

TEST REPORT

Applicant Name: TECNO MOBILE LIMITED
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Report Number: SZ1240108-01736E-RF-00C
FCC ID: 2ADYY-CL7S

Test Standard (s)

FCC PART 27; FCC PART 22H; FCC PART 24E

Sample Description

Product Type: Mobile Phone
Model No.: CL7s
Multiple Model(s) No.: N/A
Trade Mark: TECNO
Date Received: 2024/01/18
Issue Date: 2024/03/20

Test Result:	Pass [▲]
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Black Chen

Black Chen
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	SZ1240108-01736E-RF-00C	Original Report	2024/03/20

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Mobile Phone			
Tested Model	CL7s			
Multiple Model(s)	N/A			
Frequency Range	GSM 850: 824-849MHz(TX); 869-894MHz(RX) PCS 1900: 1850-1910MHz(TX); 1930-1990MHz(RX) WCDMA Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX) WCDMA Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX) WCDMA Band 5: 824-849MHz(TX); 869-894MHz(RX) LTE Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX) LTE Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX) LTE Band 5: 824-849MHz(TX); 869-894MHz(RX) LTE Band 7: 2500-2570MHz(TX); 2620-2690MHz(TX) LTE Band 12: 699-716MHz(TX); 729-746MHz(RX) LTE Band 13: 777-787MHz(TX); 746-756MHz(RX) LTE Band 17: 704-716MHz(TX); 734-746MHz(RX) LTE Band 38: 2570-2620MHz(TX/RX) LTE Band 40 Lower: 2305-2315MHz (TX/RX) LTE Band 40 Upper: 2350-2360MHz (TX/RX) LTE Band 41: 2496-2690MHz(TX/RX) LTE Band 42: 3450-3550MHz(TX/RX) LTE Band 66: 1710-1780MHz(TX); 2110-2200MHz(RX)			
Modulation Technique	2G: GMSK, 8PSK 3G: BPSK, QPSK, 16QAM, 64QAM 4G: QPSK, 16QAM, 64QAM			
Antenna Specification [#]	Antenna	Operation Bands	Antenna Gain (G _T) (dBi)	L _c (dB)
	ANT0	GSM 850/WCDMA/LTE B5	-6.9	0.5
		PCS1900/WCDMA/LTE B2	-1.0	0.8
		WCDMA/LTE B4	-3.0	0.8
		LTE B12/13/17	-6.0	0.5
		LTE B66	-2.1	0.8
	ANT1	LTE B7	-2.7	0.8
		LTE B38	-2.8	0.8
		LTE B40	-3.5	0.8
	ANT4	GSM 850/WCDMA/LTE B5	-6.1	0
		PCS1900/WCDMA/LTE B2	-2.2	0
		WCDMA/LTE B4	-4.2	0
		LTE B12	-8.0	0
		LTE B13	-7.8	0
		LTE B17	-8.1	0
LTE B41		0.7	0	
LTE B66	-4.2	0		
ANT5	LTE B42	2.4	0	
Note: L _c = Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.				
Voltage Range	DC 3.91V from battery or DC 5V/5-10V/11V/4-20V from Adapter			
Sample serial number	RE: 2GB9-4, RF: 2GB9-1 (Assigned by BAACL, Shenzhen)			
Sample/EUT Status	Good condition			

Normal/Extreme Condition #	L.V.: Low Voltage 3.45V _{DC} N.V.: Normal Voltage 3.91V _{DC} H.V.: High Voltage 4.50V _{DC}
Adapter Information	Model: U700TSA Input: AC 100-240V, 50/60Hz, 2.0A Output: DC 5.0V, 3.0A, 15.0W or DC 5.0-10.0V, 7.0A MAX or DC 11.0V, 6.4A MAX or DC4.0-20.0V, 3.5A, 70.0W MAX

Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part24-Subpart E, and Subpart 27 of the Federal Communication Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
Part 24 Subpart E - Personal Communication Services
Part 27 - Miscellaneous Wireless Communications Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in
Licensed Radio Services
KDB 971168 D01: Power Meas License Digital Systems v03r01

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		±5%
RF output power, conducted		0.72 dB(k=2, 95% level of confidence)
Unwanted Emission, conducted		1.75 dB(k=2, 95% level of confidence)
RF Frequency		213.55 Hz(k=2, 95% level of confidence)
Radiated Emissions	30MHz~200MHz (Horizontal)	4.48dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	4.55dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	4.85dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.05dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.35dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.44dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.16dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The final qualification test was performed with the EUT operating at normal mode.

Frequency Band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	Middle	High
GSM850	0.25	824.2	836.6	848.8
PCS1900	0.25	1850.2	1880	1909.8
WCDMA B2	4.2	1852.4	1880	1907.6
WCDMA B4	4.2	1712.4	1732.6	1752.6
WCDMA B5	4.2	826.4	836.6	846.6
LTE B2	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
	5	1852.5	1880	1907.5
	10	1855	1880	1905
	15	1857.5	1880	1902.5
	20	1860	1880	1900
LTE B4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715	1732.5	1750
	15	1717.5	1732.5	1747.5
	20	1720	1732.5	1745
LTE B5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829	836.5	844
LTE B7	5	2502.5	2535	2567.5
	10	2505	2535	2565
	15	2507.5	2535	2562.5
	20	2510	2535	2560
LTE B12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704.0	707.5	711.0
LTE B13	5	779.5	782	784.5
	10	/	782	/
LTE B17	5	706.5	710	713.5
	10	709	710	711
LTE B38	5	2572.5	2595	2617.5
	10	2575	2595	2615
	15	2577.5	2595	2612.5
	20	2580	2595	2610

Frequency Band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	Middle	High
LTE B40 Lower	5	2307.5	2310	2312.5
	10	/	2310	/
LTE B40 Upper	5	2352.5	2355	2357.5
	10	/	2355	/
LTE B41	5	2498.5	2593	2687.5
	10	2501	2593	2685
	15	2503.5	2593	2682.5
	20	2506	2593	2680
LTE B42	5	3452.5	3500	3547.5
	10	3455	3500	3545
	15	3457.5	3500	3542.5
	20	3460	3500	3540
LTE B66	1.4	1710.7	1745	1779.3
	3	1711.5	1745	1778.5
	5	1712.5	1745	1777.5
	10	1715	1745	1775
	15	1717.5	1745	1772.5
	20	1720	1745	1770

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

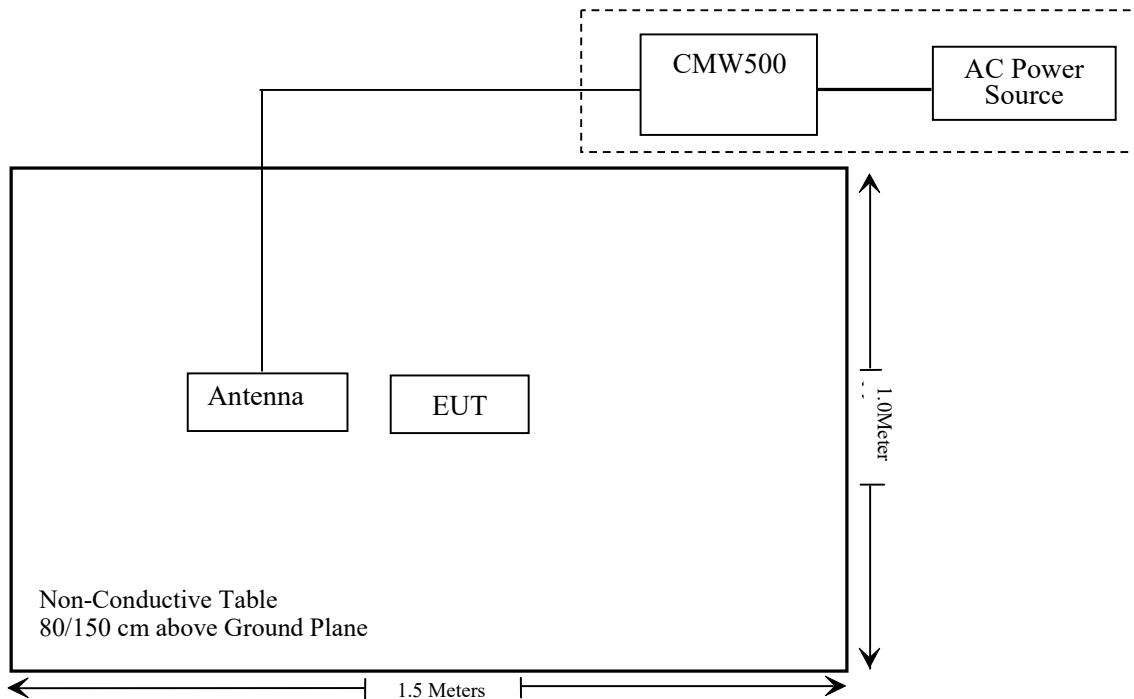
Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	141718

Support Cable Description

Cable Description	Length (m)	From / Port	To
Unshielded Un-detachable AC cable	1.2	AC Power	CMW500

Block Diagram of Test Setup

For radiated spurious emission



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 ,§2.1093	RF Exposure (SAR)	Compliant
§2.1046; § 22.913(a)(d); §24.232(c)(d); §27.50(a)(b)(c)(d)(h)(k)	RF Output Power	Compliant
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905; § 22.917; § 24.238; §27.53	Occupied Bandwidth	Compliant
§ 2.1051; §22.917(a); § 24.238 (a); §27.53;	Spurious Emissions at Antenna Terminal	Compliant
§ 2.1053; § 22.917(a); § 24.238(a); §27.53	Field Strength of Spurious Radiation	Compliant
§ 22.917 (a); § 24.238 (a); §27.53(a)(c)(g)(h)(m)(n)	Band Edge	Compliant
§ 2.1055; § 22.355; § 24.235; §27.54;	Frequency stability	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15
Sonoma instrument	Pre-amplifier	310 N	186238	2023/06/08	2024/06/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2024/07/19
Unknown	Cable	Chamber Cable 1	F-03-EM236	2023/08/03	2024/08/02
Unknown	Cable	Chamber Cable 4	EC-007	2023/08/03	2024/08/02
COM-POWER	Dipole Antenna	AD-100	721027	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2023/04/18	2024/04/17
COM-POWER	Pre-amplifier	PA-122	181919	2023/06/29	2024/06/28
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2024/07/25
A.H.System	Horn Antenna	SAS-200/571	135	2021/07/14	2024/07/13
Unknown	RF Cable	KMSE	0735	2023/10/08	2024/10/07
Unknown	RF Cable	UFA147	219661	2023/10/08	2024/10/07
MICRO-TRONICS	2.8G Passband filter	HPM50111	F-03-EM217	2023/08/03	2024/08/02
Unknown	1.3G High Pass filter	1.3GHz	101120	2023/08/03	2024/08/02
A.H.System	Pre-amplifier	PAM-1840VH	190	2023/08/03	2024/08/02
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
Electro-Mechanics Co	Horn Antenna	3116	2026	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2023/08/03	2024/08/02
Agilent	Signal Generator	N5183A	MY50140588	2023/12/18	2024/12/17

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
R&S	spectrum analyzer	FSV40	101942	2023/12/18	2024/12/17
R&S	SPECTRUM ANALYZER	FSU26	200120	2024/01/08	2025/01/07
BACL	Temperature & Humidity Chamber	BTH-150-40	30145	2024/01/16	2025/01/15
R&S	Wideband Radio Communication Tester	CMW500	141718	2023/09/06	2024/09/05
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2023/06/08	2024/06/07
WEINSCHEL	3dB Attenuator	Unknown	F-03-EM220	2023/07/04	2024/07/03
WEINSCHEL	Power Splitter	1515	RH397	2023/07/04	2024/07/03
Micro-Tronics	RF Cable	8082135	W1113	2023/07/04	2024/07/03

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: CR240101736-20.

FCC§2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H,24E&27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC § 2.1046, § 22.913 (a) (d) & § 24.232 (c) (d); §27.50 (a)(b)(c)(d)(h)(k) - RF OUTPUT POWER

Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §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.

According to §27.50 (a)(3) Mobile and portable stations.

(i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

(ii) Mobile and portable stations are not permitted to transmit in the 2315-2320 MHz and 2345-2350 MHz bands.

(iii) *Automatic transmit power control.* Mobile and portable stations transmitting in the 2305-2315 MHz band or in the 2350-2360 MHz band must employ automatic transmit power control when operating so the stations operate with the minimum power necessary for successful communications.

(iv) *Prohibition on external vehicle-mounted antennas.* The use of external vehicle-mounted antennas for mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band is prohibited.

According to §27.50(b), Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

According to §27.50(c), Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP. And Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to §27.50(d), Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

According to §27.50 (h) The following power limits shall apply in the BRS and EBS:

(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to §27.50 (k) The following power requirements apply to stations transmitting in the 3450 – 3550 MHz band:

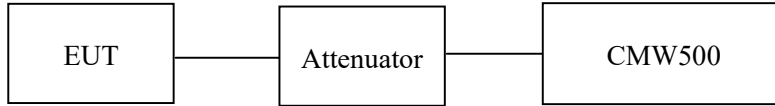
(3) Mobile devices are limited to 1 Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

Test Procedure

Conducted method: ANSI C63.26-2015 Section 5.2

The RF output of the transmitter was connected to the CMW500 through sufficient attenuation.



Test Data

Environmental Conditions

Temperature:	23.1-24.3 °C
Relative Humidity:	42-55 %
ATM Pressure:	101 kPa

The testing was performed by Cheeb Huang from 2024-02-07 to 2024-03-06.

Test Result: Compliant

Cellular Band (Part 22H)

GSM 850

ANT 0

Test Mode	Conducted Peak Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	33.00	32.91	32.68	23.45	38.45
GPRS 1 Slot	32.99	32.91	32.71	23.44	38.45
GPRS 2 Slots	32.17	32.11	31.90	22.62	38.45
GPRS 3 Slots	30.44	30.32	30.13	20.89	38.45
GPRS 4 Slots	29.23	29.18	29.08	19.68	38.45
EDGE 1 Slot	27.11	27.15	27.11	17.60	38.45
EDGE 2 Slots	26.01	26.01	26.03	16.48	38.45
EDGE 3 Slots	24.11	24.11	24.10	14.56	38.45
EDGE 4 Slots	22.87	23.02	23.00	13.47	38.45

Note:
 ERP= Conducted Power(dBm) - LC(dB) + GT(dBd)
 GT(dBd)=GT(dBi)-2.15

ANT 4

Test Mode	Conducted Peak Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	32.01	31.81	31.54	23.76	38.45
GPRS 1 Slot	32.03	31.83	31.54	23.78	38.45
GPRS 2 Slots	31.23	31.03	30.74	22.98	38.45
GPRS 3 Slots	29.42	29.25	29.02	21.17	38.45
GPRS 4 Slots	28.32	28.12	27.87	20.07	38.45
EDGE 1 Slot	25.87	26.00	26.04	17.79	38.45
EDGE 2 Slots	24.73	24.86	24.87	16.62	38.45
EDGE 3 Slots	22.86	22.96	23.00	14.75	38.45
EDGE 4 Slots	21.65	21.75	21.70	13.50	38.45

Note:
 ERP= Conducted Power(dBm) - LC(dB) + GT(dBd)
 GT(dBd)=GT(dBi)-2.15

WCAMA B5

ANT 0

Test Mode	Conducted Average Output Power (dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	24.02	23.97	23.86	14.47	38.45
HSDPA Subtest 1	22.16	22.63	22.55	13.08	38.45
HSDPA Subtest 2	22.10	22.06	22.44	12.89	38.45
HSDPA Subtest 3	21.88	23.12	22.57	13.57	38.45
HSDPA Subtest 4	22.72	23.14	22.61	13.59	38.45
HSUPA Subtest 1	21.97	22.05	21.10	12.50	38.45
HSUPA Subtest 2	21.47	21.74	20.99	12.19	38.45
HSUPA Subtest 3	21.44	21.28	21.22	11.89	38.45
HSUPA Subtest 4	21.26	22.67	21.08	13.12	38.45
HSUPA Subtest 5	21.62	22.66	21.05	13.11	38.45
HSPA+ Subtest 1	21.12	20.89	21.36	11.81	38.45

Note:
 ERP= Conducted Power(dBm) - LC(dB) + GT(dBd)
 GT(dBd)=GT(dBi)-2.15

ANT 4

Test Mode	Conducted Average Output Power (dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	22.55	22.50	22.39	14.30	38.45
HSDPA Subtest 1	20.51	20.68	20.50	12.43	38.45
HSDPA Subtest 2	20.76	20.84	20.59	12.59	38.45
HSDPA Subtest 3	20.38	20.70	20.52	12.45	38.45
HSDPA Subtest 4	20.58	20.76	20.51	12.51	38.45
HSUPA Subtest 1	20.57	20.17	20.64	12.39	38.45
HSUPA Subtest 2	20.83	19.93	20.45	12.58	38.45
HSUPA Subtest 3	20.64	20.06	20.90	12.65	38.45
HSUPA Subtest 4	20.84	20.15	20.74	12.59	38.45
HSUPA Subtest 5	20.46	19.90	20.63	12.38	38.45
HSPA+ Subtest 1	20.43	20.03	20.46	12.21	38.45

Note:
 ERP= Conducted Power(dBm) - LC(dB) + GT(dBd)
 GT(dBd)=GT(dBi)-2.15

PCS Band (Part 24E)

PCS 1900

ANT 0

Test Mode	Conducted Peak Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	28.91	28.88	28.92	27.12	33
GPRS 1 Slot	28.93	28.88	28.93	27.13	33
GPRS 2 Slots	28.19	28.15	28.18	26.39	33
GPRS 3 Slots	26.49	26.46	26.49	24.69	33
GPRS 4 Slots	25.39	25.36	25.39	23.59	33
EDGE 1 Slot	25.89	25.71	25.31	24.09	33
EDGE 2 Slots	24.99	24.82	24.37	23.19	33
EDGE 3 Slots	23.04	22.81	22.39	21.24	33
EDGE 4 Slots	21.89	21.61	21.25	20.09	33

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

ANT 4

Test Mode	Conducted Peak Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	26.94	27.50	27.61	25.41	33
GPRS 1 Slot	26.95	27.50	27.60	25.40	33
GPRS 2 Slots	26.15	26.69	26.80	24.60	33
GPRS 3 Slots	24.38	24.96	25.09	22.89	33
GPRS 4 Slots	23.21	23.79	23.93	21.73	33
EDGE 1 Slot	22.28	22.42	22.81	20.61	33
EDGE 2 Slots	21.20	21.42	21.75	19.55	33
EDGE 3 Slots	19.28	19.49	19.97	17.77	33
EDGE 4 Slots	17.92	18.45	18.76	16.56	33

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

WCDMA B2

ANT 0

Test Mode	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	17.59	17.56	17.44	15.79	33
HSDPA Subtest 1	16.11	16.15	15.96	14.35	33
HSDPA Subtest 2	15.84	16.26	16.01	14.46	33
HSDPA Subtest 3	16.31	15.73	16.06	14.51	33
HSDPA Subtest 4	16.24	16.16	15.82	14.44	33
HSUPA Subtest 1	15.87	15.98	15.41	14.18	33
HSUPA Subtest 2	16.26	16.41	15.53	14.61	33
HSUPA Subtest 3	15.52	15.63	15.92	14.12	33
HSUPA Subtest 4	16.05	16.05	15.34	14.25	33
HSUPA Subtest 5	15.65	15.86	15.42	14.06	33
HSPA+ Subtest 1	15.52	15.70	16.30	14.50	33

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

ANT 4

Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	16.57	16.71	17.01	14.81	33
HSDPA Subtest 1	14.76	15.45	15.40	13.25	33
HSDPA Subtest 2	14.72	15.17	15.36	13.16	33
HSDPA Subtest 3	14.55	15.39	15.53	13.33	33
HSDPA Subtest 4	15.04	15.65	15.12	13.45	33
HSUPA Subtest 1	14.67	15.05	15.41	13.21	33
HSUPA Subtest 2	14.80	15.32	15.35	13.15	33
HSUPA Subtest 3	14.68	15.16	15.15	12.96	33
HSUPA Subtest 4	14.94	15.01	15.31	13.11	33
HSUPA Subtest 5	14.63	15.01	15.33	13.13	33
HSPA+ Subtest 1	14.50	15.12	15.65	13.45	33

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

AWS Band
WCDMA B4

ANT 0

Test Mode	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	17.54	17.50	17.39	13.74	30
HSDPA Subtest 1	16.10	16.00	15.61	12.30	30
HSDPA Subtest 2	16.31	15.95	15.06	12.51	30
HSDPA Subtest 3	15.79	15.52	15.74	11.99	30
HSDPA Subtest 4	15.77	16.03	15.74	12.23	30
HSUPA Subtest 1	15.60	15.62	15.67	11.87	30
HSUPA Subtest 2	16.15	15.59	15.83	12.35	30
HSUPA Subtest 3	15.61	15.87	15.61	12.07	30
HSUPA Subtest 4	15.83	15.66	16.02	12.22	30
HSUPA Subtest 5	15.60	15.41	15.51	11.80	30
HSPA+ Subtest 1	15.26	15.36	15.79	11.99	30

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

ANT 4

Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	15.60	15.41	14.98	11.40	30
HSDPA Subtest 1	14.43	13.84	13.58	10.23	30
HSDPA Subtest 2	14.18	13.80	13.88	9.98	30
HSDPA Subtest 3	14.57	13.83	13.71	10.37	30
HSDPA Subtest 4	14.64	13.74	13.59	10.44	30
HSUPA Subtest 1	13.71	13.39	13.23	9.51	30
HSUPA Subtest 2	13.58	13.52	13.28	9.38	30
HSUPA Subtest 3	13.63	13.47	13.35	9.43	30
HSUPA Subtest 4	13.53	13.66	13.24	9.46	30
HSUPA Subtest 5	13.46	13.54	13.46	9.34	30
HSPA+ Subtest 1	13.67	13.13	13.24	9.47	30

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

LTE Band

Band 2

ANT 0

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	18.05	17.85	17.66	16.29	33
	RB1#3	18.07	17.84	17.66		
	RB1#5	18.04	17.87	17.66		
	RB3#0	18.09	17.85	17.65		
	RB3#3	18.07	17.86	17.65		
	RB6#0	17.23	16.96	16.78		
1.4MHz 16QAM	RB1#0	17.36	16.96	16.77	15.56	33
	RB1#3	17.31	17.01	16.77		
	RB1#5	17.29	17.04	16.75		
	RB3#0	17.20	17.05	16.96		
	RB3#3	17.20	17.02	17.00		
	RB6#0	16.21	15.86	15.80		
1.4MHz 64QAM	RB1#0	16.82	17.11	17.02	15.31	33
	RB1#3	16.97	16.91	16.84		
	RB1#5	17.02	16.91	16.72		
	RB3#0	16.99	16.75	16.92		
	RB3#3	16.91	16.94	16.33		
	RB6#0	15.88	15.80	15.96		
3MHz QPSK	RB1#0	18.08	17.83	17.67	16.29	33
	RB1#8	18.09	17.83	17.62		
	RB1#14	18.05	17.85	17.59		
	RB6#0	17.30	17.02	16.87		
	RB6#9	17.27	17.03	16.85		
	RB15#0	17.26	17.01	16.82		
3MHz 16QAM	RB1#0	17.41	17.05	17.40	15.61	33
	RB1#8	17.38	17.03	17.37		
	RB1#14	17.36	16.99	17.36		
	RB6#0	16.28	15.97	15.92		
	RB6#9	16.26	15.93	15.86		
	RB15#0	16.24	16.05	15.88		
3MHz 64QAM	RB1#0	17.14	17.01	17.07	15.38	33
	RB1#8	16.91	16.94	17.18		
	RB1#14	16.37	16.85	17.01		
	RB6#0	15.89	15.79	15.99		
	RB6#9	16.05	16.14	15.92		
	RB15#0	15.85	15.77	15.91		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	18.17	18.00	17.74	16.39	33
	RB1#13	18.19	17.94	17.72		
	RB1#24	18.09	17.93	17.72		
	RB15#0	17.33	17.05	17.00		
	RB15#10	17.28	17.01	16.80		
	RB25#0	17.24	17.04	16.88		
5MHz 16QAM	RB1#0	17.17	17.32	16.98	15.52	33
	RB1#13	17.17	17.31	16.95		
	RB1#24	17.12	17.30	16.90		
	RB15#0	16.36	16.05	15.97		
	RB15#10	16.29	15.98	15.81		
	RB25#0	16.30	16.05	15.91		
5MHz 64QAM	RB1#0	17.02	16.99	17.08	15.28	33
	RB1#13	16.56	16.67	17.03		
	RB1#24	16.55	16.95	16.76		
	RB15#0	16.79	16.88	16.87		
	RB15#10	16.08	16.61	16.08		
	RB25#0	15.85	15.84	15.90		
10MHz QPSK	RB1#0	18.12	17.89	17.78	16.32	33
	RB1#25	18.09	17.90	17.77		
	RB1#49	17.96	17.82	17.71		
	RB25#0	17.24	17.13	16.92		
	RB25#25	17.21	16.99	16.82		
	RB50#0	17.25	17.08	16.87		
10MHz 16QAM	RB1#0	17.24	17.60	17.02	15.82	33
	RB1#25	17.21	17.62	17.01		
	RB1#49	17.07	17.53	16.95		
	RB25#0	16.36	16.13	15.97		
	RB25#25	16.32	15.99	15.82		
	RB50#0	16.24	16.03	15.91		
10MHz 64QAM	RB1#0	17.07	17.04	17.12	15.35	33
	RB1#25	16.49	16.88	16.81		
	RB1#49	17.13	16.94	17.07		
	RB25#0	17.15	16.75	16.81		
	RB25#25	16.06	16.21	16.11		
	RB50#0	15.86	15.78	16.04		
15MHz QPSK	RB1#0	18.02	17.81	17.74	16.22	33
	RB1#38	18.02	17.82	17.77		
	RB1#74	17.84	17.75	17.64		
	RB36#0	17.26	17.06	16.83		
	RB36#39	17.15	16.97	16.75		
	RB75#0	17.23	17.03	16.86		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
15MHz 16QAM	RB1#0	17.66	17.60	17.07	15.86	33
	RB1#38	17.58	17.61	17.00		
	RB1#74	17.40	17.52	16.90		
	RB36#0	16.26	16.09	15.94		
	RB36#39	16.07	15.96	15.83		
	RB75#0	16.17	16.07	15.85		
15MHz 64QAM	RB1#0	16.70	16.85	17.25	15.45	33
	RB1#38	16.52	16.75	17.18		
	RB1#74	16.52	16.55	16.90		
	RB36#0	16.63	16.44	17.18		
	RB36#39	16.05	16.21	16.35		
	RB75#0	15.79	15.69	15.80		
20MHz QPSK	RB1#0	18.02	17.85	17.80	16.22	33
	RB1#50	17.95	17.94	17.84		
	RB1#99	17.74	17.71	17.61		
	RB50#0	17.21	17.14	16.90		
	RB50#50	17.12	16.97	16.74		
	RB100#0	17.17	17.03	16.81		
20MHz 16QAM	RB1#0	17.72	17.30	17.13	15.92	33
	RB1#50	17.64	17.36	17.11		
	RB1#99	17.45	17.17	16.91		
	RB50#0	16.14	16.10	15.87		
	RB50#50	16.09	15.91	15.75		
	RB100#0	16.15	16.02	15.79		
20MHz 64QAM	RB1#0	17.04	16.79	16.59	15.24	33
	RB1#50	16.91	16.63	16.68		
	RB1#99	16.56	16.45	16.47		
	RB50#0	16.91	16.44	16.10		
	RB50#50	16.58	16.33	15.74		
	RB100#0	15.87	15.69	15.80		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

ANT 4

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	16.83	17.19	17.28	15.08	33
	RB1#3	16.86	17.24	17.23		
	RB1#5	16.84	17.20	17.26		
	RB3#0	16.90	17.21	17.28		
	RB3#3	16.92	17.17	17.26		
	RB6#0	16.01	16.29	16.39		
1.4MHz 16QAM	RB1#0	16.05	16.29	16.57	14.37	33
	RB1#3	16.05	16.31	16.53		
	RB1#5	16.03	16.31	16.51		
	RB3#0	16.09	16.47	16.39		
	RB3#3	16.09	16.51	16.39		
	RB6#0	14.94	15.33	15.43		
1.4MHz 64QAM	RB1#0	15.26	15.83	15.47	13.63	33
	RB1#3	15.14	15.61	15.50		
	RB1#5	15.23	15.63	15.49		
	RB3#0	15.08	15.60	15.56		
	RB3#3	15.11	15.49	15.51		
	RB6#0	14.90	14.79	15.17		
3MHz QPSK	RB1#0	16.88	17.13	17.19	14.99	33
	RB1#8	16.84	17.16	17.12		
	RB1#14	16.92	17.18	17.13		
	RB6#0	16.01	16.30	16.38		
	RB6#9	16.02	16.30	16.30		
	RB15#0	16.06	16.27	16.33		
3MHz 16QAM	RB1#0	16.13	16.29	16.45	14.27	33
	RB1#8	16.12	16.33	16.47		
	RB1#14	16.12	16.33	16.44		
	RB6#0	15.04	15.27	15.39		
	RB6#9	15.12	15.26	15.40		
	RB15#0	15.04	15.34	14.98		
3MHz 64QAM	RB1#0	14.97	15.31	15.64	13.66	33
	RB1#8	15.41	15.42	15.75		
	RB1#14	15.12	15.48	15.86		
	RB6#0	14.98	15.48	15.46		
	RB6#9	15.10	15.29	15.56		
	RB15#0	14.36	15.07	14.68		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	16.87	17.28	16.78	15.08	33
	RB1#13	16.32	16.86	16.80		
	RB1#24	16.73	16.77	17.20		
	RB15#0	16.63	16.91	16.89		
	RB15#10	16.45	16.82	16.77		
	RB25#0	15.86	16.42	16.46		
5MHz 16QAM	RB1#0	16.03	16.94	16.49	14.74	33
	RB1#13	16.40	16.59	16.64		
	RB1#24	16.49	16.89	16.50		
	RB15#0	16.20	16.74	16.70		
	RB15#10	16.32	16.50	16.45		
	RB25#0	15.46	16.07	15.79		
5MHz 64QAM	RB1#0	15.88	16.73	16.67	14.53	33
	RB1#13	15.68	16.35	16.08		
	RB1#24	16.19	16.65	16.47		
	RB15#0	16.00	16.28	16.32		
	RB15#10	15.83	16.24	16.28		
	RB25#0	15.18	15.46	16.11		
10MHz QPSK	RB1#0	16.42	16.74	16.90	14.77	33
	RB1#25	16.76	16.97	16.76		
	RB1#49	16.78	16.80	16.83		
	RB25#0	16.47	16.84	16.93		
	RB25#25	16.68	16.63	16.73		
	RB50#0	16.08	16.34	16.09		
10MHz 16QAM	RB1#0	16.27	16.65	16.88	14.71	33
	RB1#25	16.56	16.47	16.91		
	RB1#49	16.10	16.74	16.46		
	RB25#0	16.28	16.54	16.49		
	RB25#25	16.31	16.71	16.56		
	RB50#0	15.61	16.23	16.18		
10MHz 64QAM	RB1#0	15.98	16.47	16.44	14.54	33
	RB1#25	15.77	16.32	16.74		
	RB1#49	16.04	16.49	16.27		
	RB25#0	16.13	16.32	16.53		
	RB25#25	15.86	16.38	16.20		
	RB50#0	15.71	16.14	15.91		
15MHz QPSK	RB1#0	16.39	16.76	16.82	15.08	33
	RB1#38	16.54	16.78	16.68		
	RB1#74	16.80	17.28	16.80		
	RB36#0	16.45	16.74	16.82		
	RB36#39	16.55	16.84	16.63		
	RB75#0	16.15	16.36	16.54		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
15MHz 16QAM	RB1#0	16.17	16.72	16.83	14.7	33
	RB1#38	16.03	16.68	16.90		
	RB1#74	16.39	16.57	16.31		
	RB36#0	16.23	16.43	16.47		
	RB36#39	16.31	16.57	16.51		
	RB75#0	15.33	15.70	15.79		
15MHz 64QAM	RB1#0	16.29	16.19	16.30	14.5	33
	RB1#38	16.17	16.70	16.39		
	RB1#74	16.00	16.64	16.37		
	RB36#0	15.80	16.34	16.27		
	RB36#39	15.76	16.17	16.26		
	RB75#0	15.69	15.70	15.62		
20MHz QPSK	RB1#0	16.89	17.07	17.11	14.91	33
	RB1#50	16.76	16.78	16.68		
	RB1#99	16.87	16.93	16.87		
	RB50#0	16.40	16.71	16.68		
	RB50#50	16.44	16.66	16.89		
	RB100#0	15.81	16.54	15.95		
20MHz 16QAM	RB1#0	16.24	16.84	16.72	14.92	33
	RB1#50	16.11	17.12	16.80		
	RB1#99	16.06	16.63	16.58		
	RB50#0	16.15	16.74	16.47		
	RB50#50	16.29	16.47	16.47		
	RB100#0	15.99	15.82	15.60		
20MHz 64QAM	RB1#0	15.99	16.43	16.44	14.32	33
	RB1#50	16.17	16.51	16.43		
	RB1#99	16.22	16.04	16.52		
	RB50#0	15.98	16.24	16.09		
	RB50#50	15.93	16.15	16.30		
	RB100#0	15.54	15.76	16.11		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

Band 4 ANT0:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	17.54	17.18	17.03	13.74	30
	RB1#3	17.39	17.07	16.80		
	RB1#5	17.40	16.84	16.92		
	RB3#0	17.15	17.20	17.06		
	RB3#3	17.04	17.08	17.00		
	RB6#0	16.61	16.59	16.68		
1.4MHz 16QAM	RB1#0	16.36	16.32	16.83	13.06	30
	RB1#3	16.30	16.29	16.53		
	RB1#5	16.78	16.34	16.86		
	RB3#0	16.50	16.26	16.55		
	RB3#3	16.41	16.29	16.51		
	RB6#0	16.16	15.58	16.34		
1.4MHz 64QAM	RB1#0	16.21	16.17	16.55	12.75	30
	RB1#3	16.36	16.03	16.42		
	RB1#5	16.13	16.27	16.31		
	RB3#0	16.05	16.10	16.24		
	RB3#3	16.24	15.90	16.32		
	RB6#0	15.98	15.23	15.55		
3MHz QPSK	RB1#0	17.03	17.04	17.00	13.58	30
	RB1#8	17.25	16.77	17.38		
	RB1#14	16.62	17.10	17.28		
	RB6#0	16.86	16.53	16.86		
	RB6#9	16.74	16.69	16.94		
	RB15#0	15.84	16.17	16.68		
3MHz 16QAM	RB1#0	16.60	16.29	16.52	13.06	30
	RB1#8	16.33	16.38	16.52		
	RB1#14	16.86	16.22	16.64		
	RB6#0	16.32	16.16	16.61		
	RB6#9	16.43	16.33	16.49		
	RB15#0	15.94	16.00	16.29		
3MHz 64QAM	RB1#0	16.61	16.42	16.12	12.81	30
	RB1#8	16.21	16.35	16.15		
	RB1#14	16.23	16.00	16.45		
	RB6#0	16.03	16.20	16.41		
	RB6#9	16.00	15.90	16.39		
	RB15#0	15.59	15.90	15.47		
5MHz QPSK	RB1#0	16.75	16.75	17.20	13.43	30
	RB1#13	17.00	16.61	16.95		
	RB1#24	16.74	17.02	17.23		
	RB15#0	16.80	16.55	16.81		
	RB15#10	16.65	16.67	16.97		
	RB25#0	16.44	16.04	16.53		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz 16QAM	RB1#0	16.52	16.26	16.81	13.01	30
	RB1#13	16.43	16.36	16.52		
	RB1#24	16.38	16.78	16.71		
	RB15#0	16.47	16.19	16.44		
	RB15#10	16.31	16.26	16.64		
	RB25#0	15.97	15.66	16.19		
5MHz 64QAM	RB1#0	16.21	16.50	16.52	12.72	30
	RB1#13	16.02	16.00	16.44		
	RB1#24	16.07	16.45	16.41		
	RB15#0	16.03	16.03	16.23		
	RB15#10	16.05	16.05	16.24		
	RB25#0	15.20	15.29	16.08		
10MHz QPSK	RB1#0	16.91	16.87	16.69	13.49	30
	RB1#25	16.89	16.89	17.29		
	RB1#49	17.14	16.89	16.74		
	RB25#0	16.73	16.63	16.83		
	RB25#25	16.75	16.78	16.94		
	RB50#0	16.13	16.46	16.19		
10MHz 16QAM	RB1#0	16.73	16.16	16.43	13.01	30
	RB1#25	16.81	16.78	16.37		
	RB1#49	16.40	16.42	16.56		
	RB25#0	16.58	16.40	16.41		
	RB25#25	16.41	16.47	16.52		
	RB50#0	15.61	15.89	16.25		
10MHz 64QAM	RB1#0	16.50	16.32	16.67	12.87	30
	RB1#25	16.37	15.87	16.28		
	RB1#49	16.10	16.01	16.06		
	RB25#0	16.19	16.14	16.31		
	RB25#25	16.14	16.02	16.33		
	RB50#0	15.97	15.21	16.00		
15MHz QPSK	RB1#0	16.75	17.04	17.22	13.42	30
	RB1#38	17.12	16.79	16.78		
	RB1#74	17.16	16.75	16.74		
	RB36#0	16.95	16.75	16.87		
	RB36#39	16.69	16.73	16.86		
	RB75#0	16.44	15.93	16.07		
15MHz 16QAM	RB1#0	16.78	16.46	16.78	13.08	30
	RB1#38	16.88	16.38	16.74		
	RB1#74	16.67	16.61	16.45		
	RB36#0	16.35	16.25	16.54		
	RB36#39	16.32	16.30	16.41		
	RB75#0	16.22	16.01	16.14		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
15MHz 64QAM	RB1#0	16.05	16.26	16.57	12.77	30
	RB1#38	16.47	16.45	16.49		
	RB1#74	16.48	15.92	16.13		
	RB36#0	16.14	15.86	16.32		
	RB36#39	16.08	15.94	16.16		
	RB75#0	15.21	15.28	15.58		
20MHz QPSK	RB1#0	16.98	17.00	17.01	13.31	30
	RB1#50	16.88	16.53	17.11		
	RB1#99	16.72	16.69	16.92		
	RB50#0	16.63	16.68	16.86		
	RB50#50	16.86	16.69	16.96		
	RB100#0	16.32	16.06	15.93		
20MHz 16QAM	RB1#0	16.58	16.67	16.56	13.06	30
	RB1#50	16.54	16.74	16.86		
	RB1#99	16.82	16.14	16.56		
	RB50#0	16.48	16.38	16.45		
	RB50#50	16.36	16.33	16.44		
	RB100#0	15.86	15.61	15.76		
20MHz 64QAM	RB1#0	16.06	16.37	16.32	12.84	30
	RB1#50	16.64	16.32	16.25		
	RB1#99	16.34	16.33	16.01		
	RB50#0	16.34	16.11	16.43		
	RB50#50	16.26	15.92	16.38		
	RB100#0	15.88	15.51	15.41		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

ANT 4

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	13.82	13.81	13.64	9.68	30
	RB1#3	13.87	13.77	13.68		
	RB1#5	13.85	13.80	13.62		
	RB3#0	13.85	13.80	13.66		
	RB3#3	13.88	13.74	13.66		
	RB6#0	12.88	12.76	12.67		
1.4MHz 16QAM	RB1#0	12.88	12.78	12.76	8.76	30
	RB1#3	12.88	12.72	12.78		
	RB1#5	12.87	12.79	12.77		
	RB3#0	12.96	12.93	12.67		
	RB3#3	12.95	12.93	12.66		
	RB6#0	11.79	11.80	11.68		
1.4MHz 64QAM	RB1#0	13.20	13.20	12.79	9.15	30
	RB1#3	13.35	12.84	13.12		
	RB1#5	12.84	12.71	13.01		
	RB3#0	12.90	12.91	12.79		
	RB3#3	13.02	12.83	12.63		
	RB6#0	12.10	12.62	12.14		
3MHz QPSK	RB1#0	13.88	13.82	13.62	9.73	30
	RB1#8	13.93	13.78	13.61		
	RB1#14	13.92	13.81	13.54		
	RB6#0	12.86	12.79	12.67		
	RB6#9	12.90	12.78	12.69		
	RB15#0	12.88	12.75	12.69		
3MHz 16QAM	RB1#0	13.05	12.81	13.23	9.03	30
	RB1#8	13.05	12.77	13.22		
	RB1#14	13.04	12.75	13.18		
	RB6#0	11.89	11.75	11.73		
	RB6#9	11.92	11.69	11.72		
	RB15#0	11.84	11.82	11.74		
3MHz 64QAM	RB1#0	13.09	13.09	12.86	9.16	30
	RB1#8	13.33	13.36	12.48		
	RB1#14	13.26	13.06	12.88		
	RB6#0	12.81	12.79	12.69		
	RB6#9	12.79	12.82	12.71		
	RB15#0	12.30	12.03	12.48		
5MHz QPSK	RB1#0	13.90	13.87	13.70	9.73	30
	RB1#13	13.93	13.84	13.69		
	RB1#24	13.84	13.82	13.70		
	RB15#0	12.88	12.79	12.74		
	RB15#10	12.90	12.80	12.65		
	RB25#0	12.88	12.79	12.69		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz 16QAM	RB1#0	12.99	12.74	12.99	8.81	30
	RB1#13	13.01	12.72	12.97		
	RB1#24	12.94	12.69	12.95		
	RB15#0	11.88	11.83	11.68		
	RB15#10	11.91	11.81	11.60		
	RB25#0	11.91	11.88	11.66		
5MHz 64QAM	RB1#0	12.83	12.91	12.58	8.99	30
	RB1#13	12.83	13.02	12.82		
	RB1#24	13.19	12.66	12.73		
	RB15#0	13.07	12.85	12.81		
	RB15#10	12.89	12.97	12.77		
	RB25#0	12.33	12.06	12.32		
10MHz QPSK	RB1#0	13.90	13.79	13.66	9.70	30
	RB1#25	13.89	13.77	13.64		
	RB1#49	13.84	13.67	13.61		
	RB25#0	12.82	12.81	12.72		
	RB25#25	12.80	12.81	12.63		
	RB50#0	12.83	12.84	12.64		
10MHz 16QAM	RB1#0	12.88	13.43	12.78	9.23	30
	RB1#25	12.86	13.38	12.77		
	RB1#49	12.82	13.29	12.71		
	RB25#0	11.91	11.88	11.71		
	RB25#25	11.92	11.88	11.64		
	RB50#0	11.81	11.80	11.66		
10MHz 64QAM	RB1#0	13.13	13.26	13.11	9.12	30
	RB1#25	12.76	12.73	13.03		
	RB1#49	13.32	13.21	13.05		
	RB25#0	13.07	12.92	12.77		
	RB25#25	12.77	12.95	12.69		
	RB50#0	12.09	12.54	11.90		
15MHz QPSK	RB1#0	13.85	13.78	13.76	9.65	30
	RB1#38	13.83	13.75	13.66		
	RB1#74	13.76	13.63	13.58		
	RB36#0	12.81	12.85	12.71		
	RB36#39	12.81	12.82	12.65		
	RB75#0	12.80	12.86	12.71		
15MHz 16QAM	RB1#0	13.29	13.43	12.90	9.23	30
	RB1#38	13.29	13.40	12.82		
	RB1#74	13.20	13.25	12.75		
	RB36#0	11.85	11.87	11.77		
	RB36#39	11.78	11.79	11.62		
	RB75#0	11.76	11.86	11.73		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
15MHz 64QAM	RB1#0	13.21	13.32	12.69	9.12	30
	RB1#38	13.13	13.06	12.56		
	RB1#74	13.11	12.82	12.63		
	RB36#0	12.84	12.83	12.62		
	RB36#39	12.98	12.88	12.77		
	RB75#0	12.68	12.17	12.05		
20MHz QPSK	RB1#0	13.96	13.83	13.80	9.76	30
	RB1#50	13.92	13.87	13.80		
	RB1#99	13.78	13.63	13.58		
	RB50#0	12.85	12.93	12.79		
	RB50#50	12.77	12.80	12.63		
	RB100#0	12.81	12.86	12.70		
20MHz 16QAM	RB1#0	13.12	13.39	13.10	9.19	30
	RB1#50	13.12	13.36	13.10		
	RB1#99	12.96	13.20	12.86		
	RB50#0	11.80	11.91	11.75		
	RB50#50	11.79	11.83	11.59		
	RB100#0	11.82	11.90	11.63		
20MHz 64QAM	RB1#0	13.26	13.10	12.81	9.06	30
	RB1#50	12.97	13.03	12.97		
	RB1#99	13.14	12.65	12.75		
	RB50#0	12.69	12.81	12.71		
	RB50#50	12.80	12.73	12.83		
	RB100#0	12.54	12.12	12.42		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

Band 5 ANT0:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power (dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	23.25	23.14	22.95	13.84	38.45
	RB1#3	23.25	23.16	22.92		
	RB1#5	23.27	23.14	22.88		
	RB3#0	23.35	23.28	23.05		
	RB3#3	23.39	23.24	22.98		
	RB6#0	22.33	22.26	22.11		
1.4MHz 16QAM	RB1#0	22.34	22.33	22.18	12.88	38.45
	RB1#3	22.37	22.36	22.22		
	RB1#5	22.33	22.33	22.17		
	RB3#0	22.39	22.41	22.04		
	RB3#3	22.38	22.43	21.99		
	RB6#0	21.28	21.25	21.14		
1.4MHz 64QAM	RB1#0	21.71	21.81	21.52	12.31	38.45
	RB1#3	21.84	21.70	21.52		
	RB1#5	21.66	21.86	21.61		
	RB3#0	21.70	21.66	21.53		
	RB3#3	21.69	21.62	21.59		
	RB6#0	20.51	20.45	20.46		
3MHz QPSK	RB1#0	23.26	23.21	23.13	13.73	38.45
	RB1#8	23.28	23.18	23.06		
	RB1#14	23.23	23.19	23.13		
	RB6#0	22.38	22.31	22.11		
	RB6#9	22.32	22.27	22.09		
	RB15#0	22.36	22.29	22.07		
3MHz 16QAM	RB1#0	22.48	22.34	22.58	13.03	38.45
	RB1#8	22.47	22.28	22.53		
	RB1#14	22.43	22.27	22.49		
	RB6#0	21.39	21.23	21.17		
	RB6#9	21.39	21.19	21.13		
	RB15#0	21.33	21.35	21.19		
3MHz 64QAM	RB1#0	21.94	21.79	21.71	12.39	38.45
	RB1#8	21.51	21.57	21.30		
	RB1#14	21.90	21.63	21.49		
	RB6#0	21.65	21.66	21.47		
	RB6#9	21.17	21.11	20.98		
	RB15#0	20.72	20.46	20.57		
5MHz QPSK	RB1#0	23.31	23.33	23.34	13.81	38.45
	RB1#13	23.33	23.36	23.33		
	RB1#24	23.28	23.33	23.26		
	RB15#0	22.36	22.32	22.20		
	RB15#10	22.33	22.27	22.05		
	RB25#0	22.32	22.25	22.09		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz 16QAM	RB1#0	22.64	22.36	22.08	13.09	38.45
	RB1#13	22.61	22.30	21.96		
	RB1#24	22.56	22.29	21.99		
	RB15#0	21.35	21.31	21.23		
	RB15#10	21.30	21.26	21.11		
	RB25#0	21.34	21.29	21.17		
5MHz 64QAM	RB1#0	21.94	21.71	21.89	12.45	38.45
	RB1#13	21.60	21.57	22.00		
	RB1#24	21.47	21.87	21.54		
	RB15#0	21.79	21.59	21.72		
	RB15#10	21.40	20.86	21.09		
	RB25#0	20.71	20.53	20.46		
10MHz QPSK	RB1#0	23.32	23.35	23.21	13.80	38.45
	RB1#25	23.31	23.34	23.10		
	RB1#49	23.21	23.22	22.99		
	RB25#0	22.38	22.31	22.18		
	RB25#25	22.31	22.26	22.07		
	RB50#0	22.38	22.32	22.15		
10MHz 16QAM	RB1#0	22.33	22.75	22.38	13.20	38.45
	RB1#25	22.33	22.75	22.27		
	RB1#49	22.26	22.64	22.20		
	RB25#0	21.48	21.34	21.25		
	RB25#25	21.37	21.31	21.07		
	RB50#0	21.35	21.31	21.13		
10MHz 64QAM	RB1#0	21.93	21.73	21.52	12.38	38.45
	RB1#25	21.53	21.41	21.45		
	RB1#49	21.75	21.20	21.21		
	RB25#0	21.81	21.63	21.06		
	RB25#25	20.90	20.88	20.79		
	RB50#0	20.68	20.59	20.47		

Note:
 ERP= Conducted Power(dBm) - LC(dB) + GT(dBd)
 GT(dBd)=GT(dBi)-2.15

ANT 4

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	22.02	21.96	21.67	13.90	38.45
	RB1#3	22.03	21.97	21.69		
	RB1#5	22.03	21.95	21.67		
	RB3#0	22.12	22.07	21.84		
	RB3#3	22.15	22.04	21.80		
	RB6#0	21.08	21.06	20.85		
1.4MHz 16QAM	RB1#0	21.10	21.10	20.95	12.94	38.45
	RB1#3	21.14	21.13	20.97		
	RB1#5	21.13	21.09	20.95		
	RB3#0	21.12	21.18	20.78		
	RB3#3	21.13	21.19	20.73		
	RB6#0	20.05	20.02	19.89		
1.4MHz 64QAM	RB1#0	20.51	20.27	20.19	12.26	38.45
	RB1#3	20.48	20.02	20.26		
	RB1#5	20.05	20.10	20.21		
	RB3#0	20.28	20.23	19.94		
	RB3#3	20.20	20.15	19.85		
	RB6#0	19.58	19.27	19.36		
3MHz QPSK	RB1#0	22.11	22.20	21.84	13.95	38.45
	RB1#8	22.10	22.11	21.80		
	RB1#14	22.08	22.11	21.78		
	RB6#0	21.20	21.14	20.98		
	RB6#9	21.15	21.12	20.91		
	RB15#0	21.16	21.12	20.94		
3MHz 16QAM	RB1#0	21.19	21.62	21.10	13.37	38.45
	RB1#8	21.14	21.56	20.94		
	RB1#14	21.14	21.55	21.00		
	RB6#0	20.12	20.20	19.96		
	RB6#9	20.12	20.17	19.95		
	RB15#0	20.21	20.19	19.92		
3MHz 64QAM	RB1#0	19.95	20.54	19.95	12.29	38.45
	RB1#8	20.10	20.23	19.90		
	RB1#14	20.46	20.54	19.96		
	RB6#0	19.95	20.11	19.78		
	RB6#9	20.20	20.25	20.00		
	RB15#0	19.84	19.86	19.23		
5MHz QPSK	RB1#0	22.18	22.34	21.99	14.09	38.45
	RB1#13	22.20	22.30	21.88		
	RB1#24	22.16	22.26	21.85		
	RB15#0	21.24	21.12	21.03		
	RB15#10	21.16	21.11	20.94		
	RB25#0	21.17	21.08	20.96		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz 16QAM	RB1#0	21.24	21.03	21.27	13.02	38.45
	RB1#13	21.19	20.99	21.18		
	RB1#24	21.13	21.00	21.13		
	RB15#0	20.23	20.19	20.07		
	RB15#10	20.16	20.15	19.96		
	RB25#0	20.21	20.17	20.01		
5MHz 64QAM	RB1#0	20.63	20.16	20.41	12.38	38.45
	RB1#13	20.12	20.45	20.31		
	RB1#24	20.38	20.24	20.22		
	RB15#0	20.28	20.17	19.97		
	RB15#10	20.01	20.03	20.06		
	RB25#0	19.27	19.76	19.14		
10MHz QPSK	RB1#0	22.15	22.24	22.07	13.99	38.45
	RB1#25	22.14	22.20	21.97		
	RB1#49	22.06	22.04	21.85		
	RB25#0	21.20	21.10	21.08		
	RB25#25	21.17	21.12	20.90		
	RB50#0	21.21	21.11	21.00		
10MHz 16QAM	RB1#0	21.18	21.58	21.23	13.36	38.45
	RB1#25	21.16	21.61	21.14		
	RB1#49	21.11	21.50	21.02		
	RB25#0	20.29	20.15	20.10		
	RB25#25	20.23	20.16	19.91		
	RB50#0	20.21	20.12	20.01		
10MHz 64QAM	RB1#0	20.49	20.11	20.01	12.24	38.45
	RB1#25	20.44	20.22	19.99		
	RB1#49	20.40	20.46	20.37		
	RB25#0	20.16	20.10	19.98		
	RB25#25	20.22	20.00	20.15		
	RB50#0	19.64	19.36	19.29		

Band 7 ANT1:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	20.32	20.20	20.21	16.82	33
	RB1#13	20.27	20.17	20.25		
	RB1#24	20.24	20.22	20.30		
	RB15#0	19.27	19.22	19.30		
	RB15#10	19.22	19.14	19.27		
	RB25#0	19.21	19.18	19.26		
5MHz 16QAM	RB1#0	19.09	19.50	19.32	16.00	33
	RB1#13	19.09	19.50	19.34		
	RB1#24	19.11	19.45	19.35		
	RB15#0	18.28	18.15	18.32		
	RB15#10	18.25	18.10	18.28		
	RB25#0	18.27	18.16	18.31		
5MHz 64QAM	RB1#0	18.23	18.07	18.12	14.73	33
	RB1#13	18.03	18.02	18.03		
	RB1#24	18.09	17.83	18.13		
	RB15#0	16.93	16.84	16.93		
	RB15#10	16.88	16.81	16.93		
	RB25#0	16.93	16.87	17.01		
10MHz QPSK	RB1#0	20.20	20.17	20.22	16.77	33
	RB1#25	20.18	20.15	20.23		
	RB1#49	20.12	20.10	20.27		
	RB25#0	19.21	19.21	19.29		
	RB25#25	19.18	19.19	19.25		
	RB50#0	19.23	19.22	19.31		
10MHz 16QAM	RB1#0	19.80	19.32	19.20	16.30	33
	RB1#25	19.75	19.31	19.23		
	RB1#49	19.73	19.23	19.27		
	RB25#0	18.25	18.19	18.37		
	RB25#25	18.21	18.21	18.34		
	RB50#0	18.21	18.16	18.28		
10MHz 64QAM	RB1#0	18.20	18.03	18.25	14.84	33
	RB1#25	18.16	17.70	17.82		
	RB1#49	18.34	17.91	18.06		
	RB25#0	17.84	17.60	17.75		
	RB25#25	17.68	17.43	17.34		
	RB50#0	16.79	16.84	16.87		
15MHz QPSK	RB1#0	20.11	20.12	20.11	16.71	33
	RB1#38	20.13	20.20	20.20		
	RB1#74	20.05	20.06	20.21		
	RB36#0	19.24	19.20	19.23		
	RB36#39	19.18	19.13	19.21		
	RB75#0	19.20	19.18	19.25		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
15MHz 16QAM	RB1#0	19.73	19.29	19.54	16.28	33
	RB1#38	19.78	19.32	19.62		
	RB1#74	19.72	19.22	19.59		
	RB36#0	18.24	18.15	18.21		
	RB36#39	18.12	18.16	18.18		
	RB75#0	18.22	18.22	18.21		
15MHz 64QAM	RB1#0	18.25	18.14	18.10	14.75	33
	RB1#38	18.21	17.58	17.61		
	RB1#74	17.65	18.08	18.13		
	RB36#0	18.06	17.79	17.98		
	RB36#39	17.47	17.43	17.58		
	RB75#0	16.78	16.64	16.75		
20MHz QPSK	RB1#0	20.18	20.19	20.14	16.78	33
	RB1#50	20.18	20.20	20.28		
	RB1#99	20.07	20.07	20.19		
	RB50#0	19.20	19.21	19.32		
	RB50#50	19.13	19.23	19.25		
	RB100#0	19.20	19.19	19.21		
20MHz 16QAM	RB1#0	19.72	19.47	19.33	16.23	33
	RB1#50	19.73	19.51	19.45		
	RB1#99	19.66	19.39	19.40		
	RB50#0	18.24	18.13	18.25		
	RB50#50	18.16	18.13	18.18		
	RB100#0	18.18	18.15	18.23		
20MHz 64QAM	RB1#0	18.13	18.03	18.01	14.63	33
	RB1#50	18.07	18.05	17.70		
	RB1#99	17.71	17.82	17.98		
	RB50#0	17.98	17.92	17.90		
	RB50#50	17.76	17.56	17.56		
	RB100#0	16.78	16.70	16.70		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

Band 12 ANT0:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	22.44	22.60	22.75	14.19	34.77
	RB1#3	22.43	22.64	22.73		
	RB1#5	22.45	22.62	22.71		
	RB3#0	22.60	22.70	22.82		
	RB3#3	22.56	22.71	22.84		
	RB6#0	21.50	21.75	21.83		
1.4MHz 16QAM	RB1#0	21.60	21.84	21.84	13.23	34.77
	RB1#3	21.66	21.88	21.87		
	RB1#5	21.60	21.85	21.83		
	RB3#0	21.69	21.63	21.84		
	RB3#3	21.69	21.70	21.85		
	RB6#0	20.51	20.77	20.73		
1.4MHz 64QAM	RB1#0	20.83	21.06	21.09	12.64	34.77
	RB1#3	20.99	21.09	21.04		
	RB1#5	20.73	21.04	21.29		
	RB3#0	20.96	20.90	21.02		
	RB3#3	20.86	21.11	21.07		
	RB6#0	19.89	19.82	20.08		
3MHz QPSK	RB1#0	22.49	22.66	22.83	14.18	34.77
	RB1#8	22.49	22.69	22.82		
	RB1#14	22.49	22.62	22.79		
	RB6#0	21.58	21.73	21.80		
	RB6#9	21.66	21.72	21.82		
	RB15#0	21.61	21.72	21.77		
3MHz 16QAM	RB1#0	21.73	21.72	22.25	13.61	34.77
	RB1#8	21.69	21.74	22.26		
	RB1#14	21.70	21.75	22.22		
	RB6#0	20.59	20.66	20.84		
	RB6#9	20.67	20.61	20.88		
	RB15#0	20.58	20.76	20.88		
3MHz 64QAM	RB1#0	20.78	21.02	21.10	12.45	34.77
	RB1#8	20.58	20.58	20.63		
	RB1#14	20.64	20.69	21.02		
	RB6#0	20.50	20.79	20.72		
	RB6#9	20.16	20.28	20.64		
	RB15#0	19.54	19.84	20.01		
5MHz QPSK	RB1#0	22.65	22.90	22.77	14.34	34.77
	RB1#13	22.69	22.99	22.80		
	RB1#24	22.71	22.97	22.83		
	RB15#0	21.60	21.80	21.80		
	RB15#10	21.73	21.77	21.81		
	RB25#0	21.65	21.77	21.79		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz 16QAM	RB1#0	21.67	21.63	22.06	13.43	34.77
	RB1#13	21.70	21.68	22.08		
	RB1#24	21.74	21.69	22.07		
	RB15#0	20.56	20.84	20.81		
	RB15#10	20.71	20.80	20.81		
	RB25#0	20.71	20.84	20.83		
5MHz 64QAM	RB1#0	20.96	21.12	21.16	12.51	34.77
	RB1#13	20.54	20.89	20.74		
	RB1#24	20.77	20.93	20.81		
	RB15#0	20.63	20.99	21.01		
	RB15#10	20.49	20.68	20.24		
	RB25#0	19.84	19.99	20.00		
10MHz QPSK	RB1#0	22.64	22.60	22.72	14.16	34.77
	RB1#25	22.73	22.78	22.78		
	RB1#49	22.81	22.76	22.81		
	RB25#0	21.51	21.80	21.78		
	RB25#25	21.73	21.86	21.88		
	RB50#0	21.65	21.88	21.85		
10MHz 16QAM	RB1#0	22.06	21.77	21.74	13.54	34.77
	RB1#25	22.19	21.95	21.83		
	RB1#49	22.19	21.91	21.87		
	RB25#0	20.58	20.83	20.86		
	RB25#25	20.77	20.90	20.96		
	RB50#0	20.63	20.83	20.84		
10MHz 64QAM	RB1#0	20.94	20.99	21.34	12.69	34.77
	RB1#25	20.44	20.90	21.13		
	RB1#49	20.82	20.54	21.27		
	RB25#0	20.67	20.64	21.15		
	RB25#25	20.05	20.10	20.43		
	RB50#0	19.70	19.88	19.94		

Note:
 ERP= Conducted Power(dBm) - LC(dB) + GT(dBd)
 GT(dBd)=GT(dBi)-2.15

ANT 4

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	21.57	22.00	22.29	12.28	34.77
	RB1#3	21.59	22.04	22.26		
	RB1#5	21.62	22.04	22.21		
	RB3#0	21.77	22.16	22.38		
	RB3#3	21.75	22.21	22.43		
	RB6#0	20.64	21.16	21.37		
1.4MHz 16QAM	RB1#0	20.81	21.27	21.39	11.24	34.77
	RB1#3	20.88	21.35	21.37		
	RB1#5	20.86	21.32	21.32		
	RB3#0	20.91	21.09	21.38		
	RB3#3	20.95	21.15	21.35		
	RB6#0	19.73	20.25	20.30		
1.4MHz 64QAM	RB1#0	21.06	21.45	21.33	11.57	34.77
	RB1#3	20.94	21.01	21.72		
	RB1#5	20.74	21.25	21.40		
	RB3#0	20.66	21.04	21.40		
	RB3#3	20.71	21.08	21.35		
	RB6#0	20.31	20.14	21.07		
3MHz QPSK	RB1#0	21.62	22.18	22.25	12.12	34.77
	RB1#8	21.69	22.26	22.27		
	RB1#14	21.77	22.27	22.18		
	RB6#0	20.71	21.12	21.43		
	RB6#9	20.86	21.15	21.31		
	RB15#0	20.83	21.15	21.37		
3MHz 16QAM	RB1#0	20.77	21.55	21.51	11.4	34.77
	RB1#8	20.81	21.52	21.53		
	RB1#14	20.89	21.48	21.46		
	RB6#0	19.62	20.21	20.38		
	RB6#9	19.75	20.20	20.44		
	RB15#0	19.85	20.25	20.34		
3MHz 64QAM	RB1#0	20.38	21.04	21.17	11.43	34.77
	RB1#8	20.93	21.39	21.54		
	RB1#14	20.84	21.44	21.58		
	RB6#0	20.38	21.18	21.43		
	RB6#9	20.66	21.01	21.35		
	RB15#0	20.20	20.82	20.53		
5MHz QPSK	RB1#0	23.21	23.06	23.20	13.14	34.77
	RB1#13	23.28	23.08	23.18		
	RB1#24	23.29	23.05	23.11		
	RB15#0	21.99	22.17	22.25		
	RB15#10	22.09	22.19	22.09		
	RB25#0	22.03	22.18	22.13		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz 16QAM	RB1#0	21.95	22.35	22.27	12.2	34.77
	RB1#13	22.00	22.35	22.19		
	RB1#24	22.03	22.28	22.17		
	RB15#0	21.05	21.21	21.23		
	RB15#10	21.15	21.24	21.10		
	RB25#0	21.11	21.25	21.21		
5MHz 64QAM	RB1#0	20.88	21.30	21.39	11.49	34.77
	RB1#13	20.98	21.00	21.56		
	RB1#24	20.57	20.95	21.64		
	RB15#0	20.79	21.10	21.30		
	RB15#10	20.65	20.95	21.24		
	RB25#0	19.92	20.58	20.46		
10MHz QPSK	RB1#0	22.95	23.11	23.06	13.17	34.77
	RB1#25	23.10	23.32	23.15		
	RB1#49	23.09	23.25	23.04		
	RB25#0	22.00	22.26	22.07		
	RB25#25	22.16	22.33	22.14		
	RB50#0	22.10	22.27	22.09		
10MHz 16QAM	RB1#0	22.03	22.50	22.29	12.45	34.77
	RB1#25	22.14	22.60	22.34		
	RB1#49	22.18	22.57	22.28		
	RB25#0	21.10	21.31	21.17		
	RB25#25	21.27	21.40	21.17		
	RB50#0	21.12	21.31	21.15		
10MHz 64QAM	RB1#0	20.80	21.22	21.57	11.46	34.77
	RB1#25	20.80	21.44	21.61		
	RB1#49	20.57	20.91	21.56		
	RB25#0	20.78	21.12	21.41		
	RB25#25	20.50	21.11	21.24		
	RB50#0	19.84	20.16	20.39		

Band 13

ANT0:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	23.44	23.64	23.44	15.00	34.77
	RB1#13	23.42	23.65	23.34		
	RB1#24	23.46	23.62	23.35		
	RB15#0	22.48	22.48	22.47		
	RB15#10	22.39	22.41	22.40		
	RB25#0	22.43	22.41	22.44		
5MHz 16QAM	RB1#0	22.48	22.35	22.76	14.11	34.77
	RB1#13	22.46	22.33	22.63		
	RB1#24	22.49	22.37	22.64		
	RB15#0	21.49	21.52	21.44		
	RB15#10	21.44	21.50	21.38		
	RB25#0	21.45	21.51	21.47		
5MHz 64QAM	RB1#0	22.02	21.72	21.73	13.37	34.77
	RB1#13	21.52	21.87	21.53		
	RB1#24	21.51	21.70	21.46		
	RB15#0	20.56	20.55	20.59		
	RB15#10	20.42	20.50	20.54		
	RB25#0	20.61	20.51	20.55		
10MHz QPSK	RB1#0	/	23.48	/	14.86	34.77
	RB1#25	/	23.51	/		
	RB1#49	/	23.42	/		
	RB25#0	/	22.40	/		
	RB25#25	/	22.40	/		
	RB50#0	/	22.44	/		
10MHz 16QAM	RB1#0	/	22.90	/	14.31	34.77
	RB1#25	/	22.96	/		
	RB1#49	/	22.83	/		
	RB25#0	/	21.51	/		
	RB25#25	/	21.46	/		
	RB50#0	/	21.40	/		
10MHz 64QAM	RB1#0	/	21.84	/	13.19	34.77
	RB1#25	/	21.73	/		
	RB1#49	/	21.44	/		
	RB25#0	/	20.51	/		
	RB25#25	/	20.57	/		
	RB50#0	/	20.54	/		

ANT 4:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.58	22.68	22.89	12.94	34.77
	RB1#13	22.63	22.69	22.80		
	RB1#24	22.68	22.69	22.81		
	RB15#0	21.66	21.73	21.73		
	RB15#10	21.62	21.63	21.66		
	RB25#0	21.62	21.61	21.68		
5MHz 16QAM	RB1#0	21.89	21.72	21.61	11.99	34.77
	RB1#13	21.93	21.74	21.49		
	RB1#24	21.94	21.72	21.52		
	RB15#0	20.65	20.73	20.76		
	RB15#10	20.59	20.62	20.69		
	RB25#0	20.66	20.70	20.74		
5MHz 64QAM	RB1#0	20.94	20.85	20.66	11.48	34.77
	RB1#13	21.01	21.02	20.65		
	RB1#24	21.43	20.74	20.69		
	RB15#0	20.81	20.67	20.47		
	RB15#10	20.89	20.74	20.40		
	RB25#0	20.19	20.55	20.02		
10MHz QPSK	RB1#0	/	22.59	/	12.76	34.77
	RB1#25	/	22.71	/		
	RB1#49	/	22.56	/		
	RB25#0	/	21.68	/		
	RB25#25	/	21.65	/		
	RB50#0	/	21.68	/		
10MHz 16QAM	RB1#0	/	21.67	/	11.76	34.77
	RB1#25	/	21.71	/		
	RB1#49	/	21.60	/		
	RB25#0	/	20.77	/		
	RB25#25	/	20.74	/		
	RB50#0	/	20.69	/		
10MHz 64QAM	RB1#0	/	21.68	/	12.08	34.77
	RB1#25	/	22.00	/		
	RB1#49	/	22.03	/		
	RB25#0	/	21.83	/		
	RB25#25	/	21.51	/		
	RB50#0	/	21.10	/		

Band 17

ANT0:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.75	22.95	22.77	14.36	34.77
	RB1#13	22.83	23.00	22.81		
	RB1#24	22.82	23.01	22.79		
	RB15#0	21.80	21.82	21.79		
	RB15#10	21.75	21.87	21.79		
	RB25#0	21.75	21.78	21.79		
5MHz 16QAM	RB1#0	21.79	21.65	22.07	13.46	34.77
	RB1#13	21.77	21.70	22.11		
	RB1#24	21.83	21.76	22.07		
	RB15#0	20.82	20.83	20.80		
	RB15#10	20.77	20.91	20.79		
	RB25#0	20.79	20.86	20.83		
5MHz 64QAM	RB1#0	21.22	20.96	21.02	12.57	34.77
	RB1#13	20.92	20.94	21.02		
	RB1#24	20.99	20.83	20.95		
	RB15#0	19.60	19.90	19.67		
	RB15#10	19.77	19.81	19.84		
	RB25#0	19.78	19.78	19.71		
10MHz QPSK	RB1#0	22.72	22.70	22.78	14.27	34.77
	RB1#25	22.83	22.86	22.92		
	RB1#49	22.80	22.81	22.82		
	RB25#0	21.75	21.82	21.74		
	RB25#25	21.91	21.90	21.84		
	RB50#0	21.90	21.86	21.82		
10MHz 16QAM	RB1#0	21.67	21.70	21.89	13.31	34.77
	RB1#25	21.94	21.85	21.90		
	RB1#49	21.96	21.83	21.94		
	RB25#0	20.83	20.91	20.81		
	RB25#25	20.94	20.98	20.85		
	RB50#0	20.89	20.87	20.83		
10MHz 64QAM	RB1#0	20.98	20.72	20.95	12.54	34.77
	RB1#25	20.95	20.95	21.19		
	RB1#49	20.95	21.08	20.77		
	RB25#0	19.81	19.92	19.93		
	RB25#25	19.95	19.92	19.85		
	RB50#0	19.84	19.82	19.91		

Note:
 ERP= Conducted Power(dBm) - LC(dB) + GT(dBd)
 GT(dBd)=GT(dBi)-2.15

ANT 4

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	23.15	23.33	23.09	13.12	34.77
	RB1#13	23.12	23.36	23.09		
	RB1#24	23.15	23.37	22.99		
	RB15#0	22.24	22.14	22.17		
	RB15#10	22.18	22.26	22.05		
	RB25#0	22.14	22.15	22.12		
5MHz 16QAM	RB1#0	22.17	22.04	22.35	12.14	34.77
	RB1#13	22.18	22.09	22.39		
	RB1#24	22.18	22.09	22.23		
	RB15#0	21.25	21.20	21.14		
	RB15#10	21.19	21.32	21.10		
	RB25#0	21.21	21.25	21.17		
5MHz 64QAM	RB1#0	21.13	21.08	21.62	11.41	34.77
	RB1#13	21.31	20.94	21.41		
	RB1#24	21.53	21.50	21.66		
	RB15#0	21.28	20.97	21.42		
	RB15#10	21.24	21.06	21.51		
	RB25#0	21.06	20.20	20.59		
10MHz QPSK	RB1#0	23.02	23.16	23.07	13.06	34.77
	RB1#25	23.14	23.31	23.12		
	RB1#49	23.09	23.19	23.01		
	RB25#0	22.14	22.14	22.06		
	RB25#25	22.29	22.24	22.08		
	RB50#0	22.23	22.13	22.09		
10MHz 16QAM	RB1#0	22.07	22.54	22.29	12.29	34.77
	RB1#25	22.17	22.54	22.32		
	RB1#49	22.14	22.54	22.24		
	RB25#0	21.27	21.18	21.13		
	RB25#25	21.37	21.22	21.14		
	RB50#0	21.27	21.17	21.12		
10MHz 64QAM	RB1#0	21.12	21.53	21.33	11.52	34.77
	RB1#25	21.61	21.22	21.67		
	RB1#49	21.45	21.04	21.77		
	RB25#0	21.27	21.06	21.37		
	RB25#25	21.34	21.15	21.54		
	RB50#0	21.03	20.89	20.90		

Band 38 ANT1:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	14.48	14.93	14.41	11.45	33
	RB1#13	15.02	15.04	14.89		
	RB1#24	14.78	15.05	14.46		
	RB15#0	14.39	14.65	14.46		
	RB15#10	14.61	14.53	14.48		
	RB25#0	14.18	14.30	13.62		
5MHz 16QAM	RB1#0	14.58	14.28	14.22	11.14	33
	RB1#13	14.49	14.62	14.27		
	RB1#24	14.40	14.74	13.94		
	RB15#0	14.03	14.35	14.09		
	RB15#10	14.33	14.41	13.91		
	RB25#0	13.62	13.99	13.32		
5MHz 64QAM	RB1#0	14.55	14.33	14.42	11.24	33
	RB1#13	14.27	14.76	14.84		
	RB1#24	14.32	14.51	14.68		
	RB15#0	14.31	14.38	14.47		
	RB15#10	14.49	14.51	14.45		
	RB25#0	13.50	14.22	13.84		
10MHz QPSK	RB1#0	15.07	14.67	14.68	11.47	33
	RB1#25	14.81	15.06	14.50		
	RB1#49	14.93	14.81	14.41		
	RB25#0	14.73	14.60	14.16		
	RB25#25	14.43	14.74	14.30		
	RB50#0	14.00	13.72	13.55		
10MHz 16QAM	RB1#0	14.55	14.63	14.23	11.07	33
	RB1#25	14.41	14.67	14.28		
	RB1#49	14.59	14.50	14.43		
	RB25#0	14.37	14.34	13.89		
	RB25#25	14.13	14.32	13.98		
	RB50#0	13.58	13.44	13.89		
10MHz 64QAM	RB1#0	14.71	14.79	14.73	11.32	33
	RB1#25	14.31	14.28	14.55		
	RB1#49	14.38	14.44	14.92		
	RB25#0	14.39	14.56	14.37		
	RB25#25	14.41	14.58	14.45		
	RB50#0	13.48	14.03	14.12		
15MHz QPSK	RB1#0	14.56	14.77	14.44	11.39	33
	RB1#38	14.99	14.47	14.57		
	RB1#74	14.49	14.87	14.22		
	RB36#0	14.61	14.64	14.40		
	RB36#39	14.44	14.55	14.23		
	RB75#0	13.66	14.17	13.41		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
15MHz 16QAM	RB1#0	14.64	14.31	13.82	11.10	33
	RB1#38	14.58	14.67	14.08		
	RB1#74	14.70	14.58	14.29		
	RB36#0	14.30	14.17	14.02		
	RB36#39	14.33	14.28	14.17		
	RB75#0	13.57	13.70	13.48		
15MHz 64QAM	RB1#0	14.64	14.86	14.81	11.26	33
	RB1#38	14.75	14.60	14.42		
	RB1#74	14.36	14.43	14.75		
	RB36#0	14.24	14.36	14.37		
	RB36#39	14.34	14.39	14.46		
	RB75#0	13.57	14.27	13.64		
20MHz QPSK	RB1#0	14.58	14.74	14.77	11.42	33
	RB1#50	14.57	14.86	14.68		
	RB1#99	14.91	15.02	14.77		
	RB50#0	14.60	14.70	14.45		
	RB50#50	14.49	14.53	14.30		
	RB100#0	13.97	14.03	13.53		
20MHz 16QAM	RB1#0	14.53	14.27	14.28	10.98	33
	RB1#50	14.58	14.39	14.39		
	RB1#99	14.29	14.39	14.21		
	RB50#0	14.00	14.31	14.04		
	RB50#50	14.32	14.32	14.06		
	RB100#0	13.40	13.68	13.81		
20MHz 64QAM	RB1#0	14.19	14.77	14.86	11.26	33
	RB1#50	14.25	14.73	14.75		
	RB1#99	14.74	14.47	14.32		
	RB50#0	14.44	14.44	14.42		
	RB50#50	14.27	14.38	14.31		
	RB100#0	13.74	13.87	13.56		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

Band 40 ANT1:

LTE Band 40 Lower:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.21	22.11	22.15	17.91	24
	RB1#13	22.14	22.12	22.13		
	RB1#24	22.16	22.11	22.15		
	RB15#0	21.16	21.12	21.16		
	RB15#10	21.04	21.04	21.03		
	RB25#0	21.09	21.10	21.13		
5MHz 16QAM	RB1#0	21.14	21.14	21.40	17.10	24
	RB1#13	21.09	21.15	21.40		
	RB1#24	21.10	21.16	21.39		
	RB15#0	20.22	20.28	20.30		
	RB15#10	20.15	20.20	20.21		
	RB25#0	20.24	20.27	20.21		
5MHz 64QAM	RB1#0	21.08	20.98	21.07	16.78	24
	RB1#13	21.03	21.00	20.98		
	RB1#24	21.01	20.99	21.02		
	RB15#0	20.20	20.17	20.19		
	RB15#10	20.09	20.13	20.04		
	RB25#0	20.12	20.06	20.09		
10MHz QPSK	RB1#0	/	22.15	/	17.88	24
	RB1#25	/	22.18	/		
	RB1#49	/	22.12	/		
	RB25#0	/	21.09	/		
	RB25#25	/	21.04	/		
	RB50#0	/	21.06	/		
10MHz 16QAM	RB1#0	/	21.24	/	16.94	24
	RB1#25	/	21.22	/		
	RB1#49	/	21.24	/		
	RB25#0	/	20.25	/		
	RB25#25	/	20.21	/		
	RB50#0	/	20.23	/		
10MHz 64QAM	RB1#0	/	21.07	/	16.77	24
	RB1#25	/	21.02	/		
	RB1#49	/	21.05	/		
	RB25#0	/	20.16	/		
	RB25#25	/	20.12	/		
	RB50#0	/	20.05	/		

LTE Band 40 Upper:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.30	22.35	22.40	18.11	24
	RB1#13	22.28	22.34	22.39		
	RB1#24	22.28	22.31	22.41		
	RB15#0	21.27	21.29	21.31		
	RB15#10	21.27	21.27	21.26		
	RB25#0	21.29	21.24	21.26		
5MHz 16QAM	RB1#0	21.35	21.55	21.33	17.25	24
	RB1#13	21.33	21.55	21.30		
	RB1#24	21.34	21.55	21.30		
	RB15#0	20.38	20.45	20.40		
	RB15#10	20.42	20.41	20.36		
	RB25#0	20.48	20.35	20.40		
5MHz 64QAM	RB1#0	20.89	20.87	20.80	16.59	24
	RB1#13	20.79	20.73	20.79		
	RB1#24	20.78	20.78	20.79		
	RB15#0	19.93	19.92	19.90		
	RB15#10	19.91	19.93	19.89		
	RB25#0	19.87	19.84	19.86		
10MHz QPSK	RB1#0	/	22.30	/	18.01	24
	RB1#25	/	22.31	/		
	RB1#49	/	22.30	/		
	RB25#0	/	21.21	/		
	RB25#25	/	21.25	/		
	RB50#0	/	21.25	/		
10MHz 16QAM	RB1#0	/	21.19	/	16.90	24
	RB1#25	/	21.20	/		
	RB1#49	/	21.17	/		
	RB25#0	/	20.44	/		
	RB25#25	/	20.44	/		
	RB50#0	/	20.37	/		
10MHz 64QAM	RB1#0	/	20.85	/	16.55	24
	RB1#25	/	20.73	/		
	RB1#49	/	20.73	/		
	RB25#0	/	19.91	/		
	RB25#25	/	19.86	/		
	RB50#0	/	19.80	/		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

Band 41 ANT4:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	14.68	14.40	14.48	15.40	33
	RB1#13	14.65	14.39	14.48		
	RB1#24	14.65	14.34	14.47		
	RB15#0	14.70	14.34	14.51		
	RB15#10	14.63	14.33	14.48		
	RB25#0	14.68	14.35	14.51		
5MHz 16QAM	RB1#0	14.78	14.64	14.50	15.48	33
	RB1#13	14.76	14.60	14.50		
	RB1#24	14.76	14.63	14.51		
	RB15#0	14.74	14.42	14.45		
	RB15#10	14.69	14.38	14.39		
	RB25#0	14.73	14.34	14.51		
5MHz 64QAM	RB1#0	15.39	15.10	15.70	16.40	33
	RB1#13	15.24	15.02	15.49		
	RB1#24	15.19	14.88	15.42		
	RB15#0	14.45	14.13	14.73		
	RB15#10	14.36	14.17	14.59		
	RB25#0	14.35	14.04	14.61		
10MHz QPSK	RB1#0	14.70	14.41	14.51	15.40	33
	RB1#25	14.70	14.47	14.52		
	RB1#49	14.67	14.37	14.45		
	RB25#0	14.68	14.30	14.53		
	RB25#25	14.58	14.36	14.39		
	RB50#0	14.65	14.37	14.53		
10MHz 16QAM	RB1#0	14.63	14.52	14.71	15.45	33
	RB1#25	14.62	14.51	14.75		
	RB1#49	14.59	14.52	14.69		
	RB25#0	14.73	14.40	14.54		
	RB25#25	14.69	14.36	14.44		
	RB50#0	14.68	14.39	14.50		
10MHz 64QAM	RB1#0	15.33	15.36	15.92	16.62	33
	RB1#25	15.19	15.15	15.70		
	RB1#49	15.02	15.01	15.50		
	RB25#0	14.36	14.34	14.95		
	RB25#25	14.20	14.14	14.61		
	RB50#0	14.23	14.18	14.71		
15MHz QPSK	RB1#0	14.60	14.39	14.35	15.34	33
	RB1#38	14.64	14.36	14.51		
	RB1#74	14.50	14.24	14.37		
	RB36#0	14.60	14.35	14.46		
	RB36#39	14.60	14.28	14.43		
	RB75#0	14.55	14.31	14.40		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
15MHz 16QAM	RB1#0	14.85	14.33	14.64	15.58	33
	RB1#38	14.88	14.33	14.71		
	RB1#74	14.76	14.21	14.63		
	RB36#0	14.59	14.33	14.48		
	RB36#39	14.55	14.30	14.46		
	RB75#0	14.54	14.30	14.48		
15MHz 64QAM	RB1#0	15.27	15.30	16.03	16.73	33
	RB1#38	15.10	15.13	15.71		
	RB1#74	14.81	14.77	15.38		
	RB36#0	14.18	14.26	14.91		
	RB36#39	13.94	13.98	14.50		
	RB75#0	14.08	14.12	14.73		
20MHz QPSK	RB1#0	14.57	14.29	14.42	15.35	33
	RB1#50	14.65	14.32	14.59		
	RB1#99	14.44	14.14	14.39		
	RB50#0	14.62	14.27	14.48		
	RB50#50	14.58	14.31	14.37		
	RB100#0	14.59	14.30	14.43		
20MHz 16QAM	RB1#0	14.69	14.27	14.59	15.43	33
	RB1#50	14.73	14.30	14.71		
	RB1#99	14.50	14.11	14.57		
	RB50#0	14.58	14.32	14.48		
	RB50#50	14.53	14.34	14.39		
	RB100#0	14.57	14.34	14.37		
20MHz 64QAM	RB1#0	15.26	15.34	16.09	16.79	33
	RB1#50	15.01	15.11	15.85		
	RB1#99	14.71	14.65	15.32		
	RB50#0	14.22	14.26	15.12		
	RB50#50	13.95	13.94	14.53		
	RB100#0	14.13	14.11	14.92		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

Band 42 ANT5:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	14.73	14.77	14.96	17.44	30
	RB1#13	14.67	14.72	14.95		
	RB1#24	14.73	14.79	15.04		
	RB15#0	13.83	13.84	14.08		
	RB15#10	13.80	13.85	14.10		
	RB25#0	13.81	13.83	14.08		
5MHz 16QAM	RB1#0	14.05	13.87	14.15	16.59	30
	RB1#13	14.06	13.90	14.18		
	RB1#24	14.10	13.88	14.19		
	RB15#0	12.82	12.77	13.09		
	RB15#10	12.84	12.77	13.10		
	RB25#0	12.78	12.86	13.13		
5MHz 64QAM	RB1#0	14.14	13.63	13.64	16.58	30
	RB1#13	14.07	13.57	13.55		
	RB1#24	14.18	13.54	13.65		
	RB15#0	13.25	12.75	12.81		
	RB15#10	13.20	12.65	12.71		
	RB25#0	13.17	12.64	12.74		
10MHz QPSK	RB1#0	14.68	14.77	15.02	17.43	30
	RB1#25	14.74	14.77	14.98		
	RB1#49	14.72	14.82	15.03		
	RB25#0	13.80	13.81	14.03		
	RB25#25	13.84	13.84	14.07		
	RB50#0	13.84	13.86	14.08		
10MHz 16QAM	RB1#0	13.97	13.77	14.19	16.59	30
	RB1#25	14.06	13.84	14.19		
	RB1#49	14.04	13.82	14.19		
	RB25#0	12.78	12.84	13.08		
	RB25#25	12.83	12.87	13.10		
	RB50#0	12.78	12.82	13.07		
10MHz 64QAM	RB1#0	14.12	13.60	13.50	16.52	30
	RB1#25	14.08	13.72	13.31		
	RB1#49	13.74	13.15	13.51		
	RB25#0	13.93	13.28	13.34		
	RB25#25	13.46	13.13	12.47		
	RB50#0	13.12	12.59	12.53		
15MHz QPSK	RB1#0	14.57	14.61	14.82	17.30	30
	RB1#38	14.64	14.72	14.88		
	RB1#74	14.66	14.68	14.90		
	RB36#0	13.73	13.77	13.97		
	RB36#39	13.75	13.80	14.01		
	RB75#0	13.77	13.81	14.03		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
15MHz 16QAM	RB1#0	13.69	14.01	14.20	16.66	30
	RB1#38	13.79	14.08	14.25		
	RB1#74	13.74	14.10	14.26		
	RB36#0	12.70	12.82	12.97		
	RB36#39	12.72	12.89	12.99		
	RB75#0	12.73	12.80	12.96		
15MHz 64QAM	RB1#0	14.10	13.62	13.68	16.50	30
	RB1#38	13.93	13.48	13.32		
	RB1#74	13.77	13.51	13.18		
	RB36#0	13.72	13.19	13.49		
	RB36#39	13.57	13.13	12.77		
	RB75#0	13.05	12.63	12.70		
20MHz QPSK	RB1#0	14.52	14.71	14.70	17.34	30
	RB1#50	14.65	14.85	14.94		
	RB1#99	14.58	14.76	14.89		
	RB50#0	13.77	13.81	13.95		
	RB50#50	13.79	13.83	14.05		
	RB100#0	13.76	13.82	14.01		
20MHz 16QAM	RB1#0	13.60	14.00	13.94	16.55	30
	RB1#50	13.77	14.15	14.15		
	RB1#99	13.67	14.08	14.09		
	RB50#0	12.77	12.79	12.93		
	RB50#50	12.78	12.82	12.99		
	RB100#0	12.76	12.79	12.98		
20MHz 64QAM	RB1#0	14.11	13.62	13.50	16.51	30
	RB1#50	13.99	13.21	13.47		
	RB1#99	13.92	13.61	13.52		
	RB50#0	13.68	13.25	13.16		
	RB50#50	13.68	12.77	13.11		
	RB100#0	13.01	12.66	12.63		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

Band 66 ANT0:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	17.65	17.74	17.58	14.86	30
	RB1#3	17.65	17.73	17.60		
	RB1#5	17.68	17.72	17.65		
	RB3#0	17.66	17.76	17.61		
	RB3#3	17.70	17.72	17.60		
	RB6#0	16.71	16.77	16.64		
1.4MHz 16QAM	RB1#0	16.64	16.68	16.73	13.99	30
	RB1#3	16.68	16.70	16.74		
	RB1#5	16.70	16.70	16.75		
	RB3#0	16.75	16.89	16.62		
	RB3#3	16.76	16.89	16.61		
	RB6#0	15.62	15.74	15.64		
1.4MHz 64QAM	RB1#0	16.46	16.24	16.30	13.63	30
	RB1#3	16.28	16.41	15.98		
	RB1#5	16.53	15.92	15.88		
	RB3#0	16.11	15.87	16.14		
	RB3#3	15.95	15.55	15.66		
	RB6#0	15.01	15.04	15.00		
3MHz QPSK	RB1#0	17.65	17.71	17.61	14.81	30
	RB1#8	17.62	17.65	17.59		
	RB1#14	17.70	17.62	17.56		
	RB6#0	16.70	16.77	16.68		
	RB6#9	16.64	16.73	16.59		
	RB15#0	16.66	16.69	16.62		
3MHz 16QAM	RB1#0	16.69	17.32	16.77	14.42	30
	RB1#8	16.67	17.31	16.71		
	RB1#14	16.68	17.26	16.72		
	RB6#0	15.64	15.79	15.67		
	RB6#9	15.57	15.77	15.64		
	RB15#0	15.72	15.78	15.60		
3MHz 64QAM	RB1#0	16.24	16.45	16.07	13.55	30
	RB1#8	16.30	16.00	15.70		
	RB1#14	15.73	16.08	16.06		
	RB6#0	15.77	15.98	15.97		
	RB6#9	15.62	15.98	15.21		
	RB15#0	15.21	15.05	14.97		
5MHz QPSK	RB1#0	17.72	17.81	17.71	14.91	30
	RB1#13	17.71	17.79	17.69		
	RB1#24	17.71	17.79	17.68		
	RB15#0	16.69	16.79	16.69		
	RB15#10	16.72	16.72	16.68		
	RB25#0	16.70	16.71	16.70		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz 16QAM	RB1#0	16.81	16.68	17.00	14.10	30
	RB1#13	16.78	16.65	16.97		
	RB1#24	16.78	16.65	16.97		
	RB15#0	15.73	15.80	15.64		
	RB15#10	15.72	15.72	15.64		
	RB25#0	15.72	15.79	15.66		
5MHz 64QAM	RB1#0	16.21	16.40	16.21	13.59	30
	RB1#13	15.89	16.39	15.89		
	RB1#24	15.93	16.49	15.90		
	RB15#0	16.00	16.21	15.87		
	RB15#10	15.68	15.96	15.34		
	RB25#0	15.02	15.17	15.21		
10MHz QPSK	RB1#0	17.67	17.79	17.67	14.89	30
	RB1#25	17.67	17.79	17.67		
	RB1#49	17.65	17.68	17.55		
	RB25#0	16.67	16.74	16.68		
	RB25#25	16.71	16.75	16.71		
	RB50#0	16.74	16.81	16.72		
10MHz 16QAM	RB1#0	17.29	16.90	16.62	14.39	30
	RB1#25	17.27	16.90	16.63		
	RB1#49	17.24	16.80	16.56		
	RB25#0	15.73	15.77	15.77		
	RB25#25	15.76	15.76	15.78		
	RB50#0	15.73	15.78	15.70		
10MHz 64QAM	RB1#0	16.32	16.52	16.37	13.62	30
	RB1#25	16.30	16.51	16.34		
	RB1#49	15.75	16.40	15.97		
	RB25#0	15.92	16.34	16.02		
	RB25#25	15.75	15.87	15.72		
	RB50#0	15.12	15.11	15.02		
15MHz QPSK	RB1#0	17.65	17.72	17.58	14.83	30
	RB1#38	17.68	17.73	17.59		
	RB1#74	17.67	17.61	17.52		
	RB36#0	16.61	16.80	16.71		
	RB36#39	16.70	16.77	16.71		
	RB75#0	16.70	16.76	16.73		
15MHz 16QAM	RB1#0	16.81	17.15	17.21	14.32	30
	RB1#38	16.84	17.19	17.22		
	RB1#74	16.78	17.07	17.13		
	RB36#0	15.71	15.74	15.66		
	RB36#39	15.71	15.76	15.69		
	RB75#0	15.71	15.76	15.73		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
15MHz 64QAM	RB1#0	16.15	16.16	16.17	13.27	30
	RB1#38	15.64	15.87	16.05		
	RB1#74	16.02	16.03	16.01		
	RB36#0	15.69	15.76	15.92		
	RB36#39	15.70	15.43	15.82		
	RB75#0	15.08	15.02	15.32		
20MHz QPSK	RB1#0	17.63	17.69	17.67	14.90	30
	RB1#50	17.71	17.80	17.73		
	RB1#99	17.56	17.62	17.60		
	RB50#0	16.64	16.78	16.76		
	RB50#50	16.65	16.81	16.75		
	RB100#0	16.67	16.85	16.78		
20MHz 16QAM	RB1#0	17.16	17.01	16.84	14.31	30
	RB1#50	17.21	17.11	16.90		
	RB1#99	17.15	16.91	16.74		
	RB50#0	15.63	15.76	15.75		
	RB50#50	15.66	15.76	15.69		
	RB100#0	15.64	15.80	15.70		
20MHz 64QAM	RB1#0	16.16	16.21	16.23	13.37	30
	RB1#50	15.90	15.95	15.80		
	RB1#99	15.78	16.24	16.27		
	RB50#0	15.98	16.02	15.84		
	RB50#50	15.69	15.75	15.79		
	RB100#0	15.08	15.12	15.21		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

ANT 4

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	15.90	15.66	15.38	11.74	30
	RB1#3	15.90	15.63	15.38		
	RB1#5	15.88	15.66	15.44		
	RB3#0	15.92	15.66	15.43		
	RB3#3	15.94	15.63	15.43		
	RB6#0	14.91	14.64	14.41		
1.4MHz 16QAM	RB1#0	14.93	14.64	14.56	10.79	30
	RB1#3	14.93	14.61	14.53		
	RB1#5	14.89	14.61	14.50		
	RB3#0	14.99	14.81	14.39		
	RB3#3	14.99	14.81	14.39		
	RB6#0	13.83	13.64	13.42		
1.4MHz 64QAM	RB1#0	14.97	14.58	14.84	11.22	30
	RB1#3	15.42	14.84	14.56		
	RB1#5	14.92	15.26	14.56		
	RB3#0	15.05	14.54	14.51		
	RB3#3	15.07	14.60	14.48		
	RB6#0	14.64	13.80	14.26		
3MHz QPSK	RB1#0	15.92	15.61	15.38	11.72	30
	RB1#8	15.87	15.53	15.39		
	RB1#14	15.90	15.57	15.37		
	RB6#0	14.92	14.68	14.43		
	RB6#9	14.92	14.58	14.41		
	RB15#0	14.91	14.61	14.40		
3MHz 16QAM	RB1#0	14.90	15.21	14.53	11.01	30
	RB1#8	14.90	15.19	14.52		
	RB1#14	14.89	15.13	14.49		
	RB6#0	13.86	13.74	13.40		
	RB6#9	13.79	13.65	13.39		
	RB15#0	13.92	13.65	13.34		
3MHz 64QAM	RB1#0	15.00	14.82	14.71	11.18	30
	RB1#8	15.38	14.78	14.48		
	RB1#14	14.82	14.66	14.41		
	RB6#0	14.80	14.86	14.41		
	RB6#9	14.96	14.78	14.54		
	RB15#0	14.64	14.04	13.65		
5MHz QPSK	RB1#0	16.02	15.68	15.47	11.82	30
	RB1#13	16.01	15.61	15.46		
	RB1#24	15.97	15.61	15.45		
	RB15#0	14.90	14.64	14.49		
	RB15#10	14.93	14.63	14.33		
	RB25#0	14.91	14.62	14.40		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz 16QAM	RB1#0	15.29	14.77	14.30	11.09	30
	RB1#13	15.27	14.70	14.31		
	RB1#24	15.23	14.68	14.30		
	RB15#0	13.85	13.64	13.51		
	RB15#10	13.86	13.65	13.36		
	RB25#0	13.92	13.63	13.47		
5MHz 64QAM	RB1#0	14.92	14.90	14.47	11.24	30
	RB1#13	15.44	14.62	14.56		
	RB1#24	15.35	15.09	14.32		
	RB15#0	14.90	14.84	14.42		
	RB15#10	14.90	14.74	14.48		
	RB25#0	14.07	14.04	13.63		
10MHz QPSK	RB1#0	15.92	15.63	15.37	11.72	30
	RB1#25	15.88	15.60	15.40		
	RB1#49	15.82	15.53	15.33		
	RB25#0	14.85	14.59	14.35		
	RB25#25	14.93	14.63	14.35		
	RB50#0	14.92	14.65	14.40		
10MHz 16QAM	RB1#0	14.96	15.27	14.52	11.07	30
	RB1#25	14.88	15.21	14.53		
	RB1#49	14.80	15.10	14.46		
	RB25#0	13.91	13.65	13.40		
	RB25#25	13.98	13.70	13.38		
	RB50#0	13.91	13.65	13.35		
10MHz 64QAM	RB1#0	14.89	14.52	14.28	11.06	30
	RB1#25	15.26	14.85	14.84		
	RB1#49	14.93	14.80	14.54		
	RB25#0	14.95	14.84	14.40		
	RB25#25	14.91	14.69	14.46		
	RB50#0	14.44	14.41	13.65		
15MHz QPSK	RB1#0	15.86	15.63	15.38	11.66	30
	RB1#38	15.86	15.55	15.40		
	RB1#74	15.71	15.42	15.30		
	RB36#0	14.78	14.66	14.39		
	RB36#39	14.85	14.62	14.35		
	RB75#0	14.82	14.66	14.40		
15MHz 16QAM	RB1#0	15.34	15.29	14.53	11.14	30
	RB1#38	15.29	15.21	14.53		
	RB1#74	15.16	15.09	14.45		
	RB36#0	13.80	13.68	13.42		
	RB36#39	13.77	13.62	13.42		
	RB75#0	13.80	13.65	13.42		

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
15MHz 64QAM	RB1#0	15.00	14.79	14.61	11.00	30
	RB1#38	14.71	14.91	14.86		
	RB1#74	15.20	14.89	14.80		
	RB36#0	15.05	14.63	14.59		
	RB36#39	14.84	14.72	14.30		
	RB75#0	14.29	14.00	13.74		
20MHz QPSK	RB1#0	15.87	15.67	15.47	11.67	30
	RB1#50	15.83	15.68	15.45		
	RB1#99	15.57	15.45	15.34		
	RB50#0	14.70	14.64	14.41		
	RB50#50	14.65	14.62	14.40		
	RB100#0	14.73	14.65	14.43		
20MHz 16QAM	RB1#0	15.36	14.98	14.63	11.16	30
	RB1#50	15.34	14.98	14.65		
	RB1#99	15.16	14.70	14.48		
	RB50#0	13.64	13.60	13.42		
	RB50#50	13.66	13.62	13.40		
	RB100#0	13.68	13.62	13.44		
20MHz 64QAM	RB1#0	15.04	14.67	14.79	10.95	30
	RB1#50	15.14	14.96	14.63		
	RB1#99	15.15	14.92	14.95		
	RB50#0	14.97	14.71	14.32		
	RB50#50	14.97	14.60	14.39		
	RB100#0	14.42	14.01	13.79		

Note: EIRP=Conducted Power(dBm) - LC(dB) + GT(dBi)

Peak-to-average ratio (PAR)

Cellular Band

GSM850

Test Mode	Peak-to-average Ratio (dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
GSM	2.83	2.37	2.22	13
EDGE	2.16	2.47	2.51	13

WCDMA B5

Test Mode	Peak-to-average Ratio (dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.08	2.44	2.72	13
HSDPA	4.55	3.88	4.33	13
HSUPA	5.45	4.46	4.74	13

PCS Band

PCS1900

Test Mode	Peak-to-average Ratio (dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
GSM	2.49	2.54	2.37	13
EDGE	2.32	2.17	2.29	13

WCDMA B2

Test Mode	Peak-to-average Ratio (dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.17	3.24	3.21	13
HSDPA	4.71	4.68	4.65	13
HSUPA	6.03	5.93	5.9	13

AWS Band: WCDMA B4

Test Mode	Peak-to-average Ratio (dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.24	3.37	3.33	13
HSDPA	4.84	4.81	4.74	13
HSUPA	6.35	5.93	6.19	13

LTE Band: (pre-scan all bandwidth, the worst case as below)

LTE Band 2 20MHz Bandwidth

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio (dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	4.03	4.41	4.26	13
	RB100#0	4.75	4.87	4.75	13
20MHz 16QAM	RB1#0	5.01	5.07	5.13	13
	RB100#0	5.68	5.83	5.68	13
20MHz 64QAM	RB1#0	5.33	5.47	5.34	13
	RB100#0	6.06	6.34	6.22	13

LTE Band 4 20MHz Bandwidth

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	5.3	3.97	4.93	13
	RB100#0	4.84	4.96	5.1	13
20MHz 16QAM	RB1#0	6.38	4.67	5.71	13
	RB100#0	5.77	5.86	6.03	13
20MHz 64QAM	RB1#0	5.74	4.96	5.92	13
	RB100#0	6.38	5.43	6.31	13

LTE Band 5 10MHz Bandwidth

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	4.17	3.37	3.27	13
	RB50#0	5.22	5.13	5.29	13
10MHz 16QAM	RB1#0	4.97	4.26	4.26	13
	RB50#0	6.12	5.9	6.22	13
10MHz 64QAM	RB1#0	5.29	5.11	4.97	13
	RB50#0	6.22	6.39	6.12	13

LTE Band 7 20MHz Bandwidth

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	4.7	4.72	5.01	13
	RB100#0	5.07	5.16	5.10	13
20MHz 16QAM	RB1#0	5.65	5.30	5.74	13
	RB100#0	5.97	6.12	6.06	13
20MHz 64QAM	RB1#0	5.95	6.22	6.03	13
	RB100#0	6.13	6.49	6.27	13

LTE Band 12 10MHz Bandwidth

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	3.94	4.1	4.17	13
	RB50#0	5.26	5.45	5.35	13
10MHz 16QAM	RB1#0	4.68	5.16	5.26	13
	RB50#0	6.12	6.25	6.25	13
20MHz 64QAM	RB1#0	5.95	6.22	6.03	13
	RB100#0	6.13	6.49	6.27	13

LTE Band 13 10MHz Bandwidth

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	/	4.46	/	13
	RB50#0	/	5.32	/	13
10MHz 16QAM	RB1#0	/	5.48	/	13
	RB50#0	/	6.19	/	13
10MHz 64QAM	RB1#0	/	6.03	/	13
	RB50#0	/	6.27	/	13

LTE Band 17 10MHz Bandwidth

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	4.26	4.07	4.04	13
	RB50#0	5.35	5.35	5.38	13
10MHz 16QAM	RB1#0	5.19	4.78	5.22	13
	RB50#0	6.25	6.22	6.25	13
10MHz 64QAM	RB1#0	5.94	4.92	5.71	13
	RB50#0	5.87	4.73	5.63	13

LTE Band 38 20MHz Bandwidth

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	8.67	8.78	8.9	13
	RB100#0	9.07	9.07	9.1	13
20MHz 16QAM	RB1#0	9.36	9.57	9.54	13
	RB100#0	9.97	9.91	9.94	13
20MHz 64QAM	RB1#0	9.93	9.77	9.48	13
	RB100#0	9.62	9.34	9.16	13

LTE Band 41 20MHz Bandwidth

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	9.19	8.96	9.19	13
	RB100#0	9.04	8.99	9.04	13
20MHz 16QAM	RB1#0	9.51	9.28	9.54	13
	RB100#0	9.68	9.59	9.68	13
20MHz 64QAM	RB1#0	9.31	9.97	9.35	13
	RB100#0	9.25	9.48	9.96	13

LTE Band 42 20MHz Bandwidth

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	8.96	9.19	9.16	13
	RB100#0	9.19	9.19	9.16	13
20MHz 16QAM	RB1#0	9.68	10.03	9.86	13
	RB100#0	10.00	10.00	9.97	13
20MHz 64QAM	RB1#0	9.78	9.66	9.37	13
	RB100#0	8.96	10.24	9.45	13

LTE Band 66 20MHz Bandwidth

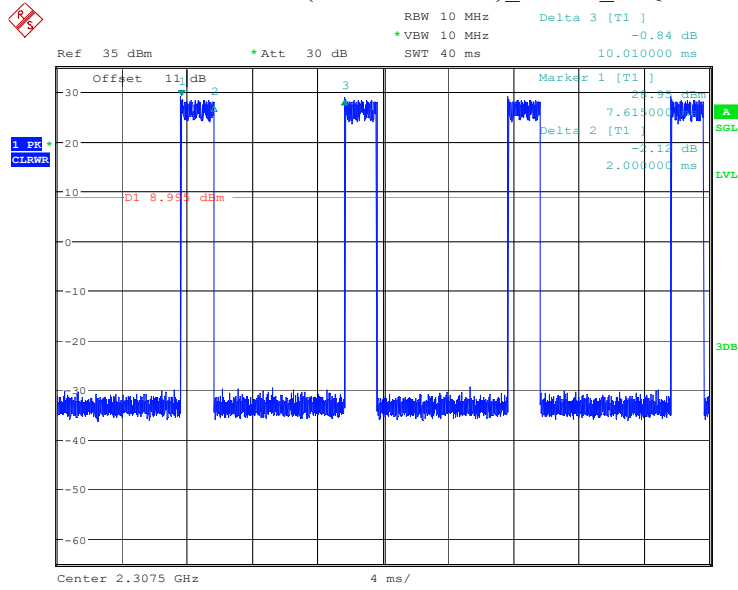
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	5.3	4.75	4.32	13
	RB100#0	4.84	5.1	4.96	13
20MHz 16QAM	RB1#0	6.41	5.45	5.25	13
	RB100#0	5.8	6.06	5.91	13
20MHz 64QAM	RB1#0	5.48	5.74	6.22	13
	RB100#0	4.17	5.25	4.43	13

LTE Band 40 Duty Cycle

Operation Band	Modulation	Bandwidth	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	Limit (%)
LTE Band 40 Lower	QPSK	5M	1.995	10.005	19.94	38
		10M	2.005	10.01	20.03	38
	16QAM	5M	2	10.01	19.98	38
		10M	2	10.005	19.99	38
LTE Band 40 Upper	QPSK	5M	2	10.005	19.99	38
		10M	2	10.01	19.98	38
	16QAM	5M	2	10.005	19.99	38
		10M	1.995	10.01	19.93	38

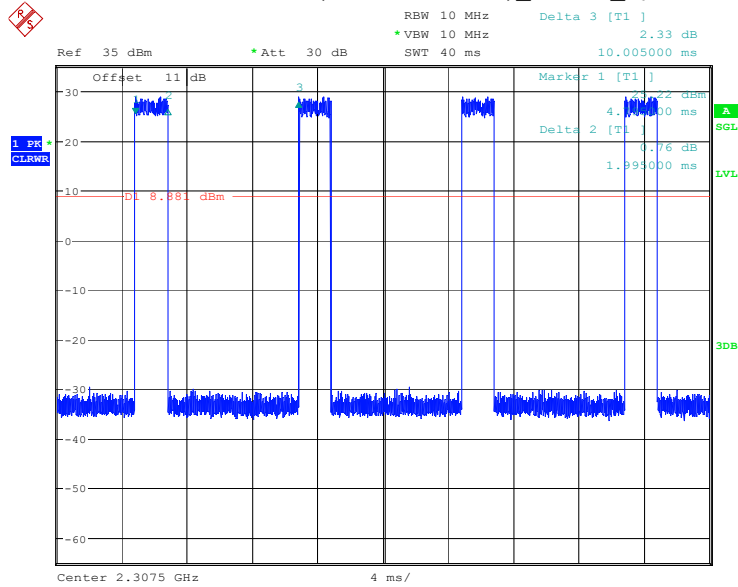
Duty Cycle

LTE Band 40 (2305-2315MHz)_ 5MHz_16QAM



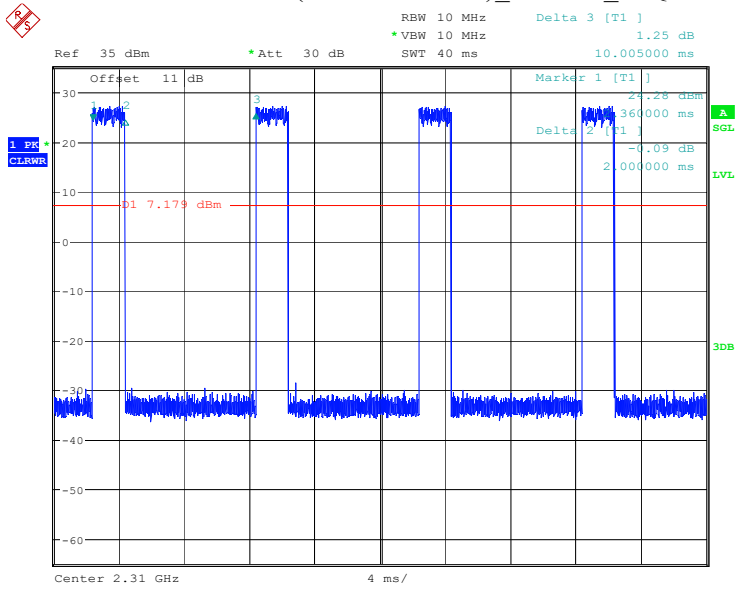
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Date: 19.FEB.2024 15:41:05

LTE Band 40 (2305-2315MHz)_ 5MHz_QPSK



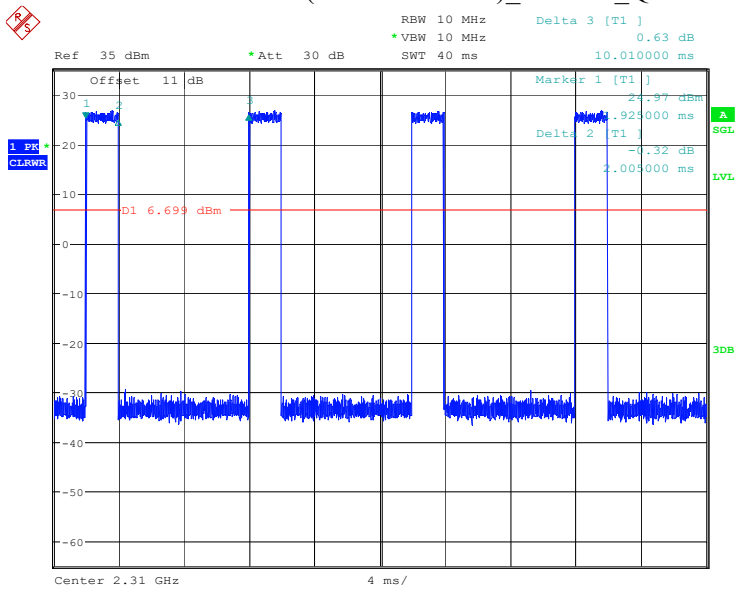
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Date: 19.FEB.2024 15:41:27

LTE Band 40 (2305-2315MHz)_ 10MHz_ 16QAM



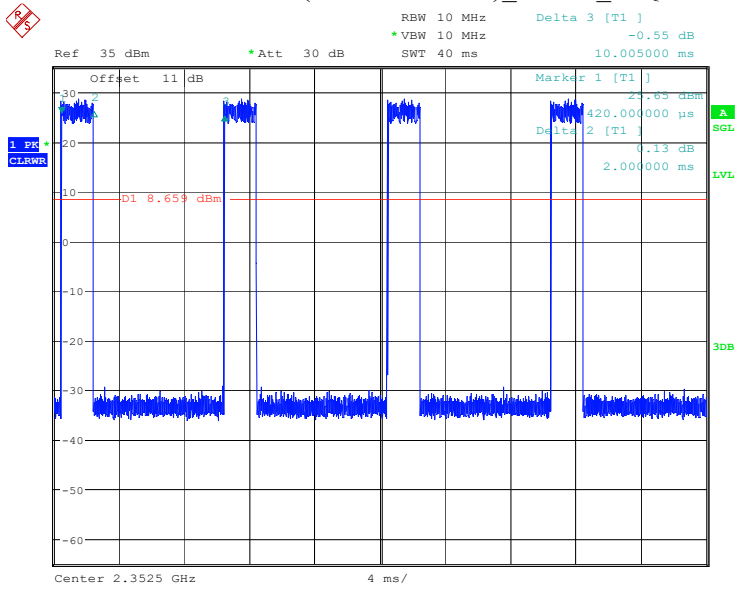
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LTE Band 40 (2305-2315MHz)_ 10MHz_ QPSK



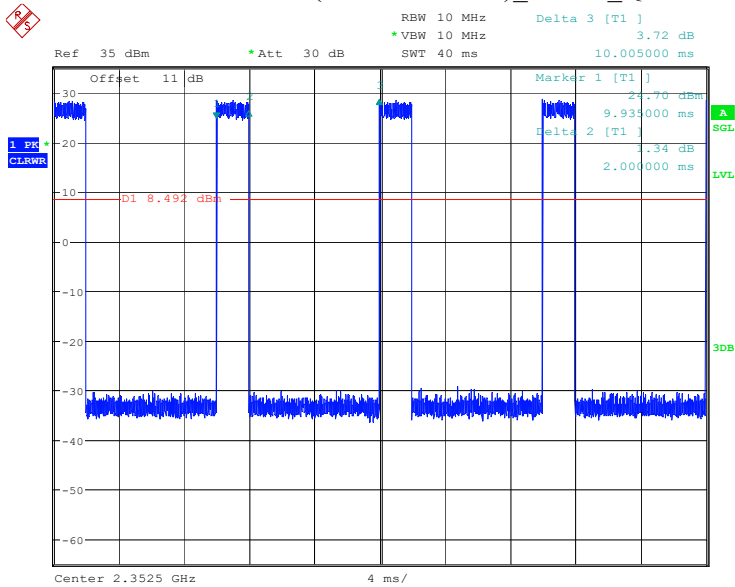
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LTE Band 40 (2350-2360MHz)_ 5MHz_16QAM



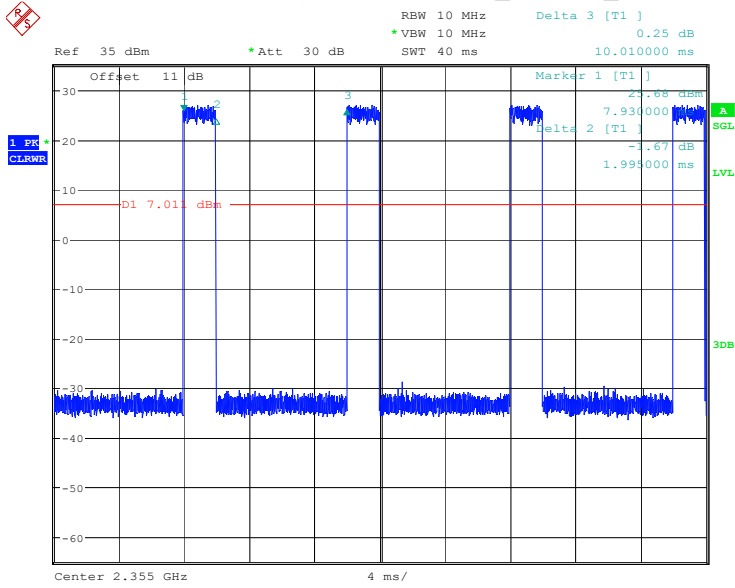
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LTE Band 40 (2350-2360MHz)_ 5MHz_QPSK



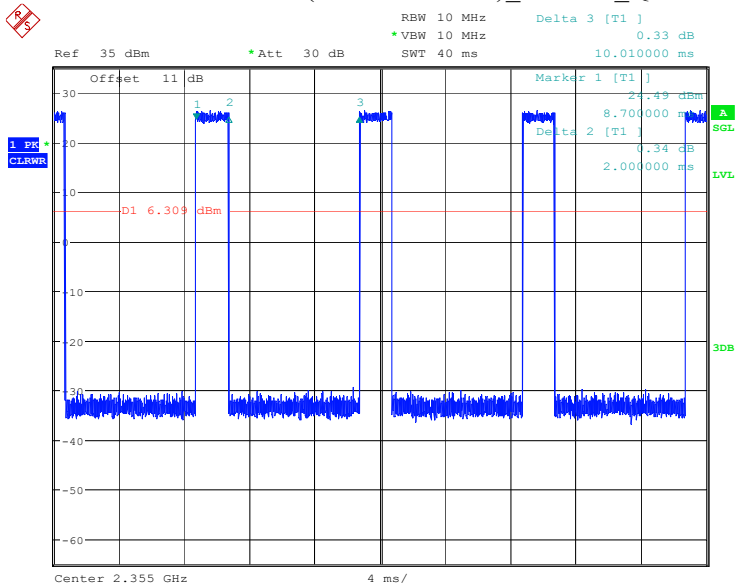
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LTE Band 40 (2350-2360MHz)_ 10MHz_ 16QAM



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 19.FEB.2024 15:46:33

LTE Band 40 (2350-2360MHz)_ 10MHz_ QPSK



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 19.FEB.2024 15:46:51

FCC §2.1049, §22.917, §22.905 & §24.238&§27.53 - OCCUPIED BANDWIDTH

Applicable Standard

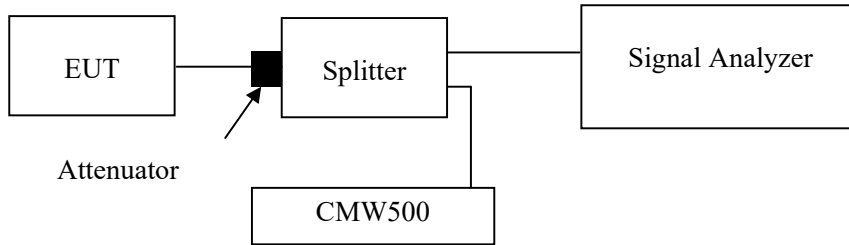
FCC 47 §2.1049, §22.917, §22.905, §24.238 and §27.53.

Test Procedure

ANSI C63.26-2015 Section 5.4.4

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 1% to 5% of the anticipated emission bandwidth and the 26 dB & 99% bandwidth was recorded.



Test Data

Environmental Conditions

Temperature:	23.1-24.3 °C
Relative Humidity:	42-55 %
ATM Pressure:	101 kPa

The testing was performed by Cheeb Huang from 2024-02-07 to 2024-03-19.

EUT operation mode: Transmitting

Test Result: Compliant

Please refer to the following tables and plots.

Cellular Band (Part 22H)

GSM 850

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
GSM	0.247	0.310
EDGE	0.245	0.305

WCDMA B5

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
WCDMA R99	4.18	4.81
HSDPA	4.22	5.61
HSUPA	4.22	5.96

PCS Band (Part 24E)

PCS 1900

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
GSM	0.246	0.315
EDGE	0.254	0.308

WCDMA B2

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
WCDMA R99	4.14	4.71
HSDPA	4.20	5.56
HSUPA	4.25	5.78

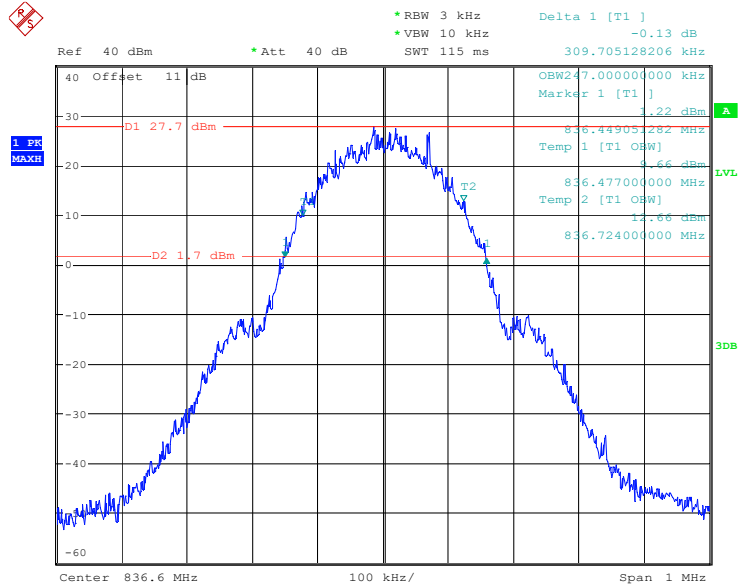
AWS Band

WCDMA B4

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
WCDMA R99	4.14	4.70
HSDPA	4.21	5.75
HSUPA	4.21	4.75

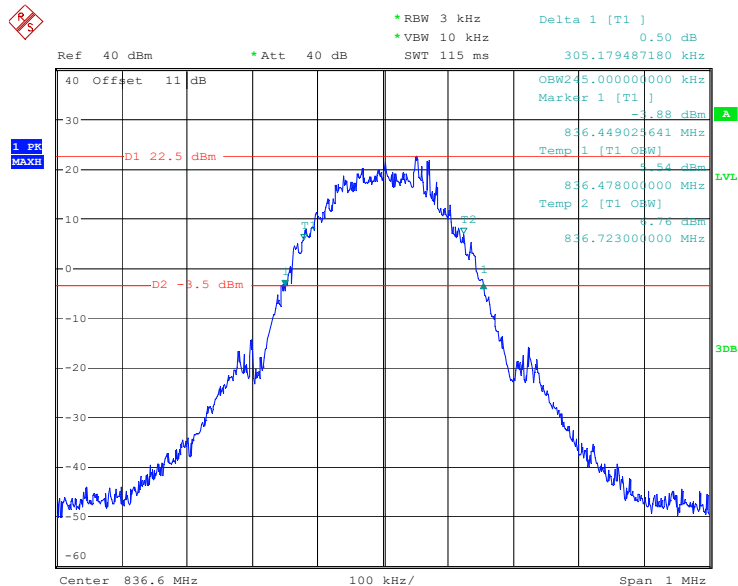
Cellular Band

GSM(GMSK) Mode, Middle channel



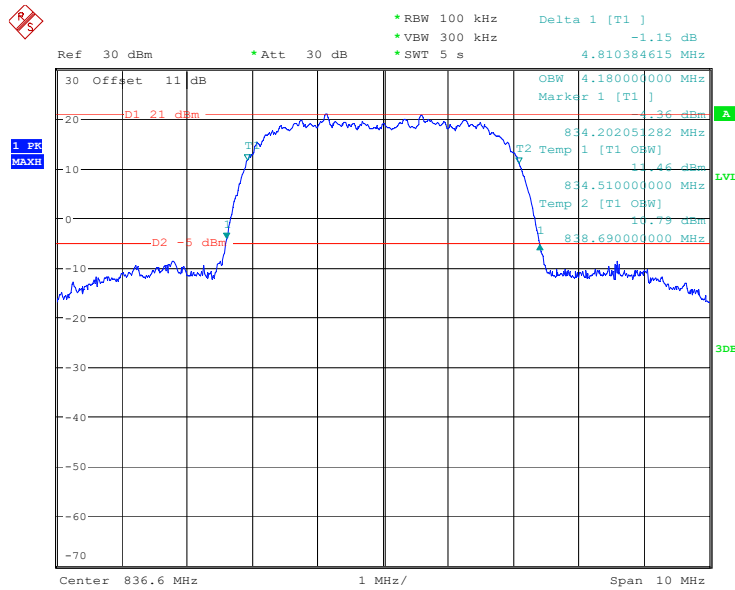
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
 Date: 7.FEB.2024 13:13:34

EDGE(8PSK) Mode, Middle channel



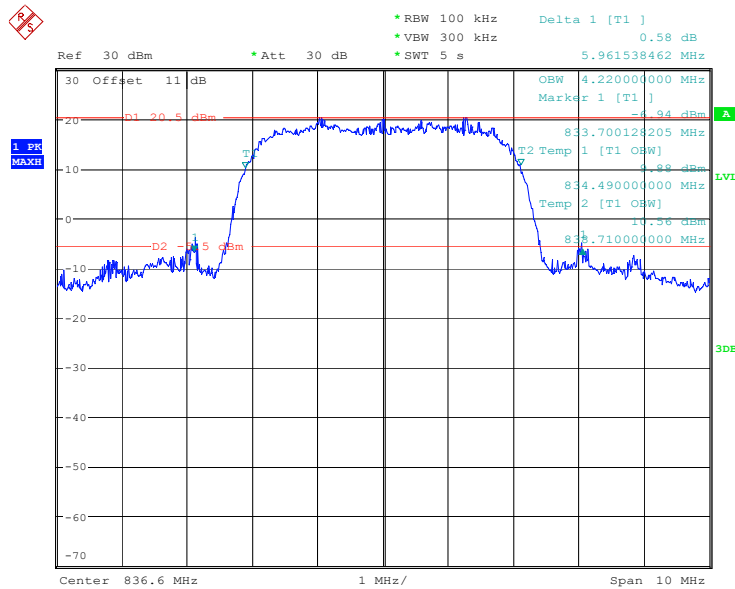
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
 Date: 7.FEB.2024 13:51:05

RMC (BPSK) Mode, Middle channel



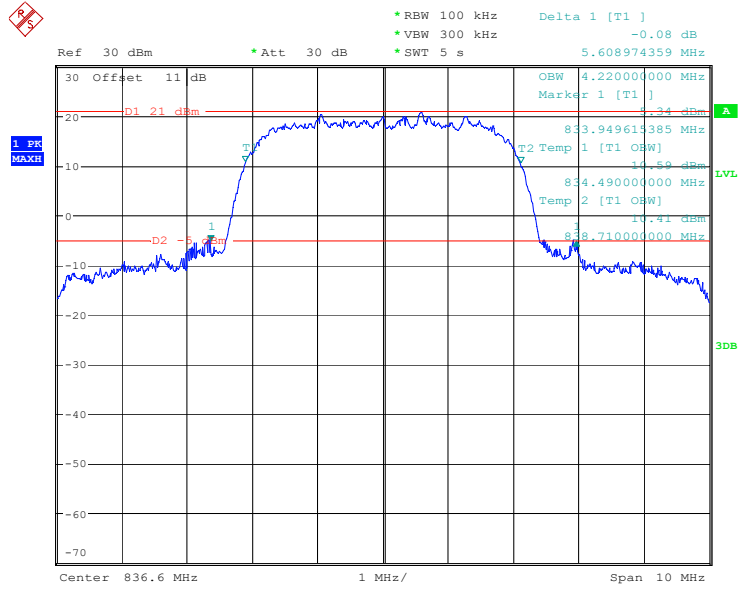
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
 Date: 7.FEB.2024 15:59:24

HSUPA (QPSK) Mode, Middle channel



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
 Date: 7.FEB.2024 16:33:37

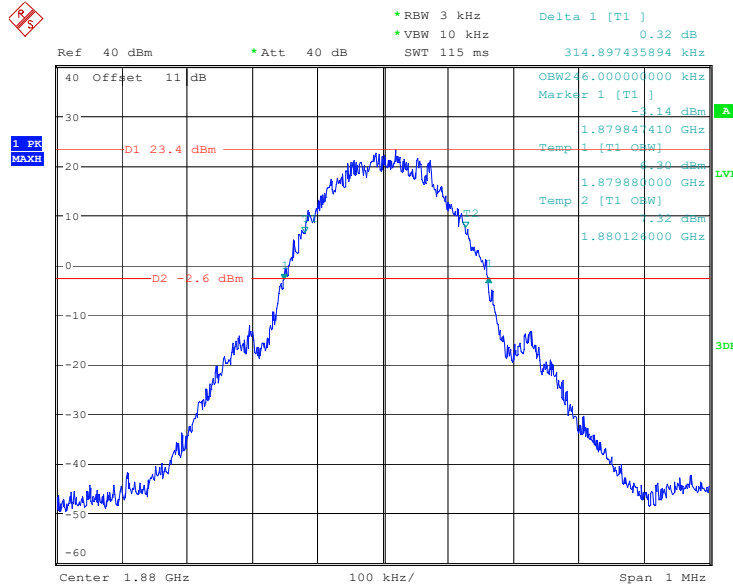
HSDPA (16QAM) Mode, Middle channel



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 16:16:40

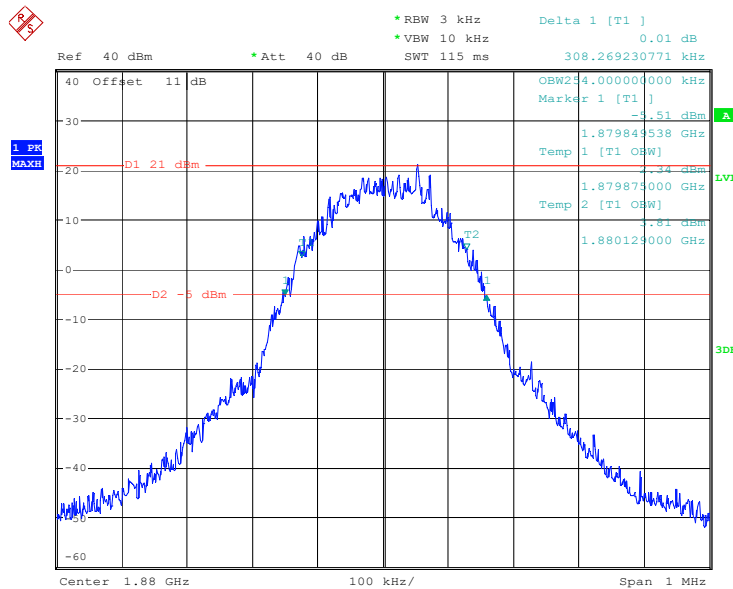
PCS Band

GSM(GMSK) Mode, Middle channel



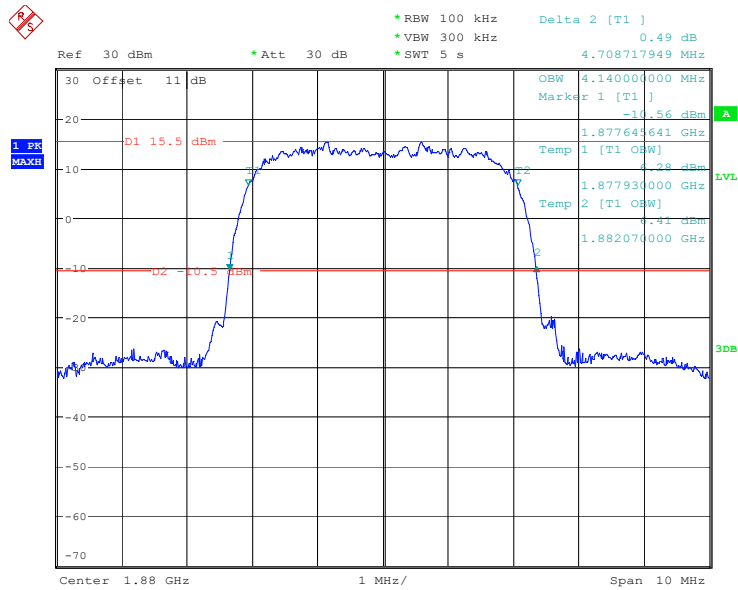
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
 Date: 7.FEB.2024 14:03:12

EDGE(8PSK) Mode, Middle channel



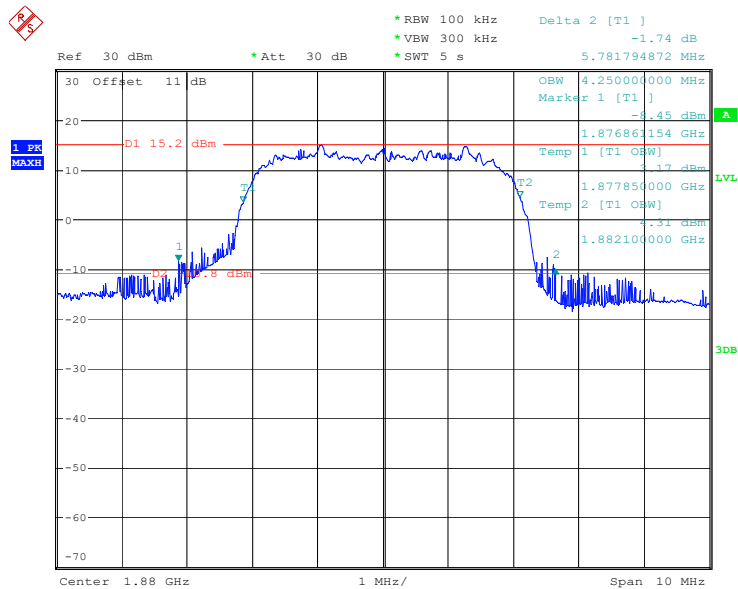
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
 Date: 7.FEB.2024 14:30:08

RMC (BPSK) Mode, Middle channel



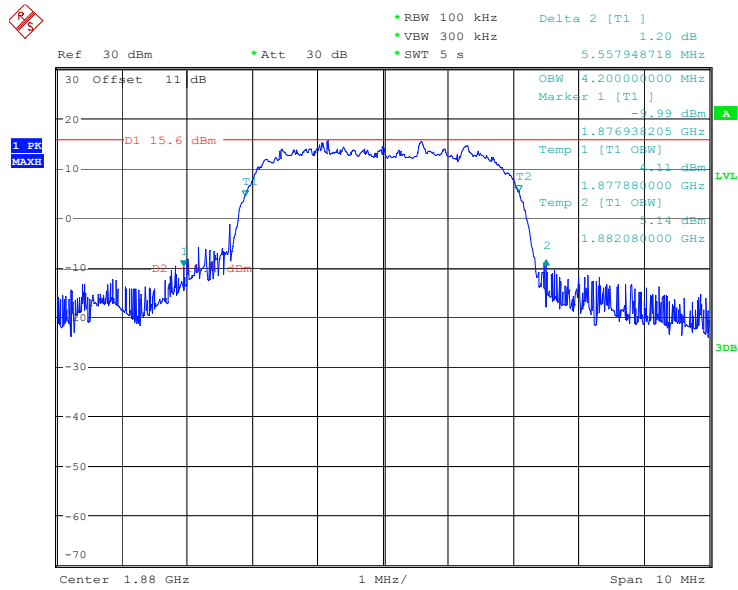
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
 Date: 6.MAR.2024 03:07:14

HSUPA (QPSK) Mode, Middle channel



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
 Date: 6.MAR.2024 03:29:29

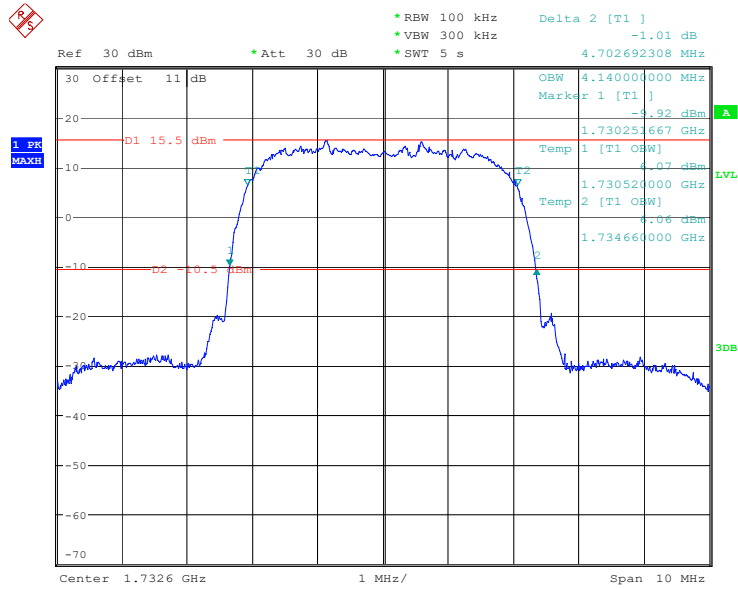
HSDPA (16QAM) Mode, Middle channel



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:18:16

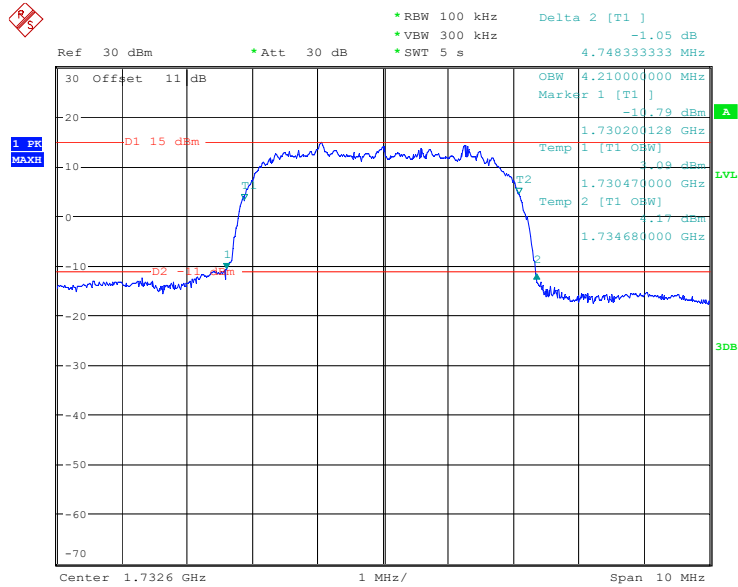
AWS Band

RMC (BPSK) Mode, Middle channel



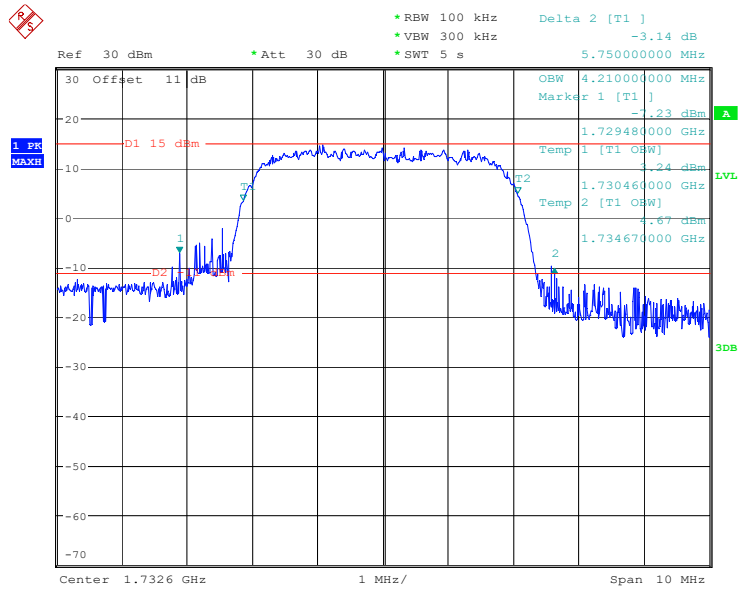
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
 Date: 6.MAR.2024 04:19:22

HSUPA (QPSK) Mode, Middle channel



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
 Date: 6.MAR.2024 03:43:11

HSDPA (16QAM) Mode, Middle channel



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:02:06

LTE Band**Band 2**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
1.4MHz QPSK	1.11	1.32
1.4MHz 16QAM	1.098	1.302
1.4MHz 64QAM	1.106	1.323
3MHz QPSK	2.687	2.88
3MHz 16QAM	2.687	2.928
3MHz 64QAM	2.692	2.881
5MHz QPSK	4.52	5
5MHz 16QAM	4.52	4.96
5MHz 64QAM	4.519	4.971
10MHz QPSK	8.96	9.72
10MHz 16QAM	8.96	9.68
10MHz 64QAM	8.974	9.663
15MHz QPSK	13.56	14.94
15MHz 16QAM	13.56	14.88
15MHz 64QAM	13.51	14.868
20MHz QPSK	18	19
20MHz 16QAM	18	19
20MHz 64QAM	18.01	19.41

Band 4

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
1.4MHz QPSK	1.11	1.37
1.4MHz 16QAM	1.098	1.296
1.4MHz 64QAM	1.106	1.316
3MHz QPSK	2.687	2.904
3MHz 16QAM	2.687	2.904
3MHz 64QAM	2.692	2.884
5MHz QPSK	4.52	5.06
5MHz 16QAM	4.52	5
5MHz 64QAM	4.519	4.996
10MHz QPSK	8.96	9.72
10MHz 16QAM	8.96	9.64
10MHz 64QAM	8.974	9.698
15MHz QPSK	13.56	15
15MHz 16QAM	13.56	14.76
15MHz 64QAM	13.51	14.833
20MHz QPSK	17.92	19.44
20MHz 16QAM	18	19
20MHz 64QAM	17.949	19.538

Band 5

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
1.4MHz QPSK	1.11	1.35
1.4MHz 16QAM	1.11	1.32
1.4MHz 64QAM	1.106	1.334
3MHz QPSK	2.687	2.916
3MHz 16QAM	2.687	2.892
3MHz 64QAM	2.683	2.884
5MHz QPSK	4.52	4.98
5MHz 16QAM	4.54	4.98
5MHz 64QAM	4.52	4.997
10MHz QPSK	8.96	9.64
10MHz 16QAM	8.96	9.56
10MHz 64QAM	8.974	9.715

Band 7

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.52	4.98
5MHz 16QAM	4.52	4.94
5MHz 64QAM	4.503	5
10MHz QPSK	9	10
10MHz 16QAM	8.96	9.76
10MHz 64QAM	8.942	9.609
15MHz QPSK	13.5	14.9
15MHz 16QAM	13.5	14.8
15MHz 64QAM	13.51	14.885
20MHz QPSK	18	19
20MHz 16QAM	18	19
20MHz 64QAM	17.949	19.526

Band 12

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
1.4MHz QPSK	1.104	1.302
1.4MHz 16QAM	1.098	1.308
1.4MHz 64QAM	1.106	1.327
3MHz QPSK	2.687	2.904
3MHz 16QAM	2.7	2.9
3MHz 64QAM	2.683	2.877
5MHz QPSK	4.52	4.96
5MHz 16QAM	4.52	5
5MHz 64QAM	4.503	4.98
10MHz QPSK	8.96	9.6
10MHz 16QAM	9	10
10MHz 64QAM	8.942	9.609

Band 13

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.52	5
5MHz 16QAM	4.52	4.98
5MHz 64QAM	4.519	4.99
10MHz QPSK	8.96	9.64
10MHz 16QAM	8.96	9.64
10MHz 64QAM	8.94	9.63

Band 17

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.54	5
5MHz 16QAM	4.52	4.98
5MHz 64QAM	4.52	5
10MHz QPSK	8.96	9.6
10MHz 16QAM	8.96	9.68
10MHz 64QAM	8.97	9.67

Band 38

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.52	5.32
5MHz 16QAM	4.5	5
5MHz 64QAM	4.52	5
10MHz QPSK	8.96	9.96
10MHz 16QAM	8.96	9.56
10MHz 64QAM	8.97	9.83
15MHz QPSK	13.5	15.4
15MHz 16QAM	13.56	15.42
15MHz 64QAM	13.51	15.52
20MHz QPSK	18	19
20MHz 16QAM	18	20
20MHz 64QAM	18.01	19.42

Band 40

LTE Band 40 Lower:		
Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle channel
5MHz QPSK	4.52	4.98
5MHz 16QAM	4.5	5
5MHz 64QAM	4.52	5.04
10MHz QPSK	8.96	9.88
10MHz 16QAM	8.96	9.56
10MHz 64QAM	8.94	9.68
LTE Band 40 Upper:		
Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle channel
5MHz QPSK	4.52	5.24
5MHz 16QAM	4.52	4.98
5MHz 64QAM	4.5	4.98
10MHz QPSK	8.96	9.96
10MHz 16QAM	8.96	9.56
10MHz 64QAM	8.94	9.7

Band 41

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.54	5.08
5MHz 16QAM	4.5	5
5MHz 64QAM	4.5	4.95
10MHz QPSK	8.96	9.56
10MHz 16QAM	8.96	9.6
10MHz 64QAM	8.94	9.88
15MHz QPSK	13.56	15.9
15MHz 16QAM	13.62	15.78
15MHz 64QAM	13.51	15.44
20MHz QPSK	18	19
20MHz 16QAM	18	20
20MHz 64QAM	17.95	19.46

Band 42

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.5	5
5MHz 16QAM	4.5	5
5MHz 64QAM	4.5	4.95
10MHz QPSK	8.96	9.6
10MHz 16QAM	8.96	9.64
10MHz 64QAM	8.97	9.9
15MHz QPSK	13.56	15.18
15MHz 16QAM	13.5	14.9
15MHz 64QAM	13.51	15.96
20MHz QPSK	18	20
20MHz 16QAM	18	21
20MHz 64QAM	18.01	19.46

Band 66

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle Channel	Middle Channel
1.4MHz QPSK	1.104	1.314
1.4MHz 16QAM	1.098	1.302
1.4MHz 64QAM	1.11	1.31
3MHz QPSK	2.687	2.904
3MHz 16QAM	2.687	2.916
3MHz 64QAM	2.69	2.89
5MHz QPSK	4.5	5
5MHz 16QAM	4.5	5
5MHz 64QAM	4.52	5.04
10MHz QPSK	9	10
10MHz 16QAM	8.96	9.64
10MHz 64QAM	8.94	9.63
15MHz QPSK	13.5	15
15MHz 16QAM	13.56	14.76
15MHz 64QAM	13.51	14.91
20MHz QPSK	18	20
20MHz 16QAM	18	19
20MHz 64QAM	17.95	19.41

The test plots of LTE band please refer to the Appendix A.

FCC §2.1051, §22.917(a) & §24.238(a) & §27.53 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard

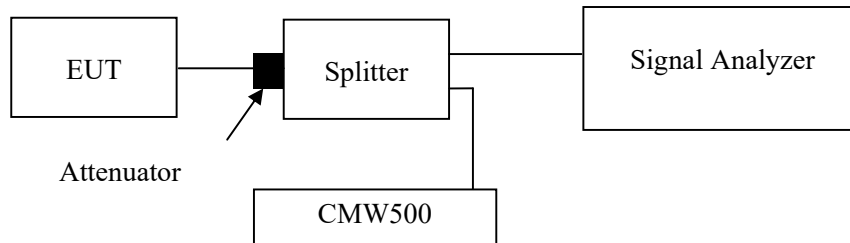
FCC §2.1051, §22.917(a) & §24.238(a) & §27.53.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

Test Procedure

ANSI C63.26-2015 Section 5.7

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



Note: the worst path loss (cable loss and splitter inset loss) among the test frequency range was added into plots.

Test Data

Environmental Conditions

Temperature:	23.1-24.3 °C
Relative Humidity:	42-55 %
ATM Pressure:	101 kPa

The testing was performed by Cheeb Huang from 2024-02-07 to 2024-03-06.

EUT operation mode: Transmitting

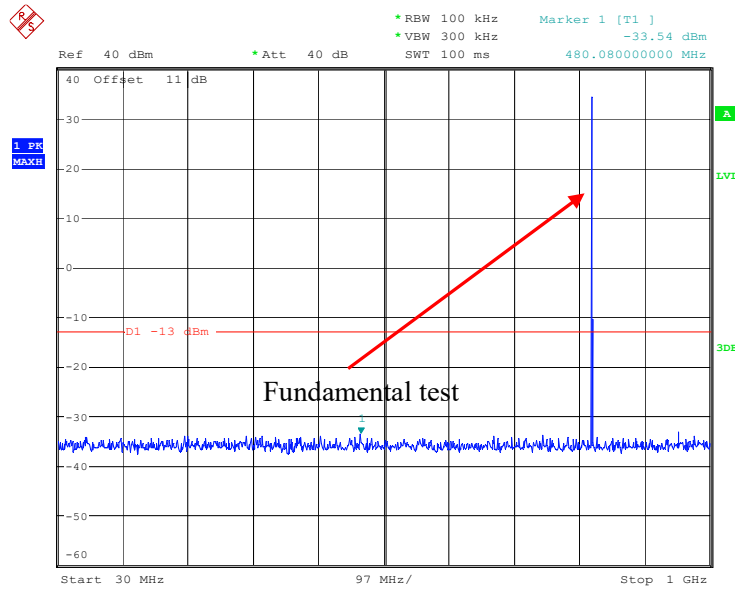
Test result: Compliant

Please refer to the following plots.

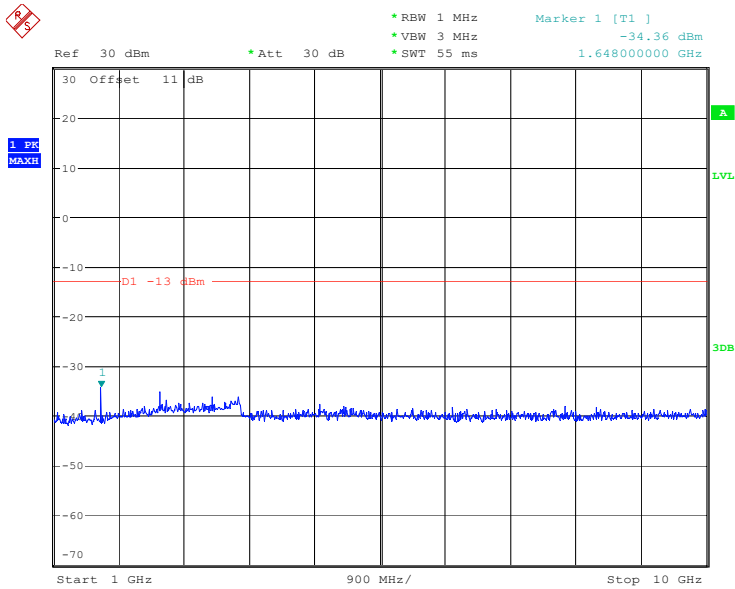
Cellular Band

Low Channel:

30 MHz – 10GHz (GSM Mode)



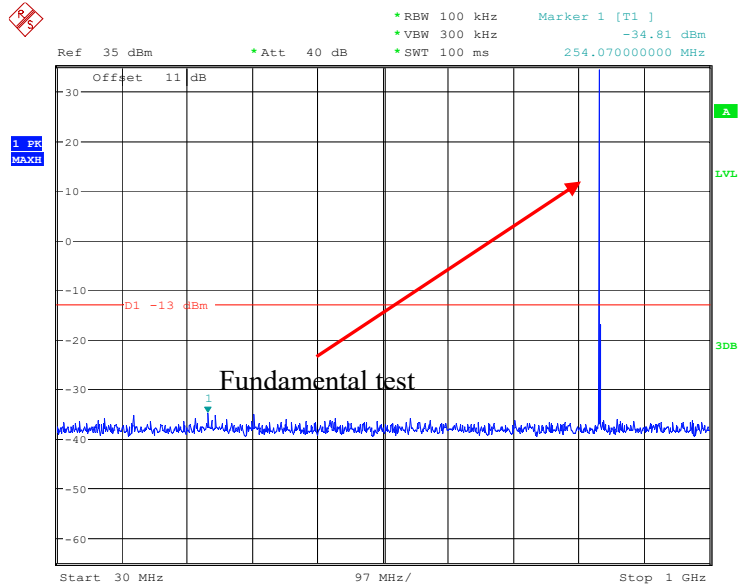
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 13:09:09



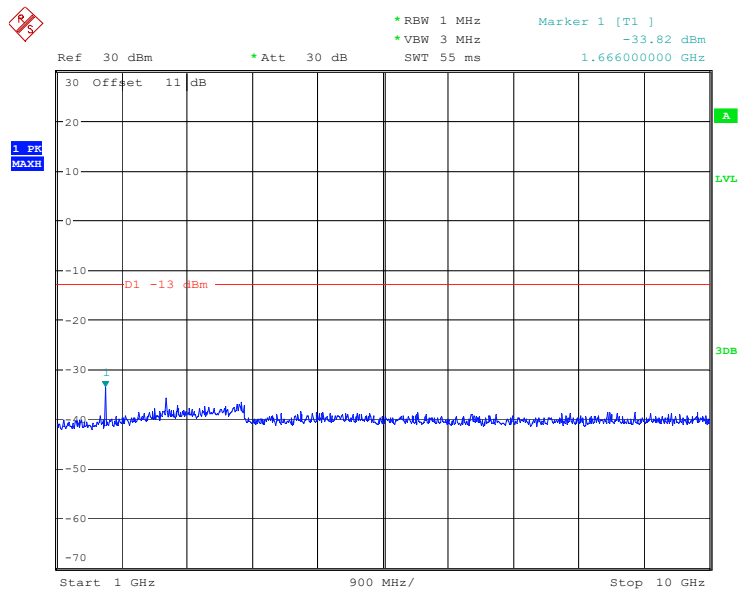
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 13:09:39

Middle Channel:

30 MHz – 10GHz (GSM Mode)



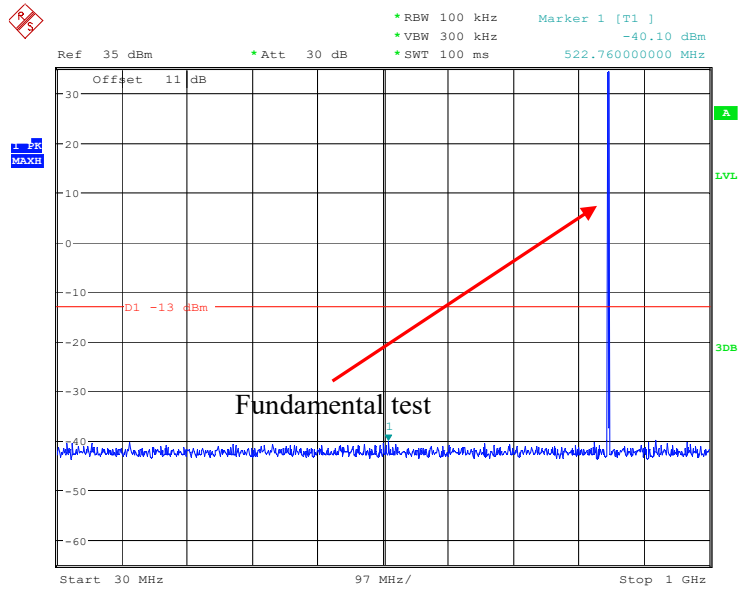
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 13:14:17



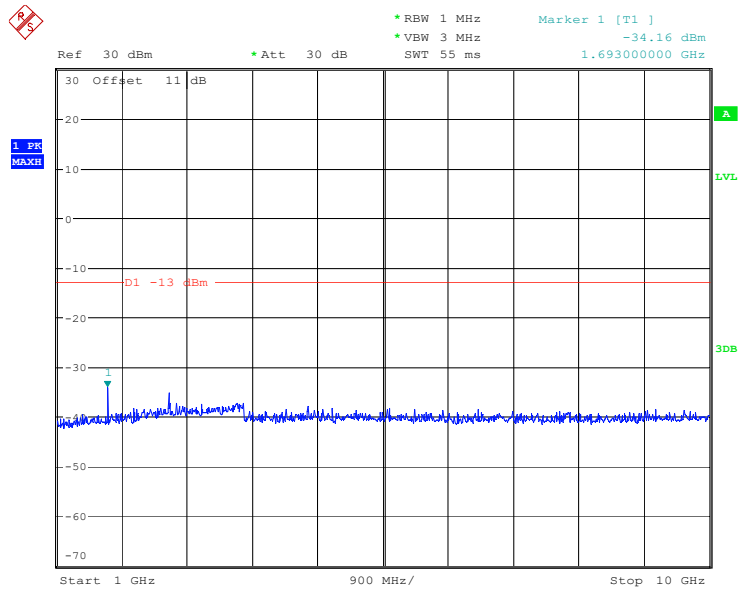
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 13:14:37

High Channel:

30 MHz – 10GHz (GSM Mode)



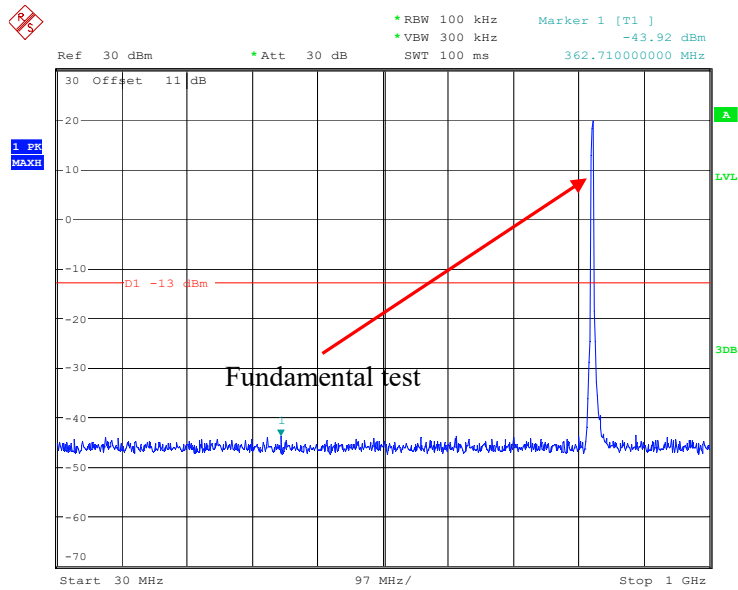
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Date: 7.FEB.2024 13:18:54



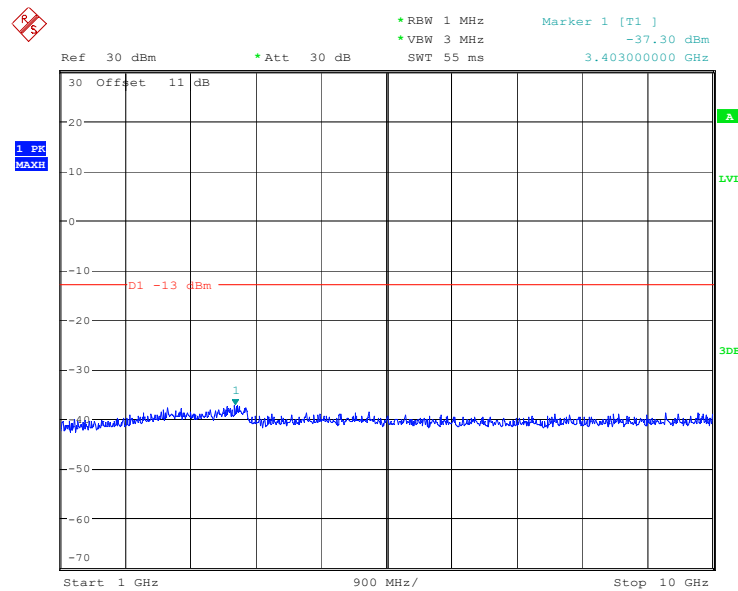
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 13:19:13

Low Channel:

30 MHz – 10GHz (WCDMA Mode)



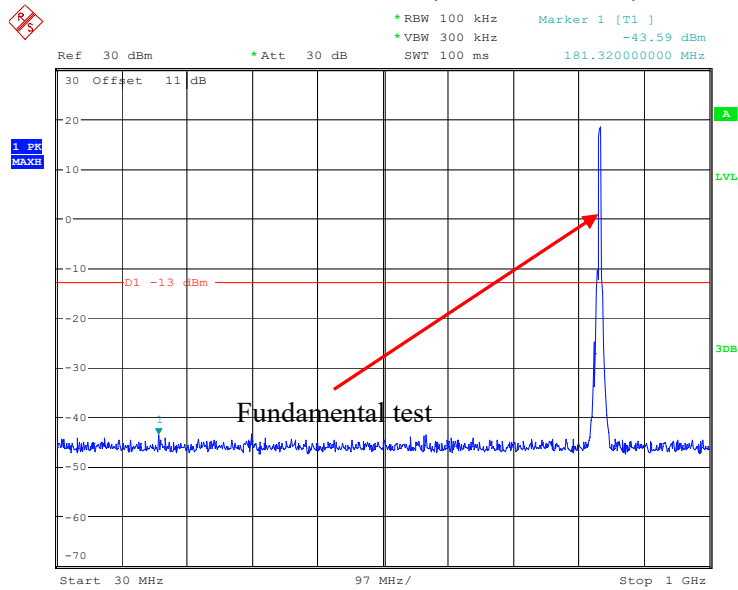
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Date: 7.FEB.2024 15:57:04



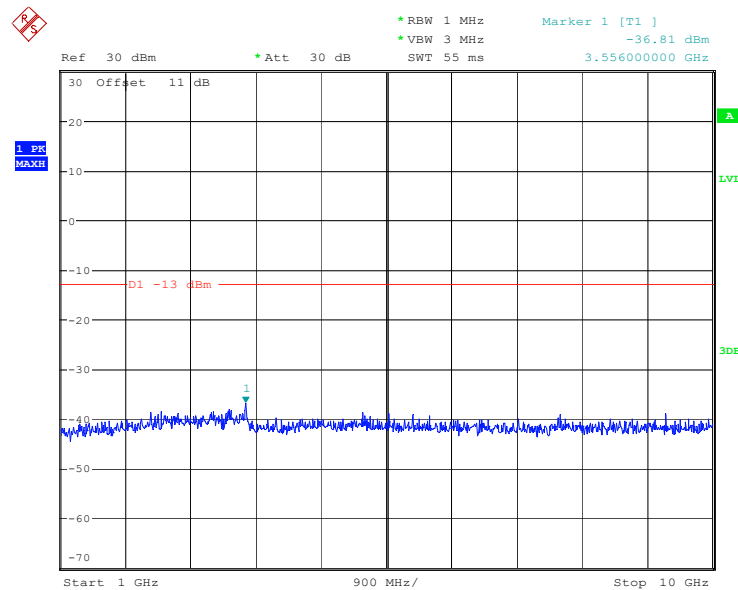
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Date: 7.FEB.2024 15:57:21

Middle Channel:

30 MHz – 10GHz (WCDMA Mode)



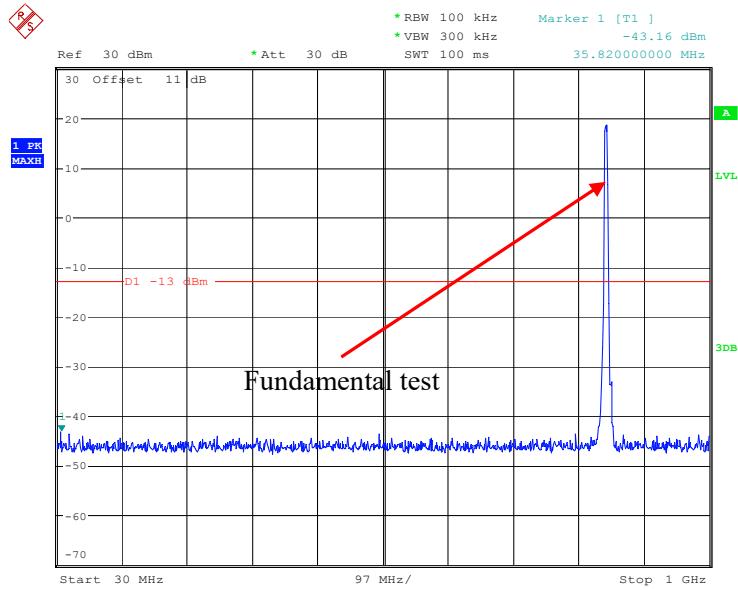
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 16:00:05



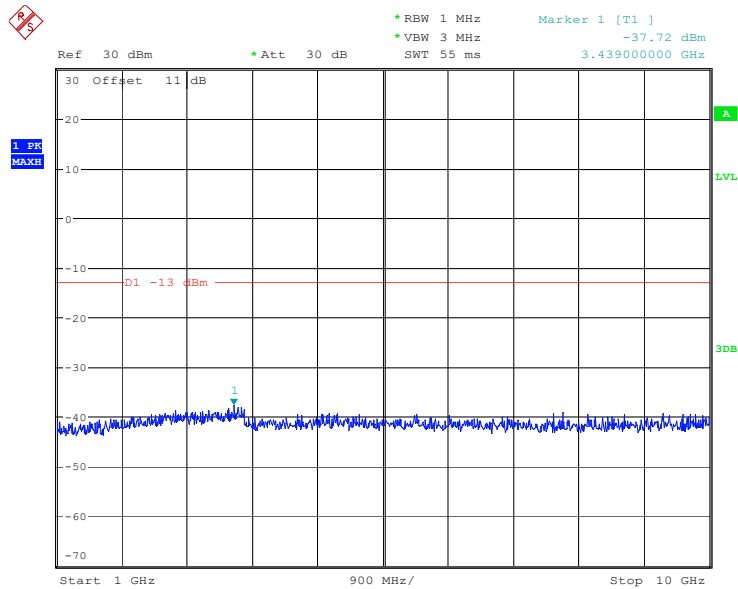
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 16:00:12

High Channel:

30 MHz – 10GHz RMC (WCDMA Mode)



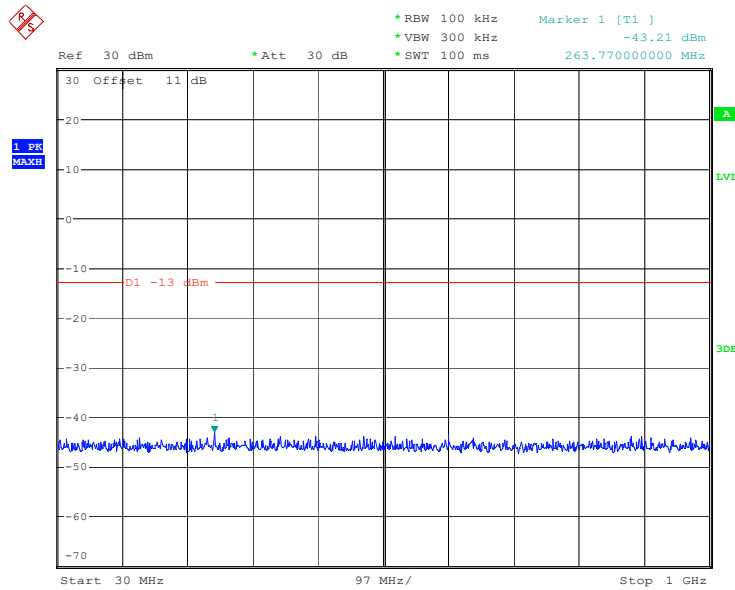
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 16:02:32



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 16:02:41

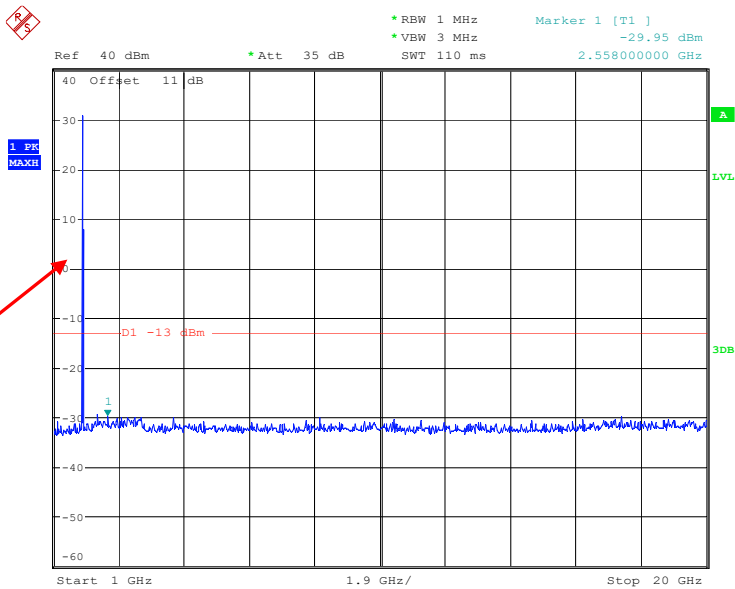
PCS Band
Low Channel:

30 MHz – 1GHz (GSM Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 14:11:27

1 GHz – 20GHz (GSM Mode)

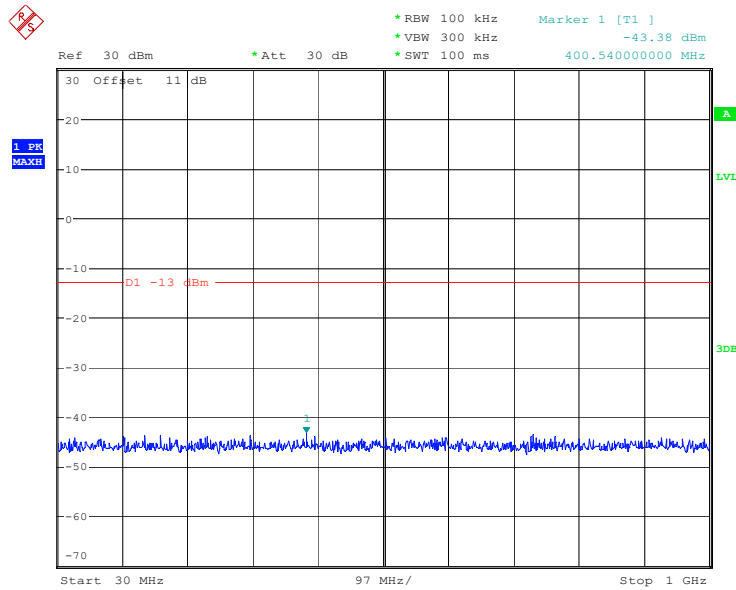


Fundamental test

ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 14:12:00

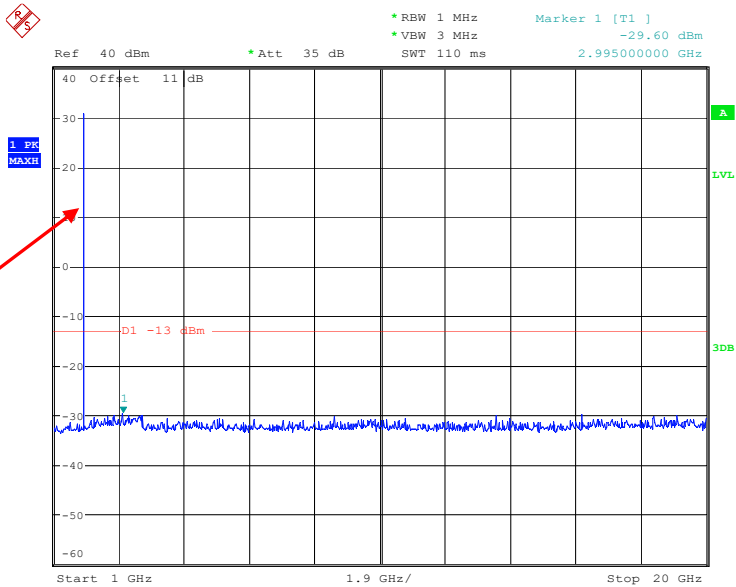
Middle Channel:

30 MHz – 1GHz (GSM Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 14:03:31

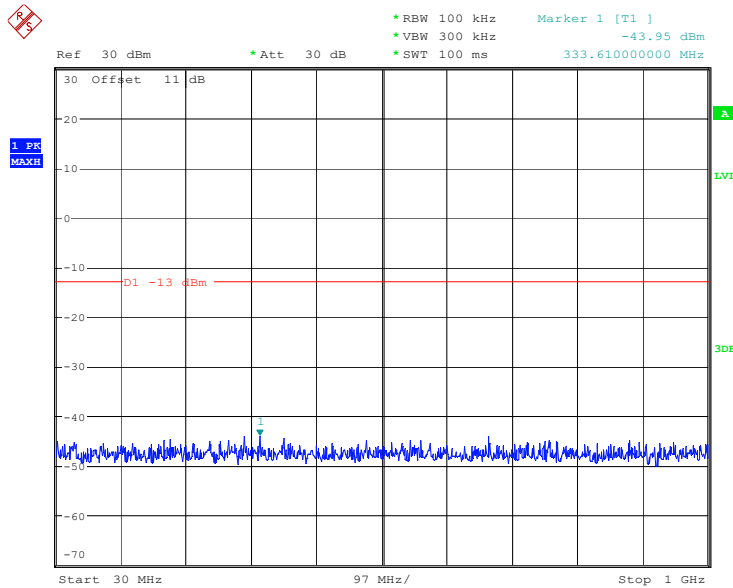
1 GHz – 20GHz (GSM Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 14:03:55

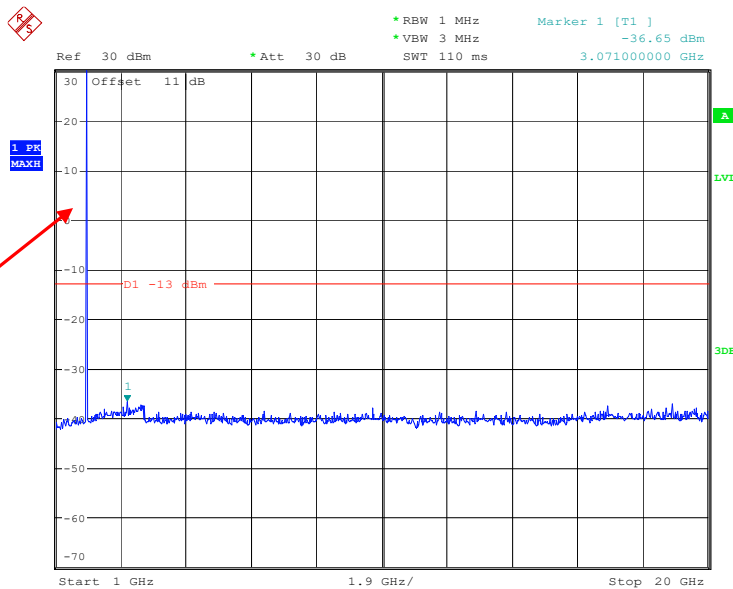
High Channel:

30 MHz – 1GHz (GSM Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 14:13:36

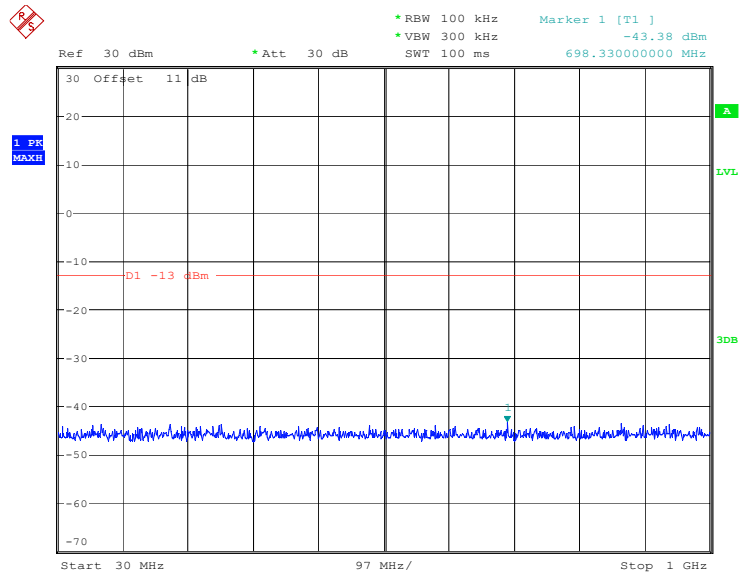
1 GHz – 20GHz (GSM Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 14:14:05

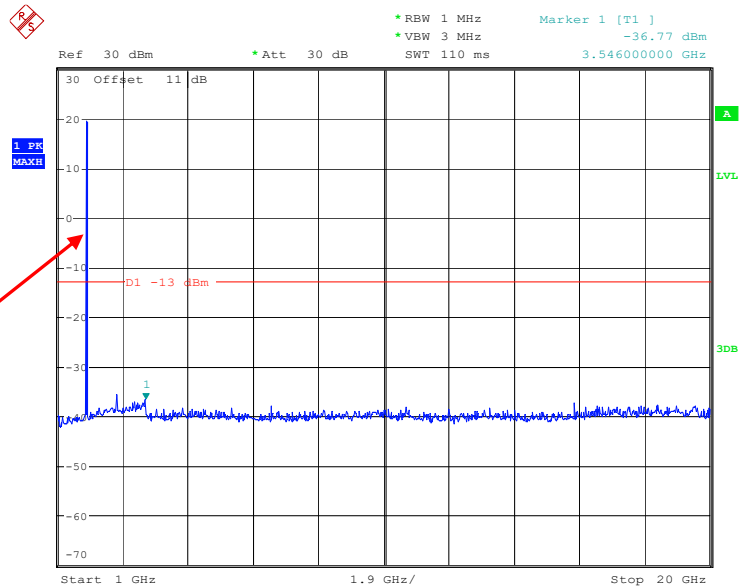
Low Channel:

30 MHz – 1GHz (WCDMA Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:04:03

1 GHz – 20GHz (WCDMA Mode)

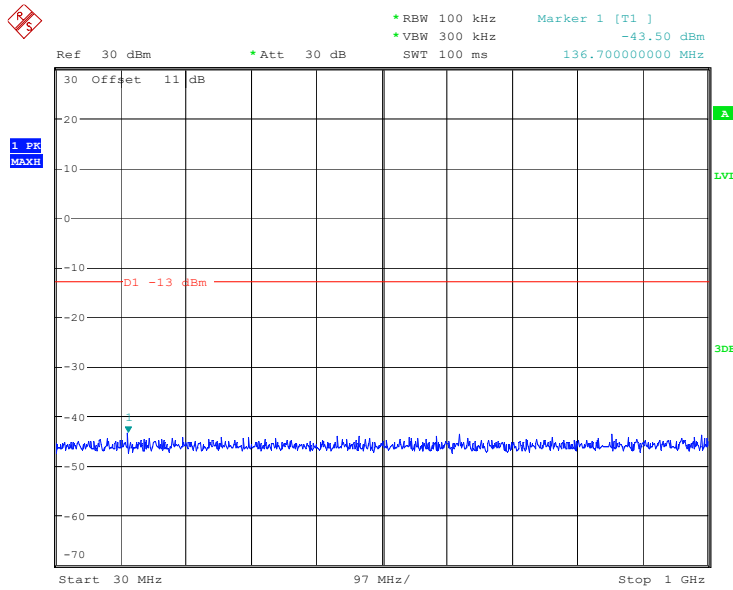


Fundamental test

ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:04:33

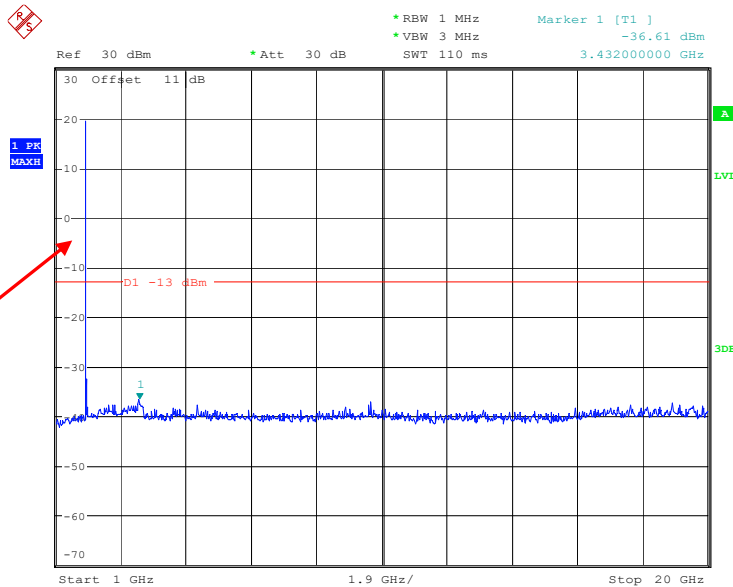
Middle Channel:

30 MHz – 1GHz (WCDMA Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:07:36

1 GHz – 20GHz (WCDMA Mode)

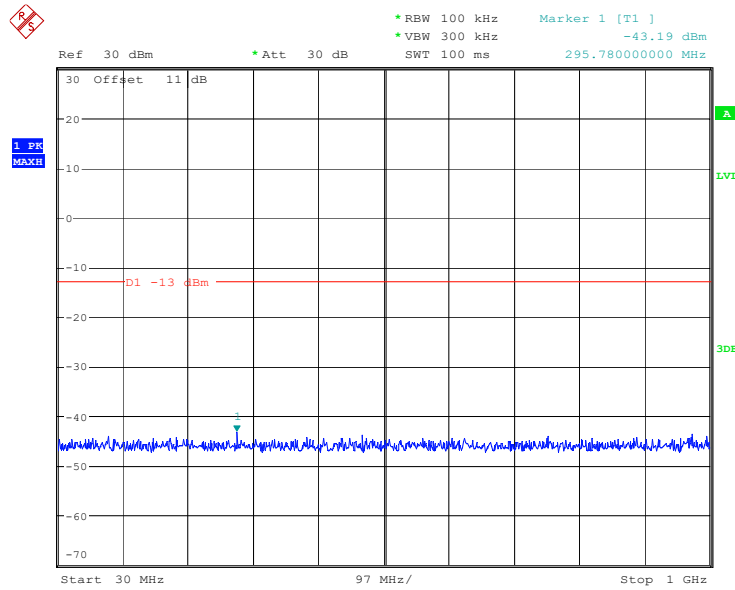


Fundamental test

ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:09:17

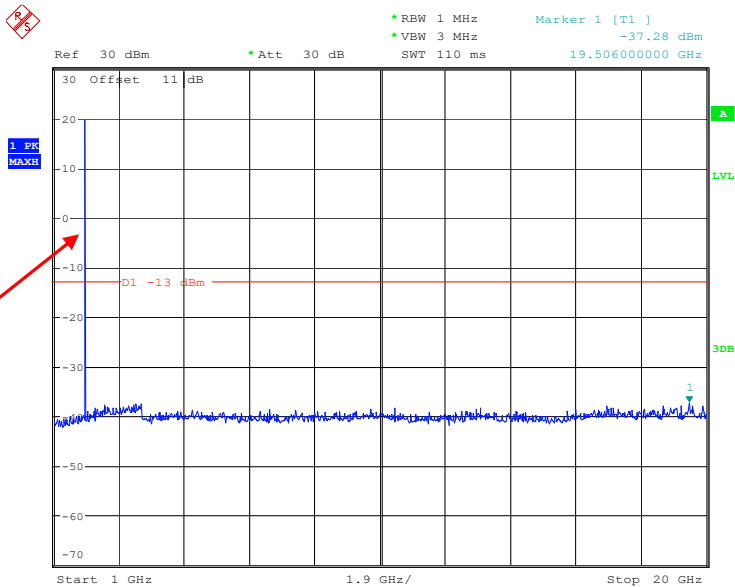
High Channel:

30 MHz – 1GHz (WCDMA Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:11:04

1 GHz – 20GHz (WCDMA Mode)



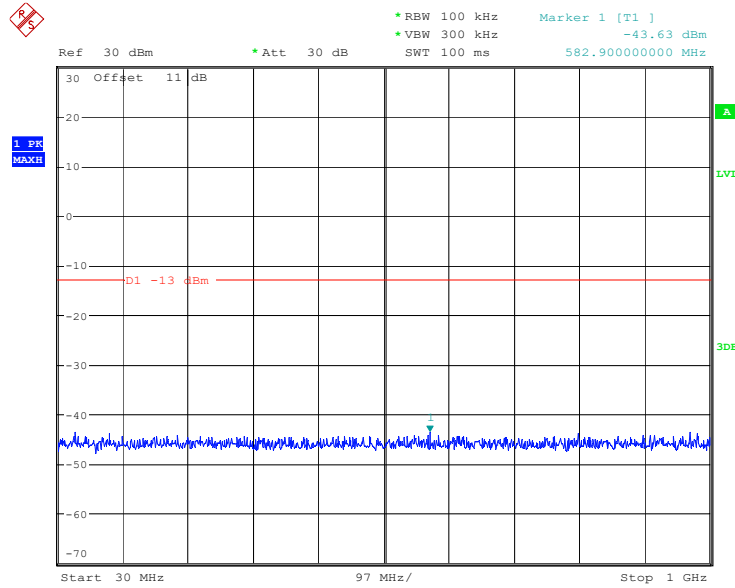
Fundamental test

ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:11:27

AWS Band

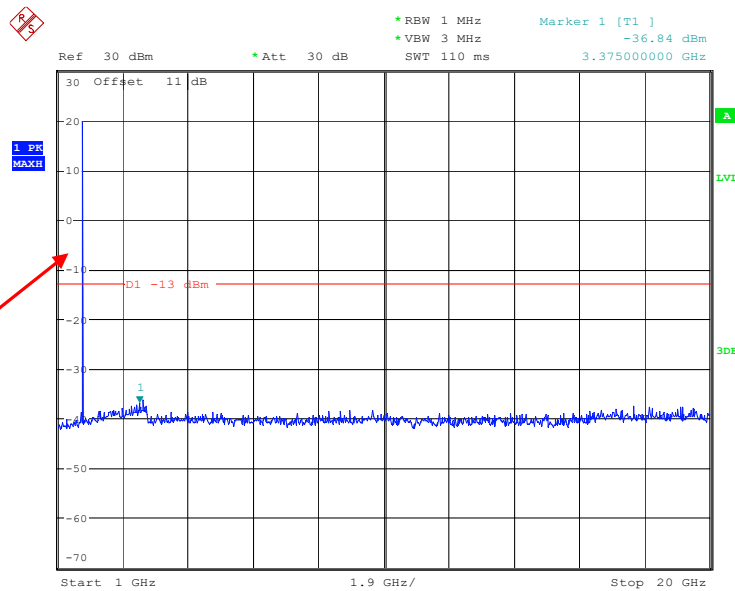
Low Channel:

30 MHz – 1GHz (WCDMA Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:23:59

1 GHz – 20GHz (WCDMA Mode)

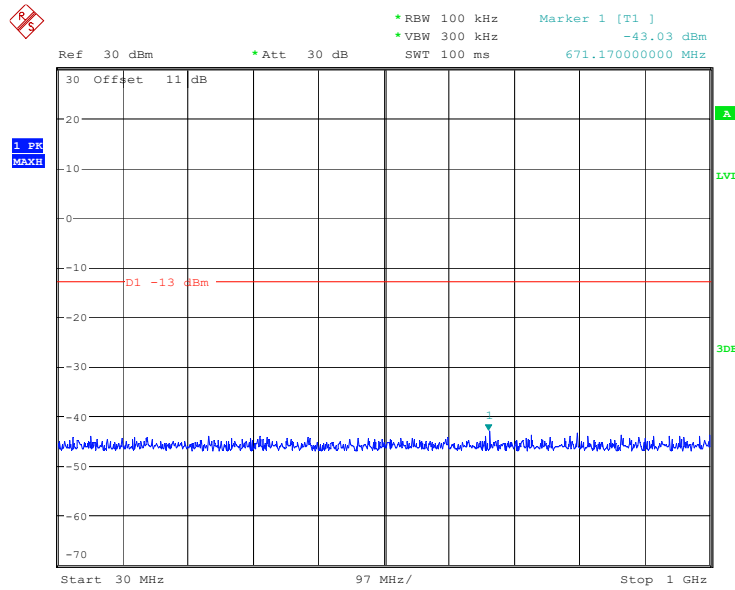


Fundamental test

ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:24:40

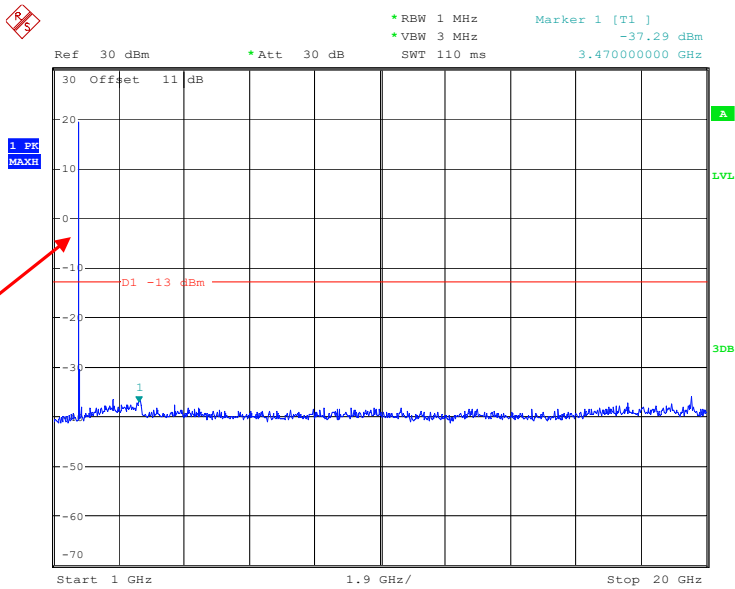
Middle Channel:

30 MHz – 1GHz (WCDMA Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:19:44

1 GHz – 20GHz (WCDMA Mode)

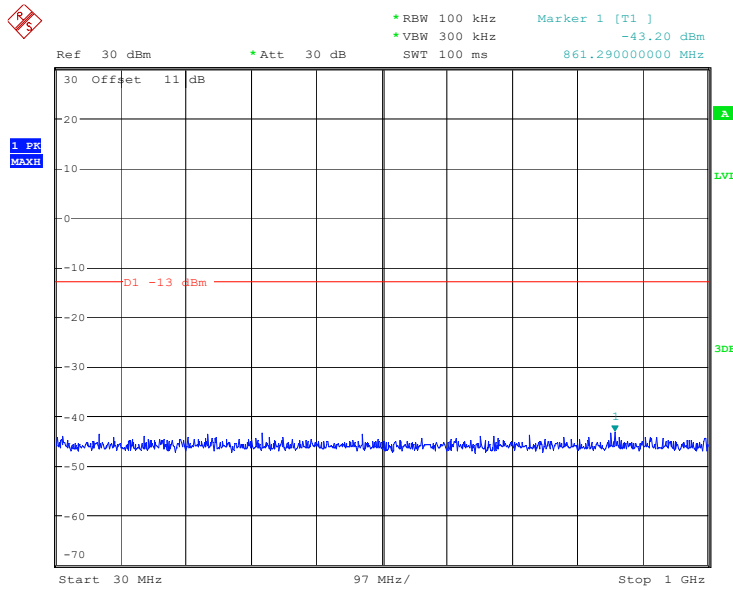


Fundamental test

ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:20:36

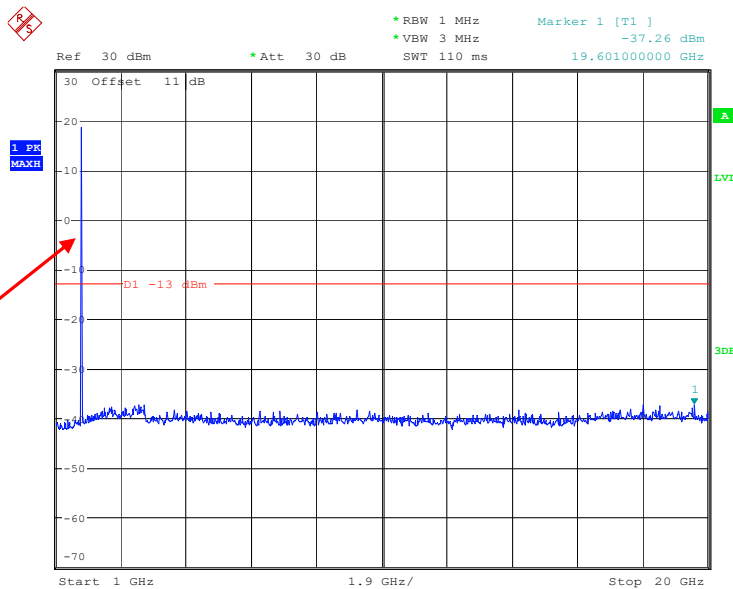
High Channel:

30 MHz – 1GHz (WCDMA Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:16:31

1 GHz – 20GHz (WCDMA Mode)



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:17:04

The test plots of LTE band please refer to the Appendix B.

FCC § 2.1053; § 22.917 (a); § 24.238 (a); §27.53 - SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, §22.917(a)& § 24.238(a) & § 27.53.

Test Procedure

ANSI/TIA-603-E-2016 Section 2.2.12
KDB 671168 D01 v03r01 Section 6.2

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving 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.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	50 %
ATM Pressure:	101 kPa

The testing was performed by Zenos Qiao on 2024-02-20 .

EUT operation mode: Transmitting (Pre-scan in the X, Y and Z axes of orientation, the worst case Y-axis of orientation was recorded)

Note: The radiated spurious emission data of below 1GHz is 20dB below the limit which was not recorded.

ANT 0:

Frequency (MHz)	Receiver Reading (dBµV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
GSM 850 (30MHz-10GHz)								
Low Channel								
1648.40	48.64	H	-59.0	0.90	8.60	-51.30	-13	38.30
1648.40	48.05	V	-60.1	0.90	8.60	-52.40	-13	39.40
2472.60	58.48	H	-48.9	1.10	8.80	-41.20	-13	28.20
2472.60	57.73	V	-49.4	1.10	8.80	-41.70	-13	28.70
3296.80	47.21	H	-58.8	1.30	8.80	-51.30	-13	38.30
3296.80	47.89	V	-57.8	1.30	8.80	-50.30	-13	37.30
Middle Channel								
1673.20	49.18	H	-58.4	0.90	8.60	-50.70	-13	37.70
1673.20	48.57	V	-59.6	0.90	8.60	-51.90	-13	38.90
2509.80	59.29	H	-48.1	1.10	8.80	-40.40	-13	27.40
2509.80	58.36	V	-48.8	1.10	8.80	-41.10	-13	28.10
3346.40	47.54	H	-58.4	1.30	8.80	-50.90	-13	37.90
3346.40	48.02	V	-57.7	1.30	8.80	-50.20	-13	37.20
High Channel								
1697.60	50.32	H	-57.2	0.90	8.60	-49.50	-13	36.50
1697.60	49.55	V	-58.6	0.90	8.60	-50.90	-13	37.90
2546.40	60.46	H	-46.9	1.10	8.80	-39.20	-13	26.20
2546.40	59.68	V	-47.4	1.10	8.80	-39.70	-13	26.70
3395.20	47.91	H	-58.1	1.30	9.90	-49.50	-13	36.50
3395.20	48.73	V	-56.9	1.30	9.90	-48.30	-13	35.30
PCS 1900 (30MHz-20GHz)								
Low Channel								
3700.40	47.19	H	-58.2	1.30	11.00	-48.50	-13	35.50
3700.40	47.84	V	-57.4	1.30	11.00	-47.70	-13	34.70
Middle Channel								
3760.00	47.68	H	-57.5	1.30	10.70	-48.10	-13	35.10
3760.00	48.25	V	-56.8	1.30	10.70	-47.40	-13	34.40
High Channel								
3819.60	48.37	H	-56.8	1.30	10.70	-47.40	-13	34.40
3819.60	49.06	V	-56.0	1.30	10.70	-46.60	-13	33.60

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
WCDMA Band 2 (30MHz-20GHz)								
Low Channel								
3704.80	47.45	H	-58.0	1.30	11.00	-48.30	-13	35.30
3704.80	47.24	V	-58.0	1.30	11.00	-48.30	-13	35.30
5557.20	46.37	H	-56.0	1.70	10.90	-46.80	-13	33.80
5557.20	46.96	V	-55.6	1.70	10.90	-46.40	-13	33.40
Middle Channel								
3760.00	47.79	H	-57.3	1.30	10.70	-47.90	-13	34.90
3760.00	47.61	V	-57.5	1.30	10.70	-48.10	-13	35.10
5640.00	46.87	H	-55.5	1.70	10.90	-46.30	-13	33.30
5640.00	47.32	V	-55.2	1.70	10.90	-46.00	-13	33.00
High Channel								
3815.20	48.54	H	-56.6	1.30	10.70	-47.20	-13	34.20
3815.20	48.31	V	-56.8	1.30	10.70	-47.40	-13	34.40
5722.80	47.29	H	-54.9	1.70	11.10	-45.50	-13	32.50
5722.80	47.68	V	-54.7	1.70	11.10	-45.30	-13	32.30
WCDMA Band 4 (30MHz-20GHz)								
Low Channel								
3424.80	47.32	H	-58.6	1.30	9.90	-50.00	-13	37.00
3424.80	47.55	V	-58.1	1.30	9.90	-49.50	-13	36.50
5137.20	47.18	H	-56.0	1.50	9.60	-47.90	-13	34.90
5137.20	46.84	V	-55.8	1.50	9.60	-47.70	-13	34.70
Middle Channel								
3465.20	47.66	H	-58.3	1.30	10.50	-49.10	-13	36.10
3465.20	47.89	V	-57.7	1.30	10.50	-48.50	-13	35.50
5197.80	47.57	H	-55.5	1.60	9.70	-47.40	-13	34.40
5197.80	47.28	V	-55.4	1.60	9.70	-47.30	-13	34.30
High Channel								
3505.20	48.09	H	-57.9	1.30	10.50	-48.70	-13	35.70
3505.20	48.64	V	-57.0	1.30	10.50	-47.80	-13	34.80
5257.80	47.91	H	-55.0	1.60	10.00	-46.60	-13	33.60
5257.80	47.52	V	-55.2	1.60	10.00	-46.80	-13	33.80

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
WCDMA Band 5 (30MHz-10GHz)								
Low Channel								
1652.80	49.68	H	-57.9	0.90	8.60	-50.20	-13	37.20
1652.80	49.05	V	-59.1	0.90	8.60	-51.40	-13	38.40
2479.20	52.94	H	-54.4	1.10	8.80	-46.70	-13	33.70
2479.20	52.27	V	-54.8	1.10	8.80	-47.10	-13	34.10
3305.60	46.79	H	-59.2	1.30	8.80	-51.70	-13	38.70
3305.60	46.32	V	-59.4	1.30	8.80	-51.90	-13	38.90
Middle Channel								
1673.20	50.12	H	-57.4	0.90	8.60	-49.70	-13	36.70
1673.20	49.54	V	-58.6	0.90	8.60	-50.90	-13	37.90
2509.80	53.77	H	-53.6	1.10	8.80	-45.90	-13	32.90
2509.80	52.95	V	-54.2	1.10	8.80	-46.50	-13	33.50
3346.40	47.06	H	-58.9	1.30	8.80	-51.40	-13	38.40
3346.40	46.61	V	-59.1	1.30	8.80	-51.60	-13	38.60
High Channel								
1693.20	50.75	H	-56.8	0.90	8.60	-49.10	-13	36.10
1693.20	50.12	V	-58.0	0.90	8.60	-50.30	-13	37.30
2539.80	54.69	H	-52.7	1.10	8.80	-45.00	-13	32.00
2539.80	53.83	V	-53.3	1.10	8.80	-45.60	-13	32.60
3386.40	48.24	H	-57.7	1.30	9.90	-49.10	-13	36.10
3386.40	47.57	V	-58.1	1.30	9.90	-49.50	-13	36.50

ANT 4

Frequency (MHz)	Receiver Reading (dBµV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
GSM 850 (30MHz-10GHz)								
Low Channel								
1648.40	56.96	H	-50.7	0.90	8.60	-43.00	-13	30.00
1648.40	57.75	V	-50.4	0.90	8.60	-42.70	-13	29.70
2472.60	63.32	H	-44.0	1.10	8.80	-36.30	-13	23.30
2472.60	62.47	V	-44.6	1.10	8.80	-36.90	-13	23.90
3296.80	47.28	H	-58.7	1.30	8.80	-51.20	-13	38.20
3296.80	47.84	V	-57.8	1.30	8.80	-50.30	-13	37.30
Middle Channel								
1673.20	57.88	H	-49.7	0.90	8.60	-42.00	-13	29.00
1673.20	58.61	V	-49.5	0.90	8.60	-41.80	-13	28.80
2509.80	64.27	H	-43.1	1.10	8.80	-35.40	-13	22.40
2509.80	63.15	V	-44.0	1.10	8.80	-36.30	-13	23.30
3346.40	47.86	H	-58.1	1.30	8.80	-50.60	-13	37.60
3346.40	48.39	V	-57.3	1.30	8.80	-49.80	-13	36.80
High Channel								
1697.60	58.68	H	-48.9	0.90	8.60	-41.20	-13	28.20
1697.60	59.55	V	-48.6	0.90	8.60	-40.90	-13	27.90
2546.40	65.36	H	-42.0	1.10	8.80	-34.30	-13	21.30
2546.40	64.29	V	-42.8	1.10	8.80	-35.10	-13	22.10
3395.20	48.43	H	-57.5	1.30	9.90	-48.90	-13	35.90
3395.20	49.01	V	-56.6	1.30	9.90	-48.00	-13	35.00
PCS 1900 (30MHz-20GHz)								
Low Channel								
3700.40	56.38	H	-49.0	1.30	11.00	-39.30	-13	26.30
3700.40	57.25	V	-48.0	1.30	11.00	-38.30	-13	25.30
Middle Channel								
3760.00	57.27	H	-47.9	1.30	10.70	-38.50	-13	25.50
3760.00	58.04	V	-47.0	1.30	10.70	-37.60	-13	24.60
High Channel								
3819.60	58.36	H	-46.8	1.30	10.70	-37.40	-13	24.40
3819.60	59.19	V	-45.9	1.30	10.70	-36.50	-13	23.50

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
WCDMA Band 2 (30MHz-20GHz)								
Low Channel								
3704.80	48.75	H	-56.7	1.30	11.00	-47.00	-13	34.00
3704.80	49.32	V	-55.9	1.30	11.00	-46.20	-13	33.20
5557.20	47.19	H	-55.2	1.70	10.90	-46.00	-13	33.00
5557.20	46.87	V	-55.7	1.70	10.90	-46.50	-13	33.50
Middle Channel								
3760.00	49.18	H	-56.0	1.30	10.70	-46.60	-13	33.60
3760.00	49.87	V	-55.2	1.30	10.70	-45.80	-13	32.80
5640.00	47.69	H	-54.7	1.70	10.90	-45.50	-13	32.50
5640.00	47.24	V	-55.3	1.70	10.90	-46.10	-13	33.10
High Channel								
3815.20	49.93	H	-55.2	1.30	10.70	-45.80	-13	32.80
3815.20	50.64	V	-54.4	1.30	10.70	-45.00	-13	32.00
5722.80	48.57	H	-53.6	1.70	11.10	-44.20	-13	31.20
5722.80	48.12	V	-54.2	1.70	11.10	-44.80	-13	31.80
WCDMA Band 4 (30MHz-20GHz)								
Low Channel								
3424.80	47.98	H	-58.0	1.30	9.90	-49.40	-13	36.40
3424.80	48.43	V	-57.2	1.30	9.90	-48.60	-13	35.60
5137.20	47.06	H	-56.1	1.50	9.60	-48.00	-13	35.00
5137.20	47.21	V	-55.4	1.50	9.60	-47.30	-13	34.30
Middle Channel								
3465.20	48.69	H	-57.3	1.30	10.50	-48.10	-13	35.10
3465.20	49.05	V	-56.6	1.30	10.50	-47.40	-13	34.40
5197.80	47.48	H	-55.6	1.60	9.70	-47.50	-13	34.50
5197.80	47.94	V	-54.7	1.60	9.70	-46.60	-13	33.60
High Channel								
3505.20	49.14	H	-56.8	1.30	10.50	-47.60	-13	34.60
3505.20	49.72	V	-55.9	1.30	10.50	-46.70	-13	33.70
5257.80	47.87	H	-55.0	1.60	10.00	-46.60	-13	33.60
5257.80	48.25	V	-54.4	1.60	10.00	-46.00	-13	33.00

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
WCDMA Band 5 (30MHz-10GHz)								
Low Channel								
1652.80	48.31	H	-59.3	0.90	8.60	-51.60	-13	38.60
1652.80	47.94	V	-60.2	0.90	8.60	-52.50	-13	39.50
2479.20	50.05	H	-57.3	1.10	8.80	-49.60	-13	36.60
2479.20	49.48	V	-57.6	1.10	8.80	-49.90	-13	36.90
3305.60	47.12	H	-58.9	1.30	8.80	-51.40	-13	38.40
3305.60	46.63	V	-59.1	1.30	8.80	-51.60	-13	38.60
Middle Channel								
1673.20	48.68	H	-58.9	0.90	8.60	-51.20	-13	38.20
1673.20	48.25	V	-59.9	0.90	8.60	-52.20	-13	39.20
2509.80	50.46	H	-56.9	1.10	8.80	-49.20	-13	36.20
2509.80	49.84	V	-57.3	1.10	8.80	-49.60	-13	36.60
3346.40	47.39	H	-58.6	1.30	8.80	-51.10	-13	38.10
3346.40	46.97	V	-58.7	1.30	8.80	-51.20	-13	38.20
High Channel								
1693.20	49.45	H	-58.1	0.90	8.60	-50.40	-13	37.40
1693.20	49.02	V	-59.1	0.90	8.60	-51.40	-13	38.40
2539.80	51.27	H	-56.1	1.10	8.80	-48.40	-13	35.40
2539.80	50.38	V	-56.7	1.10	8.80	-49.00	-13	36.00
3386.40	48.19	H	-57.8	1.30	9.90	-49.20	-13	36.20
3386.40	47.66	V	-58.0	1.30	9.90	-49.40	-13	36.40

LTE Bands: (pre-scan QPSK, 16QAM, 64QAM with all bandwidths, the worst case as below)

ANT0:

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
Band 2 (30MHz-20GHz)								
QPSK, 1.4MHz, Low Channel								
3701.40	45.93	H	-59.5	1.30	11.00	-49.80	-13	36.80
3701.40	46.54	V	-58.7	1.30	11.00	-49.00	-13	36.00
5552.10	46.07	H	-56.3	1.70	10.90	-47.10	-13	34.10
5552.10	46.18	V	-56.4	1.70	10.90	-47.20	-13	34.20
QPSK, 1.4MHz, Middle Channel								
3760.00	45.86	H	-59.3	1.30	10.70	-49.90	-13	36.90
3760.00	46.12	V	-58.9	1.30	10.70	-49.50	-13	36.50
5640.00	45.61	H	-56.8	1.70	10.90	-47.60	-13	34.60
5640.00	45.75	V	-56.8	1.70	10.90	-47.60	-13	34.60
QPSK, 1.4MHz, High Channel								
3818.60	45.89	H	-59.2	1.30	10.70	-49.80	-13	36.80
3818.60	46.37	V	-58.7	1.30	10.70	-49.30	-13	36.30
5727.90	45.83	H	-56.4	1.70	11.10	-47.00	-13	34.00
5727.90	46.02	V	-56.3	1.70	11.10	-46.90	-13	33.90

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
Band 4 (30MHz-20GHz)								
QPSK, 1.4MHz, Low Channel								
3421.40	50.28	H	-55.7	1.30	9.90	-47.10	-13	34.10
3421.40	49.23	V	-56.4	1.30	9.90	-47.80	-13	34.80
5132.10	46.82	H	-56.4	1.50	9.60	-48.30	-13	35.30
5132.10	45.61	V	-57.0	1.50	9.60	-48.90	-13	35.90
QPSK, 1.4MHz, Middle Channel								
3465.00	46.61	H	-59.3	1.30	10.50	-50.10	-13	37.10
3465.00	46.45	V	-59.2	1.30	10.50	-50.00	-13	37.00
5197.50	48.25	H	-54.8	1.60	9.70	-46.70	-13	33.70
5197.50	49.92	V	-52.7	1.60	9.70	-44.60	-13	31.60
QPSK, 1.4MHz, High Channel								
3508.60	47.83	H	-58.1	1.30	10.50	-48.90	-13	35.90
3508.60	48.25	V	-57.4	1.30	10.50	-48.20	-13	35.20
5262.90	47.41	H	-55.5	1.60	10.00	-47.10	-13	34.10
5262.90	48.06	V	-54.6	1.60	10.00	-46.20	-13	33.20

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
Band 5 (30MHz-10GHz)								
QPSK, 1.4MHz, Low Channel								
1649.40	44.52	H	-63.1	0.90	8.60	-55.40	-13	42.40
1649.40	44.95	V	-63.2	0.90	8.60	-55.50	-13	42.50
2474.10	45.23	H	-62.1	1.10	8.80	-54.40	-13	41.40
2474.10	45.03	V	-62.1	1.10	8.80	-54.40	-13	41.40
3298.80	46.57	H	-59.4	1.30	8.80	-51.90	-13	38.90
3298.80	45.63	V	-60.1	1.30	8.80	-52.60	-13	39.60
QPSK, 1.4MHz, Middle Channel								
1673.00	47.16	H	-60.4	0.90	8.60	-52.70	-13	39.70
1673.00	46.38	V	-61.8	0.90	8.60	-54.10	-13	41.10
2509.50	58.15	H	-49.2	1.10	8.80	-41.50	-13	28.50
2509.50	57.07	V	-50.0	1.10	8.80	-42.30	-13	29.30
3346.00	45.61	H	-60.4	1.30	8.80	-52.90	-13	39.90
3346.00	46.98	V	-58.7	1.30	8.80	-51.20	-13	38.20
QPSK, 1.4MHz, High Channel								
1696.60	46.53	H	-61.0	0.90	8.60	-53.30	-13	40.30
1696.60	45.19	V	-63.0	0.90	8.60	-55.30	-13	42.30
2544.90	46.57	H	-60.8	1.10	8.80	-53.10	-13	40.10
2544.90	47.94	V	-59.2	1.10	8.80	-51.50	-13	38.50
3393.20	45.87	H	-60.1	1.30	9.90	-51.50	-13	38.50
3393.20	46.34	V	-59.3	1.30	9.90	-50.70	-13	37.70

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 12 (30MHz-10GHz)								
QPSK, 1.4MHz, Low Channel								
1399.40	47.24	H	-60.5	0.80	7.90	-53.40	-13	40.40
1399.40	46.87	V	-61.5	0.80	7.90	-54.40	-13	41.40
2099.10	50.96	H	-56.3	1.00	8.30	-49.00	-13	36.00
2099.10	51.68	V	-56.1	1.00	8.30	-48.80	-13	35.80
2798.80	48.32	H	-58.2	1.20	9.20	-50.20	-13	37.20
2798.80	48.89	V	-57.4	1.20	9.20	-49.40	-13	36.40
QPSK, 1.4MHz, Middle Channel								
1415.00	47.47	H	-60.2	0.80	7.90	-53.10	-13	40.10
1415.00	47.02	V	-61.4	0.80	7.90	-54.30	-13	41.30
2122.50	51.59	H	-55.7	1.00	8.30	-48.40	-13	35.40
2122.50	52.18	V	-55.6	1.00	8.30	-48.30	-13	35.30
2830.00	48.73	H	-57.8	1.20	9.20	-49.80	-13	36.80
2830.00	49.31	V	-57.0	1.20	9.20	-49.00	-13	36.00
QPSK, 1.4MHz, High Channel								
1430.60	48.69	H	-59.0	0.80	7.90	-51.90	-13	38.90
1430.60	48.21	V	-60.2	0.80	7.90	-53.10	-13	40.10
2145.90	52.17	H	-55.1	1.00	8.30	-47.80	-13	34.80
2145.90	53.02	V	-54.8	1.00	8.30	-47.50	-13	34.50
2861.20	49.38	H	-56.9	1.20	9.00	-49.10	-13	36.10
2861.20	49.94	V	-56.1	1.20	9.00	-48.30	-13	35.30

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 13 (30MHz-10GHz)								
QPSK, 5MHz, Low Channel								
1559.00	48.75	H	-58.9	0.90	8.60	-51.20	-40	11.20
1559.00	49.12	V	-59.1	0.90	8.60	-51.40	-40	11.40
2338.50	53.86	H	-53.5	1.10	9.40	-45.20	-13	32.20
2338.50	52.99	V	-54.5	1.10	9.40	-46.20	-13	33.20
3118.00	49.38	H	-56.6	1.20	7.20	-50.60	-13	37.60
3118.00	50.27	V	-55.5	1.20	7.20	-49.50	-13	36.50
QPSK, 5MHz, Middle Channel								
1564.00	49.17	H	-58.5	0.90	8.60	-50.80	-40	10.80
1564.00	49.58	V	-58.6	0.90	8.60	-50.90	-40	10.90
2346.00	54.23	H	-53.1	1.10	9.40	-44.80	-13	31.80
2346.00	53.35	V	-54.1	1.10	9.40	-45.80	-13	32.80
3128.00	49.96	H	-56.1	1.20	7.20	-50.10	-13	37.10
3128.00	50.72	V	-55.0	1.20	7.20	-49.00	-13	36.00
QPSK, 5MHz, High Channel								
1569.00	49.64	H	-58.0	0.90	8.60	-50.30	-40	10.30
1569.00	50.25	V	-57.9	0.90	8.60	-50.20	-40	10.20
2353.50	55.19	H	-52.2	1.10	9.10	-44.20	-13	31.20
2353.50	54.36	V	-52.9	1.10	9.10	-44.90	-13	31.90
3138.00	50.41	H	-55.6	1.20	7.20	-49.60	-13	36.60
3138.00	51.07	V	-54.7	1.20	7.20	-48.70	-13	35.70

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 17 (30MHz-10GHz)								
QPSK, 5MHz, Low Channel								
1413.00	50.36	H	-57.3	0.80	7.90	-50.20	-13	37.20
1413.00	51.17	V	-57.2	0.80	7.90	-50.10	-13	37.10
2119.50	51.68	H	-55.6	1.00	8.30	-48.30	-13	35.30
2119.50	52.54	V	-55.3	1.00	8.30	-48.00	-13	35.00
2826.00	51.02	H	-55.5	1.20	9.20	-47.50	-13	34.50
2826.00	51.39	V	-54.9	1.20	9.20	-46.90	-13	33.90
QPSK, 5MHz, Middle Channel								
1420.00	50.89	H	-56.8	0.80	7.90	-49.70	-13	36.70
1420.00	51.72	V	-56.7	0.80	7.90	-49.60	-13	36.60
2130.00	52.05	H	-55.3	1.00	8.30	-48.00	-13	35.00
2130.00	52.97	V	-54.9	1.00	8.30	-47.60	-13	34.60
2840.00	51.43	H	-55.1	1.20	9.20	-47.10	-13	34.10
2840.00	51.78	V	-54.5	1.20	9.20	-46.50	-13	33.50
QPSK, 5MHz, High Channel								
1427.00	51.45	H	-56.3	0.80	7.90	-49.20	-13	36.20
1427.00	52.24	V	-56.2	0.80	7.90	-49.10	-13	36.10
2140.50	52.93	H	-54.4	1.00	8.30	-47.10	-13	34.10
2140.50	53.86	V	-54.0	1.00	8.30	-46.70	-13	33.70
2854.00	52.37	H	-53.9	1.20	9.00	-46.10	-13	33.10
2854.00	52.69	V	-53.4	1.20	9.00	-45.60	-13	32.60

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 66 (30MHz-20GHz)								
QPSK, 1.4MHz, Low Channel								
3421.40	47.43	H	-58.5	1.30	9.90	-49.90	-13	36.90
3421.40	48.01	V	-57.6	1.30	9.90	-49.00	-13	36.00
5132.10	47.27	H	-55.9	1.50	9.60	-47.80	-13	34.80
5132.10	46.82	V	-55.8	1.50	9.60	-47.70	-13	34.70
QPSK, 1.4MHz, Middle Channel								
3490.00	47.86	H	-58.1	1.30	10.50	-48.90	-13	35.90
3490.00	48.54	V	-57.1	1.30	10.50	-47.90	-13	34.90
5235.00	47.69	H	-55.4	1.60	9.70	-47.30	-13	34.30
5235.00	47.15	V	-55.5	1.60	9.70	-47.40	-13	34.40
QPSK, 1.4MHz, High Channel								
3558.60	48.87	H	-56.8	1.30	10.90	-47.20	-13	34.20
3558.60	49.61	V	-55.8	1.30	10.90	-46.20	-13	33.20
5337.90	48.45	H	-54.5	1.60	10.00	-46.10	-13	33.10
5337.90	47.96	V	-54.7	1.60	10.00	-46.30	-13	33.30

ANT1:

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 7 (30MHz-26.5GHz)								
QPSK, 5MHz, Low Channel								
5005.00	47.34	H	-56.0	1.50	9.80	-47.70	-25	22.70
5005.00	47.02	V	-55.6	1.50	9.80	-47.30	-25	22.30
7507.50	46.11	H	-49.9	1.90	10.80	-41.00	-25	16.00
7507.50	46.53	V	-49.8	1.90	10.80	-40.90	-25	15.90
QPSK, 5MHz, Middle Channel								
5070.00	47.78	H	-55.4	1.50	9.60	-47.30	-25	22.30
5070.00	47.19	V	-55.4	1.50	9.60	-47.30	-25	22.30
7605.00	46.45	H	-49.4	1.90	11.00	-40.30	-25	15.30
7605.00	46.97	V	-49.3	1.90	11.00	-40.20	-25	15.20
QPSK, 5MHz, High Channel								
5135.00	48.69	H	-54.5	1.50	9.60	-46.40	-25	21.40
5135.00	48.15	V	-54.5	1.50	9.60	-46.40	-25	21.40
7702.50	46.84	H	-49.0	1.90	10.90	-40.00	-25	15.00
7702.50	47.36	V	-48.8	1.90	10.90	-39.80	-25	14.80

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 38 (30MHz-26.5GHz)								
QPSK, 5MHz, Low Channel								
5145.00	48.36	H	-54.8	1.50	9.60	-46.70	-25	21.70
5145.00	47.91	V	-54.7	1.50	9.60	-46.60	-25	21.60
7717.50	46.64	H	-49.2	1.90	10.90	-40.20	-25	15.20
7717.50	46.89	V	-49.3	1.90	10.90	-40.30	-25	15.30
QPSK, 5MHz, Middle Channel								
5190.00	48.98	H	-54.1	1.60	9.70	-46.00	-25	21.00
5190.00	48.45	V	-54.2	1.60	9.70	-46.10	-25	21.10
7785.00	47.12	H	-48.6	1.90	11.10	-39.40	-25	14.40
7785.00	47.73	V	-48.4	1.90	11.10	-39.20	-25	14.20
QPSK, 5MHz, High Channel								
5235.00	49.64	H	-53.4	1.60	9.70	-45.30	-25	20.30
5235.00	48.97	V	-53.7	1.60	9.70	-45.60	-25	20.60
7852.50	47.58	H	-48.1	1.90	11.10	-38.90	-25	13.90
7852.50	48.19	V	-47.8	1.90	11.10	-38.60	-25	13.60

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 40 Lower (30MHz-25GHz)								
QPSK, 5MHz, Low Channel								
4615.00	47.12	H	-56.9	1.50	10.50	-47.90	-40	7.90
4615.00	46.75	V	-56.8	1.50	10.50	-47.80	-40	7.80
6922.50	44.93	H	-53.3	1.90	10.30	-44.90	-40	4.90
6922.50	45.28	V	-53.1	1.90	10.30	-44.70	-40	4.70
QPSK, 5MHz, Middle Channel								
4620.00	47.55	H	-56.4	1.50	10.50	-47.40	-40	7.40
4620.00	47.06	V	-56.5	1.50	10.50	-47.50	-40	7.50
6930.00	45.18	H	-53.1	1.90	10.30	-44.70	-40	4.70
6930.00	45.47	V	-52.9	1.90	10.30	-44.50	-40	4.50
QPSK, 5MHz, High Channel								
4625.00	48.24	H	-55.8	1.50	10.50	-46.80	-40	6.80
4625.00	47.89	V	-55.7	1.50	10.50	-46.70	-40	6.70
6937.50	45.57	H	-52.7	1.90	10.30	-44.30	-40	4.30
6937.50	46.02	V	-52.3	1.90	10.30	-43.90	-40	3.90
LTE Band 40 Upper (30MHz-25GHz)								
QPSK, 5MHz, Low Channel								
4705.00	47.17	H	-56.7	1.50	10.30	-47.90	-40	7.90
4705.00	46.74	V	-56.6	1.50	10.30	-47.80	-40	7.80
7057.50	44.52	H	-52.9	1.90	10.20	-44.60	-40	4.60
7057.50	44.93	V	-52.6	1.90	10.20	-44.30	-40	4.30
QPSK, 5MHz, Middle Channel								
4710.00	47.48	H	-56.3	1.50	10.30	-47.50	-40	7.50
4710.00	47.15	V	-56.2	1.50	10.30	-47.40	-40	7.40
7065.00	44.86	H	-52.5	1.90	10.20	-44.20	-40	4.20
7065.00	45.09	V	-52.4	1.90	10.20	-44.10	-40	4.10
QPSK, 5MHz, High Channel								
4715.00	48.32	H	-55.5	1.50	10.30	-46.70	-40	6.70
4715.00	48.03	V	-55.3	1.50	10.30	-46.50	-40	6.50
7072.50	45.24	H	-52.1	1.90	10.20	-43.80	-40	3.80
7072.50	45.69	V	-51.8	1.90	10.20	-43.50	-40	3.50

ANT 4

Frequency (MHz)	Receiver Reading (dBµV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
Band 2 (30MHz-20GHz)								
QPSK, 1.4MHz, Low Channel								
3701.40	54.12	H	-51.3	1.30	11.00	-41.60	-13	28.60
3701.40	54.89	V	-50.4	1.30	11.00	-40.70	-13	27.70
5552.10	51.75	H	-50.7	1.70	10.90	-41.50	-13	28.50
5552.10	52.08	V	-50.5	1.70	10.90	-41.30	-13	28.30
QPSK, 1.4MHz, Middle Channel								
3760.00	54.96	H	-50.2	1.30	10.70	-40.80	-13	27.80
3760.00	55.87	V	-49.2	1.30	10.70	-39.80	-13	26.80
5640.00	52.41	H	-50.0	1.70	10.90	-40.80	-13	27.80
5640.00	52.64	V	-49.9	1.70	10.90	-40.70	-13	27.70
QPSK, 1.4MHz, High Channel								
3818.60	55.84	H	-49.3	1.30	10.70	-39.90	-13	26.90
3818.60	56.63	V	-48.4	1.30	10.70	-39.00	-13	26.00
5727.90	53.15	H	-49.0	1.70	11.10	-39.60	-13	26.60
5727.90	53.52	V	-48.8	1.70	11.10	-39.40	-13	26.40

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
Band 4 (30MHz-20GHz)								
QPSK, 1.4MHz, Low Channel								
3421.40	51.32	H	-54.6	1.30	9.90	-46.00	-13	33.00
3421.40	52.19	V	-53.5	1.30	9.90	-44.90	-13	31.90
5132.10	49.27	H	-53.9	1.50	9.60	-45.80	-13	32.80
5132.10	48.83	V	-53.8	1.50	9.60	-45.70	-13	32.70
QPSK, 1.4MHz, Middle Channel								
3465.00	52.12	H	-53.8	1.30	10.50	-44.60	-13	31.60
3465.00	52.87	V	-52.8	1.30	10.50	-43.60	-13	30.60
5197.50	49.96	H	-53.1	1.60	9.70	-45.00	-13	32.00
5197.50	49.45	V	-53.2	1.60	9.70	-45.10	-13	32.10
QPSK, 1.4MHz, High Channel								
3508.60	53.24	H	-52.7	1.30	10.50	-43.50	-13	30.50
3508.60	54.07	V	-51.6	1.30	10.50	-42.40	-13	29.40
5262.90	50.68	H	-52.2	1.60	10.00	-43.80	-13	30.80
5262.90	50.15	V	-52.5	1.60	10.00	-44.10	-13	31.10

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
Band 5 (30MHz-10GHz)								
QPSK, 1.4MHz, Low Channel								
1649.40	51.99	H	-55.7	0.90	8.60	-48.00	-13	35.00
1649.40	51.24	V	-57.0	0.90	8.60	-49.30	-13	36.30
2474.10	53.05	H	-54.3	1.10	8.80	-46.60	-13	33.60
2474.10	52.36	V	-54.8	1.10	8.80	-47.10	-13	34.10
3298.80	47.08	H	-58.9	1.30	8.80	-51.40	-13	38.40
3298.80	47.63	V	-58.1	1.30	8.80	-50.60	-13	37.60
QPSK, 1.4MHz, Middle Channel								
1673.00	52.68	H	-54.9	0.90	8.60	-47.20	-13	34.20
1673.00	51.75	V	-56.4	0.90	8.60	-48.70	-13	35.70
2509.50	53.52	H	-53.8	1.10	8.80	-46.10	-13	33.10
2509.50	52.89	V	-54.2	1.10	8.80	-46.50	-13	33.50
3346.00	46.94	H	-59.0	1.30	8.80	-51.50	-13	38.50
3346.00	47.37	V	-58.3	1.30	8.80	-50.80	-13	37.80
QPSK, 1.4MHz, High Channel								
1696.60	53.54	H	-54.0	0.90	8.60	-46.30	-13	33.30
1696.60	52.39	V	-55.8	0.90	8.60	-48.10	-13	35.10
2544.90	54.87	H	-52.5	1.10	8.80	-44.80	-13	31.80
2544.90	54.12	V	-53.0	1.10	8.80	-45.30	-13	32.30
3393.20	47.91	H	-58.1	1.30	9.90	-49.50	-13	36.50
3393.20	48.68	V	-57.0	1.30	9.90	-48.40	-13	35.40

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 12 (30MHz-10GHz)								
QPSK, 1.4MHz, Low Channel								
1399.40	47.88	H	-59.8	0.80	7.90	-52.70	-13	39.70
1399.40	48.69	V	-59.7	0.80	7.90	-52.60	-13	39.60
2099.10	55.91	H	-51.4	1.00	8.30	-44.10	-13	31.10
2099.10	55.06	V	-52.8	1.00	8.30	-45.50	-13	32.50
2798.80	50.72	H	-55.8	1.20	9.20	-47.80	-13	34.80
2798.80	51.84	V	-54.5	1.20	9.20	-46.50	-13	33.50
QPSK, 1.4MHz, Middle Channel								
1415.00	48.39	H	-59.3	0.80	7.90	-52.20	-13	39.20
1415.00	49.14	V	-59.3	0.80	7.90	-52.20	-13	39.20
2122.50	56.96	H	-50.3	1.00	8.30	-43.00	-13	30.00
2122.50	55.87	V	-52.0	1.00	8.30	-44.70	-13	31.70
2830.00	51.65	H	-54.9	1.20	9.20	-46.90	-13	33.90
2830.00	52.58	V	-53.7	1.20	9.20	-45.70	-13	32.70
QPSK, 1.4MHz, High Channel								
1430.60	49.25	H	-58.5	0.80	7.90	-51.40	-13	38.40
1430.60	50.04	V	-58.4	0.80	7.90	-51.30	-13	38.30
2145.90	57.78	H	-49.5	1.00	8.30	-42.20	-13	29.20
2145.90	56.59	V	-51.2	1.00	8.30	-43.90	-13	30.90
2861.20	52.47	H	-53.8	1.20	9.00	-46.00	-13	33.00
2861.20	53.32	V	-52.7	1.20	9.00	-44.90	-13	31.90

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 13 (30MHz-10GHz)								
QPSK, 5MHz, Low Channel								
1559.00	47.32	H	-60.3	0.90	8.60	-52.60	-40	12.60
1559.00	48.19	V	-60.0	0.90	8.60	-52.30	-40	12.30
2338.50	52.21	H	-55.1	1.10	9.40	-46.80	-13	33.80
2338.50	53.05	V	-54.4	1.10	9.40	-46.10	-13	33.10
3118.00	47.44	H	-58.6	1.20	7.20	-52.60	-13	39.60
3118.00	48.27	V	-57.5	1.20	7.20	-51.50	-13	38.50
QPSK, 5MHz, Middle Channel								
1564.00	47.76	H	-59.9	0.90	8.60	-52.20	-40	12.20
1564.00	48.53	V	-59.7	0.90	8.60	-52.00	-40	12.00
2346.00	52.69	H	-54.6	1.10	9.40	-46.30	-13	33.30
2346.00	53.48	V	-54.0	1.10	9.40	-45.70	-13	32.70
3128.00	47.95	H	-58.1	1.20	7.20	-52.10	-13	39.10
3128.00	48.84	V	-56.9	1.20	7.20	-50.90	-13	37.90
QPSK, 5MHz, High Channel								
1569.00	48.64	H	-59.0	0.90	8.60	-51.30	-40	11.30
1569.00	49.25	V	-58.9	0.90	8.60	-51.20	-40	11.20
2353.50	53.82	H	-53.5	1.10	9.10	-45.50	-13	32.50
2353.50	54.57	V	-52.7	1.10	9.10	-44.70	-13	31.70
3138.00	48.48	H	-57.5	1.20	7.20	-51.50	-13	38.50
3138.00	49.39	V	-56.4	1.20	7.20	-50.40	-13	37.40

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 17 (30MHz-10GHz)								
QPSK, 5MHz, Low Channel								
1413.00	47.32	H	-60.4	0.80	7.90	-53.30	-13	40.30
1413.00	48.13	V	-60.3	0.80	7.90	-53.20	-13	40.20
2119.50	52.01	H	-55.3	1.00	8.30	-48.00	-13	35.00
2119.50	51.25	V	-56.6	1.00	8.30	-49.30	-13	36.30
2826.00	51.54	H	-55.0	1.20	9.20	-47.00	-13	34.00
2826.00	52.38	V	-53.9	1.20	9.20	-45.90	-13	32.90
QPSK, 5MHz, Middle Channel								
1420.00	47.75	H	-60.0	0.80	7.90	-52.90	-13	39.90
1420.00	48.48	V	-59.9	0.80	7.90	-52.80	-13	39.80
2130.00	52.57	H	-54.7	1.00	8.30	-47.40	-13	34.40
2130.00	51.82	V	-56.0	1.00	8.30	-48.70	-13	35.70
2840.00	51.93	H	-54.6	1.20	9.20	-46.60	-13	33.60
2840.00	52.69	V	-53.6	1.20	9.20	-45.60	-13	32.60
QPSK, 5MHz, High Channel								
1427.00	48.69	H	-59.0	0.80	7.90	-51.90	-13	38.90
1427.00	49.27	V	-59.1	0.80	7.90	-52.00	-13	39.00
2140.50	53.34	H	-54.0	1.00	8.30	-46.70	-13	33.70
2140.50	52.51	V	-55.3	1.00	8.30	-48.00	-13	35.00
2854.00	52.83	H	-53.5	1.20	9.00	-45.70	-13	32.70
2854.00	53.72	V	-52.3	1.20	9.00	-44.50	-13	31.50

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 41 (30MHz-27GHz)								
QPSK, 5MHz, Low Channel								
4997.00	60.38	H	-42.9	1.50	9.80	-34.60	-25	9.60
4997.00	61.27	V	-41.3	1.50	9.80	-33.00	-25	8.00
7495.50	48.54	H	-47.4	1.90	10.80	-38.50	-25	13.50
7495.50	49.15	V	-47.2	1.90	10.80	-38.30	-25	13.30
QPSK, 5MHz, Middle Channel								
5186.00	60.96	H	-42.1	1.60	9.70	-34.00	-25	9.00
5186.00	62.05	V	-40.6	1.60	9.70	-32.50	-25	7.50
7779.00	48.87	H	-46.9	1.90	11.10	-37.70	-25	12.70
7779.00	49.39	V	-46.7	1.90	11.10	-37.50	-25	12.50
QPSK, 5MHz, High Channel								
5375.00	61.69	H	-41.1	1.70	10.50	-32.30	-25	7.30
5375.00	62.56	V	-40.2	1.70	10.50	-31.40	-25	6.40
8062.50	49.44	H	-46.2	2.00	11.40	-36.80	-25	11.80
8062.50	49.97	V	-46.0	2.00	11.40	-36.60	-25	11.60

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 66 (30MHz-20GHz)								
QPSK, 1.4MHz, Low Channel								
3421.40	49.89	H	-56.1	1.30	9.90	-47.50	-13	34.50
3421.40	50.72	V	-54.9	1.30	9.90	-46.30	-13	33.30
5132.10	48.93	H	-54.2	1.50	9.60	-46.10	-13	33.10
5132.10	48.51	V	-54.1	1.50	9.60	-46.00	-13	33.00
QPSK, 1.4MHz, Middle Channel								
3490.00	50.35	H	-55.6	1.30	10.50	-46.40	-13	33.40
3490.00	51.04	V	-54.6	1.30	10.50	-45.40	-13	32.40
5235.00	49.48	H	-53.6	1.60	9.70	-45.50	-13	32.50
5235.00	48.87	V	-53.8	1.60	9.70	-45.70	-13	32.70
QPSK, 1.4MHz, High Channel								
3558.60	51.68	H	-54.0	1.30	10.90	-44.40	-13	31.40
3558.60	52.45	V	-53.0	1.30	10.90	-43.40	-13	30.40
5337.90	50.29	H	-52.6	1.60	10.00	-44.20	-13	31.20
5337.90	49.77	V	-52.9	1.60	10.00	-44.50	-13	31.50

ANT5:

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
LTE Band 42 (30MHz-36GHz)								
QPSK, 5MHz, Low Channel								
6905.00	44.27	H	-54.0	1.90	10.30	-45.60	-40	5.60
6905.00	43.98	V	-54.4	1.90	10.30	-46.00	-40	6.00
QPSK, 5MHz, Middle Channel								
7000.00	44.54	H	-53.2	1.90	10.20	-44.90	-40	4.90
7000.00	44.16	V	-53.7	1.90	10.20	-45.40	-40	5.40
QPSK, 5MHz, High Channel								
7095.00	45.25	H	-52.1	1.90	10.20	-43.80	-40	3.80
7095.00	44.82	V	-52.7	1.90	10.20	-44.40	-40	4.40

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: Substituted Level - Cable loss+ Antenna Gain

Margin = Limit -Absolute Level

FCC§ 22.917 (a); § 24.238 (a); §27.53 (a)(c)(g)(h)(m)(n) - BAND EDGES**Applicable Standard**

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.

According to FCC §27.53 (a), For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

(4)For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

According to FCC §27.53 (c), For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

According to FCC §27.53 (g) , For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC §27.53 (h), 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.

According to FCC §27.53 (m), For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5MHz.

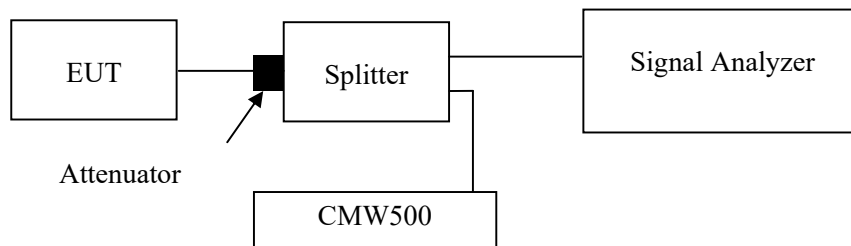
According to FCC §27.53(n)(2), For mobile operations in the 3450 - 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed - 13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 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.

Test Procedure

ANSI C63.26-2015 Section 5.7

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency



Test Data**Environmental Conditions**

Temperature:	23.1-24.3 °C
Relative Humidity:	42-55 %
ATM Pressure:	101 kPa

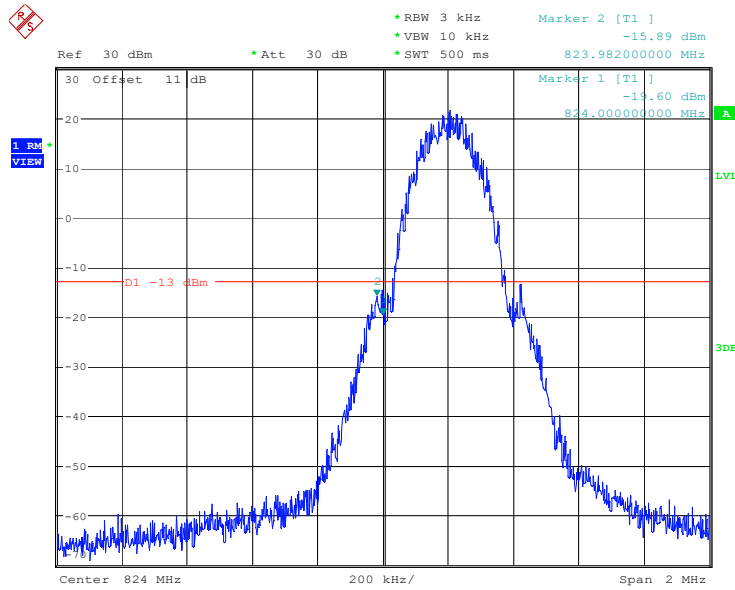
The testing was performed by Cheeb Huang from 2024-02-07 to 2024-03-19.

EUT operation mode: Transmitting (Worst case)

Test Result: Compliant

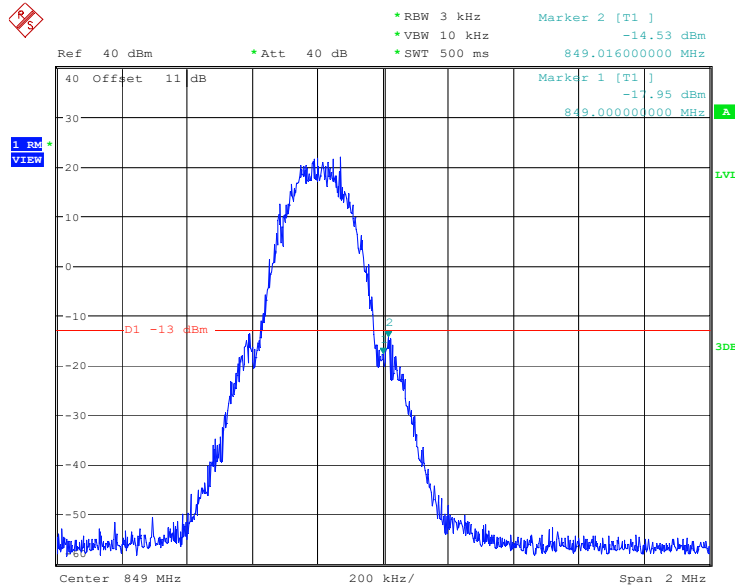
Please refer to the following plots.

Cellular Band, Left Band Edge for GSM (GMSK) Mode



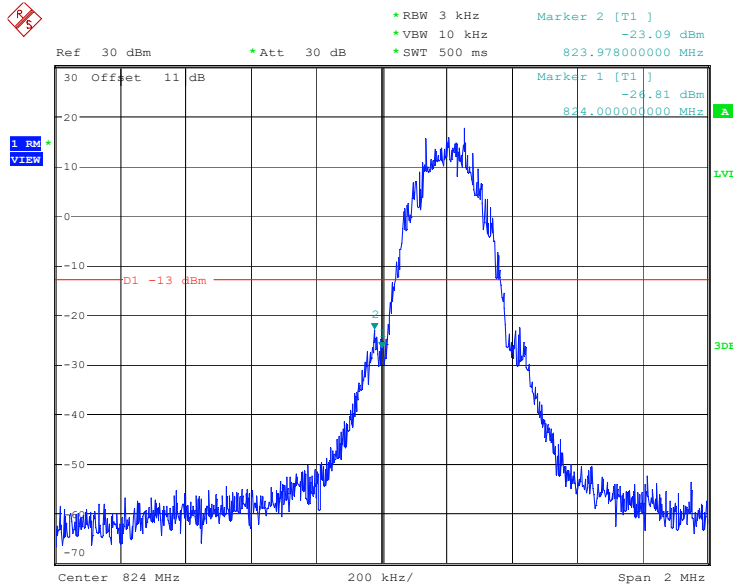
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Date: 7.FEB.2024 13:26:55

Cellular Band, Right Band Edge for GSM (GMSK) Mode



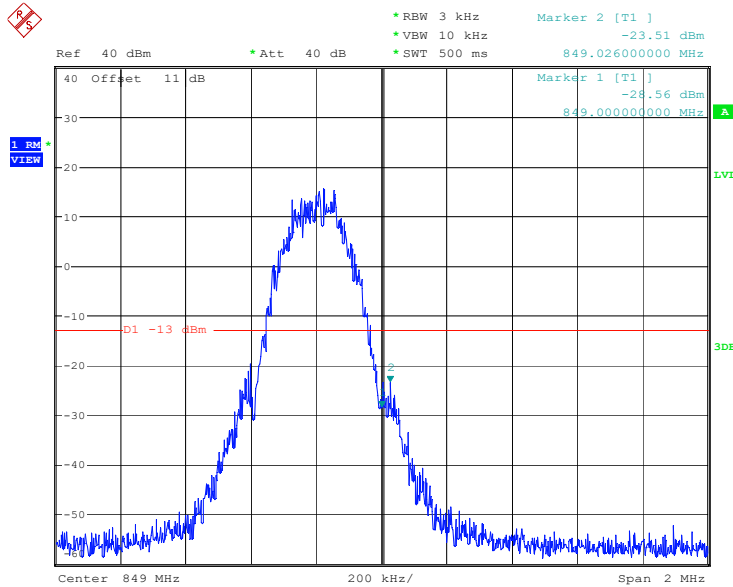
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Date: 7.FEB.2024 13:25:50

Cellular Band, Left Band Edge for EDGE(8PSK) Mode



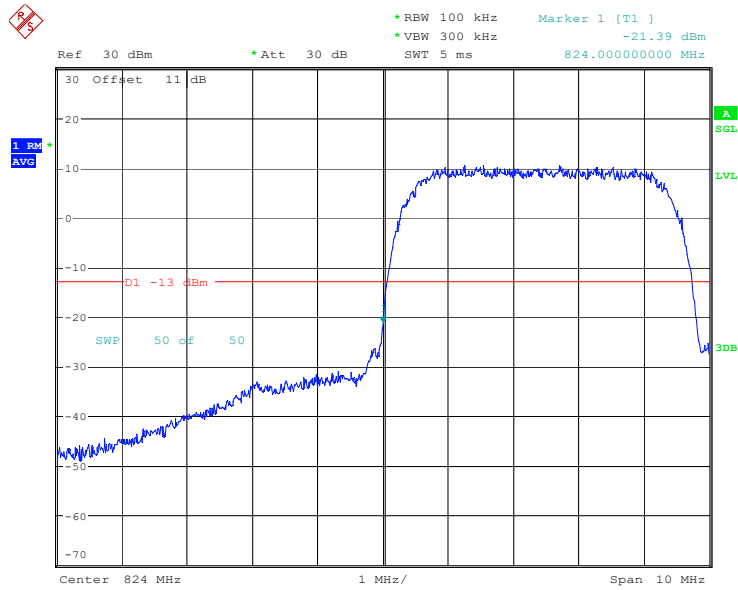
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Cellular Band, Right Band Edge for EDGE(8PSK) Mode



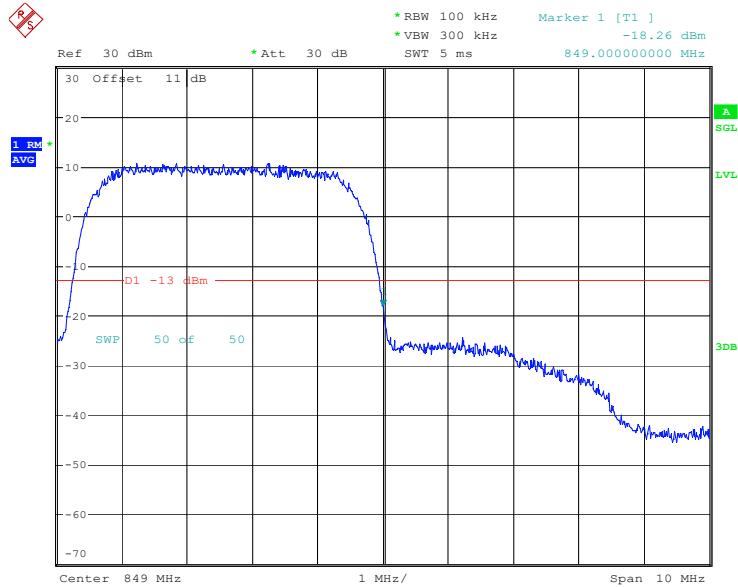
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Cellular Band, Left Band Edge for RMC (BPSK) Mode



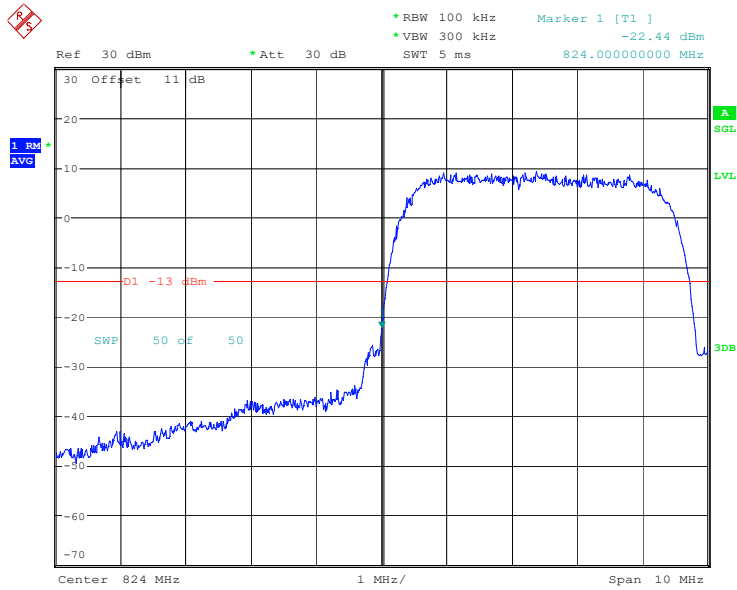
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Cellular Band, Right Band Edge for RMC (BPSK) Mode



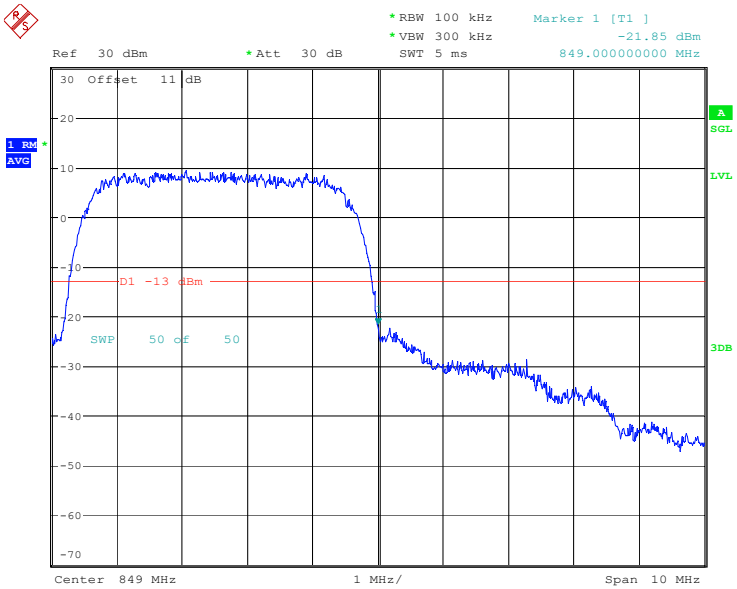
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 7.FEB.2024 16:01:57

Cellular Band, Left Band Edge for HSDPA(16QAM) Mode



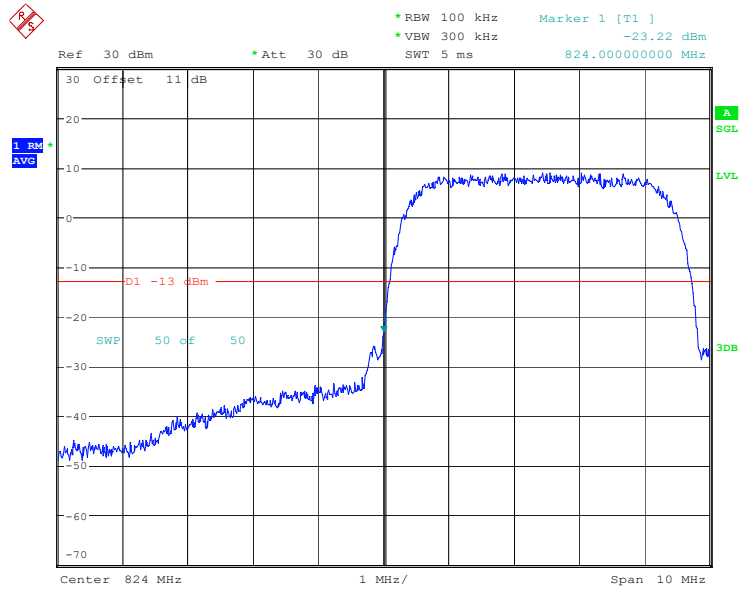
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Date: 7.FEB.2024 16:27:38

Cellular Band, Right Band Edge for HSDPA (16QAM) Mode



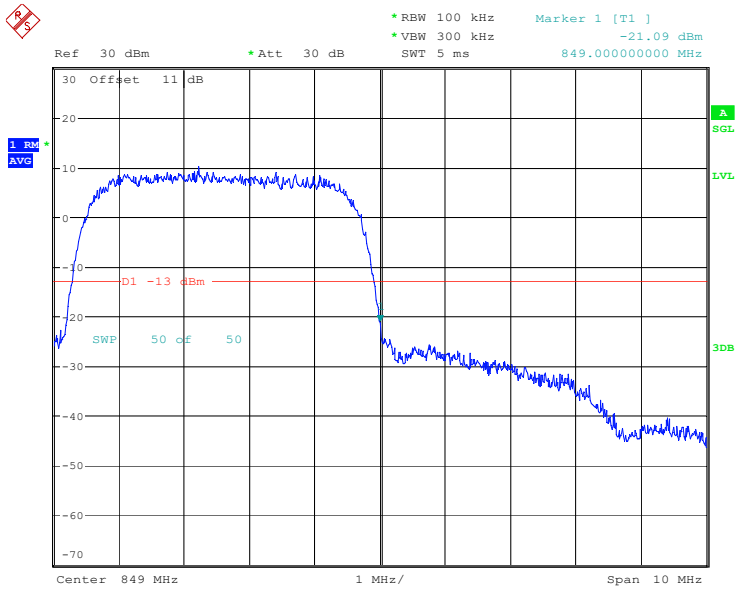
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Date: 7.FEB.2024 16:04:09

Cellular Band, Left Band Edge for HSUPA (QPSK) Mode



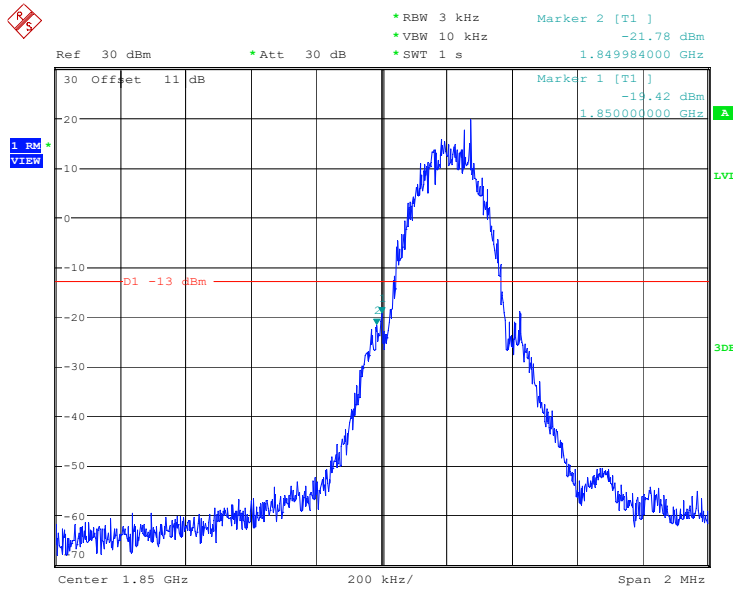
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Cellular Band, Right Band Edge for HSUPA (QPSK) Mode



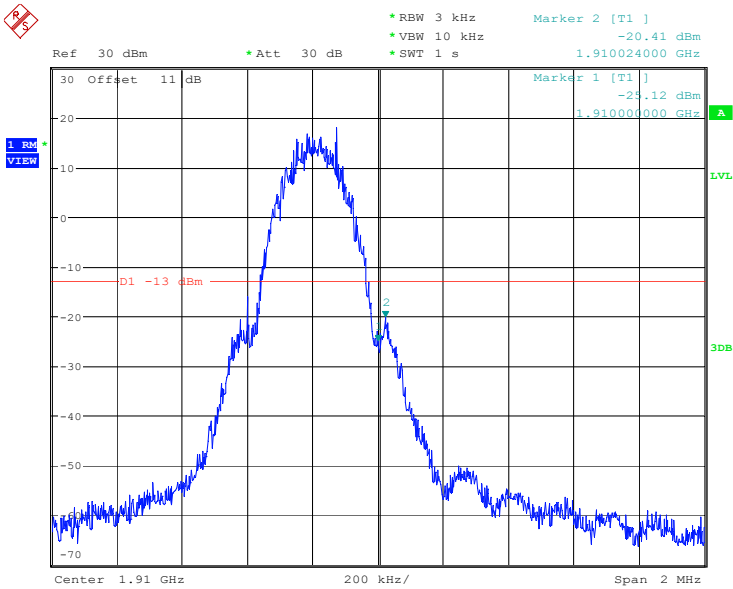
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PCS Band, Left Band Edge for GSM (GMSK) Mode



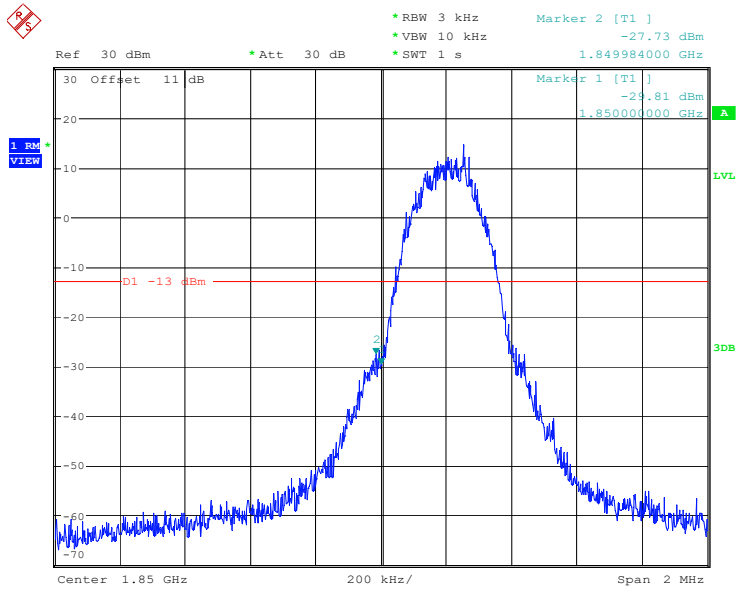
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PCS Band, Right Band Edge for GSM (GMSK) Mode



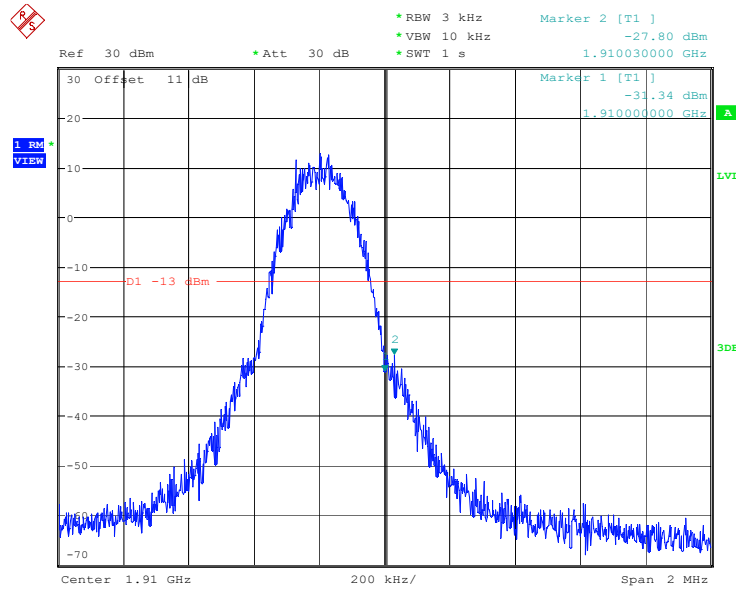
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PCS Band, Left Band Edge for EDGE(8PSK) Mode



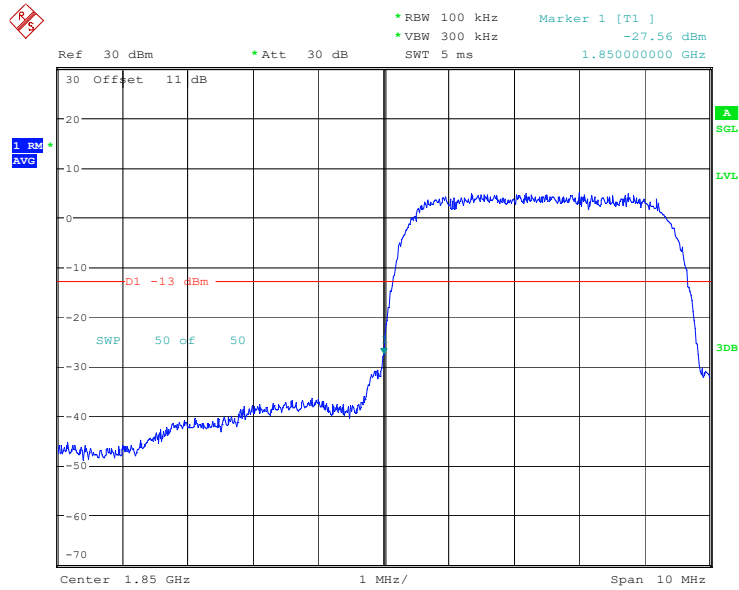
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PCS Band, Right Band Edge for EDGE(8PSK) Mode



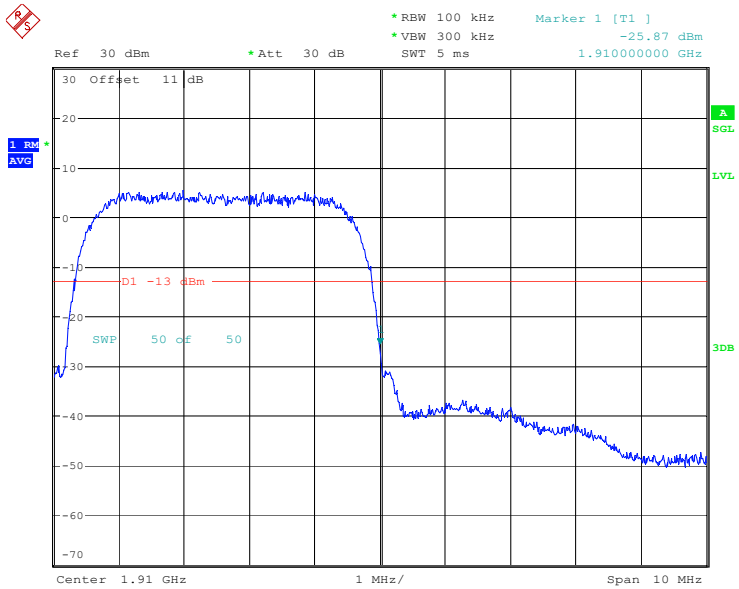
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Date: 7.FEB.2024 14:32:24

PCS Band, Left Band Edge for RMC (BPSK) Mode



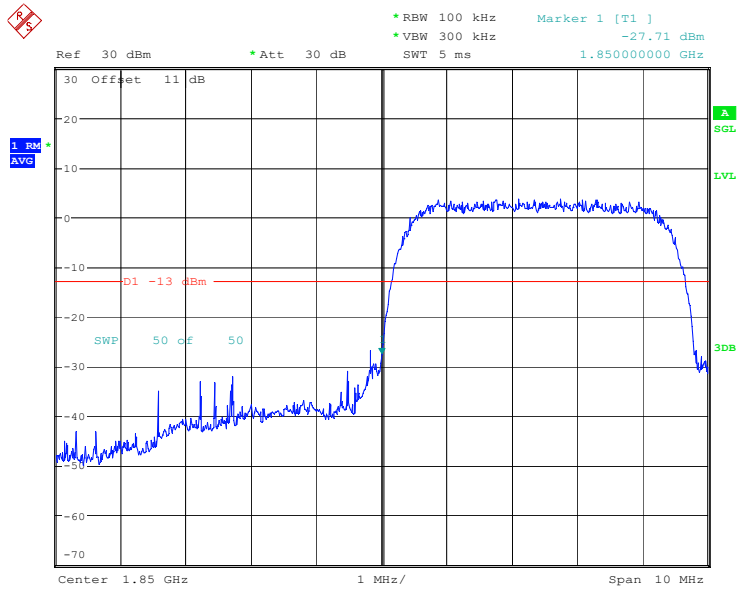
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Date: 6.MAR.2024 03:03:41

PCS Band, Right Band Edge for RMC (BPSK) Mode



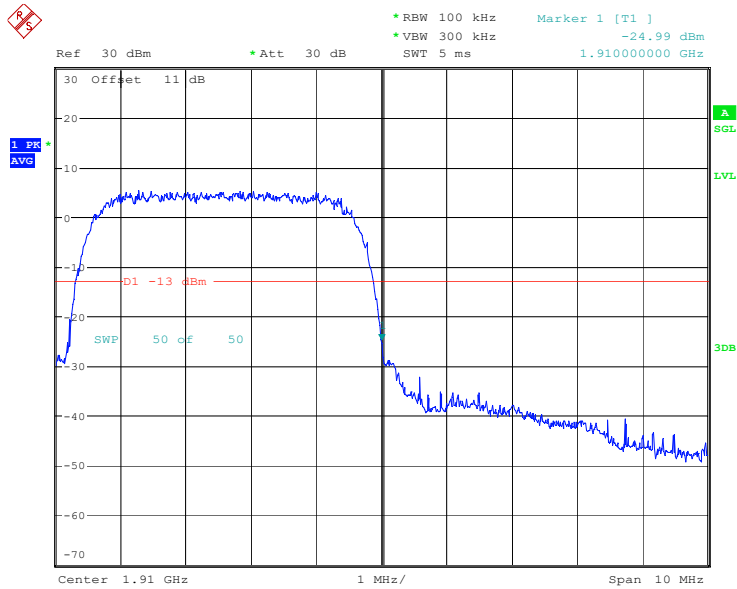
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PCS Band, Left Band Edge for HSDPA(16QAM) Mode



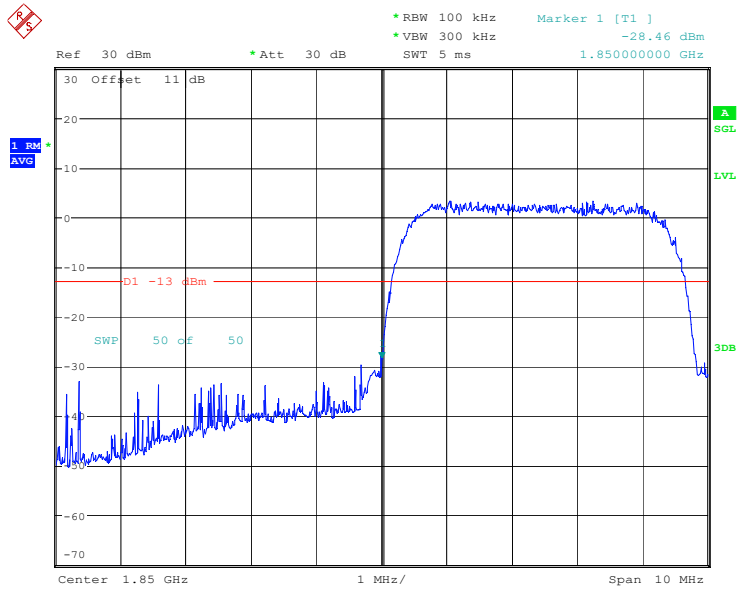
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PCS Band, Right Band Edge for HSDPA (16QAM) Mode



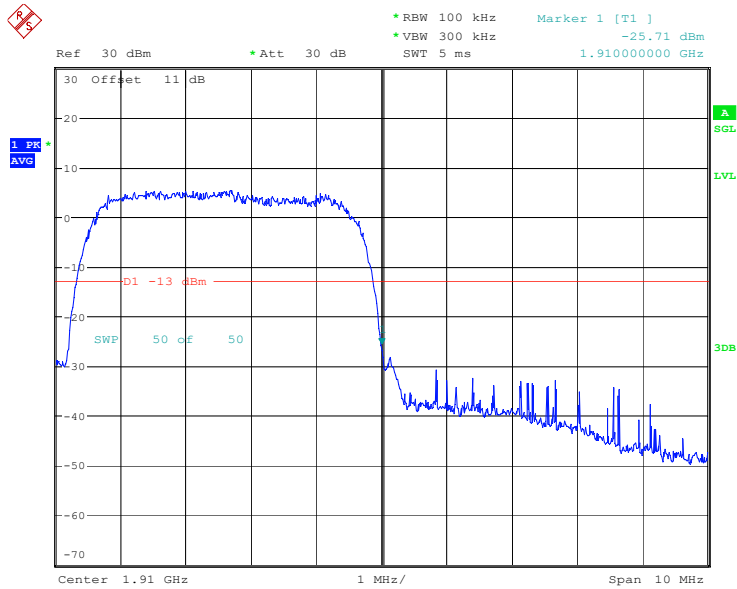
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:14:02

PCS Band, Left Band Edge for HSUPA (QPSK) Mode



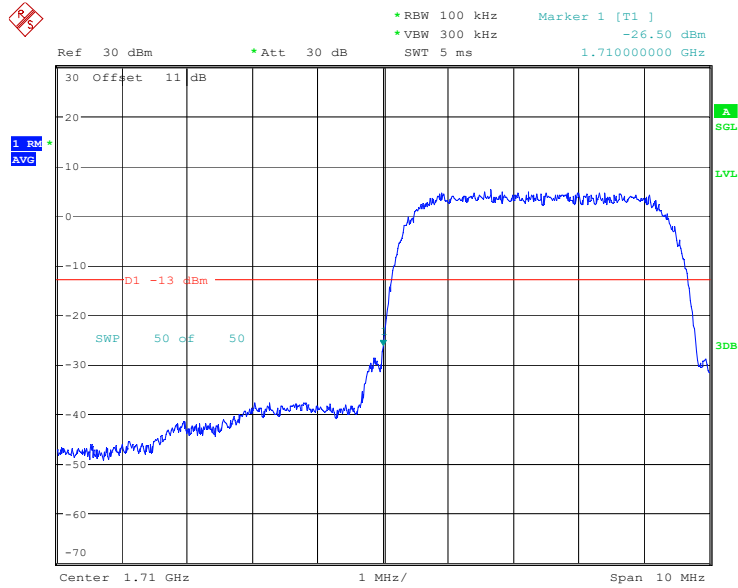
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:24:24

PCS Band, Right Band Edge for HSUPA (QPSK) Mode



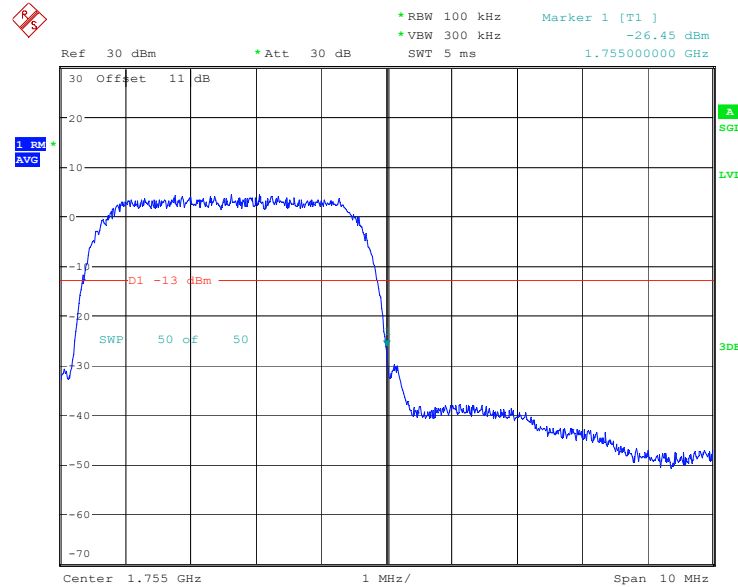
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:32:27

AWS Band, Left Band Edge for RMC (BPSK) Mode



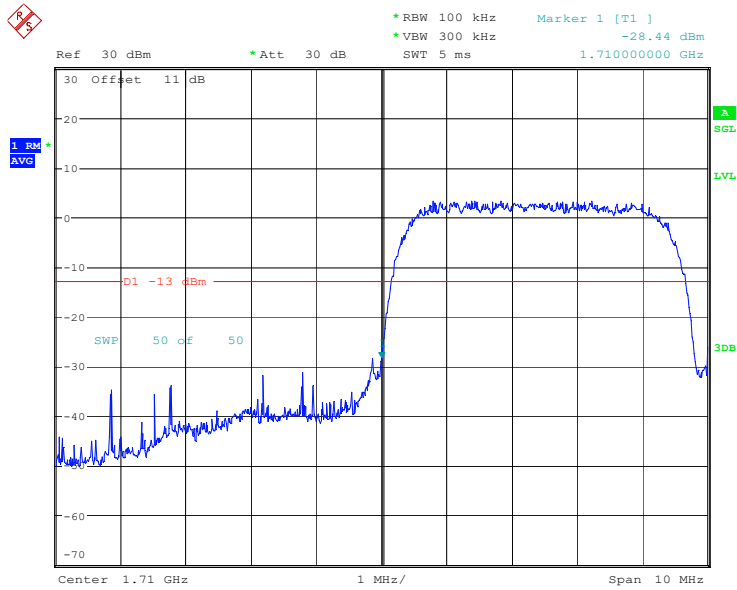
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:23:37

AWS Band, Right Band Edge for RMC (BPSK) Mode



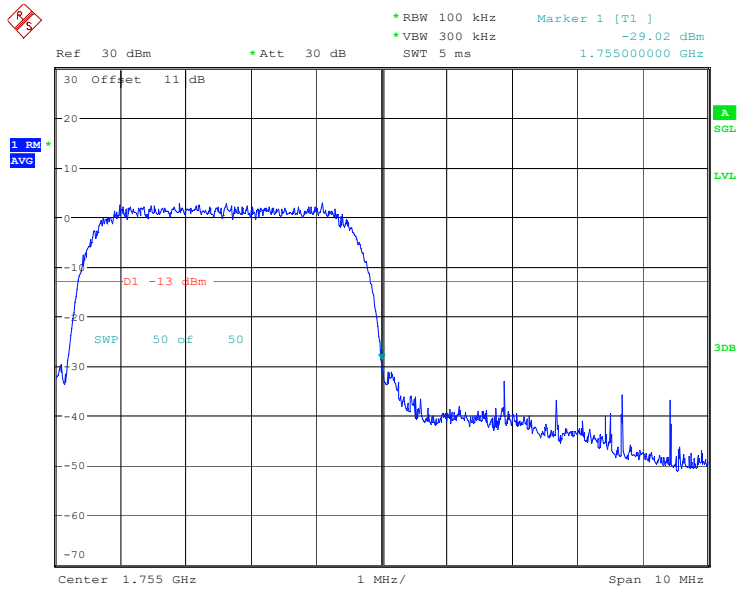
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:16:10

AWS Band, Left Band Edge for HSDPA(16QAM) Mode



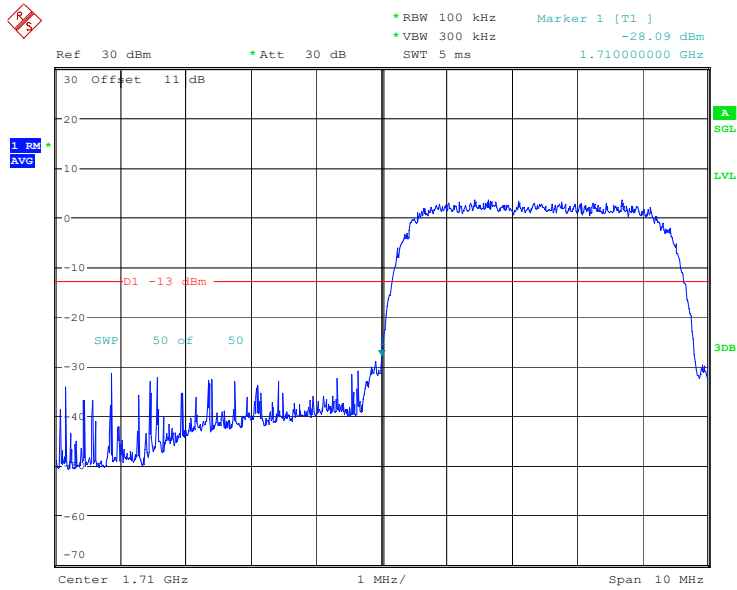
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:06:52

AWS Band, Right Band Edge for HSDPA (16QAM) Mode



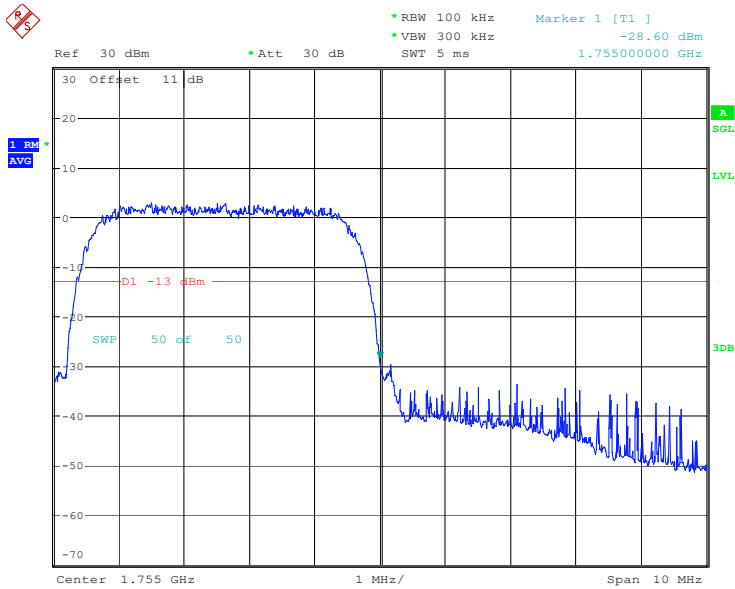
ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 04:09:12

AWS Band, Left Band Edge for HSUPA (QPSK) Mode



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:38:40

AWS Band, Right Band Edge for HSUPA (QPSK) Mode



ProjectNo.:SZ1240108-01736E-RF Tester:Cheeb Huang
Date: 6.MAR.2024 03:50:08

The test plots of LTE bands please refer to the Appendix C1 & Appendix C2.

FCC § 2.1055; § 22.355; § 24.235; §27.54 - FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055, §22.355, §24.235&§27.54.

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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 Transmitters in the Public Mobile Services

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&§27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

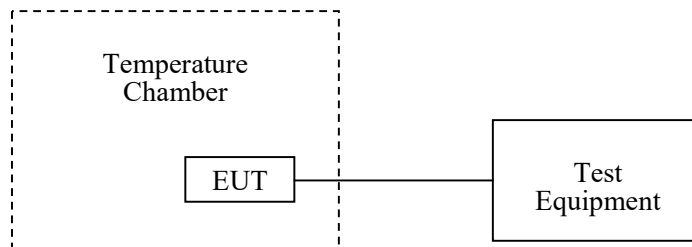
Test Procedure

ANSI C63.26-2015 Section 5.6

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Data**Environmental Conditions**

Temperature:	23.1-24.3 °C
Relative Humidity:	42-55 %
ATM Pressure:	101 kPa

The testing was performed by Cheeb Huang from 2024-02-07 to 2024-03-06.

EUT operation mode: Transmitting

Test Result: Compliant

Please refer to the following tables.

Cellular Band (Part 22H)

GSM Mode

Test Modulation:	GMSK		Test Channel	836.6	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	-8.59	-0.010	2.5
	-20	3.91	-6.4	-0.008	2.5
	-10	3.91	-10.48	-0.013	2.5
	0	3.91	-2.44	-0.003	2.5
	10	3.91	-9.37	-0.011	2.5
	20	3.91	-5.8	-0.007	2.5
	30	3.91	-9.52	-0.011	2.5
	40	3.91	-11.5	-0.014	2.5
	50	3.91	-4.93	-0.006	2.5
Frequency Stability vs. Voltage	20	3.45	-10.12	-0.012	2.5
	20	4.50	-6.46	-0.008	2.5

Test Modulation:	8PSK		Test Channel	836.6	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	-12.57	-0.015	2.5
	-20	3.91	-8.22	-0.010	2.5
	-10	3.91	-3.36	-0.004	2.5
	0	3.91	-13.29	-0.016	2.5
	10	3.91	-11.64	-0.014	2.5
	20	3.91	-10.08	-0.012	2.5
	30	3.91	-6.06	-0.007	2.5
	40	3.91	-5.85	-0.007	2.5
	50	3.91	-6.96	-0.008	2.5
Frequency Stability vs. Voltage	20	3.45	-8.58	-0.010	2.5
	20	4.50	-9.72	-0.012	2.5

WCDMA Mode

Test Modulation:	WCDMA R99		Test Channel:	836.6	MHz
Test Item	Temperature (°C)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	-0.29	0.000	2.5
	-20	3.91	0.7	0.001	2.5
	-10	3.91	-4.55	-0.005	2.5
	0	3.91	-0.08	0.000	2.5
	10	3.91	5.02	0.006	2.5
	20	3.91	-0.26	0.000	2.5
	30	3.91	-2.54	-0.003	2.5
	40	3.91	0.19	0.000	2.5
Frequency Stability vs. Voltage	20	3.45	3.82	0.005	2.5
	20	4.50	-0.47	-0.001	2.5

PCS Band (Part 24E)

GSM Mode

Test Mode:	GMSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1850.610	1850.000	1908.870	1910.000
	-20	3.91	1850.760	1850.000	1909.830	1910.000
	-10	3.91	1850.560	1850.000	1908.970	1910.000
	0	3.91	1851.280	1850.000	1908.790	1910.000
	10	3.91	1850.470	1850.000	1909.590	1910.000
	20	3.91	1850.940	1850.000	1908.910	1910.000
	30	3.91	1850.630	1850.000	1909.250	1910.000
	40	3.91	1851.400	1850.000	1908.900	1910.000
	50	3.91	1850.970	1850.000	1909.250	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.680	1850.000	1909.590	1910.000
	20	4.50	1851.090	1850.000	1909.290	1910.000

Test Mode:	8PSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1850.990	1850.000	1909.600	1910.000
	-20	3.91	1851.180	1850.000	1909.470	1910.000
	-10	3.91	1851.200	1850.000	1909.440	1910.000
	0	3.91	1851.870	1850.000	1909.660	1910.000
	10	3.91	1851.370	1850.000	1908.910	1910.000
	20	3.91	1851.200	1850.000	1908.530	1910.000
	30	3.91	1850.840	1850.000	1909.130	1910.000
	40	3.91	1850.780	1850.000	1909.300	1910.000
	50	3.91	1850.920	1850.000	1909.420	1910.000
Frequency Stability vs. Voltage	20	3.45	1851.340	1850.000	1908.130	1910.000
	20	4.50	1850.680	1850.000	1909.360	1910.000

WCDMA Mode

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1850.630	1850.000	1909.370	1910.000
	-20	3.91	1850.900	1850.000	1909.050	1910.000
	-10	3.91	1850.870	1850.000	1908.750	1910.000
	0	3.91	1851.230	1850.000	1908.360	1910.000
	10	3.91	1851.330	1850.000	1909.130	1910.000
	20	3.91	1850.610	1850.000	1908.110	1910.000
	30	3.91	1851.700	1850.000	1909.050	1910.000
	40	3.91	1850.890	1850.000	1909.280	1910.000
	50	3.91	1850.730	1850.000	1908.400	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.690	1850.000	1909.620	1910.000
	20	4.50	1850.890	1850.000	1909.080	1910.000

AWS Band

WCDMA B4

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1710.380	1710.000	1754.520	1755.000
	-20	3.91	1711.270	1710.000	1753.770	1755.000
	-10	3.91	1711.150	1710.000	1754.150	1755.000
	0	3.91	1711.300	1710.000	1754.150	1755.000
	10	3.91	1710.900	1710.000	1753.570	1755.000
	20	3.91	1711.660	1710.000	1753.880	1755.000
	30	3.91	1711.110	1710.000	1753.590	1755.000
	40	3.91	1711.160	1710.000	1753.670	1755.000
	50	3.91	1711.190	1710.000	1754.740	1755.000
Frequency Stability vs. Voltage	20	3.45	1710.550	1710.000	1753.710	1755.000
	20	4.50	1711.100	1710.000	1754.200	1755.000

LTE

Band 2

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1851.180	1850.000	1909.030	1910.000
	-20	3.91	1851.110	1850.000	1908.840	1910.000
	-10	3.91	1850.630	1850.000	1909.610	1910.000
	0	3.91	1850.900	1850.000	1909.140	1910.000
	10	3.91	1850.810	1850.000	1908.700	1910.000
	20	3.91	1851.330	1850.000	1909.650	1910.000
	30	3.91	1850.880	1850.000	1909.330	1910.000
	40	3.91	1850.310	1850.000	1908.390	1910.000
	50	3.91	1850.510	1850.000	1909.180	1910.000
Frequency Stability vs. Voltage	20	3.45	1851.070	1850.000	1908.350	1910.000
	20	4.50	1850.150	1850.000	1908.680	1910.000
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1851.180	1850.000	1909.030	1910.000
	-20	3.91	1851.110	1850.000	1908.840	1910.000
	-10	3.91	1850.630	1850.000	1909.610	1910.000
	0	3.91	1850.900	1850.000	1909.140	1910.000
	10	3.91	1850.810	1850.000	1908.700	1910.000
	20	3.91	1851.330	1850.000	1909.650	1910.000
	30	3.91	1850.880	1850.000	1909.330	1910.000
	40	3.91	1850.310	1850.000	1908.390	1910.000
	50	3.91	1850.510	1850.000	1909.180	1910.000
Frequency Stability vs. Voltage	20	3.45	1851.070	1850.000	1908.350	1910.000
	20	4.50	1850.150	1850.000	1908.680	1910.000

Band 4

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1710.720	1710.00	1753.560	1755
	-20	3.91	1710.880	1710.00	1753.750	1755
	-10	3.91	1711.180	1710.00	1754.880	1755
	0	3.91	1710.940	1710.00	1754.600	1755
	10	3.91	1710.800	1710.00	1754.350	1755
	20	3.91	1711.220	1710.00	1753.650	1755
	30	3.91	1711.040	1710.00	1754.170	1755
	40	3.91	1710.130	1710.00	1753.910	1755
	50	3.91	1710.990	1710.00	1753.620	1755
Frequency Stability vs. Voltage	20	3.45	1710.440	1710.00	1753.850	1755
	20	4.50	1711.340	1710.00	1753.740	1755
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (VDC)	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1710.410	1710.00	1753.290	1755
	-20	3.91	1710.830	1710.00	1753.830	1755
	-10	3.91	1711.310	1710.00	1753.990	1755
	0	3.91	1710.270	1710.00	1753.480	1755
	10	3.91	1711.090	1710.00	1754.700	1755
	20	3.91	1710.560	1710.00	1753.980	1755
	30	3.91	1711.090	1710.00	1754.100	1755
	40	3.91	1710.560	1710.00	1753.750	1755
	50	3.91	1710.610	1710.00	1754.120	1755
Frequency Stability vs. Voltage	20	3.45	1711.140	1710.00	1754.100	1755
	20	4.50	1710.500	1710.00	1753.680	1755

Band 5

Test Modulation:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	-1.11	-0.001	2.5
	-20	3.91	2.4	0.003	2.5
	-10	3.91	-2.22	-0.003	2.5
	0	3.91	1.08	0.001	2.5
	10	3.91	-3.06	-0.004	2.5
	20	3.91	0.09	0.000	2.5
	30	3.91	-1.35	-0.002	2.5
	40	3.91	3.81	0.005	2.5
	50	3.91	-1.53	-0.002	2.5
Frequency Stability vs. Voltage	20	3.45	-2.55	-0.003	2.5
	20	4.50	1.17	0.001	2.5
Test Modulation:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	1.68	0.002	2.5
	-20	3.91	2.64	0.003	2.5
	-10	3.91	0.99	0.001	2.5
	0	3.91	2.31	0.003	2.5
	10	3.91	1.23	0.001	2.5
	20	3.91	0.72	0.001	2.5
	30	3.91	-0.3	0.000	2.5
	40	3.91	0.57	0.001	2.5
	50	3.91	-1.23	-0.001	2.5
Frequency Stability vs. Voltage	20	3.45	-3.84	-0.005	2.5
	20	4.50	-1.65	-0.002	2.5

Band 7

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2500.240	2500.00	2569.680	2570
	-20	3.91	2500.050	2500.00	2569.320	2570
	-10	3.91	2501.420	2500.00	2569.830	2570
	0	3.91	2501.330	2500.00	2569.250	2570
	10	3.91	2501.330	2500.00	2569.180	2570
	20	3.91	2500.540	2500.00	2568.750	2570
	30	3.91	2501.300	2500.00	2569.150	2570
	40	3.91	2501.330	2500.00	2569.500	2570
Frequency Stability vs. Voltage	20	3.45	2500.550	2500.00	2569.040	2570
	20	4.50	2500.640	2500.00	2568.720	2570
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2500.350	2500.00	2569.180	2570
	-20	3.91	2501.750	2500.00	2569.500	2570
	-10	3.91	2501.160	2500.00	2569.810	2570
	0	3.91	2500.360	2500.00	2568.440	2570
	10	3.91	2501.300	2500.00	2568.680	2570
	20	3.91	2501.500	2500.00	2569.140	2570
	30	3.91	2501.580	2500.00	2568.490	2570
	40	3.91	2501.410	2500.00	2569.830	2570
Frequency Stability vs. Voltage	20	3.45	2501.210	2500.00	2568.760	2570
	20	4.50	2501.350	2500.00	2568.700	2570

Band 12

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	699.290	699.00	715.280	716.00
	-20	3.91	700.970	699.00	714.950	716.00
	-10	3.91	700.430	699.00	715.090	716.00
	0	3.91	700.010	699.00	715.280	716.00
	10	3.91	700.540	699.00	715.010	716.00
	20	3.91	699.570	699.00	714.540	716.00
	30	3.91	699.990	699.00	715.330	716.00
	40	3.91	700.690	699.00	715.670	716.00
	50	3.91	700.810	699.00	714.690	716.00
Frequency Stability vs. Voltage	20	3.45	700.060	699.00	714.780	716.00
	20	4.50	700.210	699.00	715.640	716.00
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	699.250	699.00	715.700	716.00
	-20	3.91	699.460	699.00	715.040	716.00
	-10	3.91	700.780	699.00	715.030	716.00
	0	3.91	700.420	699.00	715.150	716.00
	10	3.91	700.130	699.00	714.900	716.00
	20	3.91	699.290	699.00	715.010	716.00
	30	3.91	699.610	699.00	715.410	716.00
	40	3.91	700.070	699.00	714.300	716.00
	50	3.91	700.030	699.00	715.270	716.00
Frequency Stability vs. Voltage	20	3.45	700.060	699.00	715.090	716.00
	20	4.50	699.550	699.00	714.440	716.00

Band 13

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	778.480	777.00	786.390	787.00
	-20	3.91	777.410	777.00	785.550	787.00
	-10	3.91	778.040	777.00	786.150	787.00
	0	3.91	777.640	777.00	786.040	787.00
	10	3.91	777.850	777.00	785.650	787.00
	20	3.91	778.840	777.00	785.940	787.00
	30	3.91	777.280	777.00	785.910	787.00
	40	3.91	778.650	777.00	785.760	787.00
	50	3.91	778.490	777.00	786.410	787.00
Frequency Stability vs. Voltage	20	3.45	777.650	777.00	785.820	787.00
	20	4.50	778.770	777.00	786.120	787.00
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	778.120	777.00	786.890	787.00
	-20	3.91	778.090	777.00	785.750	787.00
	-10	3.91	777.880	777.00	786.140	787.00
	0	3.91	777.200	777.00	786.290	787.00
	10	3.91	778.150	777.00	786.150	787.00
	20	3.91	777.240	777.00	786.360	787.00
	30	3.91	777.370	777.00	785.910	787.00
	40	3.91	778.150	777.00	786.500	787.00
	50	3.91	778.680	777.00	786.400	787.00
Frequency Stability vs. Voltage	20	3.45	777.910	777.00	785.640	787.00
	20	4.50	778.520	777.00	786.700	787.00

Band 17

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	704.810	704.00	714.510	716.00
	-20	3.91	704.990	704.00	715.820	716.00
	-10	3.91	704.850	704.00	714.410	716.00
	0	3.91	704.680	704.00	714.890	716.00
	10	3.91	705.640	704.00	715.600	716.00
	20	3.91	705.100	704.00	714.510	716.00
	30	3.91	705.230	704.00	714.620	716.00
	40	3.91	704.430	704.00	714.630	716.00
	50	3.91	705.070	704.00	715.260	716.00
Frequency Stability vs. Voltage	20	3.45	705.220	704.00	714.940	716.00
	20	4.50	705.250	704.00	715.450	716.00
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V ^{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	704.520	704.00	714.520	716.00
	-20	3.91	705.090	704.00	714.920	716.00
	-10	3.91	704.700	704.00	715.300	716.00
	0	3.91	704.330	704.00	714.930	716.00
	10	3.91	705.010	704.00	714.610	716.00
	20	3.91	704.850	704.00	715.150	716.00
	30	3.91	705.660	704.00	714.840	716.00
	40	3.91	704.940	704.00	714.450	716.00
	50	3.91	705.900	704.00	715.200	716.00
Frequency Stability vs. Voltage	20	3.45	704.900	704.00	715.140	716.00
	20	4.50	705.540	704.00	715.090	716.00

Band 38

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2570.930	2570.00	2619.090	2620
	-20	3.91	2570.570	2570.00	2619.590	2620
	-10	3.91	2570.710	2570.00	2619.290	2620
	0	3.91	2570.750	2570.00	2619.550	2620
	10	3.91	2571.160	2570.00	2619.100	2620
	20	3.91	2570.820	2570.00	2619.260	2620
	30	3.91	2570.990	2570.00	2618.650	2620
	40	3.91	2571.840	2570.00	2618.610	2620
	50	3.91	2570.660	2570.00	2619.140	2620
Frequency Stability vs. Voltage	20	3.45	2570.940	2570.00	2618.460	2620
	20	4.50	2570.230	2570.00	2619.040	2620
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2571.030	2570.00	2618.760	2620
	-20	3.91	2571.300	2570.00	2619.610	2620
	-10	3.91	2571.110	2570.00	2619.060	2620
	0	3.91	2570.530	2570.00	2618.990	2620
	10	3.91	2570.840	2570.00	2618.900	2620
	20	3.91	2571.340	2570.00	2619.890	2620
	30	3.91	2571.120	2570.00	2618.960	2620
	40	3.91	2571.050	2570.00	2619.320	2620
	50	3.91	2571.030	2570.00	2618.470	2620
Frequency Stability vs. Voltage	20	3.45	2570.680	2570.00	2618.800	2620
	20	4.50	2571.480	2570.00	2618.680	2620

Band 40

LTE Band 40 Lower:						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2305.610	2305.000	2313.980	2315.000
	-20	3.91	2305.680	2305.000	2313.890	2315.000
	-10	3.91	2306.310	2305.000	2314.020	2315.000
	0	3.91	2305.640	2305.000	2314.290	2315.000
	10	3.91	2306.510	2305.000	2313.920	2315.000
	20	3.91	2306.750	2305.000	2313.880	2315.000
	30	3.91	2305.980	2305.000	2314.190	2315.000
	40	3.91	2305.890	2305.000	2313.480	2315.000
Frequency Stability vs. Voltage	20	3.45	2305.700	2305.000	2314.320	2315.000
	20	4.50	2305.970	2305.000	2314.630	2315.000
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2305.640	2305.000	2313.410	2315.000
	-20	3.91	2306.040	2305.000	2314.230	2315.000
	-10	3.91	2306.630	2305.000	2313.610	2315.000
	0	3.91	2305.240	2305.000	2313.640	2315.000
	10	3.91	2305.710	2305.000	2313.440	2315.000
	20	3.91	2305.510	2305.000	2313.390	2315.000
	30	3.91	2306.650	2305.000	2314.060	2315.000
	40	3.91	2306.480	2305.000	2314.320	2315.000
Frequency Stability vs. Voltage	20	3.45	2305.980	2305.000	2313.960	2315.000
	20	4.50	2305.410	2305.000	2313.450	2315.000

LTE Band 40 Upper:						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2350.980	2350.000	2359.000	2360.000
	-20	3.91	2351.020	2350.000	2359.190	2360.000
	-10	3.91	2350.170	2350.000	2359.290	2360.000
	0	3.91	2351.300	2350.000	2359.420	2360.000
	10	3.91	2351.390	2350.000	2359.120	2360.000
	20	3.91	2351.570	2350.000	2359.660	2360.000
	30	3.91	2350.650	2350.000	2359.710	2360.000
	40	3.91	2351.110	2350.000	2359.300	2360.000
	50	3.91	2350.110	2350.000	2359.010	2360.000
Frequency Stability vs. Voltage	20	3.45	2351.430	2350.000	2359.440	2360.000
	20	4.50	2350.880	2350.000	2359.120	2360.000
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2351.170	2350.000	2359.440	2360.000
	-20	3.91	2350.520	2350.000	2358.850	2360.000
	-10	3.91	2351.100	2350.000	2358.410	2360.000
	0	3.91	2350.570	2350.000	2359.390	2360.000
	10	3.91	2351.000	2350.000	2359.020	2360.000
	20	3.91	2351.010	2350.000	2359.250	2360.000
	30	3.91	2350.940	2350.000	2359.360	2360.000
	40	3.91	2351.210	2350.000	2358.910	2360.000
	50	3.91	2350.480	2350.000	2358.980	2360.000
Frequency Stability vs. Voltage	20	3.45	2350.750	2350.000	2359.030	2360.000
	20	4.50	2350.990	2350.000	2359.210	2360.000

Band 41

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2496.560	2496.00	2688.590	2690
	-20	3.91	2497.750	2496.00	2688.330	2690
	-10	3.91	2496.830	2496.00	2688.600	2690
	0	3.91	2497.250	2496.00	2688.590	2690
	10	3.91	2497.430	2496.00	2689.090	2690
	20	3.91	2497.620	2496.00	2688.740	2690
	30	3.91	2496.950	2496.00	2688.800	2690
	40	3.91	2497.710	2496.00	2689.290	2690
	50	3.91	2497.710	2496.00	2689.060	2690
Frequency Stability vs. Voltage	20	3.45	2496.730	2496.00	2688.610	2690
	20	4.50	2496.300	2496.00	2688.480	2690
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2496.280	2496.00	2689.390	2690
	-20	3.91	2496.770	2496.00	2689.020	2690
	-10	3.91	2497.400	2496.00	2688.670	2690
	0	3.91	2496.870	2496.00	2688.910	2690
	10	3.91	2496.670	2496.00	2689.260	2690
	20	3.91	2497.500	2496.00	2689.440	2690
	30	3.91	2496.910	2496.00	2689.320	2690
	40	3.91	2496.840	2496.00	2688.490	2690
	50	3.91	2497.130	2496.00	2689.280	2690
Frequency Stability vs. Voltage	20	3.45	2496.980	2496.00	2688.800	2690
	20	4.50	2496.610	2496.00	2688.810	2690

Band 42

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	3451.080	3450.00	3548.900	3550.00
	-20	3.91	3450.750	3450.00	3549.820	3550.00
	-10	3.91	3451.360	3450.00	3549.120	3550.00
	0	3.91	3450.860	3450.00	3549.110	3550.00
	10	3.91	3450.500	3450.00	3548.580	3550.00
	20	3.91	3450.430	3450.00	3549.610	3550.00
	30	3.91	3450.570	3450.00	3549.380	3550.00
	40	3.91	3451.400	3450.00	3549.440	3550.00
	50	3.91	3450.570	3450.00	3549.320	3550.00
Frequency Stability vs. Voltage	20	3.45	3450.470	3450.00	3548.580	3550.00
	20	4.50	3451.030	3450.00	3549.190	3550.00
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	3451.100	3450.00	3548.550	3550.00
	-20	3.91	3451.460	3450.00	3548.330	3550.00
	-10	3.91	3451.390	3450.00	3549.240	3550.00
	0	3.91	3450.450	3450.00	3548.750	3550.00
	10	3.91	3450.610	3450.00	3548.290	3550.00
	20	3.91	3450.700	3450.00	3549.770	3550.00
	30	3.91	3450.810	3450.00	3548.590	3550.00
	40	3.91	3450.520	3450.00	3549.210	3550.00
	50	3.91	3450.960	3450.00	3548.770	3550.00
Frequency Stability vs. Voltage	20	3.45	3451.630	3450.00	3549.050	3550.00
	20	4.50	3451.280	3450.00	3548.190	3550.00

Band 66

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1710.950	1710.00	1779.740	1780
	-20	3.91	1710.790	1710.00	1778.470	1780
	-10	3.91	1711.020	1710.00	1779.110	1780
	0	3.91	1710.940	1710.00	1778.500	1780
	10	3.91	1711.010	1710.00	1779.200	1780
	20	3.91	1710.800	1710.00	1778.990	1780
	30	3.91	1711.630	1710.00	1779.120	1780
	40	3.91	1711.100	1710.00	1778.770	1780
	50	3.91	1710.360	1710.00	1779.000	1780
Frequency Stability vs. Voltage	20	3.45	1710.960	1710.00	1779.470	1780
	20	4.50	1710.660	1710.00	1779.580	1780
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1711.460	1710.00	1778.770	1780
	-20	3.91	1710.290	1710.00	1778.720	1780
	-10	3.91	1710.470	1710.00	1779.260	1780
	0	3.91	1711.430	1710.00	1778.400	1780
	10	3.91	1710.740	1710.00	1778.590	1780
	20	3.91	1711.510	1710.00	1778.350	1780
	30	3.91	1711.370	1710.00	1779.290	1780
	40	3.91	1711.050	1710.00	1778.630	1780
	50	3.91	1710.950	1710.00	1778.710	1780
Frequency Stability vs. Voltage	20	3.45	1710.280	1710.00	1778.890	1780
	20	4.50	1711.440	1710.00	1779.490	1780

EUT PHOTOGRAPHS

Please refer to the attachment SZ1240108-01736E-RF External photo and SZ1240108-01736E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment SZ1240108-01736E-RF Test Setup photo.

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