



TEST REPORT

Test item description: Kids Smartwatch
FCC ID: 2BRO4-DF98PRO
Trademark(s): Kipy
Model/Type reference: DF98PRO, DF98, DF98KEEP, KIPY360, Kipy Chat, Connect, Ultra, HelloKipy, Link, Next
Applicant's name: KIDI COMMUNICATION LTD
Address: Menachem Begin 1stKiryat Malachi, 8306204 Israel
Manufacturer: KIDI COMMUNICATION LTD
Address: Menachem Begin 1stKiryat Malachi, 8306204 Israel
Prepared By: Shenzhen CTB Testing Technology Co., Ltd.
Address: 1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: Mar. 26, 2026
Sample tested Date: Mar. 26, 2026 to Apr. 10, 2026
Issue Date: Apr. 10, 2026
Report No.: CTB26032606101RF04
Test Standards: FCC Part 22H & 24E
Test Results: PASS
Remark: This is GSM radio test report.

Compiled by:

Reviewed by:

Approved by:

Kai Chen

Martin Feng

Kai ChenMartin FengBin Mei / Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. The tested sample(s) and the sample information are provided by the applicant. The authenticity, accuracy, and completeness of the provided information are the sole responsibility of the applicant. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The result decision rules of our laboratory are based solely on the direct comparison between the actual measured values of test results and the standard limits, without considering the measurement uncertainty. "★" indicates the testing items were fulfilled by subcontracted lab. "※" indicates the items are not in CNAS accreditation scope.

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB26032606101RF04	Apr. 10, 2026	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

FCC Rules	Description of Test Item	Result
§1.1307, §2.1091	RF Exposure	Compliant
§22.913 (a), §24.232 (c)	RF Output Power	Compliant
§24.51	Peak-to-average Ratio(PAR) of Transmitter	Compliant
§22.917 (b), §24.238 (b)	Emission Bandwidth	Compliant
§22.917 (a), §24.238 (a)	Spurious Emissions at Antenna Terminal	Compliant
§22.917 (a), §24.238 (a)	Spurious Radiation Emissions	Compliant
§22.917 (a), §24.238 (a)	Out of Band Emissions	Compliant
§22.355, §24.235	Frequency Stability	Compliant

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Item	Uncertainty
Occupancy bandwidth	54.3kHz
Conducted output power Above 1G	0.9dB
Conducted output power below 1G	0.9dB
Power Spectral Density , Conduction	0.9dB
Conduction spurious emissions	2.0dB
Out of band emission	2.0dB
3m camber Radiated spurious emission(30MHz-1GHz)	4.6dB
3m chamber Radiated spurious emission(1GHz-18GHz)	5.1dB
3m chamber Radiated spurious emission(18GHz-40GHz)	3.4dB
Receiver Reference Sensitivity level	1.9dB
humidity uncertainty	5.5%
Temperature uncertainty	0.63°C
frequency	1×10 ⁻⁷

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model/Type reference:	DF98PRO, DF98, DF98KEEP, KIPY360, Kipy Chat, Connect, Ultra, HelloKipy, Link, Next
Model Description:	All the model are the same circuit and RF module, only the model names are different. Test sample model: DF98PRO
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	GSM/GPRS/EDGE 850: 824~849MHz GSM/GPRS/EDGE 1900: 1850~1910MHz WCDMA Band 2: 1850~1910MHz WCDMA Band 5: 824~849MHz
Max. RF output power:	GSM850: 31.44dBm GSM1900: 28.11dBm WCDMA Band 2: 21.78dBm WCDMA Band 5: 20.32dBm
Type of Modulation:	GMSK, BPSK
Antenna installation:	Internal antenna
Antenna Gain:	GSM850: -15.16dBi, GSM1900: -1.14dBi WCDMA Band 2: -1.14dBi WCDMA Band 5: -15.16dBi
Ratings:	DC 5V charging from adapter DC 3.8V by battery

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1.	Adapter	JIYIN	JY-05100C	/	AE

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

Testing Configure			
Support Band	Support Standard	Channel Frequency	Channel Number
GSM 850	GSM/GPRS/EDGE	824.2 MHz	128
		836.6 MHz	190
		848.8 MHz	251
PCS 1900	GSM/GPRS/EDGE	1850.2 MHz	512
		1880.0 MHz	661
		1909.8 MHz	810
WCDMA Band 5	WCDMA/HSDPA/HSUPA	826.4 MHz	4132
		836.6 MHz	4183
		846.6 MHz	4233
WCDMA Band 2	WCDMA/HSDPA/HSUPA	1852.4 MHz	9262
		1880.0 MHz	9400
		1907.6 MHz	9538
Note: the transmitter has been tested on the communications mode of GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA compliance test and record the worst case.			

4.5 Test Mode

Test Mode List		
Test Mode	Description	Remark
TM1	GSM 850	Low, Middle, High Channels
TM2	GPRS 850	Low, Middle, High Channels
TM3	EDGE 850	Low, Middle, High Channels
TM4	GSM 1900	Low, Middle, High Channels
TM5	GPRS 1900	Low, Middle, High Channels
TM6	EDGE 1900	Low, Middle, High Channels
TM7	WCDMA Band 5	Low, Middle, High Channels
TM8	HSDPA Band 5	Low, Middle, High Channels
TM9	HSUPA Band 5	Low, Middle, High Channels
TM10	WCDMA Band 2	Low, Middle, High Channels
TM11	HSDPA Band 2	Low, Middle, High Channels
TM12	HSUPA Band 2	Low, Middle, High Channels

4.6 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	3.8V
Normal Temperature(°C)	23
Low Temperature(°C)	0
High Temperature(°C)	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at 1&2F., Building A, No. 26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: CN1276

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated Date	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2025/5/23	2026/5/22
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2025/5/23	2026/5/22
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2025/5/23	2026/5/22
4	Communication test set	R&S	CMW500	108058	V3.5.80	2025/5/23	2026/5/22
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/5/23	2026/5/22
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2025/5/22	2026/5/21
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2025/5/22	2026/5/21
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2025/5/22	2026/5/21
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	/	2025/6/18	2026/6/17
10	5 GHz Filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	/	2025/6/18	2026/6/17
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	/	2025/5/24	2026/5/23
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	/	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2025/10/20	2026/10/19
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/5/22	2026/5/21
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/	/
16	966 chamber	C.R.T.	966	/	/	2024/6/23	2027/6/22
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2025/5/23	2026/5/22
18	Amplifier	HP	8447E	2945A02747	/	2025/5/23	2026/5/22

19	Amplifier	Agilent	8449B	3008A01838	/	2025/6/2	2026/6/1
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/29	2026/6/28
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2025/6/1	2026/5/31
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/2	2026/6/1
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2025/6/2	2026/6/1
26	Amplifier	AEROFLEX	Aeroflex	097	/	2025/6/2	2026/6/1
27	Power Metter	KEYSIGHT	N1912AP	N/A	A.05.00	2025/6/2	2026/6/1

6. RF OUTPUT POWER

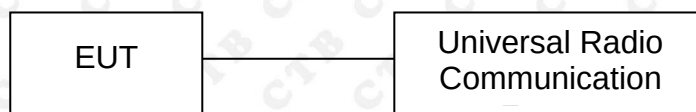
6.1 Standard Applicable

According to §22.913(a)(2), The ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to §24.232 (c), Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

6.2 Test Procedure

Conducted output power test method:



Radiated power test method:

- 1.The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
- 2.The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3.The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4.Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

6.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	54%
ATM Pressure:	1010 mbar

6.4 Summary of Test Results/Plots

Max. Radiated Power

ERP For GSM Mode GSM850

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
824.2	31.22	1.5	0	H	1.5	-15.16	14.56	38.45
824.2	30.89	1.5	0	V	1.5	-15.16	14.23	38.45
Middle Channel								
836.6	30.50	1.5	0	H	1.5	-15.16	13.84	38.45
836.6	31.12	1.5	0	V	1.5	-15.16	14.46	38.45
High Channel								
848.8	30.85	1.5	0	H	1.5	-15.16	14.19	38.45
848.8	30.34	1.5	0	V	1.5	-15.16	13.68	38.45

EIRP For GSM Mode PCS1900

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1850.2	27.44	1.5	0	H	1.9	-1.14	24.40	33
1850.2	27.82	1.5	0	V	1.9	-1.14	24.78	33
Middle Channel								
1880	27.01	1.5	0	H	1.9	-1.14	23.97	33
1880	27.76	1.5	0	V	1.9	-1.14	24.72	33
High Channel								
1909.8	27.56	1.5	0	H	1.9	-1.14	24.52	33
1909.8	27.45	1.5	0	V	1.9	-1.14	24.41	33

ERP For GPRS Mode GSM850

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
824.2	30.82	1.5	0	H	1.5	-15.16	14.16	38.45
824.2	30.86	1.5	0	V	1.5	-15.16	14.20	38.45
Middle Channel								
836.6	30.42	1.5	0	H	1.5	-15.16	13.76	38.45
836.6	30.55	1.5	0	V	1.5	-15.16	13.89	38.45
High Channel								
848.8	30.50	1.5	0	H	1.5	-15.16	13.84	38.45
848.8	30.97	1.5	0	V	1.5	-15.16	14.31	38.45

EIRP For GPRS Mode PCS1900

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1850.2	27.73	1.5	0	H	1.9	-1.14	24.69	33
1850.2	27.32	1.5	0	V	1.9	-1.14	24.28	33
Middle Channel								
1880	27.79	1.5	0	H	1.9	-1.14	24.75	33
1880	27.46	1.5	0	V	1.9	-1.14	24.42	33
High Channel								
1909.8	27.26	1.5	0	H	1.9	-1.14	24.22	33
1909.8	27.21	1.5	0	V	1.9	-1.14	24.17	33

ERP For EDGE Mode GSM850

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
824.2	24.64	1.5	0	H	1.5	-15.16	7.98	38.45
824.2	25.14	1.5	0	V	1.5	-15.16	8.48	38.45
Middle Channel								
836.6	24.62	1.5	0	H	1.5	-15.16	7.96	38.45
836.6	24.19	1.5	0	V	1.5	-15.16	7.53	38.45
High Channel								
848.8	24.48	1.5	0	H	1.5	-15.16	7.82	38.45
848.8	24.83	1.5	0	V	1.5	-15.16	8.17	38.45

EIRP For EDGE Mode PCS1900

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1850.2	22.56	1.5	0	H	1.9	-1.14	19.52	33
1850.2	22.59	1.5	0	V	1.9	-1.14	19.55	33
Middle Channel								
1880	22.95	1.5	0	H	1.9	-1.14	19.91	33
1880	22.53	1.5	0	V	1.9	-1.14	19.49	33
High Channel								
1909.8	22.95	1.5	0	H	1.9	-1.14	19.91	33
1909.8	22.63	1.5	0	V	1.9	-1.14	19.59	33

ERP For WCDMA Mode Band 5

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dBd	dBm	dBm
Low Channel								
826.4	20.64	1.5	0	H	1.5	-15.16	3.98	38.45
826.4	20.93	1.5	0	V	1.5	-15.16	4.27	38.45
Middle Channel								
836.6	21.54	1.5	0	H	1.5	-15.16	4.88	38.45
836.6	21.26	1.5	0	V	1.5	-15.16	4.60	38.45
High Channel								
846.6	21.37	1.5	0	H	1.5	-15.16	4.71	38.45
846.6	21.53	1.5	0	V	1.5	-15.16	4.87	38.45

ERP For HSDPA Mode Band 5

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dBd	dBm	dBm
Low Channel								
826.4	21.75	1.5	0	H	1.5	-15.16	5.09	38.45
826.4	21.11	1.5	0	V	1.5	-15.16	4.45	38.45
Middle Channel								
836.6	21.62	1.5	0	H	1.5	-15.16	4.96	38.45
836.6	21.06	1.5	0	V	1.5	-15.16	4.40	38.45
High Channel								
846.6	21.21	1.5	0	H	1.5	-15.16	4.55	38.45
846.6	21.26	1.5	0	V	1.5	-15.16	4.60	38.45

ERP For HSUPA Mode Band 5

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dBd	dBm	dBm
Low Channel								
826.4	17.30	1.5	0	H	1.5	-15.16	0.64	38.45
826.4	16.98	1.5	0	V	1.5	-15.16	0.32	38.45
Middle Channel								
836.6	18.24	1.5	0	H	1.5	-15.16	1.58	38.45
836.6	18.39	1.5	0	V	1.5	-15.16	1.73	38.45
High Channel								
846.6	18.14	1.5	0	H	1.5	-15.16	1.48	38.45
846.6	17.79	1.5	0	V	1.5	-15.16	1.13	38.45

EIRP For WCDMA Mode Band 2

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1852.4	19.07	1.5	0	H	1.9	-1.14	16.03	33
1852.4	19.15	1.5	0	V	1.9	-1.14	16.11	33
Middle Channel								
1880	20.78	1.5	0	H	1.9	-1.14	17.74	33
1880	19.98	1.5	0	V	1.9	-1.14	16.94	33
High Channel								
1907.6	20.51	1.5	0	H	1.9	-1.14	17.47	33
1907.6	20.87	1.5	0	V	1.9	-1.14	17.83	33

EIRP For HSDPA Mode Band 2

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1852.4	21.13	1.5	0	H	1.9	-1.14	18.09	33
1852.4	20.41	1.5	0	V	1.9	-1.14	17.37	33
Middle Channel								
1880	19.79	1.5	0	H	1.9	-1.14	16.75	33
1880	19.36	1.5	0	V	1.9	-1.14	16.32	33
High Channel								
1907.6	20.54	1.5	0	H	1.9	-1.14	17.50	33
1907.6	20.19	1.5	0	V	1.9	-1.14	17.15	33

EIRP For HSUPA Mode Band 2

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1852.4	22.84	1.5	0	H	1.9	-1.14	19.80	33
1852.4	22.31	1.5	0	V	1.9	-1.14	19.27	33
Middle Channel								
1880	22.34	1.5	0	H	1.9	-1.14	19.30	33
1880	21.76	1.5	0	V	1.9	-1.14	18.72	33
High Channel								
1907.6	23.64	1.5	0	H	1.9	-1.14	20.60	33
1907.6	23.65	1.5	0	V	1.9	-1.14	20.61	33

Note: Result = Substitute - Cable loss + Antenna Gain

Max. Conducted Output Power

For Cellular Band (GSM850)

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 22.913 Limit (dBm)
GSM	Low Channel	824.2	31.43	38.45
	Middle Channel	836.6	31.34	38.45
	High Channel	848.8	31.08	38.45
GPRS(1 Slot)	Low Channel	824.2	31.44	38.45
	Middle Channel	836.6	31.36	38.45
	High Channel	848.8	31.10	38.45
EDGE(1 Slot)	Low Channel	824.2	25.37	38.45
	Middle Channel	836.6	25.13	38.45
	High Channel	848.8	25.36	38.45

For PCS Band (GSM1900)

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 24.232 Limit (dBm)
GSM	Low Channel	1850.2	28.09	33.0
	Middle Channel	1880.0	27.92	33.0
	High Channel	1909.8	27.63	33.0
GPRS(1 Slot)	Low Channel	1850.2	28.11	33.0
	Middle Channel	1880.0	27.93	33.0
	High Channel	1909.8	27.66	33.0
EDGE(1 Slot)	Low Channel	1850.2	23.50	33.0
	Middle Channel	1880.0	23.10	33.0
	High Channel	1909.8	23.46	33.0

For WCDMA Band 5

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 22.913 Limit (dBm)
WCDMA	Low Channel	826.4	21.52	38.45
	Middle Channel	836.6	21.75	38.45
	High Channel	846.6	21.68	38.45
HSDPA	Low Channel	826.4	21.78	38.45
	Middle Channel	836.6	21.75	38.45
	High Channel	846.6	21.69	38.45
HSUPA	Low Channel	826.4	21.71	38.45
	Middle Channel	836.6	21.77	38.45
	High Channel	846.6	21.69	38.45

For WCDMA Band 2

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 24.232 Limit (dBm)
WCDMA	Low Channel	1852.4	19.97	33.00
	Middle Channel	1880.0	20.18	33.00
	High Channel	1907.6	19.87	33.00
HSDPA	Low Channel	1852.4	20.30	33.00
	Middle Channel	1880.0	20.24	33.00
	High Channel	1907.6	19.92	33.00
HSUPA	Low Channel	1852.4	20.32	33.00
	Middle Channel	1880.0	20.30	33.00
	High Channel	1907.6	19.93	33.00

7. PEAK-TO-AVERAGE RATIO(PAR) OF TRANSMITTER

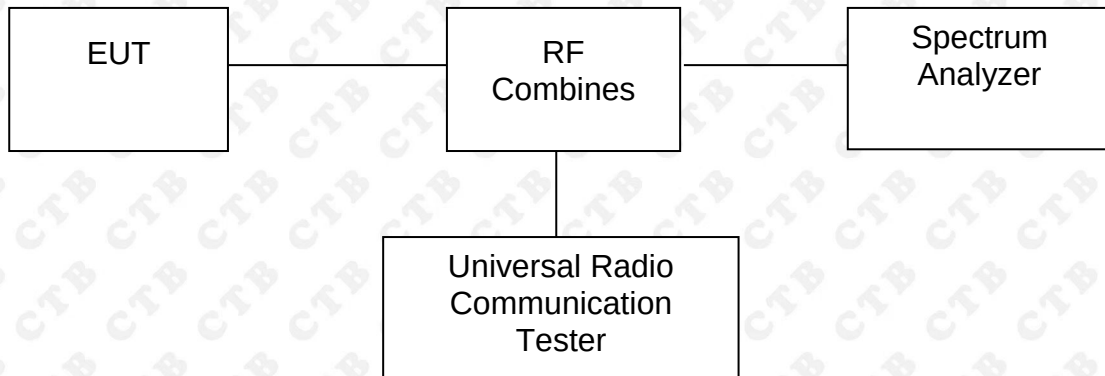
7.1 Standard Applicable

According to §24.232(d), Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

7.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 30kHz and the peak-to-average ratio (PAR) of the transmission was recorded. Record the maximum PAPR level associated with a probability of 0.1%.

Test Configuration for the emission bandwidth testing:



7.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	54%
ATM Pressure:	1010 mbar

7.4 Summary of Test Results

Only the worst case was selected to record
For GSM850

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
GSM	190	836.6	2.69	13
GPRS(1 Slot)	190	836.6	2.69	13
EDGE(1 Slot)	190	836.6	8.31	13

For PCS 1900

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
GSM	512	1850.2	2.71	13
GPRS(1 Slot)	512	1850.2	2.71	13
EDGE(1 Slot)	512	1850.2	6.74	13

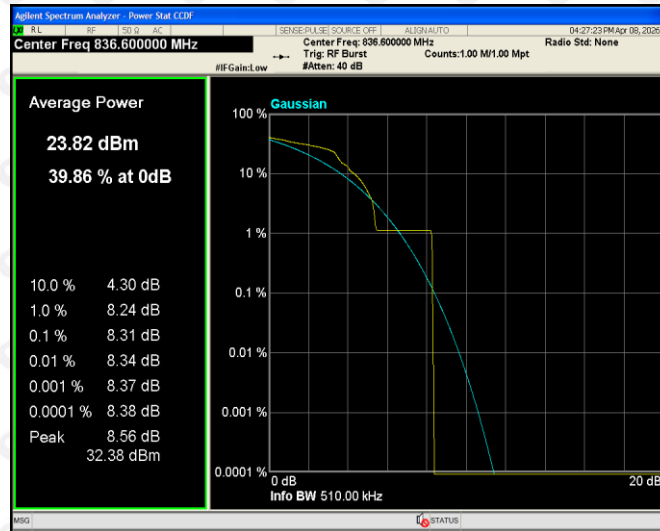
For WCDMA Band 5

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
WCDMA	4182	836.4	3.17	13
HSDPA	4182	836.4	4.50	13
HSUPA	4182	836.4	4.09	13

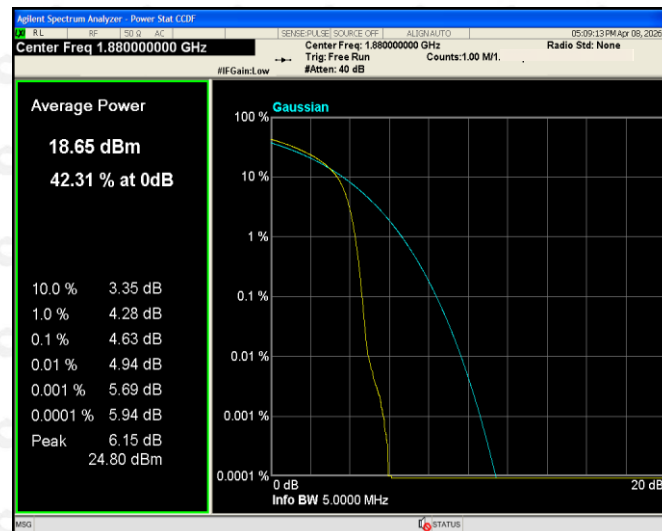
For WCDMA Band 2

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
WCDMA	9262	1852.4	3.24	13
HSDPA	9400	1852.4	4.63	13
HSUPA	9400	1852.4	4.15	13

GSM :



WCDMA:



8. EMISSION BANDWIDTH

8.1 Standard Applicable

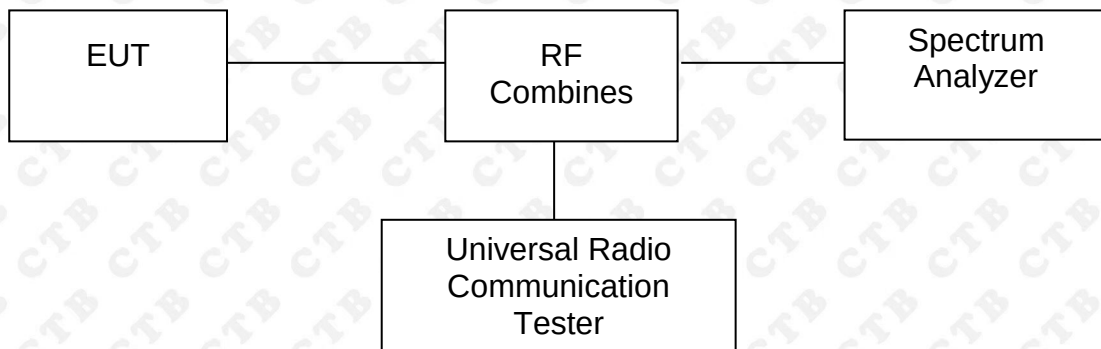
According to §22.917(b), The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

According to §24.238(b), The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

8.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 10kHz for GSM mode and 100kHz for WCDMA mode, VBW shall be at least 3 times the RBW, and the 26dB bandwidth was recorded.

Test Configuration for the emission bandwidth testing:



8.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	54%
ATM Pressure:	1010 mbar

8.4 Summary of Test Results/Plots

For Cellular Band

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM	128	824.2	245.949	323.718
	190	836.6	247.701	314.760
	251	848.8	242.418	321.319
GPRS	128	824.2	237.949	308.453
	190	836.6	250.109	318.019
	251	848.8	248.603	316.011
EDGE	128	824.2	246.700	324.402
	190	836.6	249.400	308.256
	251	848.8	239.323	304.215

For PCS Band

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM	512	1850.2	246.701	315.096
	661	1880.0	240.016	308.275
	810	1909.8	243.756	319.410
GPRS	512	1850.2	245.307	315.227
	661	1880.0	247.623	307.642
	810	1909.8	248.290	320.969
EDGE	512	1850.2	256.246	319.320
	661	1880.0	246.354	314.714
	810	1909.8	241.331	306.197

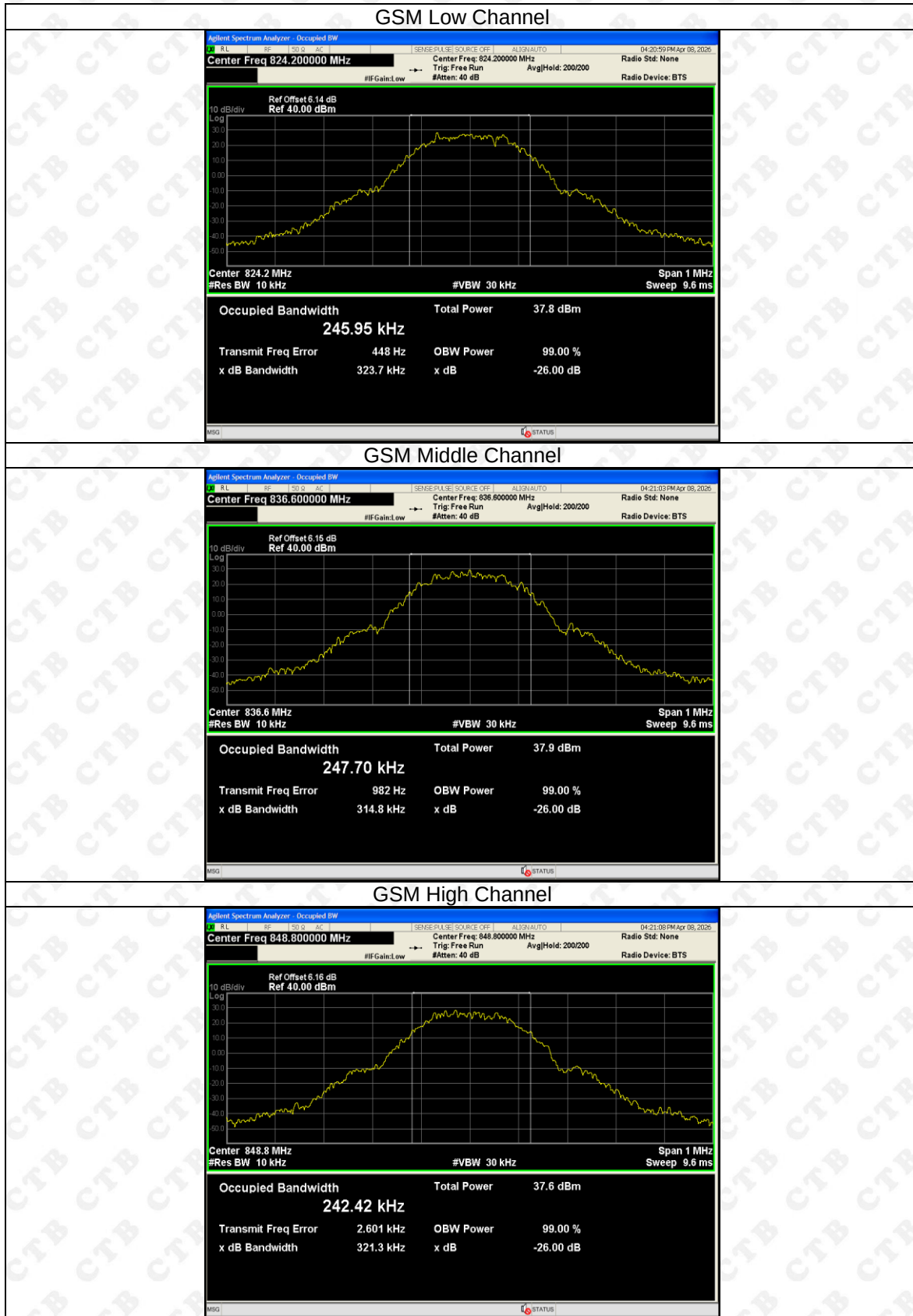
For Band 5

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
WCDMA	4132	826.4	4134.356	4689.641
	4183	836.6	4108.742	4691.320
	4233	846.6	4098.651	4686.725
HSDPA	4132	826.4	4137.428	4676.726
	4183	836.6	4103.542	4683.968
	4233	846.6	4097.164	4680.510
HSUPA	4132	826.4	4129.784	4709.797
	4183	836.6	4195.416	5969.923
	4233	846.6	4133.975	5647.586

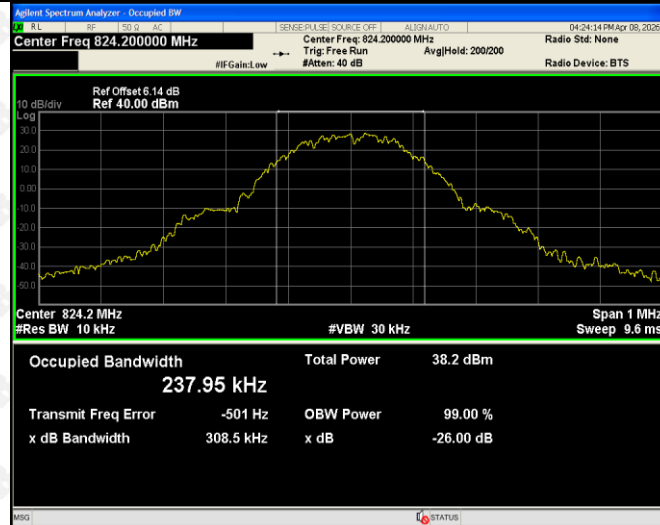
For Band 2

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
WCDMA	9262	1852.4	4116.039	4696.389
	9400	1880.0	4101.552	4660.830
	9538	1907.6	4128.366	4688.788
HSDPA	9262	1852.4	4115.858	4659.769
	9400	1880.0	4110.627	4671.862
	9538	1907.6	4112.832	4666.327
HSUPA	9262	1852.4	4126.115	4701.343
	9400	1880.0	4121.643	4662.729
	9538	1907.6	4115.082	4649.106

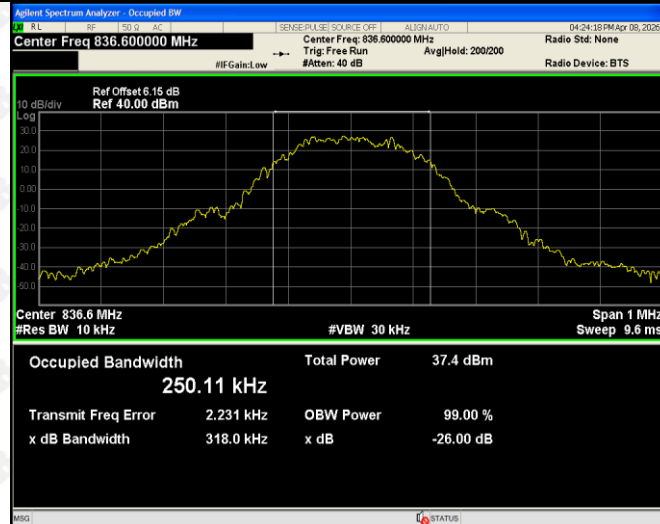
For Cellular Band



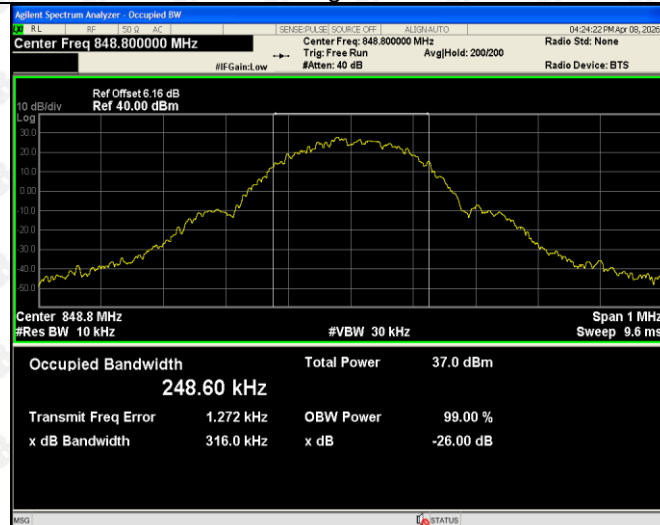
GPRS Low Channel



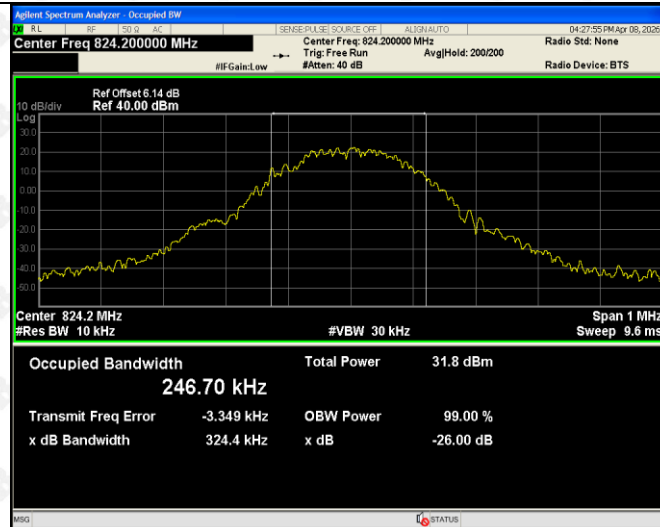
GPRS Middle Channel



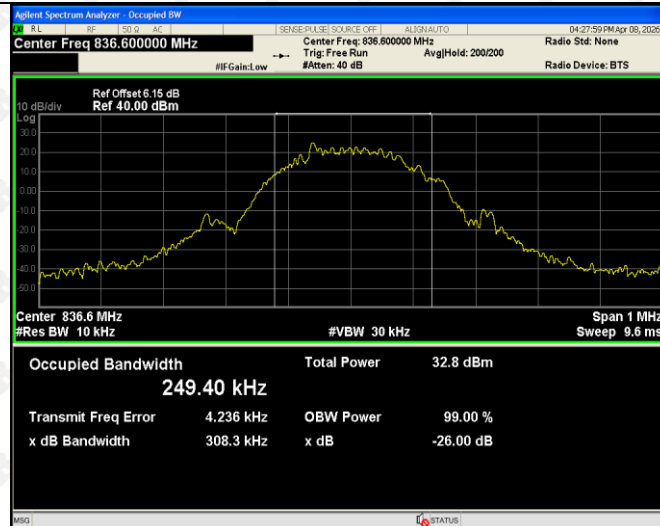
GPRS High Channel



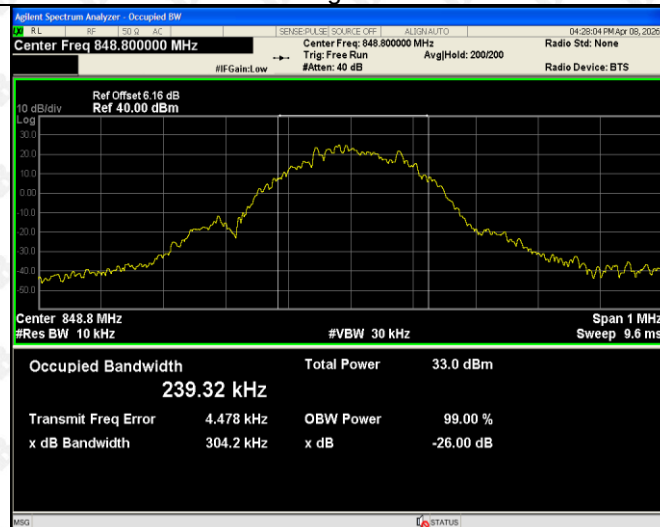
EDGE Low Channel



EDGE Middle Channel



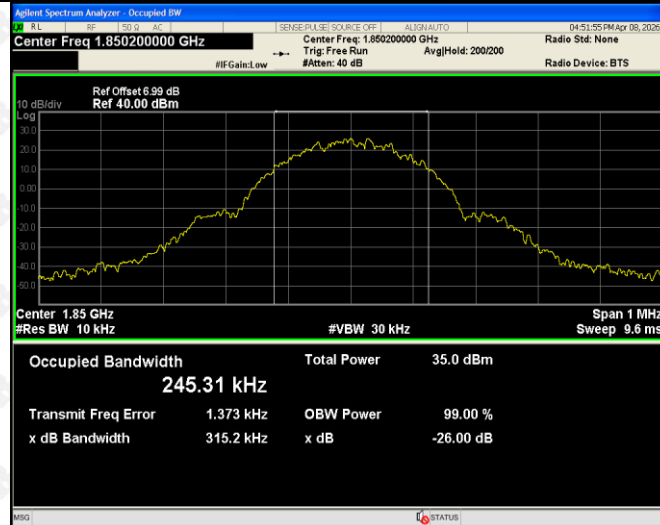
EDGE High Channel



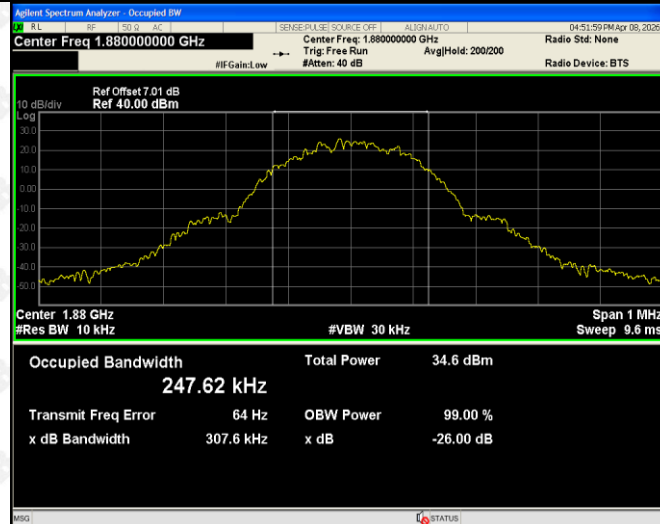
For PCS Band



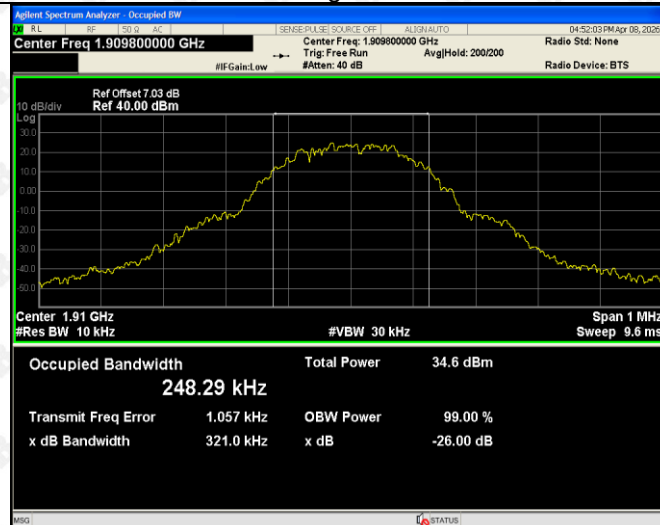
GPRS Low Channel



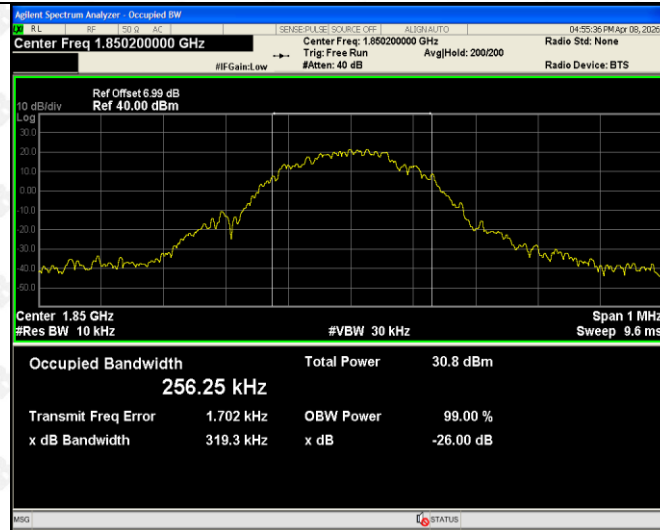
GPRS Middle Channel



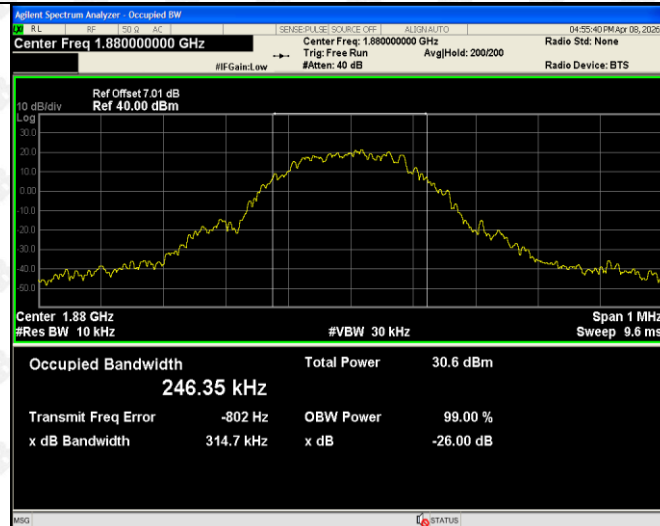
GPRS High Channel



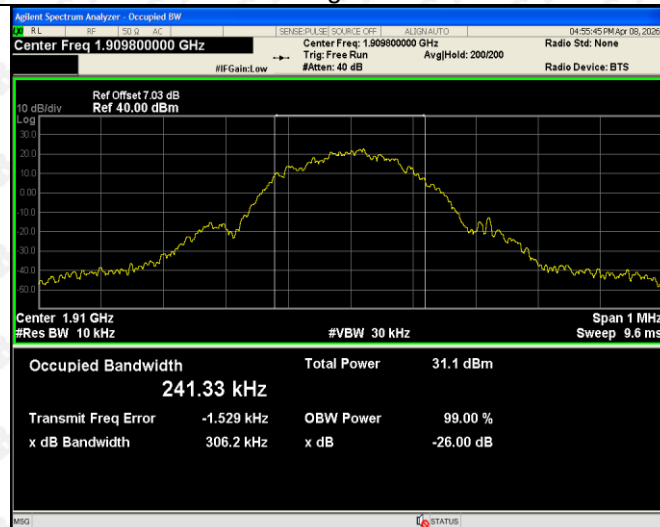
EDGE Low Channel



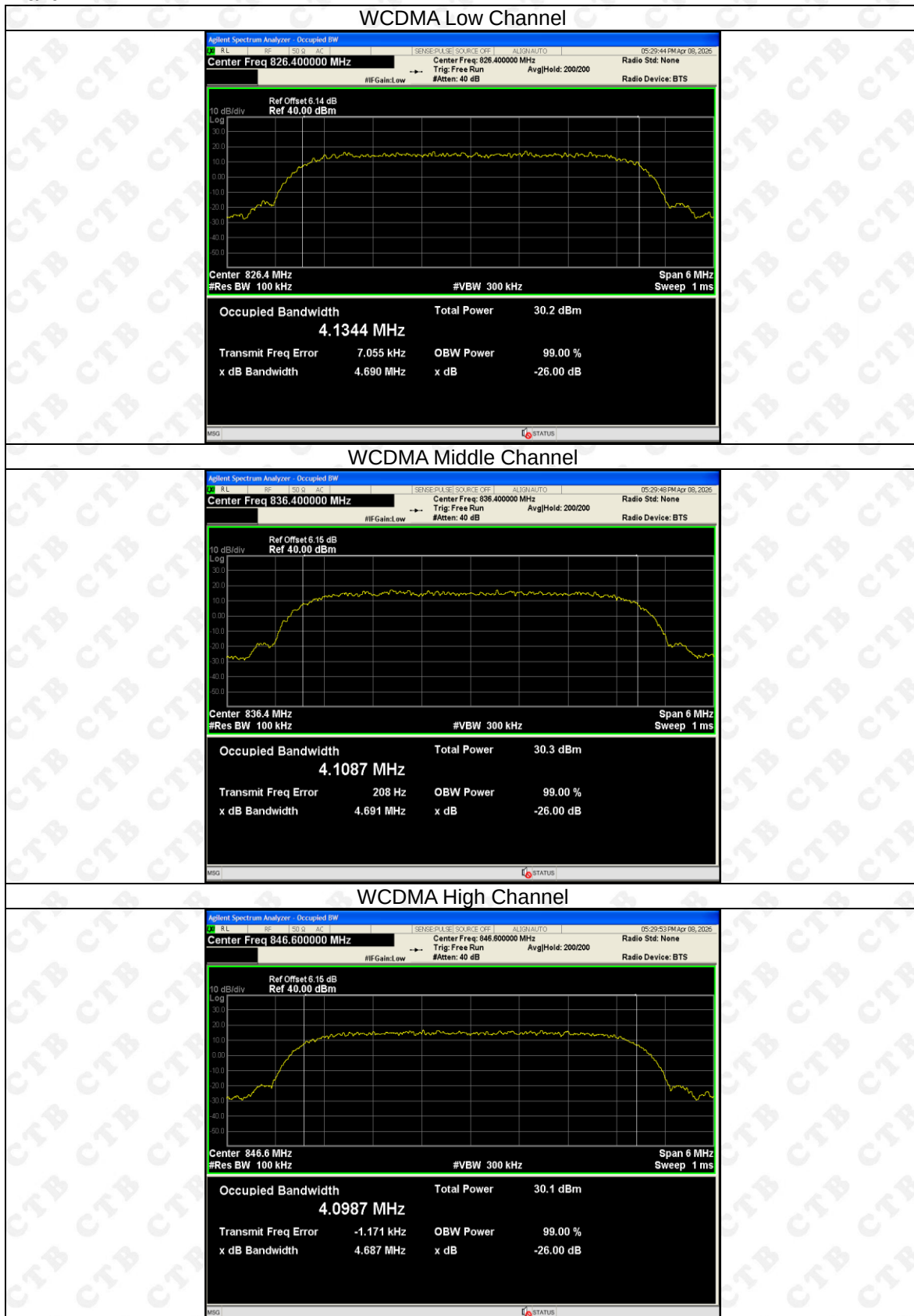
EDGE Middle Channel



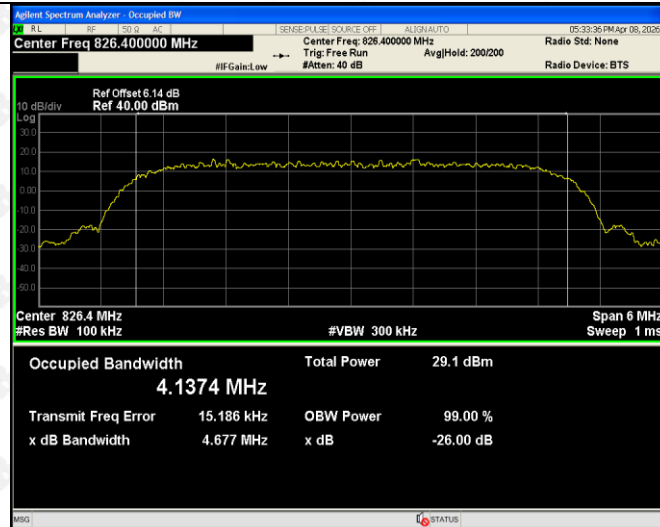
EDGE High Channel



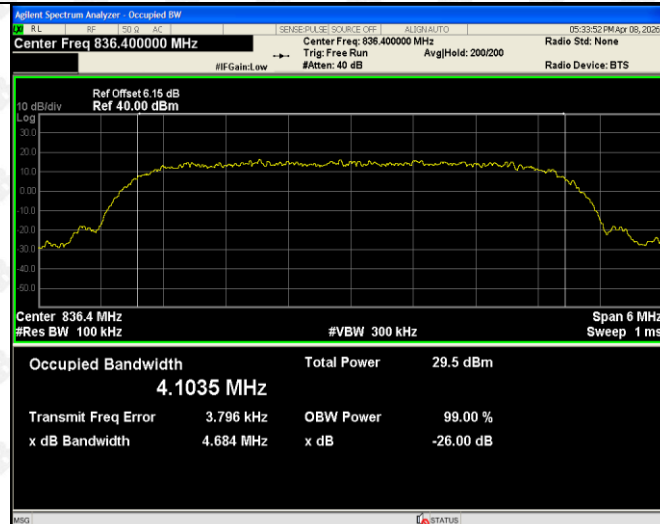
For Band V



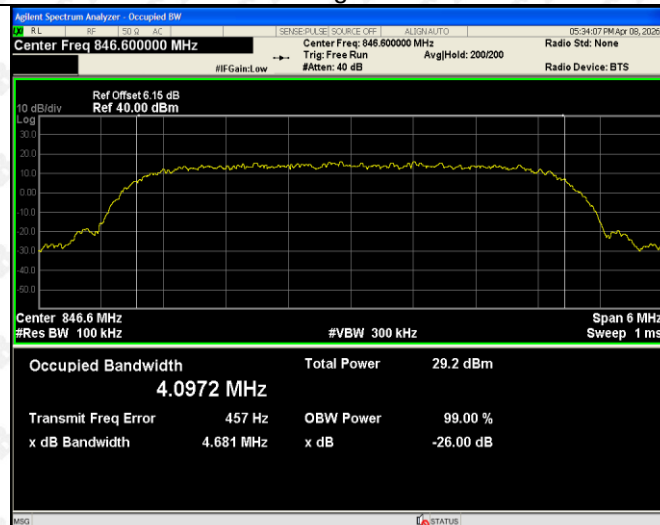
HSDPA Low Channel



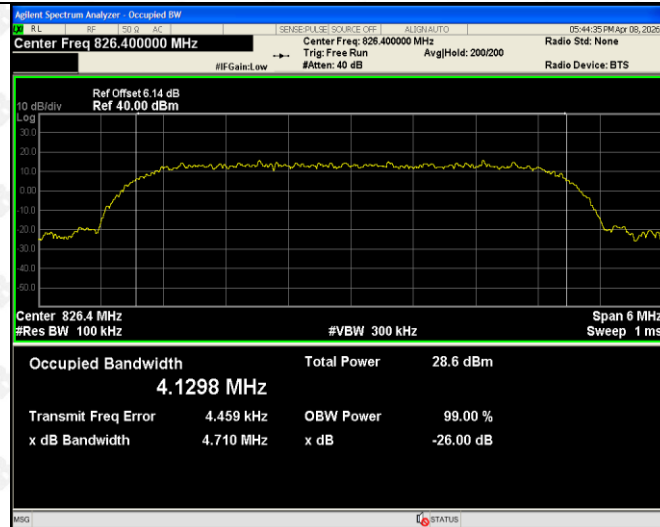
HSDPA Middle Channel



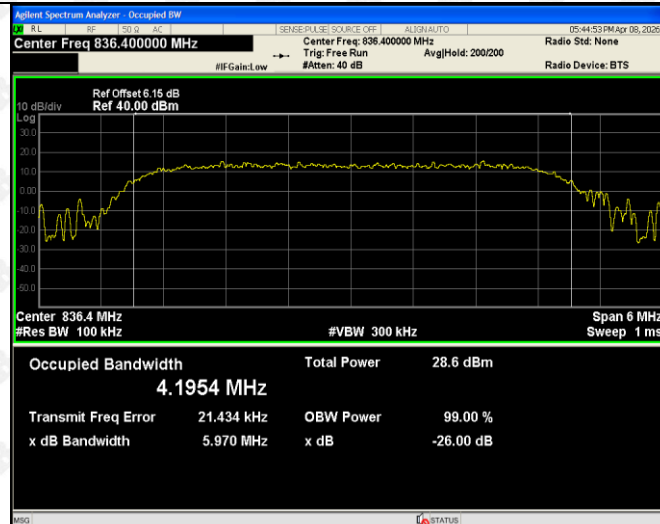
HSDPA High Channel



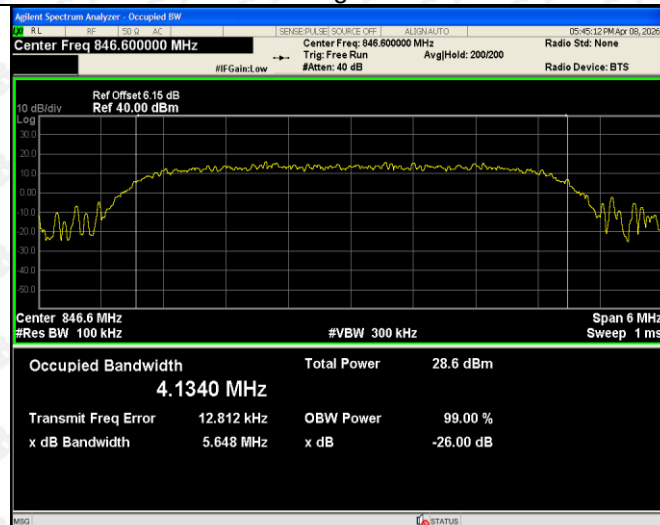
HSUPA Low Channel



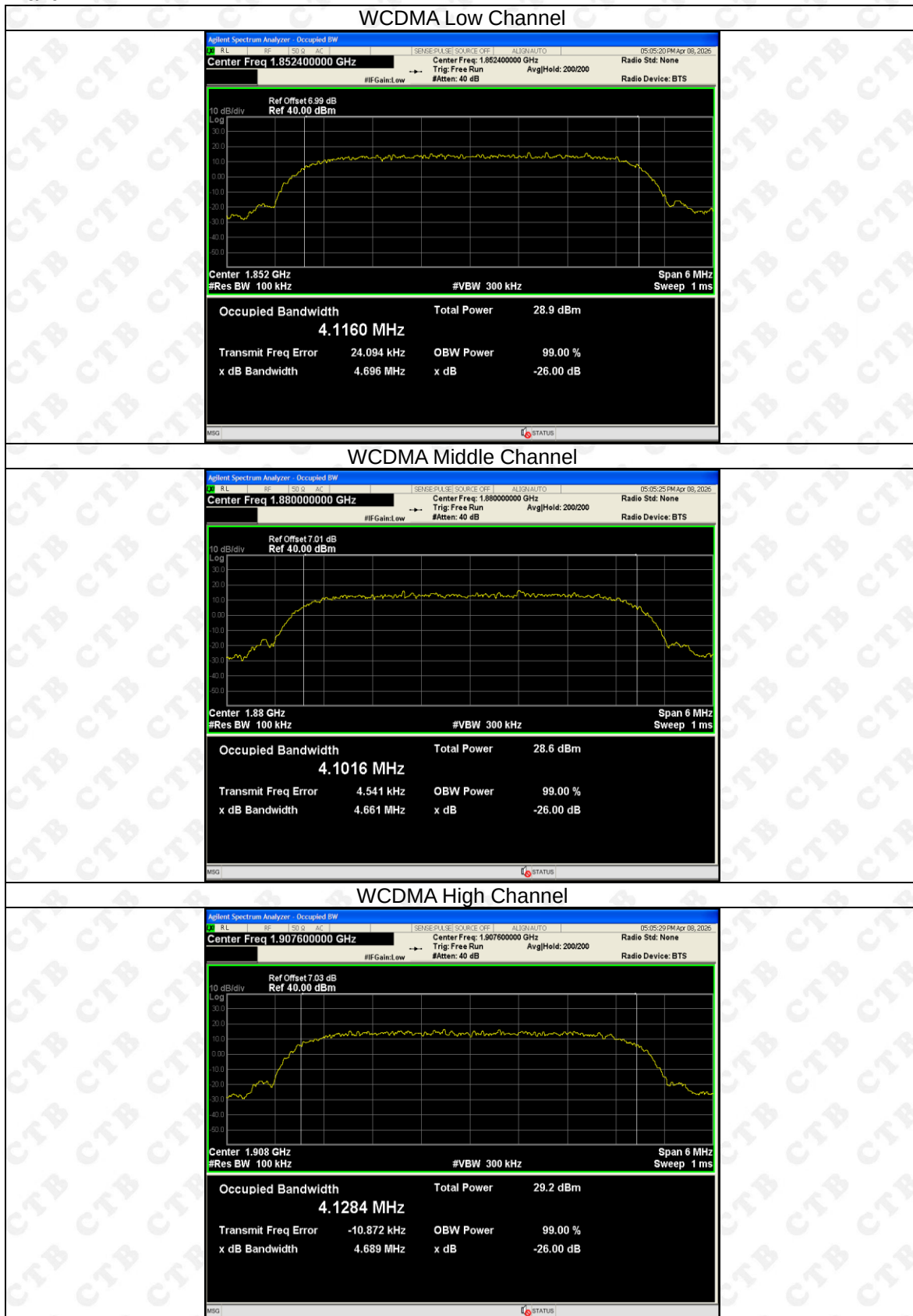
HSUPA Middle Channel



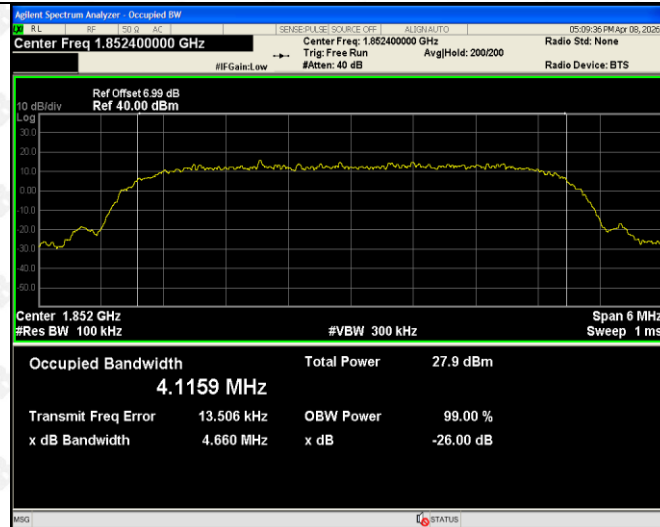
HSUPA High Channel



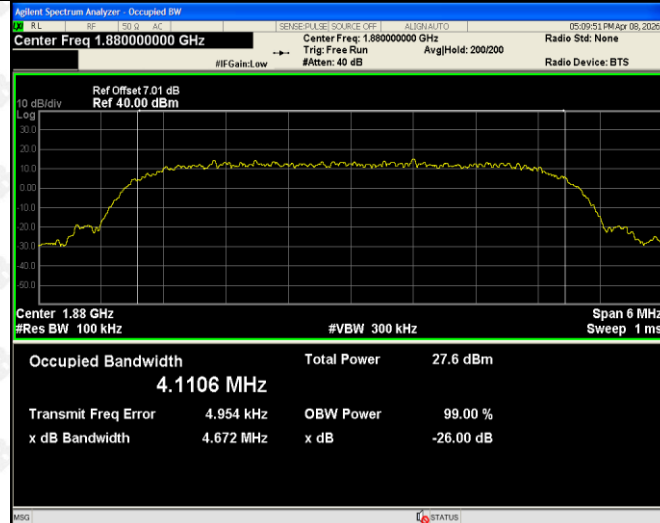
For Band II



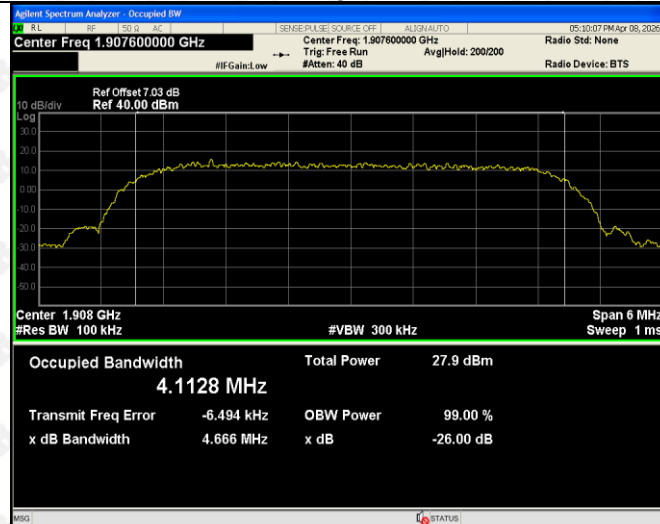
HSDPA Low Channel



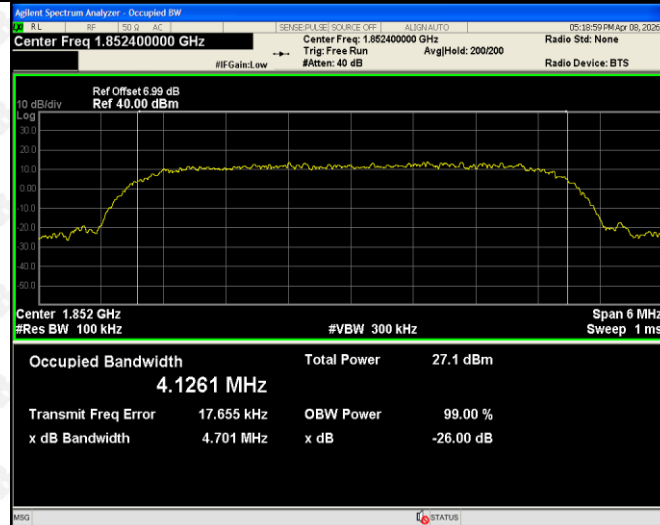
HSDPA Middle Channel



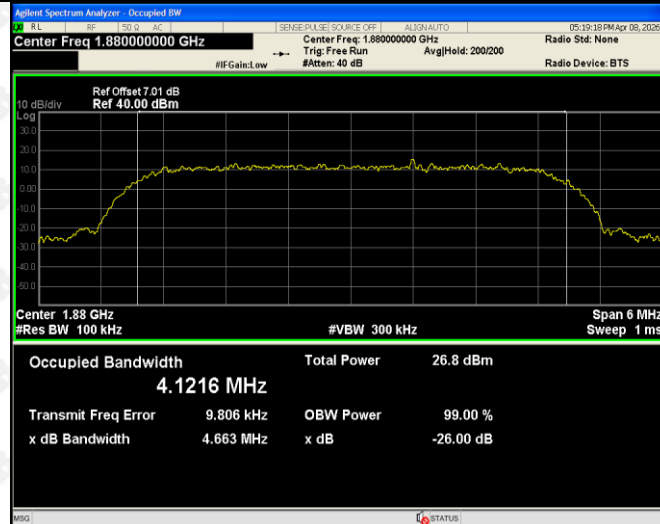
HSDPA High Channel



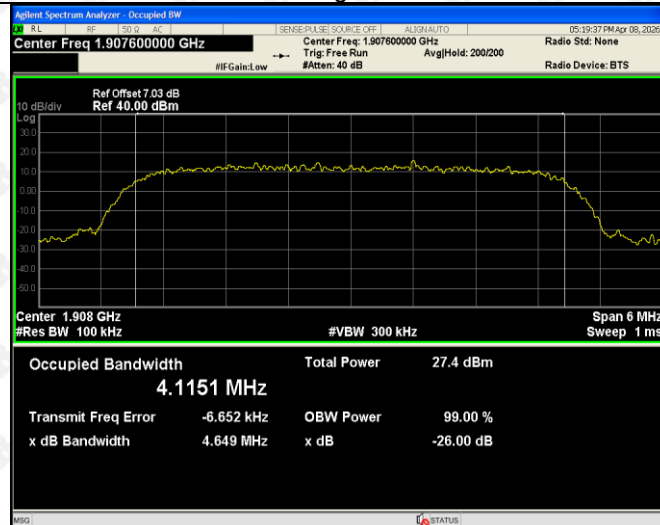
HSUPA Low Channel



HSUPA Middle Channel



HSUPA High Channel



9. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

9.1 Standard Applicable

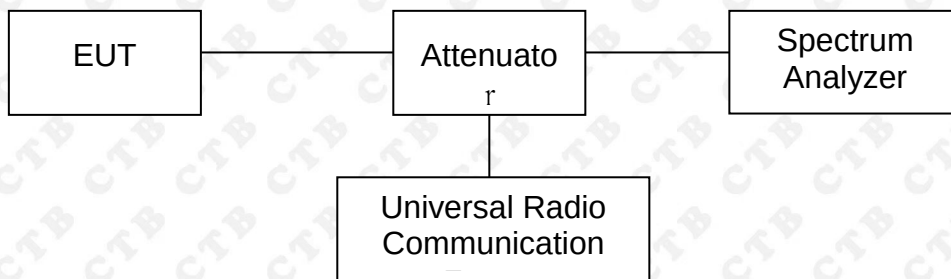
According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emissions 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.

9.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to 10th harmonic.

Test Configuration for the out of band emissions testing:



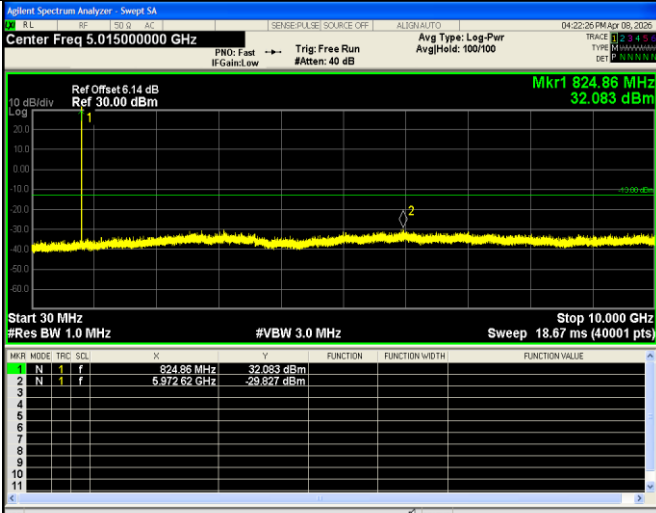
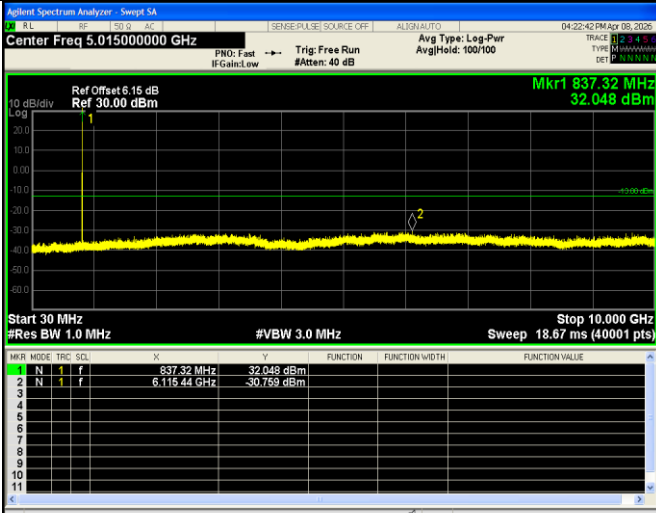
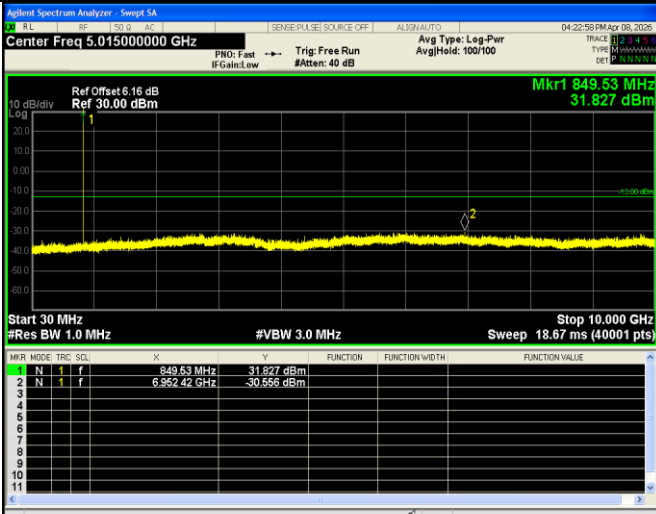
9.3 Environmental Conditions

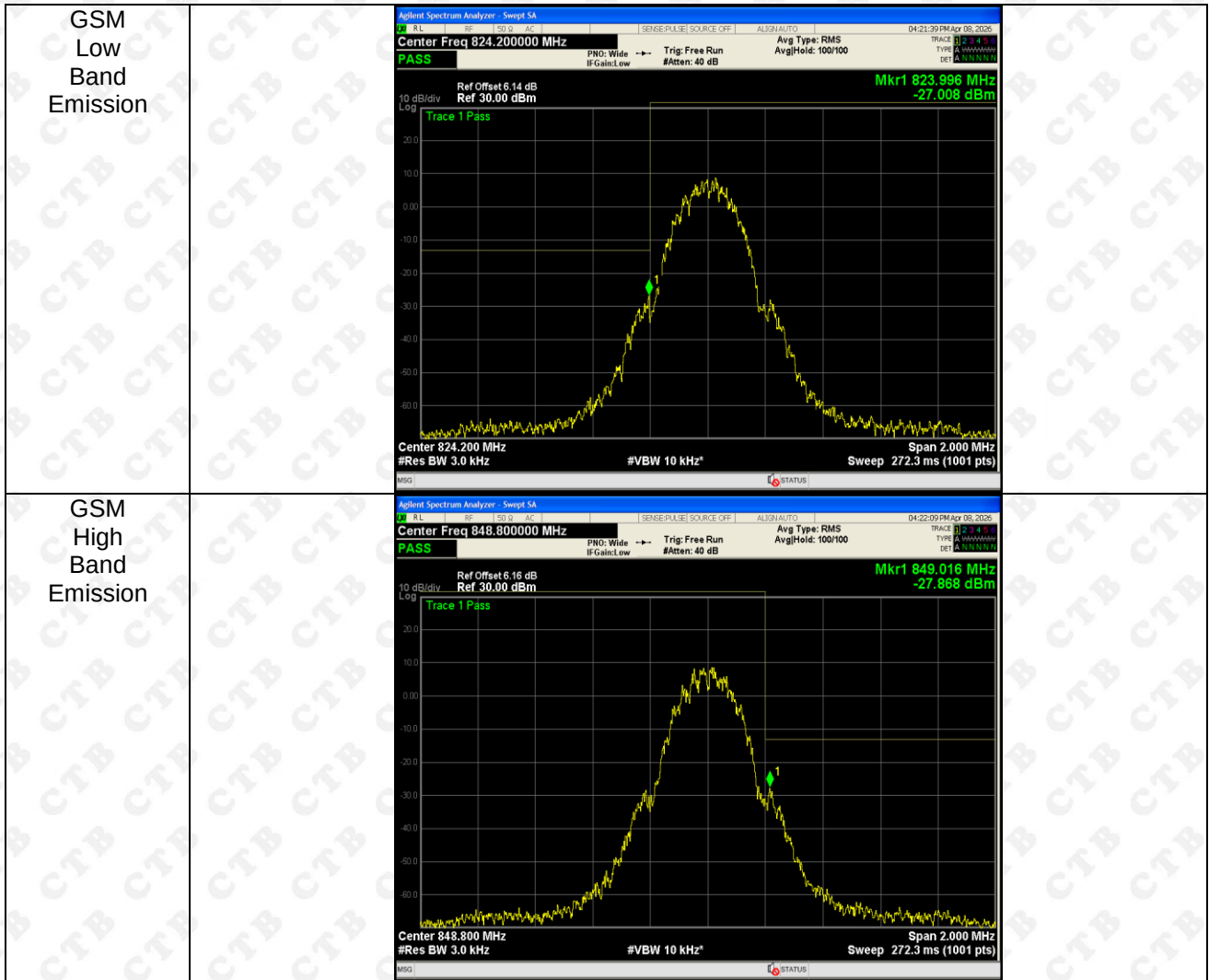
Temperature:	23 °C
Relative Humidity:	54%
ATM Pressure:	1010 mbar

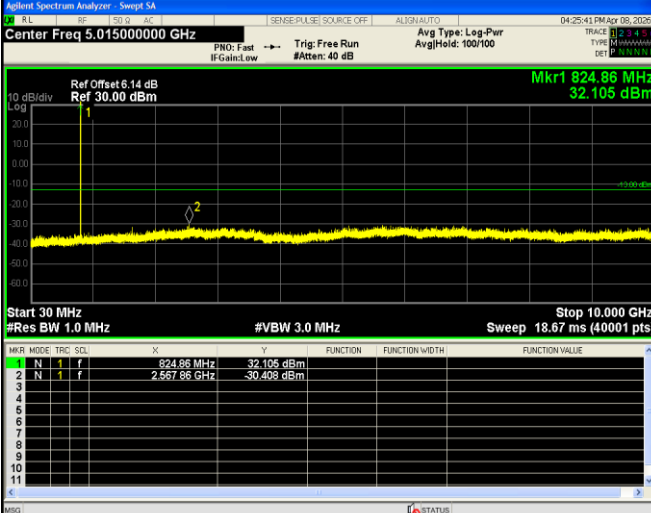
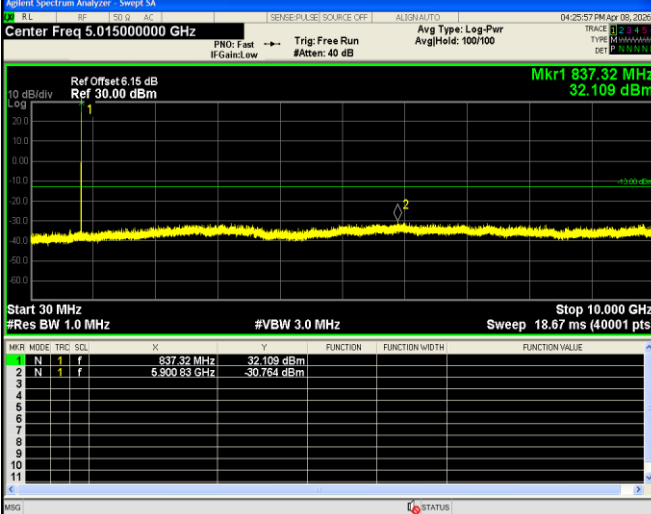
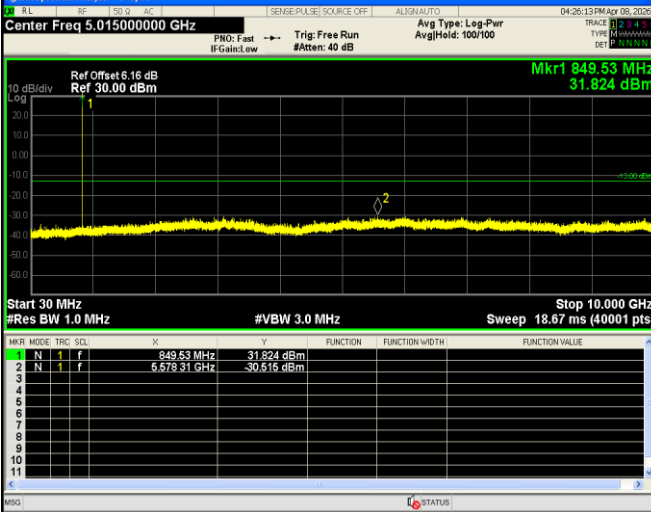
9.4 Summary of Test Results/Plots

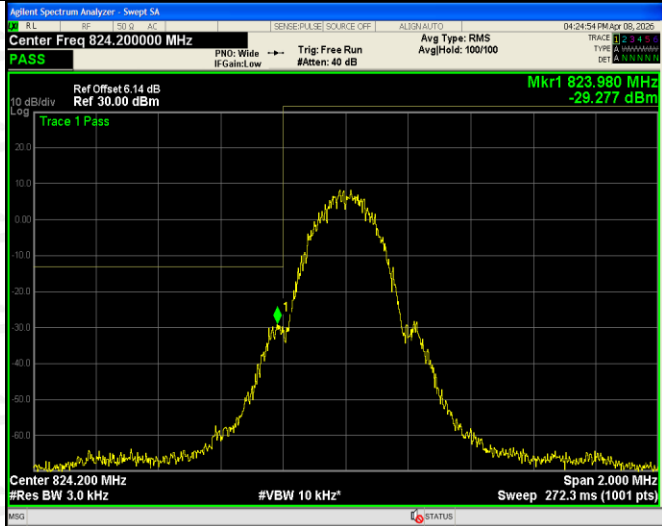
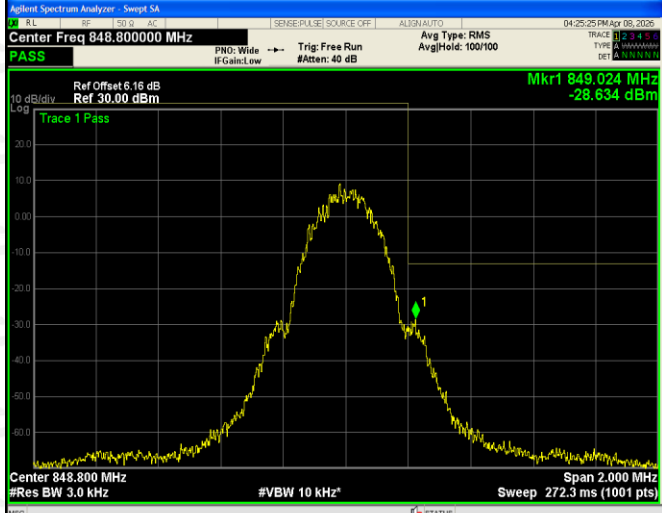
Please refer to the following test plots

For Cellular Band

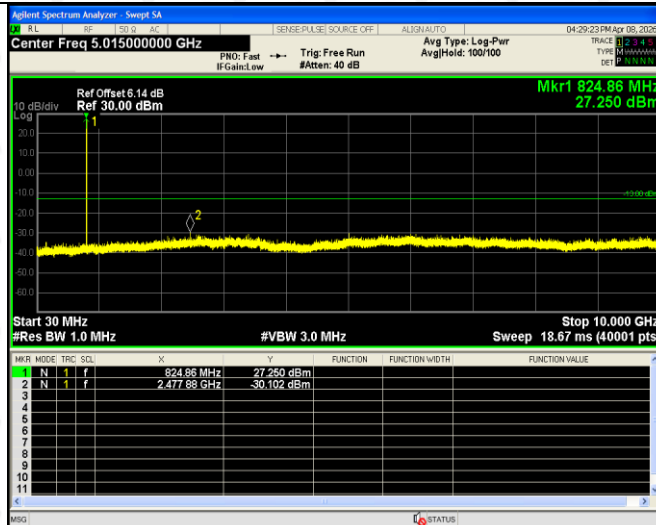
GSM Low Channel	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.015000000 GHz Ref Offset 6.14 dB Ref 30.00 dBm Mkr1 824.86 MHz 32.083 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) Stop 10.000 GHz <table><thead><tr><th>MNR</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>824.86 MHz</td><td>32.083 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>5.972.62 GHz</td><td>-29.827 dBm</td><td></td><td></td><td></td></tr></tbody></table>	MNR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	824.86 MHz	32.083 dBm				2	N	1	f	5.972.62 GHz	-29.827 dBm			
MNR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	824.86 MHz	32.083 dBm																							
2	N	1	f	5.972.62 GHz	-29.827 dBm																							
GSM Middle Channel	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.015000000 GHz Ref Offset 6.16 dB Ref 30.00 dBm Mkr1 837.32 MHz 32.048 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) Stop 10.000 GHz <table><thead><tr><th>MNR</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>837.32 MHz</td><td>32.048 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>6.115.44 GHz</td><td>-30.759 dBm</td><td></td><td></td><td></td></tr></tbody></table>	MNR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	837.32 MHz	32.048 dBm				2	N	1	f	6.115.44 GHz	-30.759 dBm			
MNR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	837.32 MHz	32.048 dBm																							
2	N	1	f	6.115.44 GHz	-30.759 dBm																							
GSM High Channel	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.015000000 GHz Ref Offset 6.16 dB Ref 30.00 dBm Mkr1 849.53 MHz 31.827 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) Stop 10.000 GHz <table><thead><tr><th>MNR</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>849.53 MHz</td><td>31.827 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>6.952.42 GHz</td><td>-30.556 dBm</td><td></td><td></td><td></td></tr></tbody></table>	MNR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	849.53 MHz	31.827 dBm				2	N	1	f	6.952.42 GHz	-30.556 dBm			
MNR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	849.53 MHz	31.827 dBm																							
2	N	1	f	6.952.42 GHz	-30.556 dBm																							



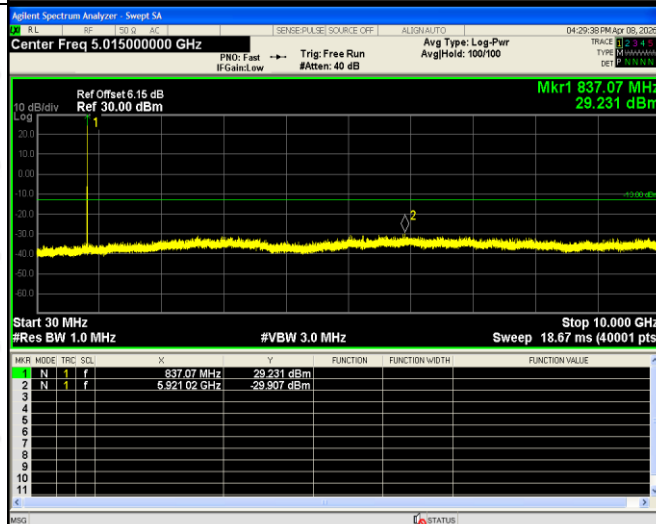
GPRS Low Channel	
GPRS Middle Channel	
GPRS High Channel	

GPRS Low Band Emission	
GPRS High Band Emission	

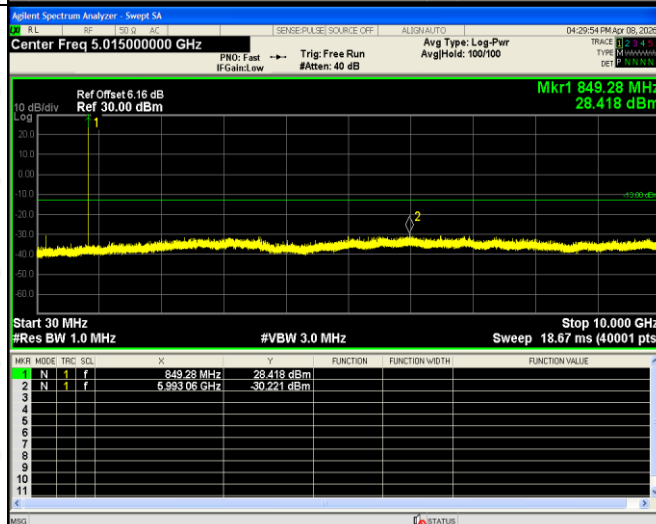
EDGE
Low
Channel



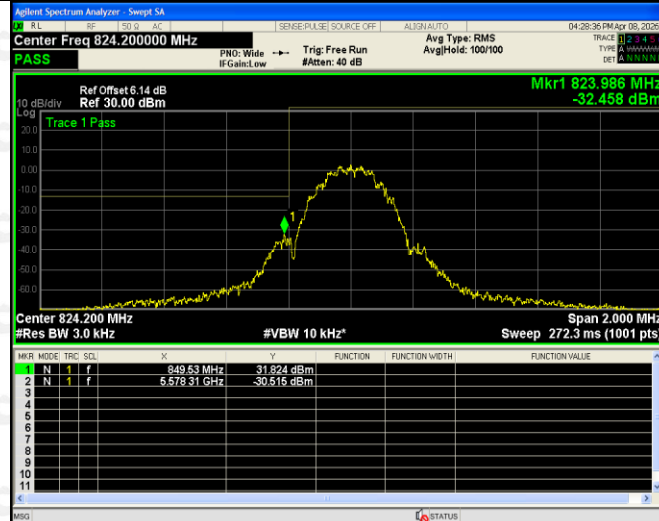
EDGE
Middle
Channel



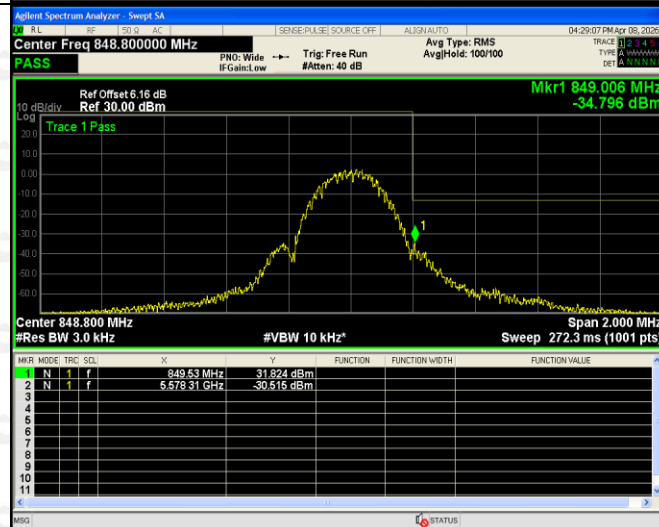
EDGE
High
Channel



EDGE
Low
Band
Emission

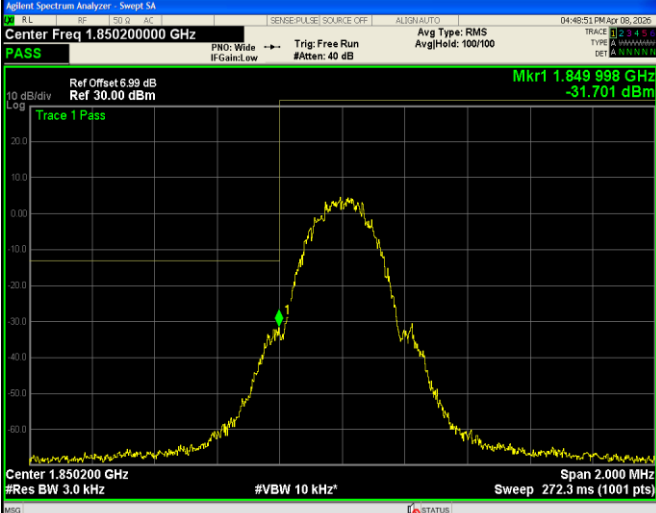
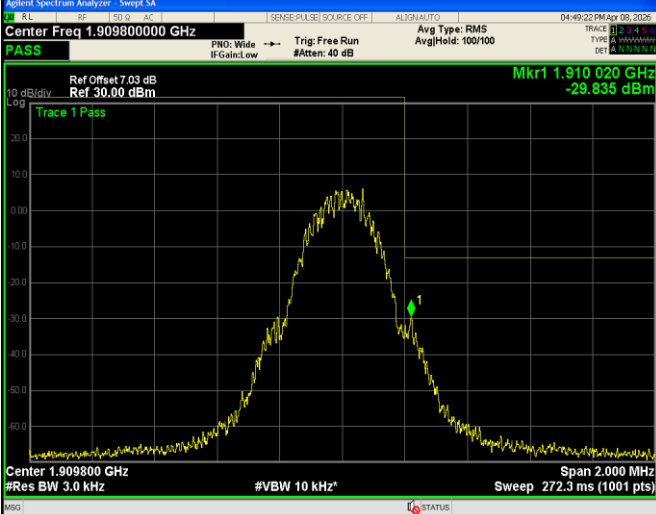


EDGE
High
Band
Emission

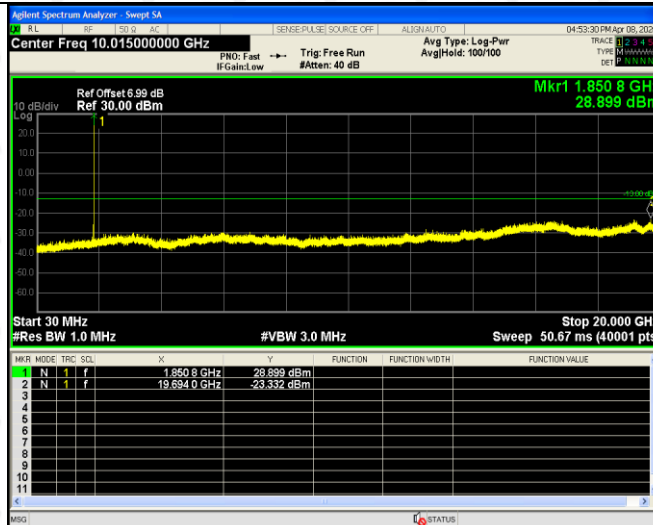


For PCS Band

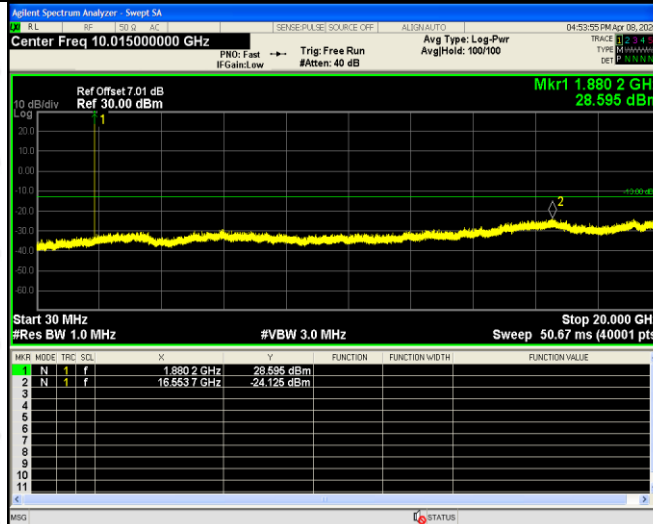
GSM Low Channel	Agilent Spectrum Analyzer - Sweep SA Center Freq 10.01500000 GHz Ref Offset: 6.99 dB Ref 30.00 dBm Mkr1 1.850 8 GHz 28.863 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 20.000 GHz Sweep 50.67 ms (40001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>1.850 8 GHz</td><td>28.863 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>16.543 7 GHz</td><td>-23.036 dBm</td><td></td><td></td><td></td></tr></tbody></table>	MNR	MODE	TRG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.850 8 GHz	28.863 dBm				2	N	1	f	16.543 7 GHz	-23.036 dBm			
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GSM Low Band Emission	
GSM High Band Emission	

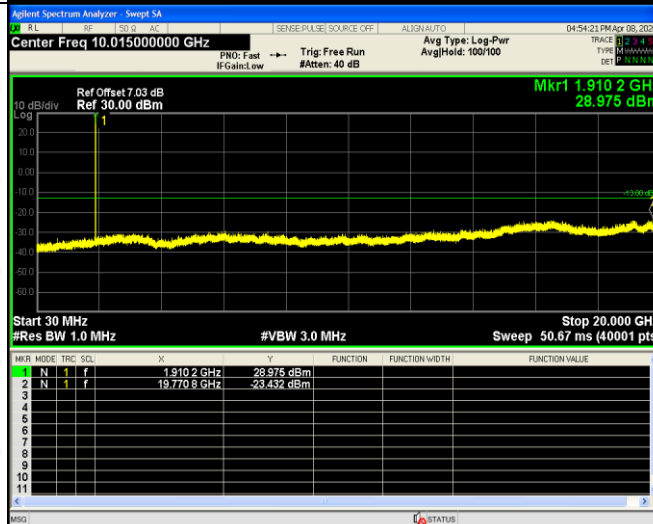
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Low
Channel



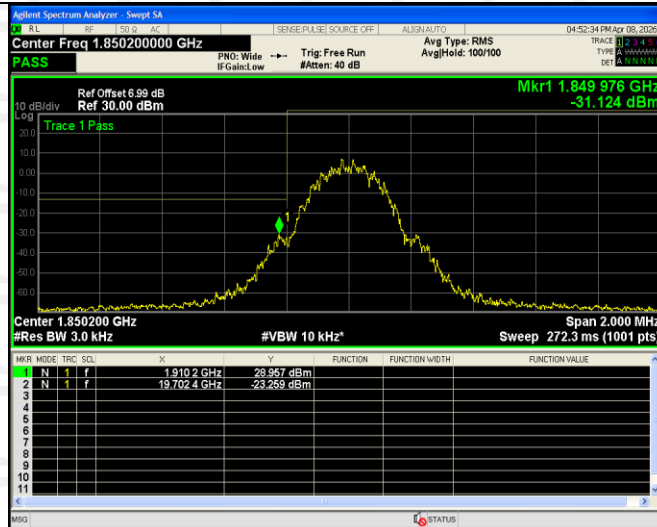
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Middle
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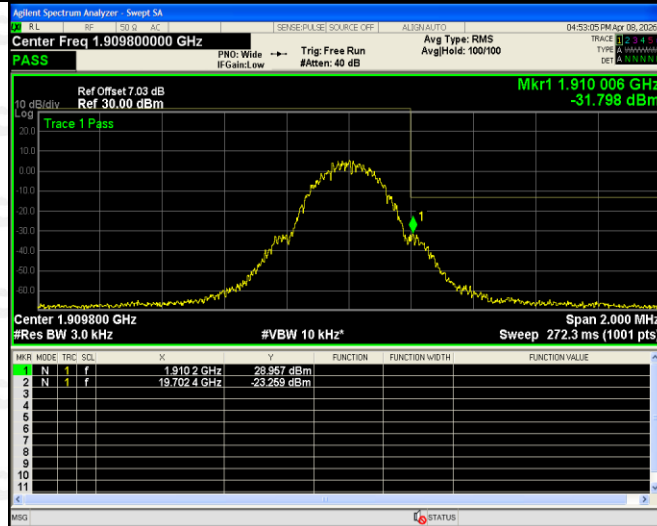
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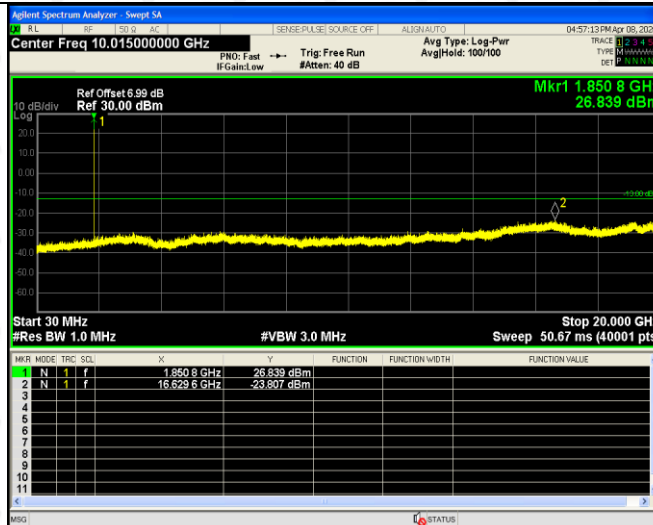
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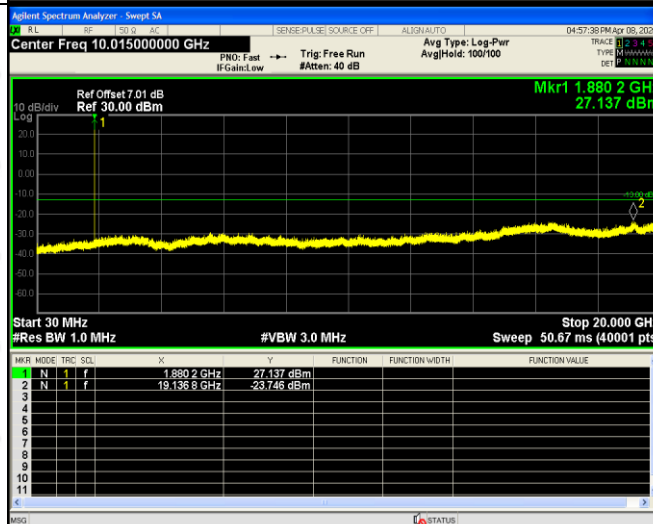
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Band
Emission



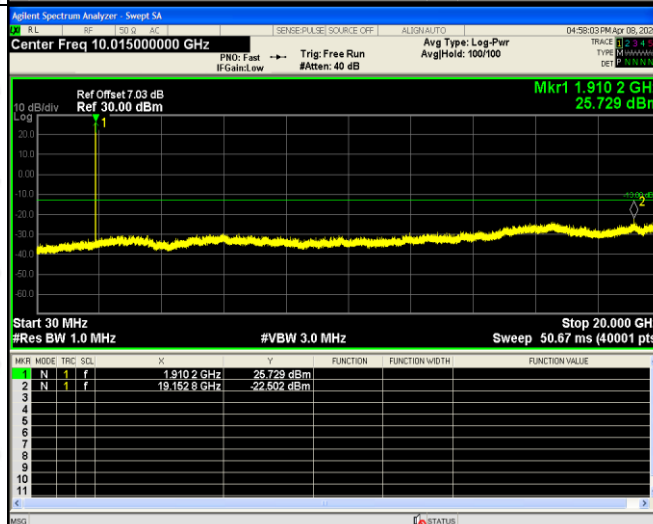
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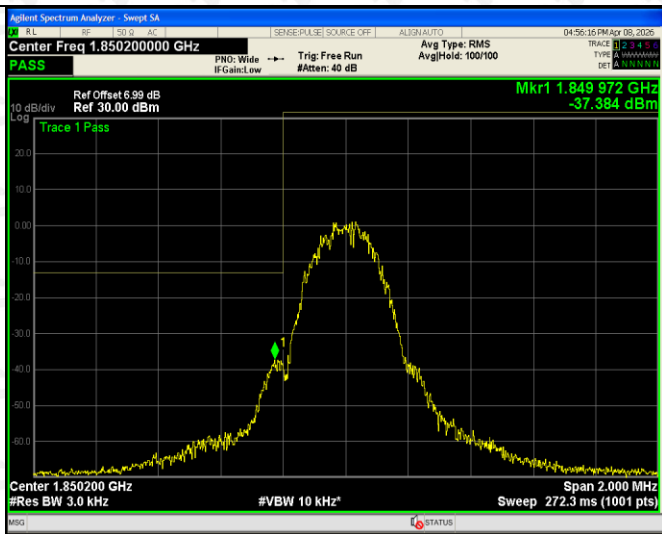
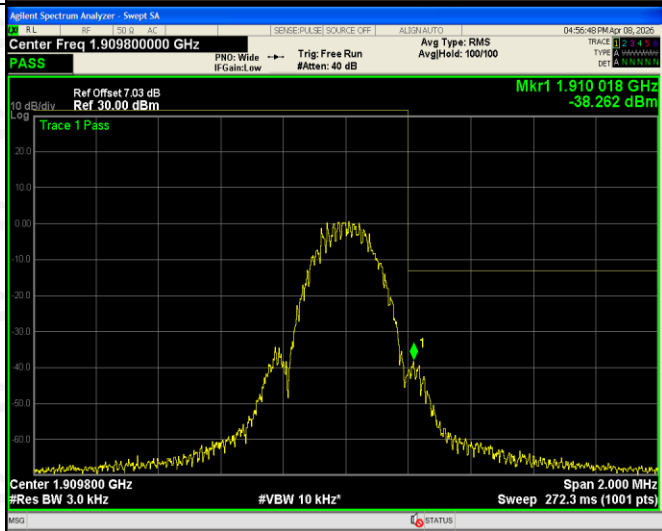


EDGE
Middle
Channel



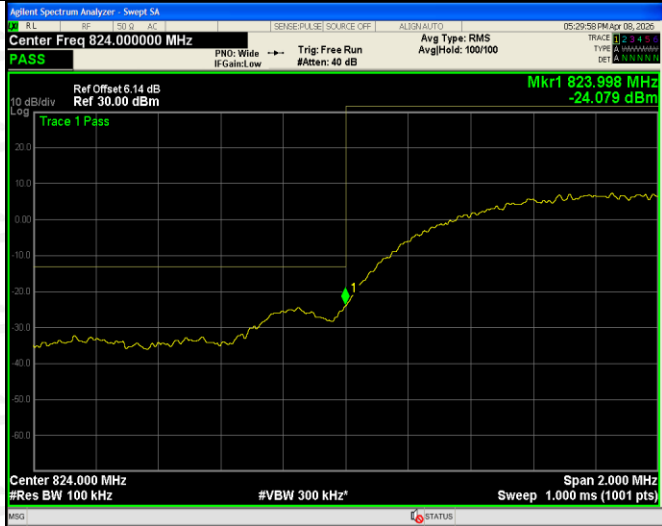
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High
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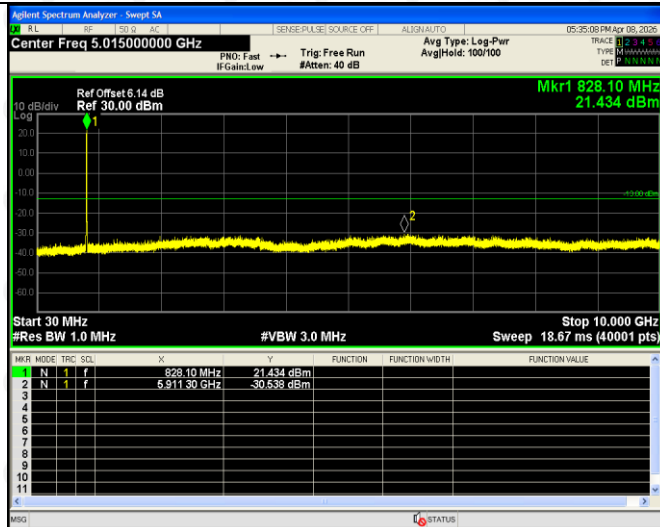
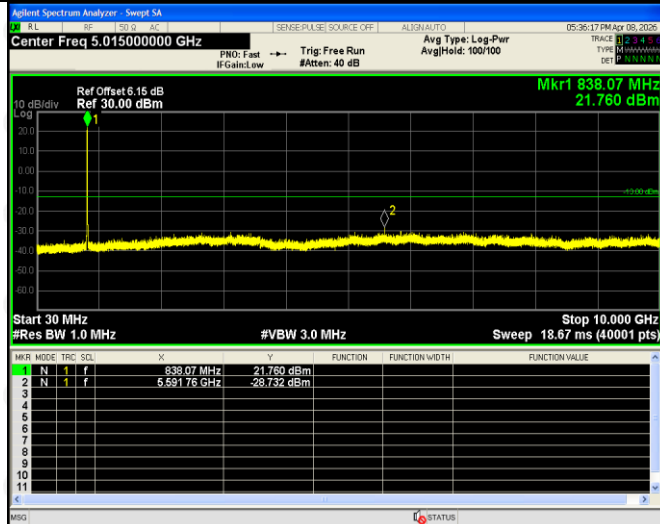
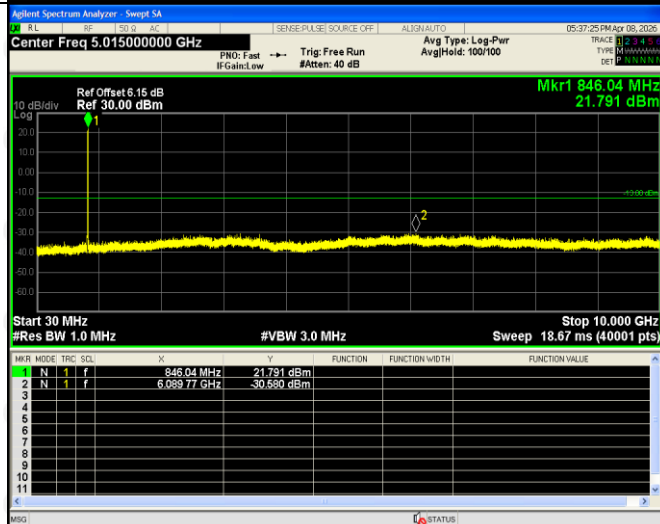


EDGE Low Band Emission	 Agilent Spectrum Analyzer - Swept SA Center Freq 1.850200000 GHz PNO: Wide IF Gain: Low Trig: Free Run #Atten: 40 dB Avg Type: RMS Avg/Hold: 100/100 Ref Offset 6.99 dB Ref 30.00 dBm Mkr1 1.849 972 GHz -37.384 dBm Trace 1 Pass Center 1.850200 GHz #Res BW 3.0 kHz #VBW 10 kHz* Span 2.000 MHz Sweep 272.3 ms (1001 pts)
EDGE High Band Emission	 Agilent Spectrum Analyzer - Swept SA Center Freq 1.909800000 GHz PNO: Wide IF Gain: Low Trig: Free Run #Atten: 40 dB Avg Type: RMS Avg/Hold: 100/100 Ref Offset 7.03 dB Ref 30.00 dBm Mkr1 1.910 018 GHz -38.262 dBm Trace 1 Pass Center 1.909800 GHz #Res BW 3.0 kHz #VBW 10 kHz* Span 2.000 MHz Sweep 272.3 ms (1001 pts)

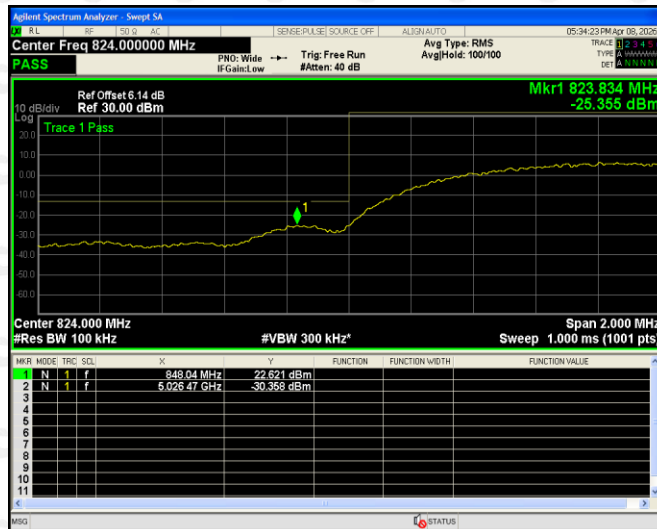
For Band V

WCDMA Low Channel	Agilent Spectrum Analyzer - Sweep SA Center Freq 5.015000000 GHz Ref Offset 6.14 dB Ref 30.00 dBm Mkr1 828.35 MHz 22.376 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 10.000 GHz Sweep 18.67 ms (40001 pts) <table><tr><th>M/R</th><th>MODE</th><th>TRC</th><th>SQL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>828.35 MHz</td><td>22.376 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>5.680 00 GHz</td><td>-29.923 dBm</td><td></td><td></td><td></td></tr></table>	M/R	MODE	TRC	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	828.35 MHz	22.376 dBm				2	N	1	f	5.680 00 GHz	-29.923 dBm			
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WCDMA Low Band Spurious Emission	
WCDMA High Band Spurious Emission	

HSDPA
Low
Channel

HSDPA
Middle
Channel

HSDPA
High
Channel


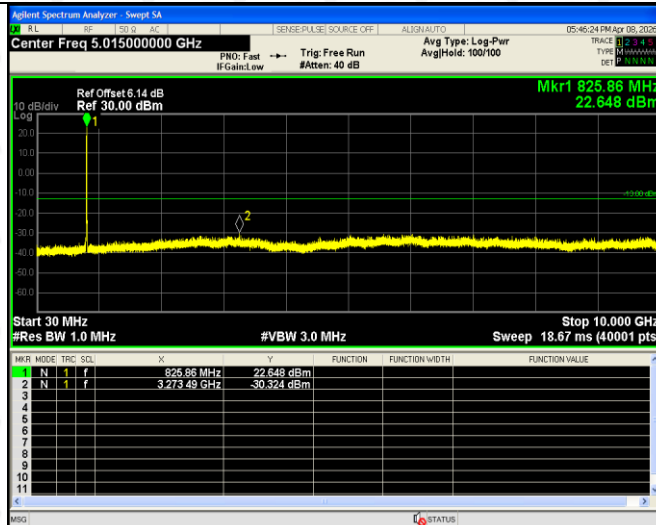
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Low
Band
Spurious
Emission



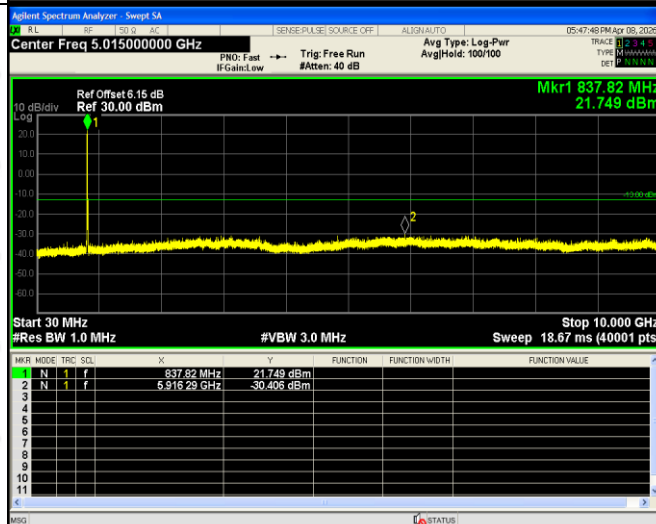
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Band
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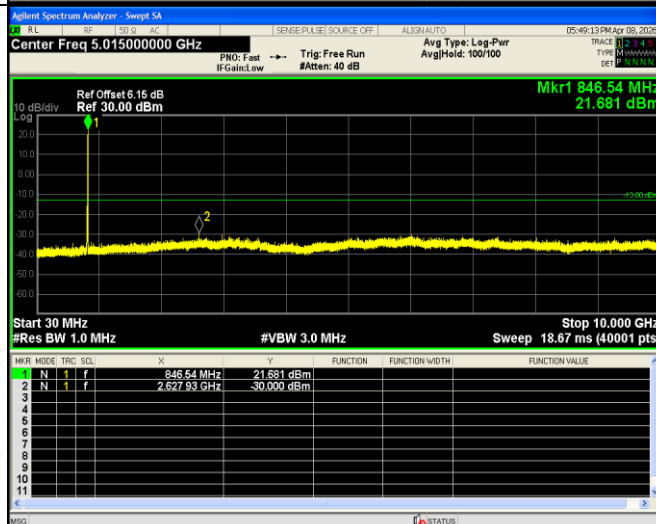
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Low
Channel

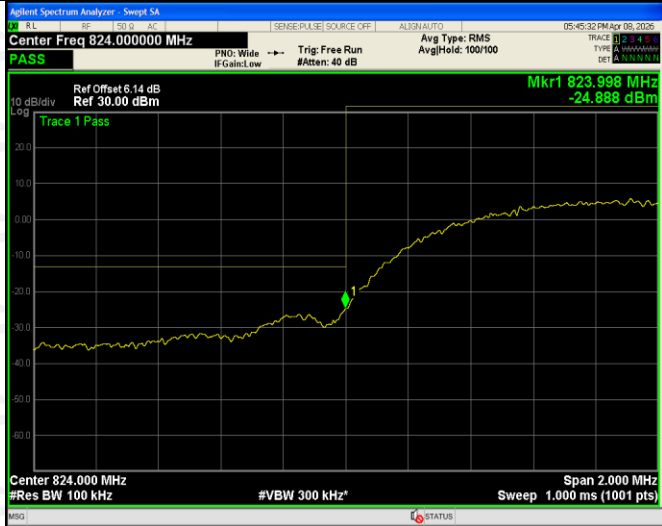


HSUPA
Middle
Channel

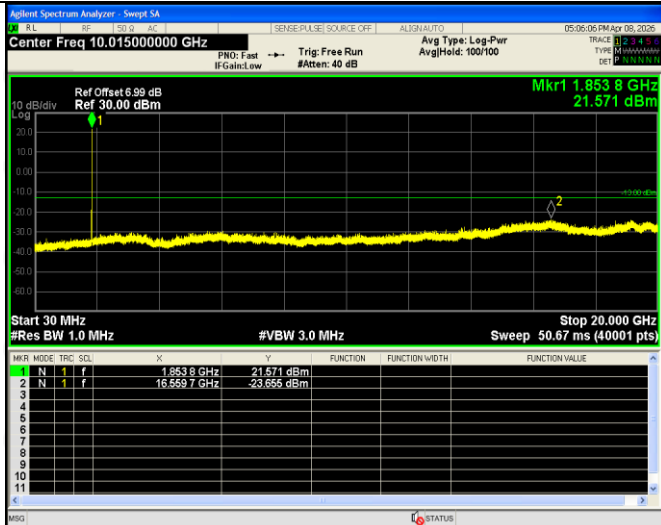
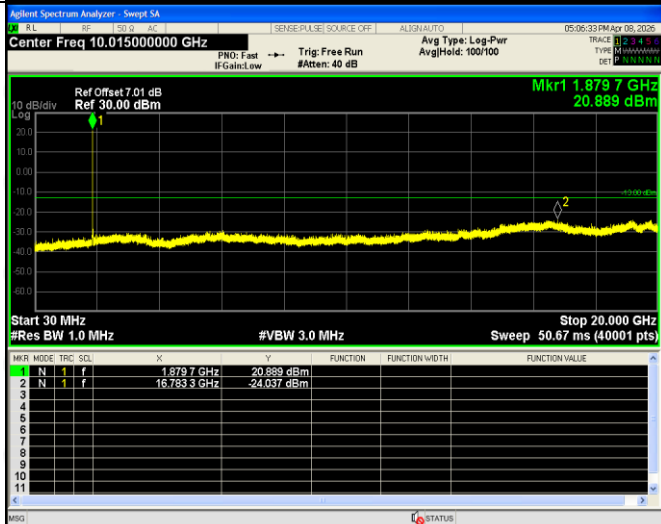
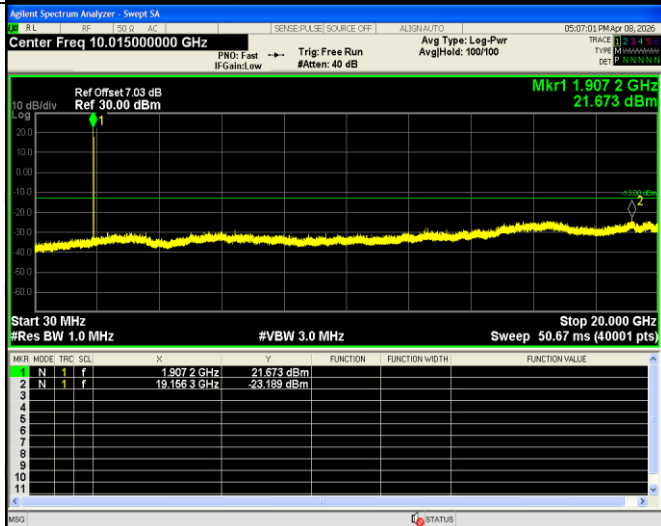


HSUPA
High
Channel



HSUPA Low Band Spurious Emission	
HSUPA High Band Spurious Emission	

For Band II

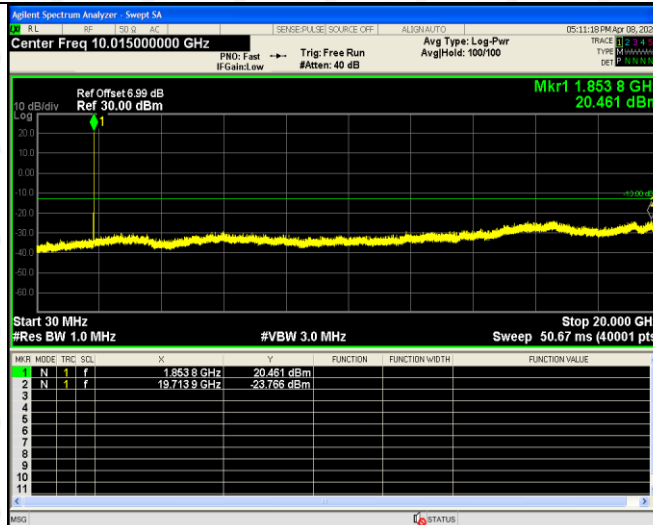
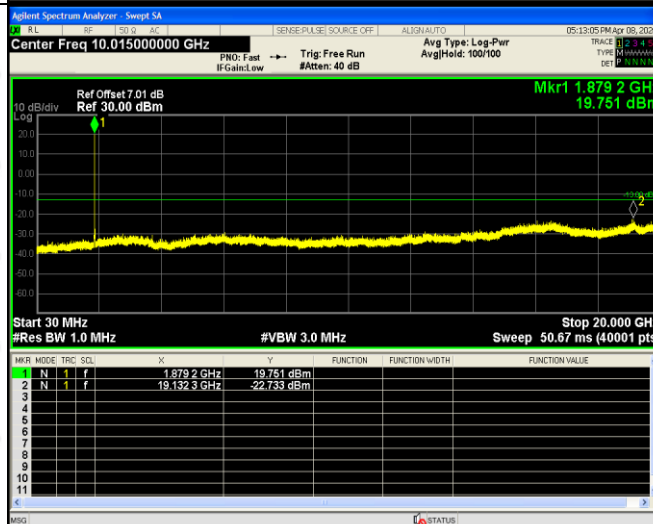
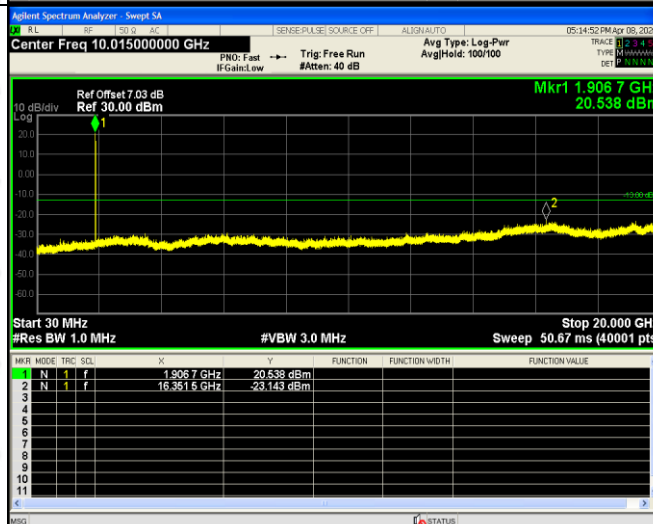
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WCDMA
Low
Band
Spurious
Emission



WCDMA
High
Band
Spurious
Emission



HSDPA
Low
Channel

HSDPA
Middle
Channel

HSDPA
High
Channel


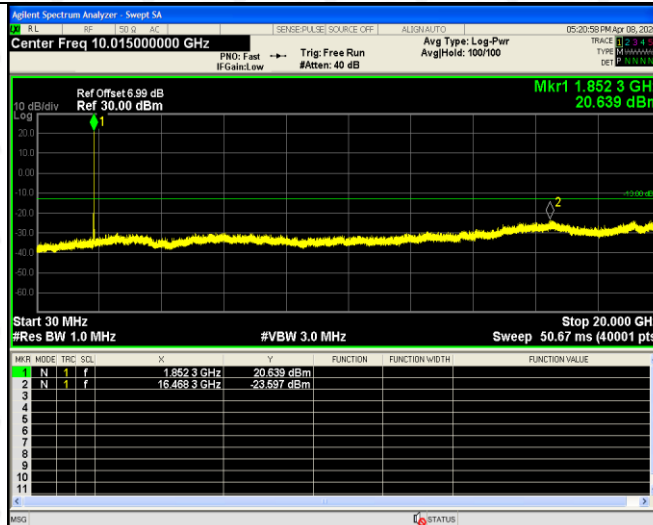
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Band
Spurious
Emission



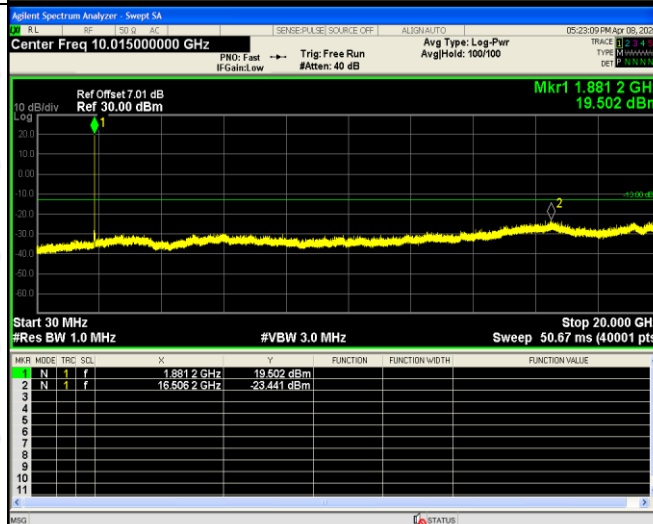
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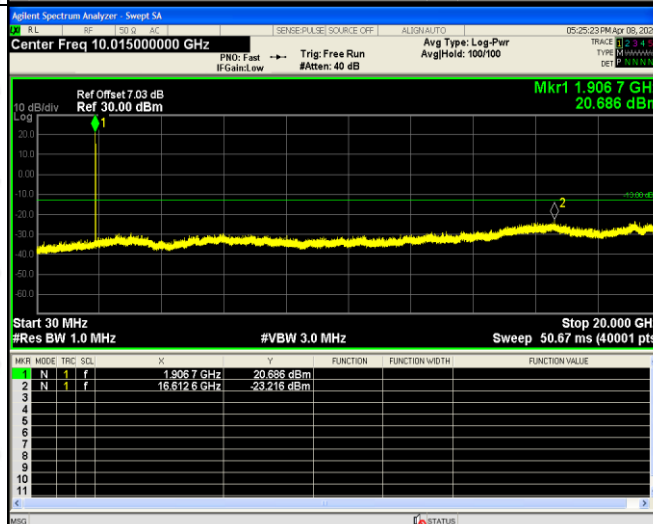
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Low
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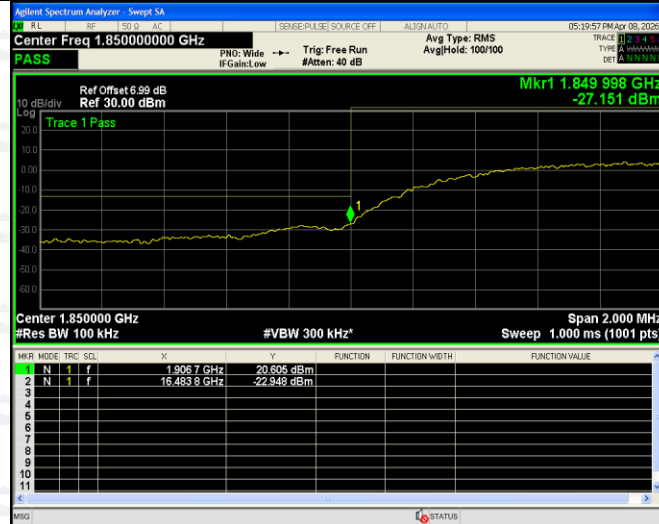
HSUPA
Middle
Channel



HSUPA
High
Channel



HSUPA
Low
Band
Spurious
Emission



HSUPA
High
Band
Spurious
Emission



10. SPURIOUS RADIATED EMISSIONS

10.1 Standard Applicable

According to §22.917(a), the power of any emissions 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.

According to §24.238(a), the power of any emissions 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 Procedure

- 1.The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
- 2.The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3.The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4.Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious attenuation limit in dB $= 43 + 10 \log_{10}(\text{power out in Watts})$

10.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	54%
ATM Pressure:	101 kPa
Test Voltage	DC 3.7V

10.4 Summary of Test Results/Plots

According to the data below, the FCC Part22.917 and 24.238 standards, and had the worst margin of:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

All test modes are performed, but only the worst case is recorded in this report.

For Cellular Band GSM850 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (824.2MHz)						
45.83	-69.54	3.9	-65.64	-13	-52.64	H
1645.83	-58.40	4.83	-53.57	-13	-40.57	H
2471.69	-54.96	8.08	-46.88	-13	-33.88	H
43.03	-71.98	4.02	-67.96	-13	-54.96	V
1643.56	-49.74	4.48	-45.26	-13	-32.26	V
2466.83	-49.14	8.2	-40.94	-13	-27.94	V
Middle Channel (836.6MHz)						
39.83	-74.37	3.84	-70.53	-13	-57.53	H
1665.18	-54.40	4.62	-49.78	-13	-36.78	H
2509.66	-49.42	8.25	-41.17	-13	-28.17	H
37.36	-69.32	4.25	-65.07	-13	-52.07	V
1669.69	-52.97	4.54	-48.43	-13	-35.43	V
2502.81	-56.69	8.35	-48.34	-13	-29.75	V
High Channel (848.8MHz)						
39.36	-73.62	4.22	-77.84	-13	-64.84	H
1695.70	-58.22	4.87	-63.09	-13	-50.09	H
2544.93	-54.68	8.38	-63.06	-13	-50.06	H
44.79	-72.16	4.02	-76.18	-13	-63.18	V
1694.52	-54.11	4.56	-58.67	-13	-45.67	V
2544.81	-51.32	8.41	-59.73	-13	-46.73	V

For PCS Band GSM1900 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1850.2MHz)						
43.71	-70.55	4.34	-66.21	-13	-53.21	H
3699.21	-58.01	10.54	-47.47	-13	-34.47	H
5547.34	-57.98	13.37	-44.61	-13	-31.61	H
45.03	-68.93	4.34	-64.59	-13	-51.59	V
3691.47	-53.39	10.54	-42.85	-13	-29.85	V
5550.15	-56.28	13.37	-42.91	-13	-29.91	V
Middle Channel (1880MHz)						
37.99	-68.40	4.02	-64.38	-13	-51.38	H
3758.74	-54.66	10.71	-43.95	-13	-30.95	H
5638.06	-54.78	13.73	-41.05	-13	-28.05	H
45.40	-70.82	4.14	-66.68	-13	-53.68	V
3751.25	-57.84	10.22	-47.62	-13	-34.62	V
5636.19	-59.89	13.16	-46.73	-13	-33.73	V
High Channel (1909.8MHz)						
39.39	-71.11	4.02	-67.09	-13	-54.09	H
3813.86	-59.89	4.9	-54.99	-13	-41.99	H
5720.68	-48.84	8.09	-40.75	-13	-27.75	H
46.11	-56.46	4.25	-52.21	-13	-39.21	V
3813.14	-63.34	4.93	-58.41	-13	-45.41	V
5727.38	-57.89	8.43	-49.46	-13	-36.46	V

For Band 5 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (826.4MHz)						
44.99	-71.21	3.91	-67.30	-13	-54.30	H
1649.30	-52.29	10.56	-41.73	-13	-28.73	H
2476.75	-54.51	13.5	-41.01	-13	-28.01	H
37.17	-68.25	3.93	-64.32	-13	-51.32	V
1643.61	-55.85	10.41	-45.44	-13	-32.44	V
2477.98	-62.06	13.16	-48.90	-13	-35.90	V
Middle Channel (836.6MHz)						
43.13	-68.67	4.02	-64.65	-13	-51.65	H
1665.14	-56.23	4.66	-51.57	-13	-38.57	H
2504.18	-40.86	8.34	-32.52	-13	-19.52	H
38.36	-59.59	4.17	-55.42	-13	-42.42	V
1668.92	-64.08	4.94	-59.14	-13	-46.14	V
2508.07	-57.55	8.19	-49.36	-13	-36.36	V
High Channel (846.6MHz)						
37.78	-66.22	3.87	-62.35	-13	-49.35	H
1688.50	-58.69	4.89	-53.80	-13	-40.80	H
2533.03	-45.54	8.42	-37.12	-13	-24.12	H
36.55	-62.73	3.95	-58.78	-13	-45.78	V
1691.25	-55.38	4.99	-50.39	-13	-37.39	V
2530.76	-58.19	8.12	-50.07	-13	-37.07	V

For Band 2 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1852.4MHz)						
40.75	-71.68	3.91	-67.77	-13	-54.77	H
1648.08	-51.53	10.56	-40.97	-13	-27.97	H
2474.96	-59.73	13.5	-46.23	-13	-33.23	H
40.90	-67.24	3.93	-63.31	-13	-50.31	V
1645.46	-53.92	10.41	-43.51	-13	-30.51	V
2474.83	-58.99	13.16	-45.83	-13	-32.83	V
Middle Channel (1880MHz)						
44.73	-66.92	4.02	-62.90	-13	-49.90	H
1670.53	-59.52	4.66	-54.86	-13	-41.86	H
2500.82	-50.55	8.34	-42.21	-13	-29.21	H
37.62	-56.36	4.17	-52.19	-13	-39.19	V
1669.90	-63.96	4.94	-59.02	-13	-46.02	V
2508.99	-63.03	8.19	-54.84	-13	-41.84	V
High Channel (1907.6MHz)						
45.58	-67.62	3.87	-63.75	-13	-50.75	H
1690.14	-62.52	4.89	-57.63	-13	-44.63	H
2537.70	-44.22	8.42	-35.80	-13	-22.80	H
39.14	-56.38	3.95	-52.43	-13	-39.43	V
1686.94	-61.45	4.99	-56.46	-13	-43.46	V
2537.59	-58.43	8.12	-50.31	-13	-37.31	V

Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

11. FREQUENCY STABILITY

11.1 Standard Applicable

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Cellular Band

Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	N/A	N/A
929 to 960	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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

11.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode

11.3 Environmental Conditions

Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	101kPa

11.4 Summary of Test Results/Plots

For Cellular Band GSM Mode

Reference Frequency(Middle Channel): 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	8.76	0.01047
40	NV	8.97	0.01072
30	NV	9.51	0.01137
20	NV	9.78	0.01169
10	NV	10.06	0.01202
0	NV	10.74	0.01284
-10	NV	10.10	0.01207
-20	NV	10.45	0.01249
-30	NV	11.12	0.01329

For PCS Band GSM Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	12.16	0.00647
40	NV	12.20	0.00649
30	NV	13.10	0.00697
20	NV	12.53	0.00667
10	NV	12.97	0.00690
0	NV	14.05	0.00747
-10	NV	14.20	0.00756
-20	NV	13.97	0.00743
-30	NV	14.87	0.00791

For Cellular Band GPRS Mode

Reference Frequency(Middle Channel): 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	9.16	0.01094
40	NV	9.37	0.01120
30	NV	9.19	0.01098
20	NV	9.58	0.01145
10	NV	10.35	0.01237
0	NV	10.20	0.01219
-10	NV	10.45	0.01249
-20	NV	10.97	0.01312
-30	NV	11.40	0.01362

For PCS Band GPRS Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	11.95	0.00636
40	NV	13.01	0.00692
30	NV	12.42	0.00661
20	NV	12.92	0.00687
10	NV	13.50	0.00718
0	NV	13.25	0.00705
-10	NV	14.16	0.00753
-20	NV	13.80	0.00734
-30	NV	14.29	0.00760

For Cellular Band EDGE Mode

Reference Frequency(Middle Channel): 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	10.69	0.01278
40	NV	11.62	0.01389
30	NV	11.45	0.01369
20	NV	11.88	0.01420
10	NV	12.23	0.01462
0	NV	11.95	0.01429
-10	NV	11.85	0.01416
-20	NV	12.70	0.01518
-30	NV	12.92	0.01544

For PCS Band EDGE Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-10.22	-0.00544
40	NV	-9.31	-0.00495
30	NV	-9.99	-0.00531
20	NV	-9.65	-0.00513
10	NV	-8.93	-0.00475
0	NV	-8.73	-0.00464
-10	NV	-8.83	-0.00469
-20	NV	-8.17	-0.00434
-30	NV	-8.04	-0.00428

For WCDMA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	0.28	0.00034
40	NV	0.57	0.00068
30	NV	0.34	0.00040
20	NV	0.89	0.00107
10	NV	0.42	0.00051
0	NV	1.37	0.00164
-10	NV	0.95	0.00114
-20	NV	0.95	0.00114
-30	NV	1.17	0.00140

For WCDMA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	0.08	0.00004
40	NV	-0.14	-0.00007
30	NV	0.77	0.00041
20	NV	0.58	0.00031
10	NV	1.16	0.00062
0	NV	0.61	0.00032
-10	NV	0.48	0.00026
-20	NV	1.04	0.00055
-30	NV	1.26	0.00067

For HSDPA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-0.31	-0.00037
40	NV	-0.11	-0.00013
30	NV	-0.05	-0.00005
20	NV	0.66	0.00078
10	NV	0.85	0.00101
0	NV	1.03	0.00123
-10	NV	0.59	0.00071
-20	NV	1.19	0.00142
-30	NV	1.57	0.00188

For HSDPA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-0.13	-0.00007
40	NV	-0.56	-0.00030
30	NV	-0.03	-0.00002
20	NV	0.83	0.00044
10	NV	0.82	0.00044
0	NV	0.84	0.00045
-10	NV	1.01	0.00054
-20	NV	1.76	0.00093
-30	NV	2.07	0.00110

For HSUPA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	0.67	0.00080
40	NV	0.36	0.00043
30	NV	0.36	0.00043
20	NV	1.27	0.00152
10	NV	1.31	0.00157
0	NV	1.29	0.00154
-10	NV	2.11	0.00252
-20	NV	2.09	0.00250
-30	NV	1.91	0.00228

For HSUPA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	4.36	0.00232
40	NV	4.91	0.00261
30	NV	5.72	0.00304
20	NV	5.73	0.00305
10	NV	5.79	0.00308
0	NV	6.82	0.00363
-10	NV	6.62	0.00352
-20	NV	6.42	0.00341
-30	NV	6.61	0.00352

So, Frequency Stability Versus Input Voltage is:

Reference Frequency(Middle Channel): GSM 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	10.75	0.01285
	NV	10.89	0.01302
	HV	11.76	0.01406
Reference Frequency(Middle Channel): GSM 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	14.78	0.00786
	NV	14.50	0.00771
	HV	15.00	0.00798
Reference Frequency(Middle Channel): GPRS 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	11.28	0.01349
	NV	10.81	0.01292
	HV	11.76	0.01406
Reference Frequency(Middle Channel): GPRS 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	14.62	0.00777
	NV	14.79	0.00787
	HV	15.01	0.00798
Reference Frequency(Middle Channel): EDGE 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	12.96	0.01550
	NV	12.95	0.01549
	HV	13.24	0.01584
Reference Frequency(Middle Channel): EDGE 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-7.99	-0.00425
	NV	-7.89	-0.00420
	HV	-6.95	-0.00369

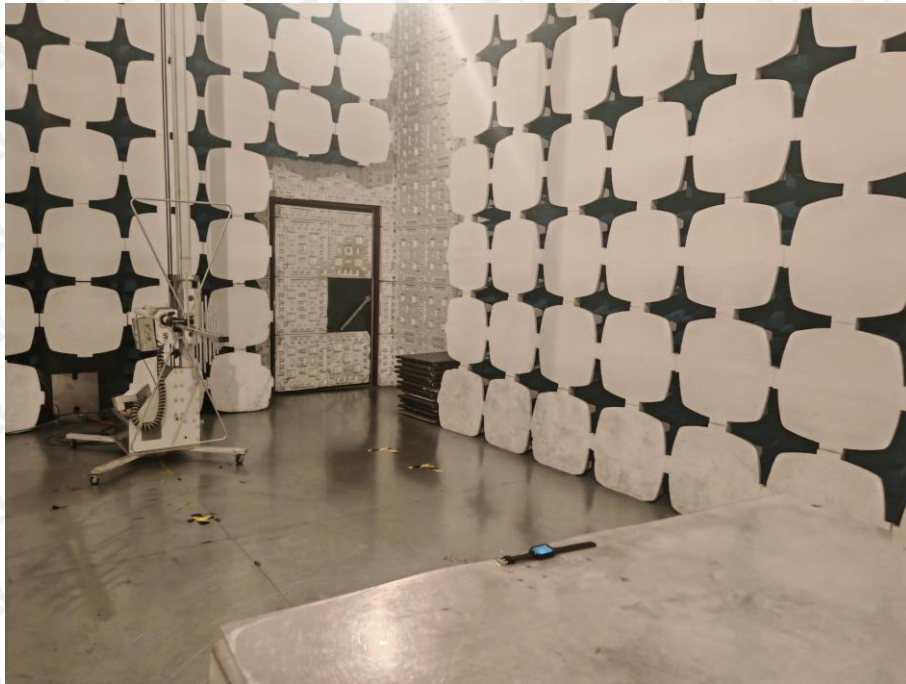
Reference Frequency(Middle Channel): WCDMA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	0.71	0.00085
	NV	1.78	0.00212
	HV	1.47	0.00175
Reference Frequency(Middle Channel): WCDMA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	0.71	0.00041
	NV	0.73	0.00042
	HV	1.80	0.00104
Reference Frequency(Middle Channel): WCDMA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	2.04	0.00109
	NV	2.83	0.00338
	HV	2.49	0.00298
Reference Frequency(Middle Channel): HSDPA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	1.62	0.00193
	NV	1.78	0.00213
	HV	2.15	0.00257
Reference Frequency(Middle Channel): HSDPA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	5.74	0.00331
	NV	6.16	0.00356
	HV	6.99	0.00404
Reference Frequency(Middle Channel): HSDPA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	6.70	0.00356
	NV	6.70	0.00356
	HV	7.58	0.00403

Reference Frequency(Middle Channel): HSUPA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	2.75	0.00329
	NV	3.05	0.00365
	HV	2.85	0.00341
Reference Frequency(Middle Channel): HSUPA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	5.80	0.00335
	NV	6.25	0.00361
	HV	6.62	0.00382
Reference Frequency(Middle Channel): HSUPA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	8.47	0.00451
	NV	8.89	0.00473
	HV	9.69	0.00515

12. EUT TEST PHOTO

Radiated Emission

Below 1G



Above 1G



***** END OF REPORT *****