13.00	-54.80
596.714	-66.40	-67.50	3.76	-2.66	-13.00	-53.40
3760.000	-54.54	-60.29	12.46	-6.71	-13.00	-41.54
5640.000	-32.92	-38.09	13.48	-8.31	-13.00	-19.92

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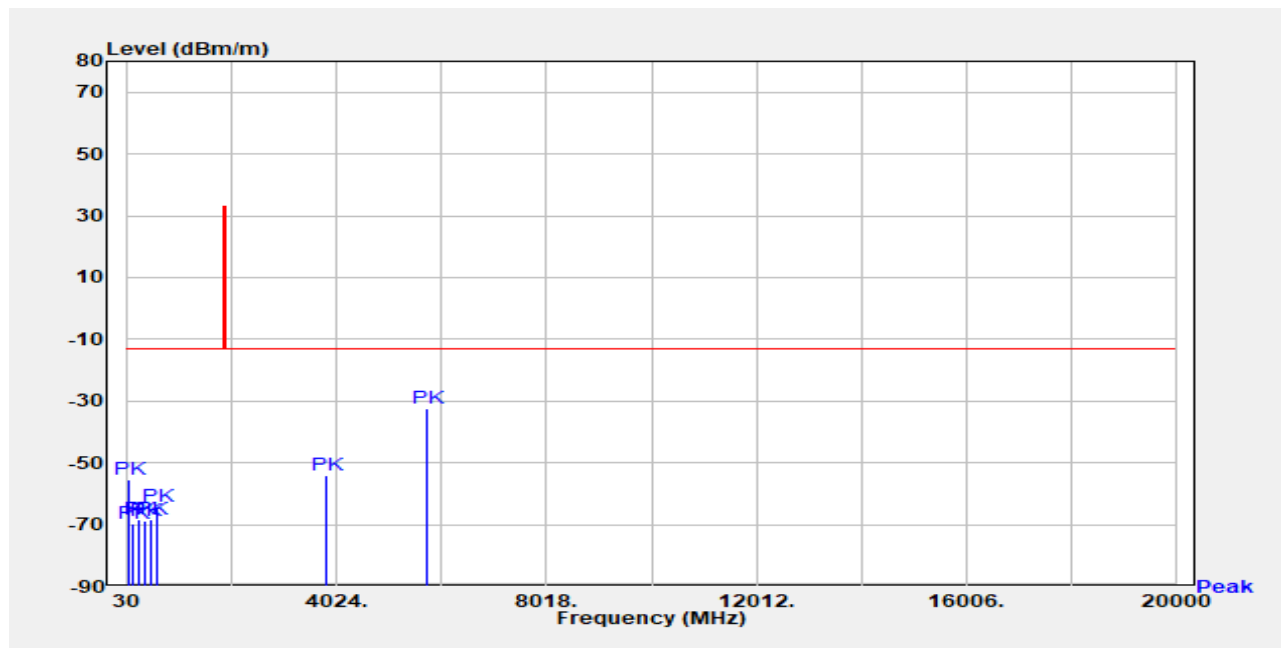
f (886-2) 2298-0488

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Report Number :TERF2404001029ER
Operation Mode :GSM 1900
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1909.8 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.244	-55.63	-42.71	-12.15	-0.77	-13.00	-42.63
134.561	-69.93	-67.04	-1.60	-1.29	-13.00	-56.93
236.366	-68.56	-71.08	4.21	-1.69	-13.00	-55.56
364.412	-68.70	-71.13	4.54	-2.11	-13.00	-55.70
461.622	-68.28	-69.94	4.00	-2.34	-13.00	-55.28
577.415	-64.19	-65.48	3.91	-2.62	-13.00	-51.19
3819.600	-54.14	-59.68	12.30	-6.76	-13.00	-41.14
5729.400	-32.35	-37.21	13.24	-8.39	-13.00	-19.35

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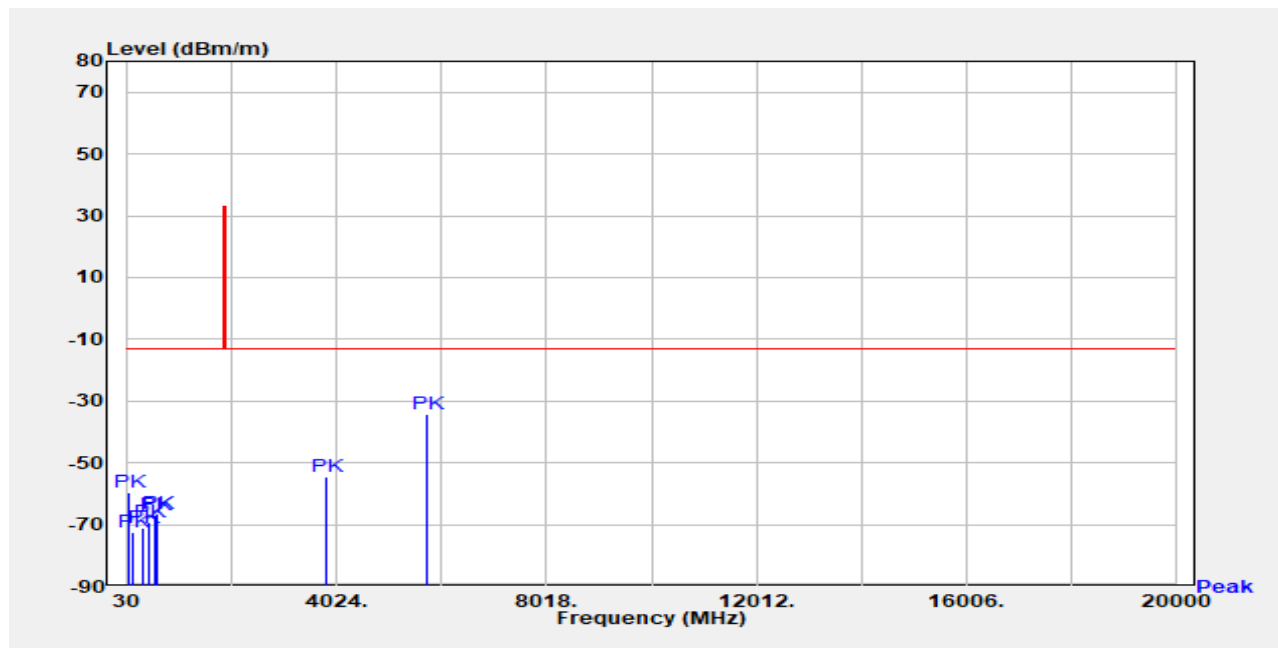
f (886-2) 2298-0488

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Report Number :TERF2404001029ER
Operation Mode :GSM 1900
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1909.8 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



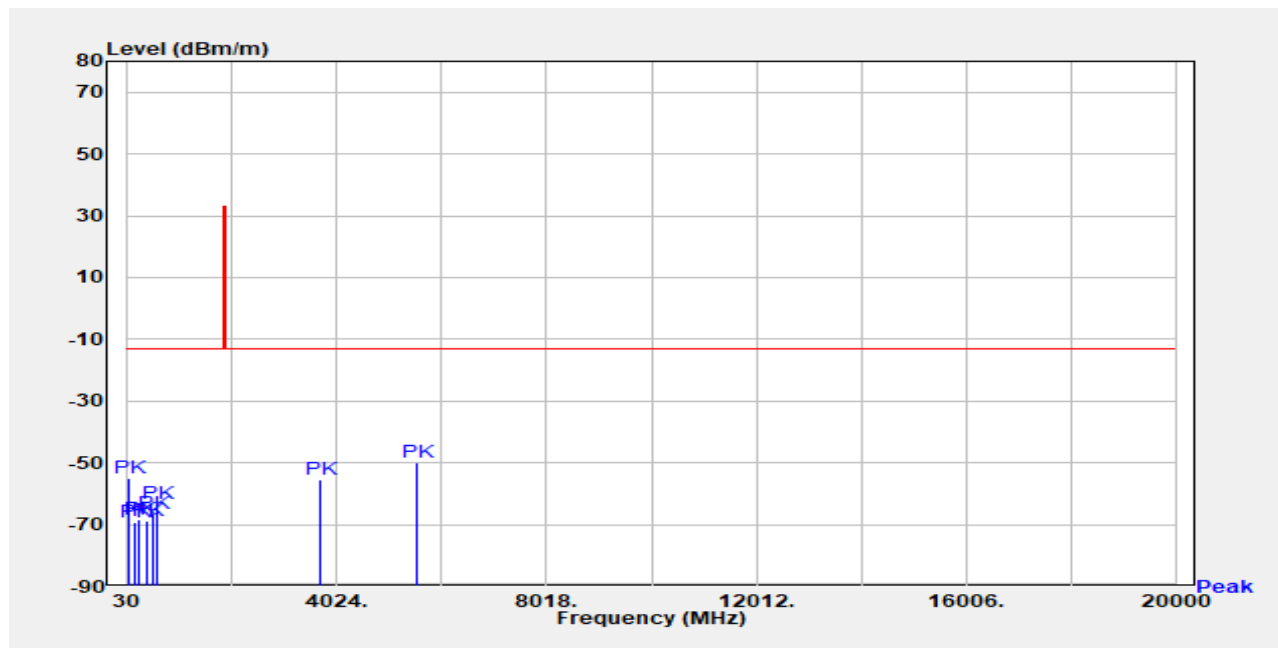
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.244	-59.47	-46.55	-12.15	-0.77	-13.00	-46.47
140.841	-72.46	-69.33	-1.82	-1.31	-13.00	-59.46
322.190	-71.21	-73.30	4.05	-1.96	-13.00	-58.21
426.700	-69.38	-71.08	3.95	-2.25	-13.00	-56.38
535.295	-67.01	-68.73	4.25	-2.52	-13.00	-54.01
600.952	-66.59	-67.66	3.74	-2.66	-13.00	-53.59
3819.600	-54.68	-60.22	12.30	-6.76	-13.00	-41.68
5729.400	-34.23	-39.09	13.24	-8.39	-13.00	-21.23

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1852.4 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



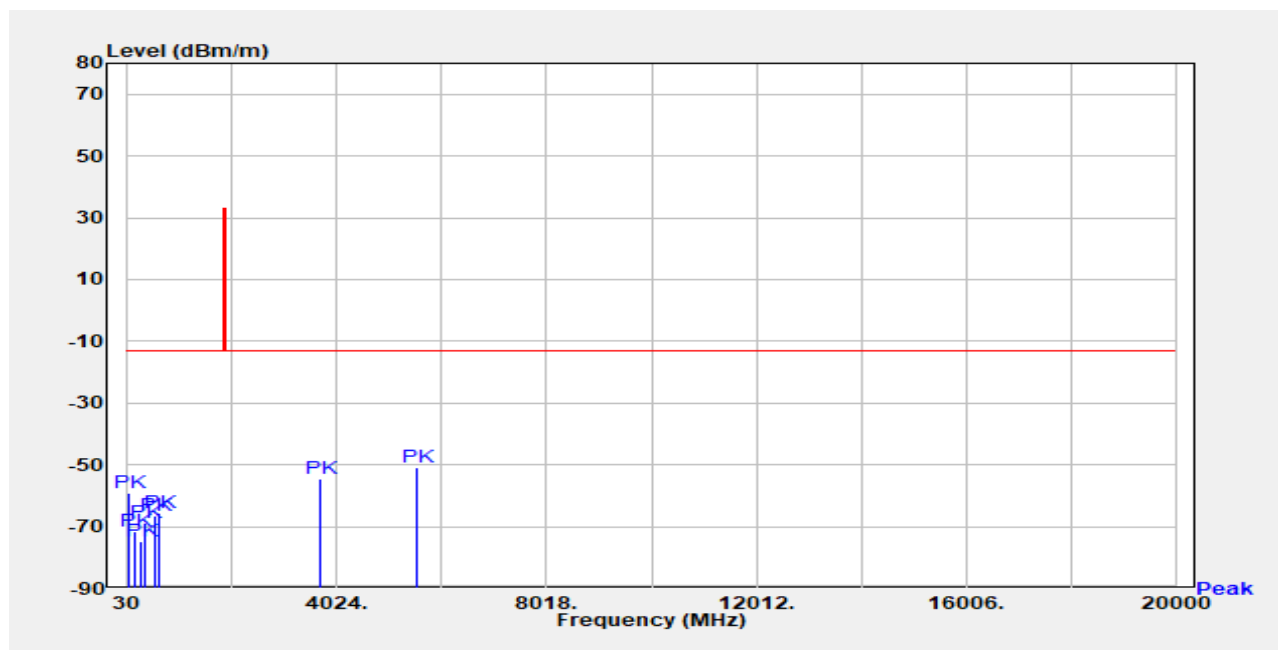
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.551	-55.04	-41.99	-12.28	-0.77	-13.00	-42.04
169.228	-69.24	-67.37	-0.43	-1.45	-13.00	-56.24
259.085	-68.40	-70.83	4.19	-1.76	-13.00	-55.40
382.435	-68.77	-70.82	4.18	-2.13	-13.00	-55.77
503.742	-66.68	-68.40	4.18	-2.45	-13.00	-53.68
603.913	-63.50	-64.55	3.72	-2.68	-13.00	-50.50
3704.800	-55.22	-61.15	12.59	-6.66	-13.00	-42.22
5557.200	-49.97	-54.98	13.23	-8.21	-13.00	-36.97

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1852.4 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.193	-58.94	-46.04	-12.13	-0.77	-13.00	-45.94
153.860	-71.69	-68.77	-1.55	-1.37	-13.00	-58.69
269.194	-74.58	-76.89	4.11	-1.81	-13.00	-61.58
371.050	-68.80	-71.01	4.32	-2.11	-13.00	-55.80
540.043	-66.68	-68.38	4.23	-2.53	-13.00	-53.68
636.588	-65.79	-66.68	3.63	-2.74	-13.00	-52.79
3704.800	-54.45	-60.37	12.59	-6.66	-13.00	-41.45
5557.200	-50.99	-56.01	13.23	-8.21	-13.00	-37.99

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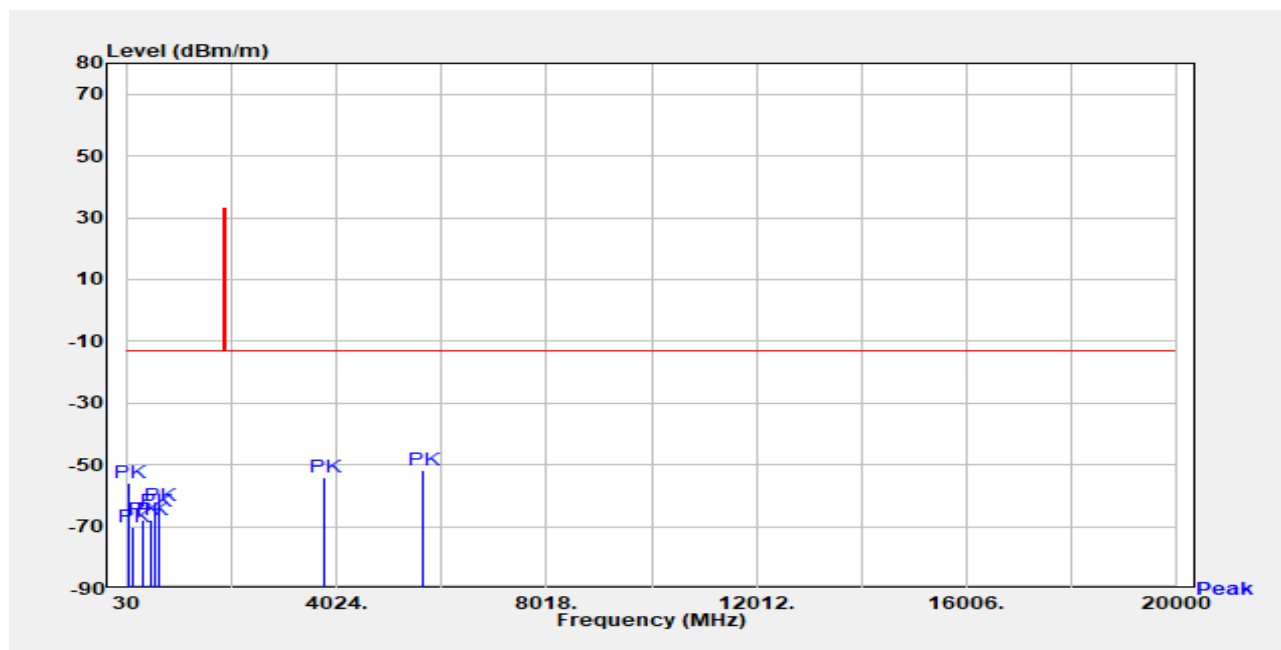
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2404001029ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.142	-56.04	-43.17	-12.11	-0.77	-13.00	-43.04
121.032	-70.24	-67.94	-1.07	-1.23	-13.00	-57.24
316.727	-67.89	-70.01	4.06	-1.95	-13.00	-54.89
470.812	-67.88	-69.55	4.03	-2.37	-13.00	-54.88
549.947	-65.10	-66.83	4.29	-2.56	-13.00	-52.10
634.138	-63.44	-64.33	3.63	-2.74	-13.00	-50.44
3760.000	-54.25	-60.00	12.46	-6.71	-13.00	-41.25
5640.000	-51.97	-57.13	13.48	-8.31	-13.00	-38.97

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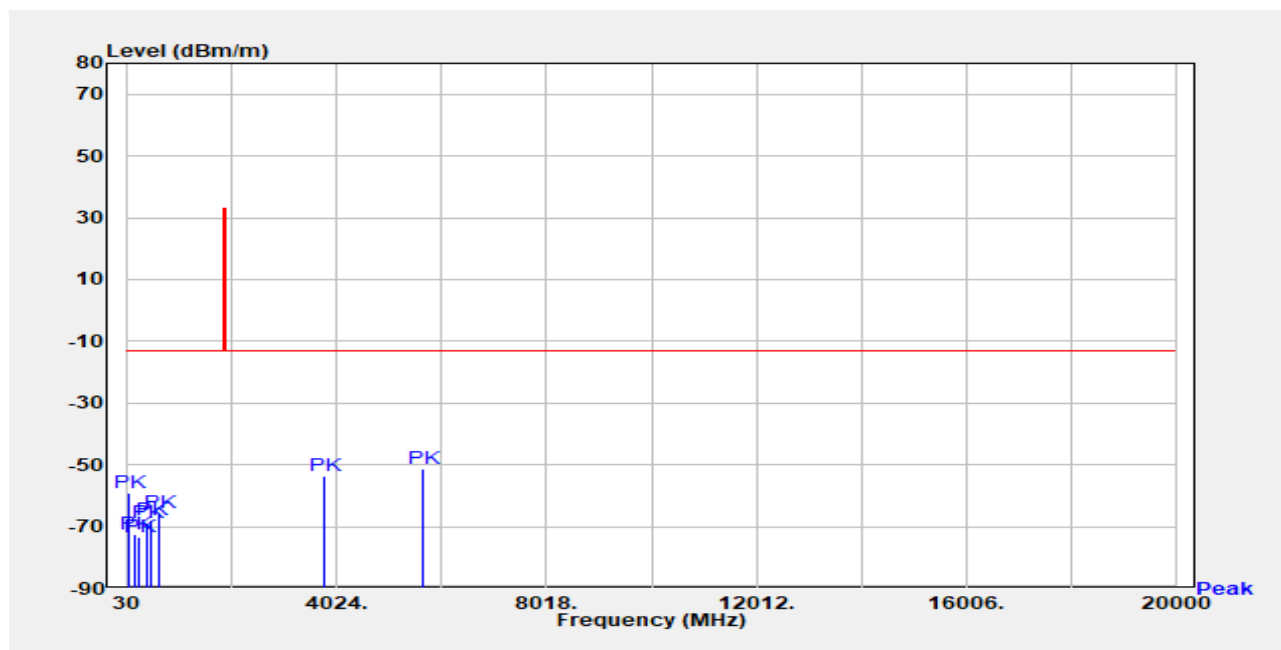
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Report Number :TERF2404001029ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4°C/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.040	-59.31	-46.48	-12.07	-0.76	-13.00	-46.31
157.894	-72.45	-69.70	-1.36	-1.39	-13.00	-59.45
241.420	-73.56	-75.82	3.97	-1.71	-13.00	-60.56
396.577	-68.95	-70.92	4.14	-2.17	-13.00	-55.95
472.088	-67.97	-69.66	4.06	-2.37	-13.00	-54.97
644.655	-65.57	-66.48	3.67	-2.76	-13.00	-52.57
3760.000	-53.71	-59.47	12.46	-6.71	-13.00	-40.71
5640.000	-51.43	-56.59	13.48	-8.31	-13.00	-38.43

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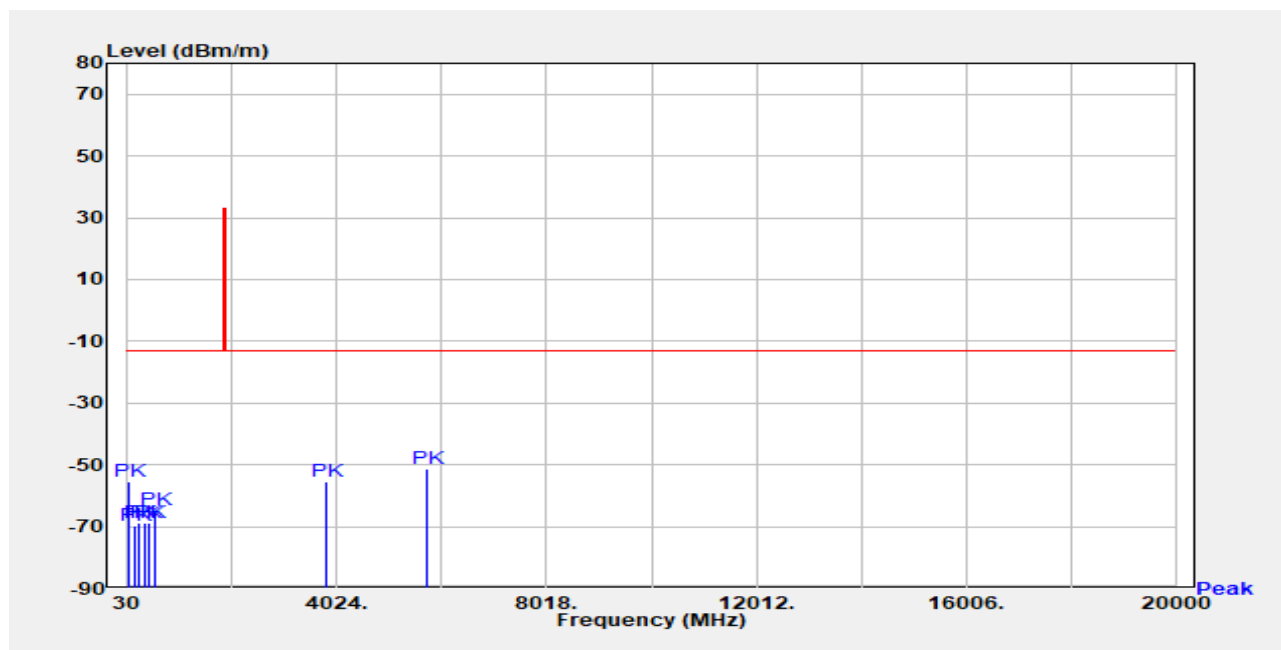
f (886-2) 2298-0488

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1907.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4°C/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



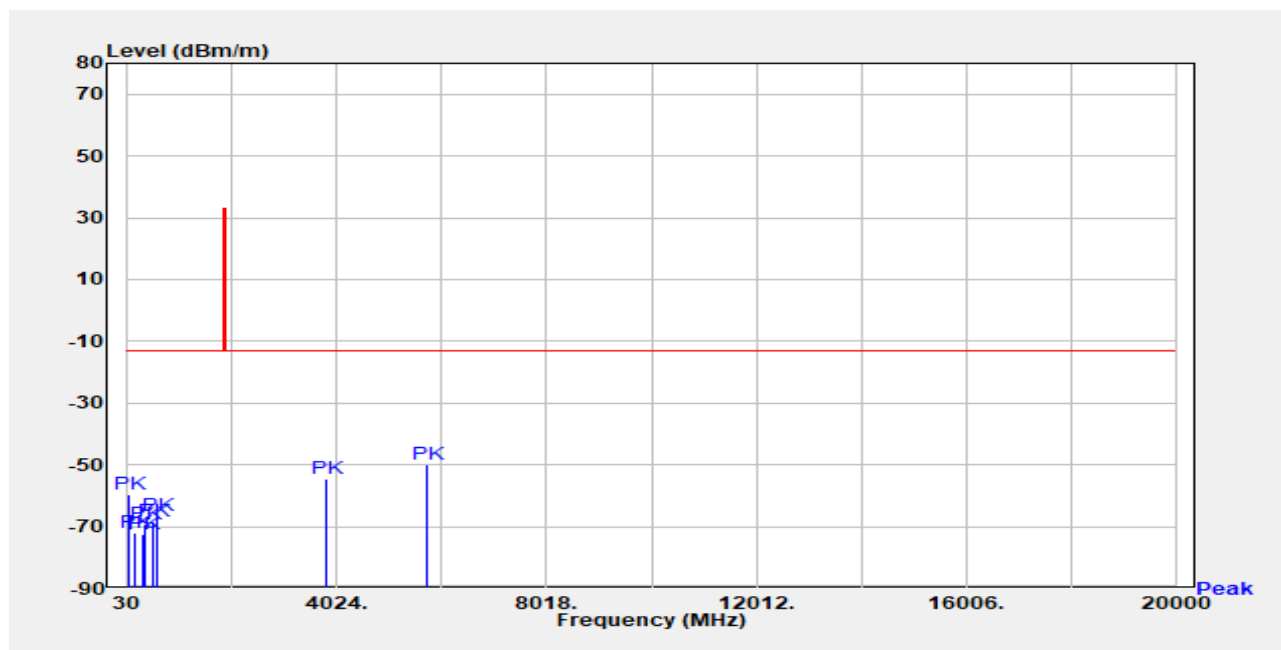
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.091	-55.28	-42.43	-12.09	-0.77	-13.00	-42.28
167.798	-69.89	-67.77	-0.68	-1.44	-13.00	-56.89
236.570	-68.72	-71.23	4.20	-1.69	-13.00	-55.72
371.918	-68.62	-70.82	4.31	-2.11	-13.00	-55.62
449.011	-68.91	-70.54	3.94	-2.31	-13.00	-55.91
562.048	-64.89	-66.53	4.23	-2.58	-13.00	-51.89
3815.200	-55.34	-60.89	12.30	-6.76	-13.00	-42.34
5722.800	-51.12	-55.98	13.25	-8.38	-13.00	-38.12

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1907.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4°C/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



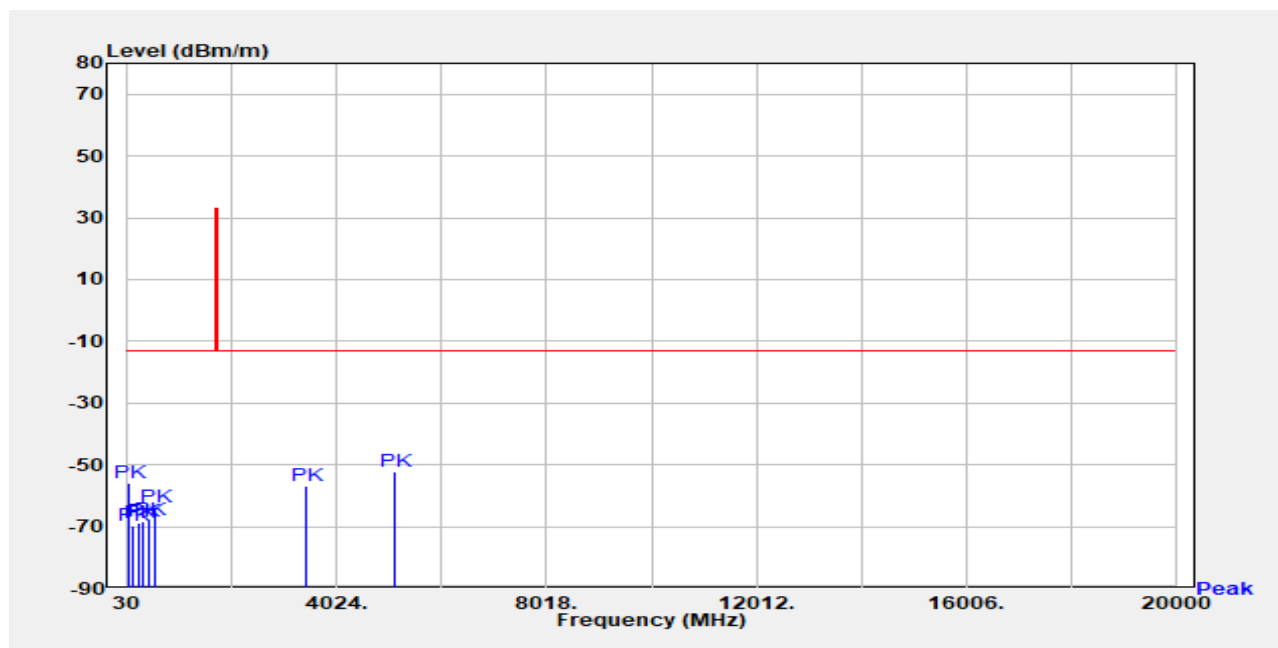
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.295	-59.57	-46.63	-12.17	-0.77	-13.00	-46.57
161.774	-71.86	-69.41	-1.04	-1.41	-13.00	-58.86
307.281	-72.49	-74.72	4.14	-1.92	-13.00	-59.49
375.747	-69.48	-71.61	4.25	-2.12	-13.00	-56.48
497.565	-68.42	-70.19	4.22	-2.44	-13.00	-55.42
594.417	-66.67	-67.78	3.77	-2.66	-13.00	-53.67
3815.200	-54.45	-60.00	12.30	-6.76	-13.00	-41.45
5722.800	-49.73	-54.60	13.25	-8.38	-13.00	-36.73

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1712.4 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



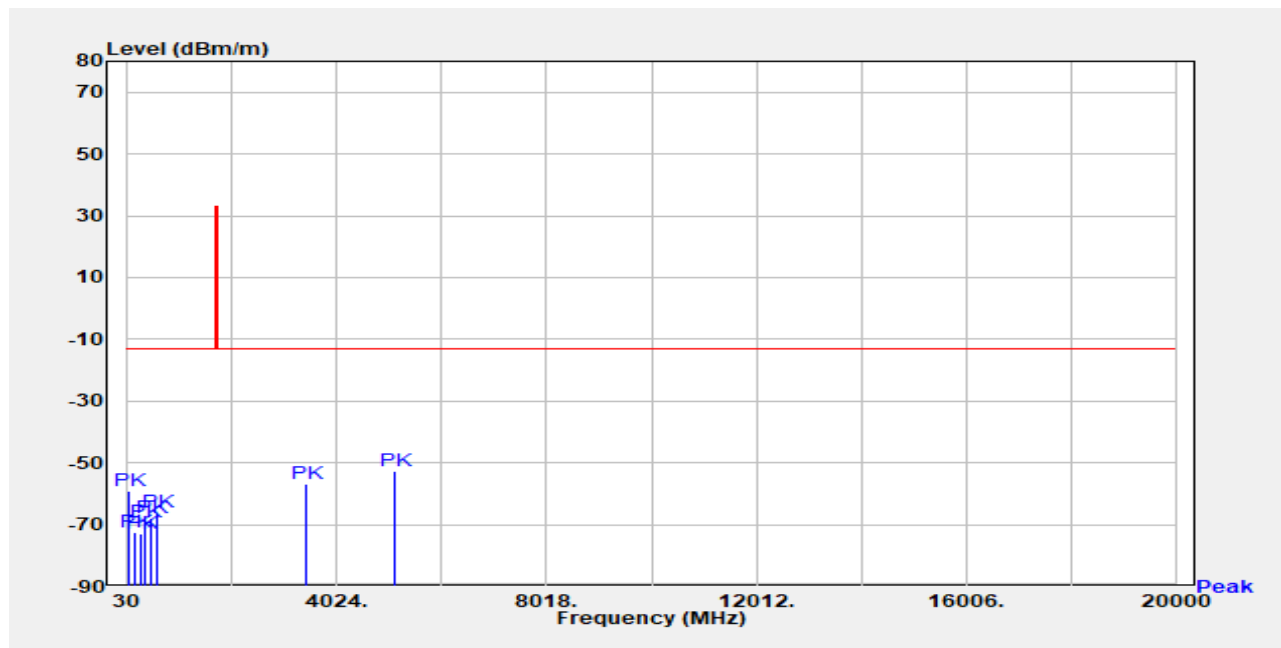
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
43.989	-56.06	-43.23	-12.06	-0.76	-13.00	-43.06
141.250	-69.80	-66.64	-1.85	-1.31	-13.00	-56.80
235.396	-68.73	-71.31	4.27	-1.69	-13.00	-55.73
333.371	-68.30	-70.33	4.04	-2.00	-13.00	-55.30
425.832	-68.06	-69.77	3.95	-2.24	-13.00	-55.06
557.401	-63.97	-65.65	4.26	-2.57	-13.00	-50.97
3424.800	-56.96	-63.12	12.55	-6.39	-13.00	-43.96
5137.200	-52.22	-56.65	12.37	-7.95	-13.00	-39.22

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1712.4 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
43.938	-59.19	-46.33	-12.10	-0.76	-13.00	-46.19
174.691	-72.32	-71.15	0.29	-1.46	-13.00	-59.32
297.734	-72.86	-75.07	4.10	-1.89	-13.00	-59.86
377.329	-69.34	-71.44	4.22	-2.12	-13.00	-56.34
484.290	-67.99	-69.68	4.09	-2.40	-13.00	-54.99
598.960	-66.06	-67.15	3.75	-2.66	-13.00	-53.06
3424.800	-56.70	-62.86	12.55	-6.39	-13.00	-43.70
5137.200	-52.65	-57.08	12.37	-7.95	-13.00	-39.65

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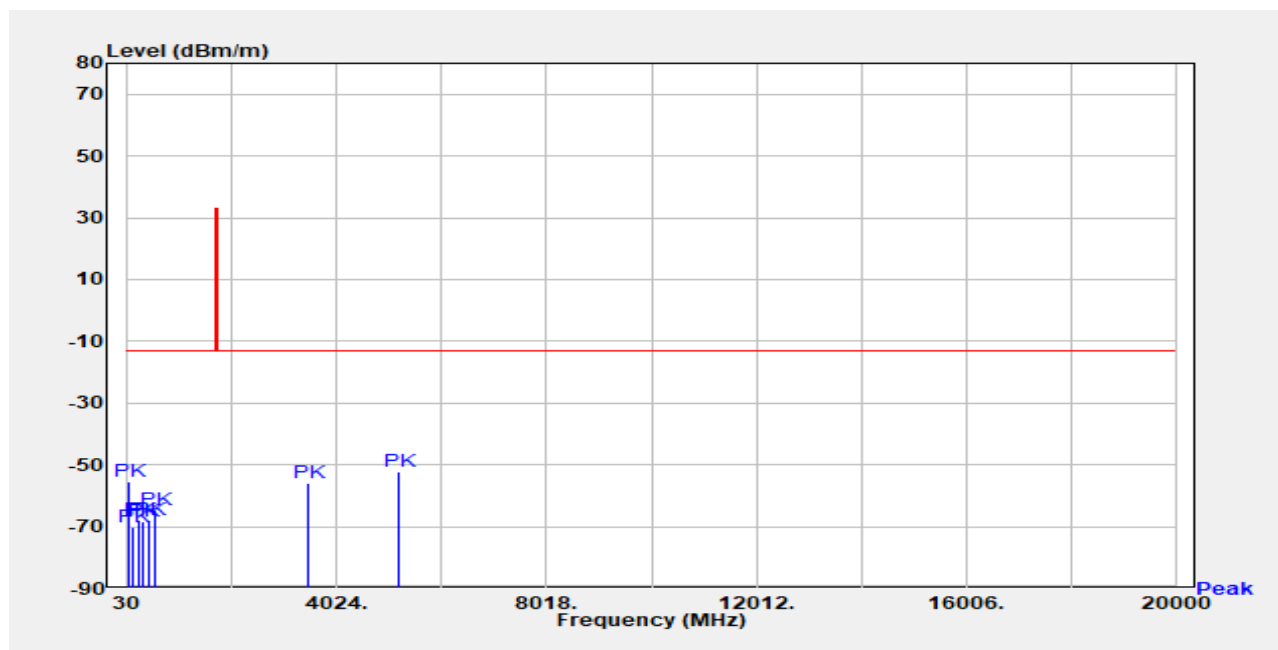
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Report Number :TERF2404001029ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1732.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4°C/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



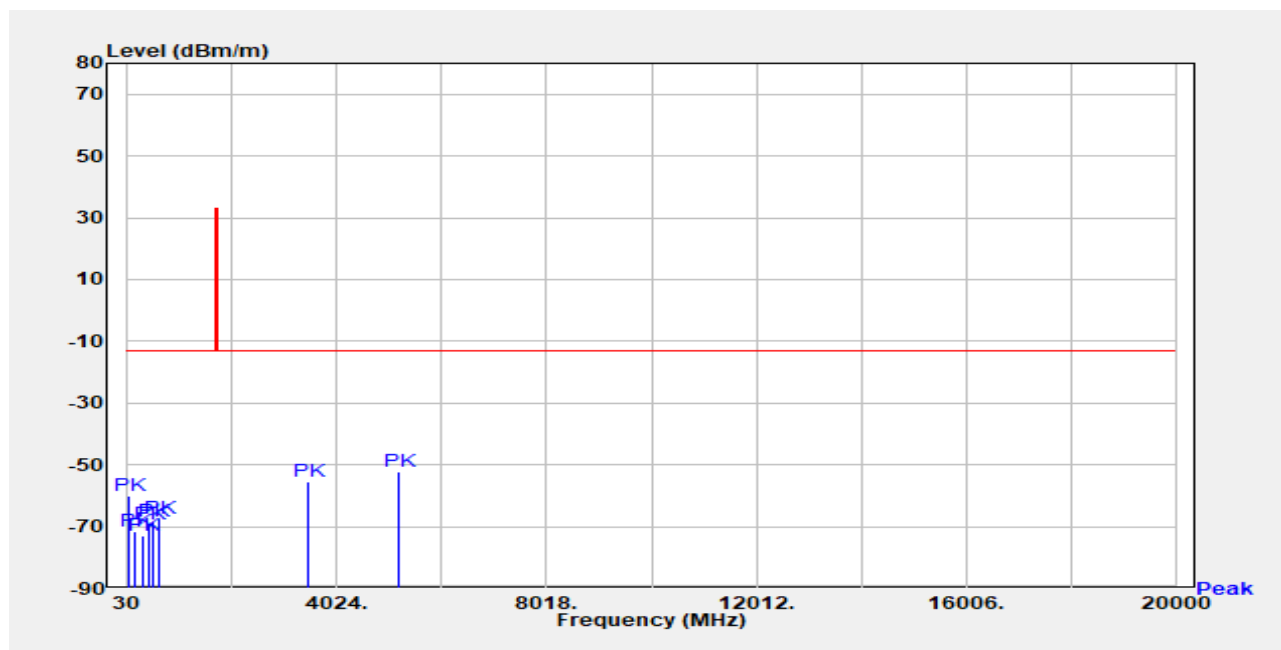
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.449	-55.44	-42.44	-12.23	-0.77	-13.00	-42.44
122.921	-70.41	-67.96	-1.23	-1.23	-13.00	-57.41
243.973	-67.85	-70.09	3.96	-1.72	-13.00	-54.85
319.943	-68.56	-70.68	4.08	-1.96	-13.00	-55.56
431.193	-68.08	-69.76	3.95	-2.27	-13.00	-55.08
562.711	-64.64	-66.28	4.23	-2.59	-13.00	-51.64
3465.200	-56.05	-62.06	12.44	-6.44	-13.00	-43.05
5197.800	-52.37	-57.08	12.69	-7.98	-13.00	-39.37

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1732.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.193	-59.89	-47.00	-12.13	-0.77	-13.00	-46.89
167.288	-71.60	-69.56	-0.61	-1.43	-13.00	-58.60
303.657	-72.89	-75.14	4.16	-1.90	-13.00	-59.89
418.939	-69.06	-70.79	3.96	-2.24	-13.00	-56.06
516.915	-68.26	-69.84	4.05	-2.48	-13.00	-55.26
614.583	-67.21	-68.07	3.56	-2.70	-13.00	-54.21
3465.200	-55.38	-61.38	12.44	-6.44	-13.00	-42.38
5197.800	-52.32	-57.03	12.69	-7.98	-13.00	-39.32

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SGS Taiwan Ltd.

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台灣檢驗科技股份有限公司

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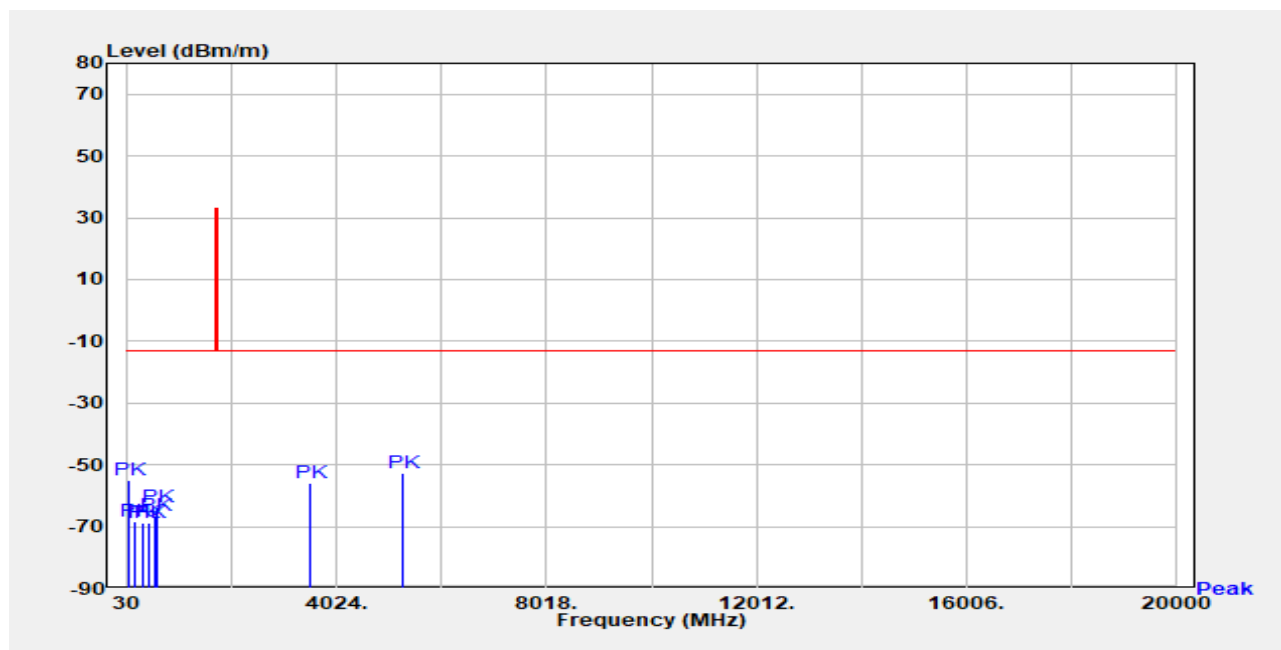
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Report Number :TERF2404001029ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1752.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4°C/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



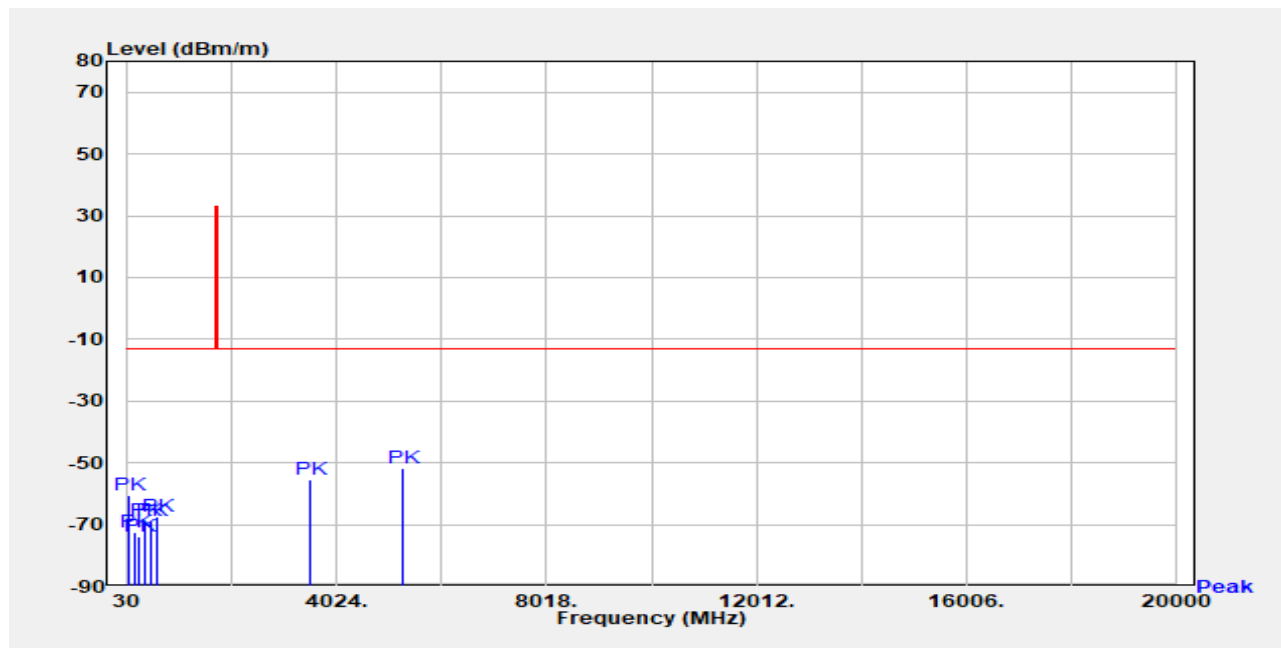
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.295	-55.11	-42.17	-12.17	-0.77	-13.00	-42.11
169.075	-68.31	-66.42	-0.45	-1.44	-13.00	-55.31
312.642	-68.65	-70.79	4.08	-1.94	-13.00	-55.65
437.932	-68.61	-70.27	3.95	-2.29	-13.00	-55.61
540.400	-66.47	-68.17	4.23	-2.53	-13.00	-53.47
591.864	-63.83	-64.97	3.79	-2.65	-13.00	-50.83
3505.200	-55.99	-61.82	12.30	-6.47	-13.00	-42.99
5257.800	-52.84	-57.95	13.12	-8.01	-13.00	-39.84

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Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1752.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4°C/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



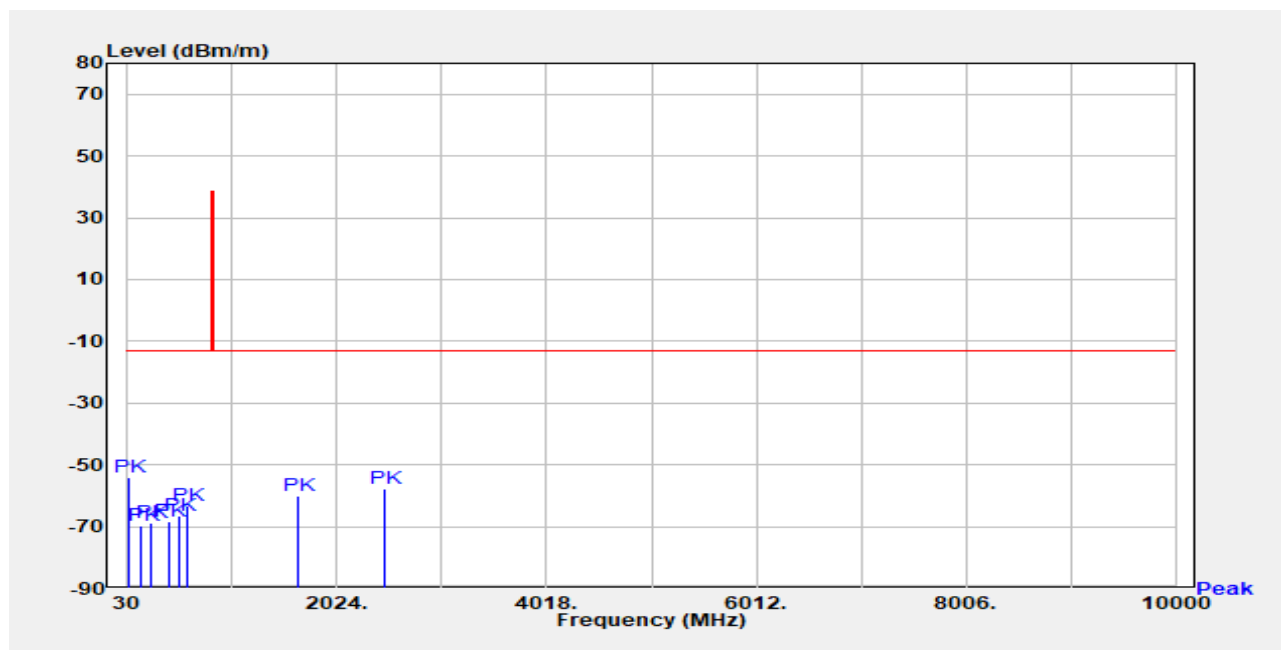
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.091	-60.52	-47.67	-12.09	-0.77	-13.00	-47.52
152.941	-72.52	-69.71	-1.45	-1.37	-13.00	-59.52
261.689	-73.91	-76.30	4.17	-1.77	-13.00	-60.91
362.983	-69.03	-71.50	4.56	-2.09	-13.00	-56.03
466.012	-68.84	-70.43	3.95	-2.35	-13.00	-55.84
578.640	-67.33	-68.64	3.93	-2.62	-13.00	-54.33
3505.200	-55.48	-61.30	12.30	-6.47	-13.00	-42.48
5257.800	-51.61	-56.72	13.12	-8.01	-13.00	-38.61

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :826.4 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



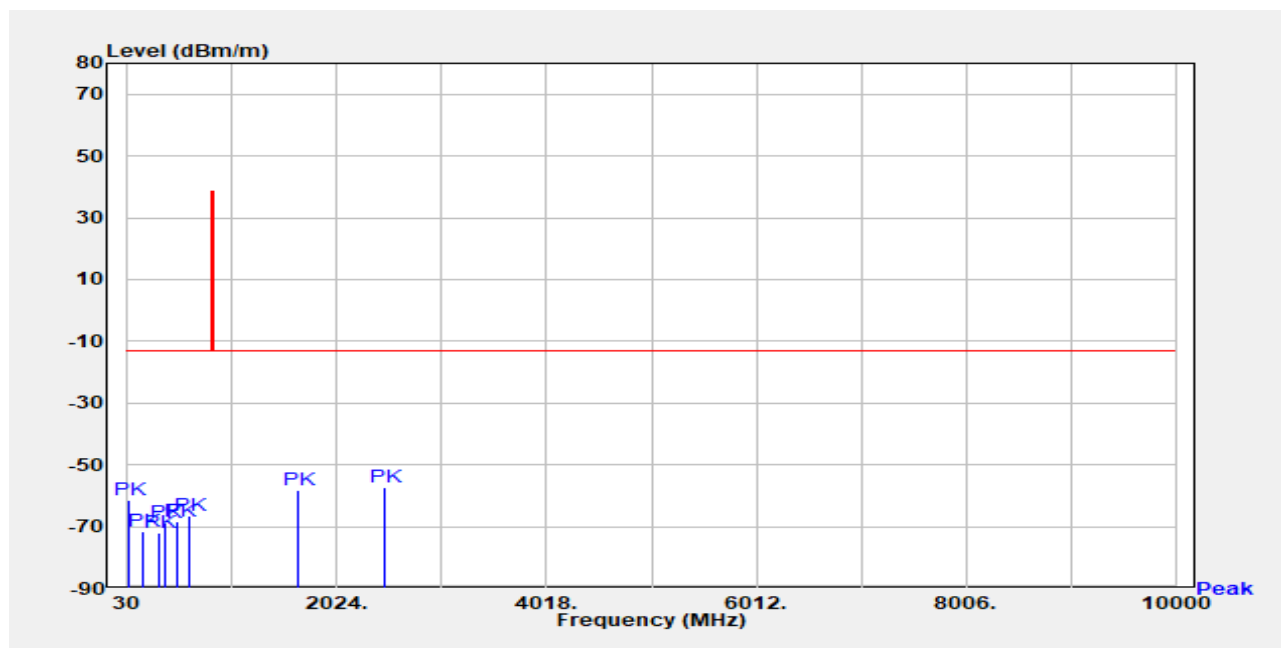
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
43.905	-54.04	-41.15	-12.13	-0.76	-13.00	-41.04
165.707	-69.88	-67.65	-0.81	-1.42	-13.00	-56.88
247.304	-68.58	-70.84	4.00	-1.73	-13.00	-55.58
425.157	-68.41	-70.12	3.95	-2.24	-13.00	-55.41
518.395	-66.30	-67.89	4.07	-2.48	-13.00	-53.30
599.453	-63.24	-64.33	3.74	-2.66	-13.00	-50.24
1652.800	-60.22	-65.41	9.53	-4.33	-13.00	-47.22
2479.200	-57.55	-62.65	10.50	-5.40	-13.00	-44.55

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :826.4 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



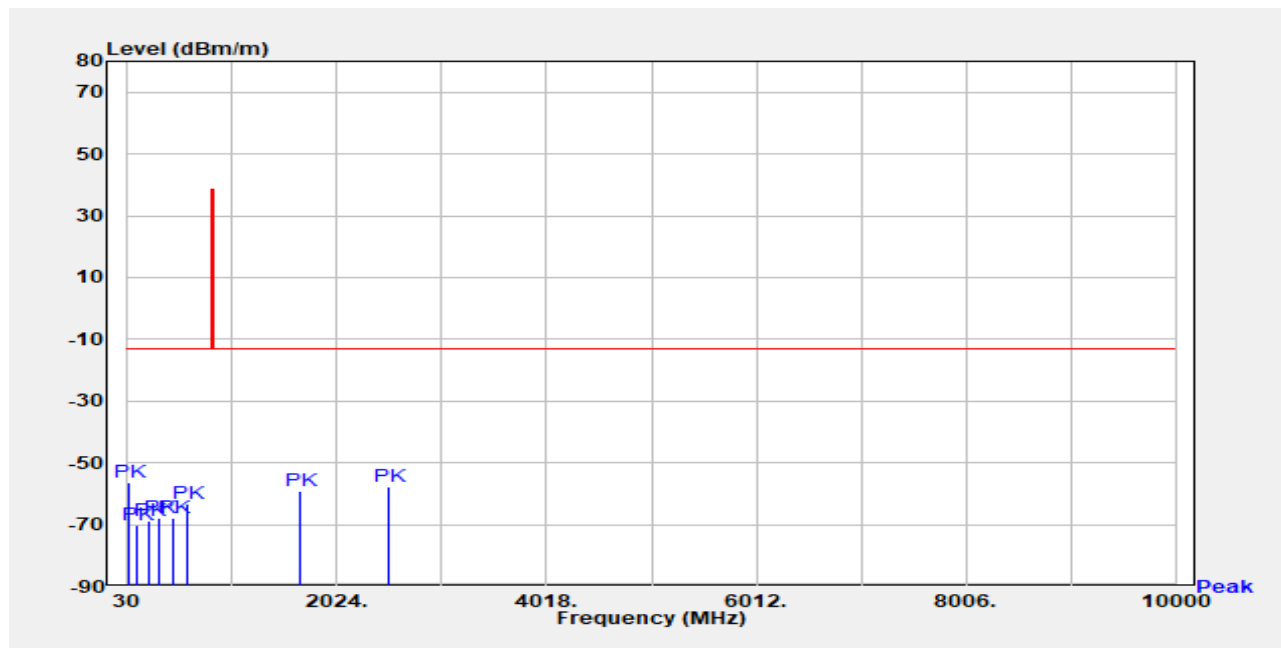
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.444	-61.27	-48.27	-12.23	-0.77	-13.00	-48.27
168.833	-71.76	-69.81	-0.50	-1.44	-13.00	-58.76
322.649	-71.85	-73.94	4.05	-1.96	-13.00	-58.85
378.269	-68.89	-70.97	4.21	-2.13	-13.00	-55.89
510.958	-68.23	-69.88	4.11	-2.46	-13.00	-55.23
606.999	-66.57	-67.56	3.67	-2.68	-13.00	-53.57
1652.800	-58.00	-63.20	9.53	-4.33	-13.00	-45.00
2479.200	-57.42	-62.52	10.50	-5.40	-13.00	-44.42

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :836.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



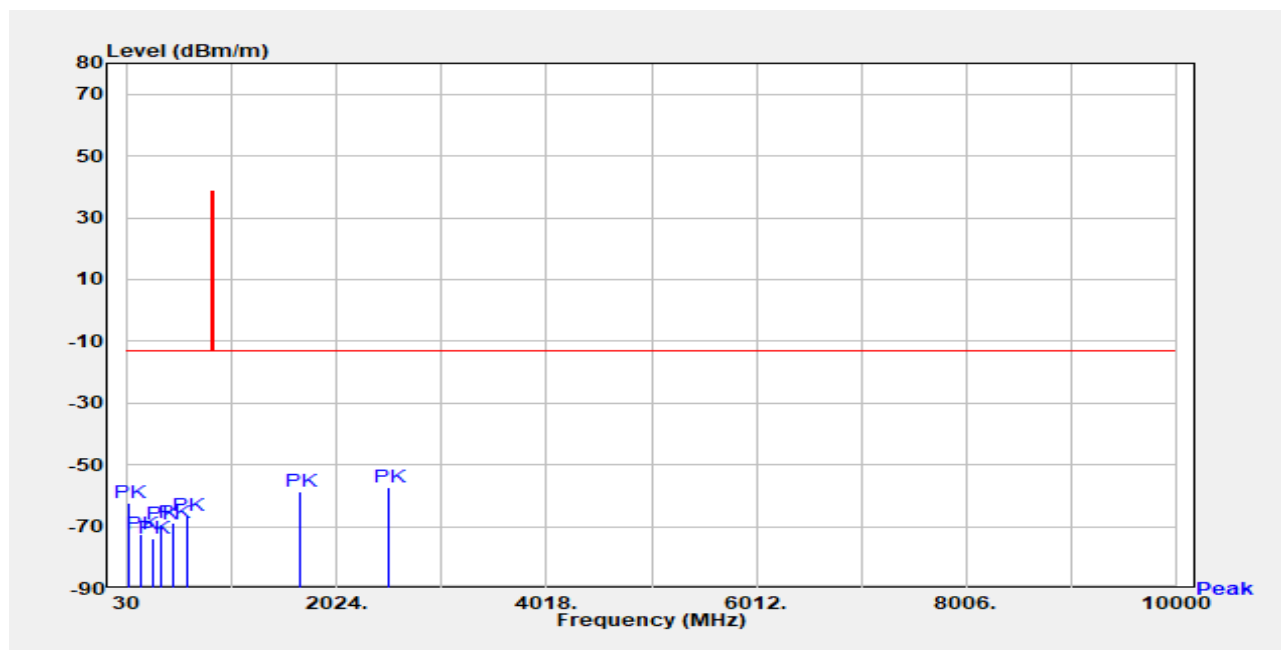
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.228	-56.17	-43.26	-12.14	-0.77	-13.00	-43.17
122.268	-69.96	-67.46	-1.27	-1.23	-13.00	-56.96
234.585	-68.99	-71.65	4.35	-1.69	-13.00	-55.99
320.386	-67.92	-70.04	4.08	-1.96	-13.00	-54.92
471.291	-67.77	-69.45	4.04	-2.37	-13.00	-54.77
599.561	-63.20	-64.28	3.74	-2.66	-13.00	-50.20
1673.200	-59.29	-64.76	9.83	-4.36	-13.00	-46.29
2509.800	-57.67	-62.83	10.60	-5.44	-13.00	-44.67

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :836.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



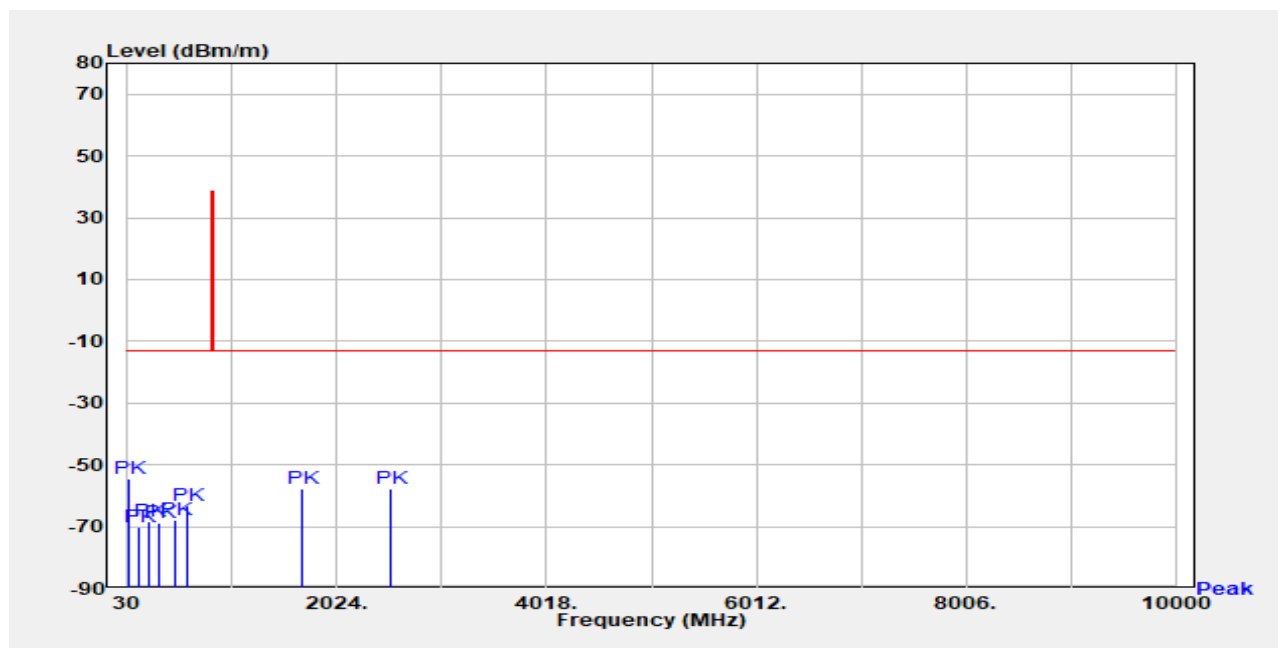
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.013	-62.51	-49.69	-12.06	-0.76	-13.00	-49.51
156.761	-72.35	-69.55	-1.41	-1.38	-13.00	-59.35
264.012	-73.75	-76.11	4.15	-1.78	-13.00	-60.75
340.003	-69.45	-71.65	4.21	-2.01	-13.00	-56.45
469.351	-68.72	-70.37	4.01	-2.37	-13.00	-55.72
592.555	-66.59	-67.72	3.78	-2.66	-13.00	-53.59
1673.200	-58.59	-64.07	9.83	-4.36	-13.00	-45.59
2509.800	-57.35	-62.51	10.60	-5.44	-13.00	-44.35

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :846.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4°C/53%
Antenna Pol. :Vertical
Engineer :Eason Wang



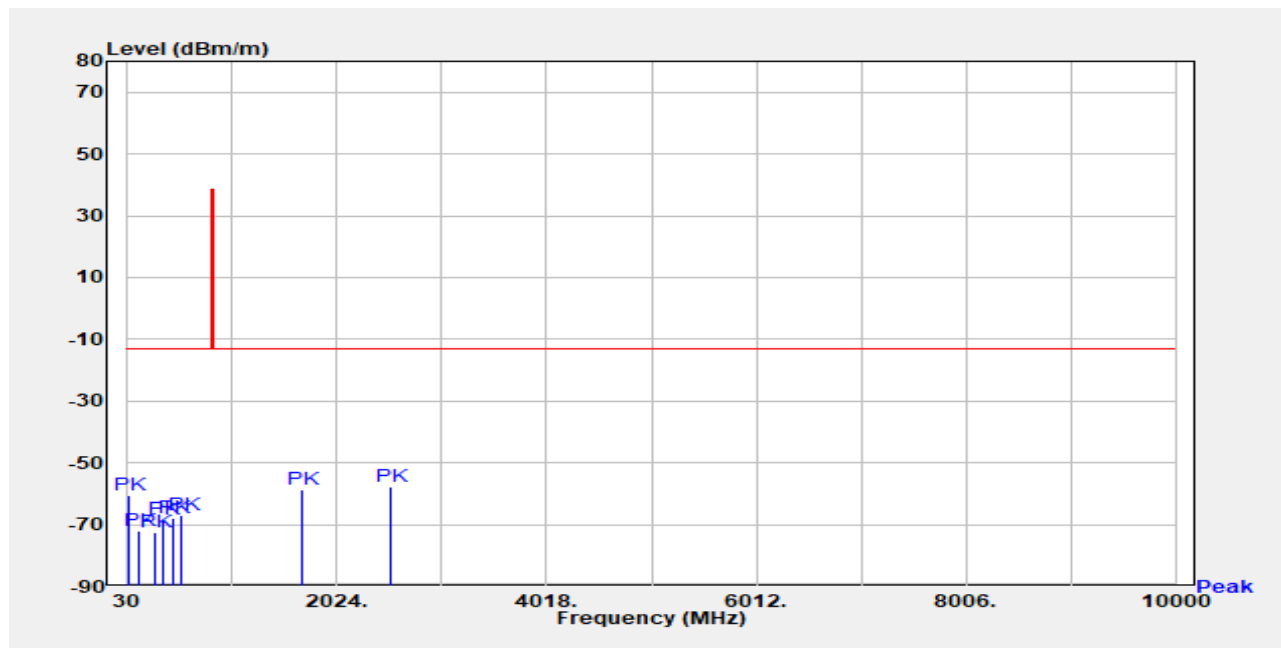
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.444	-54.59	-41.59	-12.23	-0.77	-13.00	-41.59
136.927	-70.09	-67.29	-1.50	-1.30	-13.00	-57.09
235.555	-68.42	-70.99	4.26	-1.69	-13.00	-55.42
330.302	-68.77	-70.75	3.96	-1.98	-13.00	-55.77
480.238	-67.83	-69.53	4.10	-2.40	-13.00	-54.83
594.172	-63.37	-64.49	3.77	-2.66	-13.00	-50.37
1693.200	-57.98	-63.53	9.93	-4.38	-13.00	-44.98
2539.800	-57.80	-62.93	10.60	-5.47	-13.00	-44.80

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Report Number :TERF2404001029ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :846.6 MHz

Test Site :SAC 2
Test Date :2024-05-09
Temp./Humi. :22.4℃/53%
Antenna Pol. :Horizontal
Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
44.336	-60.58	-47.62	-12.19	-0.77	-13.00	-47.58
131.322	-72.21	-69.51	-1.42	-1.28	-13.00	-59.21
288.157	-72.33	-74.48	4.01	-1.86	-13.00	-59.33
375.574	-68.36	-70.49	4.25	-2.12	-13.00	-55.36
464.393	-67.86	-69.45	3.94	-2.35	-13.00	-54.86
549.008	-66.98	-68.70	4.27	-2.56	-13.00	-53.98
1693.200	-58.66	-64.21	9.93	-4.38	-13.00	-45.66
2539.800	-57.67	-62.80	10.60	-5.47	-13.00	-44.67

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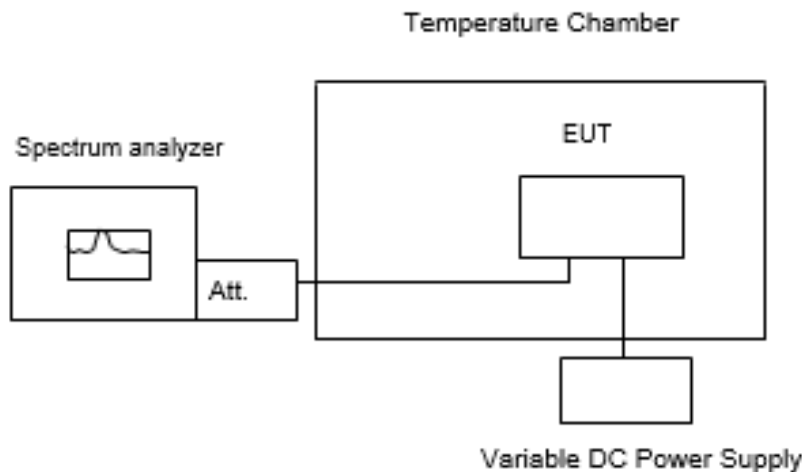
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12 FREQUENCY STABILITY MEASUREMENT

12.1 Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

12.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

12.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

12.4 Measurement Result

Note: The battery is rated 3.89Vdc.

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SGS Taiwan Ltd.

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台灣檢驗科技股份有限公司

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Member of SGS Group

GPRS 850 Mid Channel			836.6000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.4735	20	836.599997	-0.0036	+/- 2.5 ppm
3.89	20	836.5999951	-0.0059	
3.3065	20	836.5999984	-0.0019	
3 (End point)	20	836.6000042	0.0051	
FREQUENCY ERROR vs. Temp.				
3.89	50	836.5999977	-0.0027	+/- 2.5 ppm
3.89	40	836.5999948	-0.0062	
3.89	30	836.5999988	-0.0015	
3.89	20	836.5999986	-0.0017	
3.89	10	836.6000028	0.0033	
3.89	0	836.6000063	0.0075	
3.89	-10	836.6000025	0.0030	
3.89	-20	836.5999999	-0.0001	
3.89	-30	836.5999963	-0.0044	
GPRS 1900 Mid Channel			1880.0000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.4735	20	1879.999997	-0.0015	+/- 2.5 ppm
3.89	20	1879.999998	-0.0009	
3.3065	20	1879.999999	-0.0007	
3 (End point)	20	1880.000007	0.0038	
FREQUENCY ERROR vs. Temp.				
3.89	50	1880.000007	0.0035	+/- 2.5 ppm
3.89	40	1879.999998	-0.0010	
3.89	30	1880.000001	0.0003	
3.89	20	1879.999996	-0.0020	
3.89	10	1880.000006	0.0033	
3.89	0	1880.000003	0.0016	
3.89	-10	1879.999996	-0.0020	
3.89	-20	1880.000003	0.0017	
3.89	-30	1880.000003	0.0017	

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WCDMA II Mid Channel			1880.0000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.4735	20	1879.999994	-0.0032	+/- 2.5 ppm
3.89	20	1879.999996	-0.0023	
3.3065	20	1879.999998	-0.0008	
3 (End point)	20	1880	-0.0001	
FREQUENCY ERROR vs. Temp.				
3.89	50	1880.000002	0.0009	+/- 2.5 ppm
3.89	40	1880.000006	0.0030	
3.89	30	1880.000007	0.0039	
3.89	20	1879.999998	-0.0013	
3.89	10	1880.000004	0.0023	
3.89	0	1879.999996	-0.0022	
3.89	-10	1880.000002	0.0011	
3.89	-20	1880.000001	0.0004	
3.89	-30	1880.000007	0.0035	
WCDMA IV Mid Channel			1732.6000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.4735	20	1732.600002	0.0014	+/- 2.5 ppm
3.89	20	1732.6	0.0001	
3.3065	20	1732.599996	-0.0023	
3 (End point)	20	1732.599995	-0.0027	
FREQUENCY ERROR vs. Temp.				
3.89	50	1732.599998	-0.0012	+/- 2.5 ppm
3.89	40	1732.600002	0.0014	
3.89	30	1732.600003	0.0015	
3.89	20	1732.599995	-0.0029	
3.89	10	1732.599997	-0.0019	
3.89	0	1732.600007	0.0041	
3.89	-10	1732.6	-0.0003	
3.89	-20	1732.600006	0.0034	
3.89	-30	1732.600004	0.0023	

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WCDMA V Mid Channel			836.6000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.4735	20	836.6000074	0.0088	+/- 2.5 ppm
3.89	20	836.5999978	-0.0026	
3.3065	20	836.5999949	-0.0060	
3 (End point)	20	836.6000038	0.0046	
FREQUENCY ERROR vs. Temp.				
3.89	50	836.6000033	0.0040	+/- 2.5 ppm
3.89	40	836.6000009	0.0011	
3.89	30	836.599997	-0.0036	
3.89	20	836.6000037	0.0044	
3.89	10	836.5999975	-0.0030	
3.89	0	836.5999971	-0.0035	
3.89	-10	836.6000069	0.0082	
3.89	-20	836.6000002	0.0003	
3.89	-30	836.600002	0.0024	

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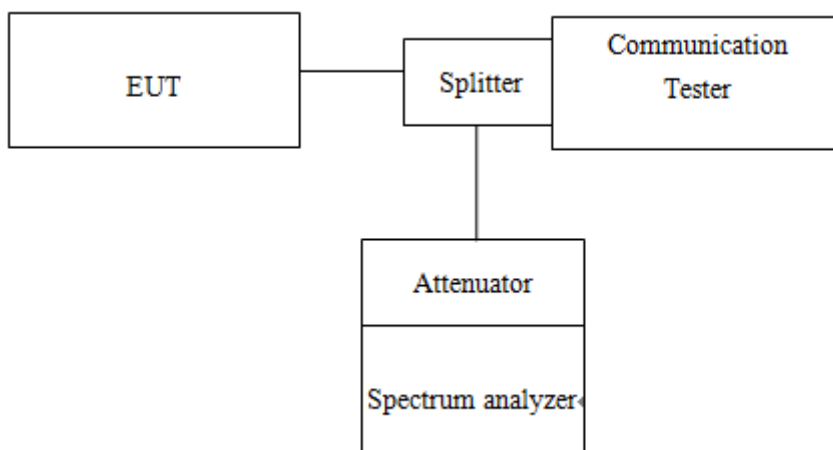
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13 PEAK TO AVERAGE RATIO

13.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

13.2 Test SET-UP



13.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4 Measurement Result

Freq. (MHz)	CH	Peak-to-Average	
		GSM 850	GPRS 850
824.2	128	7.98	8.70
836.6	190	8.57	7.98
848.8	251	7.87	8.47
Freq. (MHz)	CH	Peak-to-Average	
		GSM 1900	GPRS 1900
1850.2	512	8.71	8.33
1880	661	8.72	8.92
1909.8	810	8.98	8.57

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Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	2.75	3.92	4.44
1880	9400	2.77	3.49	3.94
1907.6	9538	2.74	3.32	4.04
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.93	3.90	4.39
1732.6	1413	2.84	3.78	4.18
1752.6	1513	2.95	4.49	4.46
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	2.51	4.04	3.94
836.6	4183	3.02	3.88	4.28
846.6	4233	2.75	3.72	3.99

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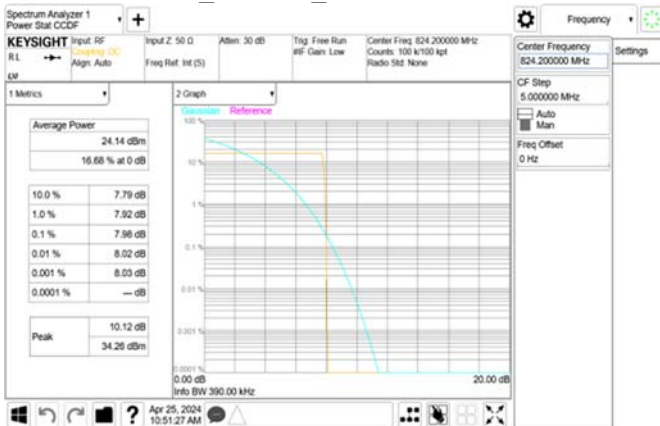
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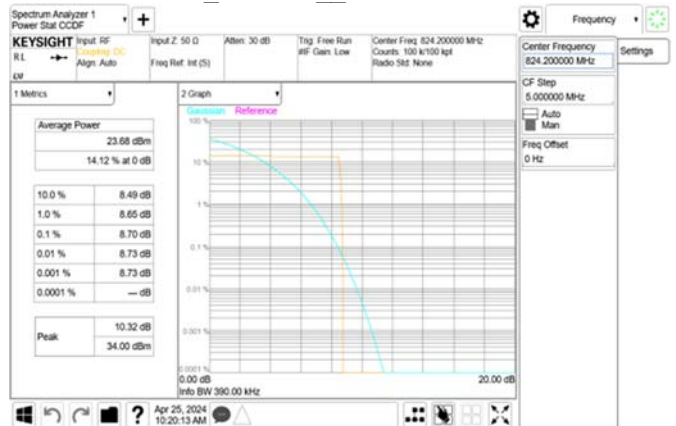
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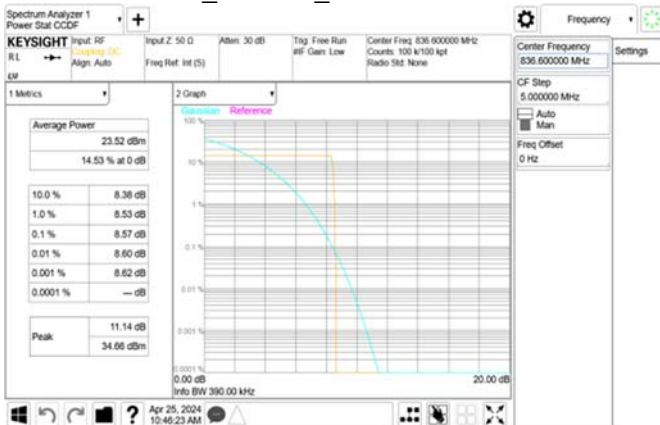
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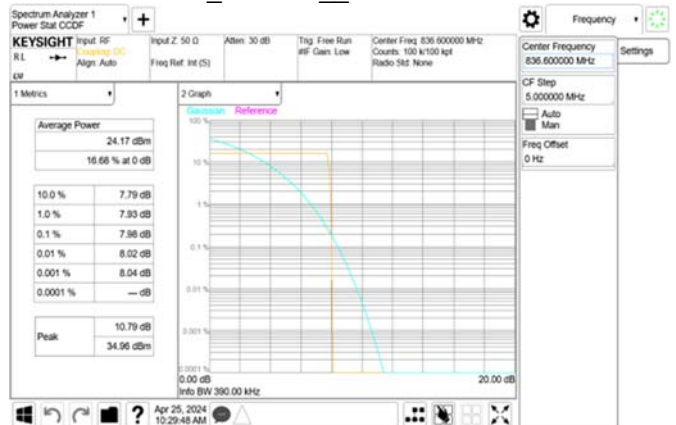
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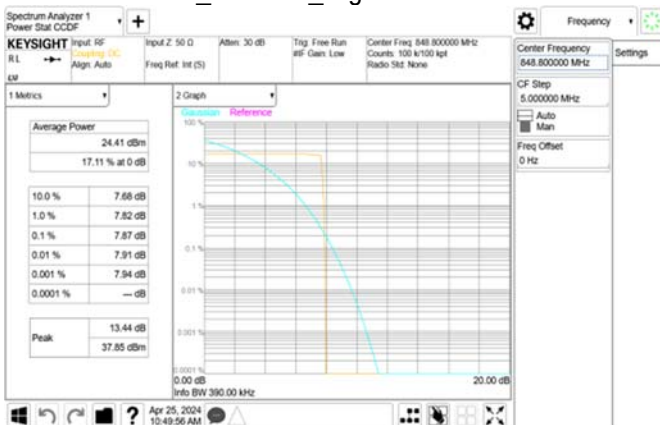
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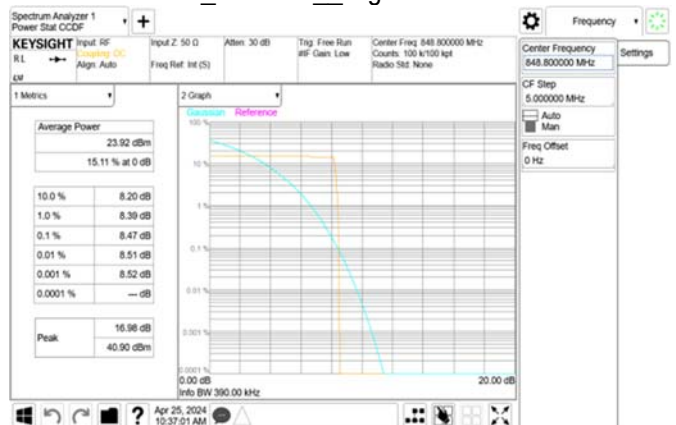
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GSM_850MHz_HighCH251-848.8



GPRS_850MHz_HighCH251-848.8



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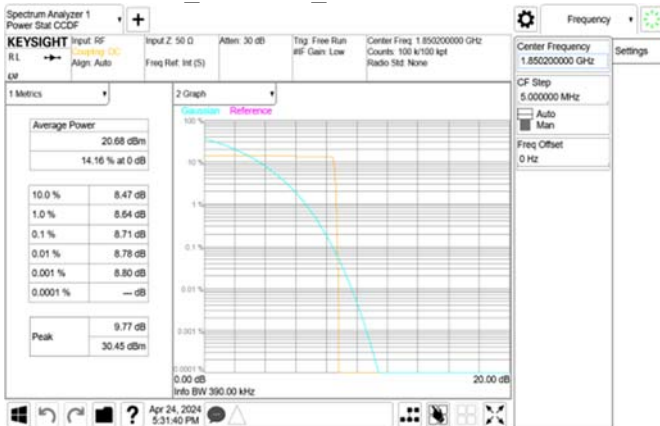
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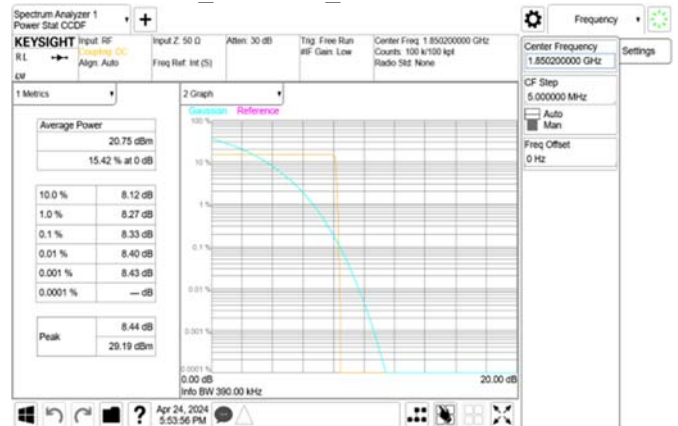
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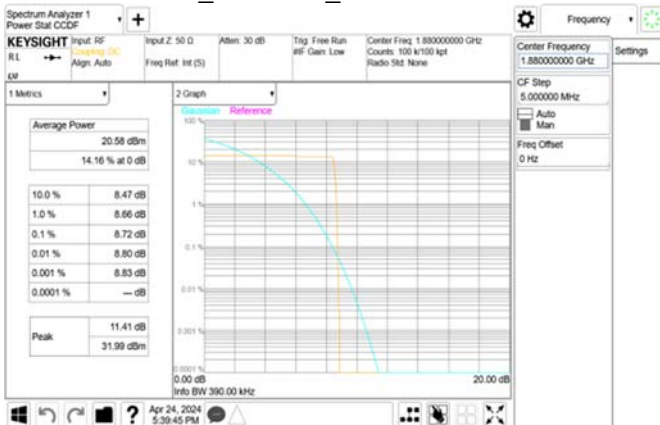
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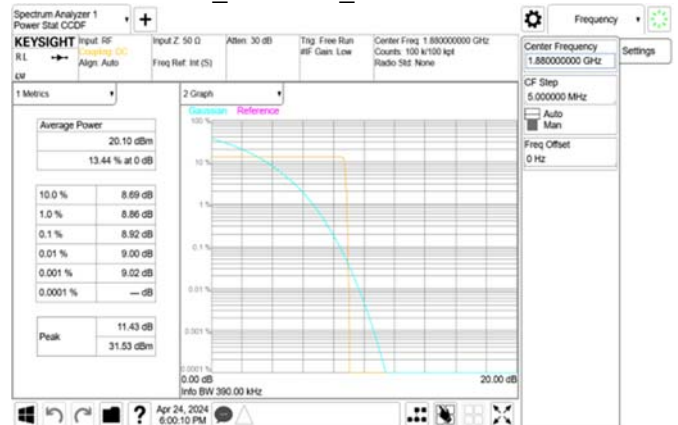
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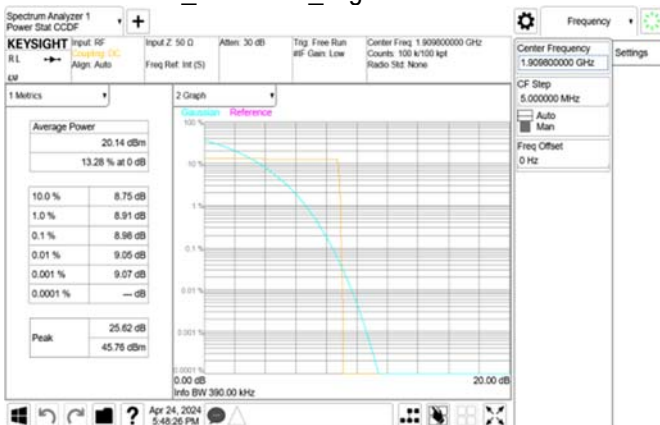
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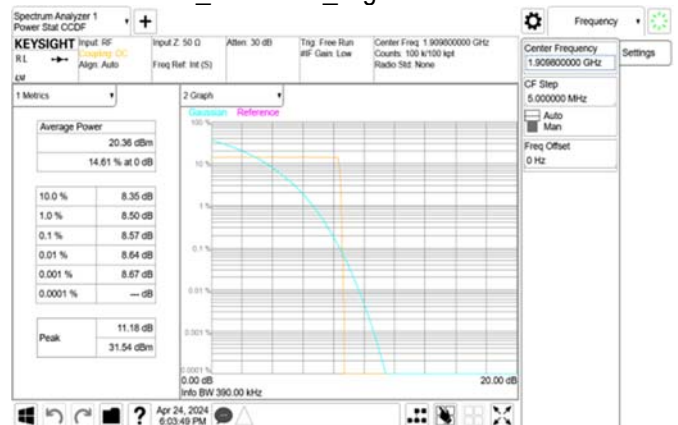
GPRS_1900MHz_MidCH661-1880



GSM_1900MHz_HighCH810-1909.8



GPRS_1900MHz_HighCH810-1909.8



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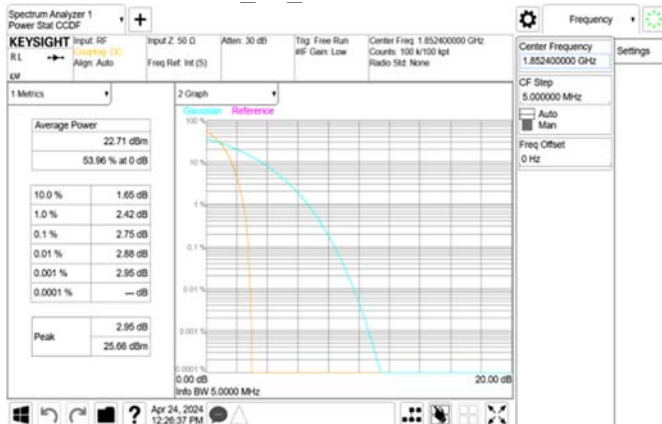
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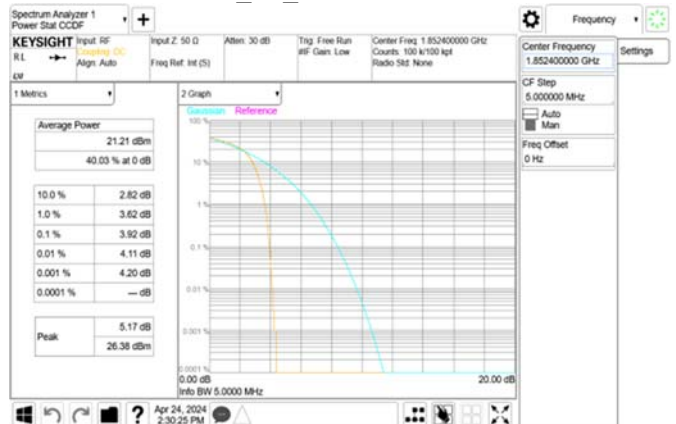
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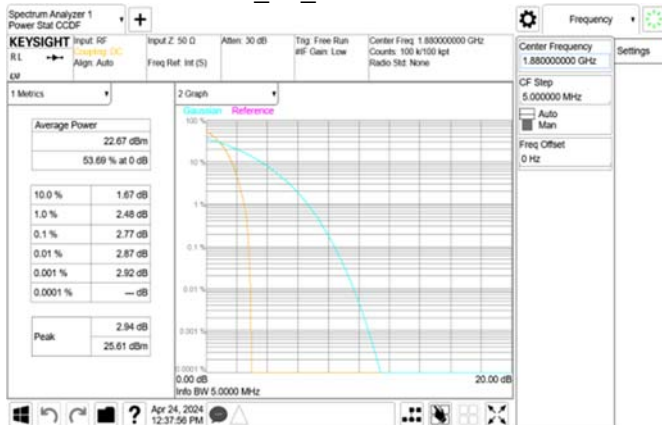
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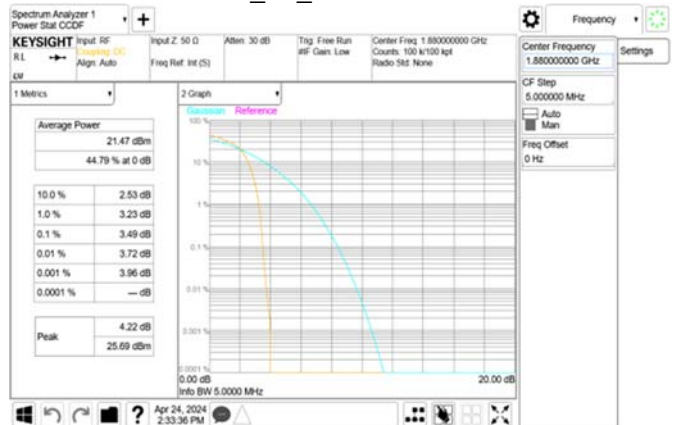
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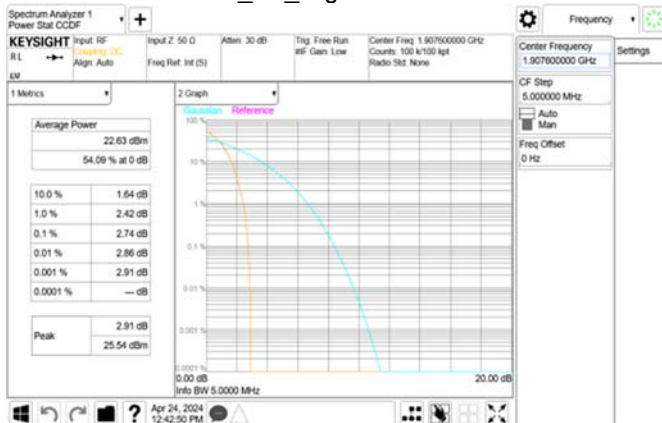
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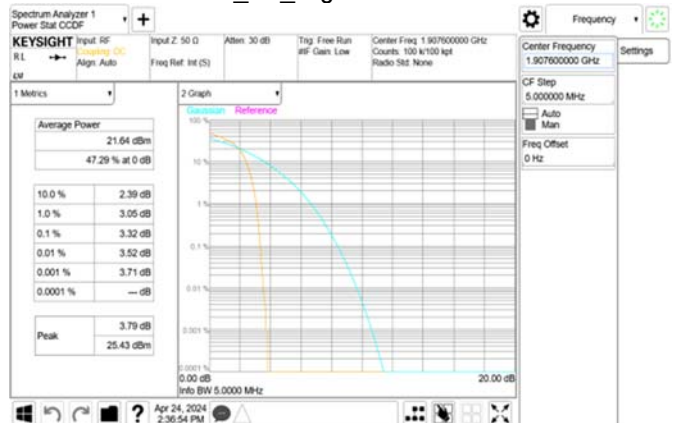
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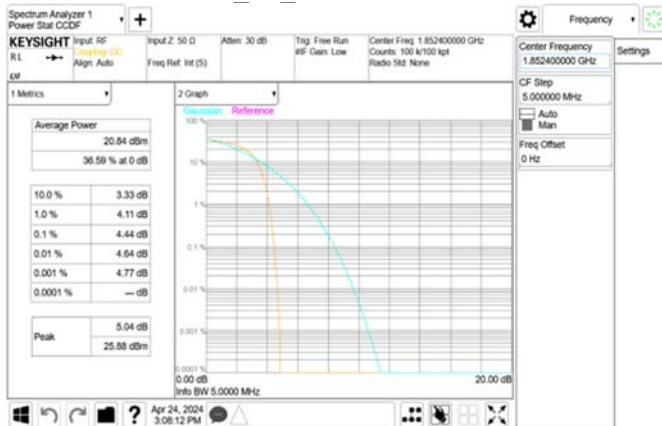


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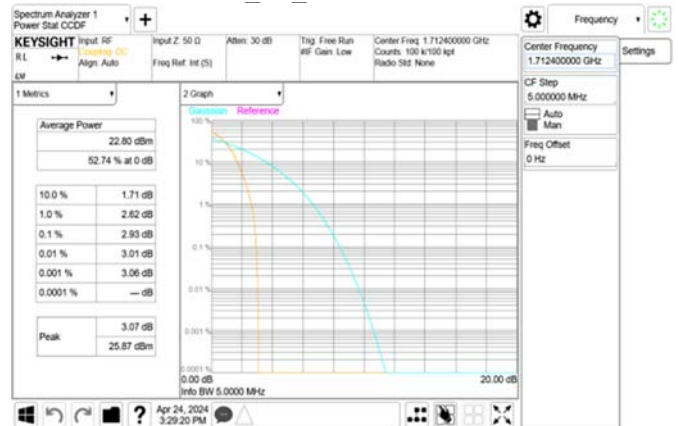
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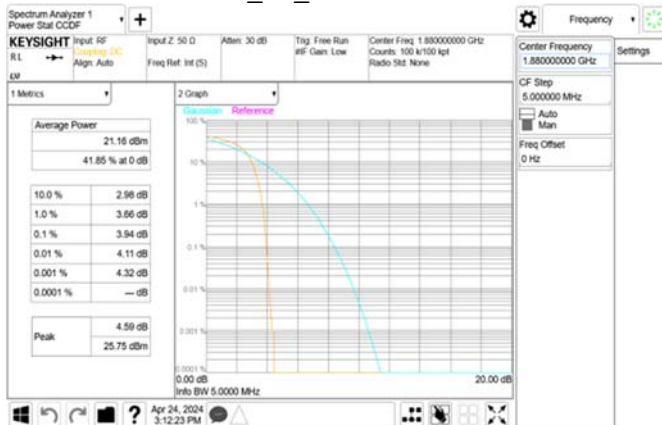
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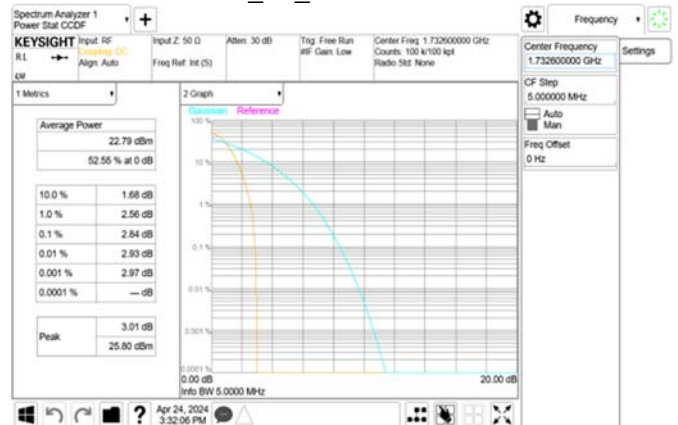
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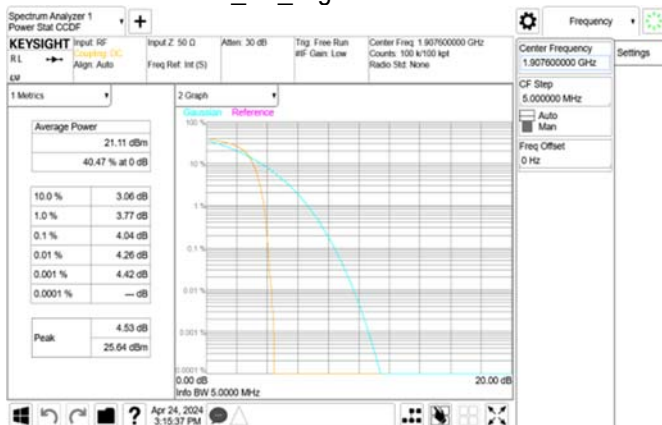
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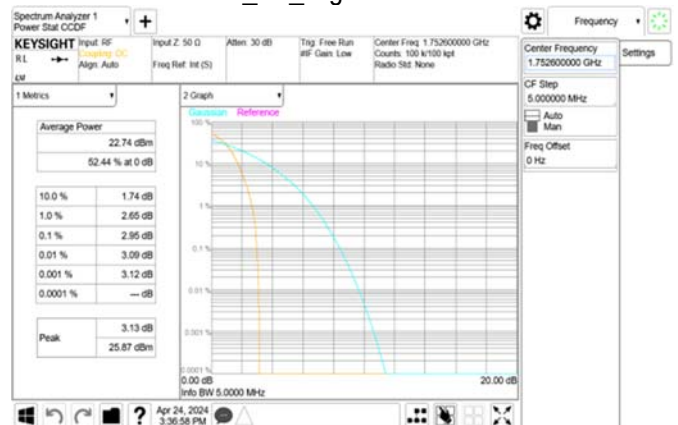
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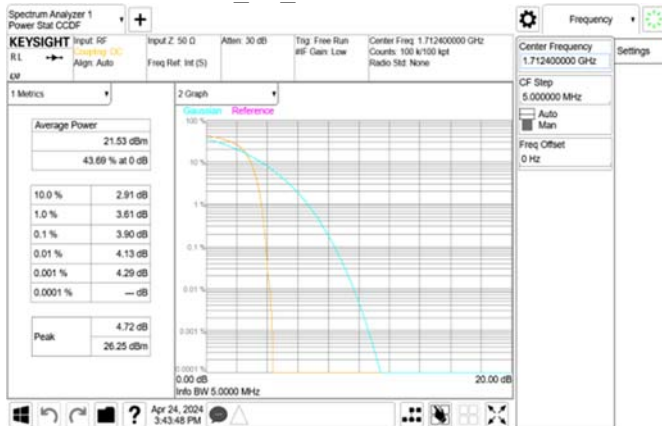


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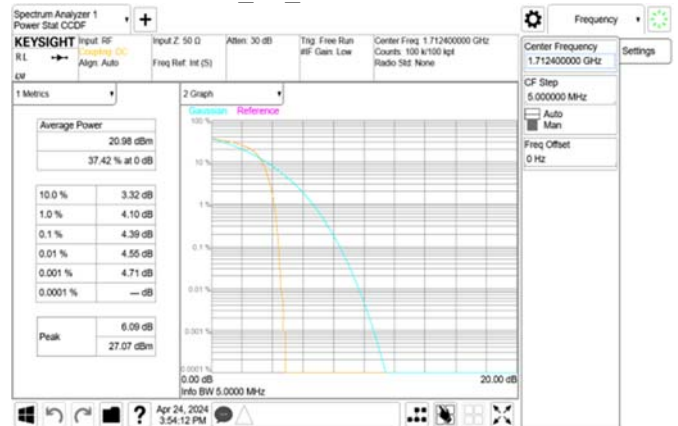
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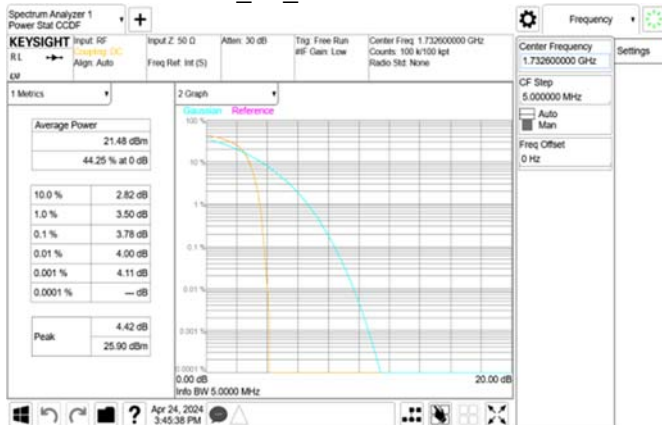
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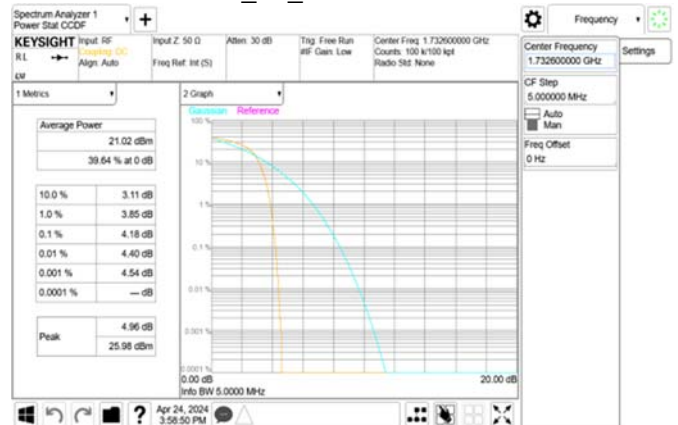
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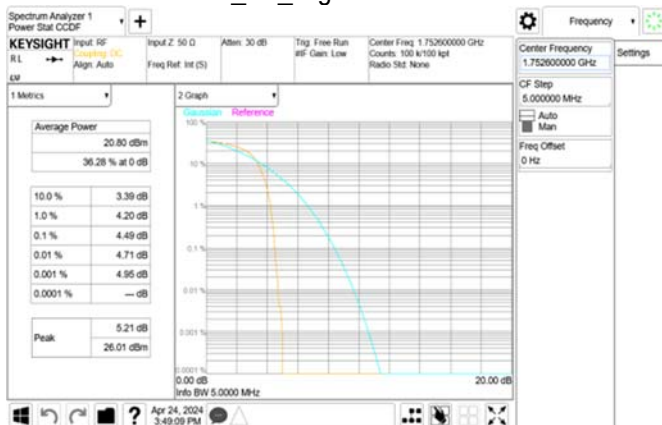
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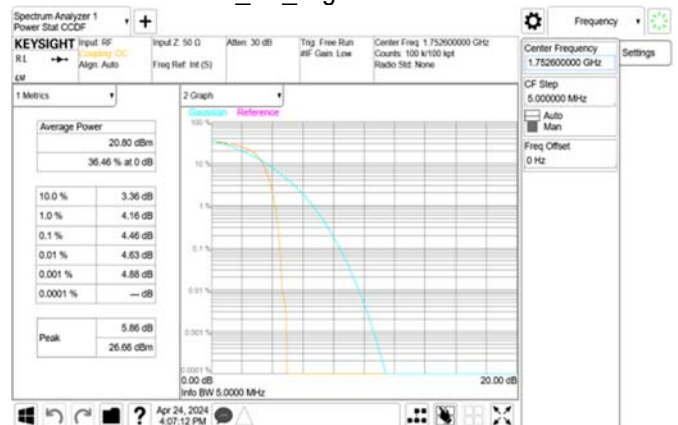
HSUPA_B4_MidCH1413-1732.6



HSDPA_B4_HighCH1513-1752.6



HSUPA_B4_HighCH1513-1752.6



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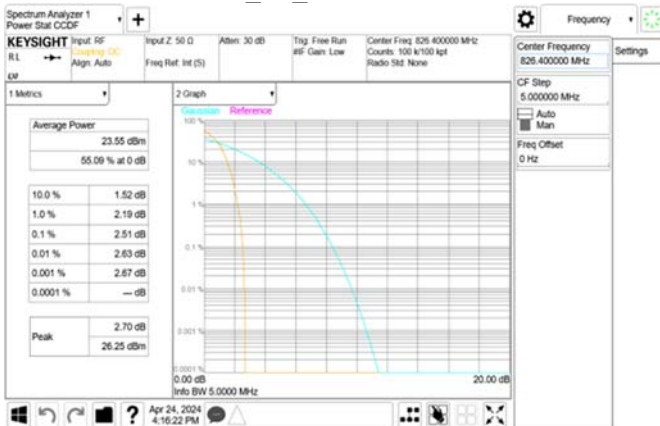
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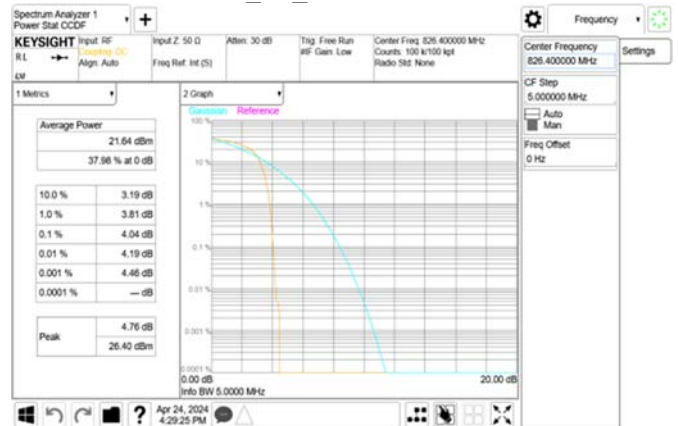
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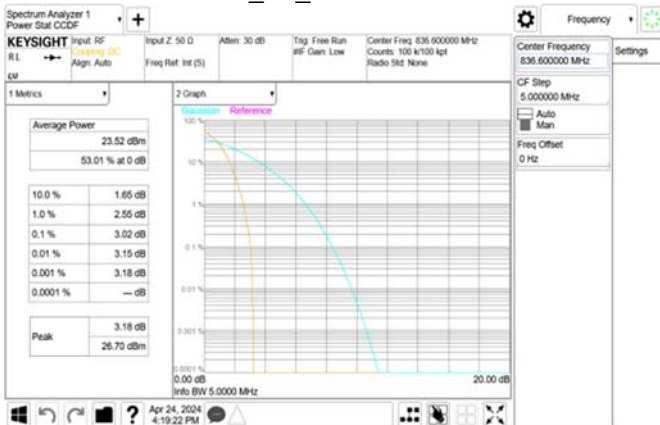
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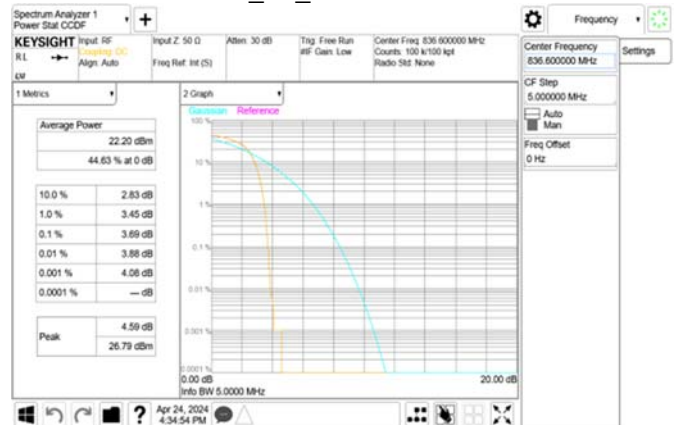
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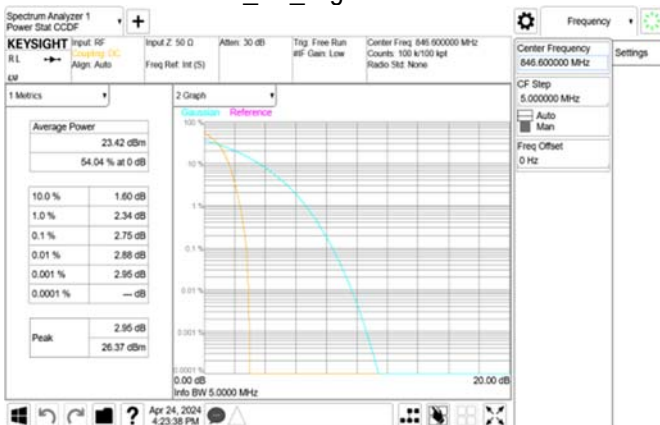
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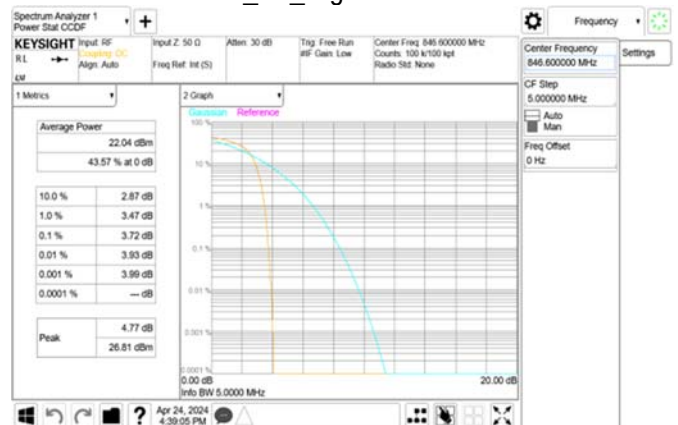
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WCDMA_B5_HighCH4233-846.6



HSDPA_B5_HighCH4233-846.6

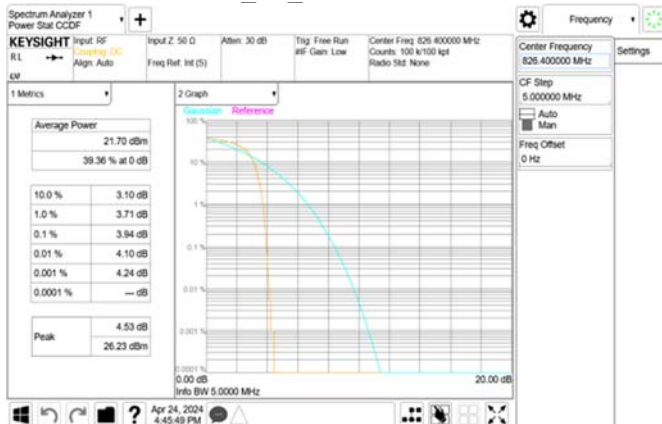


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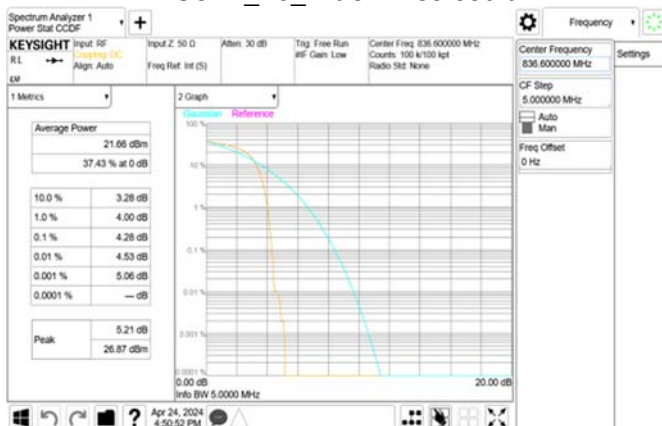
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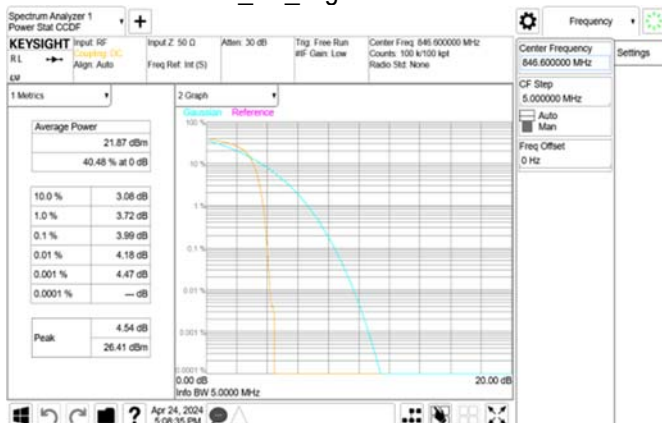
HSUPA_B5_LowCH4132-826.4



HSUPA_B5_MidCH4183-836.6



HSUPA_B5_HighCH4233-846.6



~ End of Report ~

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