



TESTING LABORATORY
CERTIFICATE #4820.01



FCC PART 22H, PART 24E, PART 27, PART 90 MEASUREMENT AND TEST REPORT

For

Hytera Communications Corporation Limited

Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen,
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FCC ID: YAMVM580D


Report Type: Original Report	Product Type: Body Worn Camera
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	Body Worn Camera
EUT Model:	VM580D
Antenna Gain[▲]:	GSM850/WCDMA B5/LTE B5/B26: -0.5 dBi(-2.65dBd) PCS1900/WCDMA B2/LTE B2: 0.65 dBi WCDMA B4/LTE B4: -0.8 dBi LTE B7:1.1 dBi LTE B38/B41:1.2 dBi LTE B12/B17: -0.4 dBi(-2.55 dBd) LTE B13:-0.45 dBi LTE B40: 1.5 dBi
Modulation Type:	GMSK,8PSK, BPSK, QPSK, 16QAM
Rated Input Voltage:	DC 3.85V from Battery or DC 5V from adapter
Adapter Information	Model: S010WU0500200
	Input: 100-240Vac 50/60Hz 400mA
	Output: 5.0Vdc 2000mA
Serial Number:	DG2210729-31788E-RF-S1
EUT Received Date:	2021.07.29
EUT Received Status:	Good

Objective

This report is prepared on behalf of *Hytera Communications Corporation Limited* in accordance with: Part 2-Subpart J, Part 22-Subpart H, Part 24-Subpart E, Part 27, Part 90 of the Federal Communications Commission's rules.

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

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS,DTS submissions with FCC ID: YAMVM580D

Test Methodology

All tests and measurements indicated in this document were performed in accordance with:

The Code of federal Regulations Title 47, Part 2, Part 22H, Part 24E, Part 27, part 90.

ANSI C63.26-2015, American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

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

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Unwanted Emissions, radiated	30MHz ~ 1GHz: 5.85 dB 1G~26.5GHz: 5.23 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to ANSI C63.26-2015.

The test items were performed with the EUT operating at testing mode. The device operates on GSM Band 850/1900MHz, WCDMA Band 2/4/5, and LTE band 2/4/5/7/12/13/17/26/38/40/41, test was performed with channels as below table:

Frequency Bands	Bandwidth (MHz)	Test Frequency(MHz)		
		Low	Middle	High
GSM/GPRS 850	0.25	824.2	836.6	848.8
GSM/GPRS 1900	0.25	1850.2	1880	1909.8
WCDMA Band 2	4.2	1852.4	1880	1907.6
WCDMA Band 4	4.2	1712.4	1732.6	1752.6
WCDMA Band 5	4.2	826.4	836.6	846.6
LTE Band 2	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 Band 4	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 Band 5	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 Band 7	5	2502.5	2535	2567.5
	10	2505	2535	2565
	15	2507.5	2535	2562.5
	20	2510	2535	2560
LTE Band 12	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 Band 13	5	779.5	782	784.5
	10	/	782	/
LTE Band 17	5	706.5	710	713.5
	10	709	710	711
LTE Band 26	1.4	814.7	831.5	848.3
	3	815.5	831.5	847.5
	5	816.5	831.5	846.5
	10	819	831.5	844
	15	821.5	831.5	841.5
LTE Band 38	5	2572.5	2595	2617.5
	10	2575	2595	2615
	15	2577.5	2595	2612.5
	20	2580	2595	2610

LTE Band 40 Lower 2305-2315MHz	5	2307.5	2310	2312.5
	10	/	2310	/
LTE Band 40 Upper 2350-2360MHz	5	2352.5	2355	2357.5
	10	/	2355	/
LTE Band 41	5	2557.5	2605	2652.5
	10	2560	2605	2650
	15	2562.5	2605	2647.5
	20	2565	2605	2645

Equipment Modifications

No modification was made to the EUT.

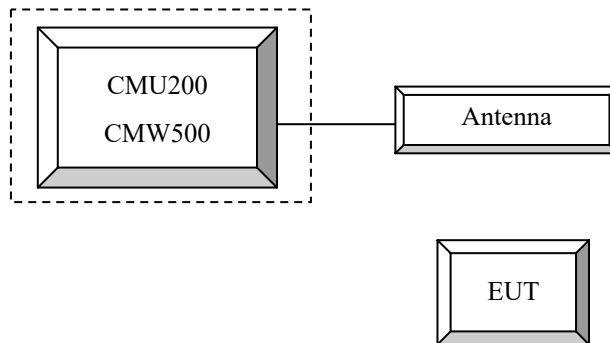
EUT Exercise Software

No software was used in test.

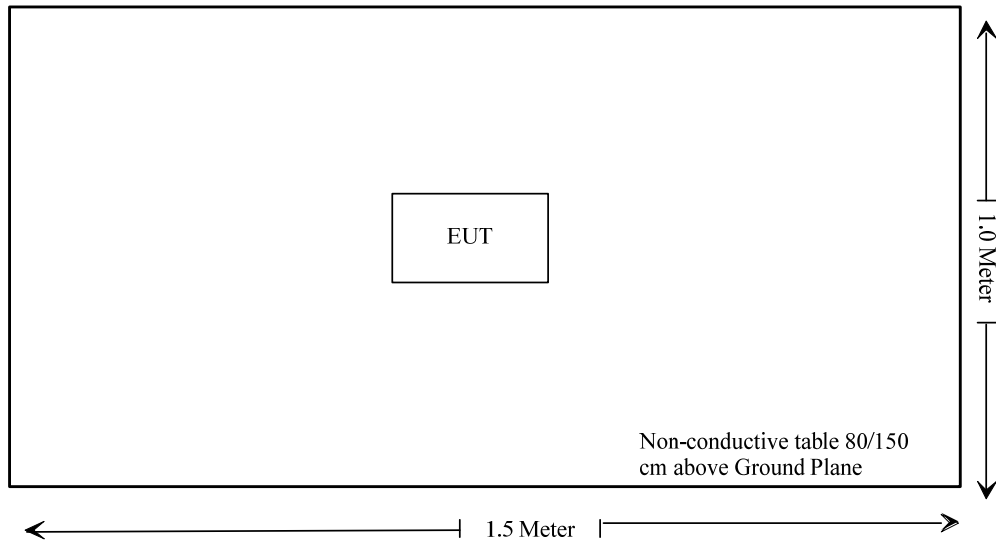
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
R&S	Universal Radio Communication Tester	CMU200	106 891
R&S	Wideband Radio Communication Tester	CMW500	147473
Un-Known	ANTENNA	Un-Known	Un-Known

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§1.1310, §2.1093	RF Exposure	Compliance
FCC§2.1046; § 22.913 (a); § 24.232 (c); §27.50;§90.635	RF Output Power	Compliance
FCC§ 2.1047	Modulation Characteristics	Not Applicable
FCC§ 2.1049; § 22.905 § 22.917; § 24.238; §27.53 §90.209	Occupied Bandwidth	Compliance
FCC§ 2.1051, § 22.917 (a); § 24.238 (a); §27.53;§90.691	Spurious Emissions at Antenna Terminal	Compliance
FCC§ 2.1053 § 22.917 (a); § 24.238 (a); §27.53 ;§90.691	Field Strength of Spurious Radiation	Compliance
FCC§ 22.917 (a); § 24.238 (a); §27.53;§90.691	Out of band emission, Band Edge	Compliance
FCC§ 2.1055 § 22.355; § 24.235; §27.54 §90.213	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

FCC §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: DG2210729-31788E-20A.

FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E, part 27, part 90 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC § 2.1046, § 22.913 (a) & § 24.232 (c) & § 27.50 & § 90.635 - RF OUTPUT POWER

Applicable Standard

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

According to FCC §2.1046 and §24.232 (C), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

According to §27.50

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

(b)(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

(c) (10) 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.

(d), (4) 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. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

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

According to §90.635

(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

Test Procedure

GSM/GPRS/EGPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900
 Press Connection control to choose the different menus
 Press RESET > choose all the reset all settings
 Connection Press Signal Off to turn off the signal and change settings
 Network Support > GSM + GPRS or GSM + EGSM
 Main Service > Packet Data
 Service selection > Test Mode A – Auto Slot Config. off
 MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting
 > Slot configuration > Uplink/Gamma
 > 33 dBm for GPRS 850
 > 30 dBm for GPRS 1900
 > 27 dBm for EGPRS 850
 > 26 dBm for EGPRS 1900
 BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel
 Frequency Offset > + 0 Hz
 Mode > BCCH and TCH

 BCCH Level > -85 dBm (May need to adjust if link is not stable)
 BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

 Channel Type > Off
 P0 > 4 dB
 Slot Config > Unchanged (if already set under MS signal)
 TCH > choose desired test channel
 Hopping > Off
 Main Timeslot > 3
 Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)

 Bit Stream > 2E9-1 PSR Bit Stream
 AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input
 Connection Press Signal on to turn on the signal and change settings

WCDMA-Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c / β_d	8/15

WCDMA HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subset	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm2			
	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	β_d (SF)	64			
	β_c / β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR(dB)	0	0	0.5	0.5
HSDPA Specific Settings	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	$A_{hs} = \beta_{hs} / \beta_c$	30/15			

WCDMA HSUPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subset	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30/15	2/15	5/15
	β_c / β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.0	2.0	3.0	1.0
MPR(dB)	0	2	1	2	0	
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	$A_{hs} = \beta_{hs} / \beta_c$	30/15				
HSUPA Specific Settings	DE-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E_FCIs	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	

HSPA+

The following tests were conducted according to the test requirements in Table C.11.1.4 of 3GPP TS 34.121-1

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
<p>Note 1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.</p> <p>Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).</p> <p>Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.</p> <p>Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.</p> <p>Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.</p>											

DC-HSDPA

The following tests were conducted according to the test requirements in Table C.8.1.12 of 3GPP TS 34.121-1

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
<p>Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.</p> <p>Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.</p>		

LTE (FDD):

The following tests were conducted according to the test requirements in 3GPP TS36.101

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N _{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3	13	10	Table 6.2.4-2	Table 6.2.4-2
	6.6.3.3.2				
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

LTE(TDD)

3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

Calculated Duty Cycle = Extended cyclic prefix in uplink x (T_s) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
 Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$
 where
 T_s = 1/(15000 x 2048) seconds

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	Each time	N/A
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005011	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each time	N/A
Unknown	Attenuator	UNAT-3+	15529	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	110479	2020-09-23	2021-09-22
R&S	Universal Radio Communication Tester	CMU200	106 891	2020-09-23	2021-09-22

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

Test Data**Environmental Conditions**

Temperature:	24.4~28.3 °C
Relative Humidity:	46~50 %
ATM Pressure:	99.5kPa
Tester:	Lay Lei
Test Date:	2021-08-02~2021-08-16

Test Result: Compliance

GPRS/EDGE**Conducted Output Power:**

Band	Channel No.	Conducted Peak Output Power (dBm)							
		GPRS 1 TX Slot	GPRS 2 TX Slots	GPRS 3 TX Slots	GPRS 4 TX Slots	EGPRS 1 TX Slot	EGPRS 2 TX Slots	EGPRS 3 TX Slots	EGPRS 4 TX Slots
Cellular	128	32.14	30.53	28.69	26.81	26.84	24.86	22.93	20.87
	190	32.26	30.67	28.74	26.82	26.89	24.74	22.85	20.92
	251	32.21	30.49	28.82	26.84	26.92	24.83	22.87	20.94
PCS	512	28.89	26.87	24.79	22.83	25.78	23.76	22.64	20.76
	661	28.95	26.92	24.87	22.79	25.69	23.82	21.92	20.12
	810	28.83	26.88	24.93	22.87	25.81	23.84	21.97	20.02

ERP/EIRP:

Band	Mode	Channel	Conducted Power (dBm)	Antenna Gain (dBi/dBd)	Result (dBm)	Limit (dBm)
Cellular	GPRS	Low	32.14	-2.65	29.49	38.45
		Middle	32.26	-2.65	29.61	38.45
		High	32.21	-2.65	29.56	38.45
	EDGE	Low	26.84	-2.65	24.19	38.45
		Middle	26.89	-2.65	24.24	38.45
		High	26.92	-2.65	24.27	38.45
PCS	GPRS	Low	28.89	0.65	29.54	33
		Middle	28.95	0.65	29.60	33
		High	28.83	0.65	29.48	33
	EDGE	Low	25.78	0.65	26.43	33
		Middle	25.69	0.65	26.34	33
		High	25.81	0.65	26.46	33

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Result = Conducted Power + Antenna Gain
- 3) Antenna gain(dBd)= Antenna gain(dBi)-2.15

WCDMA Band 2

Conducted Output Power and PAR:

Mode	3GPP Sub Test	Low Channel		Middle Channel		High Channel	
		Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)
Rel 99	1	22.64	2.32	22.75	2.52	22.84	2.32
HSDPA	1	22.48	2.96	22.83	3.86	22.69	2.93
	2	22.57	3.02	22.84	3.64	22.72	2.95
	3	22.82	2.56	22.86	3.28	22.82	3.16
	4	22.69	2.67	22.79	3.64	22.93	3.37
HSUPA	1	22.57	3.28	22.87	3.16	22.76	3.16
	2	22.34	2.89	22.83	3.27	22.68	3.12
	3	22.28	2.97	22.76	2.84	22.57	2.97
	4	22.65	2.95	22.71	2.73	22.72	2.83
	5	22.43	2.87	22.91	2.88	22.48	2.78
DC-HSDPA	1	22.71	3.25	22.06	3.08	22.07	2.67
	2	22.42	3.54	22.12	3.15	21.93	2.86
	3	22.51	2.72	22.27	3.26	21.67	2.74
	4	22.36	2.61	22.18	2.53	21.75	2.58
HSPA+ (16QAM)	1	22.47	2.12	21.04	2.26	20.72	2.18

EIRP:

Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Result (dBm)	Limit (dBm)
Low	22.82	0.65	23.47	33
Middle	22.91	0.65	23.56	33
High	22.93	0.65	23.58	33

WCDMA Band 5**Conducted Output Power and PAR:**

Mode	3GPP Sub Test	Low Channel		Middle Channel		High Channel	
		Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)
Rel 99	1	22.51	2.75	22.76	2.46	22.37	2.41
HSDPA	1	22.38	3.01	22.74	3.39	22.42	2.70
	2	22.48	2.67	22.82	3.47	22.58	2.63
	3	22.56	2.82	22.71	3.28	22.37	2.74
	4	22.72	2.95	22.85	3.46	22.41	2.58
HSUPA	1	22.78	3.13	22.83	3.13	22.52	3.80
	2	22.71	3.41	22.94	3.27	22.74	3.21
	3	22.61	3.26	22.52	3.46	22.38	2.86
	4	22.55	3.17	22.38	3.28	22.51	2.73
	5	22.37	3.23	22.67	3.51	22.47	3.04
DC-HSDPA	1	22.41	3.28	21.67	3.42	22.31	3.12
	2	22.54	2.85	21.95	3.37	21.67	3.62
	3	22.37	3.46	21.82	3.35	21.54	2.96
	4	22.69	3.62	21.76	3.26	22.14	3.17
HSPA+ (16QAM)	1	22.76	2.37	20.61	2.46	20.83	2.51

ERP:

Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Result (dBm)	Limit (dBm)
Low	22.78	-2.65	20.13	38.45
Middle	22.94	-2.65	20.29	38.45
High	22.74	-2.65	20.09	38.45

WCDMA Band 4

Mode	3GPP Sub Test	Low Channel		Middle Channel		High Channel	
		Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)
Rel 99	1	22.47	2.96	22.56	3.07	22.34	3.13
HSDPA	1	22.38	3.54	22.28	3.30	21.89	3.30
	2	22.61	3.24	22.41	3.28	22.42	2.87
	3	22.52	3.16	22.35	2.83	22.36	3.05
	4	22.81	3.17	22.26	3.01	22.52	3.26
HSUPA	1	22.34	3.22	22.25	0.29	22.32	3.33
	2	22.63	3.15	22.27	2.58	22.46	3.14
	3	22.47	3.28	22.34	3.56	22.38	3.28
	4	22.58	3.19	22.45	3.61	22.31	3.36
	5	22.64	2.95	22.37	3.26	22.26	2.92
DC-HSDPA	1	22.82	3.26	21.28	3.42	21.39	2.63
	2	22.37	3.64	21.64	3.59	21.25	2.84
	3	22.88	3.28	22.18	3.28	21.62	2.89
	4	22.92	3.41	21.67	2.67	21.57	3.27
HSPA+ (16QAM)	1	22.46	2.37	20.41	2.31	20.54	2.48

EIRP:

Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Result (dBm)	Limit (dBm)
Low	22.92	-0.8	22.12	30
Middle	22.56	-0.8	21.76	30
High	22.52	-0.8	21.72	30

LTE Band 2

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4MHz	QPSK	RB1#0	22.93	22.81	22.85
		RB1#3	22.95	22.98	23.02
		RB1#5	22.85	22.81	22.85
		RB3#0	22.92	22.87	22.91
		RB3#3	22.90	22.86	22.95
		RB6#0	21.90	21.81	21.94
	16QAM	RB1#0	21.92	21.77	21.87
		RB1#3	22.16	21.98	22.03
		RB1#5	21.92	21.80	21.86
		RB3#0	21.88	21.94	22.14
		RB3#3	21.91	21.91	22.12
		RB6#0	20.90	20.79	20.86
3MHz	QPSK	RB1#0	22.84	22.85	22.92
		RB1#8	22.82	22.81	22.90
		RB1#14	22.82	22.81	22.89
		RB6#0	21.80	21.79	21.82
		RB6#9	21.82	21.77	21.83
		RB15#0	21.83	21.80	21.89
	16QAM	RB1#0	22.33	21.92	21.87
		RB1#8	22.32	21.92	21.85
		RB1#14	22.30	21.89	21.85
		RB6#0	20.86	20.76	20.78
		RB6#9	20.85	20.79	20.75
		RB15#0	20.88	20.74	20.91
5MHz	QPSK	RB1#0	22.74	22.75	22.75
		RB1#13	22.87	22.85	22.93
		RB1#24	22.76	22.76	22.81
		RB15#0	21.88	21.80	21.95
		RB15#10	21.90	21.79	21.86
		RB25#0	21.79	21.77	21.89
	16QAM	RB1#0	21.63	22.01	21.80
		RB1#13	21.74	22.10	21.93
		RB1#24	21.64	21.99	21.85
		RB15#0	20.89	20.78	20.97
		RB15#10	20.90	20.78	20.90
		RB25#0	20.87	20.76	20.88

10MHz	QPSK	RB1#0	22.81	22.82	22.81
		RB1#25	22.95	23.00	23.04
		RB1#49	22.86	22.85	22.91
		RB25#0	21.91	21.84	21.97
		RB25#25	21.88	21.79	21.86
		RB50#0	21.97	21.83	21.91
	16QAM	RB1#0	22.32	21.93	21.79
		RB1#25	22.57	22.08	21.99
		RB1#49	22.38	21.93	21.89
		RB25#0	20.97	20.84	21.05
		RB25#25	20.96	20.83	20.97
		RB50#0	20.85	20.84	20.93
15MHz	QPSK	RB1#0	22.76	22.74	23.21
		RB1#38	22.83	22.85	23.34
		RB1#74	22.75	22.75	23.30
		RB36#0	21.92	21.89	22.42
		RB36#39	21.88	21.91	22.43
		RB75#0	22.02	21.91	22.43
	16QAM	RB1#0	22.28	21.87	22.72
		RB1#38	22.42	23.16	22.89
		RB1#74	22.32	22.99	22.83
		RB36#0	20.88	21.85	21.39
		RB36#39	20.91	21.81	21.44
		RB75#0	20.88	21.76	21.37
20MHz	QPSK	RB1#0	23.08	23.07	23.01
		RB1#50	23.53	23.54	23.46
		RB1#99	23.13	23.14	23.11
		RB50#0	22.37	22.31	22.37
		RB50#50	22.35	22.27	22.34
		RB100#0	22.44	22.31	22.35
	16QAM	RB1#0	22.35	22.28	22.53
		RB1#50	22.83	22.67	22.97
		RB1#99	22.43	22.23	22.67
		RB50#0	21.35	21.29	21.33
		RB50#50	21.36	21.24	21.33
		RB100#0	21.42	21.28	21.34

PAR:

Test Modulation		Channel Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit (dB)
QPSK	1 RB	20 MHz	4.38	5.16	4.93	13.00
	100 RB		4.84	4.81	5.01	13.00
16QAM	1 RB	20 MHz	4.87	5.65	5.51	13.00
	100 RB		5.80	5.80	5.91	13.00

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Result (dBm)	Limit (dBm)
1.4MHz	QPSK	Low	22.95	0.65	23.60	33.00
		Middle	22.98	0.65	23.63	33.00
		High	23.02	0.65	23.67	33.00
	16QAM	Low	22.16	0.65	22.81	33.00
		Middle	21.98	0.65	22.63	33.00
		High	22.14	0.65	22.79	33.00
3MHz	QPSK	Low	22.84	0.65	23.49	33.00
		Middle	22.85	0.65	23.50	33.00
		High	22.92	0.65	23.57	33.00
	16QAM	Low	22.33	0.65	22.98	33.00
		Middle	21.92	0.65	22.57	33.00
		High	21.87	0.65	22.52	33.00
5MHz	QPSK	Low	22.87	0.65	23.52	33.00
		Middle	22.85	0.65	23.50	33.00
		High	22.93	0.65	23.58	33.00
	16QAM	Low	21.74	0.65	22.39	33.00
		Middle	22.10	0.65	22.75	33.00
		High	21.93	0.65	22.58	33.00
10MHz	QPSK	Low	22.95	0.65	23.60	33.00
		Middle	23.00	0.65	23.65	33.00
		High	23.04	0.65	23.69	33.00
	16QAM	Low	22.57	0.65	23.22	33.00
		Middle	22.08	0.65	22.73	33.00
		High	21.99	0.65	22.64	33.00
15MHz	QPSK	Low	22.83	0.65	23.48	33.00
		Middle	22.85	0.65	23.50	33.00
		High	23.34	0.65	23.99	33.00
	16QAM	Low	22.42	0.65	23.07	33.00
		Middle	23.16	0.65	23.81	33.00
		High	22.89	0.65	23.54	33.00
20MHz	QPSK	Low	23.53	0.65	24.18	33.00
		Middle	23.54	0.65	24.19	33.00
		High	23.46	0.65	24.11	33.00
	16QAM	Low	22.83	0.65	23.48	33.00
		Middle	22.67	0.65	23.32	33.00
		High	22.97	0.65	23.62	33.00

LTE Band 4

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4MHz	QPSK	RB1#0	23.23	23.18	23.19
		RB1#3	23.34	23.35	23.37
		RB1#5	23.23	23.18	23.18
		RB3#0	23.33	23.28	23.29
		RB3#3	23.31	23.25	23.33
		RB6#0	22.28	22.23	22.22
	16QAM	RB1#0	22.23	22.24	22.20
		RB1#3	22.39	22.48	22.38
		RB1#5	22.22	22.31	22.21
		RB3#0	22.53	22.24	22.39
		RB3#3	22.54	22.31	22.40
		RB6#0	21.28	21.25	21.17
3MHz	QPSK	RB1#0	23.28	23.23	23.23
		RB1#8	23.26	23.27	23.26
		RB1#14	23.25	23.24	23.29
		RB6#0	22.23	22.21	22.19
		RB6#9	22.23	22.20	22.16
		RB15#0	22.31	22.24	22.27
	16QAM	RB1#0	22.84	22.36	22.25
		RB1#8	22.85	22.33	22.27
		RB1#14	22.83	22.33	22.26
		RB6#0	21.31	21.18	21.14
		RB6#9	21.29	21.19	21.12
		RB15#0	21.36	21.20	21.36
5MHz	QPSK	RB1#0	23.25	23.20	23.16
		RB1#13	23.32	23.32	23.27
		RB1#24	23.27	23.20	23.18
		RB15#0	22.33	22.23	22.30
		RB15#10	22.32	22.26	22.30
		RB25#0	22.29	22.24	22.22
	16QAM	RB1#0	22.12	22.45	22.19
		RB1#13	22.21	22.54	22.28
		RB1#24	22.14	22.44	22.24
		RB15#0	21.38	21.23	21.34
		RB15#10	21.36	21.29	21.31
		RB25#0	21.34	21.22	21.31
10MHz	QPSK	RB1#0	23.28	23.27	23.24
		RB1#25	23.40	23.42	23.38
		RB1#49	23.25	23.29	23.27
		RB25#0	22.40	22.31	22.35
		RB25#25	22.38	22.37	22.29
		RB50#0	22.35	22.33	22.33
	16QAM	RB1#0	22.85	22.38	22.20
		RB1#25	22.96	22.53	22.39
		RB1#49	22.87	22.37	22.28
		RB25#0	21.45	21.29	21.47
		RB25#25	21.44	21.42	21.40
		RB50#0	21.38	21.32	21.35

15MHz	QPSK	RB1#0	23.19	23.20	23.16
		RB1#38	23.30	23.31	23.31
		RB1#74	23.18	23.18	23.19
		RB36#0	22.39	22.31	22.33
		RB36#39	22.38	22.41	22.29
		RB75#0	22.41	22.35	22.33
	16QAM	RB1#0	22.75	22.29	22.51
		RB1#38	22.88	22.42	22.71
		RB1#74	22.79	22.29	22.60
		RB36#0	21.38	21.31	21.33
		RB36#39	21.40	21.42	21.26
		RB75#0	21.40	21.36	21.30
20MHz	QPSK	RB1#0	23.07	23.05	22.95
		RB1#50	23.46	23.49	23.38
		RB1#99	23.06	23.08	22.99
		RB50#0	22.36	22.29	22.29
		RB50#50	22.36	22.37	22.16
		RB100#0	22.37	22.33	22.25
	16QAM	RB1#0	22.33	22.23	22.52
		RB1#50	22.81	22.66	22.92
		RB1#99	22.35	22.25	22.58
		RB50#0	21.36	21.28	21.29
		RB50#50	21.35	21.35	21.18
		RB100#0	21.39	21.33	21.25

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	20 MHz	4.64	4.99	4.99	13
	100 RB		5.33	5.22	5.36	13
16QAM	1 RB	20 MHz	5.59	5.45	6.32	13
	100 RB		6.38	6.23	6.26	13

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Result (dBm)	Limit (dBm)
1.4MHz	QPSK	Low	23.34	-0.80	22.54	30.00
		Middle	23.35	-0.80	22.55	30.00
		High	23.37	-0.80	22.57	30.00
	16QAM	Low	22.54	-0.80	21.74	30.00
		Middle	22.48	-0.80	21.68	30.00
		High	22.40	-0.80	21.60	30.00
3MHz	QPSK	Low	23.28	-0.80	22.48	30.00
		Middle	23.27	-0.80	22.47	30.00
		High	23.29	-0.80	22.49	30.00
	16QAM	Low	22.85	-0.80	22.05	30.00
		Middle	22.36	-0.80	21.56	30.00
		High	22.27	-0.80	21.47	30.00
5MHz	QPSK	Low	23.32	-0.80	22.52	30.00
		Middle	23.32	-0.80	22.52	30.00
		High	23.27	-0.80	22.47	30.00
	16QAM	Low	22.21	-0.80	21.41	30.00
		Middle	22.54	-0.80	21.74	30.00
		High	22.28	-0.80	21.48	30.00
10MHz	QPSK	Low	23.40	-0.80	22.60	30.00
		Middle	23.42	-0.80	22.62	30.00
		High	23.38	-0.80	22.58	30.00
	16QAM	Low	22.96	-0.80	22.16	30.00
		Middle	22.53	-0.80	21.73	30.00
		High	22.39	-0.80	21.59	30.00
15MHz	QPSK	Low	23.30	-0.80	22.50	30.00
		Middle	23.31	-0.80	22.51	30.00
		High	23.31	-0.80	22.51	30.00
	16QAM	Low	22.88	-0.80	22.08	30.00
		Middle	22.42	-0.80	21.62	30.00
		High	22.71	-0.80	21.91	30.00
20MHz	QPSK	Low	23.46	-0.80	22.66	30.00
		Middle	23.49	-0.80	22.69	30.00
		High	23.38	-0.80	22.58	30.00
	16QAM	Low	22.81	-0.80	22.01	30.00
		Middle	22.66	-0.80	21.86	30.00
		High	22.92	-0.80	22.12	30.00

LTE Band 5

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4MHz	QPSK	RB1#0	23.82	23.85	23.86
		RB1#3	24.04	24.00	24.11
		RB1#5	23.86	23.84	23.84
		RB3#0	23.90	23.88	23.85
		RB3#3	23.93	23.85	23.88
		RB6#0	22.96	22.97	22.99
	16QAM	RB1#0	22.89	22.95	22.81
		RB1#3	23.05	23.11	23.01
		RB1#5	22.89	22.98	22.85
		RB3#0	23.11	22.94	22.95
		RB3#3	23.22	22.94	22.94
		RB6#0	21.97	21.94	21.84
3MHz	QPSK	RB1#0	23.90	23.93	23.99
		RB1#8	23.91	23.87	23.98
		RB1#14	23.92	23.93	23.94
		RB6#0	22.91	22.94	22.93
		RB6#9	23.00	22.92	22.96
		RB15#0	22.97	22.98	22.94
	16QAM	RB1#0	23.48	23.05	22.95
		RB1#8	23.49	23.06	22.88
		RB1#14	23.49	23.06	22.91
		RB6#0	21.94	21.89	21.82
		RB6#9	21.97	21.93	21.79
		RB15#0	22.01	21.87	21.91
5MHz	QPSK	RB1#0	23.82	23.82	23.85
		RB1#13	23.97	23.91	23.97
		RB1#24	23.87	23.82	23.82
		RB15#0	23.03	22.91	22.91
		RB15#10	23.02	22.96	23.01
		RB25#0	23.00	22.92	22.92
	16QAM	RB1#0	22.76	23.08	22.95
		RB1#13	22.89	23.20	22.96
		RB1#24	22.81	23.16	22.86
		RB15#0	22.08	21.89	21.92
		RB15#10	22.03	21.92	21.99
		RB25#0	22.05	21.89	21.89
10MHz	QPSK	RB1#0	23.84	23.91	23.88
		RB1#25	24.05	24.00	24.09
		RB1#49	23.87	23.92	23.93
		RB25#0	23.10	22.92	23.10
		RB25#25	23.09	22.96	23.08
		RB50#0	23.09	22.95	23.11
	16QAM	RB1#0	23.43	23.06	22.92
		RB1#25	23.58	23.19	23.09
		RB1#49	23.43	23.11	22.90
		RB25#0	22.10	21.89	22.18
		RB25#25	22.12	21.94	22.20
		RB50#0	22.10	21.93	22.11

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	10 MHz	4.58	3.39	4.32	13
	50 RB		4.72	4.58	4.81	13
16QAM	1 RB	10 MHz	5.19	4.32	5.36	13
	50 RB		5.68	5.74	5.74	13

ERP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Result (dBm)	Limit (dBm)
1.4MHz	QPSK	Low	24.04	-2.65	21.39	38.45
		Middle	24.00	-2.65	21.35	38.45
		High	24.11	-2.65	21.46	38.45
	16QAM	Low	23.22	-2.65	20.57	38.45
		Middle	23.11	-2.65	20.46	38.45
		High	23.01	-2.65	20.36	38.45
3MHz	QPSK	Low	23.92	-2.65	21.27	38.45
		Middle	23.93	-2.65	21.28	38.45
		High	23.99	-2.65	21.34	38.45
	16QAM	Low	23.49	-2.65	20.84	38.45
		Middle	23.06	-2.65	20.41	38.45
		High	22.95	-2.65	20.30	38.45
5MHz	QPSK	Low	23.97	-2.65	21.32	38.45
		Middle	23.91	-2.65	21.26	38.45
		High	23.97	-2.65	21.32	38.45
	16QAM	Low	22.89	-2.65	20.24	38.45
		Middle	23.20	-2.65	20.55	38.45
		High	22.96	-2.65	20.31	38.45
10MHz	QPSK	Low	24.05	-2.65	21.40	38.45
		Middle	24.00	-2.65	21.35	38.45
		High	24.09	-2.65	21.44	38.45
	16QAM	Low	23.58	-2.65	20.93	38.45
		Middle	23.19	-2.65	20.54	38.45
		High	23.09	-2.65	20.44	38.45

LTE Band 7

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5 MHz	QPSK	RB1#0	23.04	22.96	23.00
		RB1#13	23.11	23.06	23.14
		RB1#24	23.01	22.94	23.05
		RB15#0	22.13	22.01	22.06
		RB15#10	22.06	21.98	22.16
		RB25#0	22.04	21.97	22.03
	16QAM	RB1#0	21.85	22.21	22.03
		RB1#13	21.96	22.32	22.13
		RB1#24	21.84	22.24	22.08
		RB15#0	21.11	21.01	21.07
		RB15#10	21.04	20.94	21.11
		RB25#0	21.06	20.94	21.04
10 MHz	QPSK	RB1#0	23.05	23.06	23.11
		RB1#25	23.16	23.16	23.23
		RB1#49	23.07	23.03	23.16
		RB25#0	22.26	22.09	22.01
		RB25#25	22.13	21.98	22.16
		RB50#0	22.15	22.04	22.11
	16QAM	RB1#0	22.60	22.07	22.07
		RB1#25	22.75	22.31	22.22
		RB1#49	22.58	22.09	22.08
		RB25#0	21.23	21.06	21.04
		RB25#25	21.13	20.97	21.23
		RB50#0	21.16	21.04	21.11
15 MHz	QPSK	RB1#0	22.99	23.01	23.04
		RB1#38	23.12	23.08	23.13
		RB1#74	22.96	22.97	23.14
		RB36#0	22.21	22.12	22.10
		RB36#39	22.17	22.04	22.23
		RB75#0	22.18	22.07	22.17
	16QAM	RB1#0	22.48	22.08	22.38
		RB1#38	22.63	22.17	22.48
		RB1#74	22.53	22.08	22.44
		RB36#0	21.19	21.11	21.09
		RB36#39	21.21	21.01	21.18
		RB75#0	21.16	21.02	21.10
20MHz	QPSK	RB1#0	22.84	22.81	22.79
		RB1#50	23.20	23.15	23.25
		RB1#99	22.82	22.87	22.85
		RB50#0	22.14	22.07	22.03
		RB50#50	22.23	21.90	22.24
		RB100#0	22.18	22.00	22.17
	16QAM	RB1#0	22.09	21.99	22.33
		RB1#50	22.44	22.40	22.75
		RB1#99	22.10	22.01	22.34
		RB50#0	21.13	21.05	20.97
		RB50#50	21.20	20.88	21.20
		RB100#0	21.15	20.98	21.15

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1RB	20 MHz	4.49	4.72	4.99	13
	100RB		5.10	4.96	4.87	13
16QAM	1RB	20 MHz	4.96	5.80	6.00	13
	100RB		6.14	5.97	6.03	13

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Result (dBm)	Limit (dBm)
5MHz	QPSK	Low	23.11	1.10	24.21	33.00
		Middle	23.06	1.10	24.16	33.00
		High	23.14	1.10	24.24	33.00
	16QAM	Low	21.96	1.10	23.06	33.00
		Middle	22.32	1.10	23.42	33.00
		High	22.13	1.10	23.23	33.00
10MHz	QPSK	Low	23.16	1.10	24.26	33.00
		Middle	23.16	1.10	24.26	33.00
		High	23.23	1.10	24.33	33.00
	16QAM	Low	22.75	1.10	23.85	33.00
		Middle	22.31	1.10	23.41	33.00
		High	22.22	1.10	23.32	33.00
15MHz	QPSK	Low	23.12	1.10	24.22	33.00
		Middle	23.08	1.10	24.18	33.00
		High	23.14	1.10	24.24	33.00
	16QAM	Low	22.63	1.10	23.73	33.00
		Middle	22.17	1.10	23.27	33.00
		High	22.48	1.10	23.58	33.00
20MHz	QPSK	Low	23.20	1.10	24.30	33.00
		Middle	23.15	1.10	24.25	33.00
		High	23.25	1.10	24.35	33.00
	16QAM	Low	22.44	1.10	23.54	33.00
		Middle	22.40	1.10	23.50	33.00
		High	22.75	1.10	23.85	33.00

LTE Band 12

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4MHz	QPSK	RB1#0	23.62	23.69	23.65
		RB1#3	23.85	23.86	23.98
		RB1#5	23.64	23.74	23.68
		RB3#0	23.75	23.78	23.73
		RB3#3	23.73	23.79	23.78
		RB6#0	22.63	22.76	22.70
	16QAM	RB1#0	22.65	22.79	22.63
		RB1#3	22.76	23.03	22.80
		RB1#5	22.63	22.81	22.67
		RB3#0	22.94	22.79	22.87
		RB3#3	22.97	22.83	22.85
		RB6#0	21.74	21.81	21.69
3MHz	QPSK	RB1#0	23.69	23.78	23.78
		RB1#8	23.67	23.74	23.74
		RB1#14	23.69	23.79	23.78
		RB6#0	22.63	22.74	22.67
		RB6#9	22.67	22.72	22.69
		RB15#0	22.73	22.77	22.74
	16QAM	RB1#0	23.26	22.93	22.75
		RB1#8	23.23	22.92	22.74
		RB1#14	23.22	22.90	22.71
		RB6#0	21.79	21.79	21.69
		RB6#9	21.78	21.82	21.69
		RB15#0	21.80	21.80	21.84
5MHz	QPSK	RB1#0	23.61	23.68	23.60
		RB1#13	23.74	23.81	23.82
		RB1#24	23.70	23.70	23.68
		RB15#0	22.72	22.83	22.86
		RB15#10	22.70	22.89	22.69
		RB25#0	22.65	22.84	22.74
	16QAM	RB1#0	22.52	22.98	22.66
		RB1#13	22.64	23.11	22.83
		RB1#24	22.57	23.00	22.71
		RB15#0	21.84	21.87	21.96
		RB15#10	21.79	21.95	21.75
		RB25#0	21.80	21.90	21.82
10MHz	QPSK	RB1#0	23.62	23.67	23.71
		RB1#25	23.85	23.92	23.86
		RB1#49	23.75	23.75	23.77
		RB25#0	22.85	22.90	22.63
		RB25#25	22.83	22.94	22.59
		RB50#0	22.83	22.90	22.64
	16QAM	RB1#0	23.20	22.80	22.73
		RB1#25	23.46	22.98	22.84
		RB1#49	23.35	22.88	22.75
		RB25#0	21.99	21.99	21.79
		RB25#25	21.95	22.04	21.79
		RB50#0	21.91	21.98	21.72

PAR, Band 12

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	10 MHz	4.87	4.64	4.99	13
	50 RB		5.28	5.45	5.30	13
16QAM	1 RB	10 MHz	5.80	5.80	5.91	13
	50 RB		6.38	6.38	6.29	13

ERP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Result (dBm)	Limit (dBm)
1.4MHz	QPSK	Low	23.85	-2.55	21.30	34.77
		Middle	23.86	-2.55	21.31	34.77
		High	23.98	-2.55	21.43	34.77
	16QAM	Low	22.97	-2.55	20.42	34.77
		Middle	23.03	-2.55	20.48	34.77
		High	22.87	-2.55	20.32	34.77
3MHz	QPSK	Low	23.69	-2.55	21.14	34.77
		Middle	23.79	-2.55	21.24	34.77
		High	23.78	-2.55	21.23	34.77
	16QAM	Low	23.26	-2.55	20.71	34.77
		Middle	22.93	-2.55	20.38	34.77
		High	22.75	-2.55	20.20	34.77
5MHz	QPSK	Low	23.74	-2.55	21.19	34.77
		Middle	23.81	-2.55	21.26	34.77
		High	23.82	-2.55	21.27	34.77
	16QAM	Low	22.64	-2.55	20.09	34.77
		Middle	23.11	-2.55	20.56	34.77
		High	22.83	-2.55	20.28	34.77
10MHz	QPSK	Low	23.85	-2.55	21.30	34.77
		Middle	23.92	-2.55	21.37	34.77
		High	23.86	-2.55	21.31	34.77
	16QAM	Low	23.46	-2.55	20.91	34.77
		Middle	22.98	-2.55	20.43	34.77
		High	22.84	-2.55	20.29	34.77

LTE Band 13

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5 MHz	QPSK	RB1#0	23.66	23.63	23.59
		RB1#13	23.76	23.74	23.79
		RB1#24	23.65	23.65	23.70
		RB15#0	22.76	22.71	22.75
		RB15#10	22.73	22.74	22.77
		RB25#0	22.70	22.70	22.73
	16QAM	RB1#0	22.47	22.84	22.62
		RB1#13	22.60	23.01	22.75
		RB1#24	22.52	22.84	22.65
		RB15#0	21.79	21.71	21.74
		RB15#10	21.75	21.71	21.76
		RB25#0	21.77	21.72	21.73
10 MHz	QPSK	RB1#0	/	23.72	/
		RB1#25	/	23.88	/
		RB1#49	/	23.82	/
		RB25#0	/	22.81	/
		RB25#25	/	22.85	/
		RB50#0	/	22.84	/
	16QAM	RB1#0	/	23.15	/
		RB1#25	/	23.42	/
		RB1#49	/	23.22	/
		RB25#0	/	21.84	/
		RB25#25	/	21.86	/
		RB50#0	/	21.82	/

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	10 MHz	/	3.51	/	13
	50RB		/	4.67	/	13
16QAM	1 RB	10 MHz	/	4.29	/	13
	50 RB		/	5.65	/	13

ERP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Result (dBm)	Limit (dBm)
5MHz	QPSK	Low	23.76	-2.60	21.16	34.77
		Middle	23.74	-2.60	21.14	34.77
		High	23.79	-2.60	21.19	34.77
	16QAM	Low	22.60	-2.60	20.00	34.77
		Middle	23.01	-2.60	20.41	34.77
		High	22.75	-2.60	20.15	34.77
10MHz	QPSK	Middle	23.88	-2.60	21.28	34.77
	16QAM	Middle	23.42	-2.60	20.82	34.77

LTE Band 17

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5MHz	QPSK	RB1#0	23.59	23.53	23.50
		RB1#13	23.71	23.66	23.70
		RB1#24	23.56	23.58	23.57
		RB15#0	22.76	22.58	22.79
		RB15#10	22.77	22.68	22.59
		RB25#0	22.72	22.56	22.62
	16QAM	RB1#0	22.47	22.79	22.58
		RB1#13	22.61	22.94	22.75
		RB1#24	22.47	22.84	22.64
		RB15#0	21.87	21.59	21.88
		RB15#10	21.85	21.74	21.67
		RB25#0	21.81	21.65	21.74
10MHz	QPSK	RB1#0	23.60	23.61	23.60
		RB1#25	23.74	23.74	23.79
		RB1#49	23.65	23.70	23.71
		RB25#0	22.71	22.59	22.51
		RB25#25	22.71	22.63	22.55
		RB50#0	22.70	22.63	22.52
	16QAM	RB1#0	23.22	22.75	22.60
		RB1#25	23.30	22.87	22.78
		RB1#49	23.23	22.81	22.69
		RB25#0	21.81	21.71	21.68
		RB25#25	21.83	21.74	21.69
		RB50#0	21.76	21.70	21.62

PAR:

Modulation	RB	Channel Bandwidth	Low channel (dB)	Middle channel (dB)	High channel (dB)	Limit (dB)
QPSK	1RB	10MHz	5.25	5.54	5.10	13
	50RB		5.48	5.51	5.33	
16QAM	1RB	10MHz	5.65	6.41	6.23	
	50RB		6.38	6.32	6.43	

ERP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Result (dBm)	Limit (dBm)
5MHz	QPSK	Low	23.71	-2.55	21.16	34.77
		Middle	23.66	-2.55	21.11	34.77
		High	23.70	-2.55	21.15	34.77
	16QAM	Low	22.61	-2.55	20.06	34.77
		Middle	22.94	-2.55	20.39	34.77
		High	22.75	-2.55	20.2	34.77
10MHz	QPSK	Low	23.74	-2.55	21.19	34.77
		Middle	23.74	-2.55	21.19	34.77
		High	23.79	-2.55	21.24	34.77
	16QAM	Low	23.30	-2.55	20.75	34.77
		Middle	22.87	-2.55	20.32	34.77
		High	22.78	-2.55	20.23	34.77

LTE Band 26

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4MHz	QPSK	RB1#0	23.74	23.59	23.66
		RB1#3	23.90	23.81	23.76
		RB1#5	23.66	23.59	23.60
		RB3#0	23.74	23.67	23.63
		RB3#3	23.69	23.65	23.67
		RB6#0	22.79	22.73	22.73
	16QAM	RB1#0	22.67	22.70	22.60
		RB1#3	22.81	22.93	22.80
		RB1#5	22.62	22.73	22.63
		RB3#0	22.91	22.68	22.76
		RB3#3	22.91	22.69	22.74
		RB6#0	21.73	21.71	21.61
3MHz	QPSK	RB1#0	23.75	23.62	23.67
		RB1#8	23.66	23.59	23.64
		RB1#14	23.63	23.60	23.64
		RB6#0	22.68	22.63	22.58
		RB6#9	22.71	22.62	22.64
		RB15#0	22.71	22.67	22.64
	16QAM	RB1#0	23.14	22.83	22.63
		RB1#8	23.12	22.76	22.60
		RB1#14	23.13	22.74	22.61
		RB6#0	21.67	21.57	21.49
		RB6#9	21.68	21.64	21.53
		RB15#0	21.70	21.61	21.65
5MHz	QPSK	RB1#0	23.62	23.52	23.50
		RB1#13	23.65	23.60	23.61
		RB1#24	23.60	23.54	23.55
		RB15#0	22.64	22.59	22.61
		RB15#10	22.76	22.71	22.69
		RB25#0	22.64	22.66	22.64
	16QAM	RB1#0	22.46	22.85	22.62
		RB1#13	22.54	22.91	22.63
		RB1#24	22.51	22.82	22.60
		RB15#0	21.65	21.57	21.59
		RB15#10	21.74	21.68	21.69
		RB25#0	21.68	21.66	21.65
10MHz	QPSK	RB1#0	23.69	23.57	23.54
		RB1#25	23.80	23.76	23.82
		RB1#49	23.63	23.57	23.66
		RB25#0	22.65	22.69	22.88
		RB25#25	22.79	22.77	22.82
		RB50#0	22.72	22.74	22.88
	16QAM	RB1#0	23.14	22.75	22.61
		RB1#25	23.32	22.99	22.82
		RB1#49	23.26	22.70	22.63
		RB25#0	21.66	21.69	21.95
		RB25#25	21.84	21.82	21.92
		RB50#0	21.66	21.72	21.88

15MHz	QPSK	RB1#0	23.59	23.52	23.48
		RB1#38	23.64	23.65	23.63
		RB1#74	23.55	23.52	23.59
		RB36#0	22.71	22.71	22.74
		RB36#39	22.76	22.79	22.83
		RB75#0	22.76	22.81	22.86
	16QAM	RB1#0	23.08	22.67	22.88
		RB1#38	23.22	22.79	23.05
		RB1#74	23.15	22.70	22.89
		RB36#0	21.67	21.67	21.73
		RB36#39	21.75	21.77	21.81
		RB75#0	21.71	21.73	21.76

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	15 MHz	3.33	4.35	4.81	13
	75 RB		4.64	4.75	4.96	13
16QAM	1 RB	15 MHz	4.26	5.16	5.68	13
	75 RB		5.74	5.68	5.88	13

ERP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Result (dBm)	Limit (dBm)
1.4MHz	QPSK	Low	23.90	-2.65	21.25	38.45
		Middle	23.81	-2.65	21.16	38.45
		High	23.76	-2.65	21.11	38.45
	16QAM	Low	22.91	-2.65	20.26	38.45
		Middle	22.93	-2.65	20.28	38.45
		High	22.80	-2.65	20.15	38.45
3MHz	QPSK	Low	23.75	-2.65	21.1	38.45
		Middle	23.62	-2.65	20.97	38.45
		High	23.67	-2.65	21.02	38.45
	16QAM	Low	23.14	-2.65	20.49	38.45
		Middle	22.83	-2.65	20.18	38.45
		High	22.63	-2.65	19.98	38.45
5MHz	QPSK	Low	23.65	-2.65	21	38.45
		Middle	23.60	-2.65	20.95	38.45
		High	23.61	-2.65	20.96	38.45
	16QAM	Low	22.54	-2.65	19.89	38.45
		Middle	22.91	-2.65	20.26	38.45
		High	22.63	-2.65	19.98	38.45
10MHz	QPSK	Low	23.80	-2.65	21.15	38.45
		Middle	23.76	-2.65	21.11	38.45
		High	23.82	-2.65	21.17	38.45
	16QAM	Low	23.32	-2.65	20.67	38.45
		Middle	22.99	-2.65	20.34	38.45
		High	22.82	-2.65	20.17	38.45
15MHz	QPSK	Low	23.64	-2.65	20.99	38.45
		Middle	23.65	-2.65	21	38.45
		High	23.63	-2.65	20.98	38.45
	16QAM	Low	23.22	-2.65	20.57	38.45
		Middle	22.79	-2.65	20.14	38.45
		High	23.05	-2.65	20.4	38.45

LTE Band 38

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5MHz	QPSK	RB1#0	22.13	22.64	22.60
		RB1#13	22.15	22.65	22.65
		RB1#24	22.05	22.57	22.61
		RB15#0	21.08	21.58	21.60
		RB15#10	21.09	21.62	21.57
		RB25#0	21.12	21.62	21.63
	16QAM	RB1#0	21.09	21.60	21.75
		RB1#13	21.63	21.66	21.83
		RB1#24	21.54	21.57	21.79
		RB15#0	20.50	20.56	20.59
		RB15#10	20.47	20.58	20.64
		RB25#0	20.58	20.60	20.52
10MHz	QPSK	RB1#0	22.72	22.72	22.73
		RB1#25	22.93	22.91	22.98
		RB1#49	22.69	22.66	22.68
		RB25#0	21.66	21.69	21.69
		RB25#25	21.73	21.71	21.72
		RB50#0	21.68	21.70	21.74
	16QAM	RB1#0	21.86	21.62	21.73
		RB1#25	21.97	21.82	21.99
		RB1#49	21.82	21.56	21.72
		RB25#0	20.62	20.67	20.68
		RB25#25	20.64	20.71	20.70
		RB50#0	20.65	20.66	20.70
15MHz	QPSK	RB1#0	22.60	22.65	22.63
		RB1#38	22.70	22.75	22.75
		RB1#74	22.61	22.63	22.62
		RB36#0	21.69	21.66	21.67
		RB36#39	21.71	21.70	21.78
		RB75#0	21.72	21.73	21.69
	16QAM	RB1#0	21.77	21.55	21.76
		RB1#38	21.83	21.62	21.89
		RB1#74	21.73	21.51	21.77
		RB36#0	20.65	20.62	20.69
		RB36#39	20.65	20.68	20.75
		RB75#0	20.64	20.63	20.64
20MHz	QPSK	RB1#0	22.46	22.42	22.50
		RB1#50	22.94	22.90	23.02
		RB1#99	22.45	22.39	22.52
		RB50#0	21.63	21.63	21.60
		RB50#50	21.72	21.71	21.72
		RB100#0	21.69	21.66	21.65
	16QAM	RB1#0	21.49	21.37	21.67
		RB1#50	21.94	21.86	22.14
		RB1#99	21.47	21.36	21.65
		RB50#0	20.57	20.65	20.57
		RB50#50	20.70	20.74	20.69
		RB100#0	20.63	20.63	20.61

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1RB	20MHz	7.28	2.72	0.52	13
	100RB		7.25	4.81	3.74	13
16QAM	1RB	20MHz	2.49	3.54	5.22	13
	100RB		5.45	3.16	3.88	13

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Result (dBm)	Limit (dBm)
5MHz	QPSK	Low	22.15	1.20	23.35	33.00
		Middle	22.65	1.20	23.85	33.00
		High	22.65	1.20	23.85	33.00
	16QAM	Low	21.63	1.20	22.83	33.00
		Middle	21.66	1.20	22.86	33.00
		High	21.83	1.20	23.03	33.00
10MHz	QPSK	Low	22.93	1.20	24.13	33.00
		Middle	22.91	1.20	24.11	33.00
		High	22.98	1.20	24.18	33.00
	16QAM	Low	21.97	1.20	23.17	33.00
		Middle	21.82	1.20	23.02	33.00
		High	21.99	1.20	23.19	33.00
15MHz	QPSK	Low	22.70	1.20	23.90	33.00
		Middle	22.75	1.20	23.95	33.00
		High	22.75	1.20	23.95	33.00
	16QAM	Low	21.83	1.20	23.03	33.00
		Middle	21.62	1.20	22.82	33.00
		High	21.89	1.20	23.09	33.00
20MHz	QPSK	Low	22.94	1.20	24.14	33.00
		Middle	22.90	1.20	24.10	33.00
		High	23.02	1.20	24.22	33.00
	16QAM	Low	21.94	1.20	23.14	33.00
		Middle	21.86	1.20	23.06	33.00
		High	22.14	1.20	23.34	33.00

LTE Band 40 Lower

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5 MHz	QPSK	RB1#0	22.34	22.31	22.29
		RB1#13	22.46	22.46	22.47
		RB1#24	22.33	22.35	22.32
		RB15#0	21.33	21.30	21.31
		RB15#10	21.38	21.36	21.42
		RB25#0	21.34	21.35	21.33
	16QAM	RB1#0	21.34	21.52	21.29
		RB1#13	21.49	21.54	21.42
		RB1#24	21.34	21.55	21.29
		RB15#0	20.35	20.35	20.28
		RB15#10	20.45	20.44	20.35
		RB25#0	20.43	20.31	20.35
10 MHz	QPSK	RB1#0	/	22.40	/
		RB1#25	/	22.40	/
		RB1#49	/	22.38	/
		RB25#0	/	21.29	/
		RB25#25	/	21.43	/
		RB50#0	/	21.37	/
	16QAM	RB1#0	/	21.56	/
		RB1#25	/	21.82	/
		RB1#49	/	21.57	/
		RB25#0	/	20.29	/
		RB25#25	/	20.46	/
		RB50#0	/	20.35	/

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Result (dBm)	Limit (dBm)
5MHz	QPSK	Low	22.46	1.50	23.96	24.00
		Middle	22.46	1.50	23.96	24.00
		High	22.47	1.50	23.97	24.00
	16QAM	Low	21.49	1.50	22.99	24.00
		Middle	21.55	1.50	23.05	24.00
		High	21.42	1.50	22.92	24.00
10MHz	QPSK	Middle	22.4	1.50	23.9	24.00
	16QAM	Middle	21.82	1.50	23.32	24.00

Note: the device is a mobile station. The output power meets the PSD limit of 5MHz, the PSD test is not necessary.

Duty Cycle

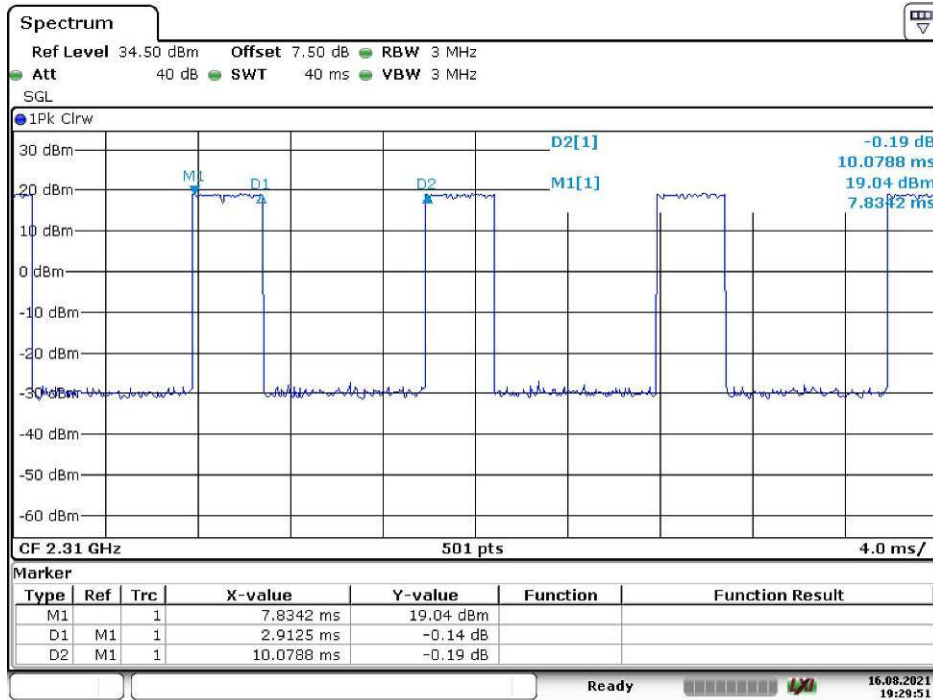
Test Modulation	Test Bandwidth	Ton (ms)	Total (ms)	Duty Cycle (%)	Limit (%)
QPSK	5M	2.913	10.079	28.90	38
	10M	2.877	9.913	29.02	
16-QAM	5M	3.037	9.999	30.37	
	10M	2.957	9.999	29.57	

Note: EUT setup is as following:

Uplink Downlink configuration	Subframe number									
	0	1	2	3	4	5	6	7	8	9
3	D	S	U	U	U	D	D	D	D	D

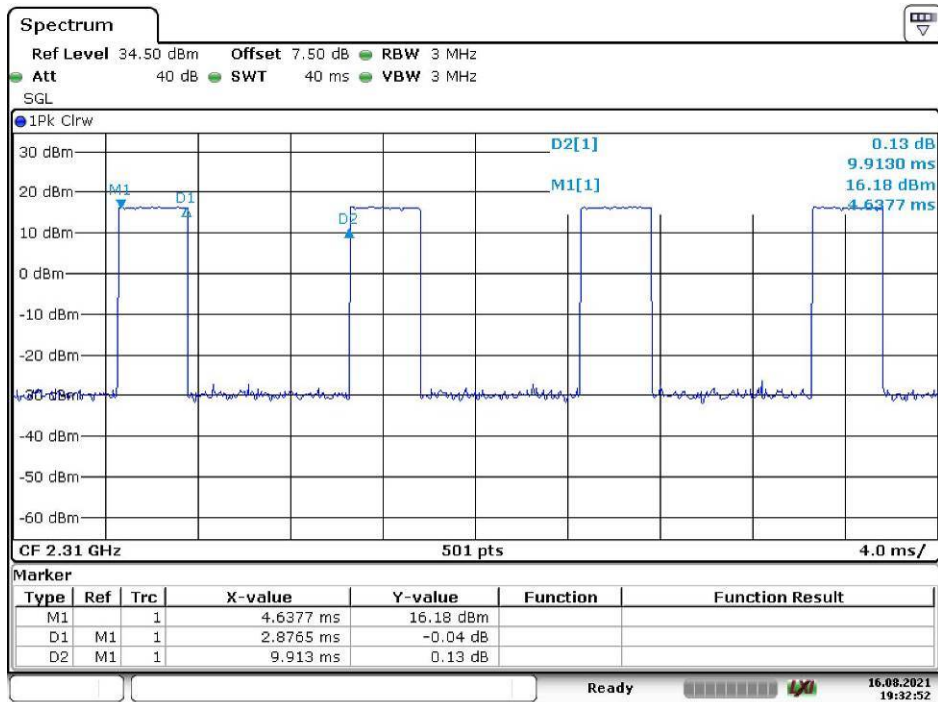
Duty Cycle:

QPSK, 5MHz



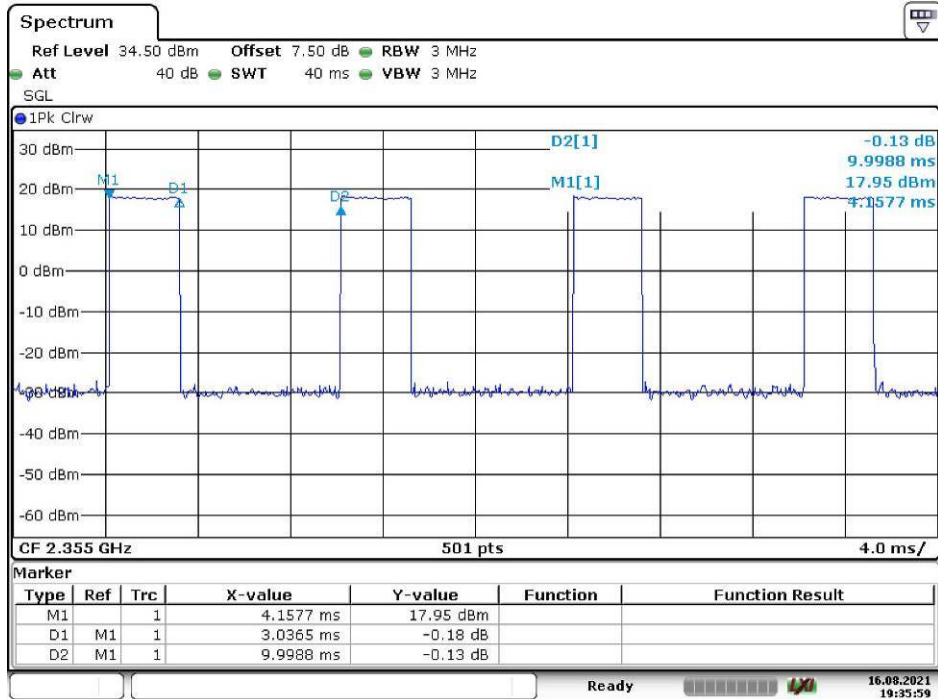
Date: 16.AUG.2021 19:29:51

QPSK, 10MHz



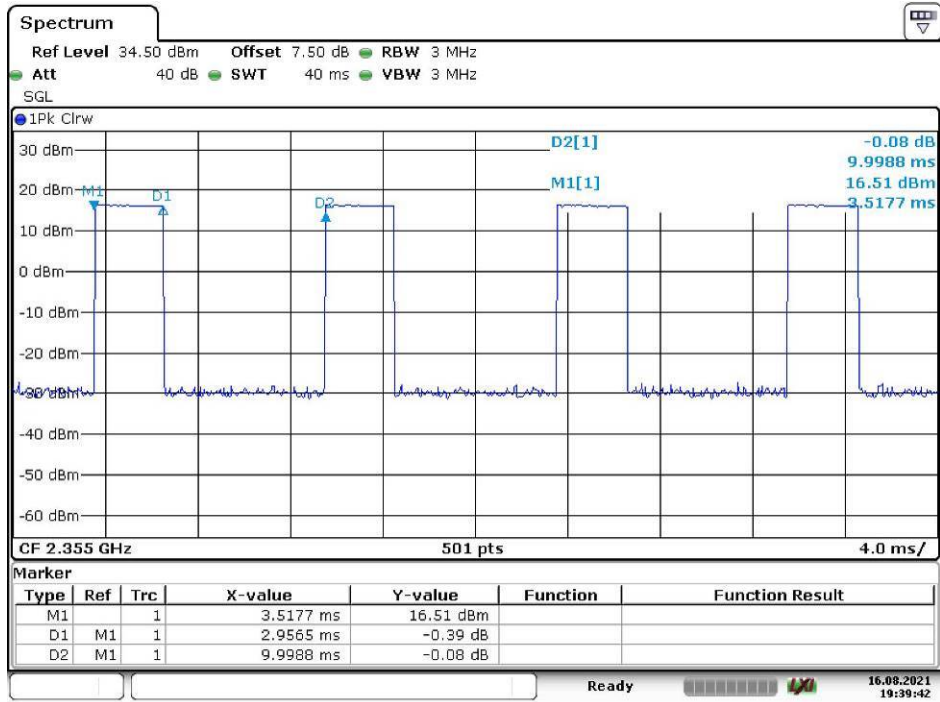
Date: 16.AUG.2021 19:32:52

16-QAM, 5MHz



Date: 16.AUG.2021 19:35:59

16-QAM, 10MHz



Date: 16.AUG.2021 19:39:42

LTE Band 40 Upper

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5 MHz	QPSK	RB1#0	22.35	22.34	22.32
		RB1#13	22.46	22.46	22.43
		RB1#24	22.35	22.31	22.35
		RB15#0	21.37	21.35	21.34
		RB15#10	21.37	21.35	21.34
		RB25#0	21.33	21.33	21.32
	16QAM	RB1#0	21.33	21.46	21.26
		RB1#13	21.46	21.61	21.38
		RB1#24	21.29	21.47	21.28
		RB15#0	20.36	20.36	20.28
		RB15#10	20.36	20.35	20.30
		RB25#0	20.36	20.29	20.32
10 MHz	QPSK	RB1#0	/	22.42	/
		RB1#25	/	22.47	/
		RB1#49	/	22.41	/
		RB25#0	/	21.39	/
		RB25#25	/	21.42	/
		RB50#0	/	21.38	/
	16QAM	RB1#0	/	21.53	/
		RB1#25	/	21.80	/
		RB1#49	/	21.53	/
		RB25#0	/	20.35	/
		RB25#25	/	20.40	/
		RB50#0	/	20.36	/

Note: the device is a mobile station. The output power meets the PSD limit of 5MHz, the PSD test is not necessary.

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm/5MHz)	Antenna Gain (dBd)	Result (dBm/5MHz)	Limit (dBm/5MHz)
5MHz	QPSK	Low	22.46	1.50	23.96	24.00
		Middle	22.46	1.50	23.96	24.00
		High	22.43	1.50	23.93	24.00
	16QAM	Low	21.46	1.50	22.96	24.00
		Middle	21.61	1.50	23.11	24.00
		High	21.38	1.50	22.88	24.00
10MHz	QPSK	Middle	22.47	1.50	23.97	24.00
	16QAM	Middle	21.80	1.50	23.30	24.00

Duty Cycle

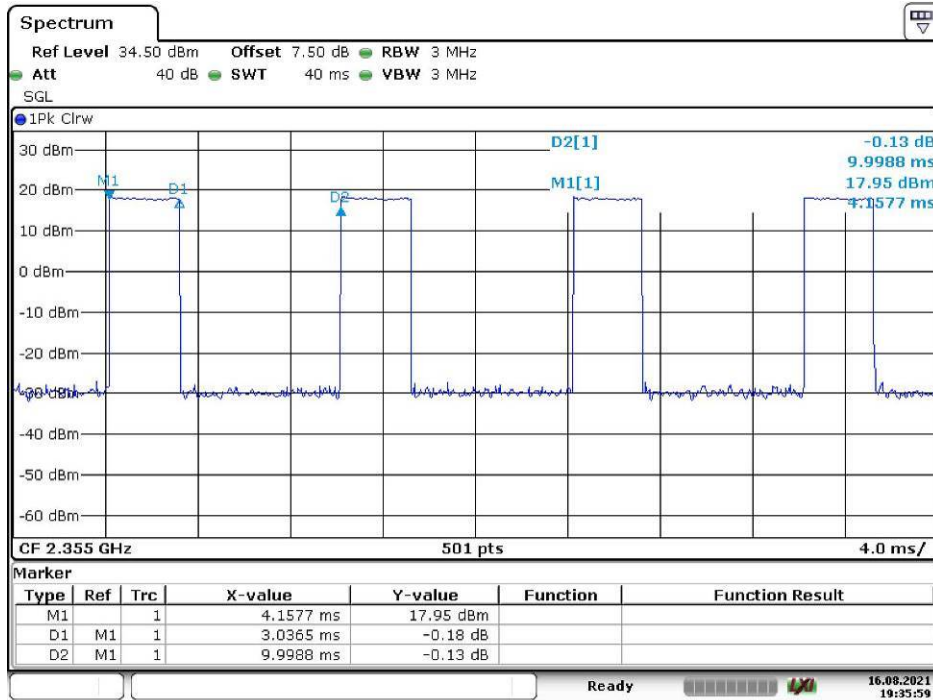
Test Modulation	Test Bandwidth	Ton (ms)	Total (ms)	Duty Cycle (%)	Limit (%)
QPSK	5M	3.037	9.999	30.37	38
	10M	2.957	9.999	29.57	
16-QAM	5M	3.037	10.079	30.13	
	10M	3.117	10.077	30.93	

Note: EUT setup is as following:

Uplink Downlink configuration	Subframe number									
	0	1	2	3	4	5	6	7	8	9
3	D	S	U	U	U	D	D	D	D	D

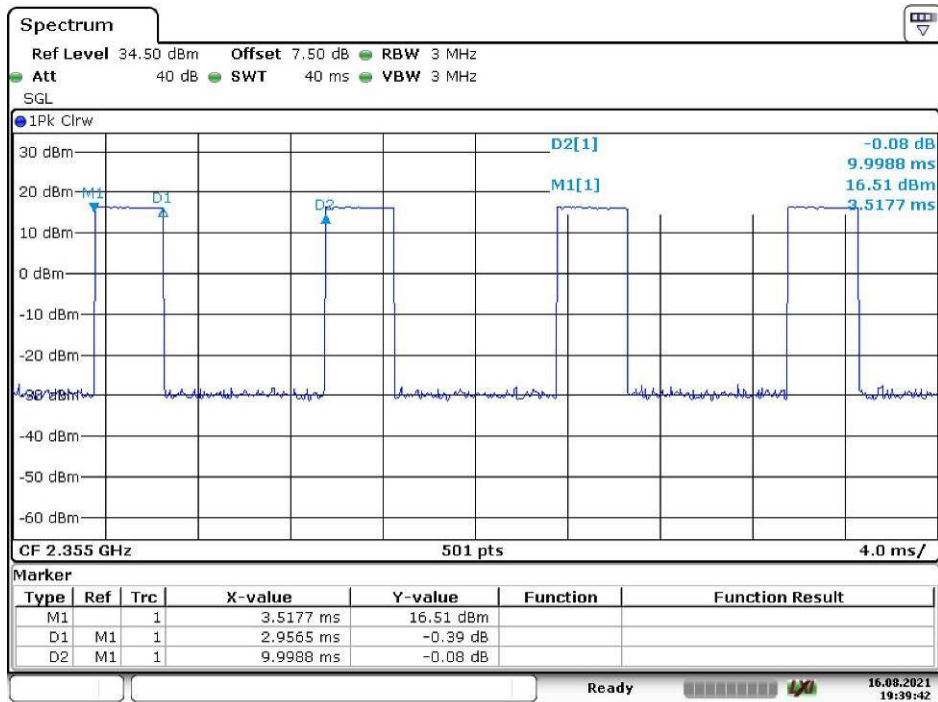
Duty Cycle:

QPSK, 5MHz



Date: 16.AUG.2021 19:35:59

QPSK, 10MHz



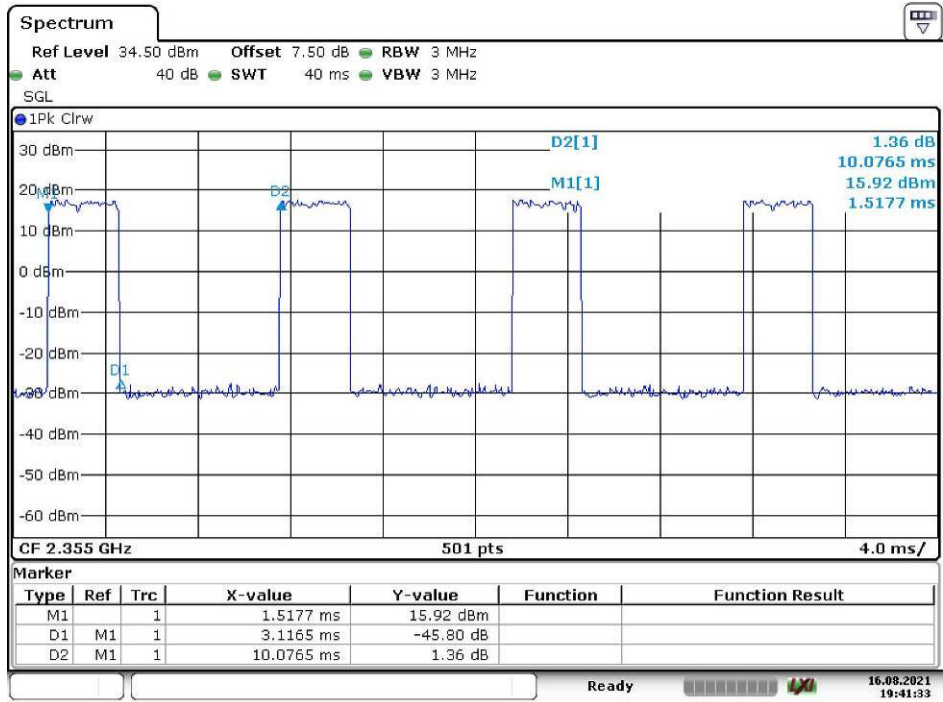
Date: 16.AUG.2021 19:39:42

16-QAM, 5MHz



Date: 16.AUG.2021 19:37:12

16-QAM, 10MHz



Date: 16.AUG.2021 19:41:33

LTE Band 41

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5 MHz	QPSK	RB1#0	24.44	22.39	22.34
		RB1#13	24.54	22.54	22.52
		RB1#24	24.38	22.40	22.37
		RB15#0	23.48	21.44	21.40
		RB15#10	21.39	21.52	21.43
		RB25#0	21.37	21.46	21.41
	16QAM	RB1#0	21.38	21.60	21.30
		RB1#13	21.49	21.72	21.46
		RB1#24	21.32	21.57	21.35
		RB15#0	20.41	20.39	20.31
		RB15#10	20.32	20.58	20.37
		RB25#0	20.39	20.41	20.38
10 MHz	QPSK	RB1#0	22.40	22.50	22.50
		RB1#25	22.64	22.79	22.76
		RB1#49	22.36	22.50	22.47
		RB25#0	21.46	21.48	21.35
		RB25#25	21.40	21.57	21.49
		RB50#0	21.44	21.53	21.42
	16QAM	RB1#0	21.59	21.41	21.43
		RB1#25	21.77	21.66	21.73
		RB1#49	21.53	21.37	21.49
		RB25#0	20.39	20.45	20.37
		RB25#25	20.34	20.56	20.45
		RB50#0	20.37	20.52	20.39
15 MHz	QPSK	RB1#0	22.38	22.51	22.46
		RB1#38	22.45	22.56	22.60
		RB1#74	22.38	22.46	22.46
		RB36#0	21.49	21.52	21.37
		RB36#39	21.48	21.49	21.59
		RB75#0	21.52	21.65	21.54
	16QAM	RB1#0	21.51	21.37	21.58
		RB1#38	21.56	21.45	21.67
		RB1#74	21.47	21.31	21.56
		RB36#0	20.46	20.47	20.50
		RB36#39	20.43	20.50	20.61
		RB75#0	20.39	20.58	20.47
20MHz	QPSK	RB1#0	22.28	22.29	22.33
		RB1#50	22.79	22.76	22.80
		RB1#99	22.30	22.27	22.33
		RB50#0	21.50	21.41	21.43
		RB50#50	21.49	21.60	21.54
		RB100#0	21.50	21.53	21.52
	16QAM	RB1#0	21.30	21.19	21.53
		RB1#50	21.78	21.71	21.94
		RB1#99	21.31	21.18	21.48
		RB50#0	20.47	20.51	20.45
		RB50#50	20.44	20.56	20.54
		RB100#0	20.44	20.52	20.48

PAR:

Modulation	RB	Channel Bandwidth	Low channel (dB)	Middle channel (dB)	High channel (dB)	Limit (dB)
QPSK	1RB	20MHz	5.71	5.36	6.96	13
	100RB		4.41	5.91	5.04	
16QAM	1RB	20MHz	1.04	5.91	4.90	
	100RB		5.71	6.87	6.20	

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Result (dBm)	Limit (dBm)
5MHz	QPSK	Low	24.54	1.20	25.74	33.00
		Middle	22.54	1.20	23.74	33.00
		High	22.52	1.20	23.72	33.00
	16QAM	Low	21.49	1.20	22.69	33.00
		Middle	21.72	1.20	22.92	33.00
		High	21.46	1.20	22.66	33.00
10MHz	QPSK	Low	22.64	1.20	23.84	33.00
		Middle	22.79	1.20	23.99	33.00
		High	22.76	1.20	23.96	33.00
	16QAM	Low	21.77	1.20	22.97	33.00
		Middle	21.66	1.20	22.86	33.00
		High	21.73	1.20	22.93	33.00
15MHz	QPSK	Low	22.45	1.20	23.65	33.00
		Middle	22.56	1.20	23.76	33.00
		High	22.60	1.20	23.80	33.00
	16QAM	Low	21.56	1.20	22.76	33.00
		Middle	21.45	1.20	22.65	33.00
		High	21.67	1.20	22.87	33.00
20MHz	QPSK	Low	22.79	1.20	23.99	33.00
		Middle	22.76	1.20	23.96	33.00
		High	22.80	1.20	24.00	33.00
	16QAM	Low	21.78	1.20	22.98	33.00
		Middle	21.71	1.20	22.91	33.00
		High	21.94	1.20	23.14	33.00

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Result = Conducted Power + Antenna Gain
- 3) Antenna gain(dBd)= Antenna gain(dBi)-2.15

FCC §2.1049, §22.917, §22.905 & §24.238 & §27.53&§90.209- OCCUPIED BANDWIDTH

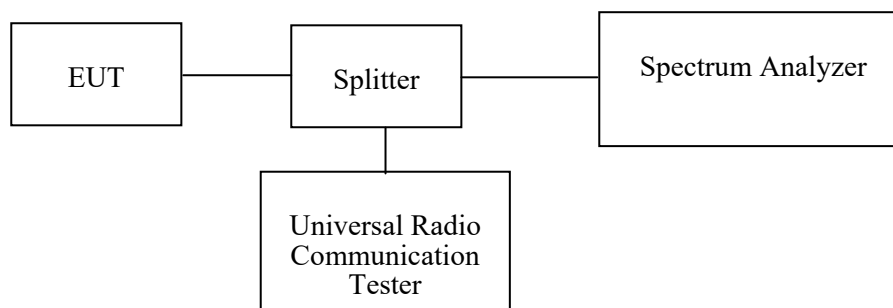
Applicable Standard

FCC §2.1049, §22.917, §22.905, §24.238, §27.53, §90.209

Test Procedure

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

The 26 dB & 99% bandwidth was recorded.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	Each time	N/A
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005011	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each time	N/A
Unknown	Attenuator	UNAT-3+	15529	Each time	N/A
E-Microwave	Two-way Splitter	ODP-1-6-2S	OE0120142	Each time	N/A

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

Test Data**Environmental Conditions**

Temperature:	24.4~28.3 °C
Relative Humidity:	46~50 %
ATM Pressure:	99.5kPa
Tester:	Lay Lei
Test Date:	2021-08-12~2021-08-26

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plots.

GPRS&EDGE:

Band	Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
		Low Channel	Middle Channel	High Channel	Low Channel	Middle Channel	High Channel
Cellular	GPRS	0.245	0.243	0.243	0.320	0.321	0.318
	EDGE	0.250	0.250	0.249	0.331	0.330	0.317
PCS	GPRS	0.243	0.245	0.245	0.320	0.317	0.315
	EDGE	0.250	0.249	0.253	0.321	0.331	0.329

WCDMA:

Band	Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
		Low Channel	Middle Channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA Band 2	Rel 99	4.197	4.197	4.182	4.761	4.761	4.776
	HSDPA	4.182	4.197	4.182	4.761	4.747	4.747
	HSUPA	4.197	4.197	4.197	4.747	4.761	4.776
WCDMA Band 4	Rel 99	4.168	4.168	4.153	4.718	4.718	4.732
	HSDPA	4.197	4.197	4.182	4.767	4.747	4.747
	HSUPA	4.197	4.211	4.182	4.747	4.805	4.718
WCDMA Band 5	Rel 99	4.182	4.211	4.182	4.732	4.747	4.761
	HSDPA	4.212	4.172	4.152	4.878	4.746	4.750
	HSUPA	4.212	4.192	4.192	4.808	4.759	4.773

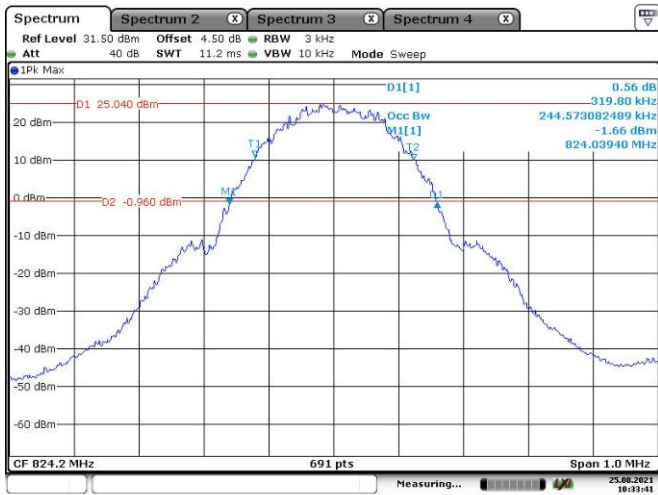
LTE Bands:

Band	Bandwidth (MHz)	Modulation mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
			Low Channel	Middle Channel	High Channel	Low Channel	Middle Channel	High Channel
LTE Band 2	1.4 MHz	QPSK	1.096	1.096	1.102	1.296	1.314	1.290
		16QAM	1.102	1.096	1.096	1.314	1.284	1.284
	3 MHz	QPSK	2.683	2.695	2.683	2.868	2.880	2.892
		16QAM	2.683	2.683	2.683	2.880	2.868	2.904
	5 MHz	QPSK	4.551	4.531	4.511	5.520	5.240	5.180
		16QAM	4.531	4.551	4.551	5.140	5.220	5.220
	10 MHz	QPSK	8.981	8.942	8.942	10.000	9.800	9.880
		16QAM	8.942	8.942	8.981	9.720	9.840	9.880
	15 MHz	QPSK	13.533	13.473	13.533	14.820	15.240	15.540
		16QAM	13.533	13.473	13.533	15.060	15.060	15.120
	20 MHz	QPSK	17.964	17.964	17.964	19.680	19.520	19.920
		16QAM	17.964	17.964	17.964	19.680	19.840	19.680
LTE Band 4	1.4 MHz	QPSK	1.096	1.096	1.108	1.290	1.296	1.320
		16QAM	1.096	1.102	1.102	1.290	1.320	1.302
	3 MHz	QPSK	2.695	2.695	2.683	2.892	2.880	2.892
		16QAM	2.683	2.683	2.683	2.892	2.880	2.880
	5 MHz	QPSK	4.551	4.531	4.511	5.440	5.660	5.160
		16QAM	4.511	4.551	4.551	5.220	5.960	5.200
	10 MHz	QPSK	8.981	8.942	8.942	9.960	9.920	10.040
		16QAM	8.981	8.981	8.942	9.800	9.880	9.920
	15 MHz	QPSK	13.593	13.473	13.533	15.300	15.180	15.240
		16QAM	13.593	13.533	13.533	15.120	15.180	15.120
	20 MHz	QPSK	17.964	17.964	17.964	19.60	19.68	20.00
		16QAM	18.044	17.964	17.964	19.76	19.76	19.68

Band	Bandwidth (MHz)	Modulation mode	99% Occupied Bandwidth(MHz)			26 dB Occupied Bandwidth(MHz)		
			Low Channel	Middle Channel	High Channel	Low Channel	Middle Channel	High Channel
LTE Band 5	1.4 MHz	QPSK	1.096	1.102	1.108	1.296	1.302	1.314
		16QAM	1.096	1.090	1.096	1.314	1.284	1.290
	3 MHz	QPSK	2.683	2.683	2.683	2.880	2.868	2.880
		16QAM	2.683	2.683	2.683	2.880	2.868	2.868
	5 MHz	QPSK	4.551	4.511	4.491	5.200	5.200	5.160
		16QAM	4.511	4.531	4.531	5.140	5.200	5.460
10 MHz	QPSK	9.022	8.942	8.981	10.160	9.720	9.960	
	16QAM	8.981	8.942	8.981	9.760	9.840	9.840	
LTE Band 7	5 MHz	QPSK	4.511	4.511	4.511	5.180	5.200	5.200
		16QAM	4.511	4.551	4.531	5.120	5.180	5.180
	10 MHz	QPSK	8.981	8.942	8.981	9.920	9.760	9.880
		16QAM	8.942	8.942	8.981	9.800	9.840	9.880
	15 MHz	QPSK	13.593	13.473	13.593	15.300	15.000	17.160
		16QAM	13.593	13.533	13.593	15.120	15.000	16.020
20 MHz	QPSK	18.044	17.964	18.044	19.680	19.440	20.000	
	16QAM	18.044	17.884	18.044	19.760	19.600	19.760	
LTE Band 12	1.4 MHz	QPSK	1.102	1.108	1.102	1.296	1.320	1.284
		16QAM	1.102	1.096	1.102	1.326	1.290	1.302
	3 MHz	QPSK	2.683	2.695	2.683	2.868	2.880	2.892
		16QAM	2.683	2.683	2.671	2.868	2.880	2.880
	5 MHz	QPSK	4.531	4.551	4.511	5.160	5.220	5.100
		16QAM	4.511	4.551	4.551	5.120	5.220	5.200
10 MHz	QPSK	8.942	8.942	8.942	9.880	9.920	9.960	
	16QAM	8.942	8.981	8.942	9.800	9.960	9.840	
LTE Band 13	5 MHz	QPSK	4.531	4.531	4.531	5.160	5.200	5.180
		16QAM	4.511	4.551	4.551	5.180	5.320	5.260
	10 MHz	QPSK	/	8.982	/	/	10.040	/
16QAM		/	8.942	/	/	9.800	/	
LTE Band 17	5 MHz	QPSK	4.551	4.531	4.511	5.200	5.160	5.100
		16QAM	4.531	4.531	4.511	5.140	5.200	5.200
	10 MHz	QPSK	9.022	8.981	8.942	10.000	9.880	9.920
		16QAM	8.981	8.981	8.942	9.880	9.840	9.880
LTE Band 26	1.4 MHz	QPSK	1.102	1.102	1.102	1.332	1.314	1.284
		16QAM	1.108	1.096	1.096	1.332	1.290	1.290
	3 MHz	QPSK	2.695	2.695	2.683	2.880	2.856	2.880
		16QAM	2.671	2.683	2.683	2.880	2.880	2.880
	5 MHz	QPSK	4.531	4.531	4.511	5.220	5.180	5.160
		16QAM	4.531	4.531	4.531	5.240	5.180	5.180
10 MHz	QPSK	8.981	8.981	8.981	9.880	9.880	9.920	
	16QAM	8.942	8.981	8.981	9.680	9.920	9.960	
15 MHz	QPSK	13.473	13.473	13.533	15.180	15.120	15.300	
	16QAM	13.473	13.533	13.533	15.060	15.060	15.120	
LTE Band 38	5 MHz	QPSK	4.511	4.531	4.511	5.140	5.220	5.300
		16QAM	4.511	4.511	4.531	5.380	5.160	5.160
	10 MHz	QPSK	8.981	8.981	8.942	9.920	9.960	9.840
		16QAM	8.981	8.942	8.981	9.680	9.800	9.800
	15 MHz	QPSK	13.593	13.473	13.533	15.420	15.480	15.720
		16QAM	13.593	13.593	13.593	16.200	15.840	16.080
20 MHz	QPSK	17.964	17.964	17.964	19.680	19.520	19.680	
	16QAM	17.964	17.964	17.964	19.840	20.400	19.840	

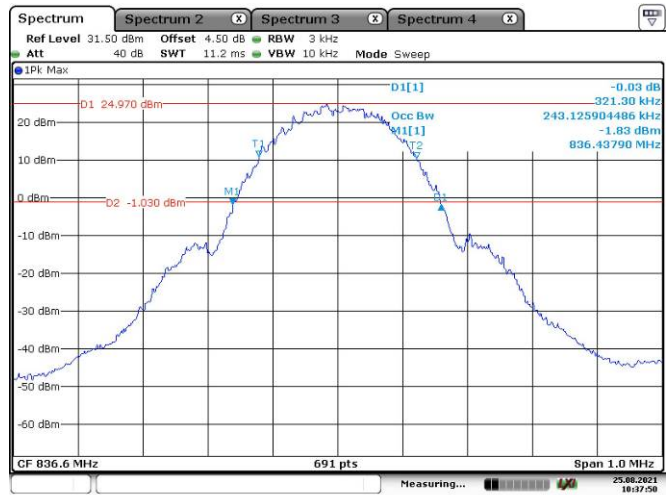
Band	Bandwidth (MHz)	Modulation mode	99% Occupied Bandwidth(MHz)			26 dB Occupied Bandwidth(MHz)		
			Low Channel	Middle Channel	High Channel	Low Channel	Middle Channel	High Channel
LTE Band 40 Lower	5 MHz	QPSK	4.511	4.531	4.511	5.160	5.200	5.340
		16QAM	4.512	4.531	4.511	5.140	5.140	5.160
	10 MHz	QPSK	/	8.982	/	/	9.840	/
		16QAM	/	8.942	/	/	9.640	/
LTE Band 40 Upper	5 MHz	QPSK	4.511	4.511	4.511	5.240	5.180	5.120
		16QAM	4.511	4.531	4.511	5.260	5.460	5.180
	10 MHz	QPSK	/	8.982	/	/	9.880	/
		16QAM	/	8.942	/	/	9.600	/
LTE Band 41	5 MHz	QPSK	4.531	4.531	4.511	5.080	5.380	5.160
		16QAM	4.511	4.551	4.511	5.200	5.380	5.240
	10 MHz	QPSK	8.981	8.981	8.942	9.840	9.920	9.800
		16QAM	8.981	8.942	8.981	9.680	9.800	10.440
	15 MHz	QPSK	13.593	13.473	13.473	15.780	15.480	15.660
		16QAM	13.593	13.593	13.593	16.260	15.720	15.780
20 MHz	QPSK	17.964	17.964	17.964	19.840	20.000	19.760	
	16QAM	17.964	17.964	17.964	19.840	20.480	19.600	

Cellular 850 Band, GPRS, Low Channel



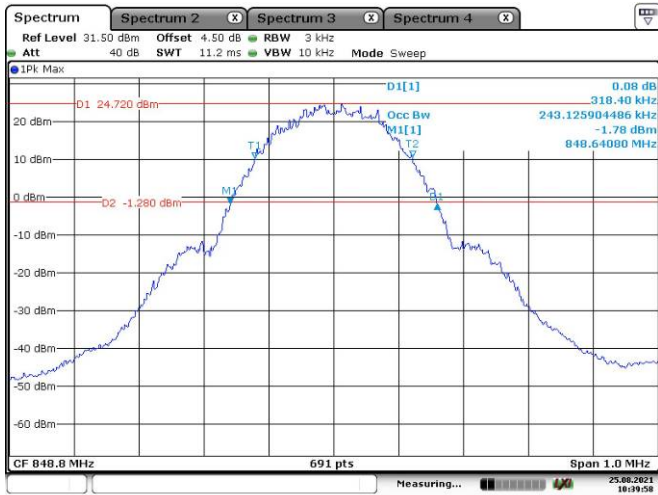
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Cellular 850 Band, GPRS, Middle Channel



Date: 25.AUG.2021 10:37:51

Cellular 850 Band, GPRS, High Channel



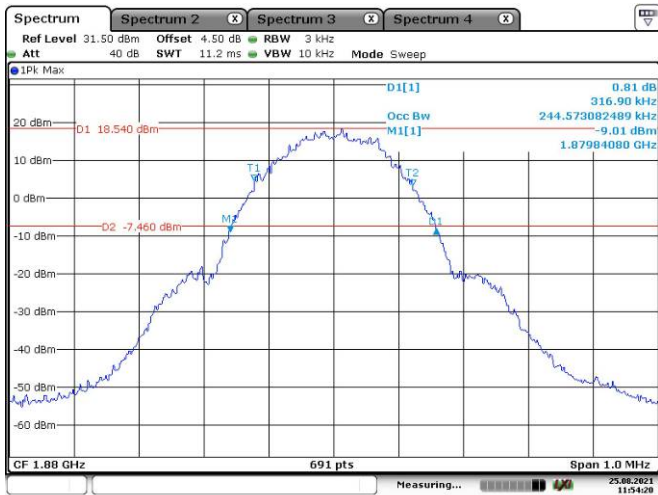
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PCS 1900 Band, GPRS, Low Channel



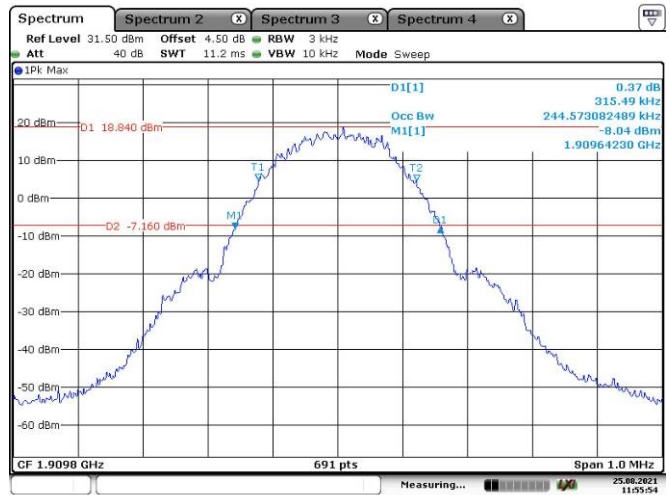
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PCS 1900 Band, GPRS, Middle Channel



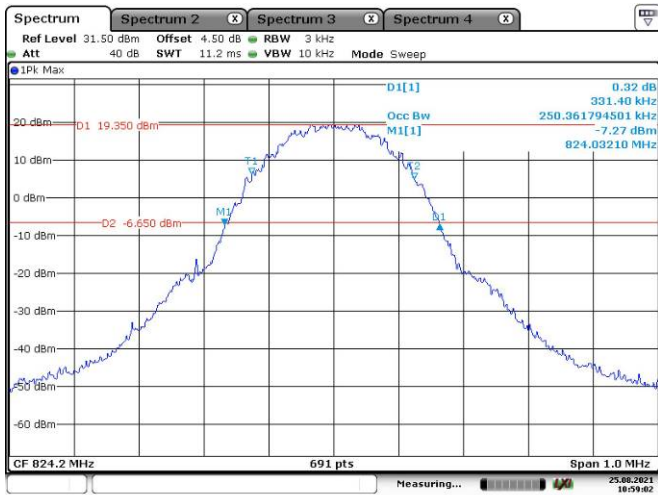
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PCS 1900 Band, GPRS, High Channel



Date: 25.AUG.2021 11:55:54

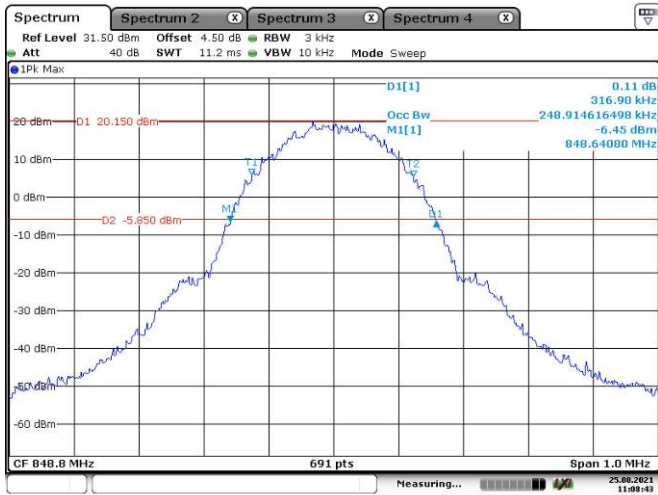
Cellular 850 Band, EDGE, Low Channel



Cellular 850 Band, EDGE, Middle Channel



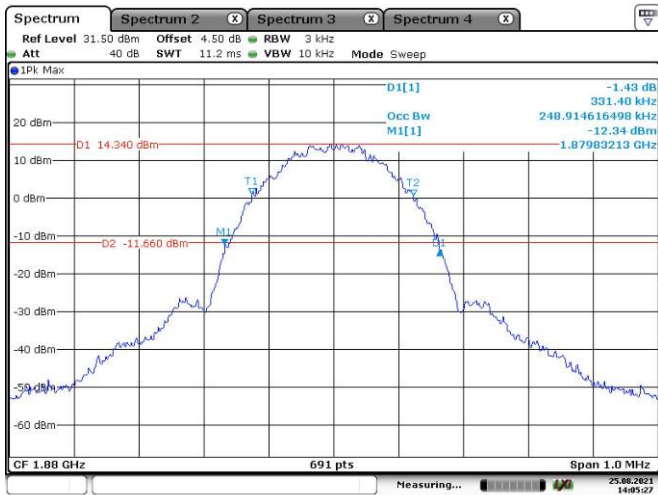
Cellular 850 Band, EDGE, High Channel



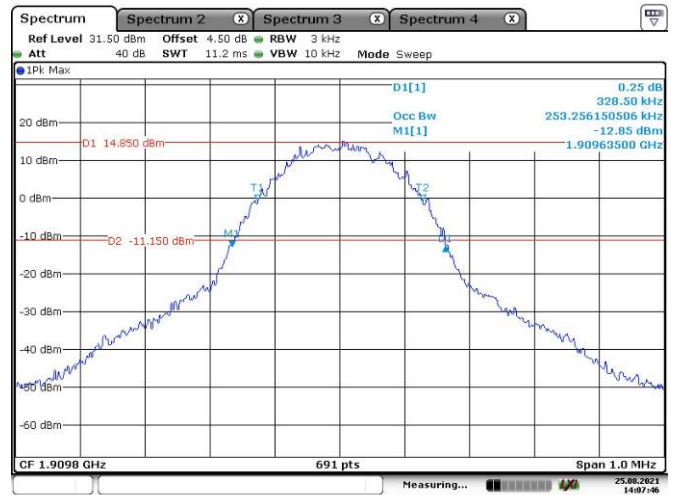
PCS 1900 Band, EDGE, Low Channel



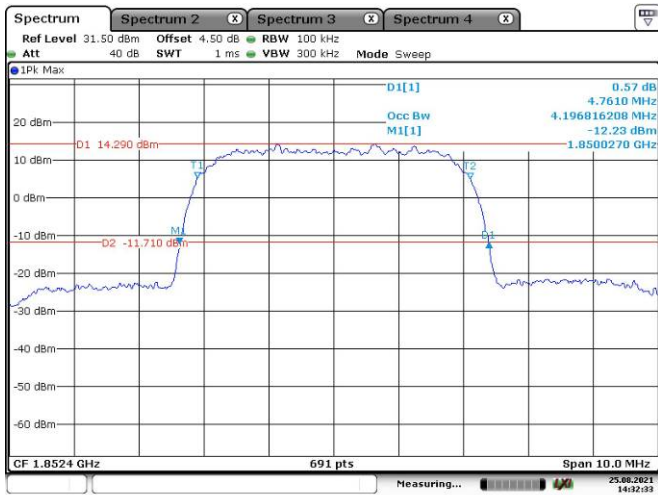
PCS 1900 Band, EDGE, Middle Channel



PCS 1900 Band, EDGE, High Channel

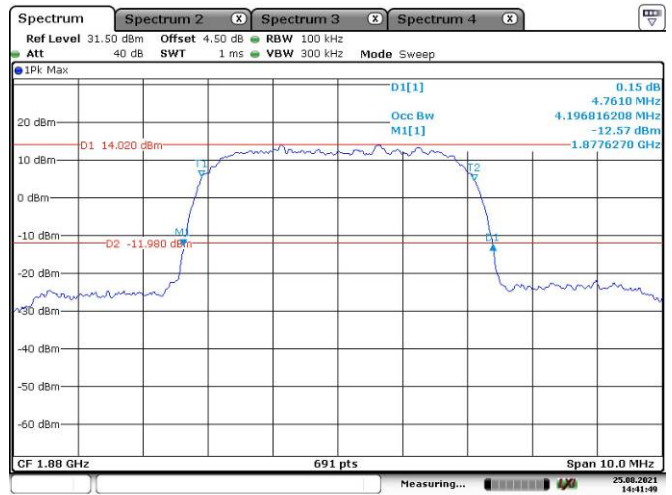


WCDMA Band II, Rel99, Low Channel



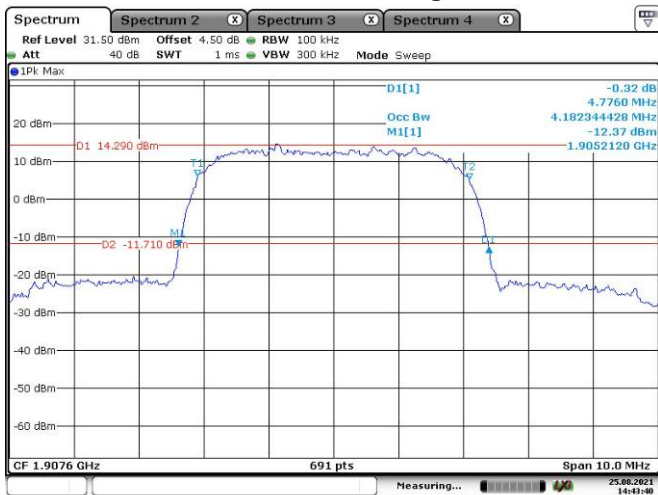
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WCDMA Band II, Rel99, Middle Channel



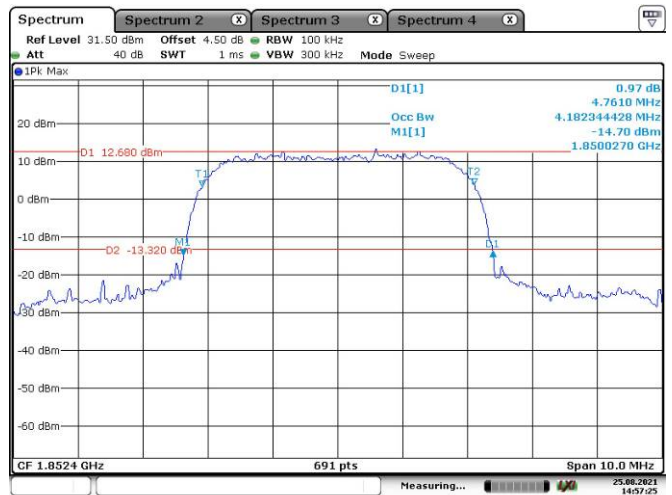
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WCDMA Band II, Rel99, High Channel



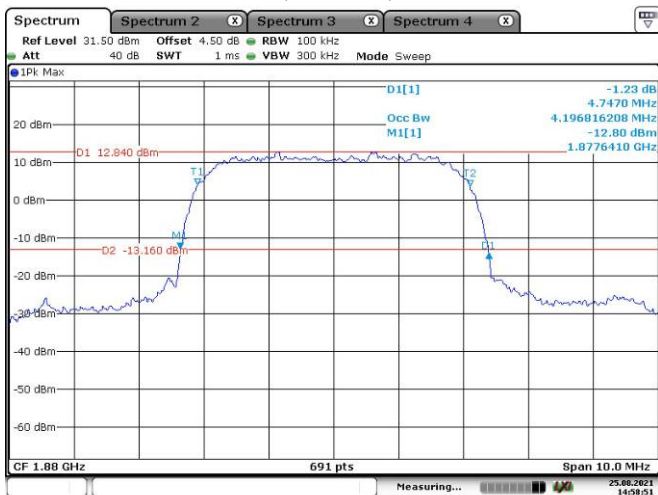
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WCDMA Band II, HSDPA, Low Channel



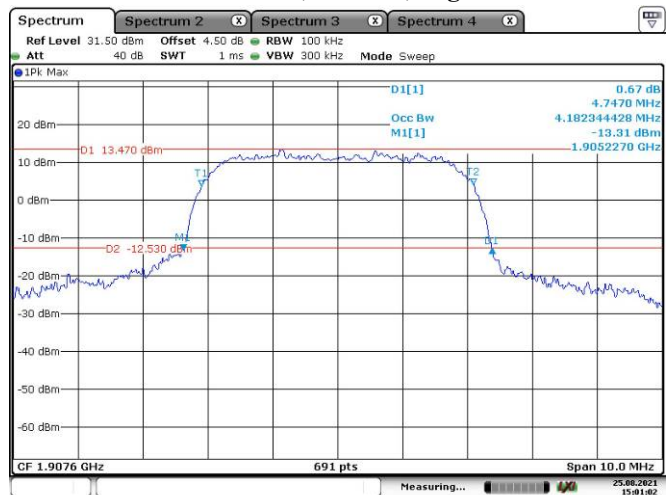
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WCDMA Band II, HSDPA, Middle Channel



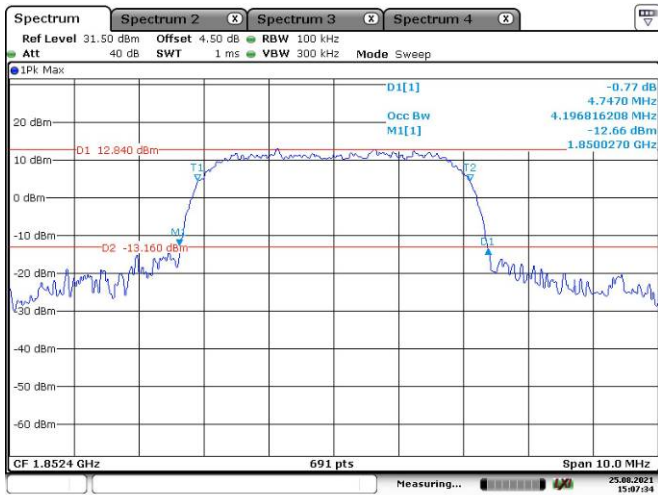
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WCDMA Band II, HSDPA, High Channel



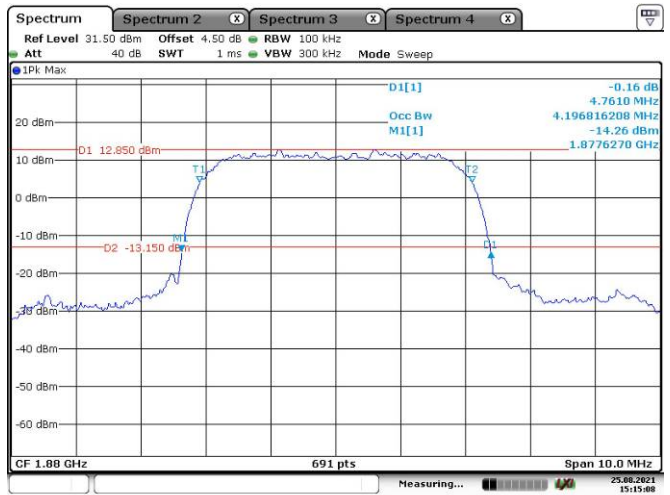
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WCDMA Band II, HSUPA, Low Channel



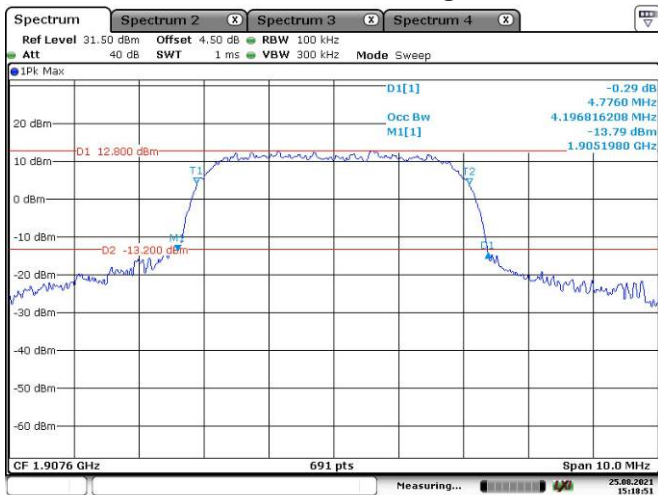
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WCDMA Band II, HSUPA, Middle Channel



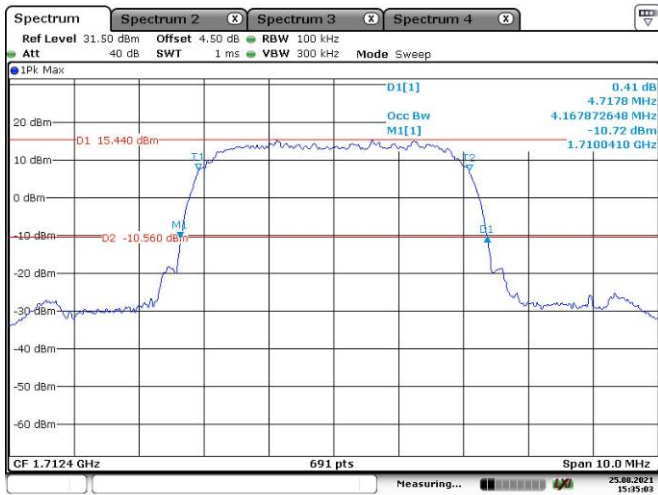
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WCDMA Band II, HSUPA, High Channel

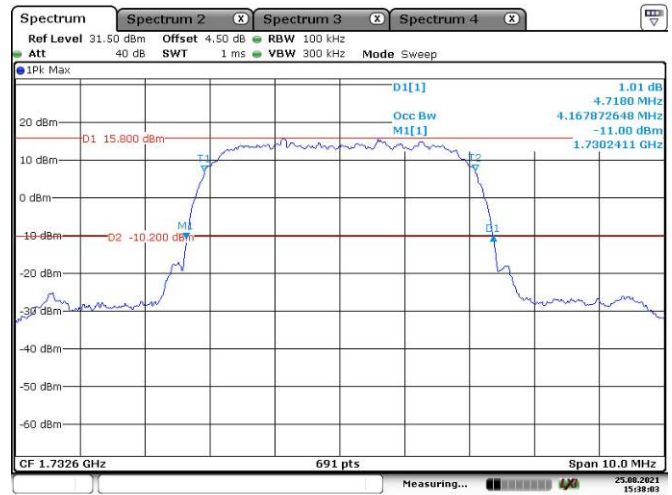


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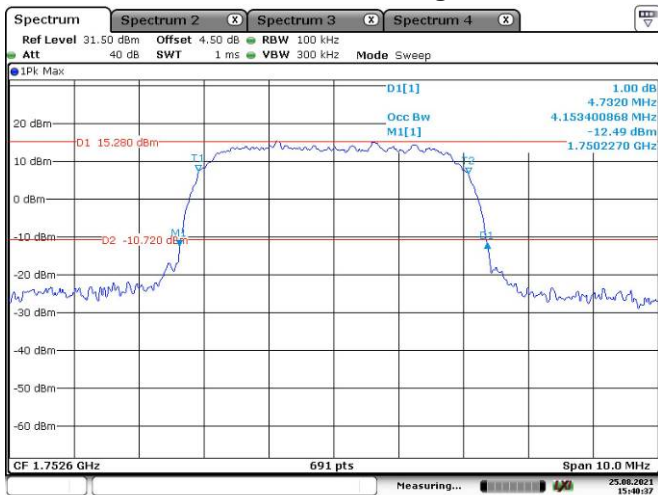
WCDMA Band IV, Rel99, Low Channel



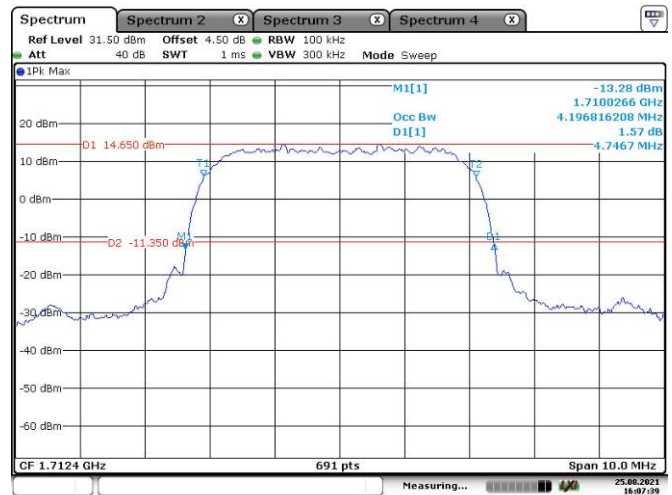
WCDMA Band IV, Rel99, Middle Channel



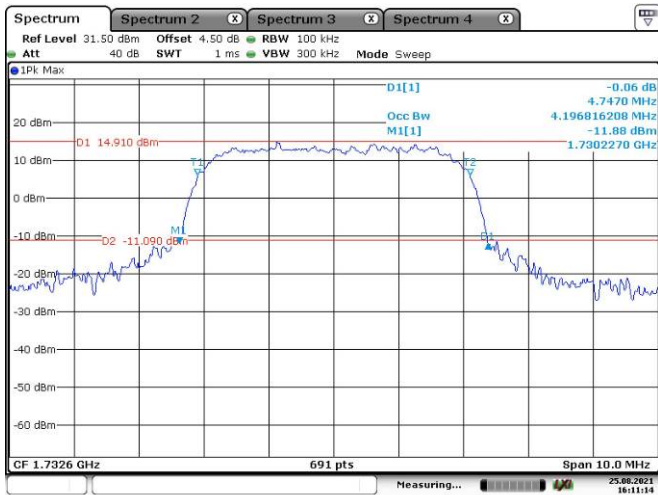
WCDMA Band IV, Rel99, High Channel



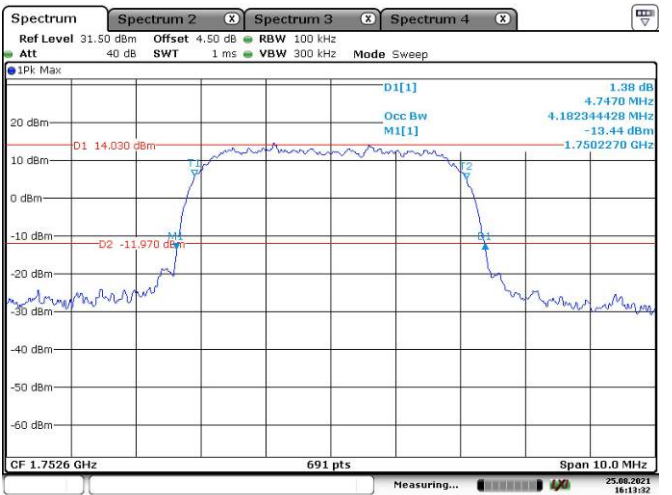
WCDMA Band IV, HSDPA, Low Channel



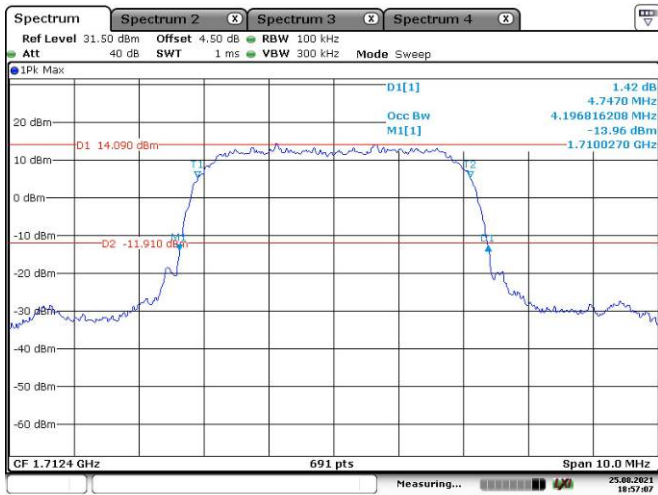
WCDMA Band IV, HSDPA, Middle Channel



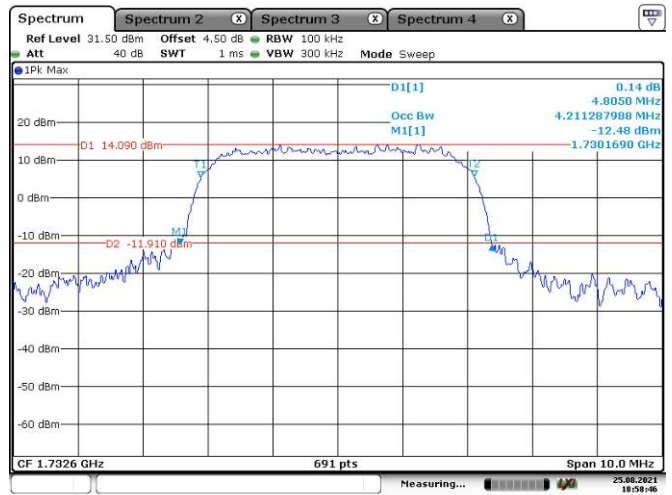
WCDMA Band IV, HSDPA, High Channel



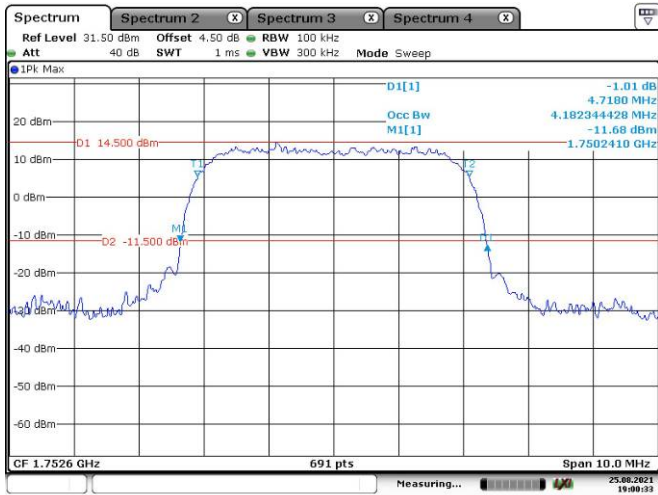
WCDMA Band IV, HSUPA, Low Channel



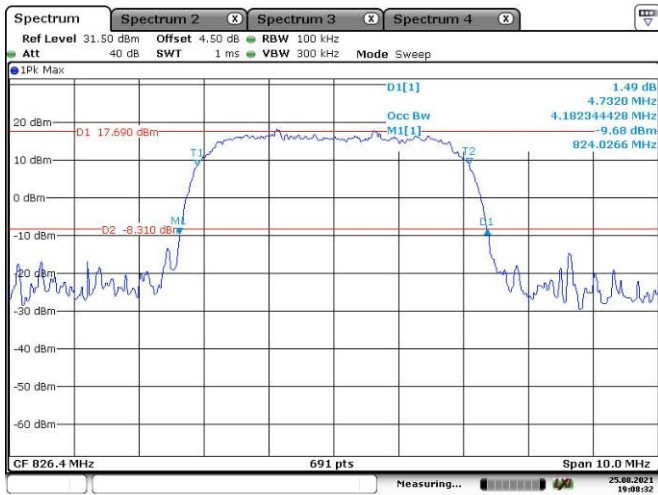
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WCDMA Band IV, HSUPA, High Channel

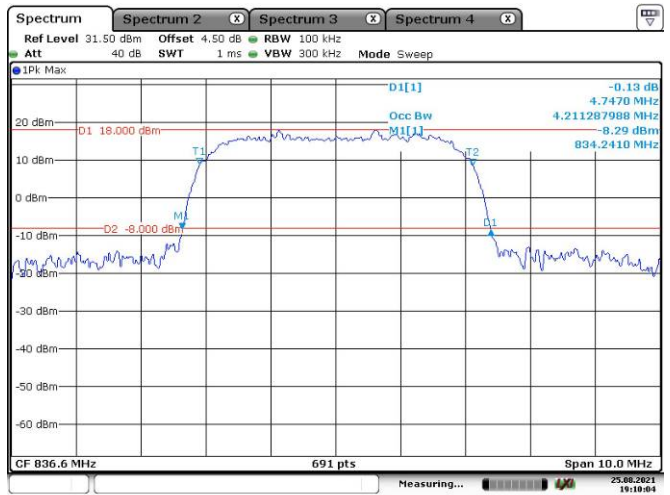


WCDMA Band V, Rel99, Low Channel



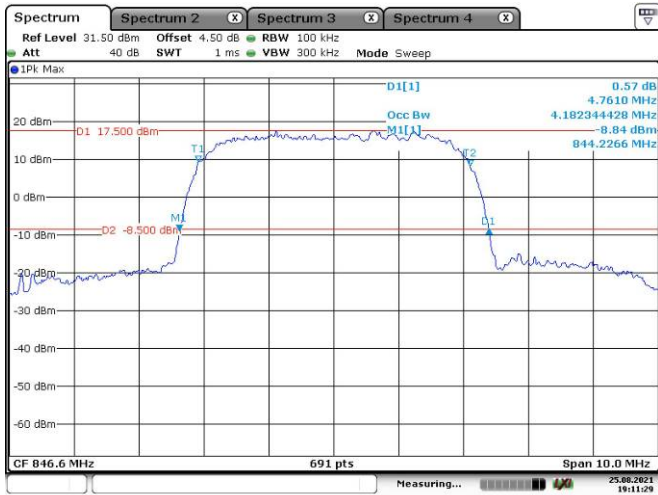
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WCDMA Band V, Rel99, Middle Channel



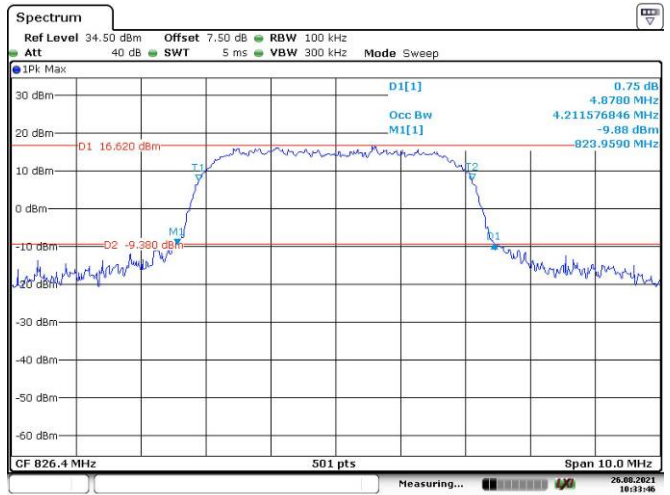
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WCDMA Band V, Rel99, High Channel



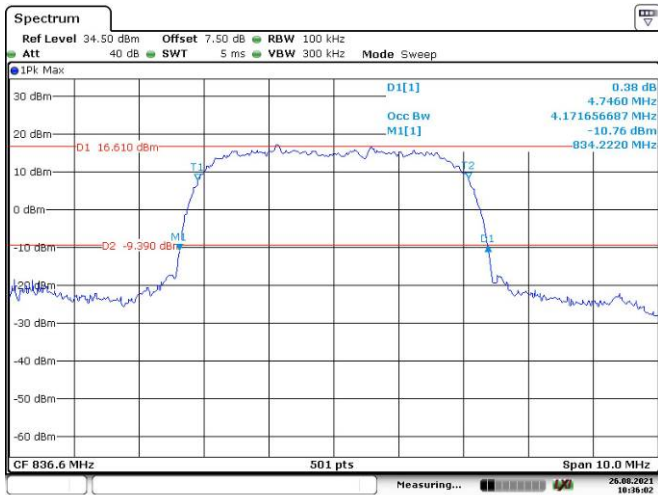
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WCDMA Band V, HSDPA, Low Channel



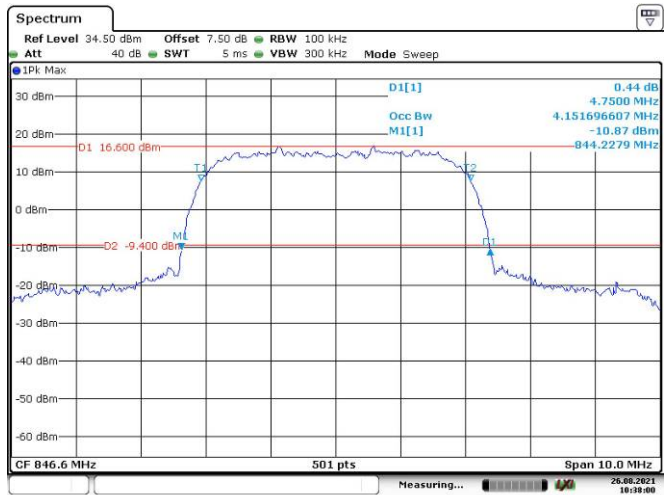
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WCDMA Band V, HSDPA, Middle Channel



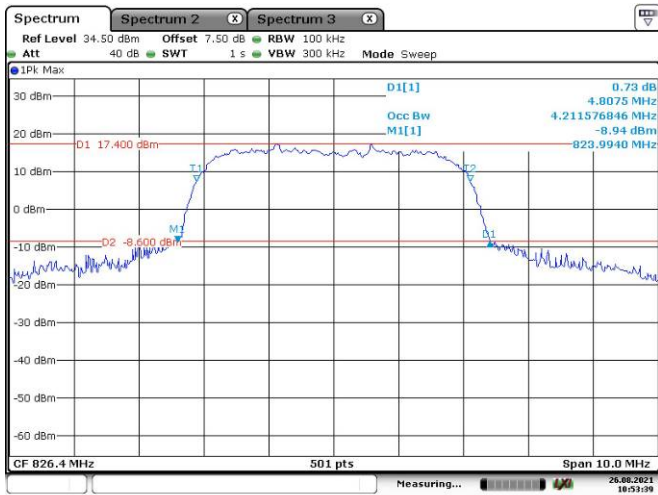
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WCDMA Band V, HSDPA, High Channel



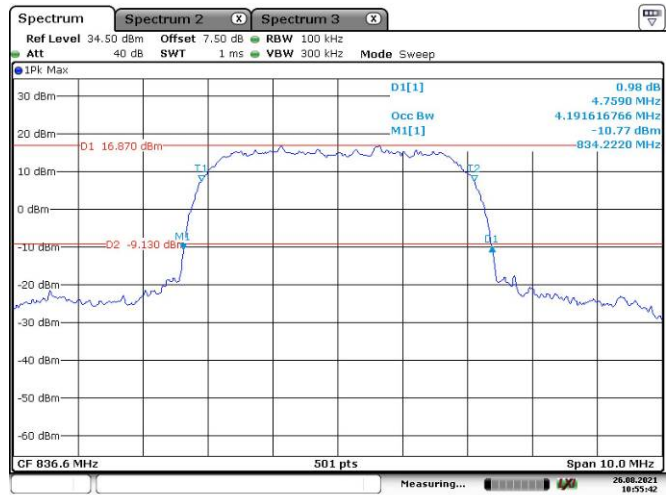
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WCDMA Band V, HSUPA, Low Channel



Date: 26.AUG.2021 10:53:39

WCDMA Band V, HSUPA, Middle Channel



Date: 26.AUG.2021 10:55:42

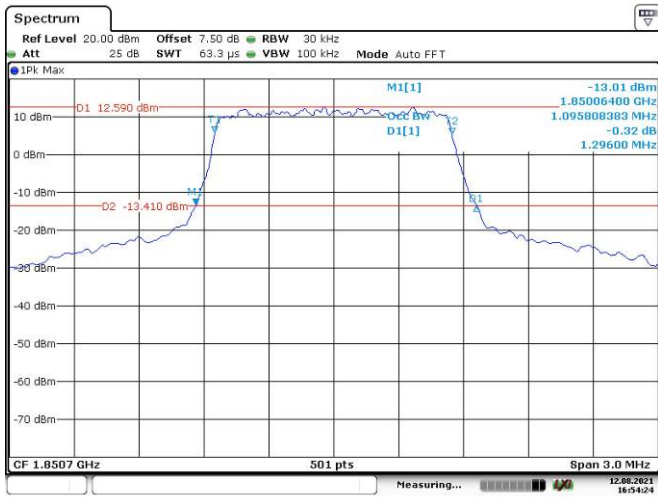
WCDMA Band V, HSUPA, High Channel



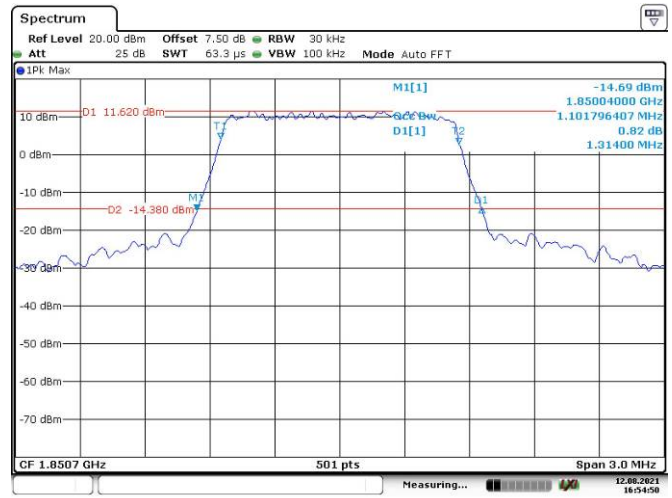
Date: 26.AUG.2021 10:58:00

LTE Band 2

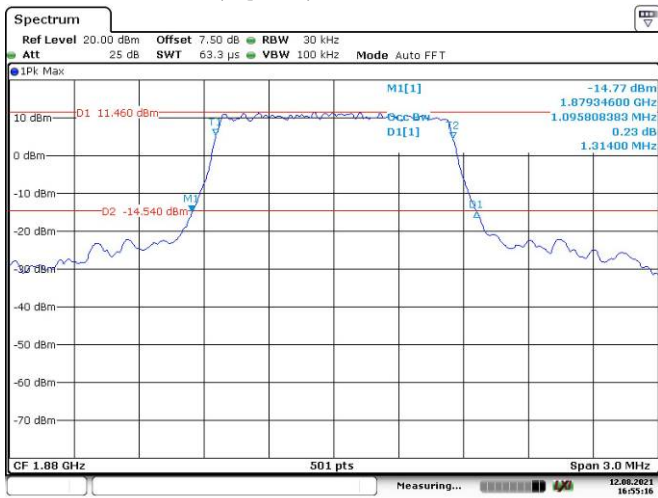
1.4M, QPSK, Low Channel



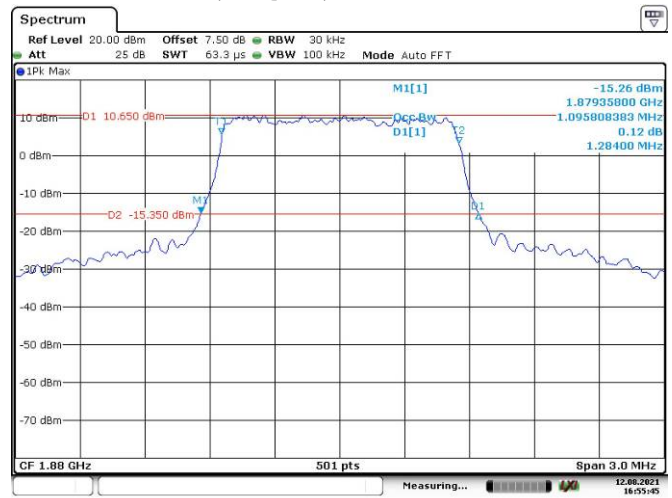
1.4M, 16QAM, Low Channel



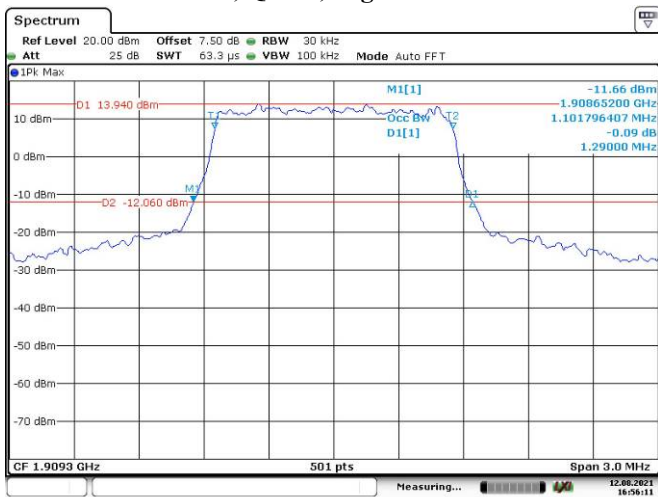
1.4M, QPSK, Middle Channel



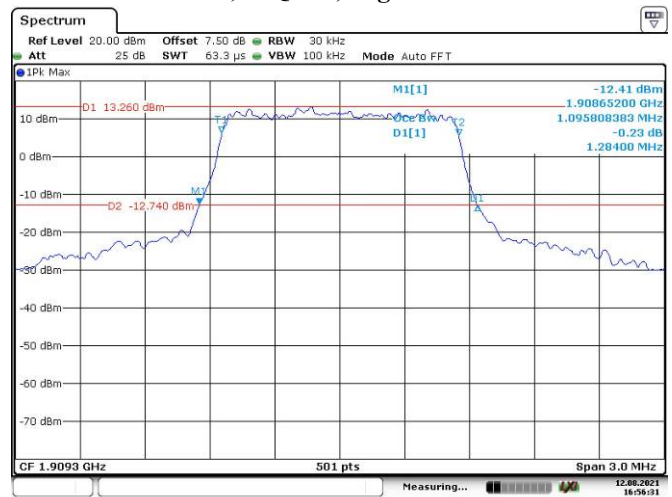
1.4M, 16QAM, Middle Channel



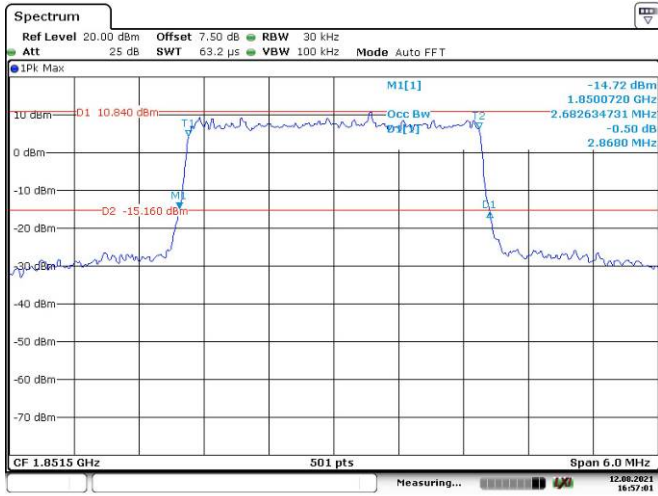
1.4M, QPSK, High Channel



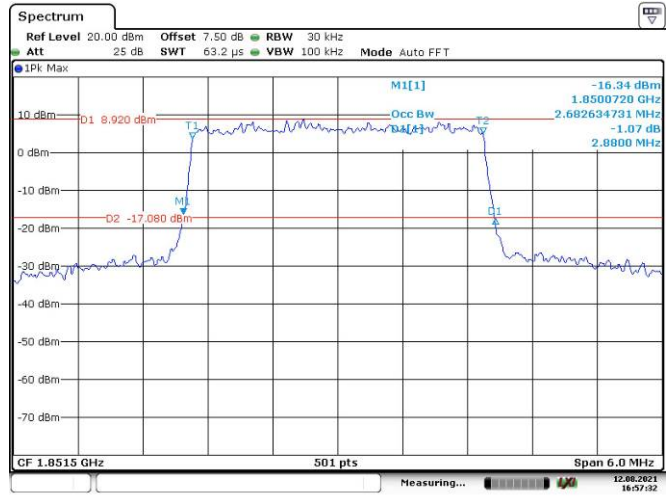
1.4M, 16QAM, High Channel



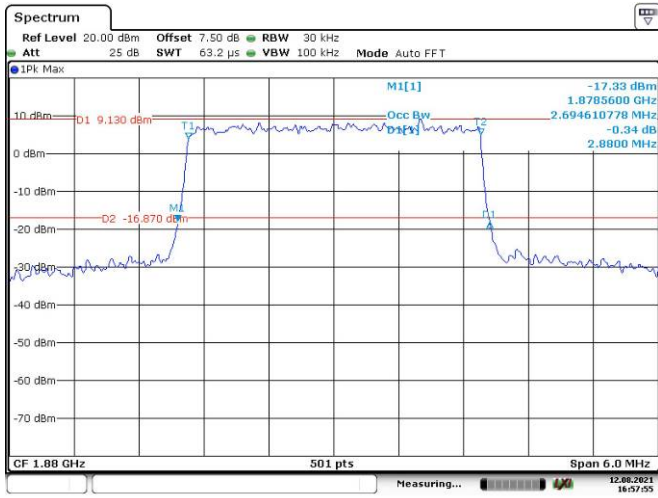
3M, QPSK, Low Channel



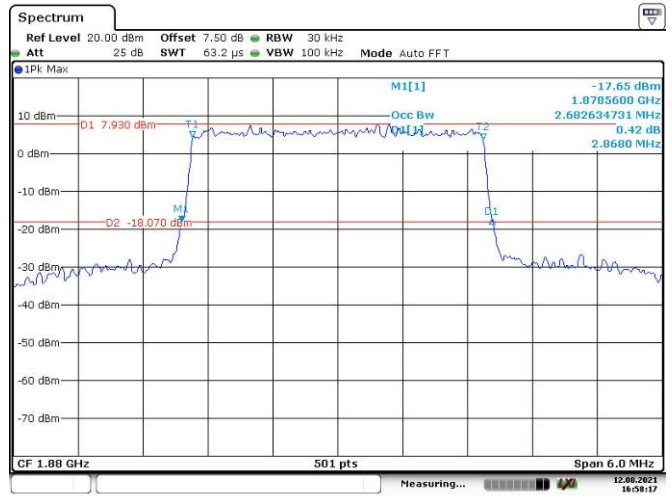
3M, 16QAM, Low Channel



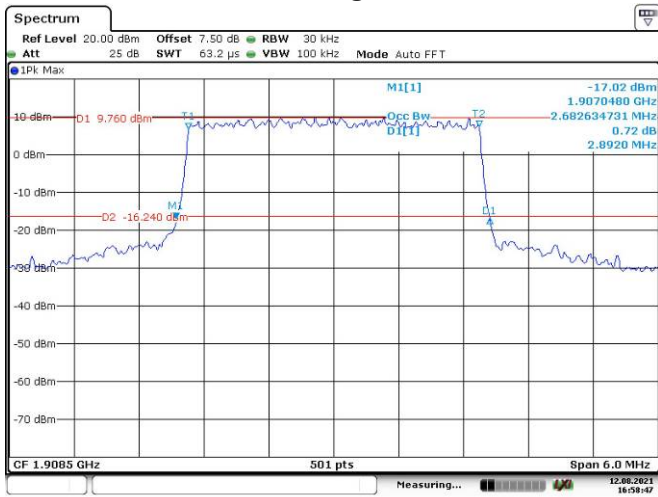
3M, QPSK, Middle Channel



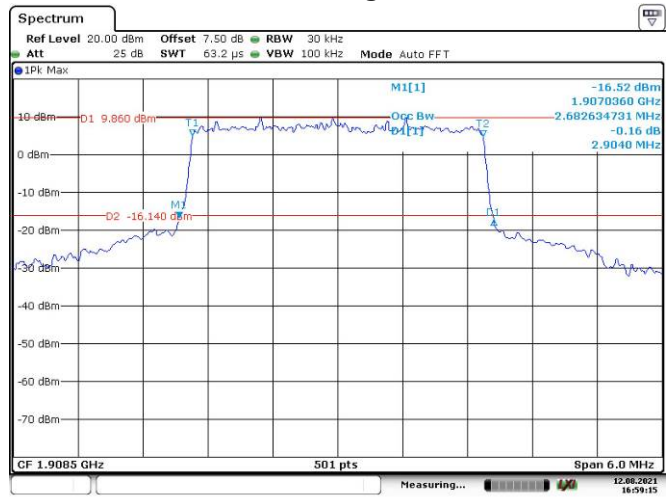
3M, 16QAM, Middle Channel



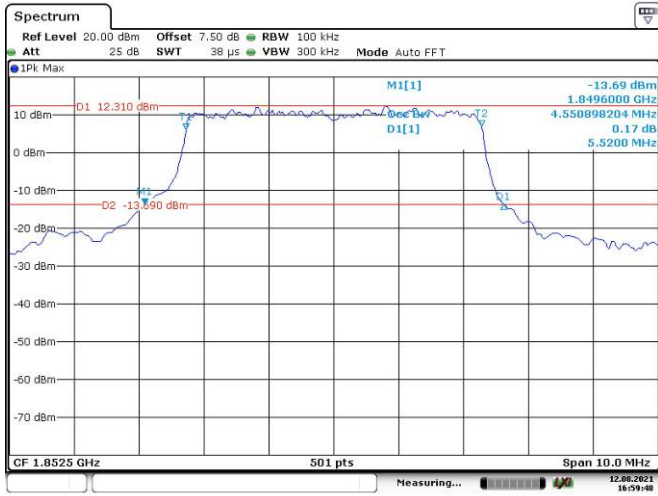
3M, QPSK, High Channel



3M, 16QAM, High Channel

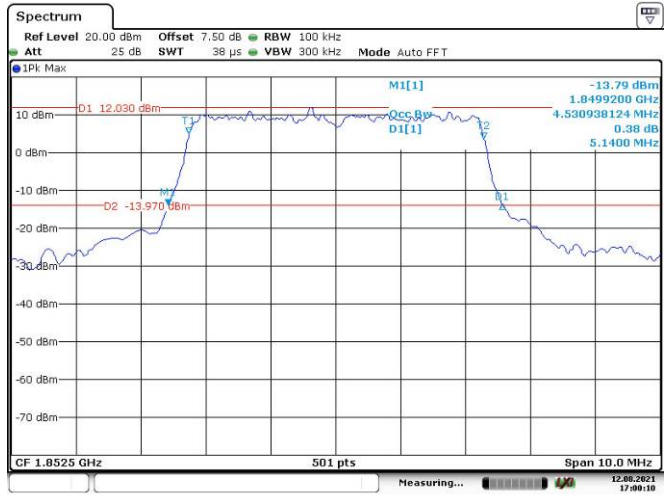


5M, QPSK, Low Channel



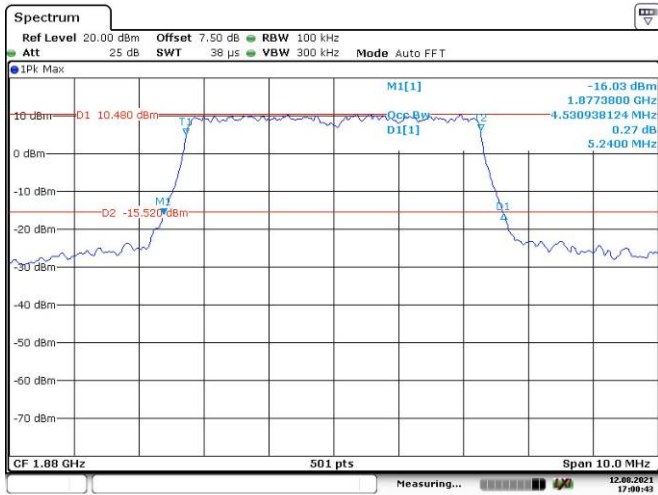
Date: 12.AUG.2021 16:59:48

5M, 16QAM, Low Channel



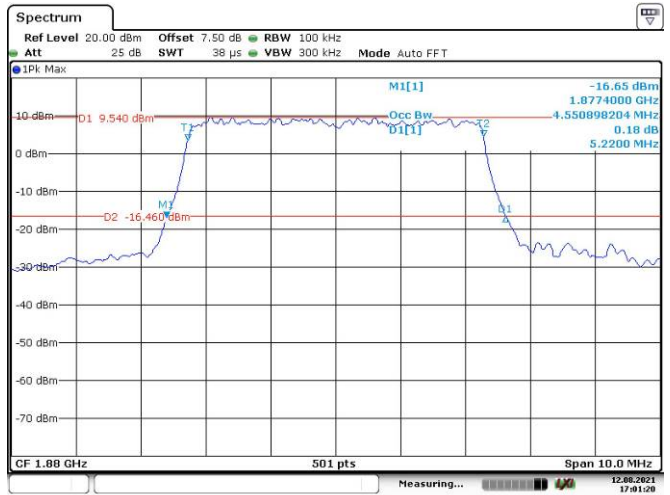
Date: 12.AUG.2021 17:00:11

5M, QPSK, Middle Channel



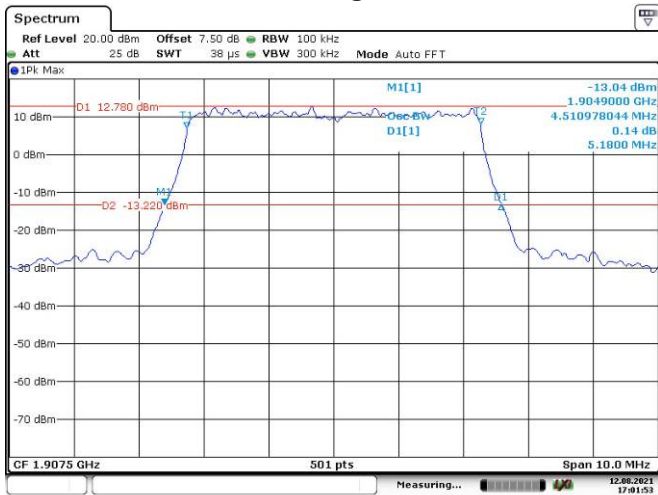
Date: 12.AUG.2021 17:00:43

5M, 16QAM, Middle Channel



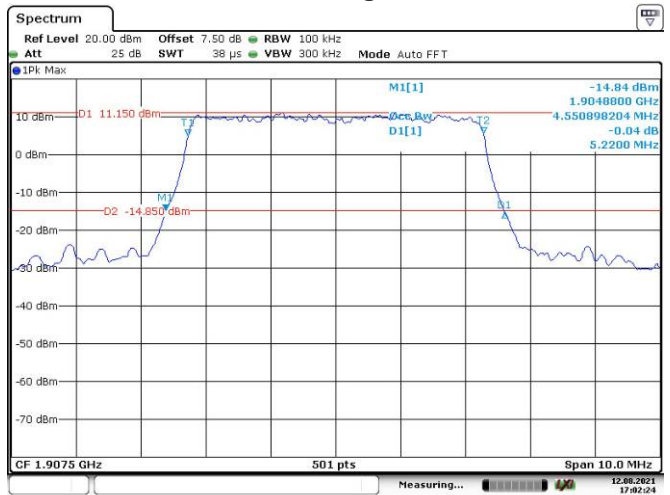
Date: 12.AUG.2021 17:01:21

5M, QPSK, High Channel



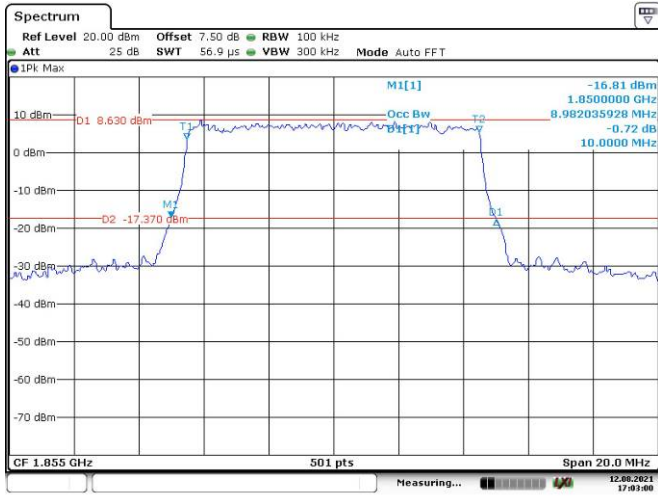
Date: 12.AUG.2021 17:01:53

5M, 16QAM, High Channel

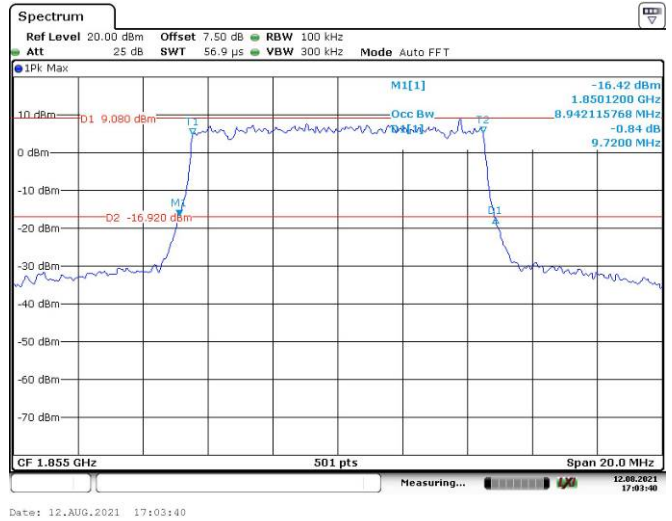


Date: 12.AUG.2021 17:02:25

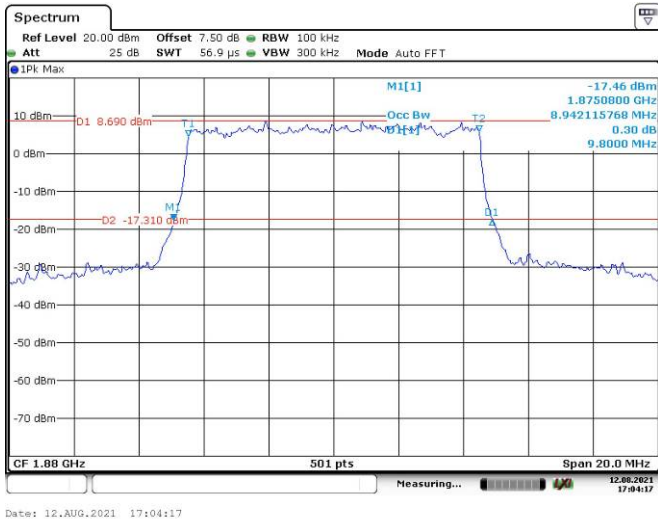
10M, QPSK, Low Channel



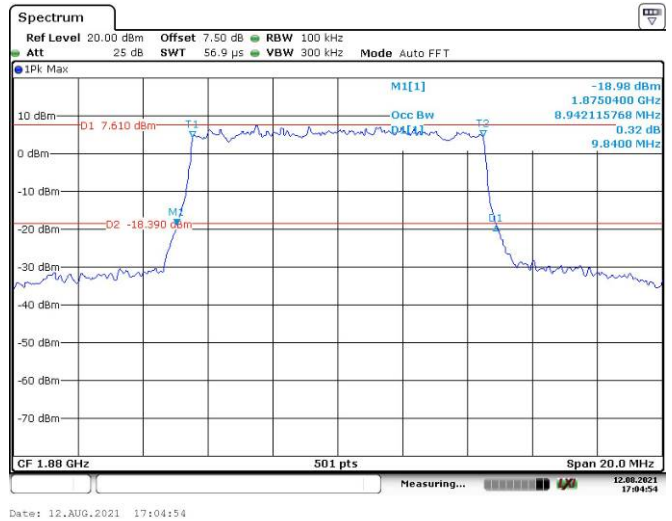
10M, 16QAM, Low Channel



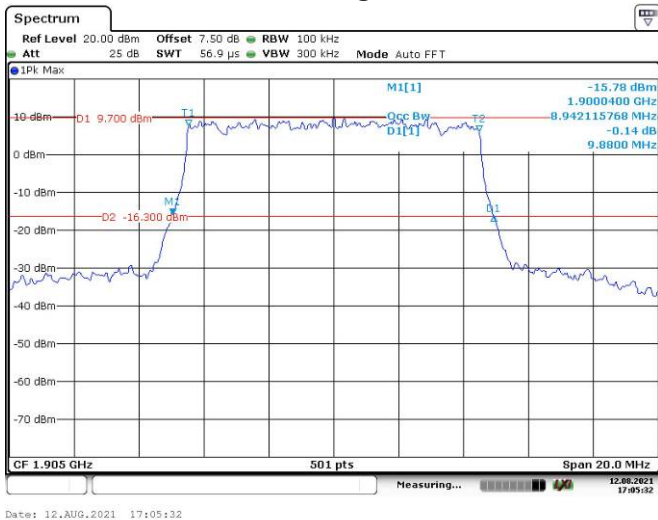
10M, QPSK, Middle Channel



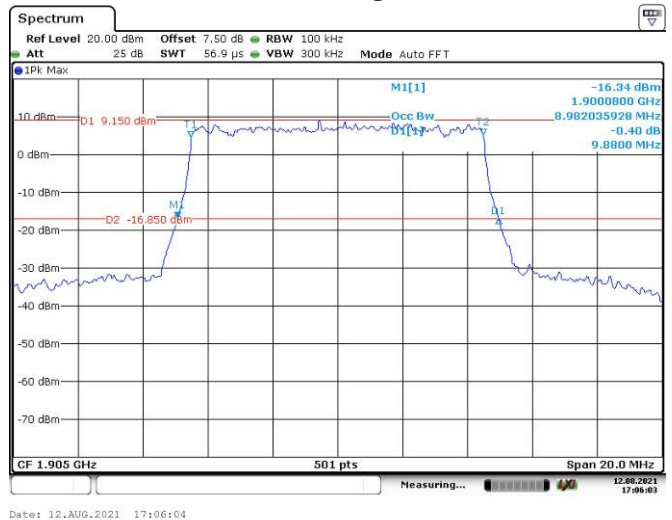
10M, 16QAM, Middle Channel



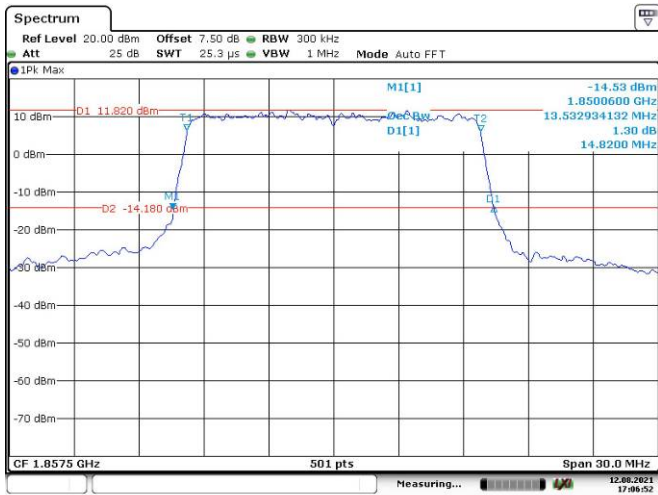
10M, QPSK, High Channel



10M, 16QAM, High Channel

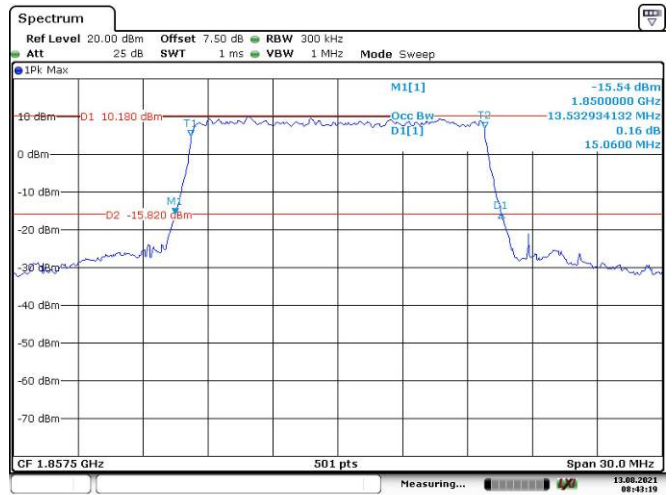


15M, QPSK, Low Channel



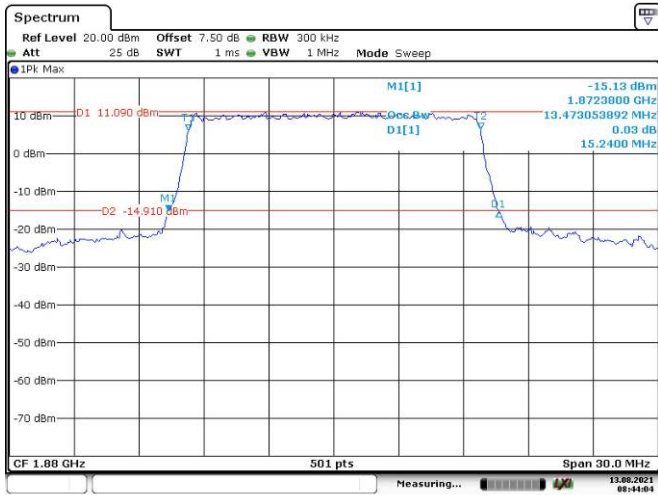
Date: 12.AUG.2021 17:06:52

15M, 16QAM, Low Channel



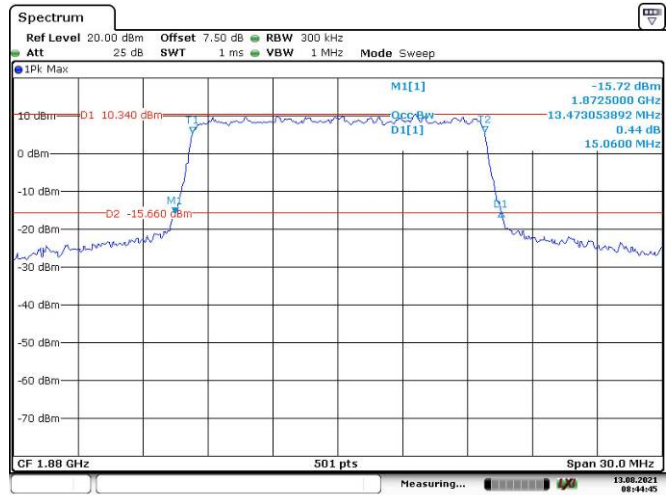
Date: 13.AUG.2021 08:43:20

15M, QPSK, Middle Channel



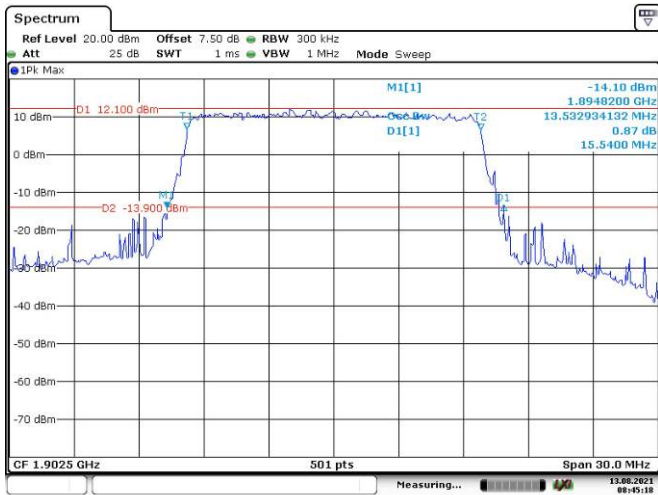
Date: 13.AUG.2021 08:44:05

15M, 16QAM, Middle Channel



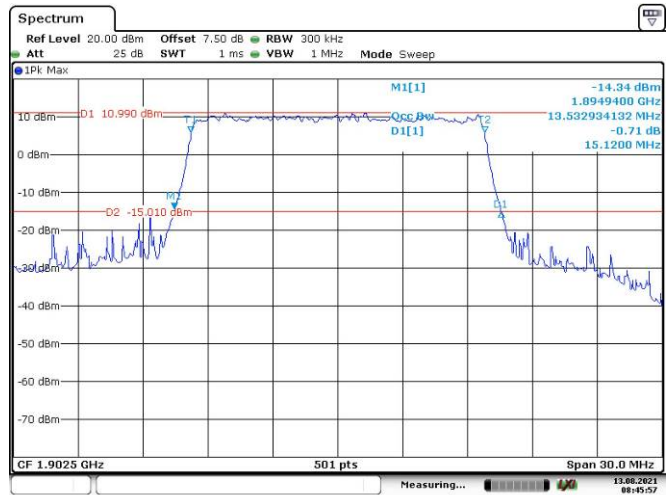
Date: 13.AUG.2021 08:44:46

15M, QPSK, High Channel



Date: 13.AUG.2021 08:45:19

15M, 16QAM, High Channel



Date: 13.AUG.2021 08:45:58