



TESTREPORT

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: RA221229-64347E-RF-00E
FCC ID: 2ADYY-CK6N

Test Standard (s)

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

Sample Description

Product Type: Mobile Phone
Model No.: CK6n
Multiple Model(s) No.: N/A
Trade Mark: TECNO
Date Received: 2022/12/29
Report Date: 2023/02/16

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Approved By:

Andy Yu
EMC Engineer

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EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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FCC -2G,3G,4G

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	RA221229-64347E-RF-00E	Original Report	2023-02-16

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

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(RX) LTE Band 12: 699-716MHz(TX); 729-746MHz(RX) LTE Band 17: 704-716MHz(TX); 734-746MHz(RX) LTE Band 38: 2570-2620MHz(TX/RX) LTE Band 41: 2535-2655MHz(TX/RX) LTE Band 66: 1710-1780MHz(TX); 2110-2180MHz(RX)
Modulation Technique	2G: GMSK, 8PSK 3G: BPSK, QPSK, 16QAM 4G: QPSK, 16QAM
Antenna Specification*	GSM850/WCDMA Band 5/LTE Band 5: -3.8 dBi PCS 1900/WCDMA Band 2/ LTE Band 2: -0.5dBi WCDMA Band 4/ LTE Band 4/ LTE Band 66:-2.3dBi LTE Band 7/ LTE Band 38/LTE Band 41: 0.8 dBi LTE Band 12/ LTE Band 17: -5.3dBi(provided by the applicant)
Voltage Range	DC 3.87V from battery or DC 5V/7.5V from adapter
Sample serial number	1WXS-2 for Radiated Emissions Test 1WXP-1 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Extreme condition*	L.V.: Low Voltage 3.45V _{DC} N.V.: Normal Voltage 3.87V _{DC} H.V.: High Voltage 4.45V _{DC} (provided by the applicant)
Adapter information	Model: U180TSA Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 2.4A or DC 7.5V, 2.4A 18.0W Max

Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part 24-Subpart E, Part 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

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. 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		±0.73dB
Unwanted Emission, conducted		±1.6dB
RF Frequency		±0.082*10 ⁻⁷
Emissions, Radiated	30MHz - 1GHz	±4.28dB
	1GHz - 18GHz	±4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature		±1 °C
Humidity		±6%
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 Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

Test was performed as below table:

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	707.5	711
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 B41	5	2537.5	2595	2652.5
	10	2540	2595	2650
	15	2542.5	2595	2647.5
	20	2545	2595	2645
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.

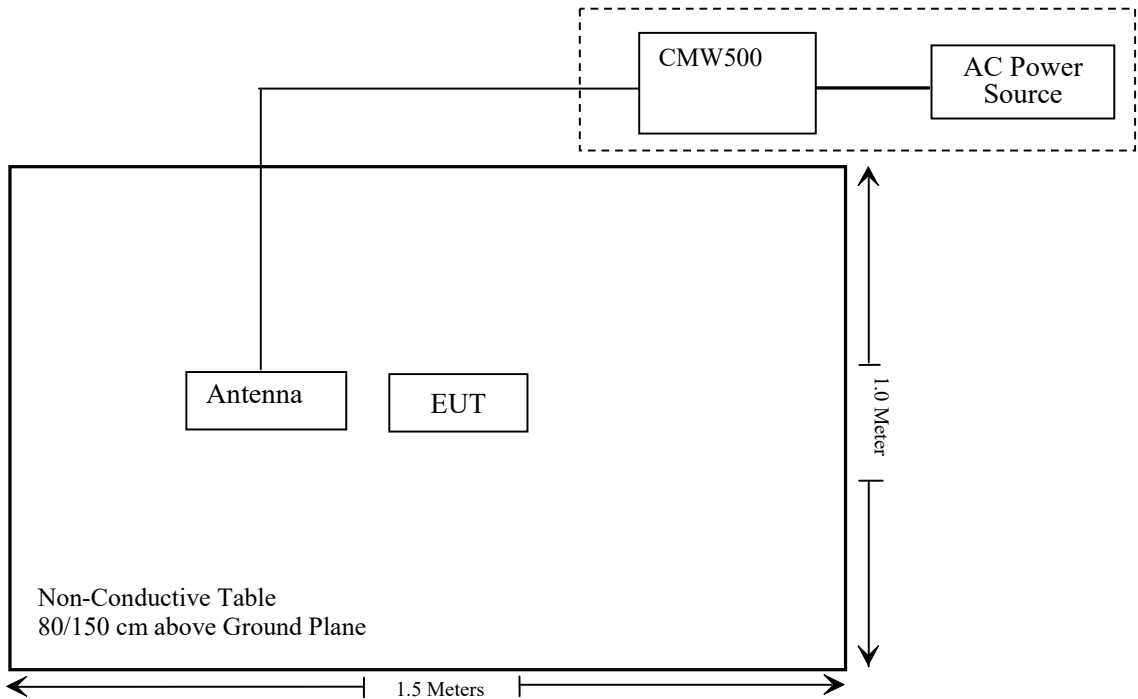
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	154606

Support Cable Description

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

Block Diagram of Test Setup



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 (c) (d) (h)	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 (g) (h) (m)	Band Edge	Compliant
§ 2.1055; § 22.355; § 24.235; §27.54;	Frequency stability	Compliant

Note: * Please refer to SAR report number: CR221264348-SA.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
Quinstar	Amplifier	QLW-184055 36-J0	15964001002	2022/11/08	2023/11/07
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.15	N600	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.16	N650	2022/11/25	2023/11/24
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2022/11/25	2023/11/24
CD	High Pass Filter	HPM-1.2/18G -60	110	2022/11/25	2023/11/24
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2022/11/30	2025/11/29
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-655	2022/12/26	2025/12/25
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2022/11/30	2025/11/29
PASTERNAK	Horn Antenn	PE9852/2F-20	1120 (ATC-BA-024-1)	2023/01/04	2026/01/03
PASTERNAK	Horn Antenn	PE9852/2F-20	1120 (ATC-BA-025-1)	2023/01/04	2026/01/03
PASTERNAK	Horn Antenn	PE9850/2F-20	720 (ATC-BA-024)	2023/01/04	2026/01/03
PASTERNAK	Horn Antenn	PE9850/2F-20	720 (ATC-BA-025)	2023/01/04	2026/01/03
Agilent	Signal Generator	N5183A	MY51040755	2022/11/25	2023/11/24

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101948	2022/11/25	2023/11/24
Rohde & Schwarz	Spectrum Analyzer	FSU26	200982	2022/07/04	2023/07/03
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	154606	2022/11/25	2023/11/24
Mini-Circuits	Power Splitter	DC-18000MHz	SF10944151S	2022/11/25	2023/11/24
REALE	Temp. & Humid. Chamber	RHP-800BT	R20170318310	2022/11/23	2023/11/22
Unknown	RF Coaxial Cable	No.31	RF-01	Each time	
Fluke	Multi Meter	45	7664009	2022/12/14	2023/12/13
Manson	DC Power Source	KPS-6604	ATCS-205	NCR	NCR

* Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. 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§1.1307 and §2.1093.

Test Result

Compliant, please refer to the SAR report: CR221264348-SA.

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(c)(d)(h)- 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.

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

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

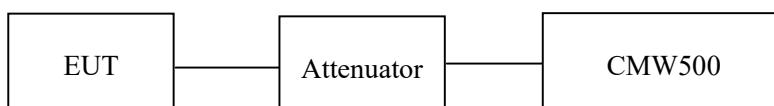
According to §27.50(d), Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

According to §27.50(h), the maximum EIRP must not exceed 2Watts (33dBm) for 2496-2690 MHz.

Test Procedure

Conducted method:

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



Note: the path loss (cable loss and attenuator) has included in the result.

Test Data

Environmental Conditions

Temperature:	24.8~27.2℃
Relative Humidity:	52.1~56.8 %
ATM Pressure:	101.0 kPa

The testing was performed by Glenn Jiang from 2023-01-03 to 2023-02-09.

Conducted Power**Cellular Band (Part 22H)**

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	ERP(dBm)	Limit (dBm)
GSM	128	824.2	33.10	27.15	38.45
	190	836.6	33.10	27.15	38.45
	251	848.8	33.10	27.15	38.45

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				ERP(dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
GPRS	128	824.2	33.00	32.00	30.13	29.05	27.05	26.05	24.18	23.10	38.45
	190	836.6	33.01	32.06	30.19	29.10	27.06	26.11	24.24	23.15	38.45
	251	848.8	33.04	32.08	30.25	29.18	27.09	26.13	24.30	23.23	38.45

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				ERP(dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
EGPRS	128	824.2	27.45	26.22	24.08	22.99	21.50	20.27	18.13	17.04	38.45
	190	836.6	27.55	26.35	24.22	23.00	21.60	20.40	18.27	17.05	38.45
	251	848.8	27.60	26.32	24.20	22.91	21.65	20.37	18.25	16.96	38.45

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 5)	RMC12.2k		23.23	23.27	23.32	17.28	17.32	17.37
	HSDPA	1	22.11	22.17	22.24	16.16	16.22	16.29
		2	22.08	22.05	22.11	16.13	16.10	16.16
		3	22.04	22.08	22.13	16.09	16.13	16.18
		4	22.03	22.06	22.09	16.08	16.11	16.14
	HSUPA	1	22.84	22.81	22.96	16.89	16.86	17.01
		2	22.77	22.75	22.58	16.82	16.80	16.63
		3	22.69	22.64	22.77	16.74	16.69	16.82
		4	22.58	22.59	22.68	16.63	16.64	16.73
		5	22.39	22.42	22.59	16.44	16.47	16.64
	HSPA+	1	22.41	22.31	22.37	16.46	16.36	16.42

Note: ERP (dBm) = Conducted Power (dBm) + Antenna Gain (dBd)

For GSM850 / WCDMA Band5: Antenna Gain = -3.80dB_i = -5.95dBd (0dBd=2.15dB_i)

Limit: ERP ≤ 38.45dBm

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	EIRP(dBm)	Limit (dBm)
GSM	512	1850.2	30.40	29.90	33
	661	1880.0	30.30	29.80	33
	810	1909.8	30.30	29.80	33

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				EIRP(dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
GPRS	512	1850.2	30.40	29.09	26.90	26.33	29.90	28.59	26.40	25.83	33
	661	1880.0	30.32	29.00	26.81	26.22	29.82	28.50	26.31	25.72	33
	810	1909.8	30.31	28.97	26.84	26.29	29.81	28.47	26.34	25.79	33

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				EIRP(dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
EGPRS	512	1850.2	27.66	26.59	24.56	23.31	27.16	26.09	24.06	22.81	33
	661	1880.0	27.67	26.66	24.56	23.29	27.17	26.16	24.06	22.79	33
	810	1909.8	27.63	26.56	24.48	23.17	27.13	26.06	23.98	22.67	33

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 2)	RMC12.2k		22.55	22.48	22.61	22.05	21.98	22.11
	HSDPA	1	21.48	21.47	21.57	20.98	20.97	21.07
		2	21.55	21.38	21.44	21.05	20.88	20.94
		3	21.63	21.57	21.52	21.13	21.07	21.02
		4	21.49	21.39	21.48	20.99	20.89	20.98
	HSUPA	1	21.63	21.62	21.63	21.13	21.12	21.13
		2	21.55	21.33	21.44	21.05	20.83	20.94
		3	21.38	21.58	21.48	20.88	21.08	20.98
		4	21.64	21.54	21.52	21.14	21.04	21.02
		5	21.49	21.61	21.36	20.99	21.11	20.86
	HSPA+	1	21.67	21.39	21.42	21.17	20.89	20.92

Note: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi)

For PCS1900 / WCDMA Band2: Antenna Gain = -0.5dBi

Limit: EIRP ≤ 33dBm

AWS Band

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 4)	RMC12.2k		22.05	22.17	22.17	19.75	19.87	19.87
	HSDPA	1	20.97	21.08	21.10	18.67	18.78	18.80
		2	20.86	21.03	21.17	18.56	18.73	18.87
		3	20.69	21.04	21.16	18.39	18.74	18.86
		4	20.79	21.39	21.28	18.49	19.09	18.98
	HSUPA	1	21.61	21.69	21.69	19.31	19.39	19.39
		2	21.55	21.43	21.58	19.25	19.13	19.28
		3	21.42	21.49	21.42	19.12	19.19	19.12
		4	21.46	21.28	21.39	19.16	18.98	19.09
		5	21.38	21.39	21.42	19.08	19.09	19.12
	HSPA+	1	21.29	21.49	21.46	18.99	19.19	19.16

Note: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi)

For Band4: Antenna Gain = -2.30dBi

Limit: EIRP ≤ 30dBm

LTE Band 2

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.41	22.38	22.56	21.91	21.88	22.06
		RB1#3	22.54	22.51	22.76	22.04	22.01	22.26
		RB1#5	22.41	22.36	22.57	21.91	21.86	22.07
		RB3#0	22.49	22.46	22.62	21.99	21.96	22.12
		RB3#3	22.52	22.46	22.62	22.02	21.96	22.12
		RB6#0	21.47	21.43	21.65	20.97	20.93	21.15
	16QAM	RB1#0	21.41	21.39	21.65	20.91	20.89	21.15
		RB1#3	21.61	21.55	21.80	21.11	21.05	21.30
		RB1#5	21.43	21.40	21.66	20.93	20.90	21.16
		RB3#0	21.52	21.60	21.53	21.02	21.10	21.03
		RB3#3	21.53	21.64	21.56	21.03	21.14	21.06
		RB6#0	20.42	20.43	20.65	19.92	19.93	20.15
3.0	QPSK	RB1#0	23.04	22.44	22.57	22.54	21.94	22.07
		RB1#8	22.54	22.43	22.62	22.04	21.93	22.12
		RB1#14	22.48	22.39	22.64	21.98	21.89	22.14
		RB6#0	21.46	21.44	21.59	20.96	20.94	21.09
		RB6#9	21.45	21.45	21.59	20.95	20.95	21.09
		RB15#0	21.50	21.45	21.58	21.00	20.95	21.08
	16QAM	RB1#0	21.51	22.00	21.70	21.01	21.50	21.20
		RB1#8	21.49	21.97	21.74	20.99	21.47	21.24
		RB1#14	21.48	21.96	21.75	20.98	21.46	21.25
		RB6#0	20.38	20.46	20.56	19.88	19.96	20.06
		RB6#9	20.35	20.46	20.64	19.85	19.96	20.14
		RB15#0	20.53	20.50	20.52	20.03	20.00	20.02

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.57	22.46	22.44	22.07	21.96	21.94
		RB1#13	22.52	22.50	22.64	22.02	22.00	22.14
		RB1#24	22.33	22.39	22.57	21.83	21.89	22.07
		RB15#0	21.48	21.45	21.52	20.98	20.95	21.02
		RB15#10	21.48	21.47	21.52	20.98	20.97	21.02
		RB25#0	21.46	21.42	21.50	20.96	20.92	21.00
	16QAM	RB1#0	21.46	21.26	21.69	20.96	20.76	21.19
		RB1#13	21.59	21.37	21.90	21.09	20.87	21.40
		RB1#24	21.50	21.28	21.82	21.00	20.78	21.32
		RB15#0	20.52	20.48	20.51	20.02	19.98	20.01
		RB15#10	20.48	20.48	20.52	19.98	19.98	20.02
		RB25#0	20.48	20.46	20.50	19.98	19.96	20.00
10.0	QPSK	RB1#0	23.01	22.45	22.34	22.51	21.95	21.84
		RB1#25	22.66	22.59	22.56	22.16	22.09	22.06
		RB1#49	22.50	22.42	22.66	22.00	21.92	22.16
		RB25#0	21.52	21.47	21.33	21.02	20.97	20.83
		RB25#25	21.46	21.46	21.58	20.96	20.96	21.08
		RB50#0	21.47	21.46	21.45	20.97	20.96	20.95
	16QAM	RB1#0	21.49	22.00	21.49	20.99	21.50	20.99
		RB1#25	21.65	22.16	21.82	21.15	21.66	21.32
		RB1#49	21.48	21.78	21.76	20.98	21.28	21.26
		RB25#0	20.59	20.52	20.35	20.09	20.02	19.85
		RB25#25	20.55	20.54	20.57	20.05	20.04	20.07
		RB50#0	20.53	20.48	20.45	20.03	19.98	19.95

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	22.40	22.35	22.30	21.90	21.85	21.80
		RB1#38	22.53	22.47	22.46	22.03	21.97	21.96
		RB1#74	22.36	22.40	22.48	21.86	21.90	21.98
		RB36#0	21.54	21.53	21.42	21.04	21.03	20.92
		RB36#39	21.50	21.54	21.60	21.00	21.04	21.10
		RB75#0	21.53	21.53	21.46	21.03	21.03	20.96
	16QAM	RB1#0	21.79	22.02	21.41	21.29	21.52	20.91
		RB1#38	21.93	22.00	21.55	21.43	21.50	21.05
		RB1#74	21.77	21.92	21.59	21.27	21.42	21.09
		RB36#0	20.47	20.47	20.34	19.97	19.97	19.84
		RB36#39	20.45	20.50	20.52	19.95	20.00	20.02
		RB75#0	20.49	20.53	20.49	19.99	20.03	19.99
20.0	QPSK	RB1#0	22.28	22.27	22.21	21.78	21.77	21.71
		RB1#50	22.65	22.71	22.50	22.15	22.21	22.00
		RB1#99	22.25	22.27	22.35	21.75	21.77	21.85
		RB50#0	21.55	21.53	21.50	21.05	21.03	21.00
		RB50#50	21.50	21.49	21.62	21.00	20.99	21.12
		RB100#0	21.57	21.55	21.55	21.07	21.05	21.05
	16QAM	RB1#0	21.55	21.47	21.76	21.05	20.97	21.26
		RB1#50	22.00	21.88	22.04	21.50	21.38	21.54
		RB1#99	21.48	21.49	21.85	20.98	20.99	21.35
		RB50#0	20.57	20.50	20.47	20.07	20.00	19.97
		RB50#50	20.49	20.49	20.59	19.99	19.99	20.09
		RB100#0	20.56	20.54	20.49	20.06	20.04	19.99

Note: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi)

For Band2: Antenna Gain = -0.50dBi

Limit: EIRP ≤ 33dBm

LTE Band 4

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	20.47	20.42	20.54	18.17	18.12	18.24
		RB1#3	20.69	20.56	21.09	18.39	18.26	18.79
		RB1#5	20.51	20.40	20.55	18.21	18.10	18.25
		RB3#0	20.59	20.52	20.67	18.29	18.22	18.37
		RB3#3	20.61	20.62	20.60	18.31	18.32	18.30
		RB6#0	19.54	19.61	19.51	17.24	17.31	17.21
	16QAM	RB1#0	19.54	19.46	19.77	17.24	17.16	17.47
		RB1#3	19.70	19.78	19.94	17.40	17.48	17.64
		RB1#5	19.56	19.66	19.68	17.26	17.36	17.38
		RB3#0	19.62	19.97	19.65	17.32	17.67	17.35
		RB3#3	19.64	20.12	19.61	17.34	17.82	17.31
		RB6#0	18.52	18.93	18.82	16.22	16.63	16.52
3.0	QPSK	RB1#0	21.08	20.54	20.81	18.78	18.24	18.51
		RB1#8	21.04	20.96	21.04	18.74	18.66	18.74
		RB1#14	21.07	20.84	20.79	18.77	18.54	18.49
		RB6#0	19.97	19.92	19.79	17.67	17.62	17.49
		RB6#9	19.80	19.93	19.82	17.50	17.63	17.52
		RB15#0	19.55	19.97	19.68	17.25	17.67	17.38
	16QAM	RB1#0	19.60	20.51	19.80	17.30	18.21	17.50
		RB1#8	19.57	20.49	19.87	17.27	18.19	17.57
		RB1#14	19.53	20.49	19.79	17.23	18.19	17.49
		RB6#0	18.46	19.06	18.80	16.16	16.76	16.50
		RB6#9	18.48	19.03	18.98	16.18	16.73	16.68
		RB15#0	18.64	19.10	18.98	16.34	16.80	16.68

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	20.94	20.41	20.52	18.64	18.11	18.22
		RB1#13	21.08	20.6	20.84	18.78	18.30	18.54
		RB1#24	20.55	20.47	20.56	18.25	18.17	18.26
		RB15#0	19.59	19.55	19.78	17.29	17.25	17.48
		RB15#10	19.66	19.74	19.68	17.36	17.44	17.38
		RB25#0	19.58	19.92	19.61	17.28	17.62	17.31
	16QAM	RB1#0	19.57	19.66	19.85	17.27	17.36	17.55
		RB1#13	19.67	19.71	20.01	17.37	17.41	17.71
		RB1#24	19.57	19.52	19.76	17.27	17.22	17.46
		RB15#0	18.56	19.02	18.58	16.26	16.72	16.28
		RB15#10	18.63	19.07	18.78	16.33	16.77	16.48
		RB25#0	18.56	19.08	18.78	16.26	16.78	16.48
10.0	QPSK	RB1#0	21.06	20.52	20.51	18.76	18.22	18.21
		RB1#25	21.22	20.84	20.72	18.92	18.54	18.42
		RB1#49	21.08	20.49	20.51	18.78	18.19	18.21
		RB25#0	20.03	19.85	19.58	17.73	17.55	17.28
		RB25#25	20.21	19.94	19.80	17.91	17.64	17.50
		RB50#0	20.04	19.92	19.82	17.74	17.62	17.52
	16QAM	RB1#0	19.55	20.36	19.65	17.25	18.06	17.35
		RB1#25	19.64	20.60	19.79	17.34	18.30	17.49
		RB1#49	19.52	20.09	19.65	17.22	17.79	17.35
		RB25#0	18.60	19.15	18.77	16.30	16.85	16.47
		RB25#25	18.74	19.09	18.82	16.44	16.79	16.52
		RB50#0	18.58	19.00	18.78	16.28	16.70	16.48

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	21.01	20.52	20.37	18.71	18.22	18.07
		RB1#38	21.13	20.88	20.61	18.83	18.58	18.31
		RB1#74	20.99	20.36	20.42	18.69	18.06	18.12
		RB36#0	20.03	19.92	19.56	17.73	17.62	17.26
		RB36#39	20.15	19.95	19.57	17.85	17.65	17.27
		RB75#0	20.10	19.82	19.57	17.80	17.52	17.27
	16QAM	RB1#0	20.33	20.18	19.54	18.03	17.88	17.24
		RB1#38	20.27	20.36	19.65	17.97	18.06	17.35
		RB1#74	20.14	20.14	19.56	17.84	17.84	17.26
		RB36#0	18.78	18.99	18.61	16.48	16.69	16.31
		RB36#39	19.08	19.03	18.54	16.78	16.73	16.24
		RB75#0	19.07	19.03	18.64	16.77	16.73	16.34
20.0	QPSK	RB1#0	20.90	20.32	20.26	18.60	18.02	17.96
		RB1#50	21.24	20.91	20.74	18.94	18.61	18.44
		RB1#99	20.86	20.15	20.31	18.56	17.85	18.01
		RB50#0	19.91	19.75	19.59	17.61	17.45	17.29
		RB50#50	20.13	19.92	19.56	17.83	17.62	17.26
		RB100#0	20.06	19.69	19.56	17.76	17.39	17.26
	16QAM	RB1#0	19.72	19.86	19.57	17.42	17.56	17.27
		RB1#50	20.34	20.27	20.02	18.04	17.97	17.72
		RB1#99	19.51	19.79	19.61	17.21	17.49	17.31
		RB50#0	18.75	18.88	18.60	16.45	16.58	16.30
		RB50#50	19.10	18.91	18.58	16.80	16.61	16.28
		RB100#0	19.07	18.96	18.65	16.77	16.66	16.35

Note: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain (dBi)

For Band4: Antenna Gain = -2.30dBi

Limit: EIRP ≤ 30dBm

LTE Band 5

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.89	22.37	22.38	16.94	16.42	16.43
		RB1#3	22.51	22.53	22.64	16.56	16.58	16.69
		RB1#5	22.33	22.37	22.38	16.38	16.42	16.43
		RB3#0	22.50	22.48	22.50	16.55	16.53	16.55
		RB3#3	22.44	22.47	22.59	16.49	16.52	16.64
		RB6#0	22.41	22.46	22.44	16.46	16.51	16.49
	16QAM	RB1#0	22.38	22.54	22.38	16.43	16.59	16.43
		RB1#3	22.52	22.68	22.60	16.57	16.73	16.65
		RB1#5	22.39	22.49	22.40	16.44	16.54	16.45
		RB3#0	22.63	22.45	22.56	16.68	16.50	16.61
		RB3#3	22.64	22.45	22.53	16.69	16.50	16.58
		RB6#0	22.16	22.21	22.10	16.21	16.26	16.15
3.0	QPSK	RB1#0	22.93	22.41	22.42	16.98	16.46	16.47
		RB1#8	22.98	22.38	22.43	17.03	16.43	16.48
		RB1#14	22.87	22.35	22.42	16.92	16.40	16.47
		RB6#0	22.83	22.36	22.38	16.88	16.41	16.43
		RB6#9	22.84	22.37	22.35	16.89	16.42	16.40
		RB15#0	22.88	22.43	22.46	16.93	16.48	16.51
	16QAM	RB1#0	22.86	23.03	22.53	16.91	17.08	16.58
		RB1#8	22.68	23.00	22.60	16.73	17.05	16.65
		RB1#14	22.60	22.97	22.60	16.65	17.02	16.65
		RB6#0	22.08	22.17	22.09	16.13	16.22	16.14
		RB6#9	21.98	22.14	22.17	16.03	16.19	16.22
		RB15#0	22.17	22.22	22.09	16.22	16.27	16.14

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.84	22.36	22.36	16.89	16.41	16.41
		RB1#13	22.93	22.48	22.45	16.98	16.53	16.50
		RB1#24	22.83	22.39	22.31	16.88	16.44	16.36
		RB15#0	21.89	21.44	21.46	15.94	15.49	15.51
		RB15#10	21.90	21.43	21.39	15.95	15.48	15.44
		RB25#0	22.87	22.45	22.43	16.92	16.50	16.48
	16QAM	RB1#0	22.90	22.21	22.63	16.95	16.26	16.68
		RB1#13	22.92	22.31	22.72	16.97	16.36	16.77
		RB1#24	22.83	22.24	22.60	16.88	16.29	16.65
		RB15#0	21.96	21.53	21.45	16.01	15.58	15.50
		RB15#10	21.86	21.52	21.38	15.91	15.57	15.43
		RB25#0	22.26	22.23	22.10	16.31	16.28	16.15
10.0	QPSK	RB1#0	22.97	22.63	22.44	17.02	16.68	16.49
		RB1#25	23.09	22.54	22.55	17.14	16.59	16.60
		RB1#49	22.95	22.39	22.42	17.00	16.44	16.47
		RB25#0	22.92	22.52	22.48	16.97	16.57	16.53
		RB25#25	22.92	22.40	22.41	16.97	16.45	16.46
		RB50#0	22.96	22.48	22.46	17.01	16.53	16.51
	16QAM	RB1#0	22.92	23.03	22.55	16.97	17.08	16.60
		RB1#25	23.03	23.14	22.66	17.08	17.19	16.71
		RB1#49	22.79	22.98	22.54	16.84	17.03	16.59
		RB25#0	22.72	22.27	22.21	16.77	16.32	16.26
		RB25#25	22.65	22.25	22.11	16.70	16.30	16.16
		RB50#0	22.46	22.21	22.17	16.51	16.26	16.22

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
 For Band5: Antenna Gain = -3.80dBi = -5.95dBd (0dBd=2.15dBi)
 Limit: ERP ≤ 38.45dBm

LTE Band 7

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	21.93	21.87	21.95	22.73	22.67	22.75
		RB1#13	22.06	21.97	22.09	22.86	22.77	22.89
		RB1#24	21.94	21.87	21.95	22.74	22.67	22.75
		RB15#0	20.97	20.96	21.04	21.77	21.76	21.84
		RB15#10	21.01	21.01	21.04	21.81	21.81	21.84
		RB25#0	20.93	20.93	20.99	21.73	21.73	21.79
	16QAM	RB1#0	21.11	20.91	20.81	21.91	21.71	21.61
		RB1#13	21.30	21.02	20.92	22.10	21.82	21.72
		RB1#24	21.13	20.91	20.81	21.93	21.71	21.61
		RB15#0	19.91	19.96	20.11	20.71	20.76	20.91
		RB15#10	19.98	20.03	20.07	20.78	20.83	20.87
		RB25#0	19.95	19.98	20.06	20.75	20.78	20.86
10.0	QPSK	RB1#0	21.99	21.99	22.01	22.79	22.79	22.81
		RB1#25	22.11	22.12	22.18	22.91	22.92	22.98
		RB1#49	21.97	21.99	22.03	22.77	22.79	22.83
		RB25#0	20.96	20.94	21.09	21.76	21.74	21.89
		RB25#25	20.98	21.00	21.05	21.78	21.80	21.85
		RB50#0	20.96	20.99	21.04	21.76	21.79	21.84
	16QAM	RB1#0	21.06	20.94	21.48	21.86	21.74	22.28
		RB1#25	21.17	21.07	21.62	21.97	21.87	22.42
		RB1#49	21.06	20.92	21.44	21.86	21.72	22.24
		RB25#0	19.93	20.01	20.13	20.73	20.81	20.93
		RB25#25	20.00	20.09	20.10	20.80	20.89	20.90
		RB50#0	19.97	20.00	20.02	20.77	20.80	20.82

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	21.90	21.89	21.98	22.70	22.69	22.78
		RB1#38	22.04	21.95	22.03	22.84	22.75	22.83
		RB1#74	21.87	21.88	21.93	22.67	22.68	22.73
		RB36#0	21.09	20.96	21.14	21.89	21.76	21.94
		RB36#39	21.09	21.03	21.15	21.89	21.83	21.95
		RB75#0	21.04	21.00	21.14	21.84	21.80	21.94
	16QAM	RB1#0	20.97	21.19	21.40	21.77	21.99	22.20
		RB1#38	21.11	21.28	21.49	21.91	22.08	22.29
		RB1#74	21.00	21.12	21.37	21.80	21.92	22.17
		RB36#0	20.00	19.85	20.08	20.80	20.65	20.88
		RB36#39	20.01	19.95	20.07	20.81	20.75	20.87
		RB75#0	20.02	19.95	20.08	20.82	20.75	20.88
20.0	QPSK	RB1#0	21.70	21.76	21.70	22.50	22.56	22.50
		RB1#50	22.17	22.11	22.16	22.97	22.91	22.96
		RB1#99	21.76	21.74	21.71	22.56	22.54	22.51
		RB50#0	20.90	20.79	21.00	21.70	21.59	21.80
		RB50#50	20.94	20.93	20.99	21.74	21.73	21.79
		RB100#0	20.91	20.91	21.03	21.71	21.71	21.83
	16QAM	RB1#0	20.93	20.88	21.20	21.73	21.68	22.00
		RB1#50	21.39	21.23	21.63	22.19	22.03	22.43
		RB1#99	21.01	20.88	21.24	21.81	21.68	22.04
		RB50#0	19.89	19.80	20.02	20.69	20.60	20.82
		RB50#50	19.94	19.93	19.97	20.74	20.73	20.77
		RB100#0	19.93	19.90	20.04	20.73	20.70	20.84

Note: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain(dBi)

For Band7: Antenna Gain = 0.80dBi

Limit: EIRP ≤ 33dBm

LTE Band 12

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	20.89	20.91	20.92	13.44	13.46	13.47
		RB1#3	21.09	21.33	21.09	13.64	13.88	13.64
		RB1#5	20.90	20.99	20.88	13.45	13.54	13.43
		RB3#0	20.88	21.06	21.00	13.43	13.61	13.55
		RB3#3	20.91	21.17	20.93	13.46	13.72	13.48
		RB6#0	20.16	20.38	19.97	12.71	12.93	12.52
	16QAM	RB1#0	19.89	20.34	19.82	12.44	12.89	12.37
		RB1#3	20.13	20.47	20.06	12.68	13.02	12.61
		RB1#5	20.14	20.06	19.86	12.69	12.61	12.41
		RB3#0	19.91	20.48	20.12	12.46	13.03	12.67
		RB3#3	19.92	20.46	20.09	12.47	13.01	12.64
		RB6#0	19.29	19.35	18.97	11.84	11.90	11.52
3.0	QPSK	RB1#0	21.49	21.13	20.97	14.04	13.68	13.52
		RB1#8	21.36	21.30	20.98	13.91	13.85	13.53
		RB1#14	21.44	21.39	20.93	13.99	13.94	13.48
		RB6#0	20.38	20.37	19.91	12.93	12.92	12.46
		RB6#9	20.32	20.17	19.89	12.87	12.72	12.44
		RB15#0	20.39	20.13	19.88	12.94	12.68	12.43
	16QAM	RB1#0	20.35	20.63	20.06	12.90	13.18	12.61
		RB1#8	20.17	20.51	20.05	12.72	13.06	12.60
		RB1#14	20.16	20.45	20.06	12.71	13.00	12.61
		RB6#0	19.27	18.94	18.87	11.82	11.49	11.42
		RB6#9	19.21	18.90	18.91	11.76	11.45	11.46
		RB15#0	19.38	18.88	18.80	11.93	11.43	11.35

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	21.37	20.94	20.84	13.92	13.49	13.39
		RB1#13	21.44	20.95	20.99	13.99	13.50	13.54
		RB1#24	21.37	20.80	20.90	13.92	13.35	13.45
		RB15#0	20.36	19.89	19.97	12.91	12.44	12.52
		RB15#10	20.38	19.86	19.89	12.93	12.41	12.44
		RB25#0	20.39	19.88	19.95	12.94	12.43	12.50
	16QAM	RB1#0	20.31	19.72	20.08	12.86	12.27	12.63
		RB1#13	20.00	19.80	20.23	12.55	12.35	12.78
		RB1#24	19.91	19.69	20.13	12.46	12.24	12.68
		RB15#0	19.24	18.94	18.93	11.79	11.49	11.48
		RB15#10	19.30	18.96	18.90	11.85	11.51	11.45
		RB25#0	19.21	18.89	18.90	11.76	11.44	11.45
10.0	QPSK	RB1#0	21.41	20.87	20.87	13.96	13.42	13.42
		RB1#25	21.53	21.02	21.04	14.08	13.57	13.59
		RB1#49	21.40	20.84	20.93	13.95	13.39	13.48
		RB25#0	20.40	19.86	19.96	12.95	12.41	12.51
		RB25#25	20.50	19.78	19.88	13.05	12.33	12.43
		RB50#0	20.46	19.85	20.04	13.01	12.40	12.59
	16QAM	RB1#0	20.17	20.48	19.96	12.72	13.03	12.51
		RB1#25	20.29	20.61	20.14	12.84	13.16	12.69
		RB1#49	19.95	20.44	20.06	12.50	12.99	12.61
		RB25#0	19.47	18.94	18.96	12.02	11.49	11.51
		RB25#25	19.41	18.86	18.85	11.96	11.41	11.40
		RB50#0	19.43	19.15	18.96	11.98	11.70	11.51

Note: ERP (dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
 For Band12: Antenna Gain = -5.3dBi = -7.45dBd (0dBd=2.15dBi)
 Limit: ERP ≤ 34.77dBm

LTE Band 17

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	21.02	20.95	20.98	13.57	13.50	13.53
		RB1#13	21.12	21.06	21.17	13.67	13.61	13.72
		RB1#24	21.03	20.97	21.07	13.58	13.52	13.62
		RB15#0	19.99	20.09	20.16	12.54	12.64	12.71
		RB15#10	20.09	19.99	20.05	12.64	12.54	12.60
		RB25#0	20.01	20.04	20.08	12.56	12.59	12.63
	16QAM	RB1#0	20.24	20.05	19.84	12.79	12.60	12.39
		RB1#13	20.35	20.13	19.98	12.90	12.68	12.53
		RB1#24	20.26	20.03	19.92	12.81	12.58	12.47
		RB15#0	18.94	19.08	19.14	11.49	11.63	11.69
		RB15#10	19.02	19.00	19.08	11.57	11.55	11.63
		RB25#0	19.02	19.02	19.10	11.57	11.57	11.65
10.0	QPSK	RB1#0	20.99	21.04	21.05	13.54	13.59	13.60
		RB1#25	21.20	21.19	21.23	13.75	13.74	13.78
		RB1#49	21.08	21.03	21.09	13.63	13.58	13.64
		RB25#0	20.04	20.05	20.11	12.59	12.60	12.66
		RB25#25	19.99	20.00	20.06	12.54	12.55	12.61
		RB50#0	20.05	20.04	20.08	12.60	12.59	12.63
	16QAM	RB1#0	20.04	20.59	20.19	12.59	13.14	12.74
		RB1#25	20.22	20.74	20.36	12.77	13.29	12.91
		RB1#49	20.04	20.60	20.20	12.59	13.15	12.75
		RB25#0	19.09	19.13	19.12	11.64	11.68	11.67
		RB25#25	19.05	19.07	19.04	11.60	11.62	11.59
		RB50#0	19.03	19.01	19.07	11.58	11.56	11.62

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
 For Band17: Antenna Gain = -5.3dBi = -7.45dBd (0dBd=2.15dBi)
 Limit: ERP≤34.77dBm

LTE Band 38

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	21.36	21.31	21.24	22.16	22.11	22.04
		RB1#13	21.51	21.44	21.38	22.31	22.24	22.18
		RB1#24	21.39	21.32	21.26	22.19	22.12	22.06
		RB15#0	20.40	20.37	20.30	21.20	21.17	21.10
		RB15#10	20.41	20.36	20.30	21.21	21.16	21.10
		RB25#0	20.39	20.34	20.27	21.19	21.14	21.07
	16QAM	RB1#0	20.55	20.27	20.27	21.35	21.07	21.07
		RB1#13	20.70	20.43	20.41	21.50	21.23	21.21
		RB1#24	20.60	20.28	20.26	21.40	21.08	21.06
		RB15#0	19.42	19.29	19.30	20.22	20.09	20.10
		RB15#10	19.40	19.28	19.31	20.20	20.08	20.11
		RB25#0	19.34	19.35	19.33	20.14	20.15	20.13
10.0	QPSK	RB1#0	21.47	21.44	21.34	22.27	22.24	22.14
		RB1#25	21.74	21.72	21.61	22.54	22.52	22.41
		RB1#49	21.48	21.43	21.30	22.28	22.23	22.10
		RB25#0	20.42	20.41	20.36	21.22	21.21	21.16
		RB25#25	20.48	20.40	20.34	21.28	21.20	21.14
		RB50#0	20.42	20.38	20.34	21.22	21.18	21.14
	16QAM	RB1#0	20.34	20.42	20.51	21.14	21.22	21.31
		RB1#25	20.66	20.75	20.79	21.46	21.55	21.59
		RB1#49	20.37	20.46	20.51	21.17	21.26	21.31
		RB25#0	19.48	19.43	19.32	20.28	20.23	20.12
		RB25#25	19.49	19.43	19.31	20.29	20.23	20.11
		RB50#0	19.40	19.40	19.31	20.20	20.20	20.11

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	21.37	21.39	21.28	22.17	22.19	22.08
		RB1#38	21.49	21.45	21.37	22.29	22.25	22.17
		RB1#74	21.35	21.33	21.24	22.15	22.13	22.04
		RB36#0	20.48	20.42	20.39	21.28	21.22	21.19
		RB36#39	20.50	20.43	20.35	21.30	21.23	21.15
		RB75#0	20.45	20.42	20.37	21.25	21.22	21.17
	16QAM	RB1#0	20.24	20.52	20.45	21.04	21.32	21.25
		RB1#38	20.38	20.61	20.55	21.18	21.41	21.35
		RB1#74	20.25	20.48	20.39	21.05	21.28	21.19
		RB36#0	19.36	19.43	19.31	20.16	20.23	20.11
		RB36#39	19.40	19.44	19.32	20.20	20.24	20.12
		RB75#0	19.42	19.40	19.29	20.22	20.20	20.09
20.0	QPSK	RB1#0	21.17	21.27	21.11	21.97	22.07	21.91
		RB1#50	21.67	21.74	21.59	22.47	22.54	22.39
		RB1#99	21.15	21.22	21.07	21.95	22.02	21.87
		RB50#0	20.34	20.31	20.28	21.14	21.11	21.08
		RB50#50	20.40	20.36	20.28	21.20	21.16	21.08
		RB100#0	20.39	20.35	20.28	21.19	21.15	21.08
	16QAM	RB1#0	20.09	20.41	20.16	20.89	21.21	20.96
		RB1#50	20.65	20.90	20.61	21.45	21.70	21.41
		RB1#99	20.14	20.42	20.12	20.94	21.22	20.92
		RB50#0	19.37	19.31	19.26	20.17	20.11	20.06
		RB50#50	19.43	19.36	19.33	20.23	20.16	20.13
		RB100#0	19.37	19.33	19.21	20.17	20.13	20.01

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)
 For Band38: Antenna Gain = 0.80dBi
 Limit: EIRP ≤ 33dBm

LTE Band 41

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	20.77	20.79	20.60	21.57	21.59	21.40
		RB1#13	20.84	20.93	20.71	21.64	21.73	21.51
		RB1#24	20.76	20.78	20.60	21.56	21.58	21.40
		RB15#0	19.80	19.83	19.63	20.60	20.63	20.43
		RB15#10	19.78	19.80	19.64	20.58	20.60	20.44
		RB25#0	19.78	19.81	19.66	20.58	20.61	20.46
	16QAM	RB1#0	19.99	19.76	19.65	20.79	20.56	20.45
		RB1#13	20.06	19.87	19.81	20.86	20.67	20.61
		RB1#24	19.96	19.75	19.63	20.76	20.55	20.43
		RB15#0	18.81	18.75	18.65	19.61	19.55	19.45
		RB15#10	18.80	18.74	18.66	19.60	19.54	19.46
		RB25#0	18.77	18.82	18.70	19.57	19.62	19.50
10.0	QPSK	RB1#0	20.86	20.89	20.72	21.66	21.69	21.52
		RB1#25	21.12	21.13	20.98	21.92	21.93	21.78
		RB1#49	20.80	20.84	20.68	21.60	21.64	21.48
		RB25#0	19.83	19.86	19.69	20.63	20.66	20.49
		RB25#25	19.82	19.87	19.70	20.62	20.67	20.50
		RB50#0	19.80	19.84	19.70	20.60	20.64	20.50
	16QAM	RB1#0	19.91	20.04	19.63	20.71	20.84	20.43
		RB1#25	20.17	20.29	19.90	20.97	21.09	20.70
		RB1#49	19.89	20.01	19.58	20.69	20.81	20.38
		RB25#0	18.84	18.81	18.71	19.64	19.61	19.51
		RB25#25	18.86	18.83	18.74	19.66	19.63	19.54
		RB50#0	18.77	18.82	18.69	19.57	19.62	19.49

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	20.71	20.83	20.71	21.51	21.63	21.51
		RB1#38	20.84	20.95	20.78	21.64	21.75	21.58
		RB1#74	20.71	20.76	20.60	21.51	21.56	21.40
		RB36#0	19.80	19.91	19.76	20.60	20.71	20.56
		RB36#39	19.81	19.92	19.76	20.61	20.72	20.56
		RB75#0	19.82	19.90	19.79	20.62	20.70	20.59
	16QAM	RB1#0	19.63	20.00	19.86	20.43	20.80	20.66
		RB1#38	19.77	20.14	19.99	20.57	20.94	20.79
		RB1#74	19.64	19.94	19.79	20.44	20.74	20.59
		RB36#0	18.74	18.92	18.76	19.54	19.72	19.56
		RB36#39	18.76	18.94	18.74	19.56	19.74	19.54
		RB75#0	18.82	18.89	18.72	19.62	19.69	19.52
20.0	QPSK	RB1#0	20.62	20.60	20.51	21.42	21.40	21.31
		RB1#50	21.16	21.14	20.99	21.96	21.94	21.79
		RB1#99	20.66	20.54	20.43	21.46	21.34	21.23
		RB50#0	19.76	19.76	19.69	20.56	20.56	20.49
		RB50#50	19.75	19.81	19.72	20.55	20.61	20.52
		RB100#0	19.77	19.80	19.76	20.57	20.60	20.56
	16QAM	RB1#0	19.81	19.66	19.45	20.61	20.46	20.25
		RB1#50	20.34	20.17	19.97	21.14	20.97	20.77
		RB1#99	19.86	19.61	19.41	20.66	20.41	20.21
		RB50#0	18.75	18.75	18.73	19.55	19.55	19.53
		RB50#50	18.75	18.81	18.78	19.55	19.61	19.58
		RB100#0	18.76	18.77	18.74	19.56	19.57	19.54

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For Band41: Antenna Gain = 0.80dBi

Limit: EIRP ≤ 33dBm

LTE Band 66:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	19.64	19.58	19.58	17.34	17.28	17.28
		RB1#3	19.81	19.79	19.74	17.51	17.49	17.44
		RB1#5	19.63	19.58	19.57	17.33	17.28	17.27
		RB3#0	19.70	19.69	19.65	17.40	17.39	17.35
		RB3#3	19.65	19.69	19.61	17.35	17.39	17.31
		RB6#0	18.69	18.63	18.61	16.39	16.33	16.31
	16QAM	RB1#0	18.75	18.61	18.54	16.45	16.31	16.24
		RB1#3	18.92	18.79	18.72	16.62	16.49	16.42
		RB1#5	18.76	18.60	18.59	16.46	16.30	16.29
		RB3#0	18.67	18.75	18.81	16.37	16.45	16.51
		RB3#3	18.68	18.74	18.76	16.38	16.44	16.46
		RB6#0	17.78	17.66	17.68	15.48	15.36	15.38
3.0	QPSK	RB1#0	20.19	19.71	19.61	17.89	17.41	17.31
		RB1#8	19.71	19.68	19.58	17.41	17.38	17.28
		RB1#14	19.71	19.66	19.59	17.41	17.36	17.29
		RB6#0	18.60	18.59	18.60	16.30	16.29	16.30
		RB6#9	18.65	18.66	18.62	16.35	16.36	16.32
		RB15#0	18.65	18.63	18.64	16.35	16.33	16.34
	16QAM	RB1#0	18.79	18.78	19.18	16.49	16.48	16.88
		RB1#8	18.81	18.68	19.20	16.51	16.38	16.90
		RB1#14	18.78	18.59	19.17	16.48	16.29	16.87
		RB6#0	17.66	17.83	17.69	15.36	15.53	15.39
		RB6#9	17.70	17.84	17.69	15.40	15.54	15.39
		RB15#0	17.65	17.87	17.70	15.35	15.57	15.40

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	20.15	19.60	19.60	17.85	17.30	17.30
		RB1#13	19.73	19.67	19.72	17.43	17.37	17.42
		RB1#24	19.66	19.55	19.59	17.36	17.25	17.29
		RB15#0	18.64	18.69	18.65	16.34	16.39	16.35
		RB15#10	18.69	18.68	18.65	16.39	16.38	16.35
		RB25#0	18.68	18.67	18.60	16.38	16.37	16.30
	16QAM	RB1#0	18.85	18.68	18.47	16.55	16.38	16.17
		RB1#13	19.01	18.76	18.58	16.71	16.46	16.28
		RB1#24	18.85	18.64	18.50	16.55	16.34	16.20
		RB15#0	17.66	17.76	17.71	15.36	15.46	15.41
		RB15#10	17.70	17.71	17.72	15.40	15.41	15.42
		RB25#0	17.68	17.76	17.71	15.38	15.46	15.41
10.0	QPSK	RB1#0	20.10	19.62	19.58	17.80	17.32	17.28
		RB1#25	19.87	19.81	19.73	17.57	17.51	17.43
		RB1#49	19.73	19.63	19.60	17.43	17.33	17.30
		RB25#0	18.64	18.68	18.71	16.34	16.38	16.41
		RB25#25	18.78	18.71	18.64	16.48	16.41	16.34
		RB50#0	18.72	18.71	18.66	16.42	16.41	16.36
	16QAM	RB1#0	18.81	18.63	19.21	16.51	16.33	16.91
		RB1#25	18.97	18.82	19.37	16.67	16.52	17.07
		RB1#49	18.78	18.61	19.15	16.48	16.31	16.85
		RB25#0	17.69	17.85	17.81	15.39	15.55	15.51
		RB25#25	17.85	17.85	17.74	15.55	15.55	15.44
		RB50#0	17.75	17.78	17.70	15.45	15.48	15.40

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	20.14	19.57	19.59	17.84	17.27	17.29
		RB1#38	19.89	19.67	19.63	17.59	17.37	17.33
		RB1#74	19.74	19.50	19.54	17.44	17.20	17.24
		RB36#0	18.65	18.71	18.71	16.35	16.41	16.41
		RB36#39	18.79	18.69	18.66	16.49	16.39	16.36
		RB75#0	18.75	18.73	18.69	16.45	16.43	16.39
	16QAM	RB1#0	19.02	19.17	18.70	16.72	16.87	16.40
		RB1#38	19.09	19.27	18.80	16.79	16.97	16.50
		RB1#74	18.92	19.12	18.72	16.62	16.82	16.42
		RB36#0	17.65	17.88	17.76	15.35	15.58	15.46
		RB36#39	17.81	17.77	17.70	15.51	15.47	15.40
		RB75#0	17.85	17.80	17.70	15.55	15.50	15.40
20.0	QPSK	RB1#0	19.56	19.38	19.45	17.26	17.08	17.15
		RB1#50	19.88	19.80	19.78	17.58	17.50	17.48
		RB1#99	19.46	19.34	19.36	17.16	17.04	17.06
		RB50#0	18.55	18.71	18.80	16.25	16.41	16.50
		RB50#50	18.74	18.66	18.55	16.44	16.36	16.25
		RB100#0	18.67	18.69	18.67	16.37	16.39	16.37
	16QAM	RB1#0	18.67	18.95	18.70	16.37	16.65	16.40
		RB1#50	19.10	19.39	19.03	16.80	17.09	16.73
		RB1#99	18.65	18.92	18.68	16.35	16.62	16.38
		RB50#0	17.56	17.75	17.82	15.26	15.45	15.52
		RB50#50	17.80	17.71	17.54	15.50	15.41	15.24
		RB100#0	17.79	17.76	17.77	15.49	15.46	15.47

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For Band 66: Antenna Gain = -2.30dBi

Limit: EIRP ≤ 30dBm

Peak-to-average ratio (PAR)**Cellular Band**

Mode	Channel	PAR (dB)	Limit (dB)
GSM	Low	3.33	13
	Middle	3.42	13
	High	3.72	13

Mode	Channel	PAR (dB)	Limit (dB)
EGPRS	Low	3.19	13
	Middle	3.38	13
	High	3.61	13

Mode	Channel	PAR (dB)	Limit (dB)
RMC (BPSK)	Low	3.21	13
	Middle	3.16	13
	High	3.01	13
HSDPA (16QAM)	Low	3.88	13
	Middle	3.91	13
	High	3.85	13
HSUPA (BPSK)	Low	3.91	13
	Middle	3.94	13
	High	3.81	13
HSPA+	Low	3.52	13
	Middle	3.22	13
	High	3.41	13

PCS Band

Mode	Channel	PAR (dB)	Limit (dB)
GSM	Low	3.57	13
	Middle	3.33	13
	High	3.52	13

Mode	Channel	PAR (dB)	Limit (dB)
EGPRS	Low	3.40	13
	Middle	3.24	13
	High	3.44	13

Mode	Channel	PAR (dB)	Limit (dB)
RMC (BPSK)	Low	3.11	13
	Middle	3.08	13
	High	3.01	13
HSDPA (16QAM)	Low	3.88	13
	Middle	3.78	13
	High	3.78	13
HSUPA (BPSK)	Low	3.85	13
	Middle	3.88	13
	High	3.75	13
HSPA+	Low	3.26	13
	Middle	3.44	13
	High	3.52	13

AWS Band

Mode	Channel	PAR (dB)	Limit (dB)
RMC (BPSK)	Low	3.08	13
	Middle	3.04	13
	High	3.08	13
HSDPA (16QAM)	Low	3.88	13
	Middle	3.88	13
	High	3.81	13
HSUPA (BPSK)	Low	3.69	13
	Middle	3.75	13
	High	3.91	13
HSPA+	Low	3.52	13
	Middle	3.11	13
	High	3.64	13

LTE Band 2 20MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.28	6.43	5.94	13	Pass
QPSK (100RB Size)	6.67	6.23	6.43	13	Pass
16QAM (1RB Size)	7.45	6.84	5.80	13	Pass
16QAM (100RB Size)	6.78	6.67	5.91	13	Pass

LTE Band 4 20MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	6.43	6.41	6.41	13	Pass
QPSK (100RB Size)	5.80	6.26	5.91	13	Pass
16QAM (1RB Size)	6.58	5.62	6.58	13	Pass
16QAM (100RB Size)	6.70	5.71	6.67	13	Pass

LTE Band 5 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.58	5.61	5.29	13	Pass
QPSK (50RB Size)	5.67	5.67	5.58	13	Pass
16QAM (1RB Size)	5.99	6.25	6.79	13	Pass
16QAM (50RB Size)	6.47	6.54	6.51	13	Pass

LTE Band 7 20MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.83	5.65	5.68	13	Pass
QPSK (100RB Size)	5.57	5.80	5.68	13	Pass
16QAM (1RB Size)	6.55	6.67	6.58	13	Pass
16QAM (100RB Size)	6.67	6.61	6.55	13	Pass

LTE Band 12 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.83	6.06	6.15	13	Pass
QPSK (50RB Size)	5.74	5.54	5.58	13	Pass
16QAM (1RB Size)	6.44	6.96	7.21	13	Pass
16QAM (50RB Size)	6.57	6.31	6.41	13	Pass

LTE Band 17 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.58	6.19	5.74	13	Pass
QPSK (50RB Size)	5.48	5.58	5.54	13	Pass
16QAM (1RB Size)	6.41	7.21	7.15	13	Pass
16QAM (50RB Size)	6.44	6.38	6.35	13	Pass

LTE Band 38 20MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.71	4.55	6.29	13	Pass
QPSK (100RB Size)	4.96	4.35	6.46	13	Pass
16QAM (1RB Size)	6.41	5.01	5.74	13	Pass
16QAM (100RB Size)	6.67	5.48	6.35	13	Pass

LTE Band 41 20MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	4.81	5.77	4.99	13	Pass
QPSK (100RB Size)	4.87	5.13	4.72	13	Pass
16QAM (1RB Size)	5.62	5.68	5.33	13	Pass
16QAM (100RB Size)	5.88	6.12	5.30	13	Pass

LTE Band 66 20MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.54	5.74	5.51	13	Pass
QPSK (100RB Size)	5.62	5.68	5.57	13	Pass
16QAM (1RB Size)	6.46	6.49	6.35	13	Pass
16QAM (100RB Size)	6.55	6.61	6.38	13	Pass

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

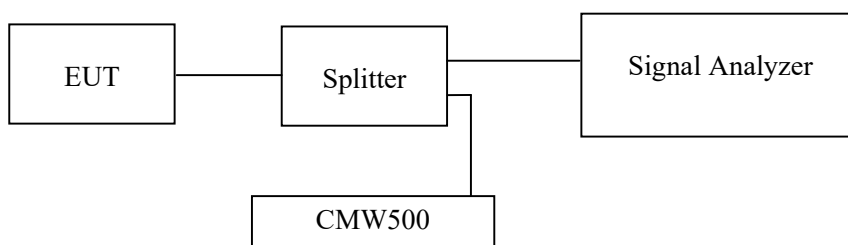
Applicable Standard

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

Test Procedure

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.



Note: the worst path loss (cable loss and splitter inset loss) among the test frequency range has included in plot.

Test Data

Environmental Conditions

Temperature:	24.8~27.2℃
Relative Humidity:	52.1~56.8 %
ATM Pressure:	101.0 kPa

The testing was performed by Glenn Jiang from 2023-01-03 to 2023-02-09.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the following tables and plots.

Cellular Band (Part 22H)

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM (GMSK)	128	824.2	246.00	321.00
	190	836.6	245.00	315.00
	251	848.8	245.00	316.00
EGPRS(8PSK)	128	824.2	251.00	327.00
	190	836.6	247.00	318.00
	251	848.8	248.00	319.00

	Frequency (MHz)	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	826.4	4.17	4.73
	836.6	4.17	4.73
	846.6	4.17	4.73
HSDPA	826.4	4.17	4.74
	836.6	4.17	4.73
	846.6	4.17	4.74
HSUPA	826.4	4.17	4.73
	836.6	4.17	4.73
	846.6	4.17	4.74

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM (GMSK)	512	1850.2	245.00	317.00
	661	1880.0	244.00	317.00
	810	1909.8	246.00	325.00
EGPRS(8PSK)	512	1850.2	258.00	334.00
	661	1880.0	255.00	333.00
	810	1909.8	254.00	331.00

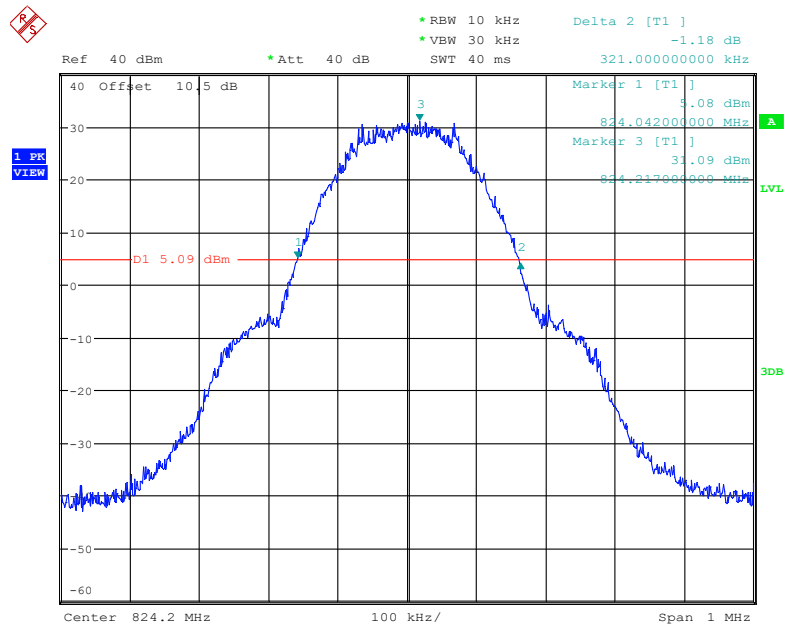
	Frequency (MHz)	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	1852.4	4.17	4.74
	1880.0	4.17	4.74
	1907.6	4.16	4.73
HSDPA	1852.4	4.19	4.73
	1880.0	4.17	4.71
	1907.6	4.19	4.71
HSUPA	1852.4	4.19	4.73
	1880.0	4.17	4.73
	1907.6	4.17	4.73

AWS Band (Part 27)

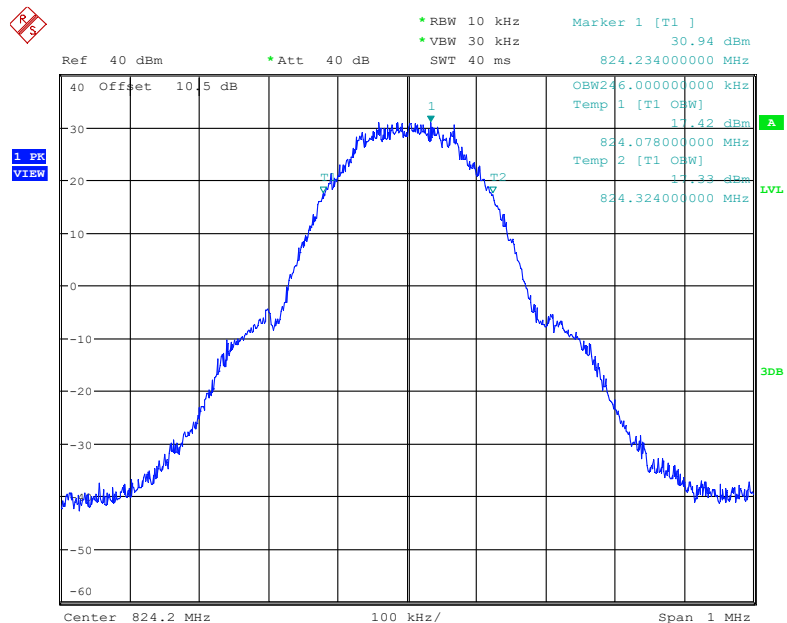
	Frequency (MHz)	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	1712.4	4.17	4.73
	1732.6	4.17	4.74
	1752.6	4.17	4.73
HSDPA	1712.4	4.20	4.95
	1732.6	4.17	4.74
	1752.6	4.22	5.00
HSUPA	1712.4	4.17	4.74
	1732.6	4.20	5.16
	1752.6	4.20	4.82

Cellular Band (Part 22H)

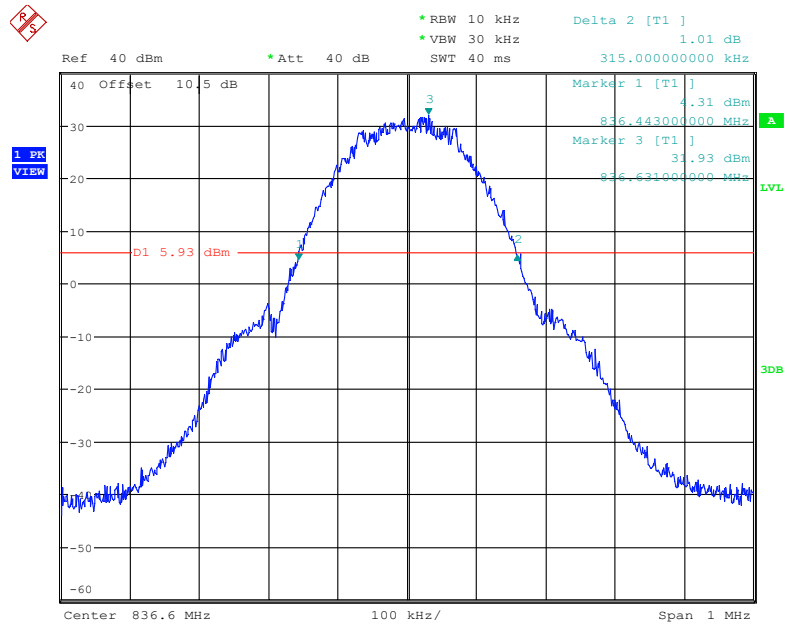
26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Low channel



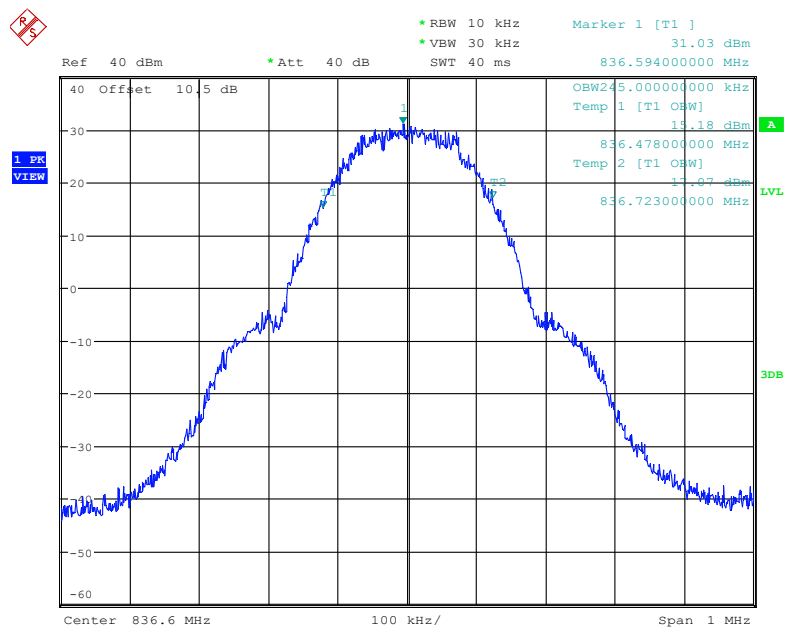
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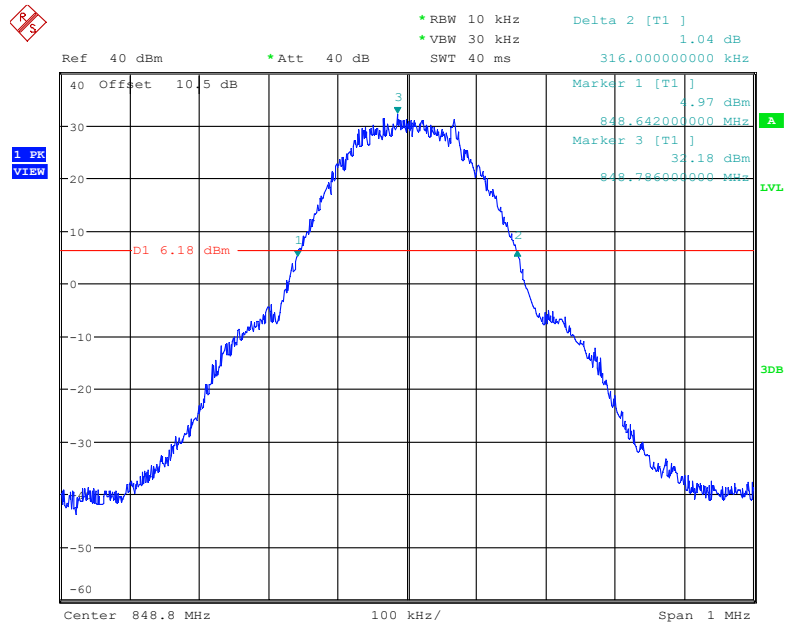
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26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Middle channel

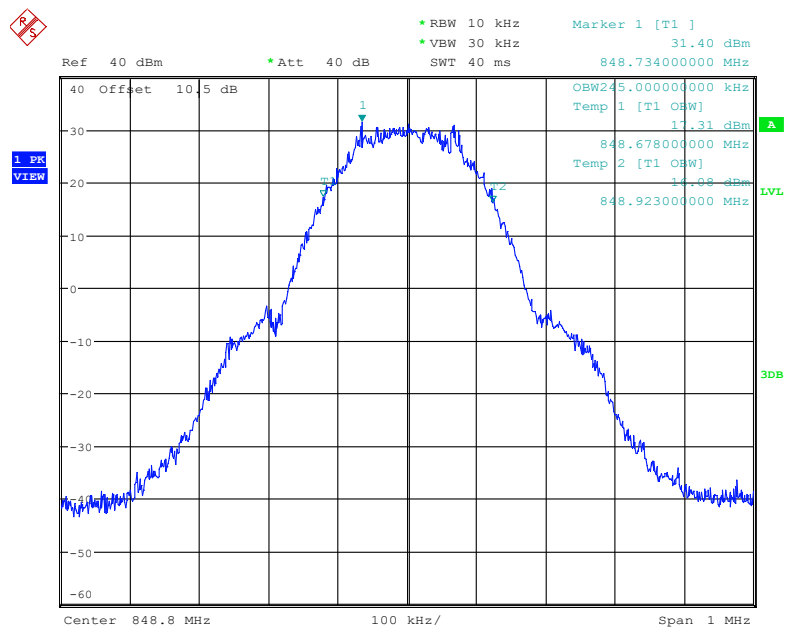
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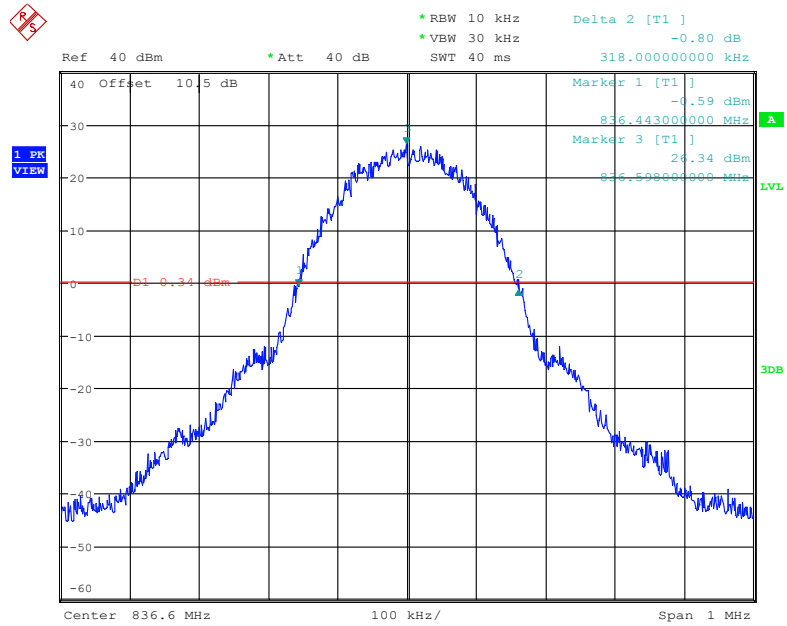
26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, High channel

Date: 3.JAN.2023 08:58:12

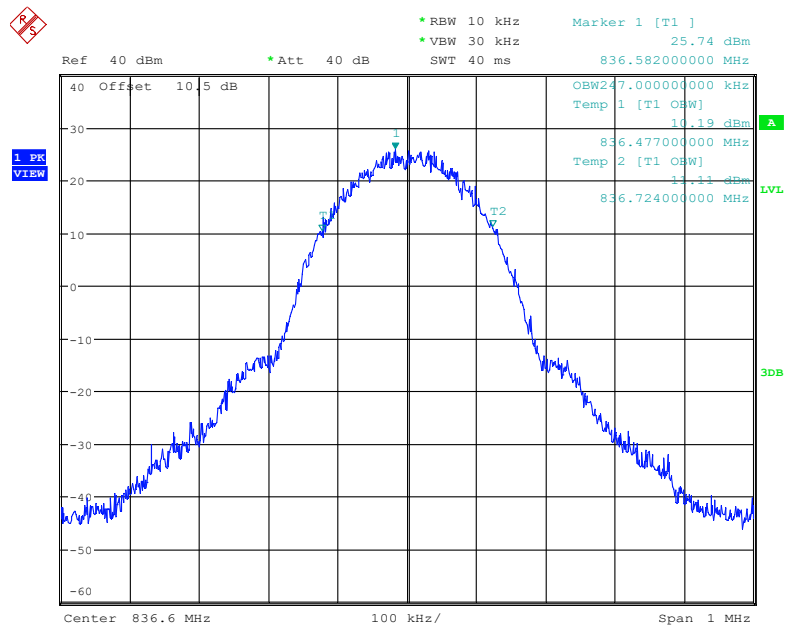


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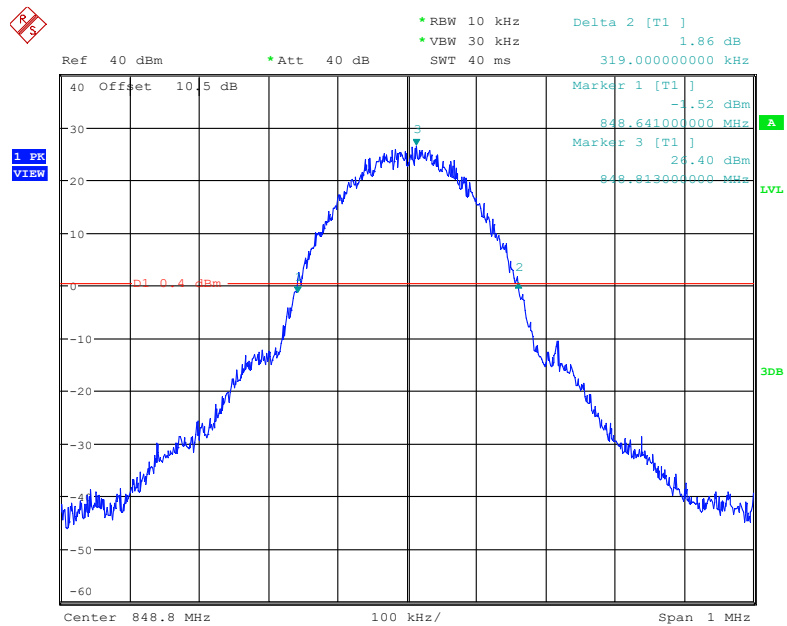


26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, Middle channel

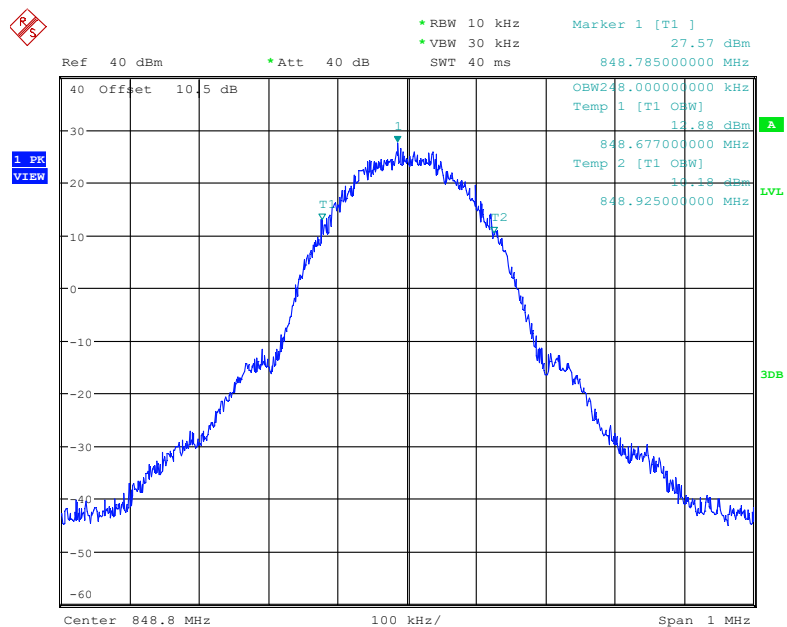
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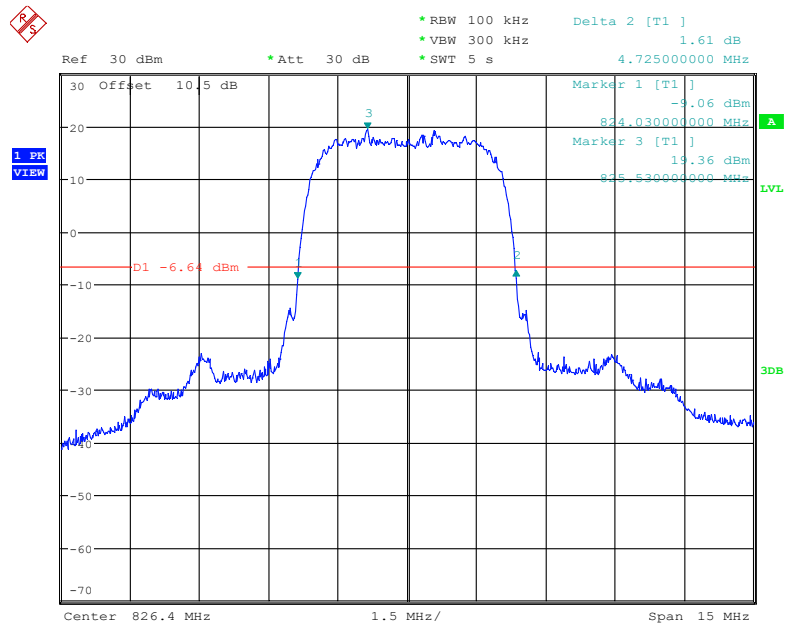
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26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, High channel

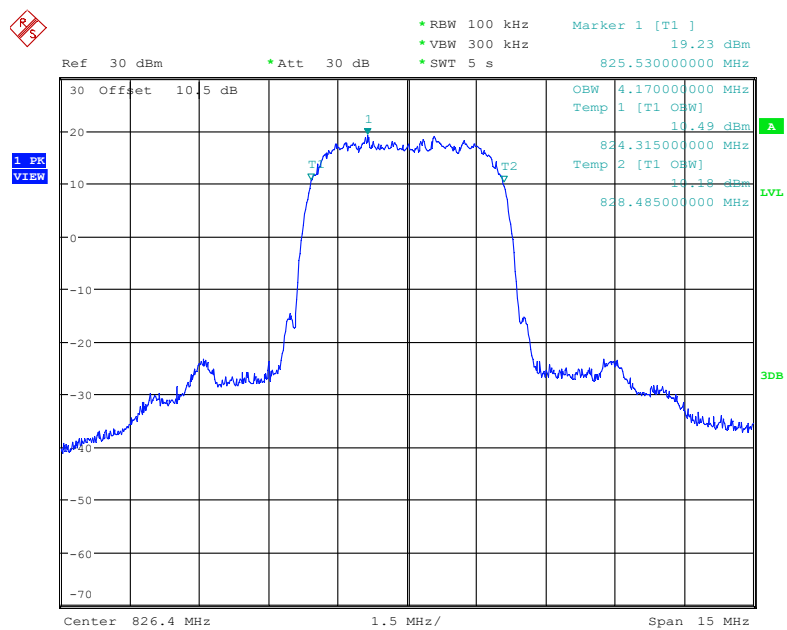
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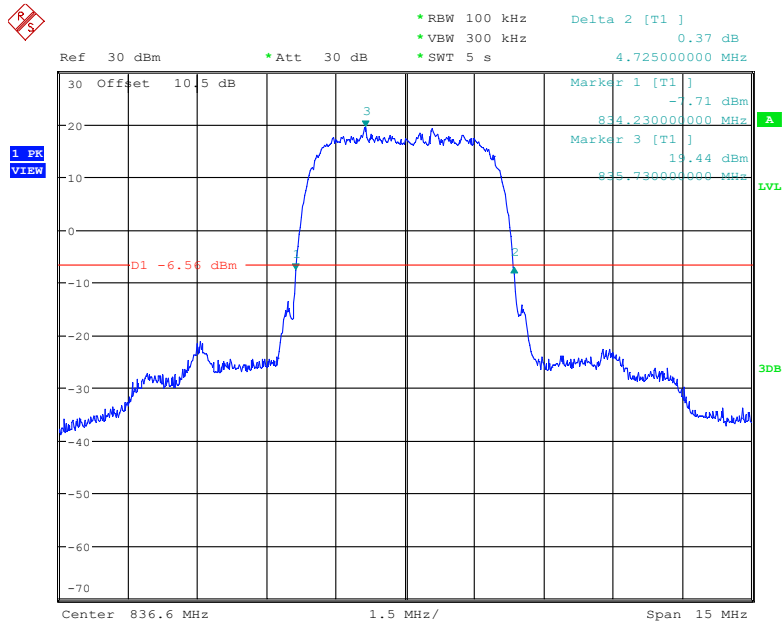
26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel

Date: 3.JAN.2023 10:40:44

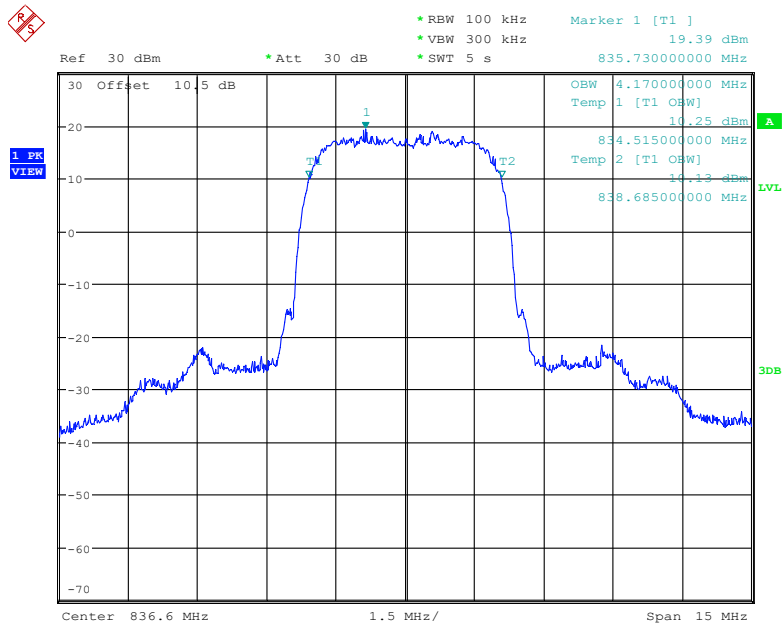


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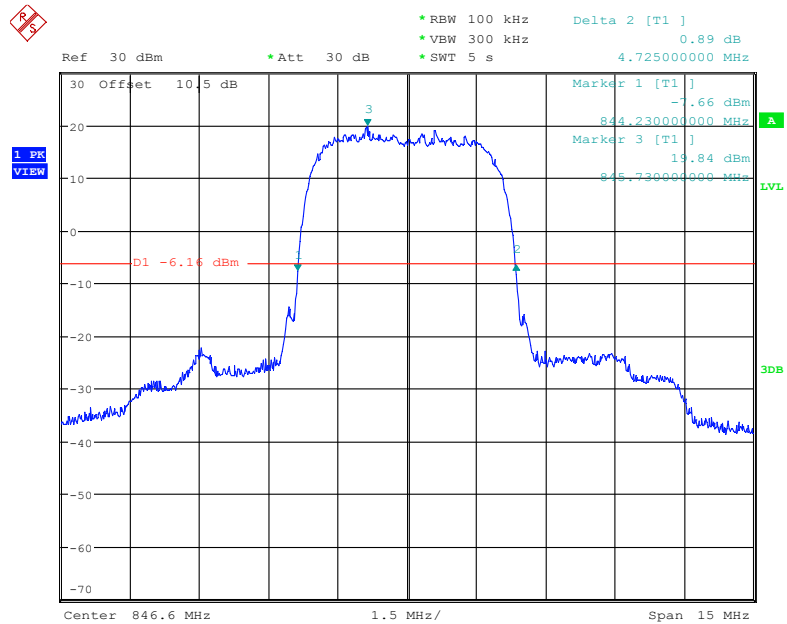
26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel



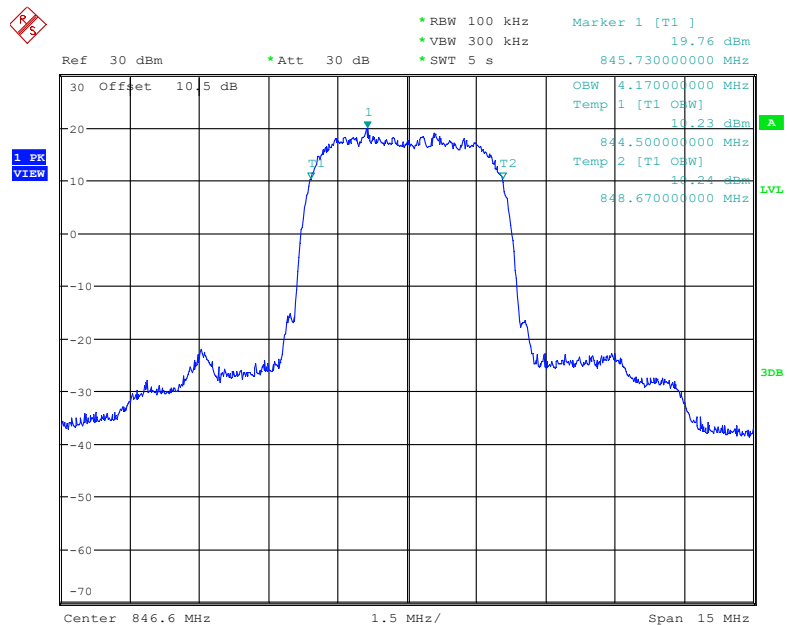
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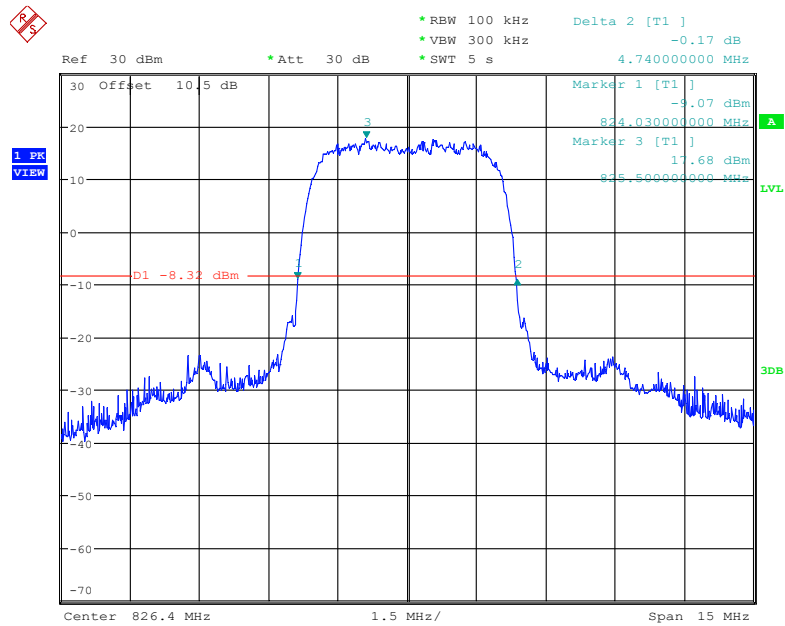
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26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel

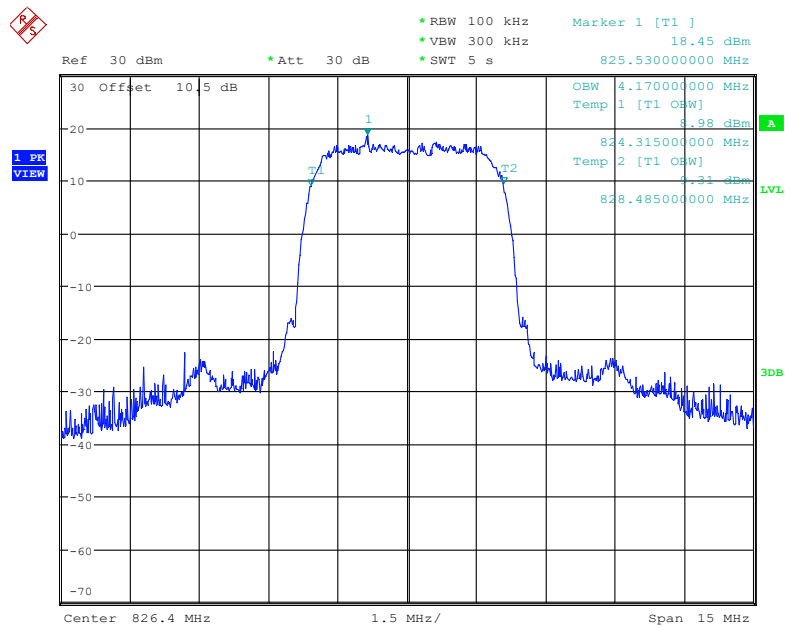
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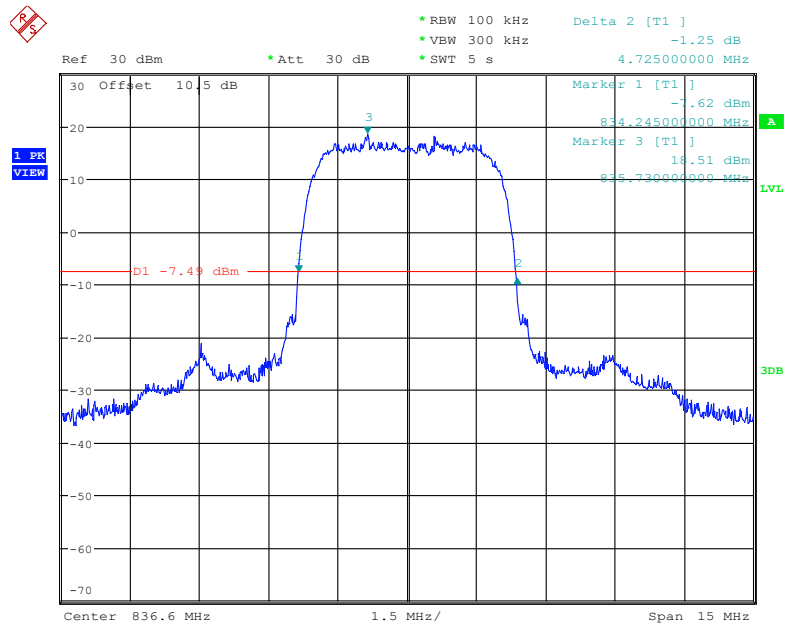
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26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Low channel

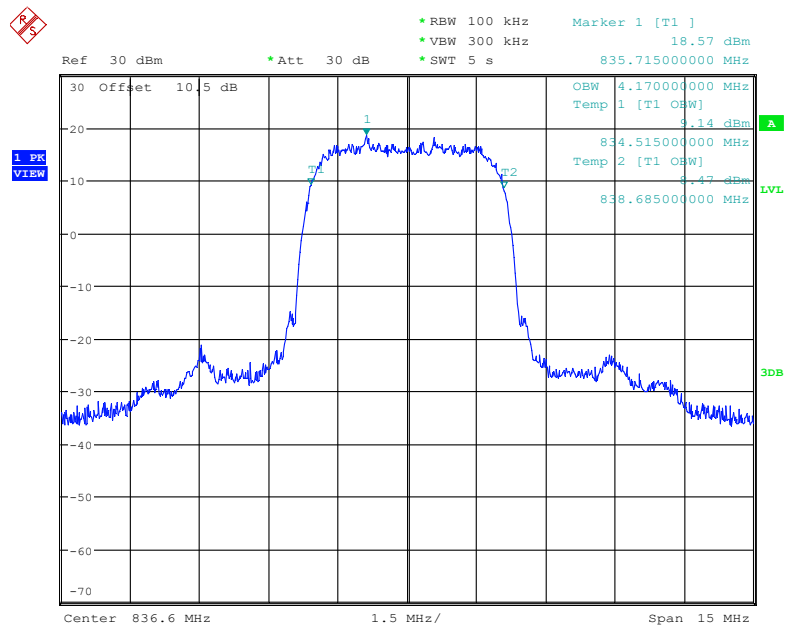
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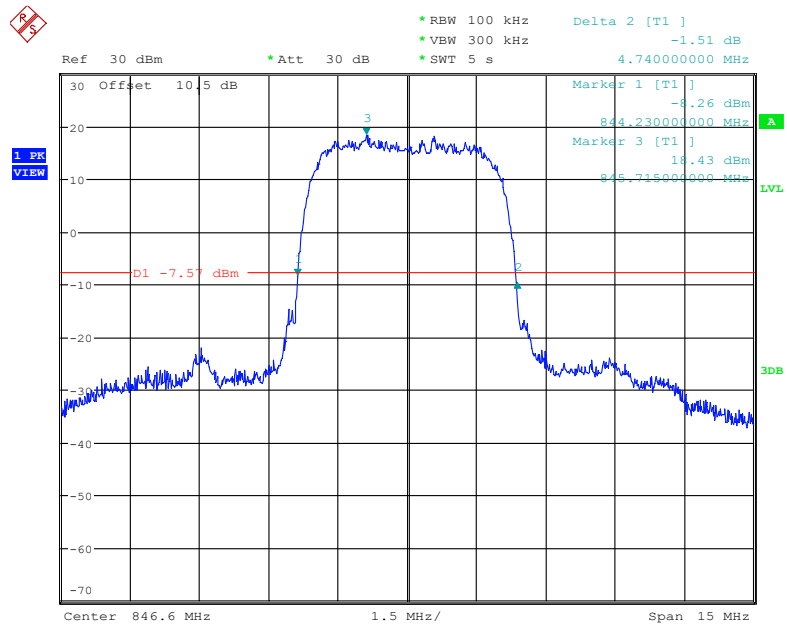
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26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Middle channel

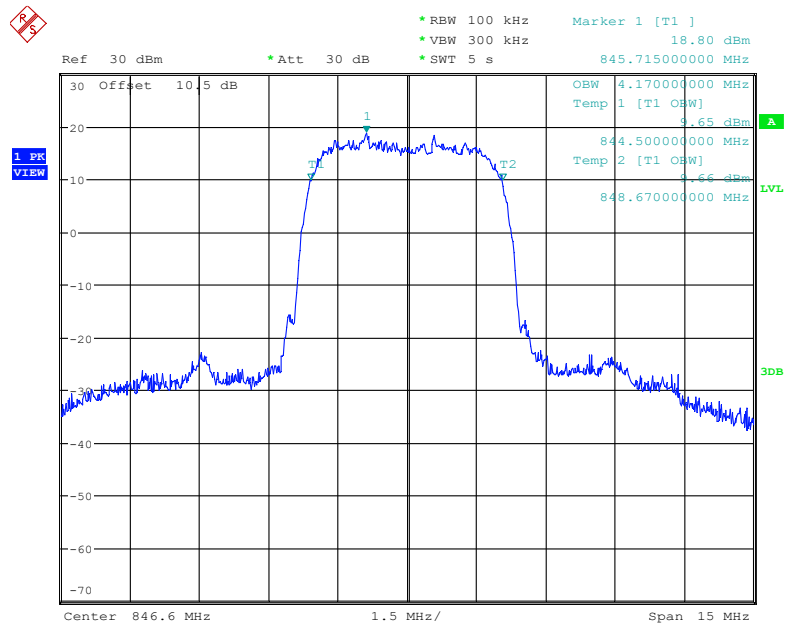
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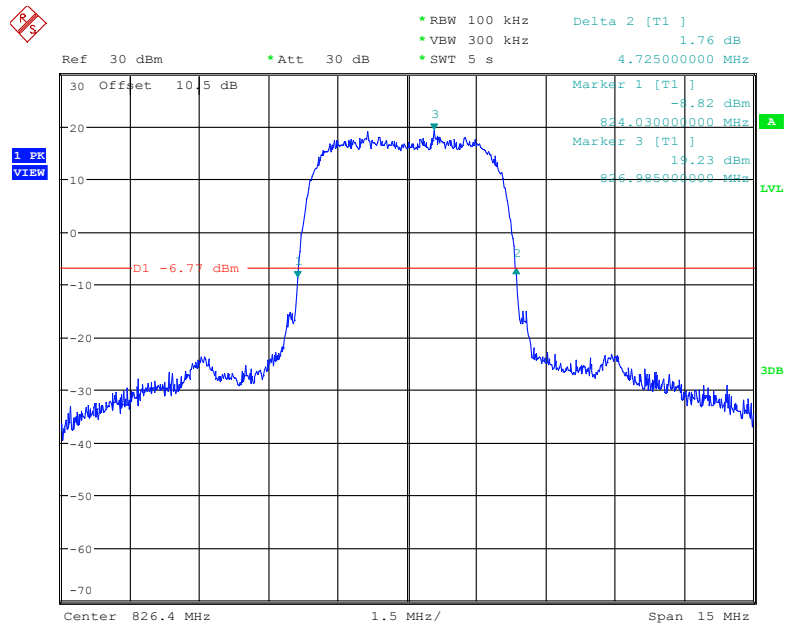
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26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, High channel

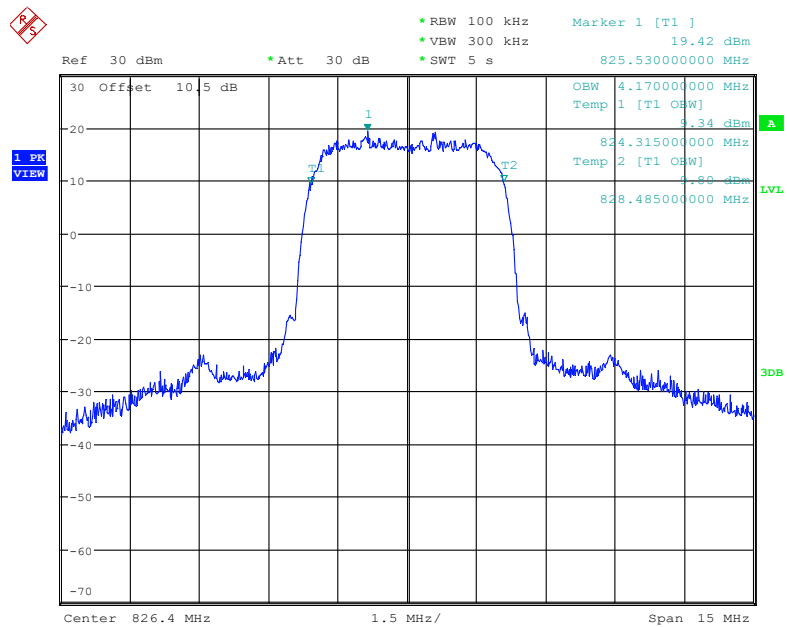
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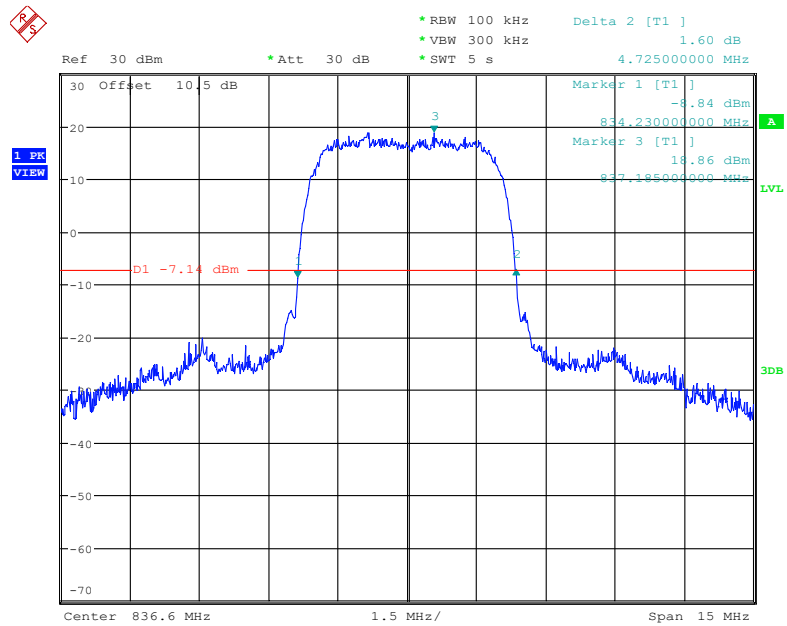
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26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, Low channel

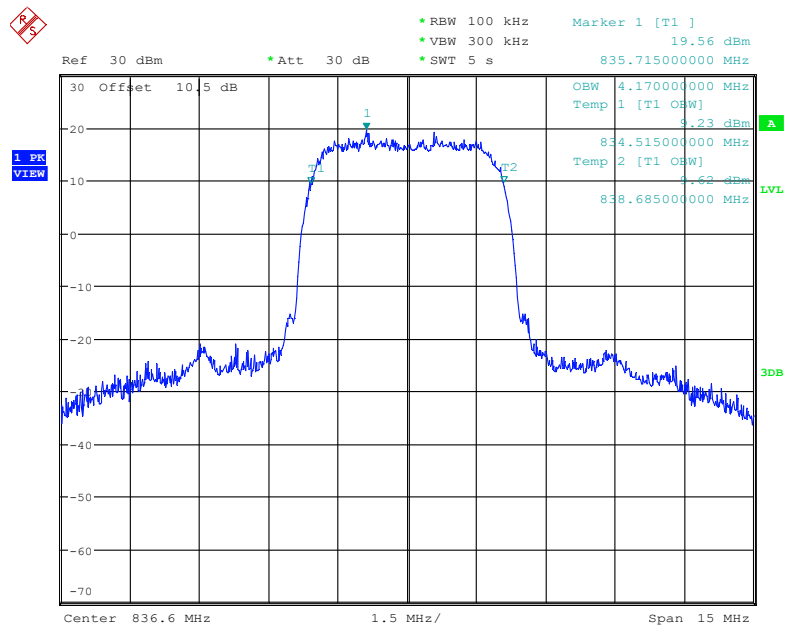
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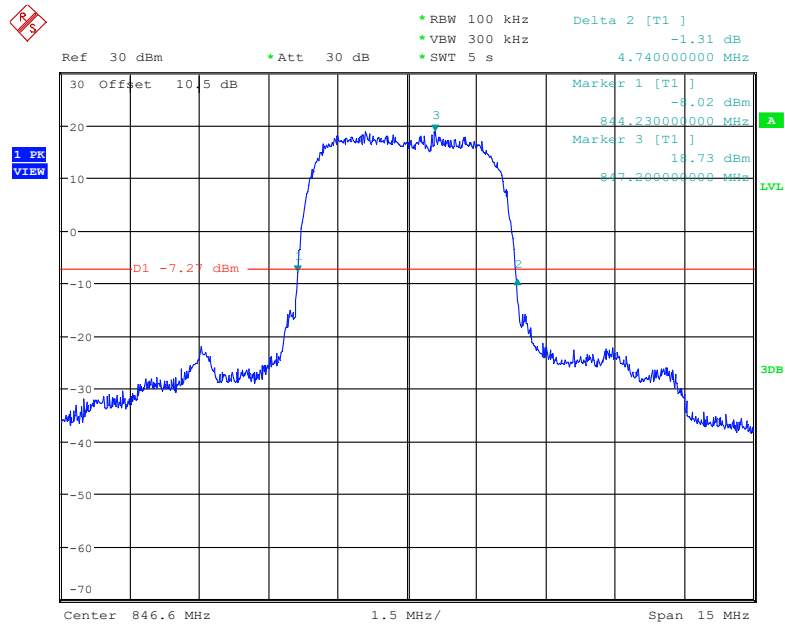
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26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, Middle channel

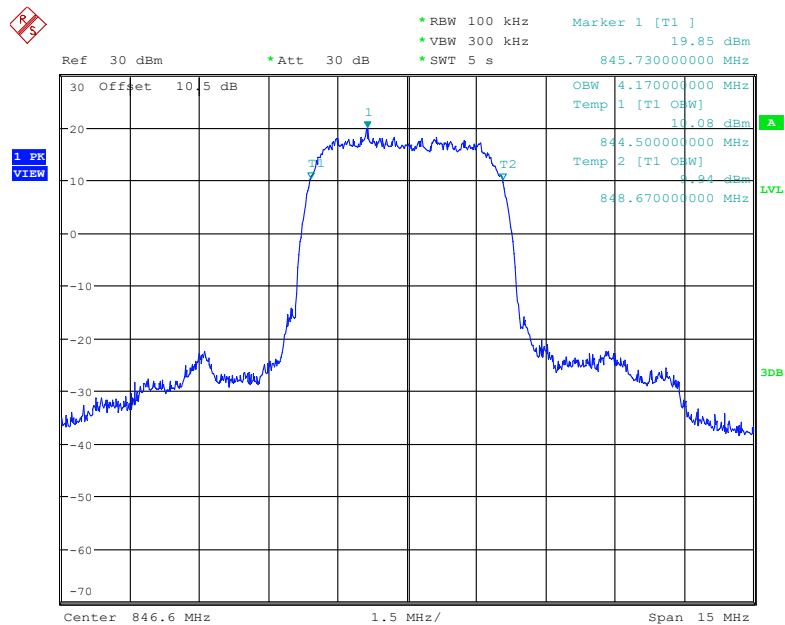
Date: 3.JAN.2023 11:35:01



Date: 3.JAN.2023 11:34:22

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, High channel

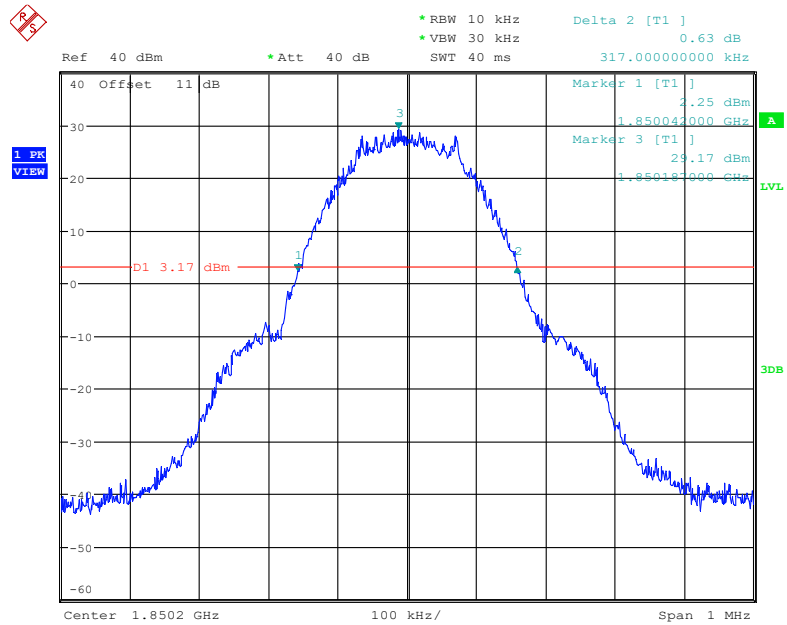
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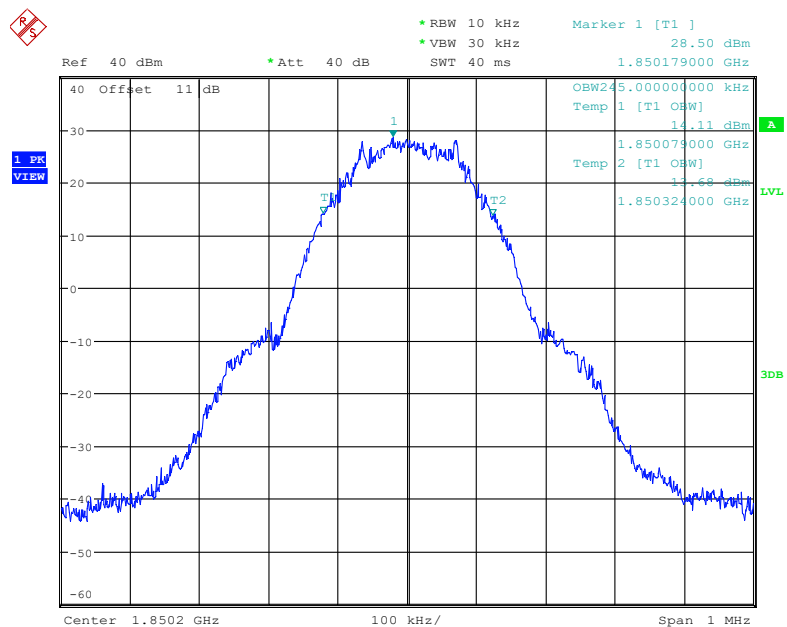
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PCS Band (Part 24E)

26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Low channel

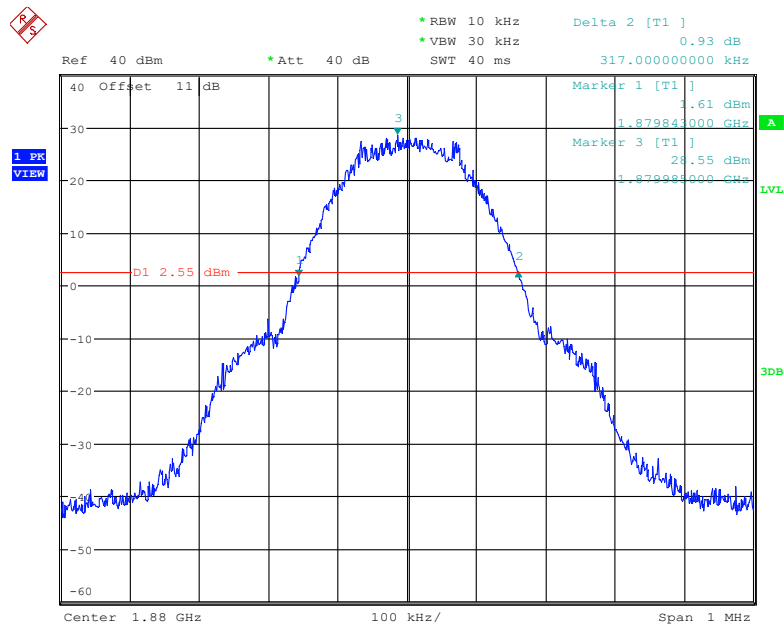


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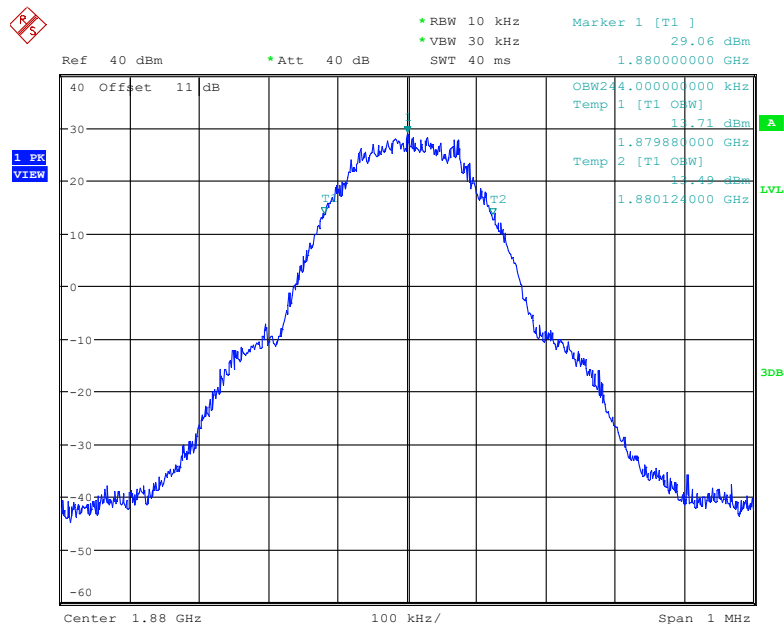


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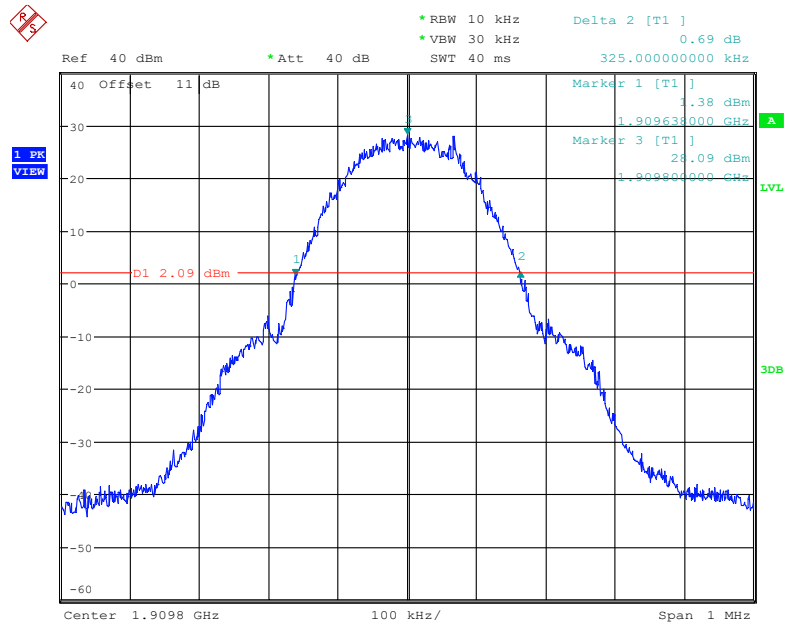
26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Middle channel



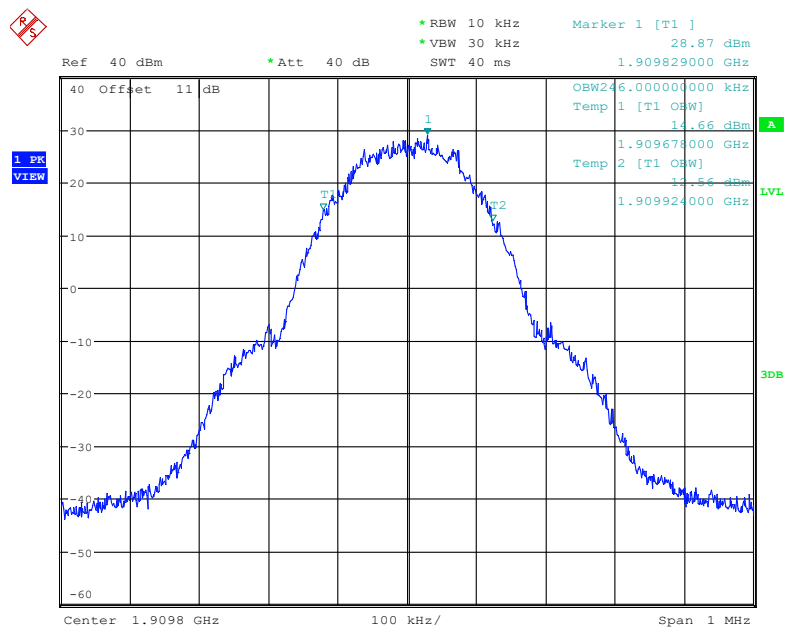
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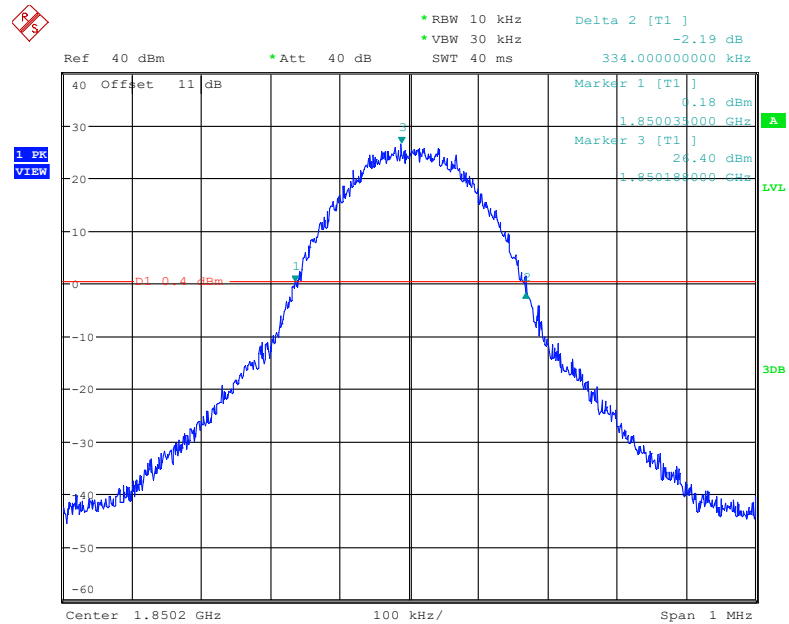
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26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, High channel

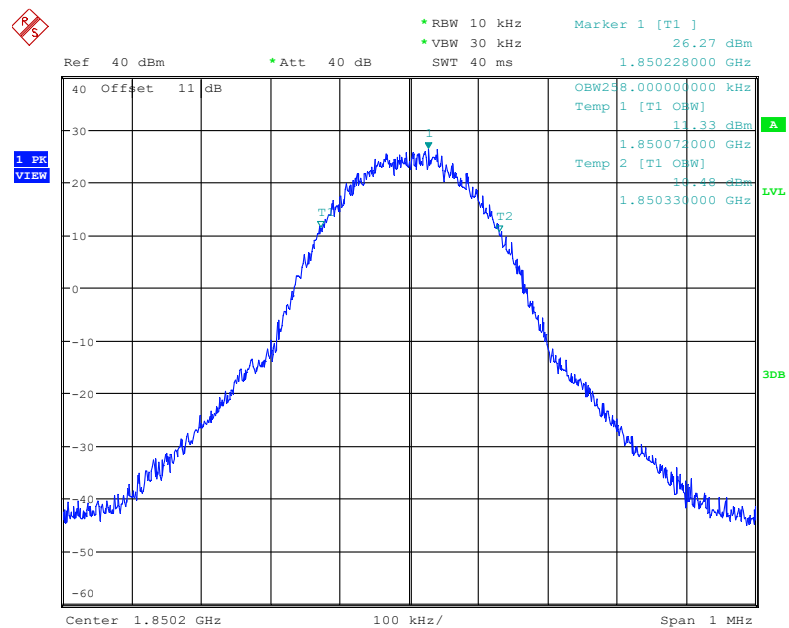
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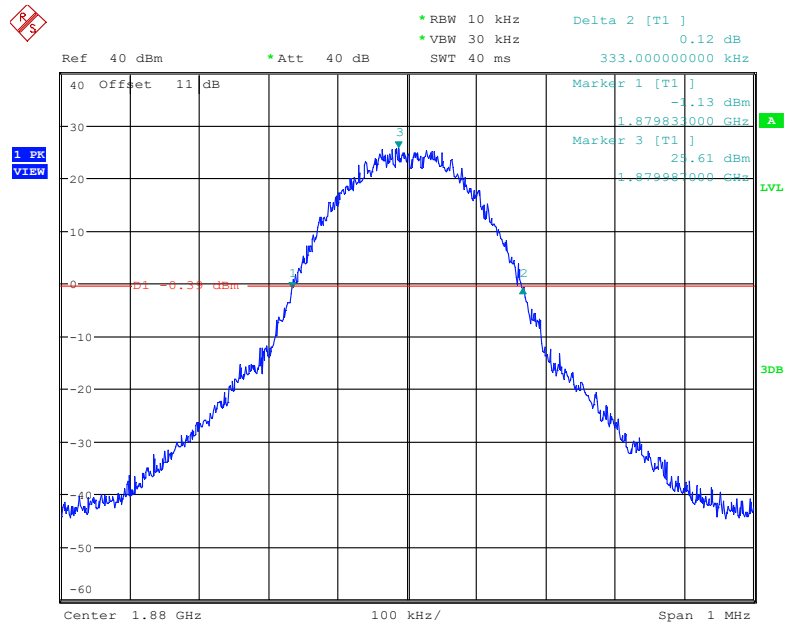
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26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, Low channel

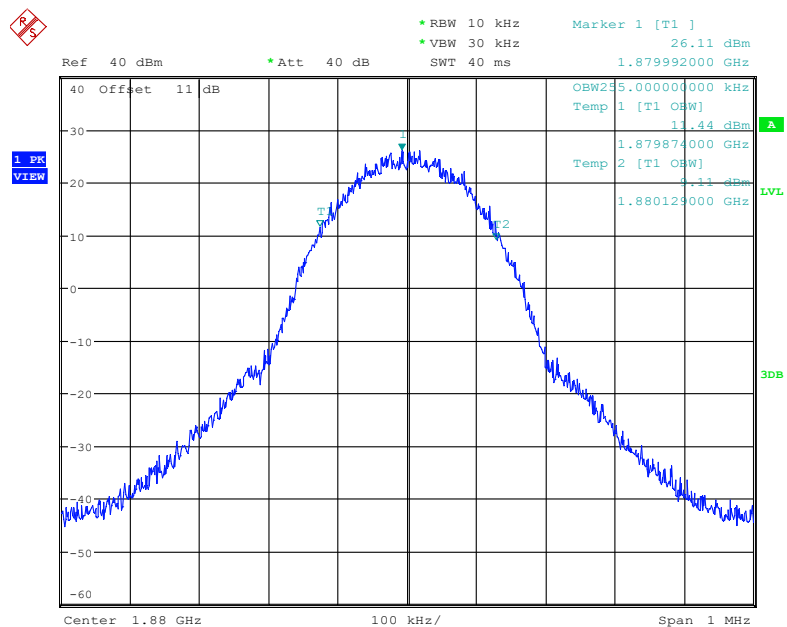
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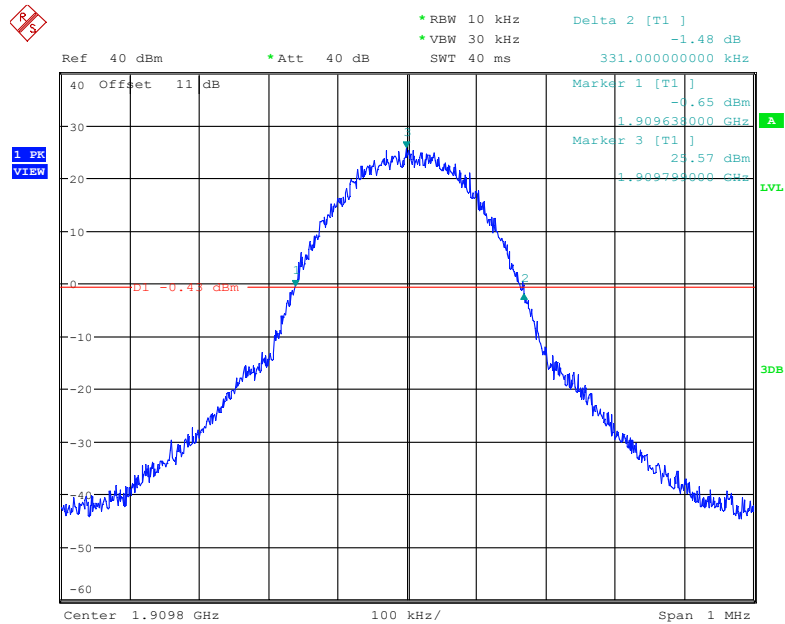
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26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, Middle channel

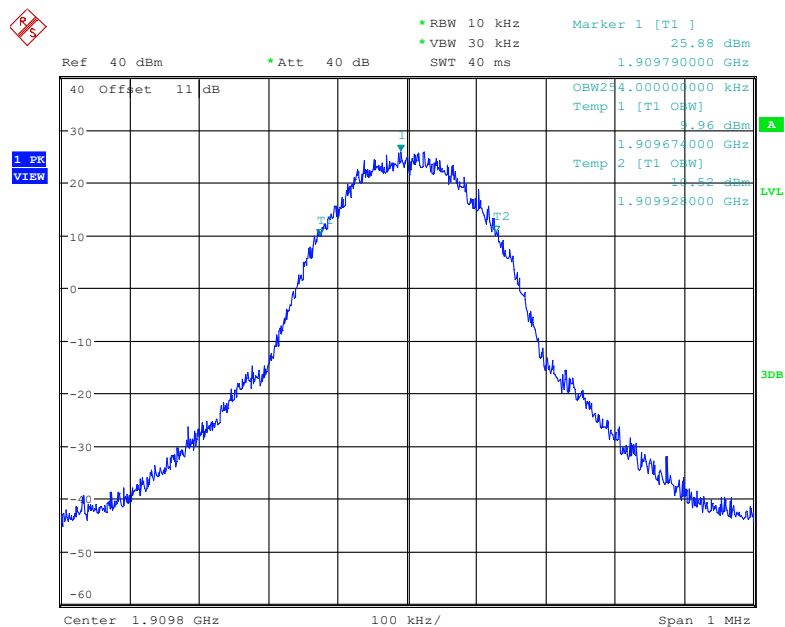
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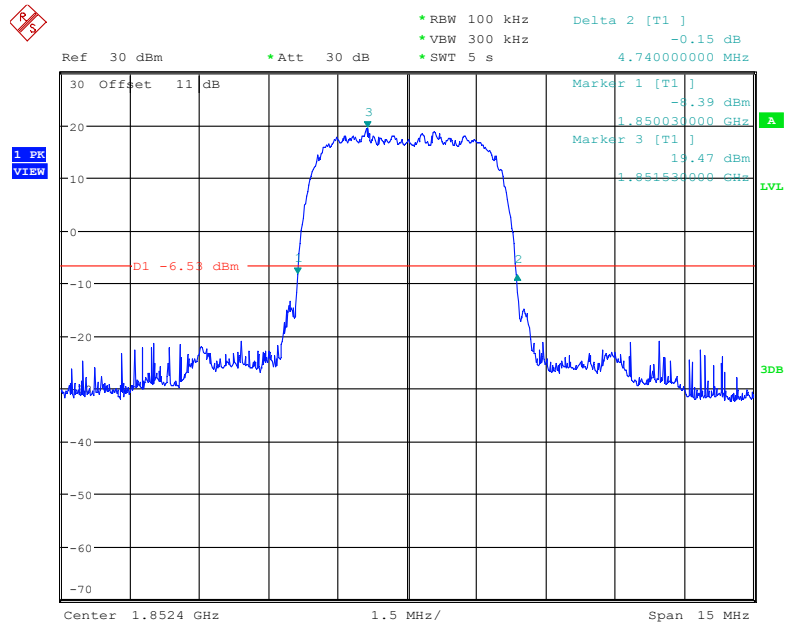
Date: 3.JAN.2023 09:58:10

26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, High channel

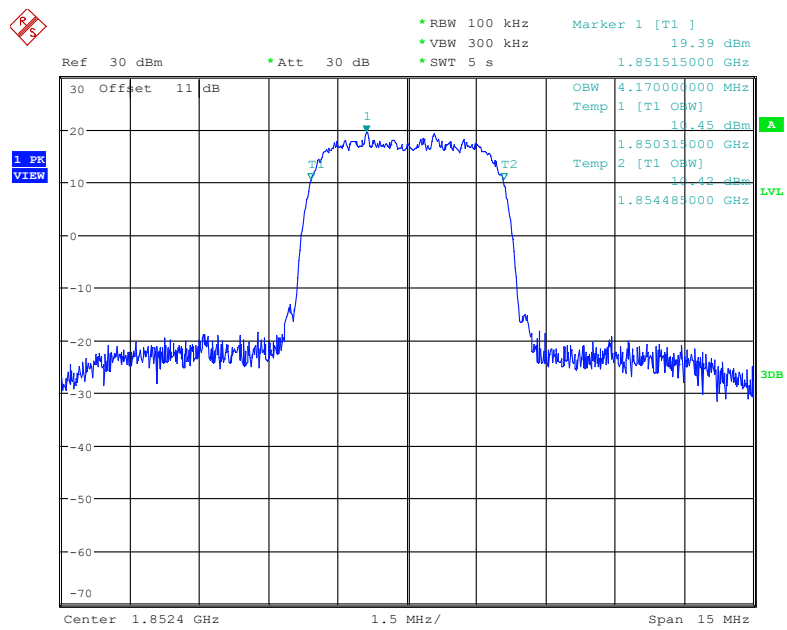
Date: 3.JAN.2023 10:04:40



Date: 3.JAN.2023 10:03:59

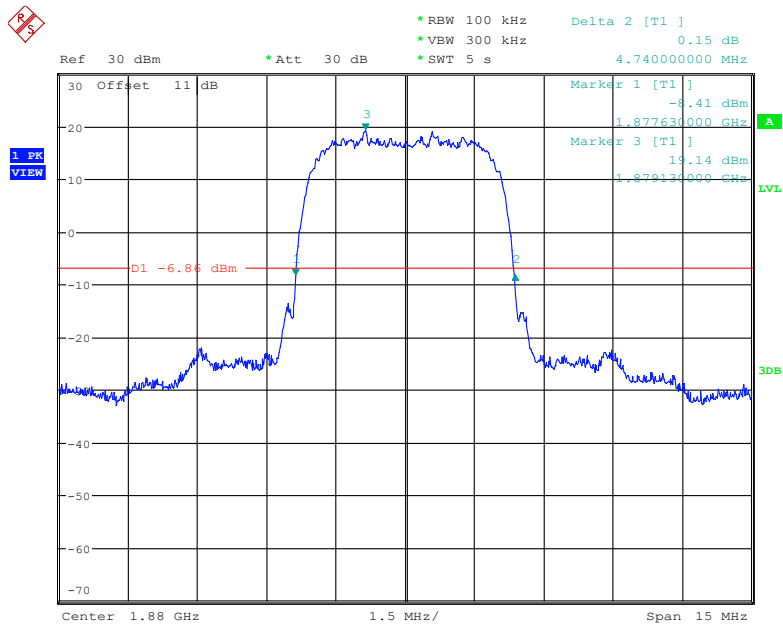
26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel

Date: 3.JAN.2023 10:12:27

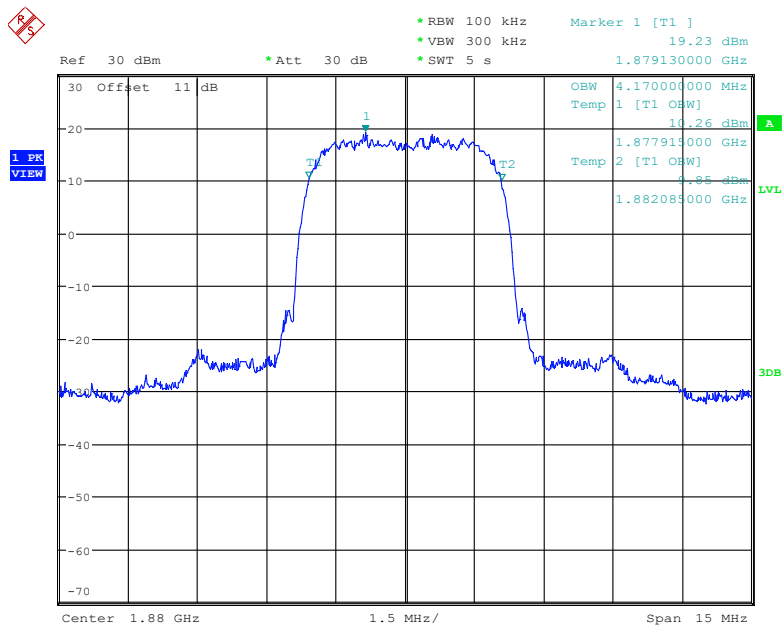


Date: 3.JAN.2023 10:11:49

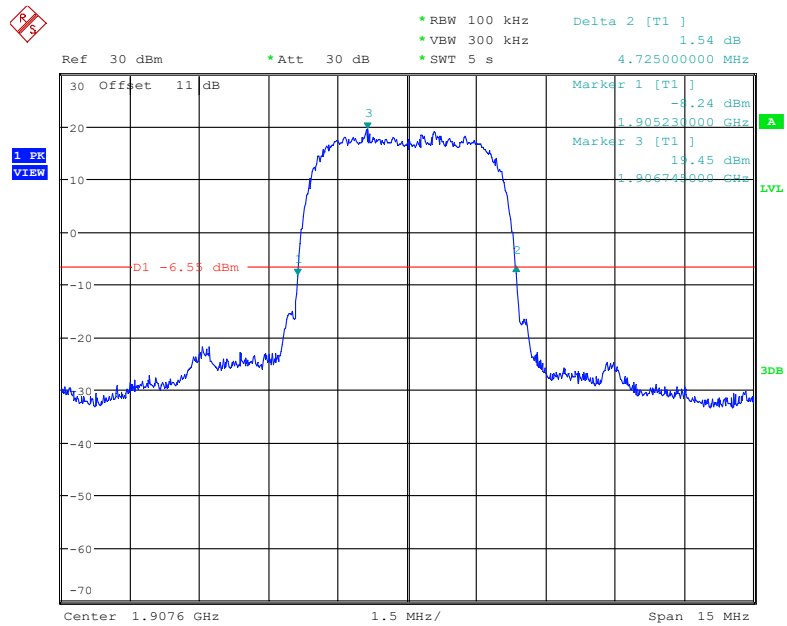
26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel



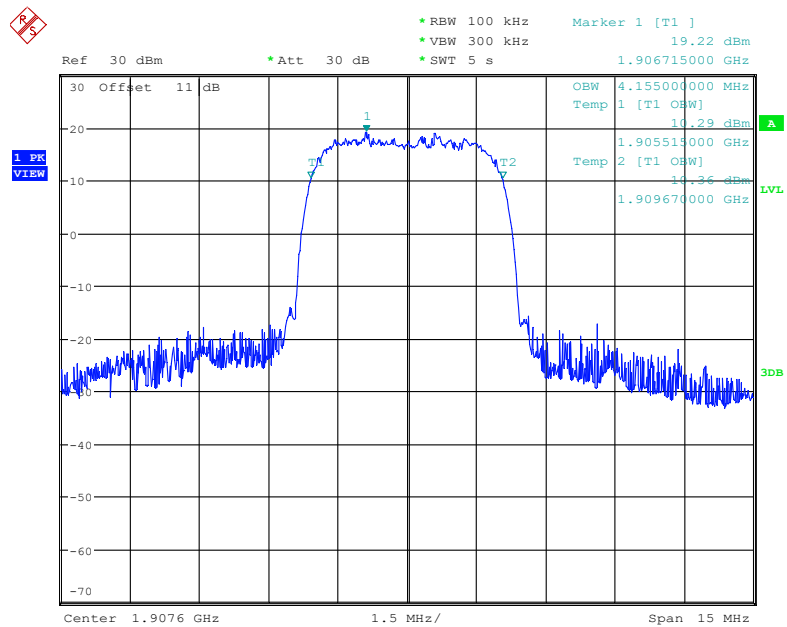
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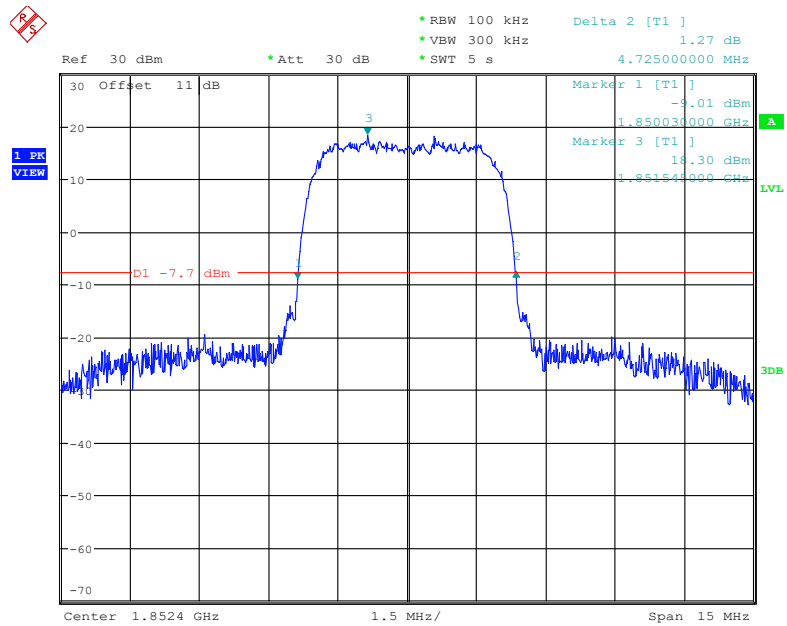
Date: 3.JAN.2023 10:16:09

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel

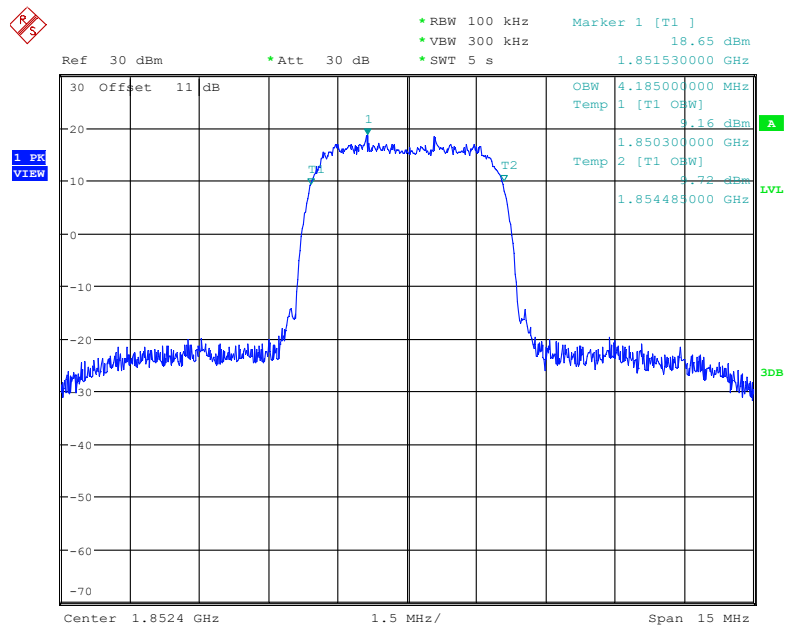
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Date: 3.JAN.2023 10:20:18

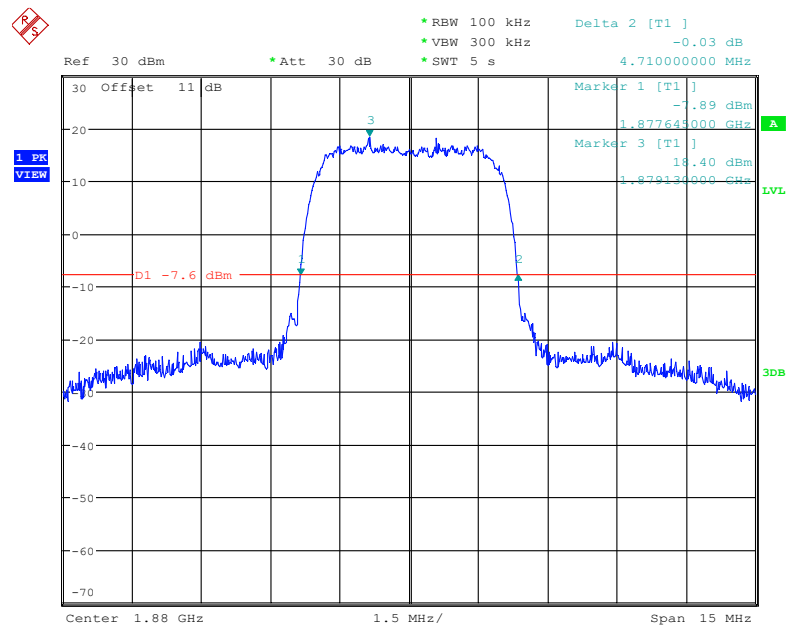
26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Low channel

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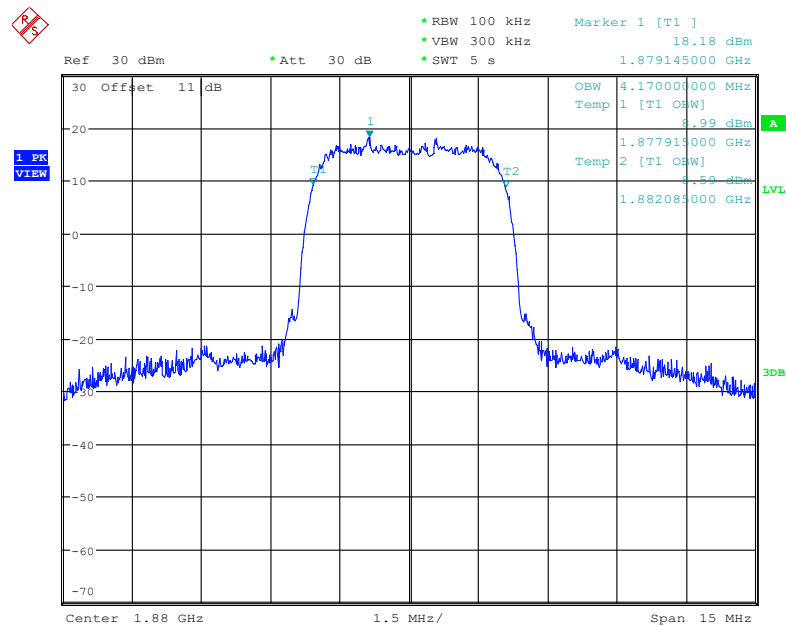


Date: 3.JAN.2023 11:56:51

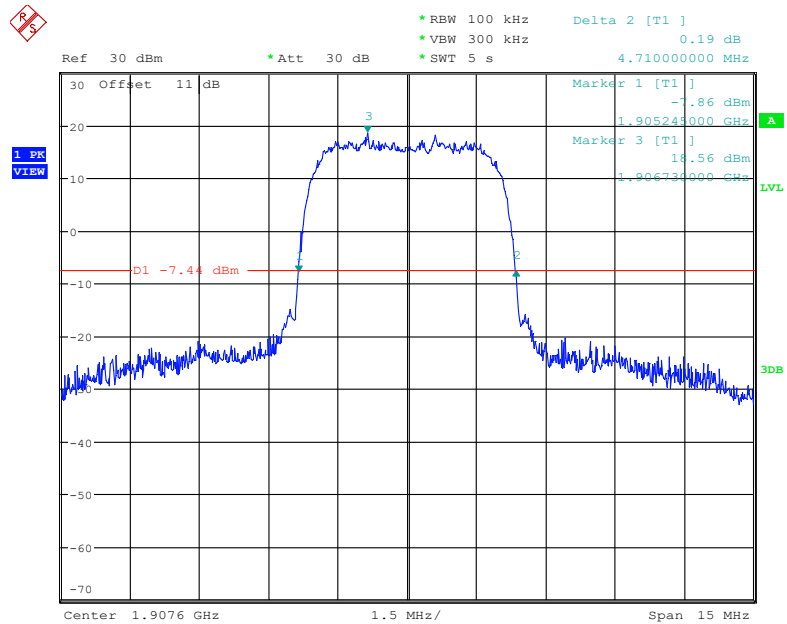
26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Middle channel



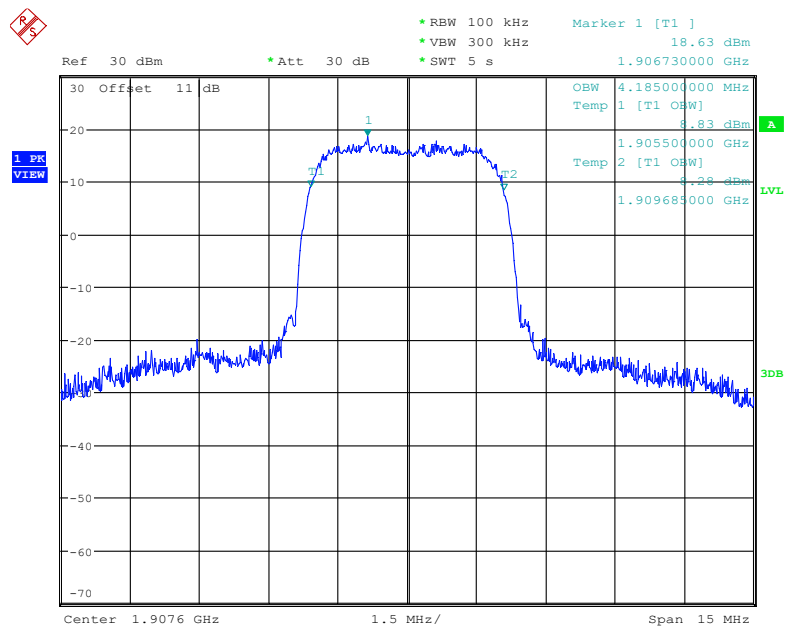
Date: 3.JAN.2023 12:01:24



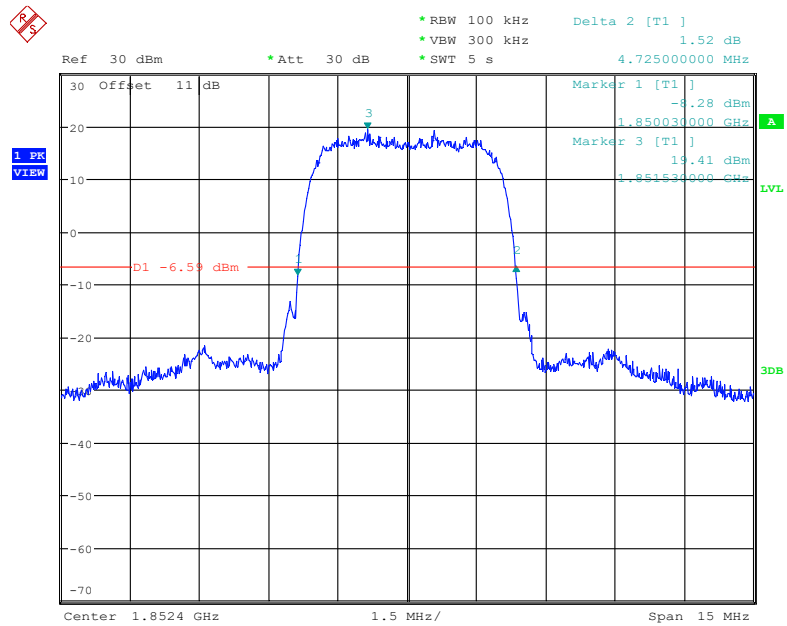
Date: 3.JAN.2023 12:00:46

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, High channel

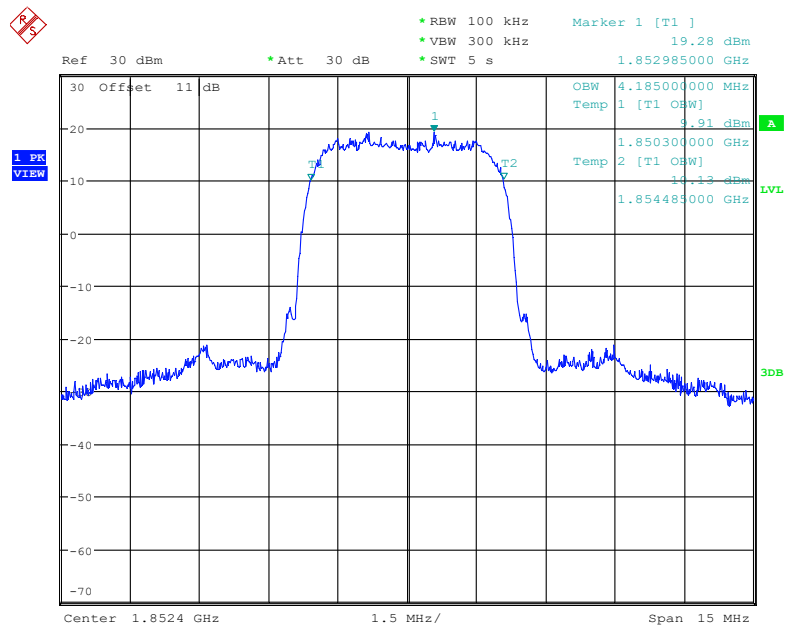
Date: 3.JAN.2023 13:04:07



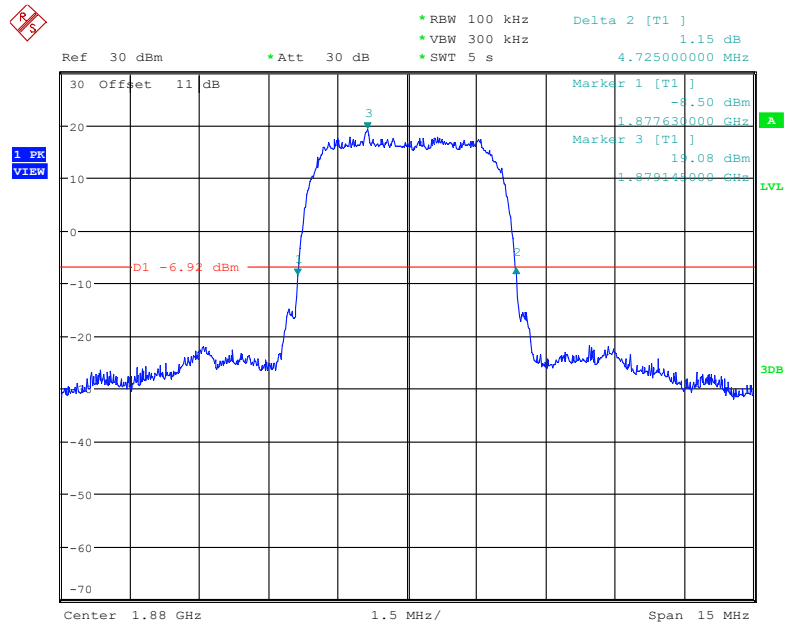
Date: 3.JAN.2023 13:03:26

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, Low channel

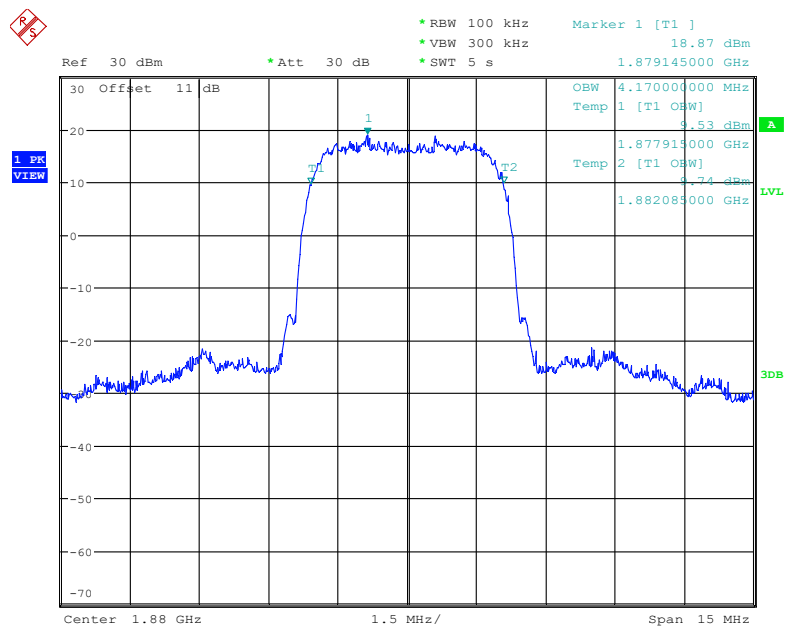
Date: 3.JAN.2023 11:42:39



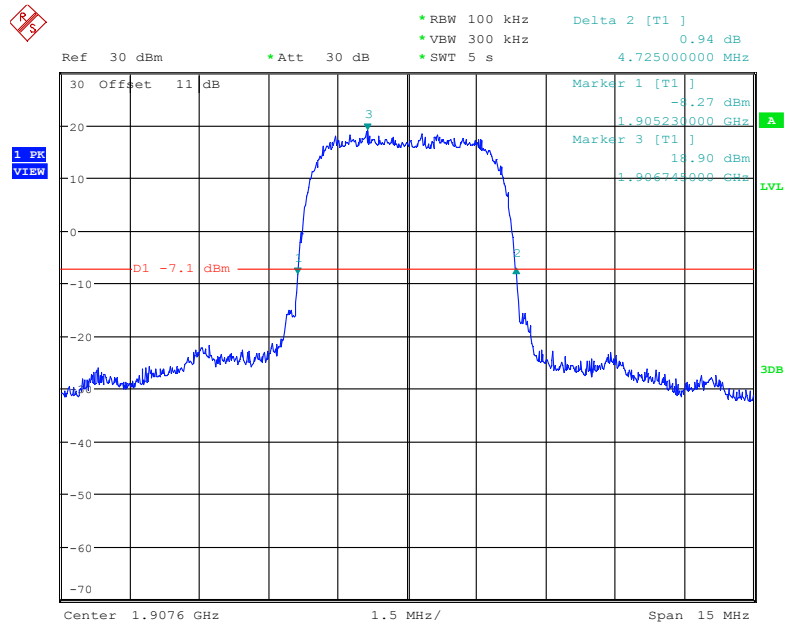
Date: 3.JAN.2023 11:41:59

26 dB Emissions & 99% Occupied Bandwidth for HSPA (16QAM) Mode, Middle channel

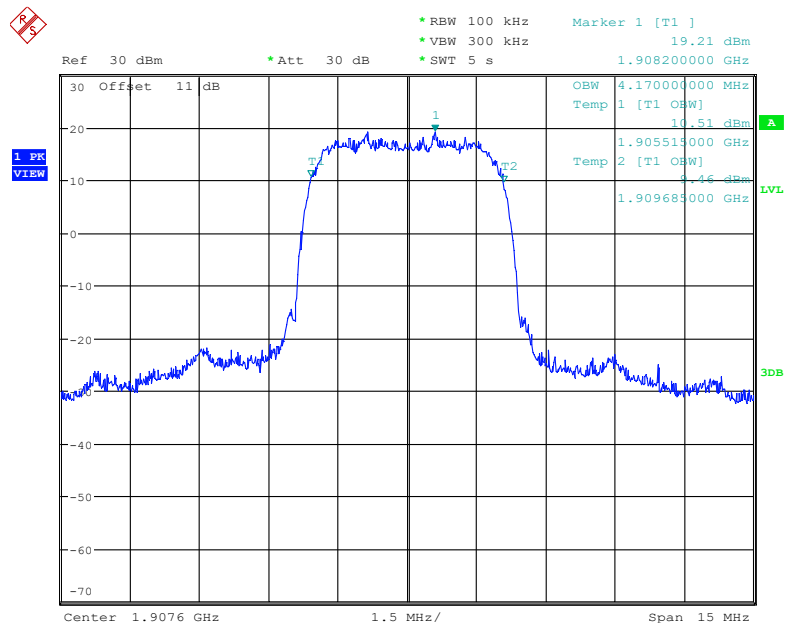
Date: 3.JAN.2023 11:47:19



Date: 3.JAN.2023 11:46:40

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, High channel

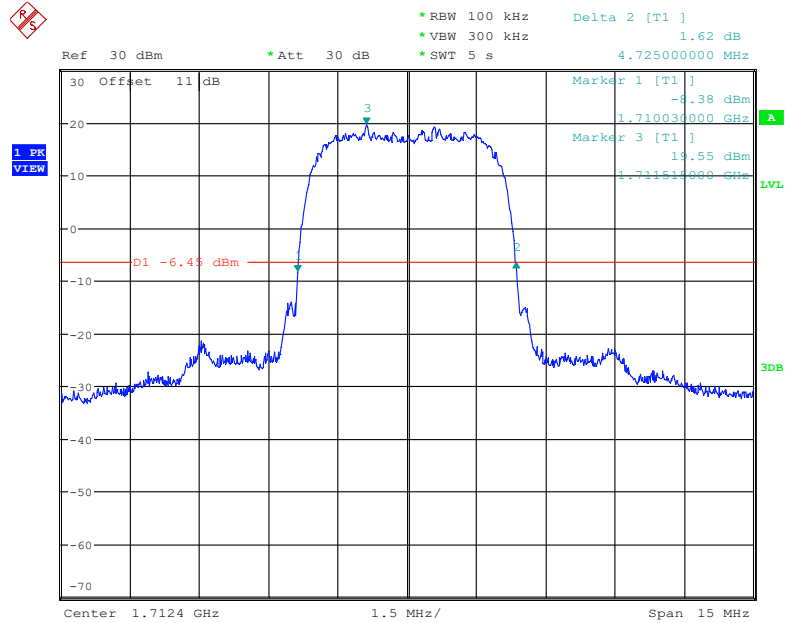
Date: 3.JAN.2023 11:51:30



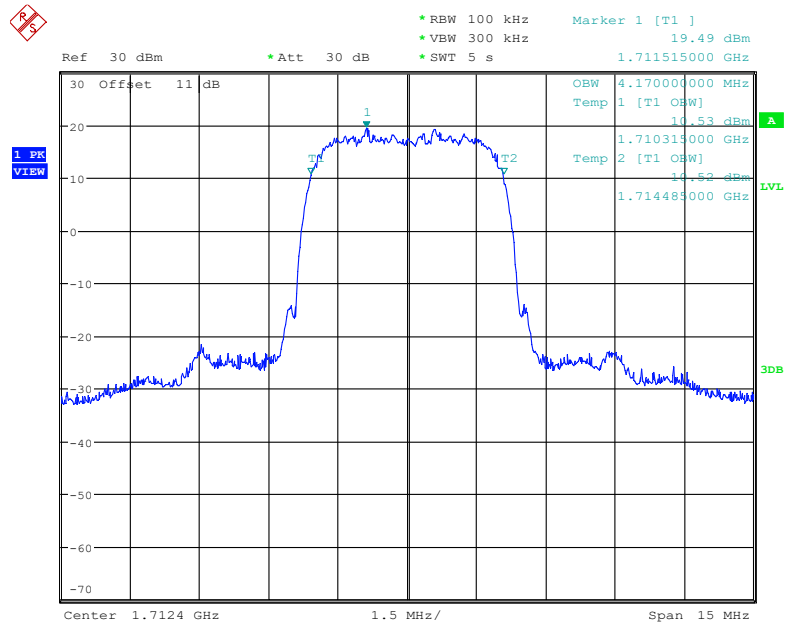
Date: 3.JAN.2023 11:50:49

AWS Band

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel

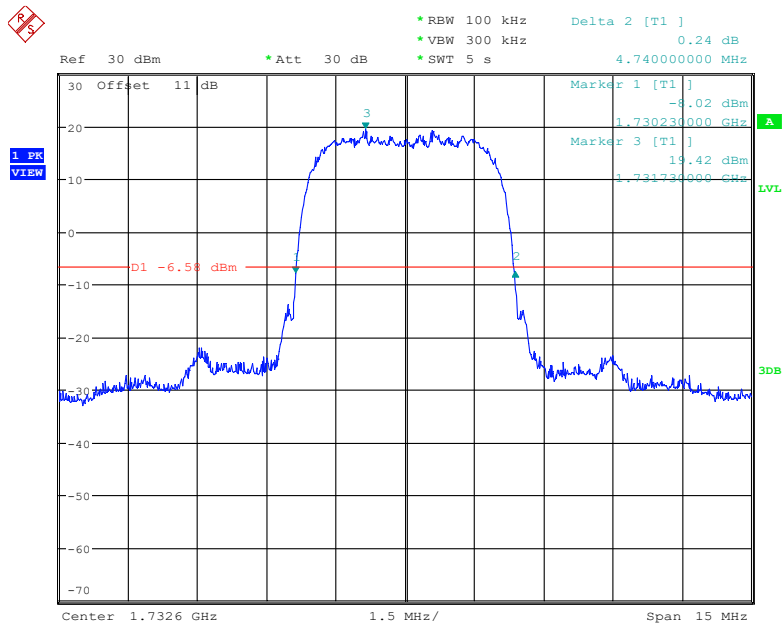


Date: 3.JAN.2023 10:26:43

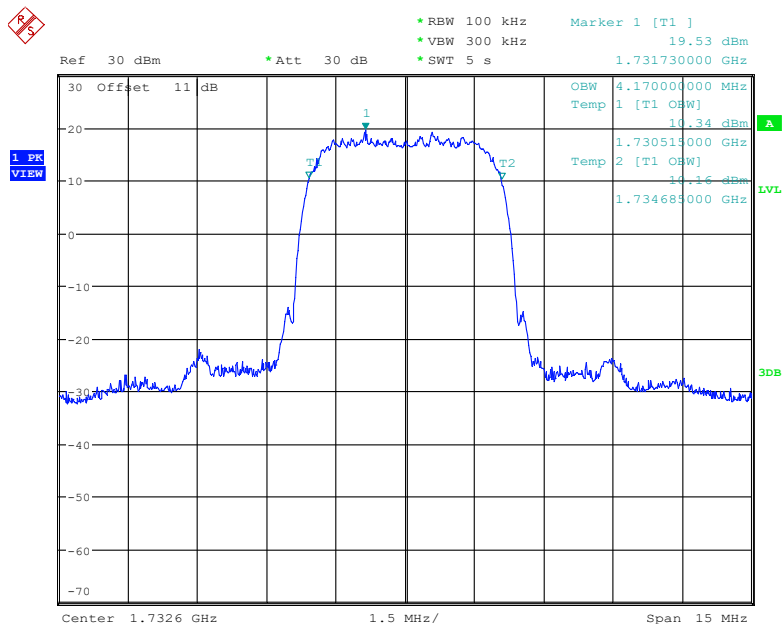


Date: 3.JAN.2023 10:26:02

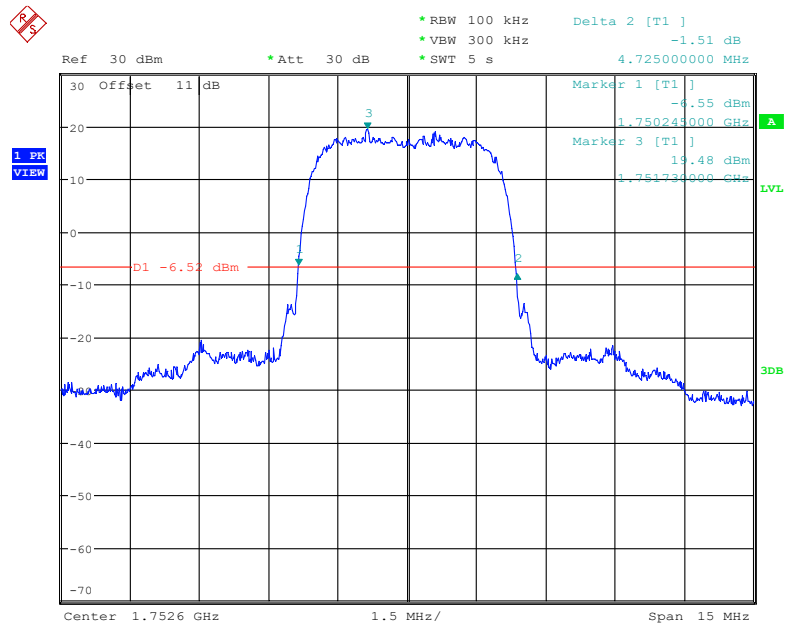
26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel



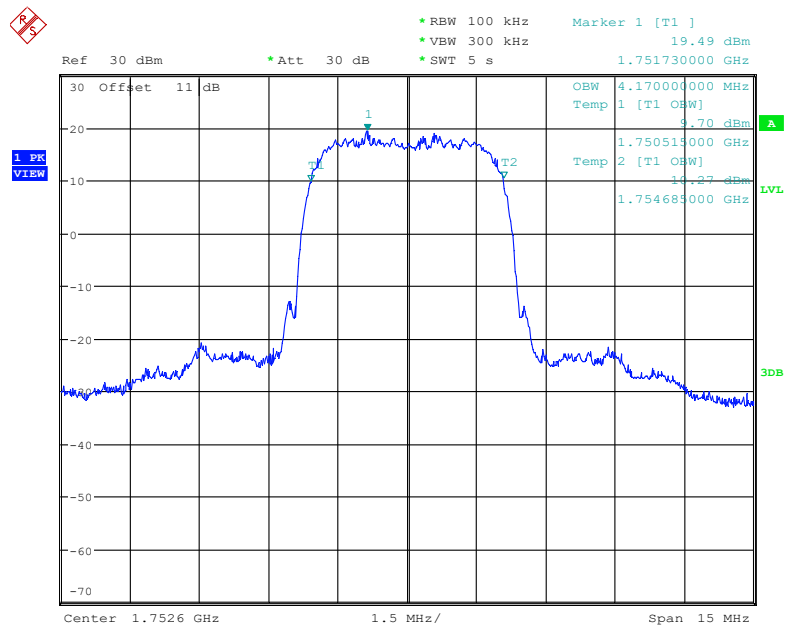
Date: 3.JAN.2023 10:30:44



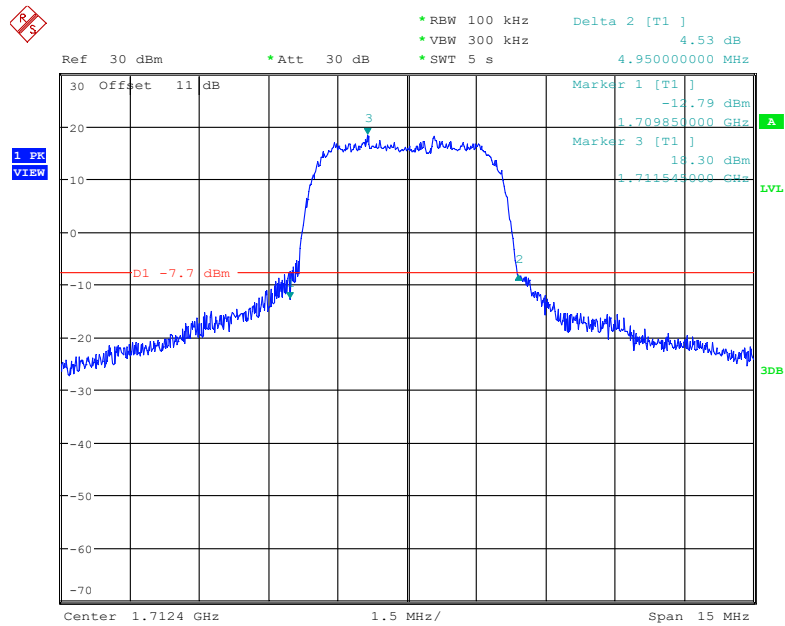
Date: 3.JAN.2023 10:30:03

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel

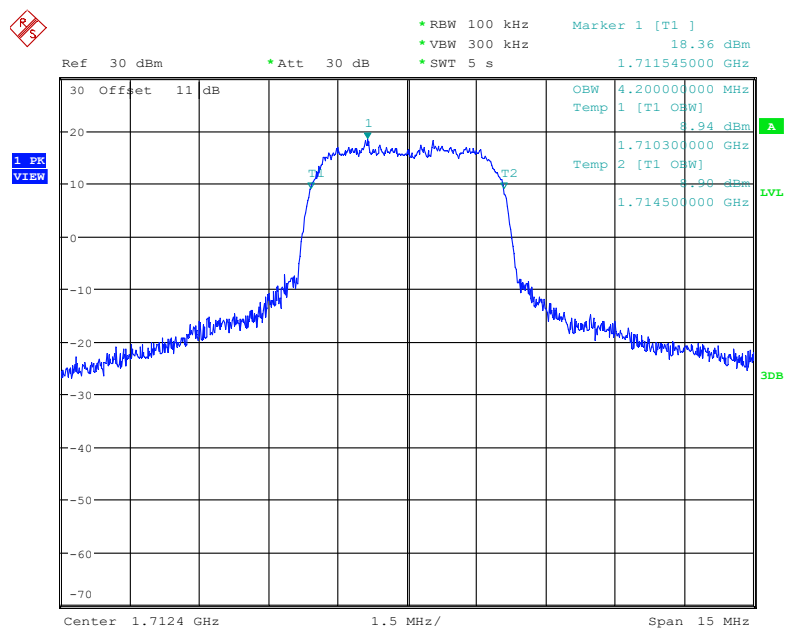
Date: 3.JAN.2023 10:34:54



Date: 3.JAN.2023 10:34:13

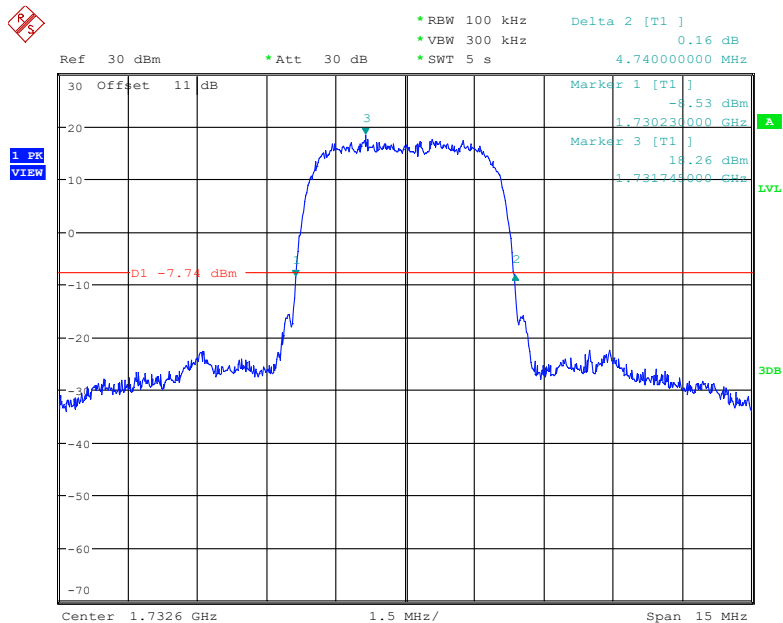
26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Low channel

Date: 3.JAN.2023 11:03:46

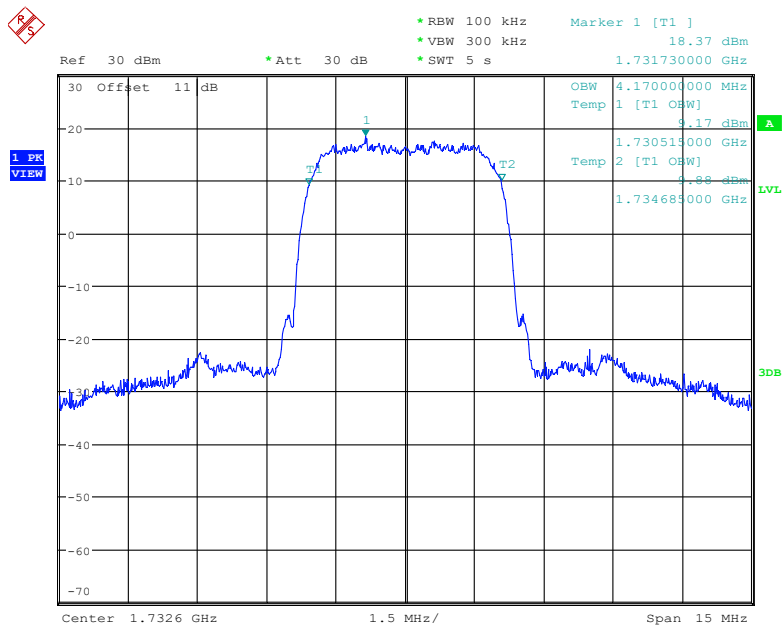


Date: 3.JAN.2023 11:03:06

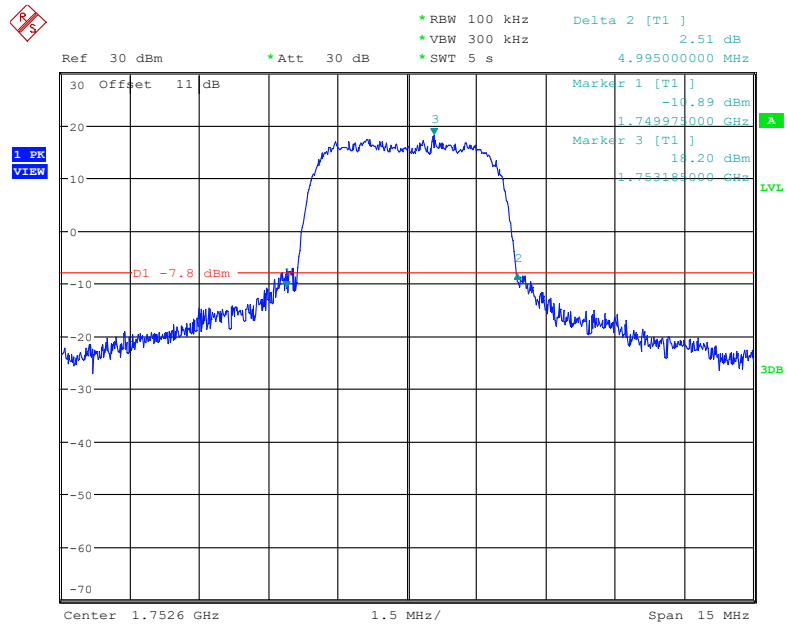
26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Middle channel



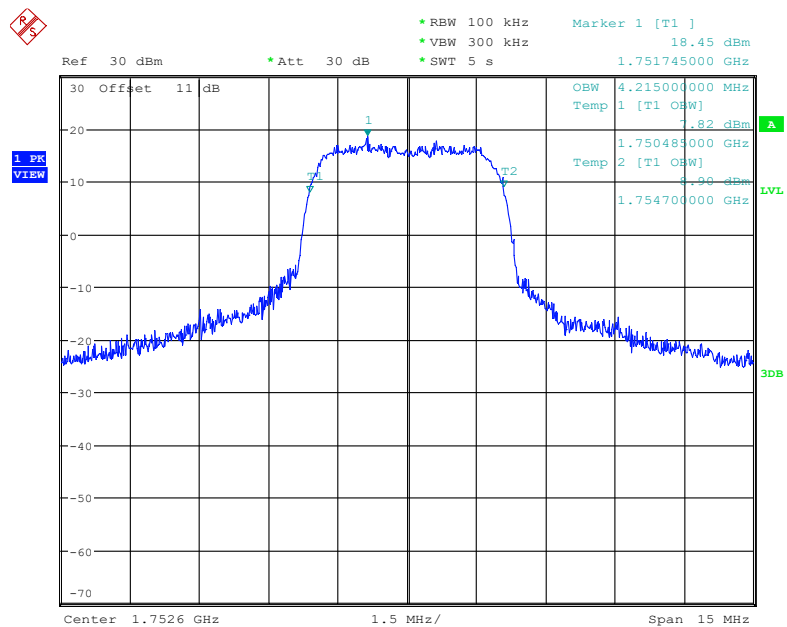
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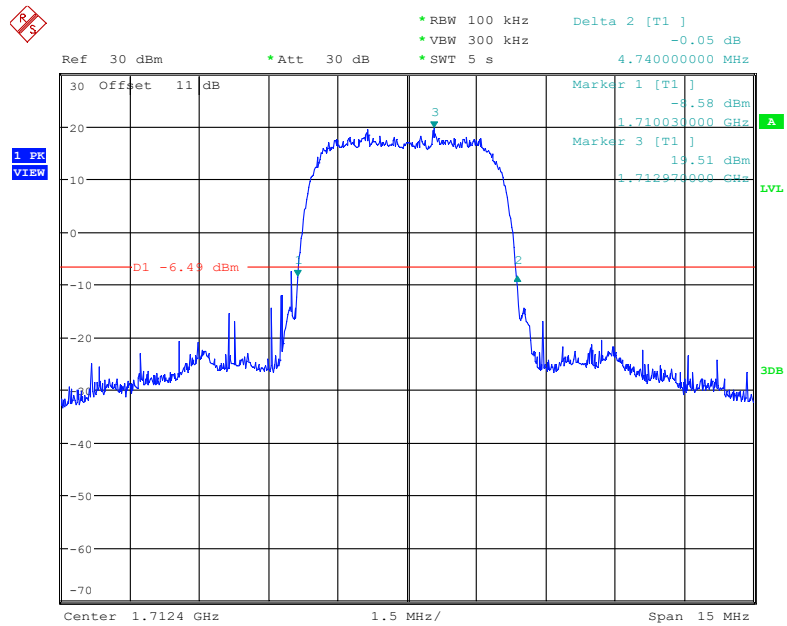
Date: 3.JAN.2023 11:07:23

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, High channel

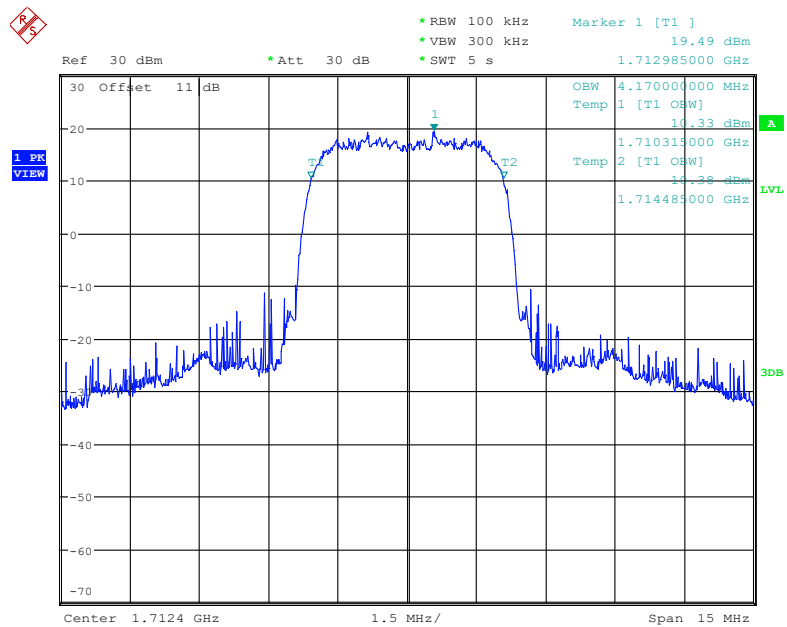
Date: 3.JAN.2023 11:11:32



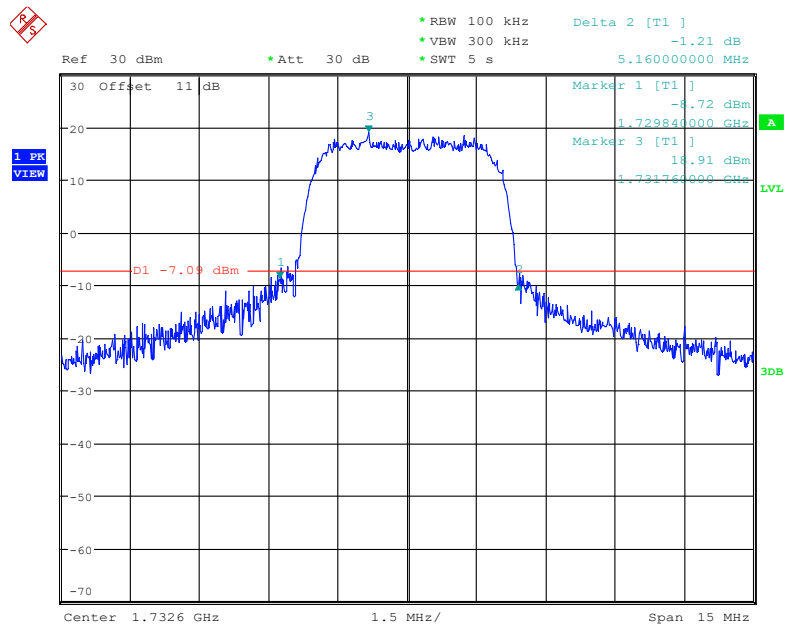
Date: 3.JAN.2023 11:10:52

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, Low channel

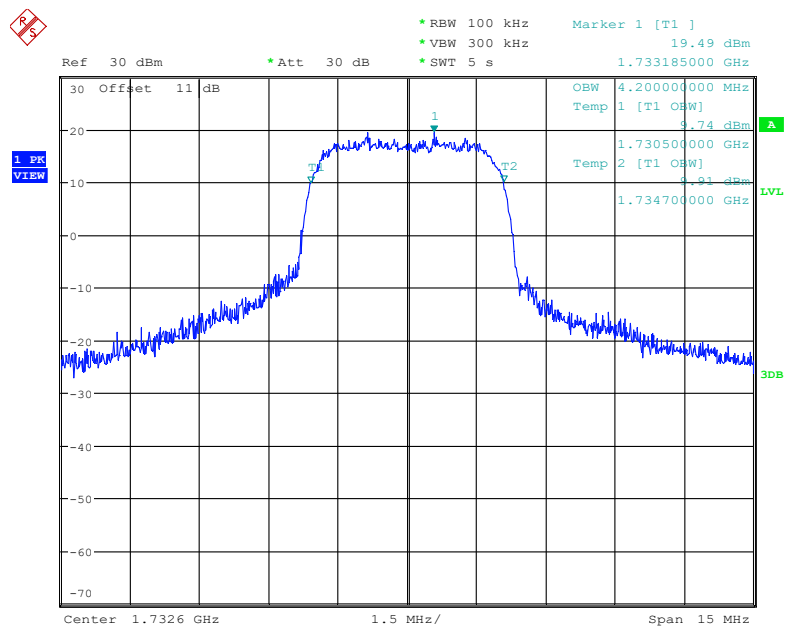
Date: 3.JAN.2023 11:17:03



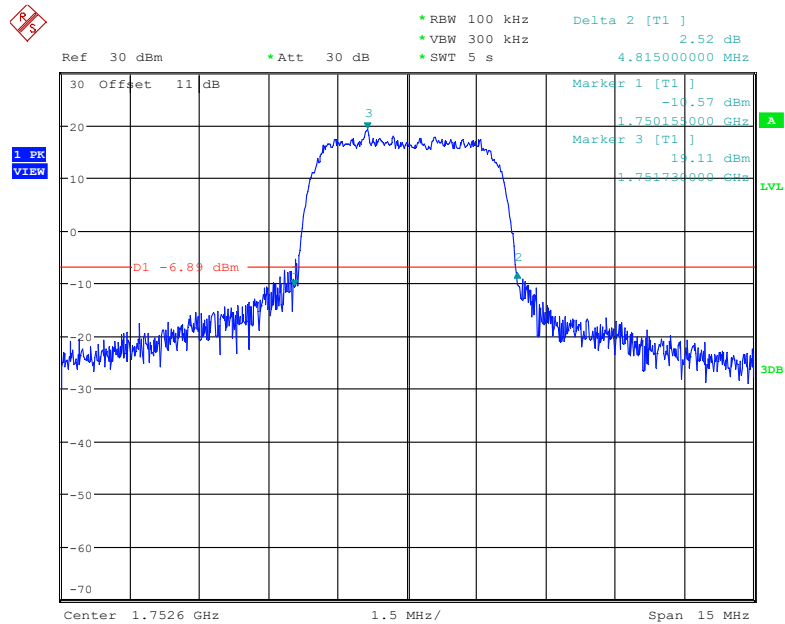
Date: 3.JAN.2023 11:16:23

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, Middle channel

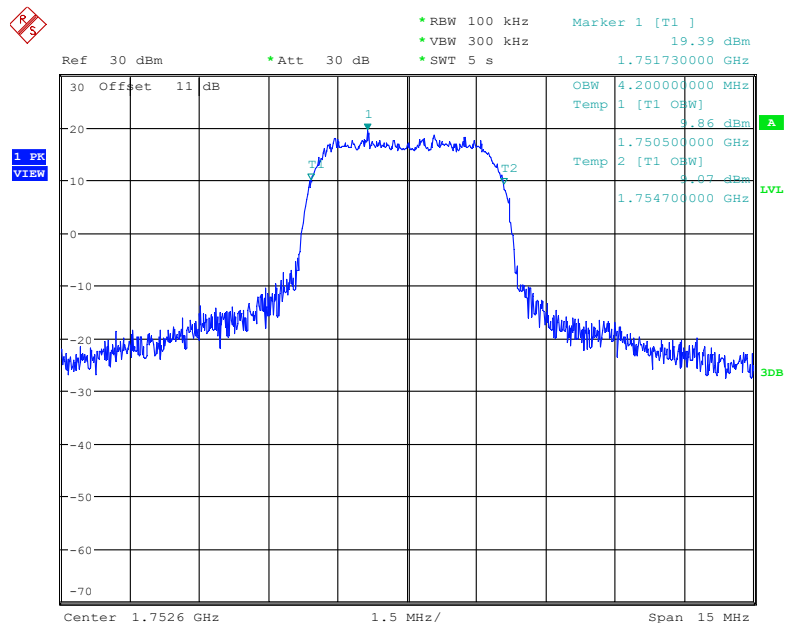
Date: 3.JAN.2023 11:21:15



Date: 3.JAN.2023 11:20:35

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, High channel

Date: 3.JAN.2023 11:24:42



Date: 3.JAN.2023 11:24:03

LTE Band 2:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.104	1.284	1.104	1.308	1.104	1.308
	16QAM	1.098	1.308	1.104	1.314	1.098	1.284
3 MHz	QPSK	2.700	2.880	2.688	2.904	2.688	2.880
	16QAM	2.688	2.880	2.688	2.880	2.688	2.892
5 MHz	QPSK	4.500	4.920	4.500	4.900	4.520	4.940
	16QAM	4.500	4.940	4.500	4.980	4.520	4.920
10 MHz	QPSK	8.960	9.640	8.960	9.600	8.960	9.520
	16QAM	8.960	9.600	8.960	9.560	8.960	9.640
15 MHz	QPSK	13.560	14.880	13.500	14.640	13.560	15.780
	16QAM	13.500	14.820	13.500	14.760	13.500	14.700
20 MHz	QPSK	18.000	19.360	17.920	19.440	18.000	19.360
	16QAM	18.000	19.600	18.000	19.360	18.000	19.440

LTE Band 4:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.104	1.308	1.104	1.296	1.092	1.296
	16QAM	1.092	1.284	1.098	1.296	1.104	1.314
3 MHz	QPSK	2.688	2.880	2.676	2.880	2.700	2.868
	16QAM	2.688	2.880	2.688	2.868	2.688	2.880
5 MHz	QPSK	4.500	4.920	4.520	5.300	4.520	4.960
	16QAM	4.500	4.960	4.520	5.520	4.520	4.920
10 MHz	QPSK	8.960	9.680	8.960	9.600	8.960	9.560
	16QAM	8.960	9.560	8.960	9.560	8.960	9.560
15 MHz	QPSK	13.560	14.880	13.500	14.760	13.560	14.760
	16QAM	13.620	14.820	13.560	16.500	13.560	14.700
20 MHz	QPSK	18.000	19.600	18.000	19.360	18.000	19.280
	16QAM	18.000	19.440	18.000	19.280	18.000	19.440

LTE Band 5:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.104	1.302	1.098	1.302	1.104	1.320
	16QAM	1.098	1.290	1.104	1.308	1.098	1.290
3 MHz	QPSK	2.688	2.892	2.676	2.856	2.688	2.868
	16QAM	2.688	2.892	2.676	2.904	2.688	2.892
5 MHz	QPSK	4.500	4.940	4.500	4.980	4.500	4.920
	16QAM	4.520	4.980	4.520	4.900	4.520	4.960
10 MHz	QPSK	8.960	9.560	8.960	9.640	8.960	9.560
	16QAM	8.960	9.600	8.960	9.640	8.960	9.560

LTE Band 7:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.520	4.940	4.500	4.920	4.520	4.940
	16QAM	4.540	4.960	4.500	4.980	4.500	4.960
10 MHz	QPSK	8.960	9.600	8.960	9.680	8.960	9.680
	16QAM	8.960	9.560	8.960	9.640	8.960	9.600
15 MHz	QPSK	13.500	14.760	13.500	14.760	13.560	14.880
	16QAM	13.500	14.700	13.500	14.760	13.560	15.000
20 MHz	QPSK	18.000	19.120	17.920	19.280	18.000	19.600
	16QAM	17.920	19.360	17.920	19.280	18.000	19.280

LTE Band 12:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.104	1.308	1.104	1.296	1.098	1.308
	16QAM	1.092	1.302	1.104	1.440	1.104	1.320
3 MHz	QPSK	2.688	2.892	2.688	2.880	2.688	2.880
	16QAM	2.688	2.868	2.676	2.892	2.688	2.856
5 MHz	QPSK	4.520	5.640	4.540	5.140	4.540	5.120
	16QAM	4.540	5.180	4.520	5.040	4.540	5.160
10 MHz	QPSK	8.960	9.920	8.960	9.960	8.960	9.720
	16QAM	8.960	9.880	8.960	9.840	8.960	9.760

LTE Band 17:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.520	5.120	4.520	5.160	4.540	5.200
	16QAM	4.540	5.180	4.520	5.220	4.520	5.180
10 MHz	QPSK	8.960	9.960	8.960	9.960	8.960	9.800
	16QAM	8.960	9.840	8.960	9.760	8.960	9.800

LTE Band 38

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.520	5.040	4.500	4.960	4.500	5.220
	16QAM	4.500	5.020	4.520	5.200	4.500	4.960
10 MHz	QPSK	8.960	9.680	9.000	9.640	8.960	9.640
	16QAM	8.960	9.720	9.000	9.560	8.960	9.480
15 MHz	QPSK	13.500	14.940	13.560	15.240	13.500	15.540
	16QAM	13.560	16.080	13.500	16.320	13.560	15.360
20 MHz	QPSK	18.000	19.920	18.000	19.680	18.000	19.200
	16QAM	18.000	20.000	18.000	19.360	18.000	19.360

LTE Band 41

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.500	5.220	4.520	4.940	4.520	5.140
	16QAM	4.500	4.900	4.500	5.160	4.520	5.120
10 MHz	QPSK	8.960	9.600	8.960	9.680	9.000	9.640
	16QAM	8.960	9.440	8.960	9.720	8.960	9.600
15 MHz	QPSK	13.500	14.940	13.500	15.300	13.560	15.420
	16QAM	13.560	15.300	13.620	15.840	13.500	15.360
20 MHz	QPSK	18.000	19.600	17.920	19.280	18.000	19.680
	16QAM	17.920	19.520	18.000	19.840	18.000	19.120

LTE Band 66

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.110	1.3260	1.104	1.290	1.098	1.284
	16QAM	1.104	1.470	1.098	1.308	1.098	1.296
3 MHz	QPSK	2.700	3.996	2.688	2.856	2.688	2.880
	16QAM	2.688	3.612	2.688	2.880	2.688	2.892
5 MHz	QPSK	4.520	5.100	4.540	5.160	4.520	5.180
	16QAM	4.540	5.180	4.520	5.200	4.520	5.200
10 MHz	QPSK	8.960	9.880	8.960	9.960	8.960	9.680
	16QAM	8.960	10.760	8.960	9.880	8.960	9.720
15 MHz	QPSK	13.502	15.239	13.510	15.192	13.459	15.065
	16QAM	13.502	15.022	13.558	15.096	13.502	14.978
20 MHz	QPSK	18.012	19.679	18.013	19.679	18.013	19.615
	16QAM	18.013	19.872	17.949	19.615	18.013	19.808

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

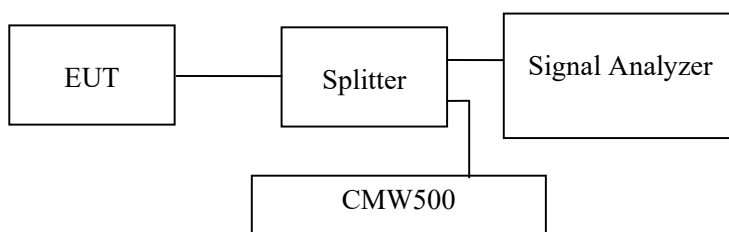
Applicable Standard

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

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 has included in plot.

Test Data

Environmental Conditions

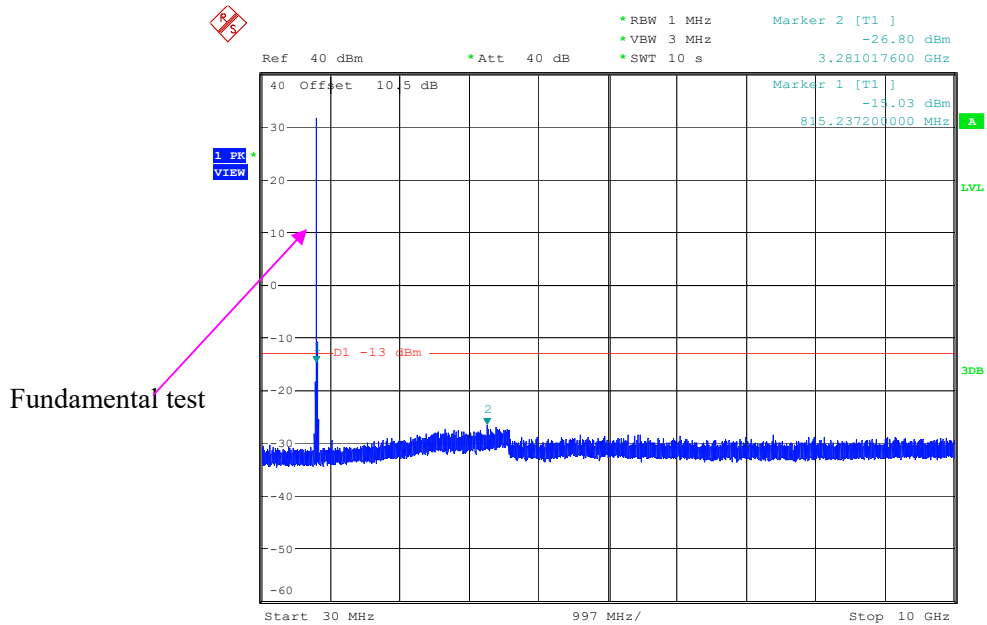
Temperature:	24.8~27.2℃
Relative Humidity:	52~56.2 %
ATM Pressure:	101.0 kPa

The testing was performed by Glenn Jiang from 2023-01-03 to 2023-02-14.

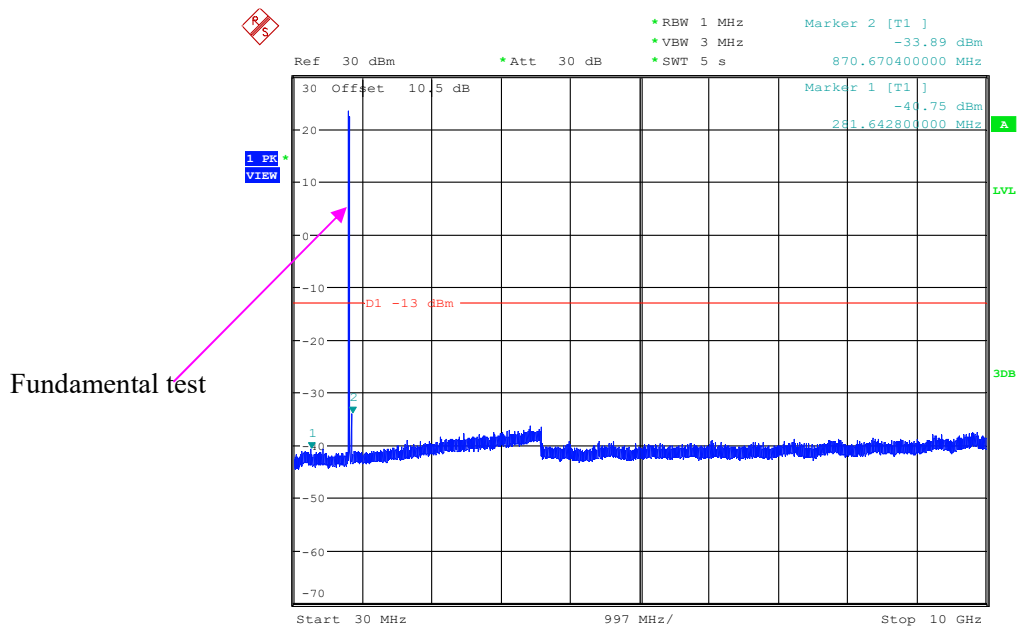
EUT operation mode: Transmitting

Test result: Pass

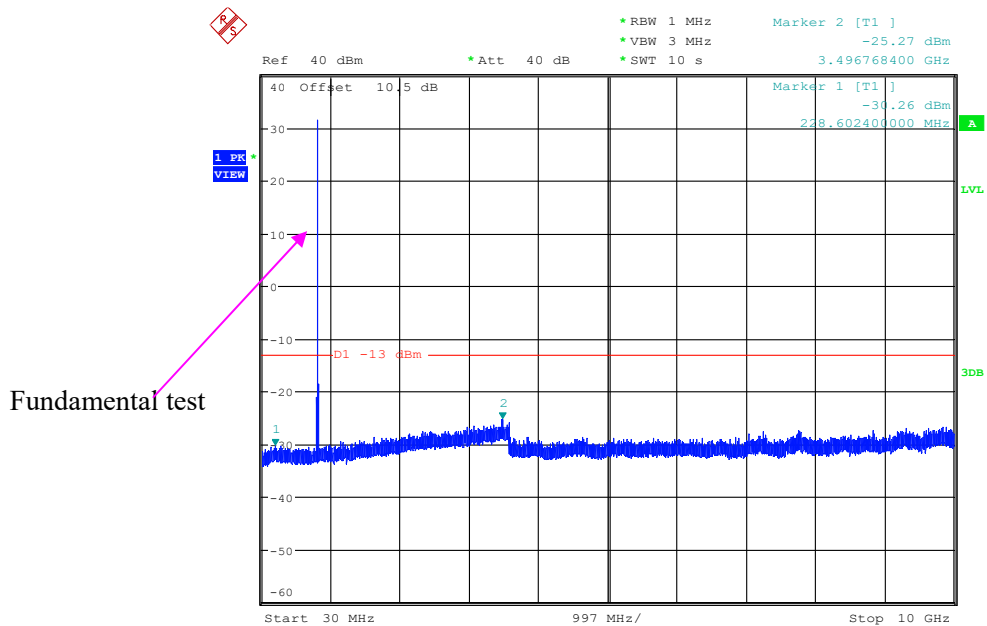
Please refer to the following plots.

Cellular Band (Part 22H)
Low Channel:**30 MHz – 10 GHz (GSM Mode)**

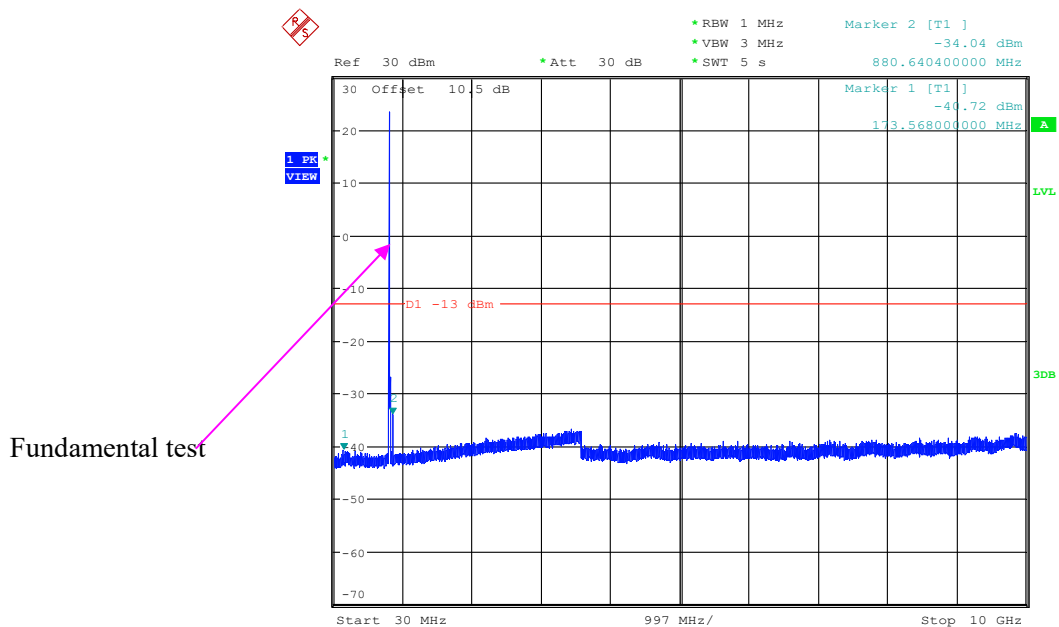
Date: 8.FEB.2023 13:28:21

30 MHz – 10 GHz (WCDMA Mode)

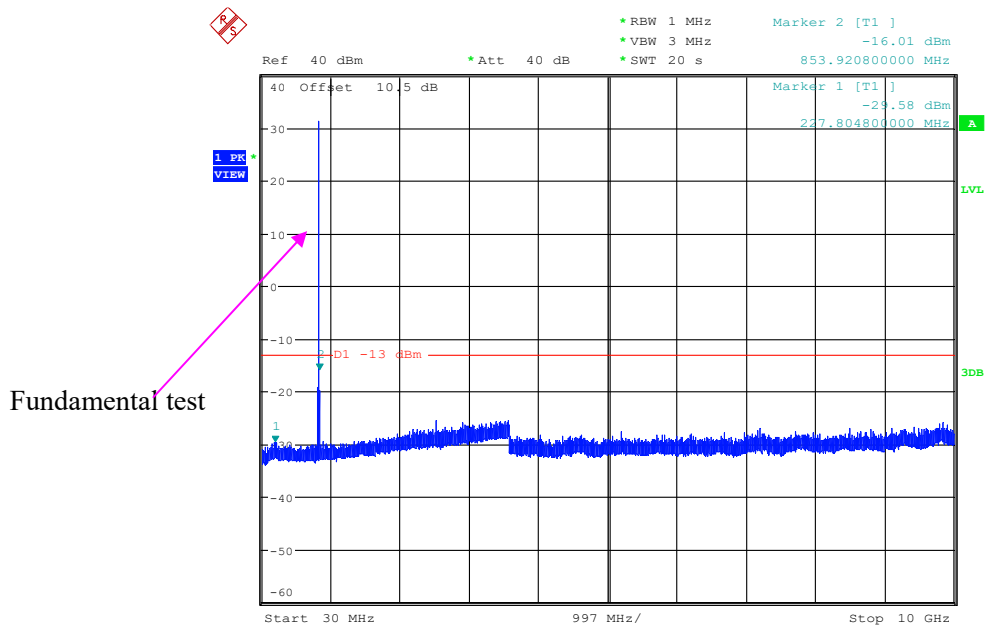
Date: 3.JAN.2023 10:42:05

Middle Channel:**30 MHz – 10 GHz (GSM Mode)**

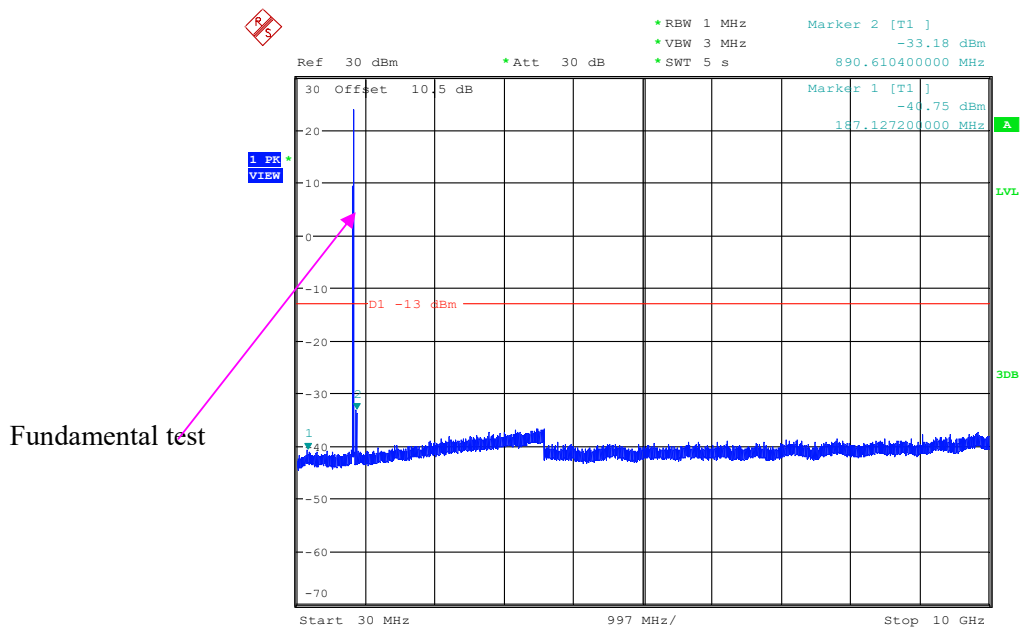
Date: 3.JAN.2023 08:56:03

30 MHz – 10 GHz (WCDMA Mode)

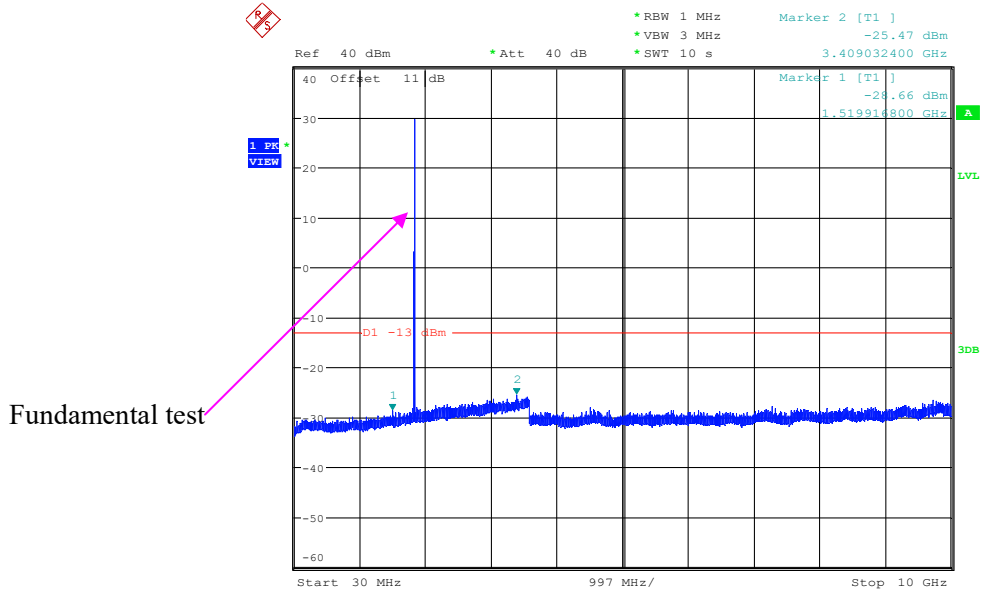
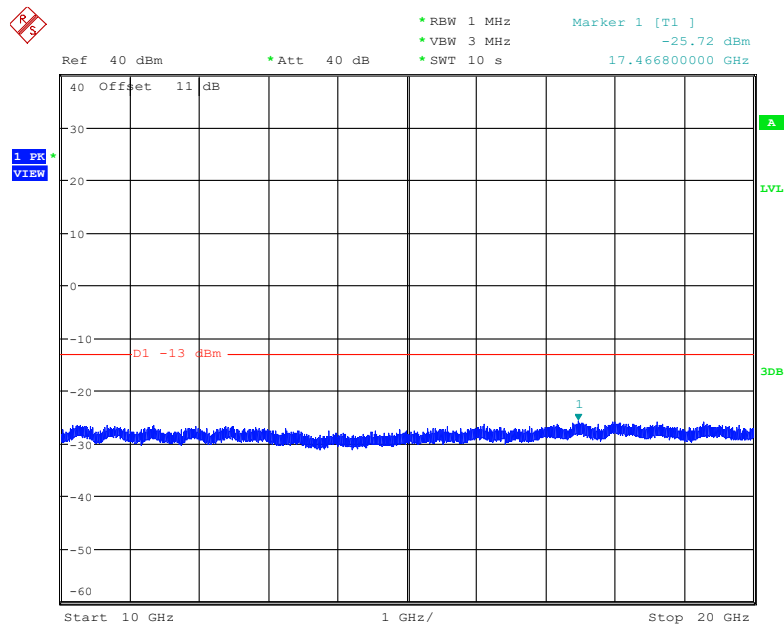
Date: 3.JAN.2023 10:44:56

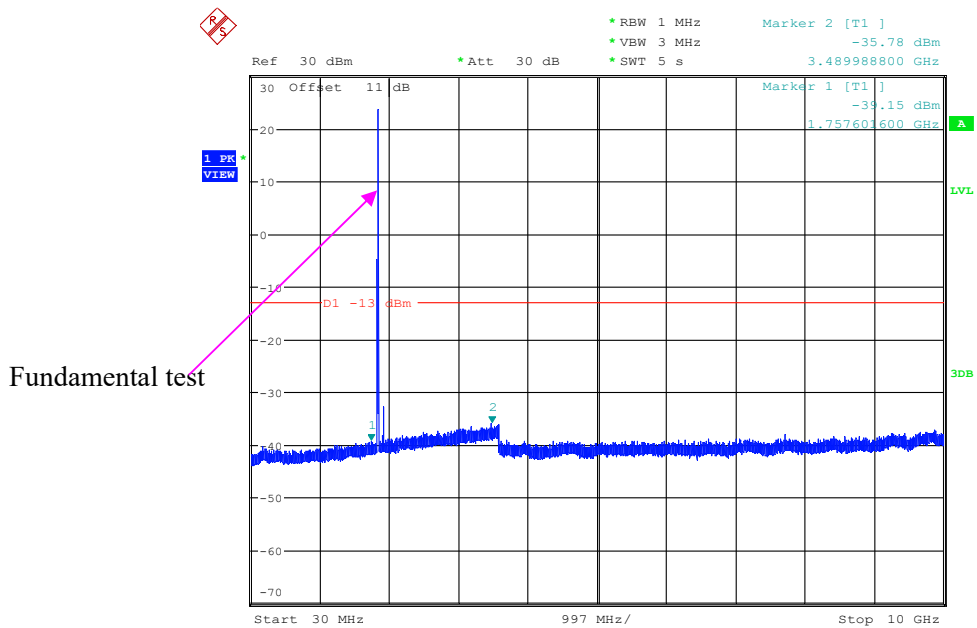
High Channel:**30 MHz – 10 GHz (GSM Mode)**

Date: 3.JAN.2023 09:01:21

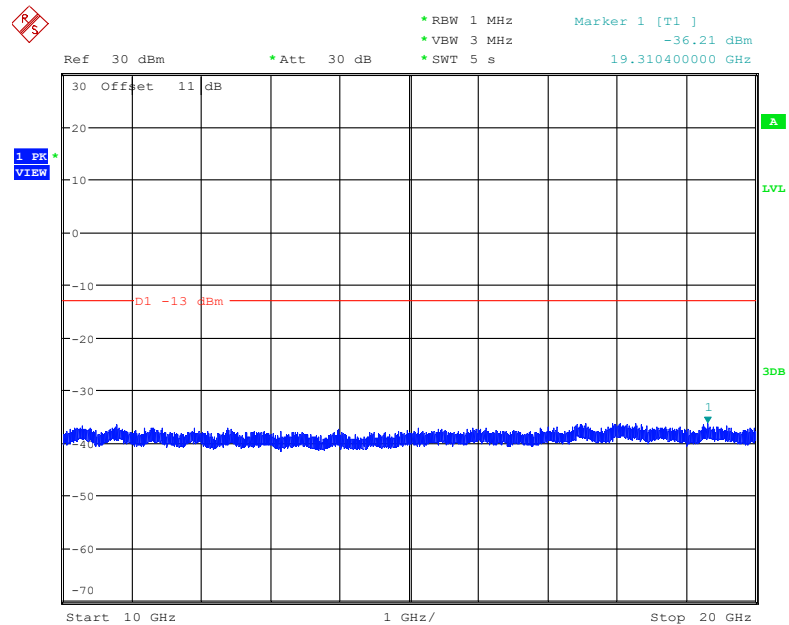
30 MHz – 10 GHz (WCDMA Mode)

Date: 3.JAN.2023 10:48:35

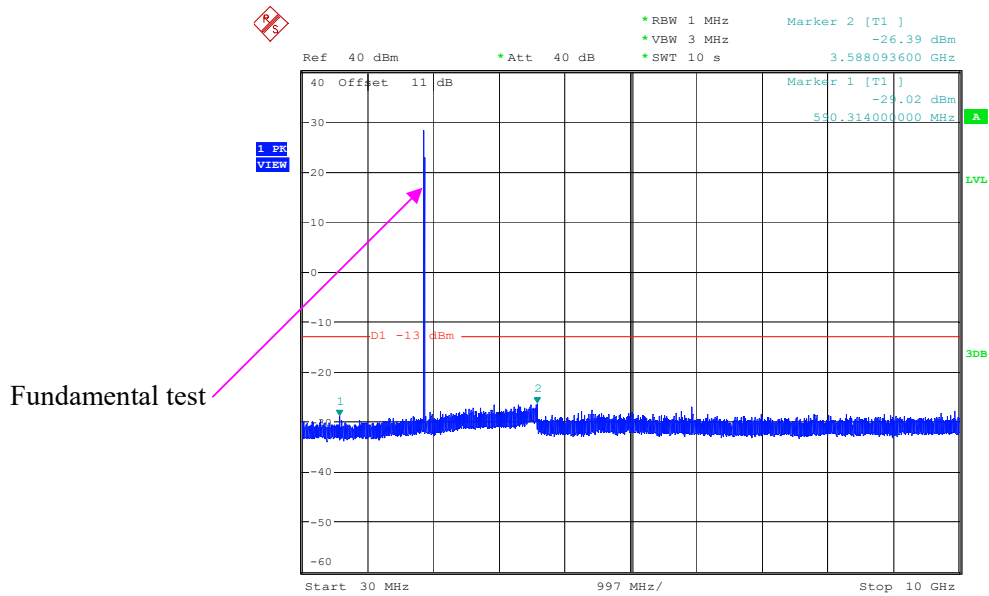
**PCS Band (Part 24E)
Low Channel:****30 MHz – 10 GHz (GSM Mode)****10 GHz – 20 GHz (GSM Mode)**

30 MHz – 10 GHz (WCDMA Mode)

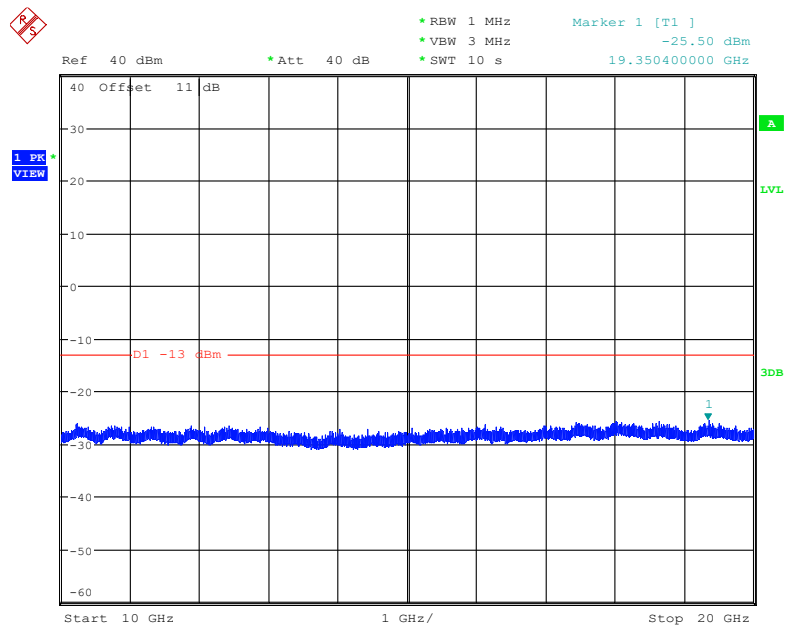
Date: 3.JAN.2023 10:13:50

10 GHz – 20 GHz (WCDMA Mode)

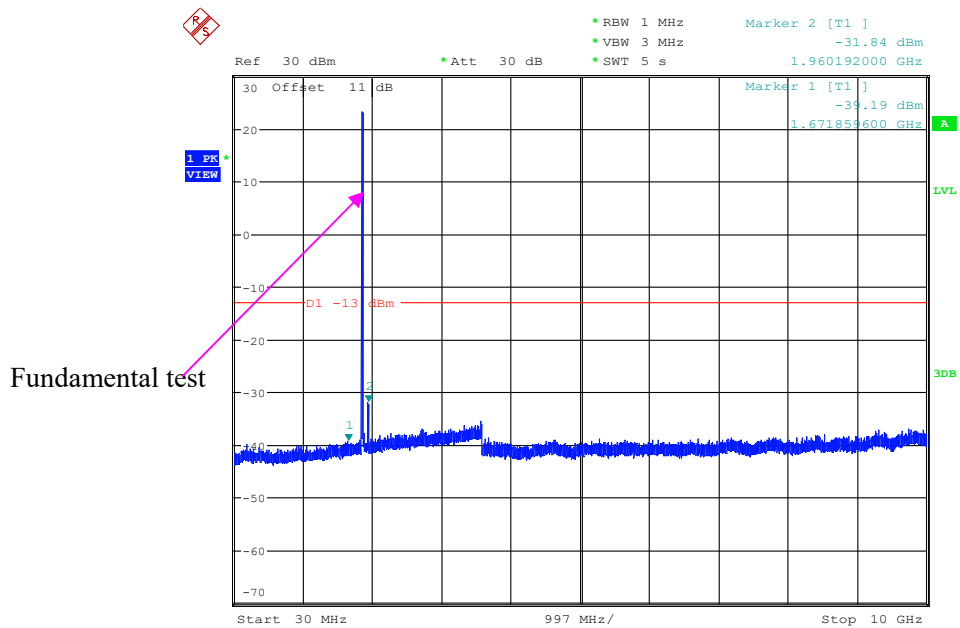
Date: 3.JAN.2023 10:14:32

Middle Channel:**30 MHz – 10 GHz (GSM Mode)**

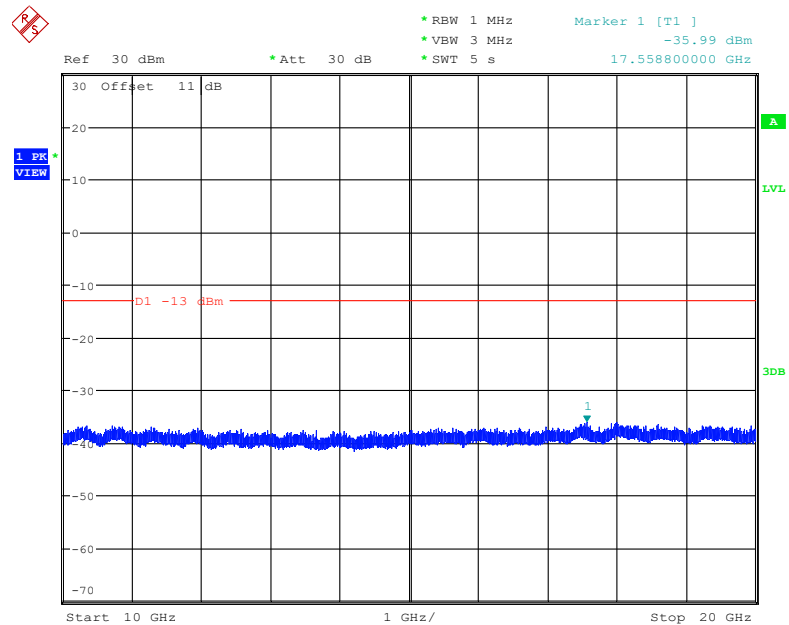
Date: 8.FEB.2023 13:33:40

10 GHz – 20 GHz (GSM Mode)

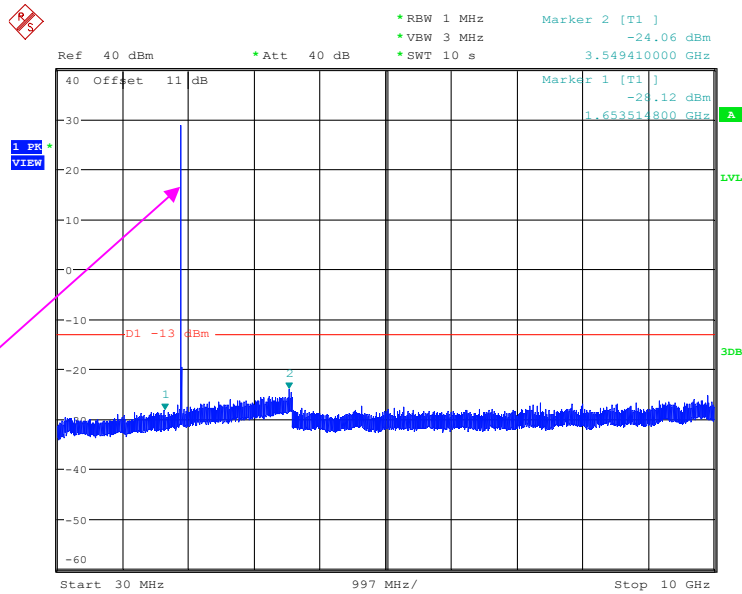
Date: 3.JAN.2023 09:35:04

30 MHz – 10 GHz (WCDMA Mode)

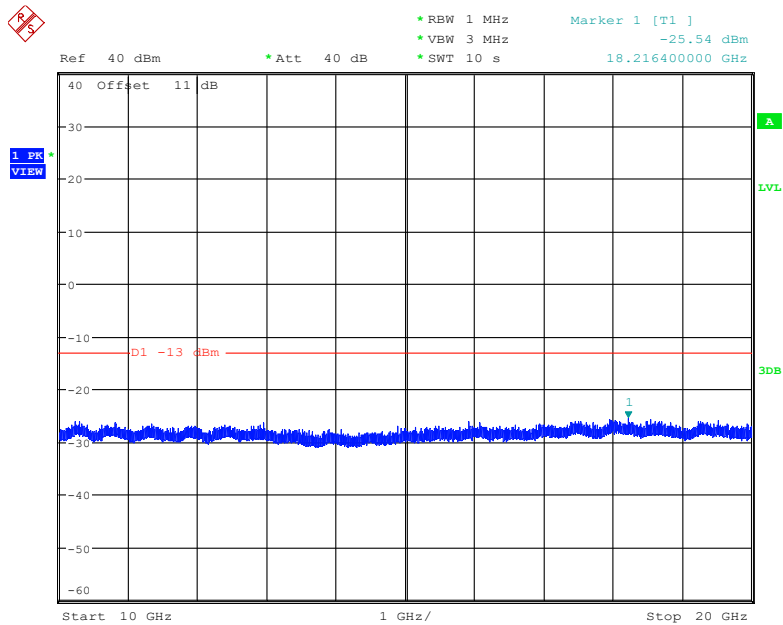
Date: 3.JAN.2023 10:17:30

10 GHz – 20 GHz (WCDMA Mode)

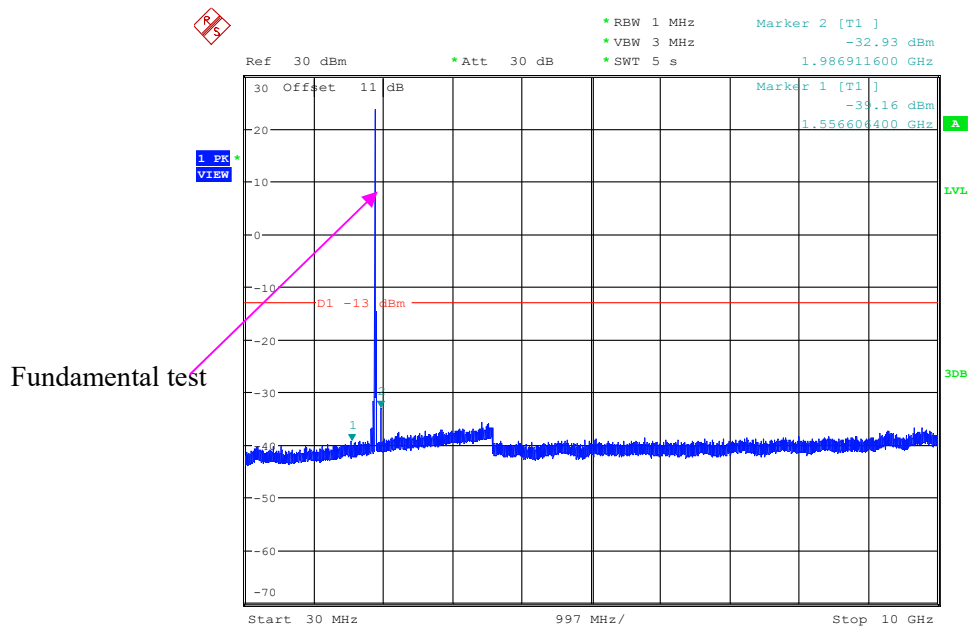
Date: 3.JAN.2023 10:18:11

High Channel:**30 MHz – 10 GHz (GSM Mode)**

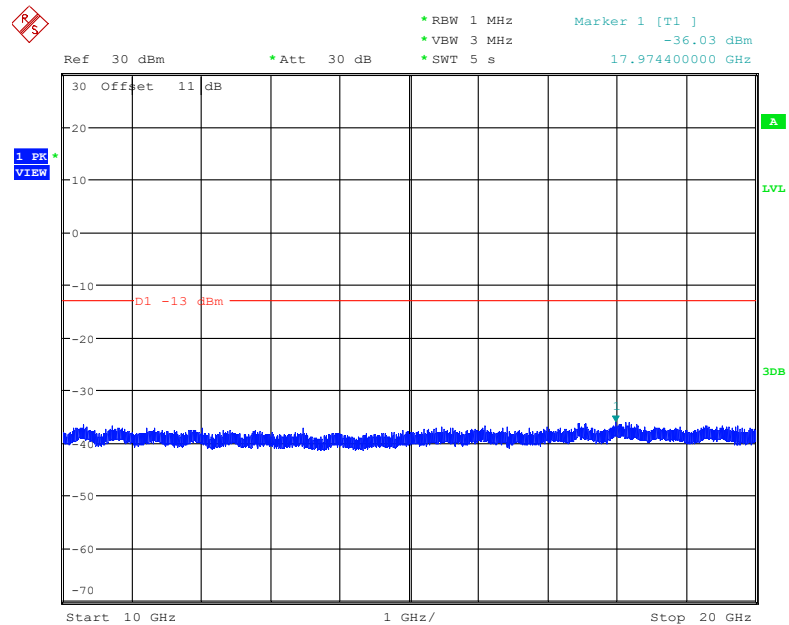
Date: 3.JAN.2023 09:40:16

10 GHz – 20 GHz (GSM Mode)

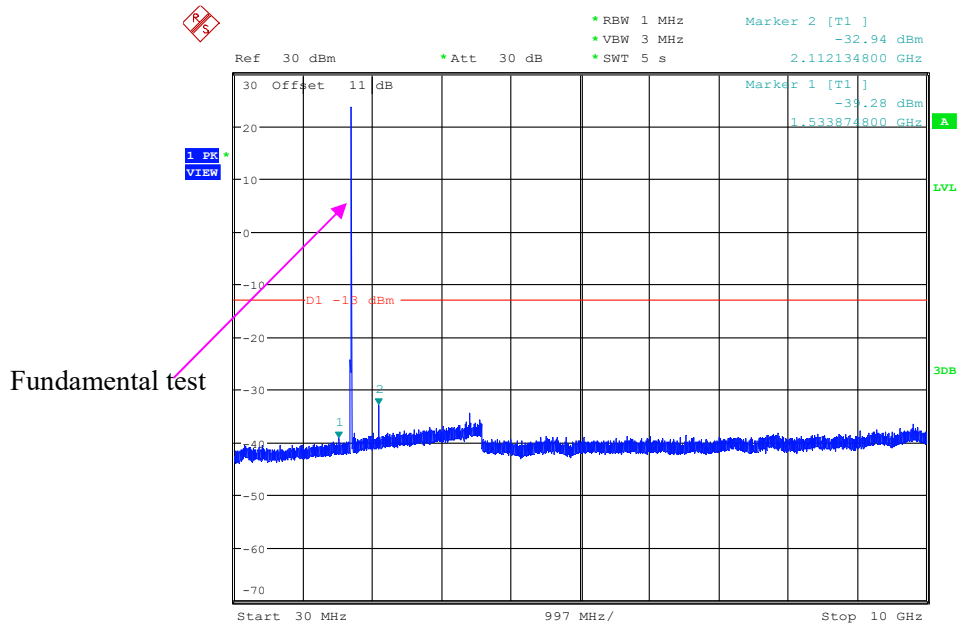
Date: 3.JAN.2023 09:41:29

30 MHz – 10 GHz (WCDMA Mode)

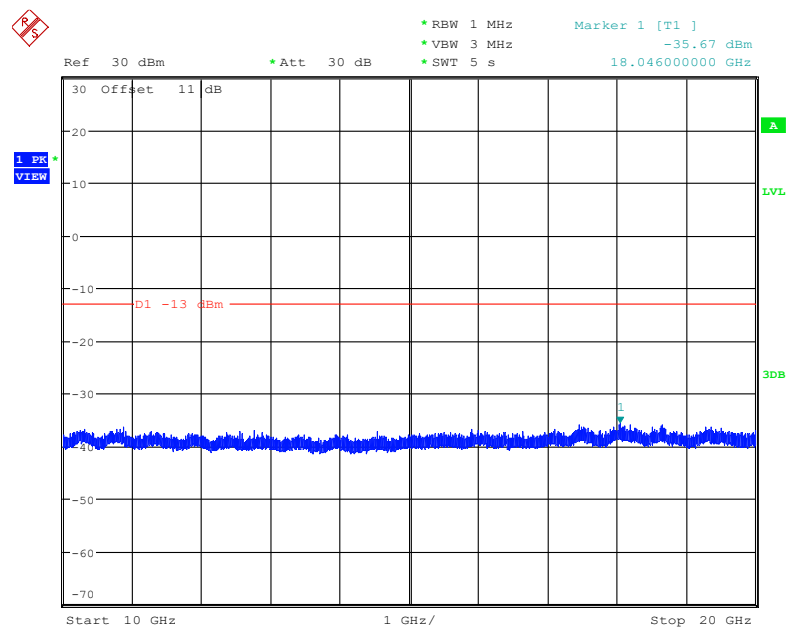
Date: 3.JAN.2023 10:22:19

10 GHz – 20 GHz (WCDMA Mode)

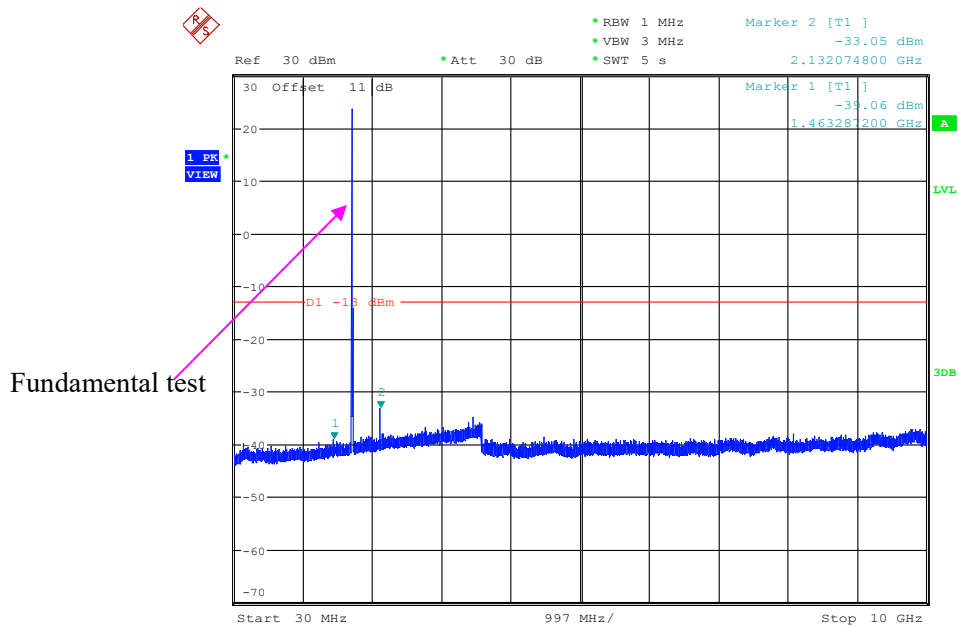
Date: 3.JAN.2023 10:23:01

**AWS BAND
Low Channel:****30 MHz – 10 GHz (WCDMA Mode)**

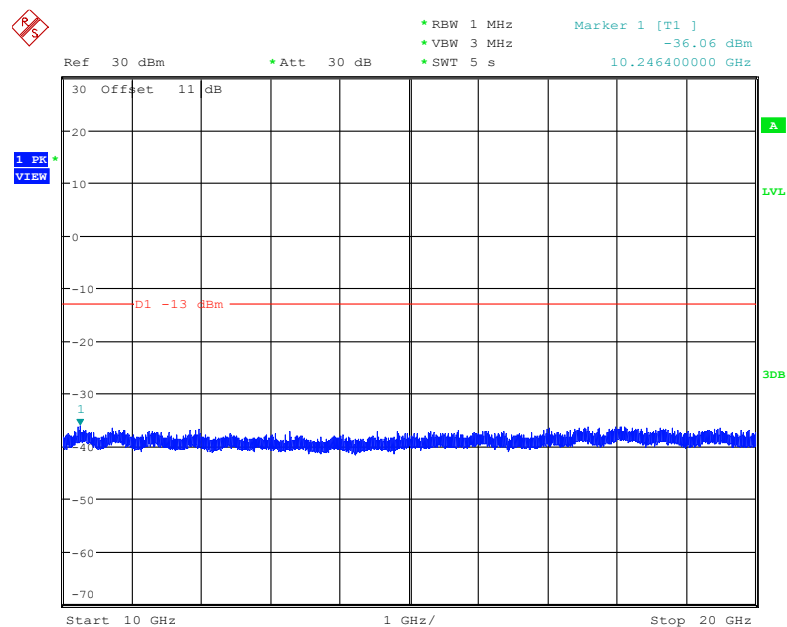
Date: 3.JAN.2023 10:28:02

10 GHz – 20 GHz (WCDMA Mode)

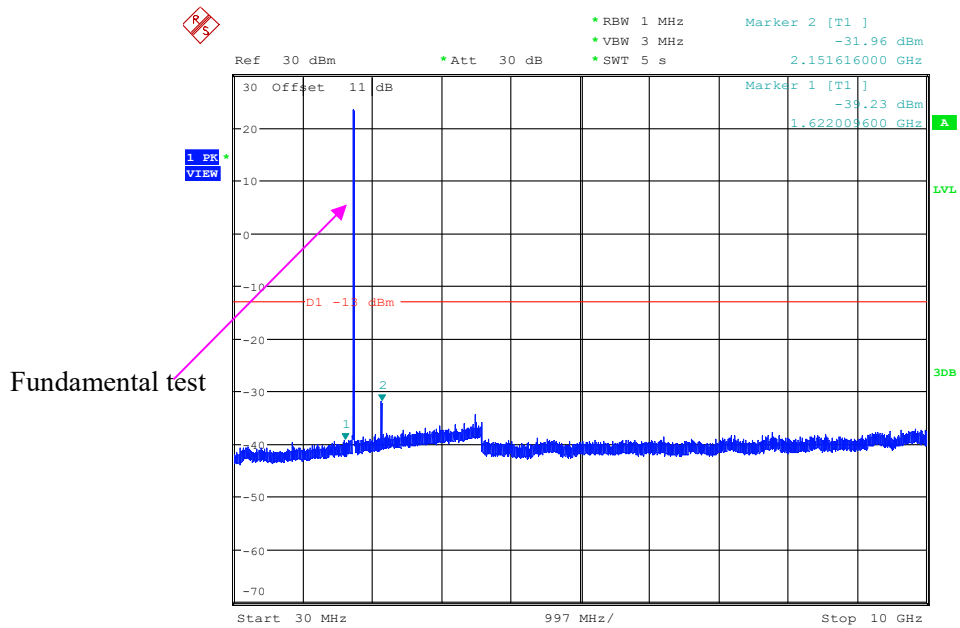
Date: 3.JAN.2023 10:28:44

Middle Channel:**30 MHz – 10 GHz (WCDMA Mode)**

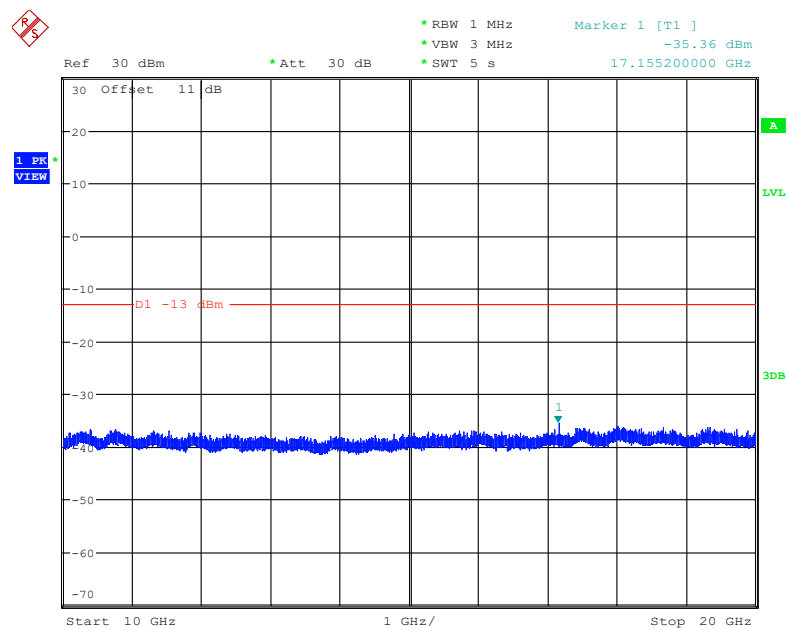
Date: 3.JAN.2023 10:31:24

10 GHz – 20 GHz (WCDMA Mode)

Date: 3.JAN.2023 10:32:05

High Channel:**30 MHz – 10 GHz (WCDMA Mode)**

Date: 3.JAN.2023 10:36:13

10 GHz – 20 GHz (WCDMA Mode)

Date: 3.JAN.2023 10:36:56

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

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:	22.6 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Jimi Zheng on 2023-01-05.

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

The worst case is as below:

30MHz-10GHz:**Cellular Band (Part 22H)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
GSM850, 824.2MHz								
952.53	-72.22	144	2.2	H	10.0	-62.22	-13	-49.22
952.53	-77.01	306	2.0	V	11.7	-65.31	-13	-52.31
1648.4	-48.80	45	1.6	H	3.5	-45.30	-13	-32.30
1648.4	-48.90	233	1.2	V	3.1	-45.80	-13	-32.80
2472.6	-43.30	82	1.7	H	6.6	-36.70	-13	-23.70
2472.6	-43.00	149	1.4	V	5.8	-37.20	-13	-24.20
3296.8	-50.10	177	2.3	H	6.4	-43.70	-13	-30.70
3296.8	-48.60	292	1.1	V	5.7	-42.90	-13	-29.90
GSM850, 836.6MHz								
954.38	-72.40	106	1.4	H	10.0	-62.40	-13	-49.40
954.38	-76.52	140	2.2	V	11.7	-64.82	-13	-51.82
1673.2	-47.90	70	1	H	3.8	-44.10	-13	-31.10
1673.2	-45.70	225	1.3	V	3.1	-42.60	-13	-29.60
2509.8	-43.70	100	1.8	H	6.2	-37.50	-13	-24.50
2509.8	-41.80	280	1	V	5.6	-36.20	-13	-23.20
3346.4	-48.80	33	1.1	H	6.6	-42.20	-13	-29.20
3346.4	-47.20	144	2.5	V	5.4	-41.80	-13	-28.80
GSM850, 848.8MHz								
956.34	-71.49	10	2.3	H	10.0	-61.49	-13	-48.49
956.34	-77.68	29	1.4	V	11.7	-65.98	-13	-52.98
1697.6	-47.70	137	1.5	H	4.1	-43.60	-13	-30.60
1697.6	-45.10	251	2.0	V	3.1	-42.00	-13	-29.00
2546.4	-44.10	219	1.1	H	6.1	-38.00	-13	-25.00
2546.4	-42.30	331	1.1	V	5.8	-36.50	-13	-23.50
3395.2	-48.80	324	1.3	H	6.2	-42.60	-13	-29.60
3395.2	-48.60	23	2.1	V	5.4	-43.20	-13	-30.20

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band5,826.4MHz								
953.32	-71.09	102	1.3	H	10.0	-61.09	-13	-48.09
953.32	-75.14	290	1.9	V	11.7	-63.44	-13	-50.44
1652.8	-56.40	233	1.4	H	3.5	-52.90	-13	-39.90
1652.8	-54.00	56	1.1	V	3.1	-50.90	-13	-37.90
2479.2	-50.20	232	1.7	H	6.6	-43.60	-13	-30.60
2479.2	-49.00	136	1.3	V	5.8	-43.20	-13	-30.20
3305.6	-48.90	183	1.9	H	6.4	-42.50	-13	-29.50
3305.6	-47.70	287	2.1	V	5.7	-42.00	-13	-29.00
WCDMA Band5,836.6MHz								
951.32	-70.62	197	1.8	H	10.0	-60.62	-13	-47.62
951.32	-75.25	172	1.2	V	11.7	-63.55	-13	-50.55
1673.2	-56.30	104	1.9	H	3.8	-52.50	-13	-39.50
1673.2	-53.90	117	1.1	V	3.1	-50.80	-13	-37.80
2509.8	-49.00	333	1.1	H	6.2	-42.80	-13	-29.80
2509.8	-48.50	322	2	V	5.6	-42.90	-13	-29.90
3346.4	-49.00	329	1	H	6.6	-42.40	-13	-29.40
3346.4	-56.30	104	1.9	H	5.4	-50.90	-13	-37.90
WCDMA Band5,846.6MHz								
954.75	-70.23	293	1.7	H	10.0	-60.23	-13	-47.23
954.75	-75.10	46	1.4	V	11.7	-63.40	-13	-50.40
1693.2	-57.10	114	2.5	H	4.1	-53.00	-13	-40.00
1693.2	-55.30	351	2.3	V	3.1	-52.20	-13	-39.20
2539.8	-50.20	156	1.2	H	6.1	-44.10	-13	-31.10
2539.8	-48.40	274	2.1	V	5.8	-42.60	-13	-29.60
3386.4	-49.90	200	1.1	H	6.2	-43.70	-13	-30.70
3386.4	-47.70	167	1.4	V	5.4	-42.30	-13	-29.30

30MHz-20GHz:**PCS Band (Part 24E)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substitute d Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
GSM 1900, 1850.2MHz								
950.41	-72.93	105	2.0	H	10.0	-62.93	-13	-49.93
950.41	-74.93	2	1.0	V	11.7	-63.23	-13	-50.23
3700.4	-46.60	256	2.4	H	8.1	-38.50	-13	-25.50
3700.4	-47.40	133	2.2	V	7.6	-39.80	-13	-26.80
GSM1900, 1880MHz								
956.38	-72.88	51	2.4	H	10.0	-62.88	-13	-49.88
956.38	-75.25	52	1.6	V	11.7	-63.55	-13	-50.55
3760	-49.10	80	1	H	8.8	-40.30	-13	-27.30
3760	-47.90	260	1.4	V	8	-39.90	-13	-26.90
GSM 1900, 1909.8MHz								
956.82	-70.74	212	2.2	H	10.0	-60.74	-13	-47.74
956.82	-77.46	119	1.7	V	11.7	-65.76	-13	-52.76
3819.6	-47.90	18	1	H	8.7	-39.20	-13	-26.20
3819.6	-46.50	104	2	V	7.9	-38.60	-13	-25.60
WCDMA Band2,1852.4MHz								
951.27	-72.73	78	1.4	H	10.0	-62.73	-13	-49.73
951.27	-77.41	55	1.8	V	11.7	-65.71	-13	-52.71
3704.8	-50.90	220	1.7	H	8.1	-42.80	-13	-29.80
3704.8	-49.20	320	1.2	V	7.6	-41.60	-13	-28.60
WCDMA Band2,1880MHz								
951.83	-72.58	330	1.9	H	10.0	-62.58	-13	-49.58
951.83	-74.94	208	1.0	V	11.7	-63.24	-13	-50.24
3760	-51.10	35	1.8	H	8.8	-42.30	-13	-29.30
3760	-49.40	41	2.2	V	8	-41.40	-13	-28.40
WCDMA Band2,1907.6MHz								
951.65	-70.83	1	1.4	H	10.0	-60.83	-13	-47.83
951.65	-77.09	155	1.2	V	11.7	-65.39	-13	-52.39
3815.2	-51.70	73	1.2	H	8.7	-43.00	-13	-30.00
3815.2	-49.80	314	2	V	7.9	-41.90	-13	-28.90

AWS Band (Part 27)

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band4, 1712.4MHz								
956.77	-72.12	174	1.4	H	10.0	-62.12	-13	-49.12
956.77	-75.63	153	2.4	V	11.7	-63.93	-13	-50.93
3424.8	-48.80	98	2.3	H	6.4	-42.40	-13	-29.40
3424.8	-48.00	88	1.5	V	5.7	-42.30	-13	-29.30
WCDMA Band4, 1732.6MHz								
953.27	-72.04	278	2.5	H	10.0	-62.04	-13	-49.04
953.27	-77.30	279	1.7	V	11.7	-65.60	-13	-52.60
3465.2	-48	310	1.9	H	7	-41.00	-13	-28.00
3465.2	-49	179	1.1	V	6.2	-42.80	-13	-29.80
WCDMA Band4, 1752.6MHz								
955.97	-71.84	236	1.2	H	10.0	-61.84	-13	-48.84
955.97	-76.97	32	1.9	V	11.7	-65.27	-13	-52.27
3505.2	-48.90	47	1.8	H	7.8	-41.10	-13	-28.10
3505.2	-49.10	209	1.8	V	6.5	-42.60	-13	-29.60

LTE Band: (Pre-scan all bandwidth/modulation, the worst case as below)

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 2								
Test frequency range: 30MHz-20GHz								
1.4MHz bandwidth, QPSK, Low channel								
954.61	-72.57	359	1.6	H	10.0	-62.57	-13	-49.57
954.61	-75.12	79	2.4	V	11.7	-63.42	-13	-50.42
3701.4	-51.50	113	1.9	H	8.1	-43.40	-13	-30.40
3701.4	-49.00	359	1.9	V	7.6	-41.40	-13	-28.40
1.4MHz bandwidth, QPSK, Middle channel								
951.65	-72.62	186	2.2	H	10.0	-62.62	-13	-49.62
951.65	-77.53	283	2.4	V	11.7	-65.83	-13	-52.83
3760	-52.30	346	1.6	H	8.8	-43.50	-13	-30.50
3760	-50.00	250	2.1	V	8	-42.00	-13	-29.00
1.4MHz bandwidth, QPSK, High channel								
951.71	-71.32	63	2.5	H	10.0	-61.32	-13	-48.32
951.71	-75.37	197	2.0	V	11.7	-63.67	-13	-50.67
3818.6	-50.60	267	1.2	H	8.7	-41.90	-13	-28.90
3818.6	-50.90	74	2.2	V	7.9	-43.00	-13	-30.00

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 4								
Test frequency range: 30MHz-20GHz								
1.4MHz bandwidth, QPSK, Low channel								
956.55	-72.34	97	1.5	H	10.0	-62.34	-13	-49.34
956.55	-74.78	133	1.9	V	11.7	-63.08	-13	-50.08
3421.4	-48.90	110	1	H	6.4	-42.50	-13	-29.50
3421.4	-46.80	223	2.5	V	5.8	-41.00	-13	-28.00
1.4MHz bandwidth, QPSK, Middle channel								
956.16	-71.86	2	1.4	H	10.0	-61.86	-13	-48.86
956.16	-75.55	18	2.1	V	11.7	-63.85	-13	-50.85
3465	-48.5	198	1.5	H	7	-41.50	-13	-28.50
3465	-48.4	18	1.1	V	6.2	-42.20	-13	-29.20
1.4MHz bandwidth, QPSK, High channel								
955.65	-71.63	189	2.4	H	10.0	-61.63	-13	-48.63
955.65	-77.41	79	1.1	V	11.7	-65.71	-13	-52.71
3508.6	-50.20	221	2.5	H	7.8	-42.40	-13	-29.40
3508.6	-49.70	281	1.6	V	6.5	-43.20	-13	-30.20

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 5								
Test frequency range: 30MHz-10GHz								
1.4MHz bandwidth, QPSK, Low channel								
955.58	-72.28	311	1.4	H	10.0	-62.28	-13	-49.28
955.58	-74.78	202	1.7	V	11.7	-63.08	-13	-50.08
1649.4	-55.70	280	2.1	H	3.5	-52.20	-13	-39.20
1649.4	-55.30	319	2.2	V	3.1	-52.20	-13	-39.20
2474.1	-47.50	329	1.2	H	6.6	-40.90	-13	-27.90
2474.1	-43.50	254	1.6	V	5.8	-37.70	-13	-24.70
3298.8	-49.80	34	2	H	6.4	-43.40	-13	-30.40
3298.8	-48.20	328	1.3	V	5.7	-42.50	-13	-29.50
1.4MHz bandwidth, QPSK, Middle channel								
952.57	-72.16	117	2.1	H	10.0	-62.16	-13	-49.16
952.57	-75.17	319	2.5	V	11.7	-63.47	-13	-50.47
1673.0	-55.80	222	1.6	H	3.8	-52.00	-13	-39.00
1673.0	-54.00	223	1.5	V	3.1	-50.90	-13	-37.90
2509.5	-45.80	61	1.4	H	6.2	-39.60	-13	-26.60
2509.5	-40.90	349	2	V	5.6	-35.30	-13	-22.30
3346.0	-50.30	215	1.8	H	6.6	-43.70	-13	-30.70
3346.0	-48.60	290	1.9	V	5.4	-43.20	-13	-30.20
1.4MHz bandwidth, QPSK, High channel								
955.28	-71.66	324	1.2	H	10.0	-61.66	-13	-48.66
955.28	-74.93	40	2.0	V	11.7	-63.23	-13	-50.23
1696.6	-54.90	70	1.9	H	4.1	-50.80	-13	-37.80
1696.6	-53.40	203	2.4	V	3.1	-50.30	-13	-37.30
2544.9	-43.70	270	1.2	H	6.1	-37.60	-13	-24.60
2544.9	-43.50	74	1.6	V	5.8	-37.70	-13	-24.70
3393.2	-48.60	263	2.4	H	6.2	-42.40	-13	-29.40
3393.2	-47.50	25	2.2	V	5.4	-42.10	-13	-29.10

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 7								
Test frequency range: 30MHz-26.5GHz								
5MHz bandwidth, QPSK, Low channel								
954.36	-71.35	83	2.5	H	10.0	-61.35	-25	-36.35
954.36	-76.35	113	1.1	V	11.7	-64.65	-25	-39.65
5005	-49.90	237	1.1	H	10.8	-39.10	-25	-14.10
5005	-49.10	239	1.2	V	10.2	-38.90	-25	-13.90
5MHz bandwidth, QPSK, Middle channel								
951.12	-72.69	153	1.6	H	10.0	-62.69	-25	-37.69
951.12	-77.68	6	1.7	V	11.7	-65.98	-25	-40.98
5070	-50.40	248	1.4	H	11.1	-39.30	-25	-14.30
5070	-51.40	21	2.5	V	10.8	-40.60	-25	-15.60
5MHz bandwidth, QPSK, High channel								
956.81	-71.50	270	2.1	H	10.0	-61.50	-25	-36.50
956.81	-77.39	282	1.3	V	11.7	-65.69	-25	-40.69
5135	-50.20	140	1.5	H	11.3	-38.90	-25	-13.90
5135	-50.00	295	1.7	V	10.8	-39.20	-25	-14.20

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 12								
Test frequency range: 30MHz-10GHz								
1.4MHz bandwidth, QPSK, Low channel								
953.39	-59.22	120	2.4	H	10.0	-49.22	-13	-36.22
953.39	-63.74	91	2.1	V	11.7	-52.04	-13	-39.04
1399.4	-59.6	323	1.8	H	6.3	-53.30	-13	-40.30
1399.4	-60.4	50	1.6	V	5.7	-54.70	-13	-41.70
2099.1	-48.9	168	1.3	H	4.9	-44.00	-13	-31.00
2099.1	-47.8	5	2	V	3.9	-43.90	-13	-30.90
2798.8	-53.6	326	2.2	H	6.6	-47.00	-13	-34.00
2798.8	-53.4	288	2.2	V	6	-47.40	-13	-34.40
1.4MHz bandwidth, QPSK, Middle channel								
954.38	-59.85	255	1.4	H	9.8	-50.05	-13	-37.05
954.38	-65.48	190	2.5	V	11.7	-53.78	-13	-40.78
1415	-59.2	348	1.8	H	5.9	-53.30	-13	-40.30
1415	-60.9	263	1.6	V	5.9	-55.00	-13	-42.00
2122.5	-49.8	83	1.6	H	6.3	-43.50	-13	-30.50
2122.5	-49.8	32	1.9	V	5.1	-44.70	-13	-31.70
2830	-54.1	147	2.2	H	6.7	-47.40	-13	-34.40
2830	-54.1	5	2.1	V	6.7	-47.40	-13	-34.40
1.4MHz bandwidth, QPSK, High channel								
955.44	-58.14	259	2.0	H	10.0	-48.14	-13	-35.14
955.44	-62.94	80	1.3	V	11.7	-51.24	-13	-38.24
1430.6	-60.3	13	1.1	H	5.9	-54.40	-13	-41.40
1430.6	-60.9	38	1.7	V	5.9	-55.00	-13	-42.00
2145.9	-49.4	21	2.1	H	6.3	-43.10	-13	-30.10
2145.9	-48.8	90	1.4	V	5.1	-43.70	-13	-30.70
2861.2	-55.1	231	1.2	H	6.7	-48.40	-13	-35.40
2861.2	-54	99	2.2	V	6.7	-47.30	-13	-34.30

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 17								
Test frequency range: 30MHz-10GHz								
5MHz bandwidth, QPSK, Low channel								
956.87	-70.67	178	2.0	H	10.0	-60.67	-13	-47.67
956.87	-75.26	112	1.3	V	11.7	-63.56	-13	-50.56
1413	-52.57	245	2.3	H	-0.53	-53.10	-13	-40.10
1413	-53.76	83	1.2	V	-0.74	-54.50	-13	-41.50
2119.5	-42.71	233	2.3	H	-0.89	-43.60	-13	-30.60
2119.5	-43.48	151	1.4	V	-1.12	-44.60	-13	-31.60
2826	-51.74	97	1.1	H	2.24	-49.50	-13	-36.50
2826	-51.43	226	2.2	V	2.33	-49.10	-13	-36.10
5MHz bandwidth, QPSK, Middle channel								
951.81	-70.24	132	1.1	H	10.0	-60.24	-13	-47.24
951.81	-75.85	202	1.3	V	11.7	-64.15	-13	-51.15
1420	-54.47	34	2.2	H	-0.53	-55.00	-13	-42.00
1420	-53.36	61	1.1	V	-0.74	-54.10	-13	-41.10
2130	-42.01	331	1.2	H	-0.89	-42.90	-13	-29.90
2130	-43.18	131	1.6	V	-1.12	-44.30	-13	-31.30
2840	-51.94	177	2.4	H	2.24	-49.70	-13	-36.70
2840	-51.03	267	1.6	V	2.33	-48.70	-13	-35.70
5MHz bandwidth, QPSK, High channel								
954.86	-70.42	35	1.7	H	10.0	-60.42	-13	-47.42
954.86	-76.15	105	1.9	V	11.7	-64.45	-13	-51.45
1427	-53.47	238	1.6	H	-0.53	-54.00	-13	-41.00
1427	-54.36	148	2.5	V	-0.74	-55.10	-13	-42.10
2140.5	-43.11	263	1.8	H	-0.89	-44.00	-13	-31.00
2140.5	-43.78	183	1.9	V	-1.12	-44.90	-13	-31.90
2854	-51.54	287	2.4	H	2.24	-49.30	-13	-36.30
2854	-52.13	34	1.4	V	2.33	-49.80	-13	-36.80

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 38								
Test frequency range: 30MHz-26.5GHz								
5MHz bandwidth, QPSK, Low channel								
956.53	-72.79	102	1.3	H	10.0	-62.79	-25	-37.79
956.53	-76.55	142	1.3	V	11.7	-64.85	-25	-39.85
5145	-48.80	50	2.3	H	11.4	-37.40	-25	-12.40
5145	-47.40	78	1.3	V	10.7	-36.70	-25	-11.70
5MHz bandwidth, QPSK, Middle channel								
951.23	-84.74	28	2.3	H	10.0	-74.74	-25	-49.74
951.23	-87.93	47	1.3	V	11.7	-76.23	-25	-51.23
5190	-48.2	326	1.9	H	10.5	-37.70	-25	-12.70
5190	-47.2	189	1.9	V	10	-37.20	-25	-12.20
5MHz bandwidth, QPSK, High channel								
950.41	-72.80	218	2.2	H	10.0	-62.80	-25	-37.80
950.41	-75.36	48	2.4	V	11.7	-63.66	-25	-38.66
5235	-46.30	159	1.6	H	9.7	-36.60	-25	-11.60
5235	-46.40	339	1.1	V	9.2	-37.20	-25	-12.20

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 41								
Test frequency range: 30MHz-26.5GHz								
5MHz bandwidth, QPSK, Low channel								
956.33	-72.87	42	2.1	H	10.0	-62.87	-25	-37.87
956.33	-75.30	307	1.6	V	11.7	-63.60	-25	-38.60
5075	-45.80	104	1.2	H	11.2	-34.60	-25	-9.60
5075	-46.30	208	1.1	V	10.8	-35.50	-25	-10.50
5MHz bandwidth, QPSK, Middle channel								
950.08	-72.37	283	2.3	H	10.0	-62.37	-25	-37.37
950.08	-77.55	273	1.3	V	11.7	-65.85	-25	-40.85
5190	-45.5	289	1.6	H	10.5	-35.00	-25	-10.00
5190	-45.7	156	1.5	V	10	-35.70	-25	-10.70
5MHz bandwidth, QPSK, High channel								
956.56	-71.62	318	1.2	H	10.0	-61.62	-25	-36.62
956.56	-75.37	117	2.4	V	11.7	-63.67	-25	-38.67
5305	-45.20	348	2.5	H	9.6	-35.60	-25	-10.60
5305	-44.50	284	1.5	V	8.8	-35.70	-25	-10.70

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 66								
Test frequency range: 30MHz-20GHz								
1.4MHz bandwidth, QPSK, Low channel								
956.50	-71.60	39	1.3	H	10.0	-61.60	-13	-48.60
956.50	-76.88	180	2.2	V	11.7	-65.18	-13	-52.18
3421.4	-46.1	15	2	H	6.4	-39.70	-13	-26.70
3421.4	-44.3	141	2.3	V	5.7	-38.60	-13	-25.60
1.4MHz bandwidth, QPSK, Middle channel								
955.36	-72.66	214	1.3	H	10.0	-62.66	-13	-49.66
955.36	-77.23	121	2.3	V	11.7	-65.53	-13	-52.53
3490	-47	287	1.2	H	7.6	-39.40	-13	-26.40
3490	-46.9	18	2	V	6.4	-40.50	-13	-27.50
1.4MHz bandwidth, QPSK, High channel								
950.97	-70.16	333	2.2	H	10.0	-60.16	-13	-47.16
950.97	-76.78	299	1.6	V	11.7	-65.08	-13	-52.08
3598.6	-48.6	45	1.9	H	7.8	-40.80	-13	-27.80
3598.6	-47.2	192	1.7	V	7	-40.20	-13	-27.20

Note:

Absolute Level = Reading Level + Substituted Factor

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

Margin = Absolute Level - Limit

FCC§ 22.917 (a);§ 24.238 (a); §27.53 (g) (h)(m)- 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.

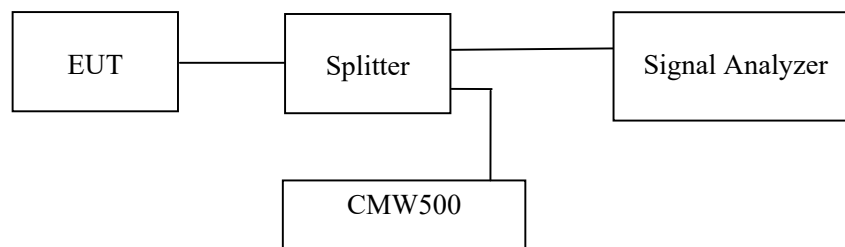
According to FCC §27.53 (g)(h), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC §27.53 (m), 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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.

Test Procedure

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



Note: the worst path loss (cable loss and splitter inset loss) among the test frequency range has included in plot.

Test Data**Environmental Conditions**

Temperature:	24.8~27.2℃
Relative Humidity:	52.1~56.8 %
ATM Pressure:	101.0 kPa

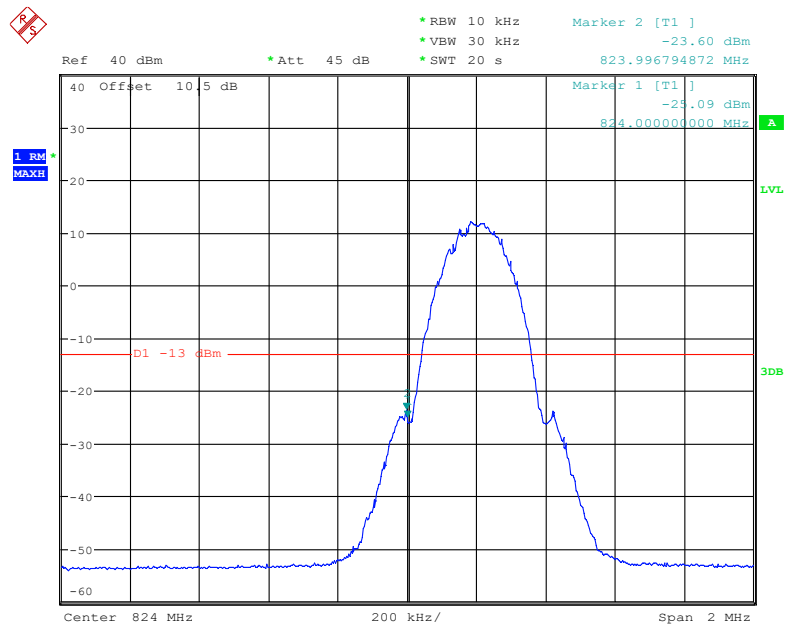
The testing was performed by Glenn Jiang from 2023-01-03 to 2023-02-14.

EUT operation mode: Transmitting (Worst case)

Test Result: Pass

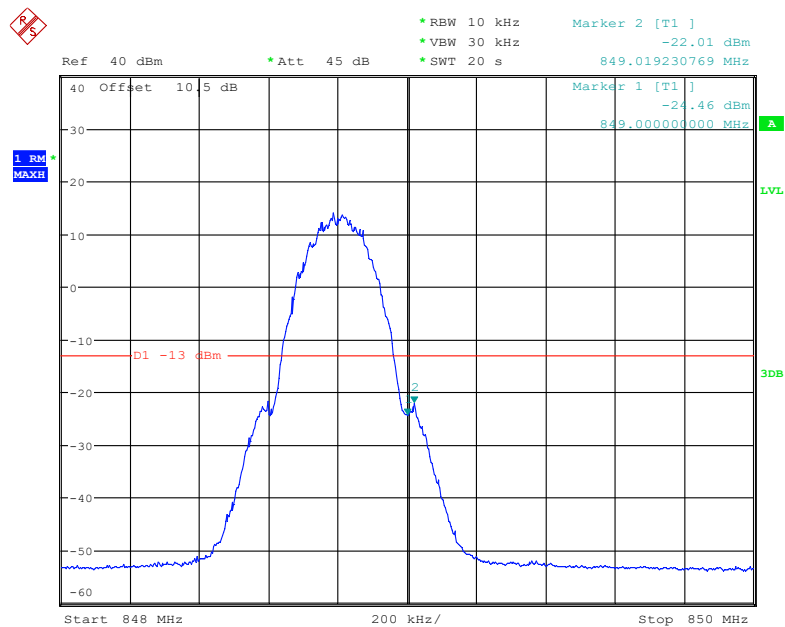
Please refer to the following plots.

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



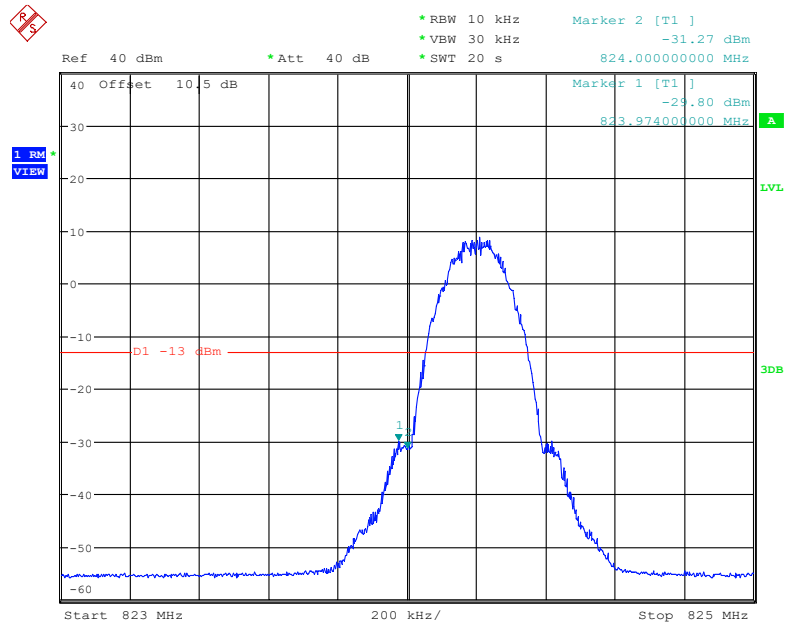
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Cellular Band, Right Band Edge for GSM (GMSK) Mode



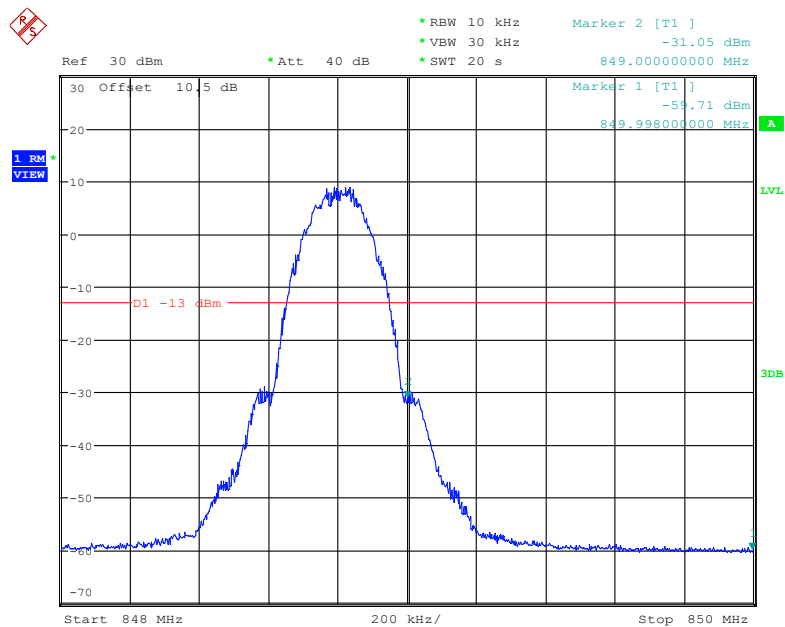
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Cellular Band, Left Band Edge for EGPRS (8PSK) Mode

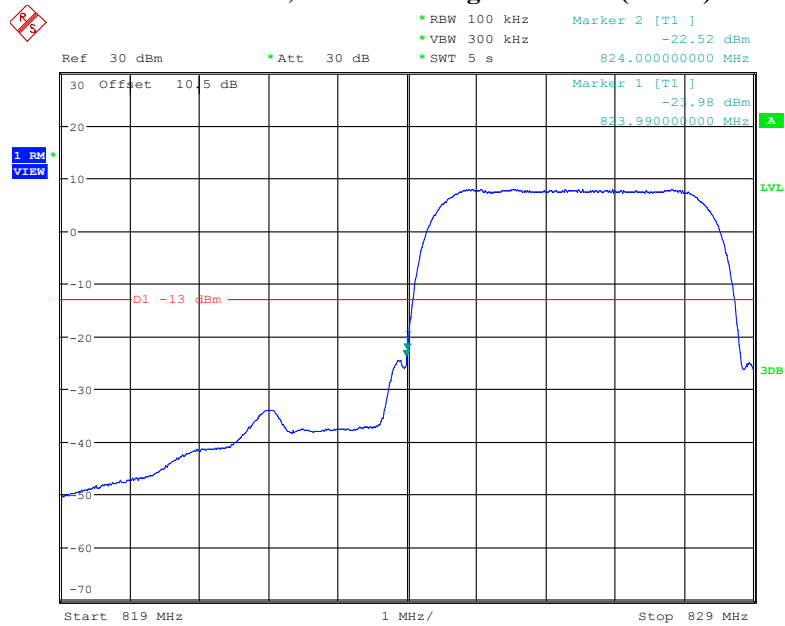


Date: 3.JAN.2023 09:11:39

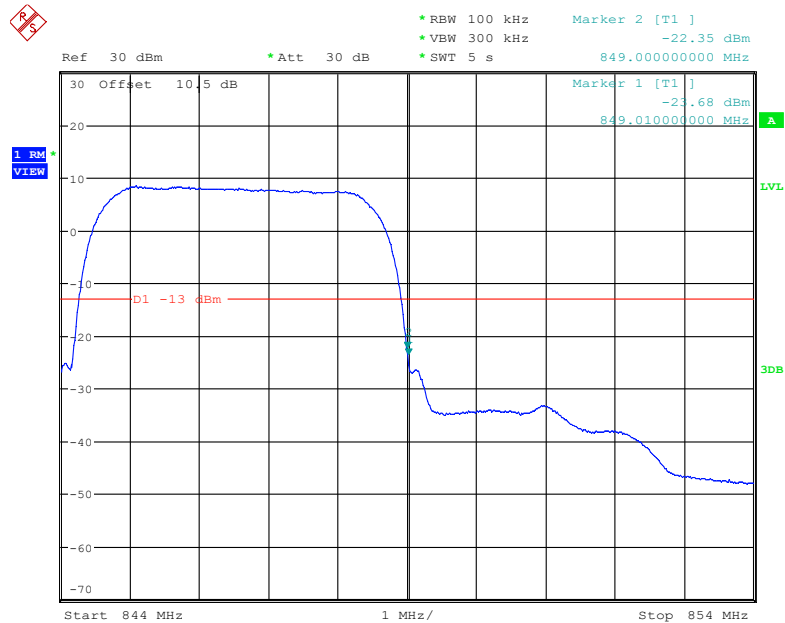
Cellular Band, Right Band Edge for EGPRS (8PSK) Mode



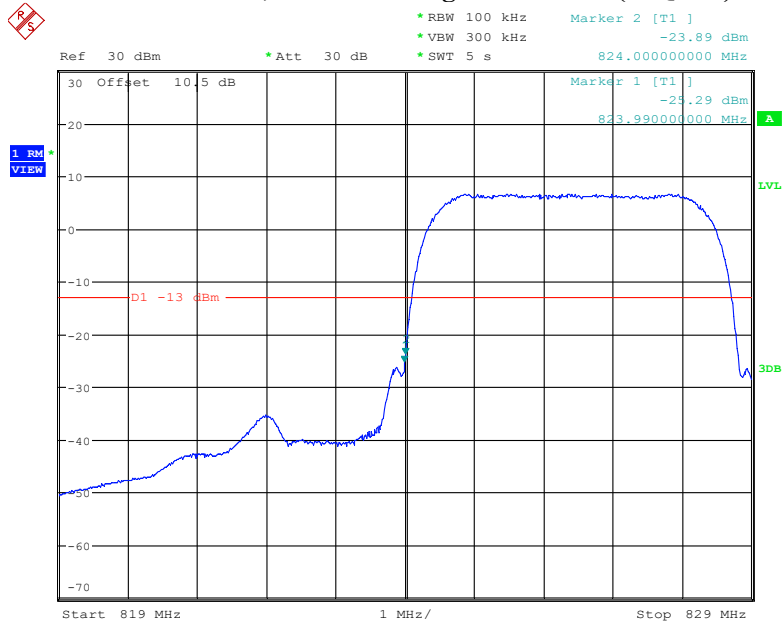
Date: 3.JAN.2023 09:20:25

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

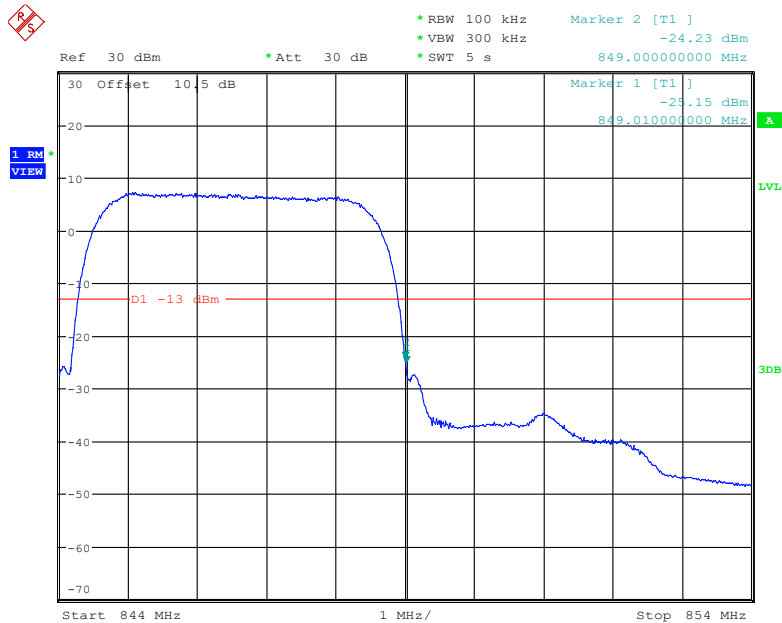
Date: 3.JAN.2023 10:41:24

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

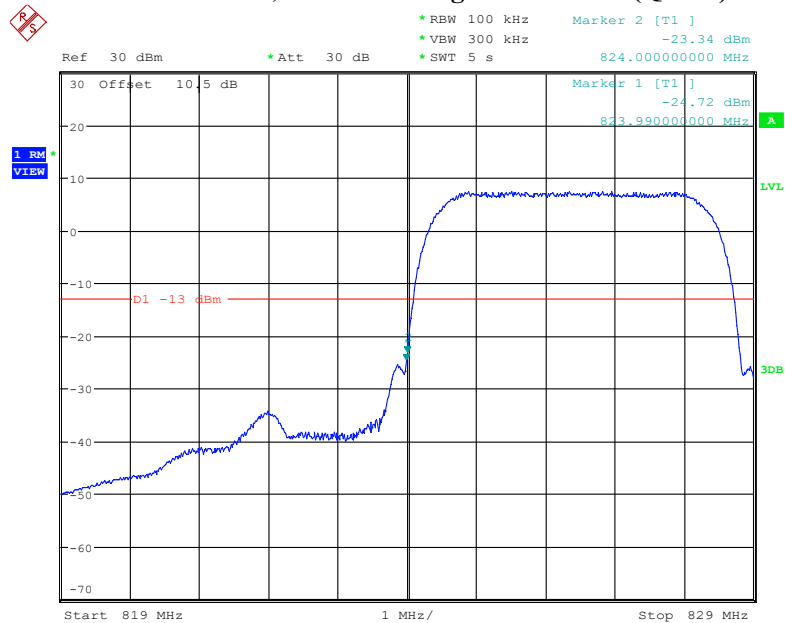
Date: 3.JAN.2023 10:47:53

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

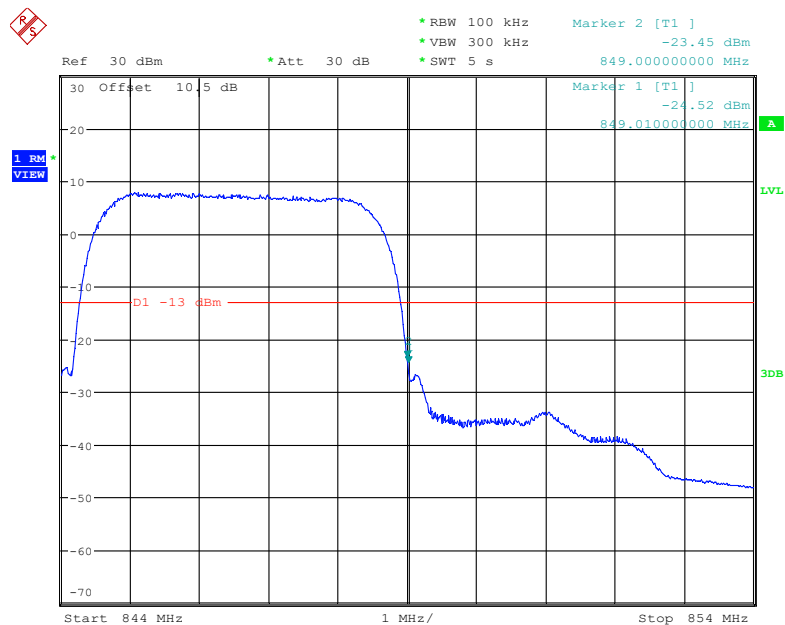
Date: 3.JAN.2023 10:53:40

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

Date: 3.JAN.2023 11:00:14

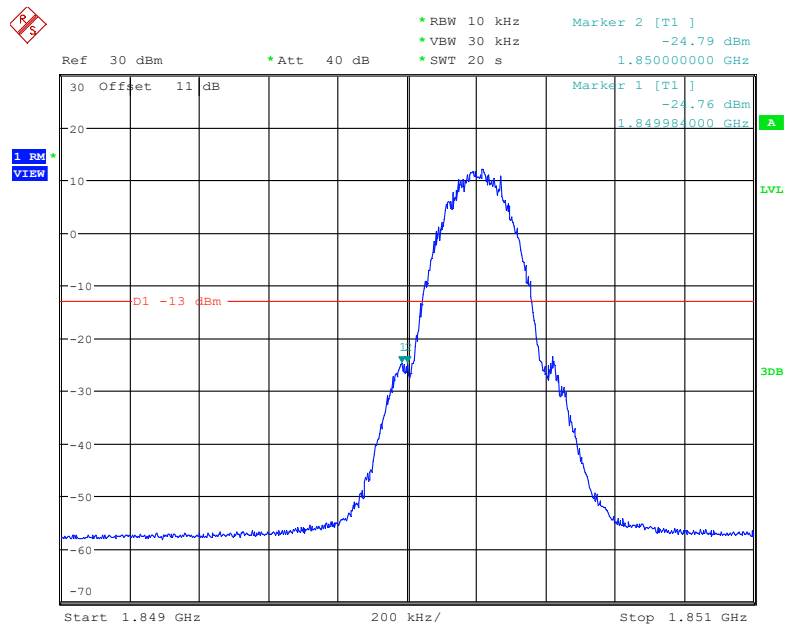
Cellular Band, Left Band Edge for HSUPA (QPSK) Mode

Date: 3.JAN.2023 11:31:49

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

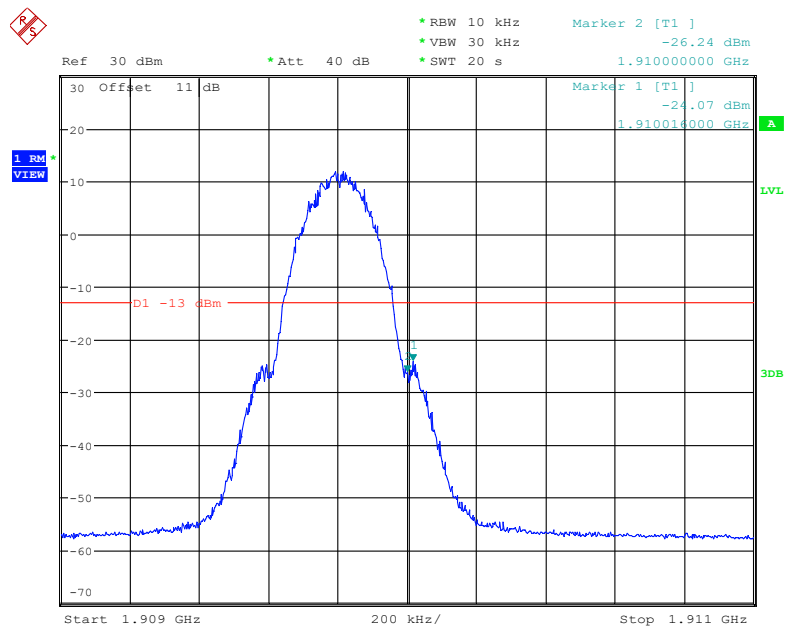
Date: 3.JAN.2023 11:38:52

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

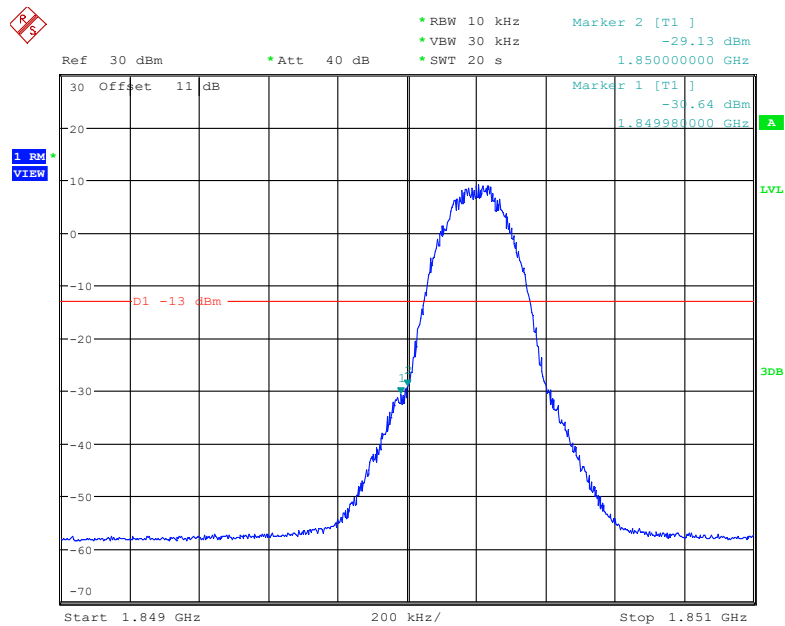


Date: 3.JAN.2023 09:26:40

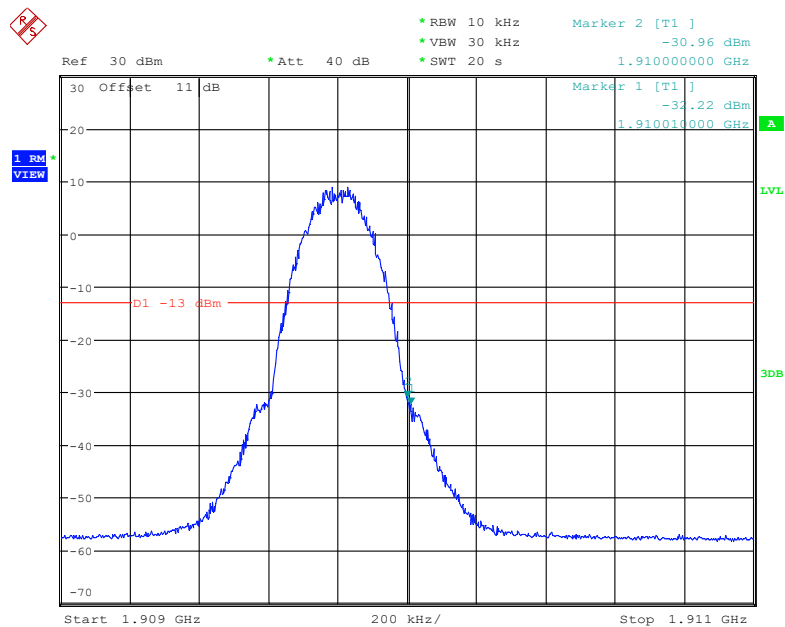
PCS Band, Right Band Edge for GSM (GMSK) Mode



Date: 3.JAN.2023 09:39:27

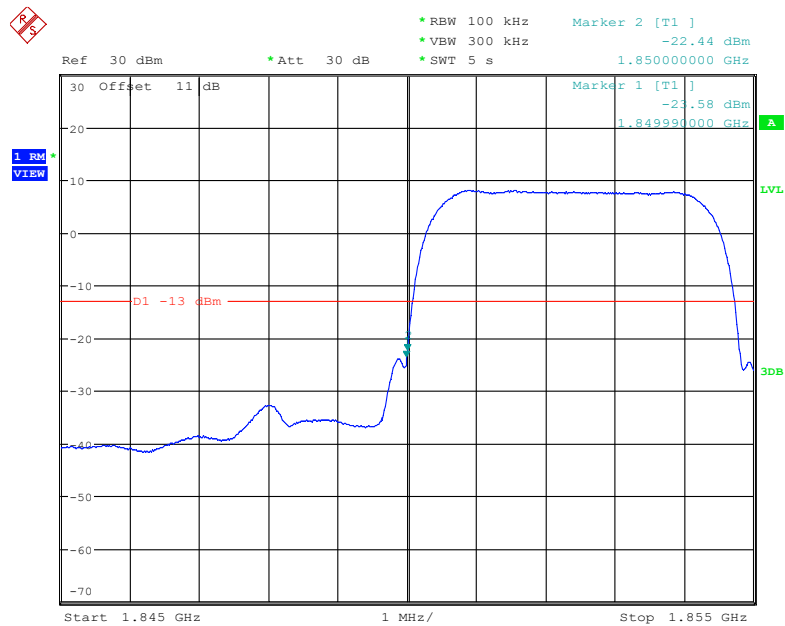
PCS Band, Left Band Edge for EGPRS (8PSK) Mode

Date: 3.JAN.2023 09:48:58

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

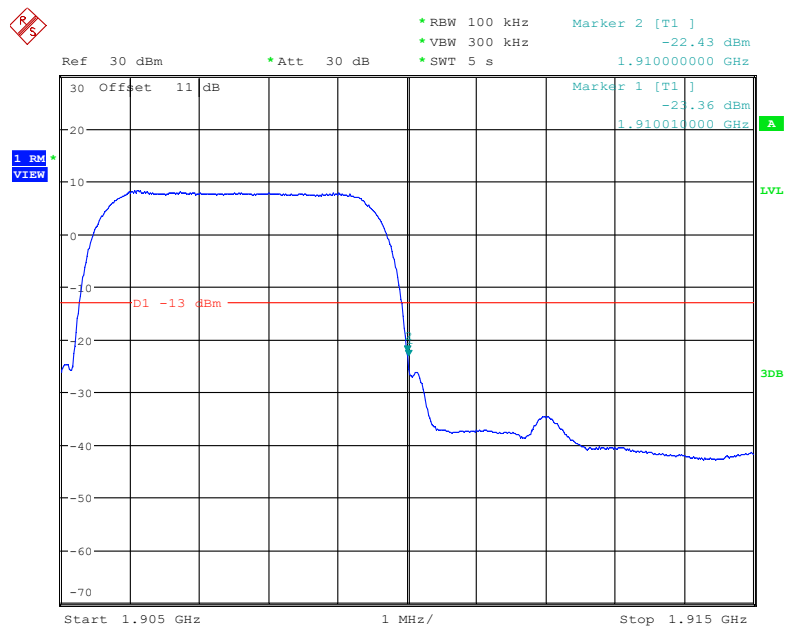
Date: 3.JAN.2023 10:06:09

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

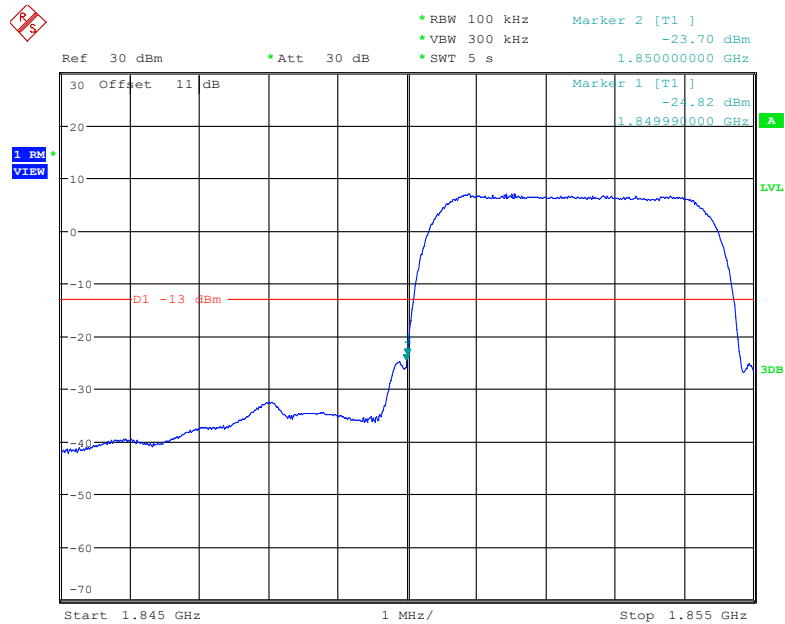


Date: 3.JAN.2023 10:13:09

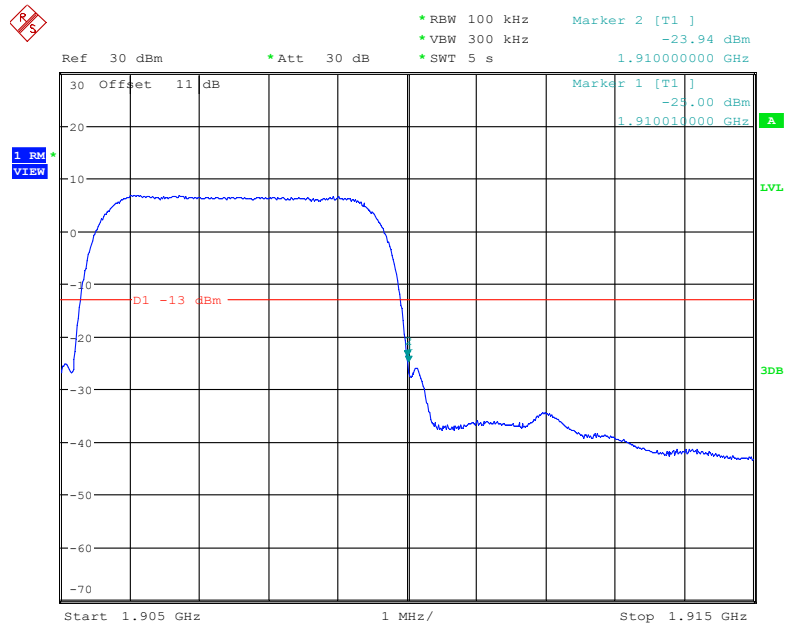
PCS Band, Right Band Edge for RMC (BPSK) Mode



Date: 3.JAN.2023 10:21:38

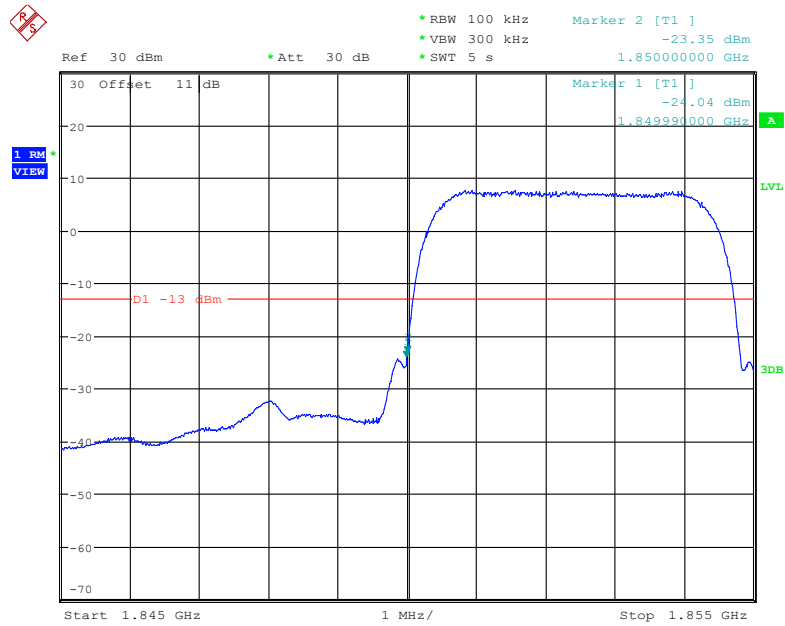
PCS Band, Left Band Edge for HSDPA(16QAM) Mode

Date: 3.JAN.2023 11:58:10

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

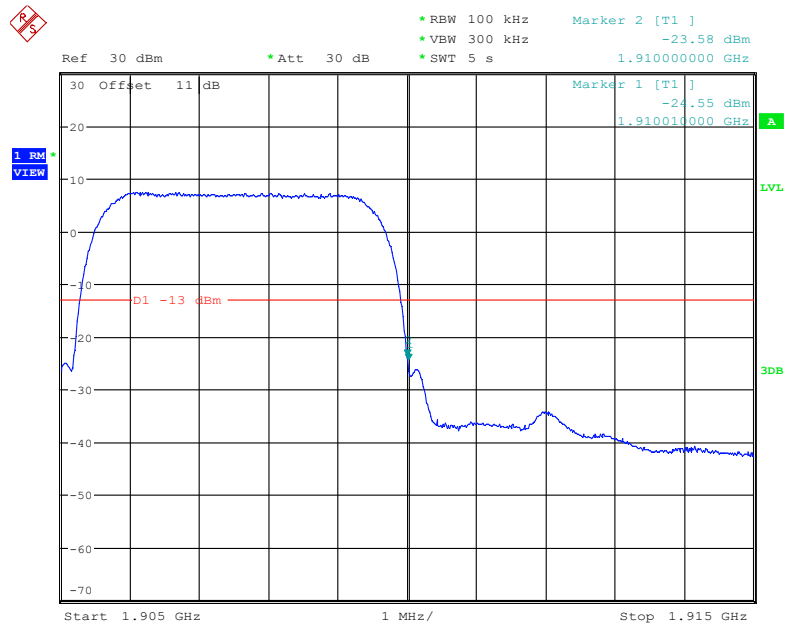
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PCS Band, Left Band Edge for HSUPA (QPSK) Mode



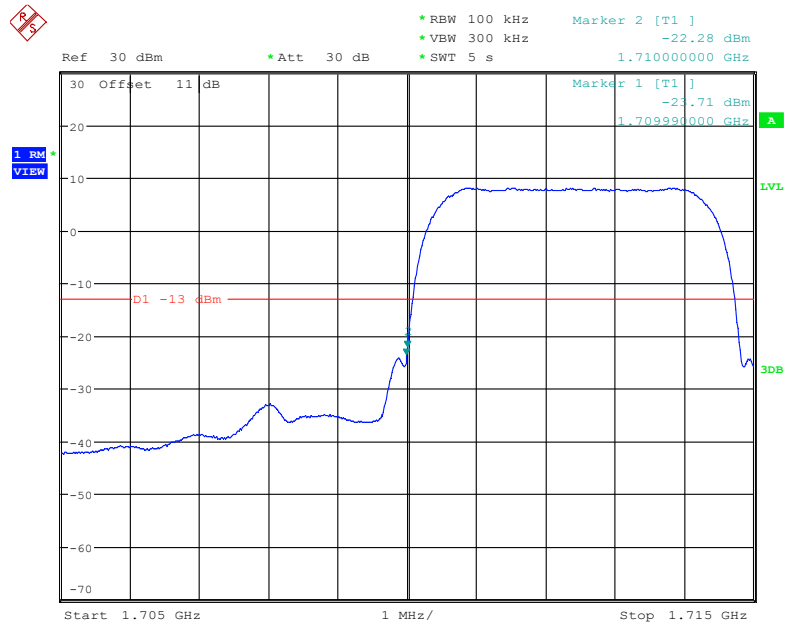
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PCS Band, Right Band Edge for HSUPA (QPSK) Mode



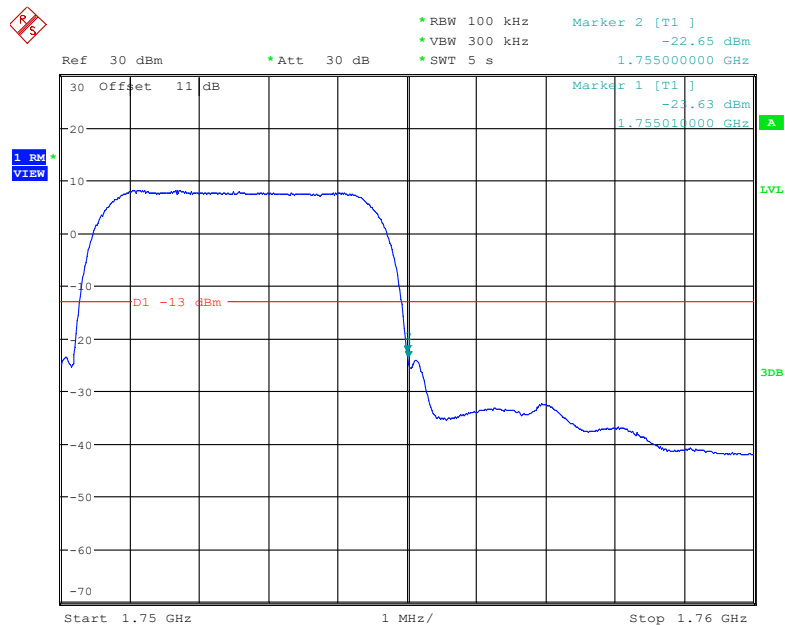
Date: 3.JAN.2023 11:52:09

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



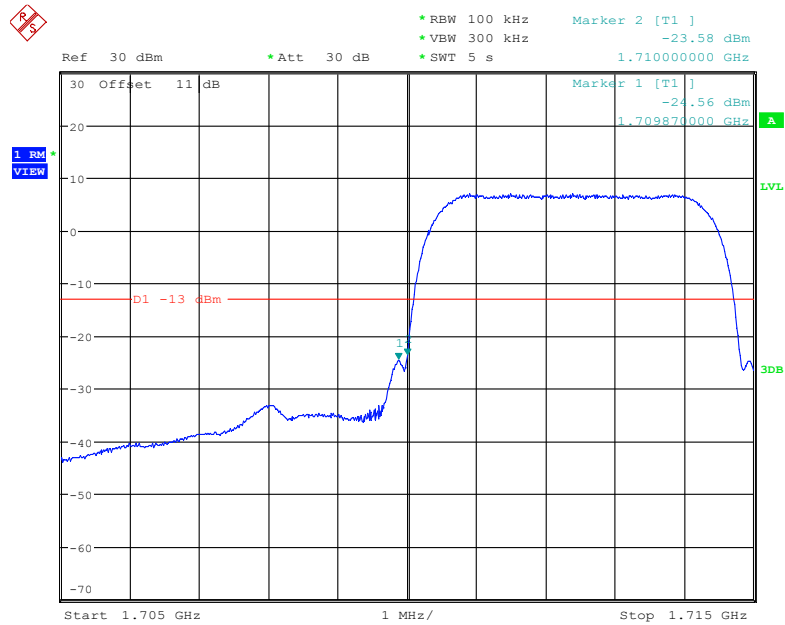
Date: 3.JAN.2023 10:27:21

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



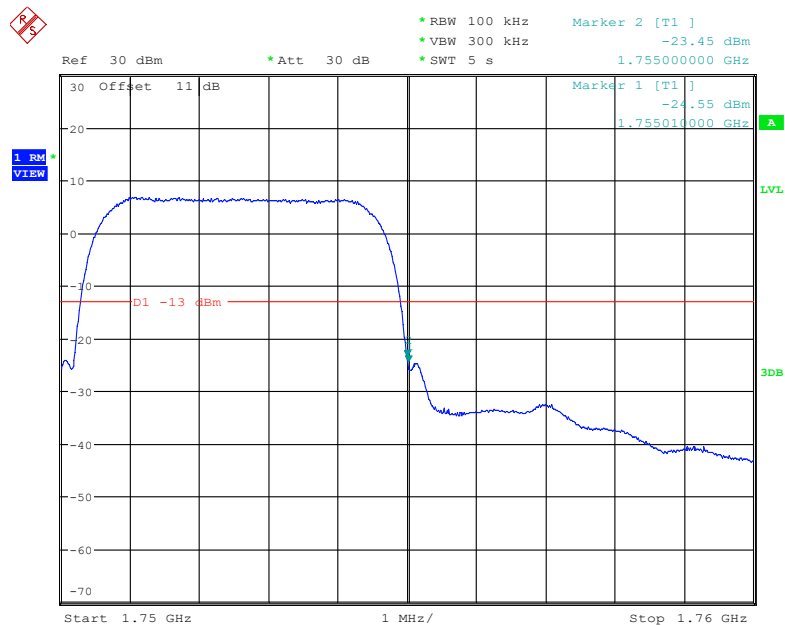
Date: 3.JAN.2023 10:35:32

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

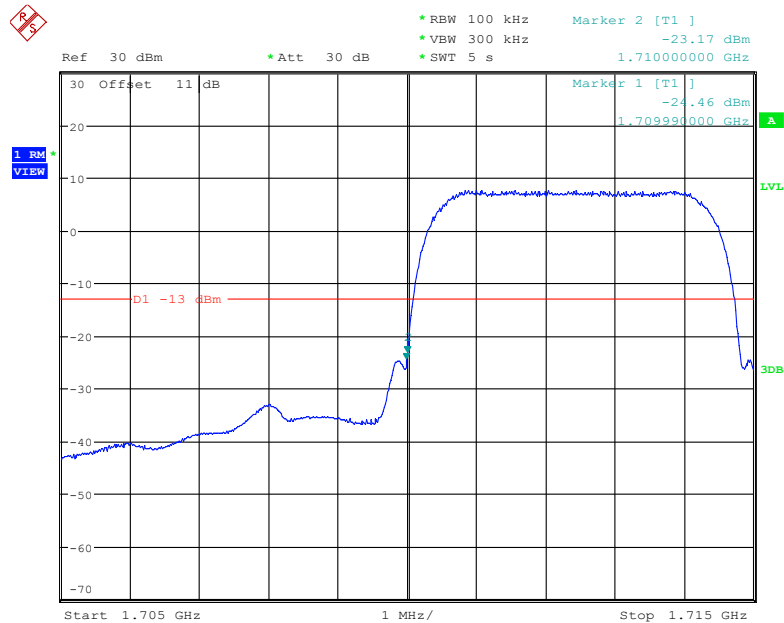


Date: 3.JAN.2023 11:04:26

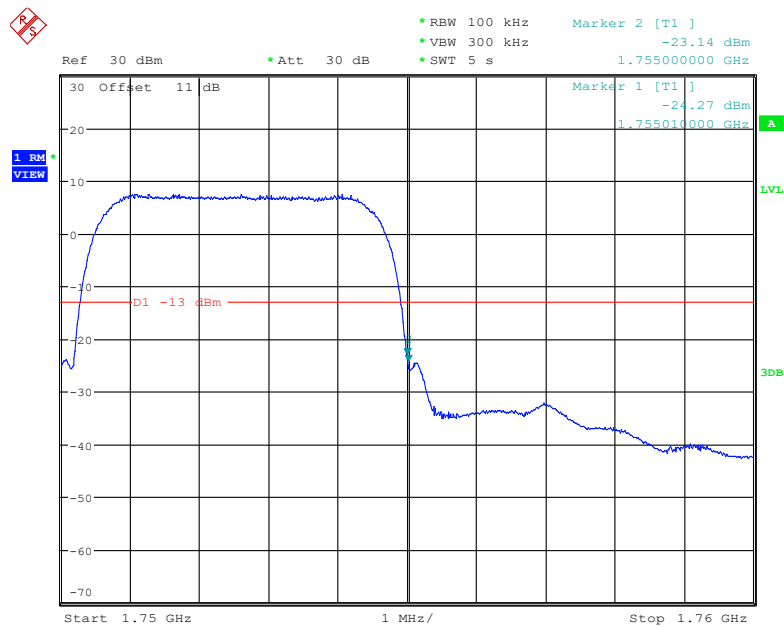
AWS Band, Right Band Edge for HSDPA (16QAM) Mode



Date: 3.JAN.2023 11:12:16

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

Date: 3.JAN.2023 11:17:43

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

Date: 3.JAN.2023 11:25:22

The test plots of LTE bands please refer to the Appendix C.

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

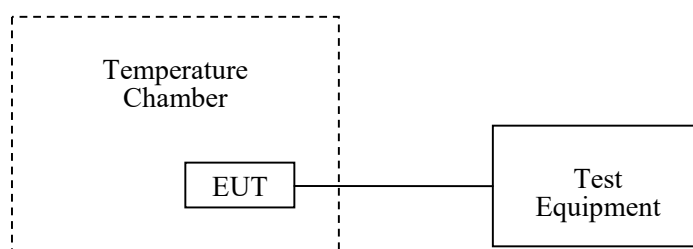
According to §24.235&§27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

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:	24.8~27.2℃
Relative Humidity:	52.1~56.8 %
ATM Pressure:	101.0 kPa

The testing was performed by Glenn Jiang from 2023-01-03 to 2023-01-31.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the following tables.

Cellular Band (Part 22H)**GSM Mode**

Middle Channel, $f_0=836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	9.13	0.0109	2.5
-20		8.51	0.0102	2.5
-10		8.68	0.0104	2.5
0		8.36	0.0100	2.5
10		8.10	0.0097	2.5
20		8.21	0.0098	2.5
30		8.75	0.0105	2.5
40		9.19	0.0110	2.5
50		8.83	0.0106	2.5
20	L.V.	9.36	0.0112	2.5
	H.V.	8.29	0.0099	2.5

EDGE Mode

Middle Channel, $f_0=836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	16.49	0.0197	2.5
-20		15.88	0.0190	2.5
-10		15.37	0.0184	2.5
0		15.51	0.0185	2.5
10		15.57	0.0186	2.5
20		15.32	0.0183	2.5
30		15.84	0.0189	2.5
40		16.38	0.0196	2.5
50		16.02	0.0192	2.5
20	L.V.	16.77	0.0200	2.5
	H.V.	16.09	0.0192	2.5

WCDMA Mode

Middle Channel, $f_0=836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	-12.87	-0.0154	2.5
-20		-13.49	-0.0161	2.5
-10		-13.27	-0.0159	2.5
0		-13.81	-0.0165	2.5
10		-13.47	-0.0161	2.5
20		-13.57	-0.0162	2.5
30		-13.78	-0.0165	2.5
40		-12.48	-0.0149	2.5
50		-13.31	-0.0159	2.5
20	L.V.	-12.55	-0.0150	2.5
	H.V.	-13.18	-0.0158	2.5

PCS Band (Part 24E)**GSM Mode**

Temperature (°C)	Power Supplied (V_{DC})	F_L (MHz)	F_H (MHz)	F_L Limit (MHz)	F_H Limit (MHz)
-30	N.V.	1850.0154	1909.9736	1850	1910
-20		1850.0136	1909.9745	1850	1910
-10		1850.0142	1909.9717	1850	1910
0		1850.0122	1909.9733	1850	1910
10		1850.0133	1909.9725	1850	1910
20		1850.0125	1909.9745	1850	1910
30		1850.0145	1909.9721	1850	1910
40		1850.0125	1909.9733	1850	1910
50		1850.0132	1909.9742	1850	1910
20	L.V.	1850.0137	1909.9728	1850	1910
	H.V.	1850.0141	1909.9732	1850	1910

EDGE Mode

Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1850.0676	1909.9357	1850	1910
-20		1850.0639	1909.9345	1850	1910
-10		1850.0643	1909.9390	1850	1910
0		1850.0662	1909.9379	1850	1910
10		1850.0637	1909.9361	1850	1910
20		1850.0683	1909.9384	1850	1910
30		1850.0637	1909.9410	1850	1910
40		1850.0654	1909.9348	1850	1910
50		1850.0645	1909.9367	1850	1910
20	L.V.	1850.0649	1909.9386	1850	1910
	H.V.	1850.0667	1909.9346	1850	1910

WCDMA Mode

Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1850.3008	1909.7002	1850	1910
-20		1850.3012	1909.6959	1850	1910
-10		1850.3074	1909.6996	1850	1910
0		1850.3011	1909.7006	1850	1910
10		1850.3027	1909.6964	1850	1910
20		1850.3071	1909.7007	1850	1910
30		1850.2998	1909.6972	1850	1910
40		1850.3040	1909.6940	1850	1910
50		1850.3013	1909.6947	1850	1910
20	L.V.	1850.3031	1909.6994	1850	1910
	H.V.	1850.3024	1909.6945	1850	1910

AWS Band (Part 27)

Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.3130	1754.6931	1710	1755
-20		1710.3096	1754.6951	1710	1755
-10		1710.3093	1754.6900	1710	1755
0		1710.3097	1754.6932	1710	1755
10		1710.3081	1754.6913	1710	1755
20		1710.3100	1754.6897	1710	1755
30		1710.3116	1754.6909	1710	1755
40		1710.3087	1754.6896	1710	1755
50		1710.3107	1754.6952	1710	1755
20	L.V.	1710.3097	1754.6943	1710	1755
	H.V.	1710.3113	1754.6900	1710	1755

LTE:
QPSK:
Band 2:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1850.5010	1909.4947	1850	1910
-20		1850.5051	1909.4983	1850	1910
-10		1850.5054	1909.5006	1850	1910
0		1850.5054	1909.4942	1850	1910
10		1850.5037	1909.4965	1850	1910
20		1850.5055	1909.5008	1850	1910
30		1850.5076	1909.4974	1850	1910
40		1850.5016	1909.4970	1850	1910
50		1850.5078	1909.4958	1850	1910
20	L.V.	1850.5074	1909.4938	1850	1910
	H.V.	1850.5070	1909.4965	1850	1910

Band 4:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.5180	1754.4892	1710	1755
-20		1710.5173	1754.4898	1710	1755
-10		1710.5120	1754.4855	1710	1755
0		1710.5178	1754.4884	1710	1755
10		1710.5133	1754.4867	1710	1755
20		1710.5169	1754.4916	1710	1755
30		1710.5132	1754.4888	1710	1755
40		1710.5137	1754.4846	1710	1755
50		1710.5107	1754.4858	1710	1755
20	L.V.	1710.5108	1754.4895	1710	1755
	H.V.	1710.5136	1754.4863	1710	1755

Band 5:

10.0 MHz Middle Channel, f _o =836.5MHz				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	-8.51	-0.0102	2.5
-20		5.32	0.0064	2.5
-10		6.84	0.0082	2.5
0		7.02	0.0084	2.5
10		-5.51	-0.0066	2.5
20		-7.68	-0.0092	2.5
30		-8.16	-0.0098	2.5
40		-9.39	-0.0112	2.5
50		8.32	0.0099	2.5
20	L.V.	6.62	0.0079	2.5
	H.V.	-5.46	-0.0065	2.5

Band 7:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2500.5118	2569.4894	2500	2570
-20		2500.5107	2569.4938	2500	2570
-10		2500.5093	2569.4902	2500	2570
0		2500.5087	2569.4895	2500	2570
10		2500.5088	2569.4916	2500	2570
20		2500.5098	2569.4897	2500	2570
30		2500.5079	2569.4921	2500	2570
40		2500.5126	2569.4889	2500	2570
50		2500.5084	2569.4919	2500	2570
20	L.V.	2500.5119	2569.4937	2500	2570
	H.V.	2500.5092	2569.4891	2500	2570

Band 12:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	699.5145	715.4896	699	716
-20		699.5106	715.4877	699	716
-10		699.5120	715.4899	699	716
0		699.5145	715.4882	699	716
10		699.5114	715.4881	699	716
20		699.5084	715.4874	699	716
30		699.5164	715.4898	699	716
40		699.5087	715.4872	699	716
50		699.5143	715.4909	699	716
20	L.V.	699.5092	715.4892	699	716
	H.V.	699.5153	715.4874	699	716

Band 17:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	704.5106	715.4855	704	716
-20		704.5111	715.4851	704	716
-10		704.5185	715.4882	704	716
0		704.5165	715.4835	704	716
10		704.5136	715.4861	704	716
20		704.5127	715.4839	704	716
30		704.5147	715.4872	704	716
40		704.5170	715.4845	704	716
50		704.5137	715.4909	704	716
20	L.V.	704.5134	715.4843	704	716
	H.V.	704.5130	715.4864	704	716

Band 38:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2570.5109	2619.4855	2570	2620
-20		2570.5116	2619.4852	2570	2620
-10		2570.5139	2619.4881	2570	2620
0		2570.5182	2619.4860	2570	2620
10		2570.5134	2619.4863	2570	2620
20		2570.5168	2619.4903	2570	2620
30		2570.5143	2619.4896	2570	2620
40		2570.5121	2619.4857	2570	2620
50		2570.5168	2619.4882	2570	2620
20	L.V.	2570.5119	2619.4870	2570	2620
	H.V.	2570.5177	2619.4895	2570	2620

Band 41:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2535.5166	2654.4845	2535	2655
-20		2535.5178	2654.4859	2535	2655
-10		2535.5180	2654.4830	2535	2655
0		2535.5132	2654.4889	2535	2655
10		2535.5152	2654.4841	2535	2655
20		2535.5194	2654.4841	2535	2655
30		2535.5155	2654.4818	2535	2655
40		2535.5152	2654.4879	2535	2655
50		2535.5136	2654.4849	2535	2655
20	L.V.	2535.5167	2654.4829	2535	2655
	H.V.	2535.5126	2654.4868	2535	2655

Band 66:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.5086	1779.4882	1710	1780
-20		1710.5153	1779.4941	1710	1780
-10		1710.5089	1779.4898	1710	1780
0		1710.5115	1779.4894	1710	1780
10		1710.5108	1779.4894	1710	1780
20		1710.5130	1779.4900	1710	1780
30		1710.5142	1779.4868	1710	1780
40		1710.5107	1779.4924	1710	1780
50		1710.5134	1779.4927	1710	1780
20	L.V.	1710.5119	1779.4876	1710	1780
	H.V.	1710.5123	1779.4931	1710	1780

16QAM:**Band 2:**

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1850.5040	1909.4967	1850	1910
-20		1850.5008	1909.4969	1850	1910
-10		1850.5069	1909.5001	1850	1910
0		1850.5053	1909.4981	1850	1910
10		1850.5032	1909.4963	1850	1910
20		1850.5037	1909.5013	1850	1910
30		1850.5011	1909.4980	1850	1910
40		1850.5074	1909.4949	1850	1910
50		1850.5071	1909.5008	1850	1910
20	L.V.	1850.5072	1909.4937	1850	1910
	H.V.	1850.5045	1909.4958	1850	1910

Band 4:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.5178	1754.4845	1710	1755
-20		1710.5164	1754.4847	1710	1755
-10		1710.5107	1754.4872	1710	1755
0		1710.5170	1754.4902	1710	1755
10		1710.5136	1754.4862	1710	1755
20		1710.5153	1754.4842	1710	1755
30		1710.5133	1754.4837	1710	1755
40		1710.5173	1754.4877	1710	1755
50		1710.5162	1754.4846	1710	1755
20	L.V.	1710.5163	1754.4889	1710	1755
	H.V.	1710.5165	1754.4864	1710	1755

Band 5:

10.0 MHz Middle Channel, $f_0=836.5\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	-6.14	-0.0073	2.5
-20		-7.45	-0.0089	2.5
-10		-5.05	-0.006	2.5
0		-5.43	-0.0065	2.5
10		-8.29	-0.0099	2.5
20		-6.11	-0.0073	2.5
30		-8.86	-0.0106	2.5
40		7.02	0.0084	2.5
50		-9.85	-0.0118	2.5
20	L.V.	-8.56	-0.0102	2.5
	H.V.	-5.60	-0.0067	2.5

Band 7:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V_{DC})	F_L (MHz)	F_H (MHz)	F_L Limit (MHz)	F_H Limit (MHz)
-30	N.V.	2500.5123	2569.4942	2500	2570
-20		2500.5102	2569.4894	2500	2570
-10		2500.5103	2569.4891	2500	2570
0		2500.5065	2569.4940	2500	2570
10		2500.5084	2569.4918	2500	2570
20		2500.5066	2569.4918	2500	2570
30		2500.5059	2569.4898	2500	2570
40		2500.5063	2569.4936	2500	2570
50		2500.5079	2569.4928	2500	2570
20	L.V.	2500.5101	2569.4960	2500	2570
	H.V.	2500.5056	2569.4889	2500	2570

Band 12:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	699.5104	715.4883	699	716
-20		699.5173	715.4877	699	716
-10		699.5120	715.4860	699	716
0		699.5107	715.4876	699	716
10		699.5124	715.4877	699	716
20		699.5145	715.4885	699	716
30		699.5164	715.4873	699	716
40		699.5151	715.4857	699	716
50		699.5154	715.4889	699	716
20	L.V.	699.5098	715.4857	699	716
	H.V.	699.5159	715.4852	699	716

Band 17:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	704.5149	715.4848	704	716
-20		704.5156	715.4846	704	716
-10		704.5127	715.4923	704	716
0		704.5127	715.4883	704	716
10		704.5122	715.4873	704	716
20		704.5129	715.4880	704	716
30		704.5130	715.4847	704	716
40		704.5134	715.4868	704	716
50		704.5139	715.4845	704	716
20	L.V.	704.5139	715.4910	704	716
	H.V.	704.5139	715.4854	704	716

Band 38:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2570.5103	2619.4918	2570	2620
-20		2570.5107	2619.4908	2570	2620
-10		2570.5103	2619.4870	2570	2620
0		2570.5129	2619.4879	2570	2620
10		2570.5127	2619.4876	2570	2620
20		2570.5145	2619.4851	2570	2620
30		2570.5152	2619.4866	2570	2620
40		2570.5120	2619.4909	2570	2620
50		2570.5144	2619.4885	2570	2620
20	L.V.	2570.5102	2619.4891	2570	2620
	H.V.	2570.5114	2619.4922	2570	2620

Band 41:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2535.5194	2654.4863	2535	2655
-20		2535.5194	2654.4887	2535	2655
-10		2535.5126	2654.4857	2535	2655
0		2535.5148	2654.4850	2535	2655
10		2535.5152	2654.4847	2535	2655
20		2535.5194	2654.4876	2535	2655
30		2535.5157	2654.4874	2535	2655
40		2535.5193	2654.4853	2535	2655
50		2535.5156	2654.4834	2535	2655
20	L.V.	2535.5133	2654.4837	2535	2655
	H.V.	2535.5169	2654.4835	2535	2655

Band 66:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.5135	1779.4911	1710	1780
-20		1710.5128	1779.4871	1710	1780
-10		1710.5155	1779.4893	1710	1780
0		1710.5100	1779.4853	1710	1780
10		1710.5122	1779.4875	1710	1780
20		1710.5149	1779.4922	1710	1780
30		1710.5162	1779.4889	1710	1780
40		1710.5112	1779.4864	1710	1780
50		1710.5150	1779.4861	1710	1780
20	L.V.	1710.5146	1779.4901	1710	1780
	H.V.	1710.5124	1779.4886	1710	1780

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