



TESTING LABORATORY
CERTIFICATE #4820.01



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

For

CLC HONG KONG LIMITED

802, 8/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

FCC ID: 2AG4WGATOR7

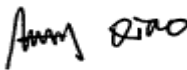
Report Type: Original Report	Product Type: Gator 7
Report Number: DG1210429-14662E-00D	
Report Date: 2021-07-08	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:		Gator 7
EUT Model:		Z570
Operation modes:		GPRS/EDGE Data, WCDMA(R99 (Data), HSDPA,HSUPA, HSPA+) FDD-LTE,TDD-LTE
Operation Frequency:		GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 2:1850-1910 MHz(TX), 1930-1990 MHz(RX) LTE Band 4:1710-1755 MHz(TX), 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 7: 2500-2570MHz(TX); 2620-2690MHz(RX) LTE Band 12: 699-716 MHz(TX), 729-746 MHz(RX) LTE Band 17: 704-716 MHz(TX); 734-746MHz(RX) LTE Band 41: 2535-2655 MHz(TX&RX) LTE Band 66: 1710-1780 MHz(TX), 2110-2180 MHz(RX)
		GSM850/WCDMA B5/LTE B5:-1.31 dBi (-3.46dBd) PCS1900/WCDMA B2/LTE B2: 0.75dBi LTE B4/B66: 0.62 dBi LTE B7: 0.91 dBi LTE B12: -1.48 dBi(-3.63dBd) LTE B17: -1.45 dBi(-3.60dBd) LTE B41: 0.88 dBi
Modulation Type:		GMSK,8PSK, BPSK, QPSK, 16QAM
Adapter Information	Model:	PMC45
	Input:	100-240Vac 50/60Hz 0.3A
	Output:	5.0Vdc, 2.0A, 10.0W
Rated Input Voltage:		5Vdc from Adapter or 3.85Vdc from Battery
Serial Number:		DG1210429-14662E-RF-S1
EUT Received Date:		2021.04.29
EUT Received Status:		Good

Objective

This report is prepared on behalf of **CLC HONG KONG LIMITED** in accordance with: Part 2-Subpart J, Part 22-Subpart H, Part 24-Subpart E, Part 27 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.

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.

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 B2/5 and LTE band 2/4/5/7/12/17/41/66. 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 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 17	5	706.5	710	713.5
	10	709	710	711
LTE Band 41	5	2537.5	2595	2652.5
	10	2540	2595	2650
	15	2542.5	2595	2647.5
	20	2545	2595	2645
LTE Band 66	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

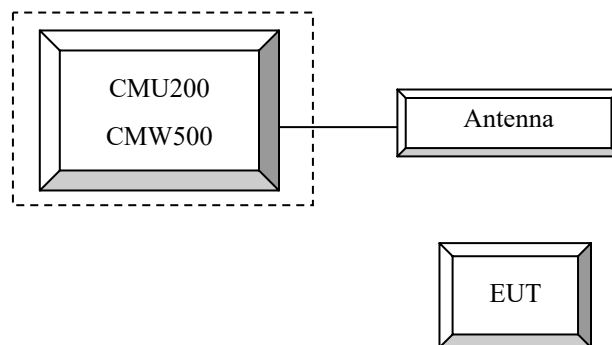
Equipment Modifications

No modification was made to the EUT.

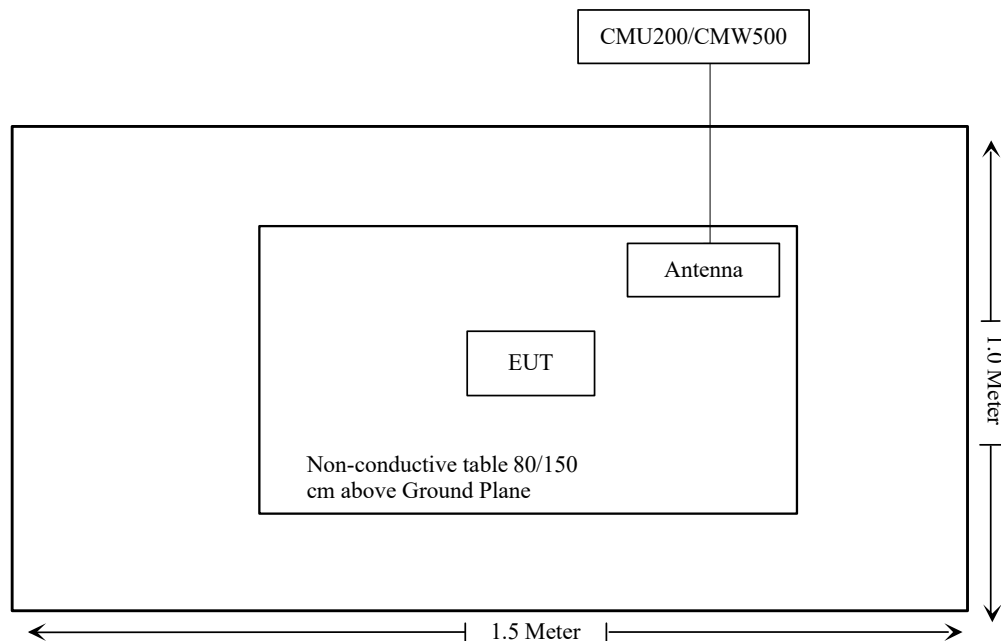
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Antenna	Unknown	Unknown
R&S	Universal Radio Communication Tester	CMU200	106 891
R&S	Wideband Radio Communication Tester	CMW500	147473

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

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

FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE

Please refer to the SAR report: DG1210429-14662E-20.

FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E, part 27 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- 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.

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				
	Ahs= β_{hs}/β_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_FCI	E-TFCI 11 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 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 (Note 3)	β_d	β_{HS} (Note 1)	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
Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default. Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value. 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.											

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
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. 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.		

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
64 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):

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 $\times (T_s) \times \# \text{ of S} + \# \text{ of U}$

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
 $T_s = 1/(15000 \times 2048) \text{ seconds}$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Universal Radio Communication Tester	CMU200	106 891	2020-09-23	2021-09-22
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	2021-05-06	2022-05-05
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	0E01203239	2020-09-06	2021-09-06
R&S	Wideband Radio Communication Tester	CMW500	110479	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:	26.9~27.5 °C
Relative Humidity:	64~70 %
ATM Pressure:	100.3~100.5kPa
Tester:	Lay Lei
Test Date:	2021.05.29~2021.06.06

Test Result: Compliance

GSM/GPRS**Conducted Output Power:**

Band	Channel No.	Conducted Peak Output Power (dBm)				
		GSM	GPRS 1 uplink slot	GPRS 2 uplink slot	GPRS 3 uplink slot	GPRS 4 uplink slot
Cellular	128	32.21	32.58	30.47	28.26	27.45
	190	32.35	32.45	30.56	28.68	27.85
	251	32.56	32.31	30.72	28.76	27.89
PCS	512	28.45	28.03	26.59	24.28	22.89
	661	29.25	28.32	26.52	24.97	22.57
	810	29.53	28.24	26.57	24.58	22.56

ERP/EIRP:

Band	Mode	Channel	Conducted Power	Antenna Gain	Cable Loss	Result	Limit
			(dBm)	(dBi/dBd)	(dB)	(dBm)	(dBm)
Cellular	GSM	Low	32.58	-3.46	0.4	28.72	38.45
		Middle	32.45	-3.46	0.4	28.59	38.45
		High	32.56	-3.46	0.4	28.70	38.45
PCS	GSM	Low	28.45	0.75	0.8	28.4	33
		Middle	29.25	0.75	0.8	29.2	33
		High	29.53	0.75	0.8	29.48	33

EGPRS**Conducted Output Power:**

Band	Channel No.	Conducted Peak Output Power (dBm)			
		EGPRS 1 uplink slot	EGPRS 2 uplink slot	EGPRS 3 uplink slot	EGPRS 4 uplink slot
Cellular	128	27.59	25.78	23.46	22.24
	190	27.38	25.59	23.42	21.59
	251	27.46	25.81	23.39	21.74
PCS	512	26.85	25.59	23.46	21.29
	661	26.53	25.54	23.78	21.46
	810	26.54	25.49	22.46	21.47

ERP/EIRP:

Band	Mode	Channel	Conducted Power	Antenna Gain	Cable Loss	Result	Limit
			(dBm)	(dBi/dBd)	(dB)	(dBm)	(dBm)
Cellular	EGPRS	Low	27.59	-3.46	0.4	23.73	38.45
		Middle	27.38	-3.46	0.4	23.52	38.45
		High	27.46	-3.46	0.4	23.6	38.45
PCS	EGPRS	Low	26.85	0.75	0.8	26.8	33
		Middle	26.53	0.75	0.8	26.48	33
		High	26.54	0.75	0.8	26.49	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 - Cable loss + 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	20.77	2.87	21.29	2.87	21.02	2.81
HSDPA	1	20.36	3.30	20.32	4.06	19.91	3.86
	2	20.26	3.27	20.23	3.28	19.93	3.47
	3	20.32	3.85	20.06	3.35	20.22	3.42
	4	20.99	3.24	19.96	3.49	20.03	3.57
HSUPA	1	21.06	3.16	20.78	3.57	19.77	3.19
	2	20.37	3.26	19.99	3.56	19.92	3.28
	3	20.76	3.51	20.26	3.78	19.99	3.53
	4	20.99	3.49	19.99	3.76	19.92	3.42
	5	20.48	3.53	20.25	3.28	19.91	3.28
DC-HSDPA	1	20.96	3.34	20.33	3.59	20.29	3.79
	2	21.03	3.29	20.21	3.49	19.96	3.59
	3	21.39	3.22	20.06	3.53	20.22	3.73
	4	20.96	3.36	20.44	3.42	19.99	3.46
HSPA+	1	19.77	2.25	18.78	2.42	18.79	2.73

EIRP:

Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Result (dBm)	Limit (dBm)
Low	21.39	0.75	0.8	21.34	33
Middle	21.29	0.75	0.8	21.24	33
High	21.02	0.75	0.8	20.97	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	22.95	3.01	22.76	3.04	22.26	3.01
HSDPA	1	21.46	3.68	21.36	3.19	21.85	3.80
	2	21.26	3.51	21.49	3.47	21.25	3.14
	3	21.37	3.25	21.72	3.26	21.64	3.46
	4	21.91	3.37	21.68	3.46	21.23	3.28
HSUPA	1	21.46	3.68	21.46	3.45	21.72	3.36
	2	21.57	3.67	21.72	3.23	20.95	3.46
	3	21.46	3.46	21.59	3.73	21.46	3.28
	4	21.29	3.76	21.23	3.59	21.29	3.46
	5	21.76	3.82	21.54	3.26	21.46	3.29
DC-HSDPA	1	21.37	3.49	21.82	3.41	21.57	3.27
	2	21.64	3.58	21.73	3.13	21.28	3.46
	3	21.92	3.24	21.49	3.08	21.46	3.47
	4	21.73	3.76	21.28	3.18	21.72	3.38
HSPA+	1	20.82	3.56	20.23	3.43	20.46	3.73

ERP:

Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Result (dBm)	Limit (dBm)
Low	22.95	-3.46	0.4	19.09	38.45
Middle	22.76	-3.46	0.4	18.90	38.45
High	22.26	-3.46	0.4	18.40	38.45

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	19.69	20.02	19.37
		RB1#3	19.88	20.19	19.58
		RB1#5	19.71	20.00	19.36
		RB3#0	19.79	20.12	19.43
		RB3#3	19.76	20.13	19.56
		RB6#0	18.74	19.06	18.41
	16QAM	RB1#0	18.68	19.13	18.38
		RB1#3	18.87	19.42	18.59
		RB1#5	18.73	19.15	18.40
		RB3#0	18.92	19.08	18.53
		RB3#3	18.95	19.10	18.49
		RB6#0	17.78	18.13	17.37
3MHz	QPSK	RB1#0	19.70	20.07	19.45
		RB1#8	19.71	20.07	19.44
		RB1#14	19.76	20.06	19.40
		RB6#0	18.70	19.01	18.38
		RB6#9	18.75	18.98	18.37
		RB15#0	18.77	19.08	18.43
	16QAM	RB1#0	19.26	19.22	18.45
		RB1#8	19.32	19.19	18.44
		RB1#14	19.32	19.17	18.38
		RB6#0	17.78	18.04	17.37
		RB6#9	17.78	18.07	17.35
		RB15#0	17.83	18.06	17.49
5MHz	QPSK	RB1#0	19.65	20.00	19.39
		RB1#13	19.87	20.10	19.47
		RB1#24	19.79	19.97	19.28
		RB15#0	18.83	19.10	18.50
		RB15#10	18.90	19.03	18.45
		RB25#0	18.80	19.02	18.44
	16QAM	RB1#0	18.52	19.28	18.47
		RB1#13	18.75	19.43	18.53
		RB1#24	18.69	19.22	18.40
		RB15#0	17.85	18.10	17.53
		RB15#10	17.90	18.05	17.52
		RB25#0	17.84	18.05	17.48

10MHz	QPSK	RB1#0	19.71	20.07	19.60
		RB1#25	20.02	20.19	19.63
		RB1#49	19.95	20.02	19.44
		RB25#0	18.84	19.12	18.61
		RB25#25	18.99	19.01	18.49
		RB50#0	18.95	19.08	18.55
	16QAM	RB1#0	19.28	19.21	18.57
		RB1#25	19.58	19.34	18.64
		RB1#49	19.52	19.16	18.43
		RB25#0	17.91	18.17	17.75
		RB25#25	18.04	18.07	17.58
		RB50#0	17.96	18.07	17.61
15MHz	QPSK	RB1#0	19.62	20.01	19.61
		RB1#38	19.94	20.14	19.63
		RB1#74	19.95	19.90	19.37
		RB36#0	18.88	19.16	18.73
		RB36#39	19.13	19.04	18.60
		RB75#0	19.02	19.07	18.66
	16QAM	RB1#0	19.20	19.14	19.04
		RB1#38	19.53	19.26	19.00
		RB1#74	19.54	19.06	18.73
		RB36#0	17.87	18.16	17.72
		RB36#39	18.16	18.07	17.54
		RB75#0	18.02	18.13	17.63
20MHz	QPSK	RB1#0	19.52	19.89	19.59
		RB1#50	20.29	20.30	19.83
		RB1#99	19.92	19.74	19.25
		RB50#0	18.91	19.16	18.87
		RB50#50	19.24	19.00	18.63
		RB100#0	19.11	19.13	18.76
	16QAM	RB1#0	18.80	19.07	19.17
		RB1#50	19.52	19.55	19.38
		RB1#99	19.26	18.97	18.79
		RB50#0	17.89	18.22	17.88
		RB50#50	18.24	18.05	17.63
		RB100#0	18.14	18.16	17.78

PAR:

Test Modulation		Channel Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit (dB)
QPSK	1 RB	20 MHz	4.96	4.78	4.70	13
	100 RB		5.22	5.30	5.22	13
16QAM	1 RB	20 MHz	6.64	5.71	5.54	13
	100 RB		6.09	6.43	6.09	13

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Result (dBm)	Limit (dBm)
1.4MHz	QPSK	Low	19.88	0.75	0.80	19.83	33.00
		Middle	20.19	0.75	0.80	20.14	33.00
		High	19.58	0.75	0.80	19.53	33.00
	16QAM	Low	18.95	0.75	0.80	18.90	33.00
		Middle	19.42	0.75	0.80	19.37	33.00
		High	18.59	0.75	0.80	18.54	33.00
3MHz	QPSK	Low	19.76	0.75	0.80	19.71	33.00
		Middle	20.07	0.75	0.80	20.02	33.00
		High	19.45	0.75	0.80	19.40	33.00
	16QAM	Low	19.32	0.75	0.80	19.27	33.00
		Middle	19.22	0.75	0.80	19.17	33.00
		High	18.45	0.75	0.80	18.40	33.00
5MHz	QPSK	Low	19.87	0.75	0.80	19.82	33.00
		Middle	20.10	0.75	0.80	20.05	33.00
		High	19.47	0.75	0.80	19.42	33.00
	16QAM	Low	18.75	0.75	0.80	18.70	33.00
		Middle	19.43	0.75	0.80	19.38	33.00
		High	18.53	0.75	0.80	18.48	33.00
10MHz	QPSK	Low	20.02	0.75	0.80	19.97	33.00
		Middle	20.19	0.75	0.80	20.14	33.00
		High	19.63	0.75	0.80	19.58	33.00
	16QAM	Low	19.58	0.75	0.80	19.53	33.00
		Middle	19.34	0.75	0.80	19.29	33.00
		High	18.64	0.75	0.80	18.59	33.00
15MHz	QPSK	Low	19.95	0.75	0.80	19.90	33.00
		Middle	20.14	0.75	0.80	20.09	33.00
		High	19.63	0.75	0.80	19.58	33.00
	16QAM	Low	19.54	0.75	0.80	19.49	33.00
		Middle	19.26	0.75	0.80	19.21	33.00
		High	19.04	0.75	0.80	18.99	33.00
20MHz	QPSK	Low	20.29	0.75	0.80	20.24	33.00
		Middle	20.30	0.75	0.80	20.25	33.00
		High	19.83	0.75	0.80	19.78	33.00
	16QAM	Low	19.52	0.75	0.80	19.47	33.00
		Middle	19.55	0.75	0.80	19.50	33.00
		High	19.38	0.75	0.80	19.33	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	21.64	21.34	21.61
		RB1#3	21.78	21.50	21.79
		RB1#5	21.63	21.34	21.62
		RB3#0	21.78	21.44	21.70
		RB3#3	21.76	21.44	21.73
		RB6#0	20.70	20.42	20.66
	16QAM	RB1#0	20.64	20.44	20.59
		RB1#3	20.84	20.65	20.79
		RB1#5	20.64	20.48	20.66
		RB3#0	20.95	20.40	20.77
		RB3#3	20.98	20.39	20.78
		RB6#0	19.71	19.41	19.60
3MHz	QPSK	RB1#0	21.65	21.36	21.67
		RB1#8	21.63	21.37	21.71
		RB1#14	21.56	21.37	21.68
		RB6#0	20.62	20.33	20.60
		RB6#9	20.58	20.31	20.63
		RB15#0	20.67	20.41	20.68
	16QAM	RB1#0	21.30	20.51	20.68
		RB1#8	21.26	20.53	20.70
		RB1#14	21.22	20.52	20.68
		RB6#0	19.75	19.40	19.57
		RB6#9	19.68	19.40	19.60
		RB15#0	19.78	19.38	19.71
5MHz	QPSK	RB1#0	21.61	21.30	21.54
		RB1#13	21.67	21.42	21.71
		RB1#24	21.49	21.33	21.58
		RB15#0	20.68	20.38	20.68
		RB15#10	20.65	20.41	20.70
		RB25#0	20.63	20.39	20.66
	16QAM	RB1#0	20.53	20.59	20.62
		RB1#13	20.60	20.75	20.79
		RB1#24	20.41	20.60	20.67
		RB15#0	19.75	19.40	19.70
		RB15#10	19.74	19.42	19.74
		RB25#0	19.71	19.43	19.71
10MHz	QPSK	RB1#0	21.63	21.37	21.52
		RB1#25	21.70	21.60	21.85
		RB1#49	21.46	21.41	21.70
		RB25#0	20.66	20.43	20.68
		RB25#25	20.69	20.48	20.73
		RB50#0	20.65	20.46	20.72
	16QAM	RB1#0	21.28	20.50	20.54
		RB1#25	21.36	20.73	20.80
		RB1#49	21.09	20.56	20.70
		RB25#0	19.75	19.51	19.76
		RB25#25	19.75	19.53	19.86
		RB50#0	19.72	19.52	19.77

15MHz	QPSK	RB1#0	21.52	21.28	21.35
		RB1#38	21.45	21.37	21.57
		RB1#74	21.32	21.35	21.60
		RB36#0	20.62	20.44	20.57
		RB36#39	20.58	20.48	20.68
		RB75#0	20.60	20.43	20.63
	16QAM	RB1#0	21.19	20.42	20.78
		RB1#38	21.14	20.53	21.01
		RB1#74	20.94	20.50	20.98
		RB36#0	19.63	19.43	19.52
		RB36#39	19.59	19.47	19.66
		RB75#0	19.62	19.43	19.62
20MHz	QPSK	RB1#0	21.40	21.15	21.09
		RB1#50	21.69	21.54	21.62
		RB1#99	21.19	21.29	21.42
		RB50#0	20.53	20.35	20.54
		RB50#50	20.56	20.46	20.65
		RB100#0	20.58	20.42	20.61
	16QAM	RB1#0	20.71	20.39	20.70
		RB1#50	20.94	20.77	21.19
		RB1#99	20.50	20.52	20.99
		RB50#0	19.56	19.39	19.57
		RB50#50	19.57	19.50	19.69
		RB100#0	19.62	19.44	19.64

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	20 MHz	4.84	5.33	5.25	13
	100 RB		5.42	5.36	5.28	13
16QAM	1 RB	20 MHz	5.91	6.26	6.14	13
	100 RB		6.43	6.23	6.29	13

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Result (dBm)	Limit (dBm)
1.4MHz	QPSK	Low	21.78	0.62	0.80	21.60	30.00
		Middle	21.50	0.62	0.80	21.32	30.00
		High	21.79	0.62	0.80	21.61	30.00
	16QAM	Low	20.98	0.62	0.80	20.80	30.00
		Middle	20.65	0.62	0.80	20.47	30.00
		High	20.79	0.62	0.80	20.61	30.00
3MHz	QPSK	Low	21.65	0.62	0.80	21.47	30.00
		Middle	21.37	0.62	0.80	21.19	30.00
		High	21.71	0.62	0.80	21.53	30.00
	16QAM	Low	21.30	0.62	0.80	21.12	30.00
		Middle	20.53	0.62	0.80	20.35	30.00
		High	20.70	0.62	0.80	20.52	30.00
5MHz	QPSK	Low	21.67	0.62	0.80	21.49	30.00
		Middle	21.42	0.62	0.80	21.24	30.00
		High	21.71	0.62	0.80	21.53	30.00
	16QAM	Low	20.60	0.62	0.80	20.42	30.00
		Middle	20.75	0.62	0.80	20.57	30.00
		High	20.79	0.62	0.80	20.61	30.00
10MHz	QPSK	Low	21.70	0.62	0.80	21.52	30.00
		Middle	21.60	0.62	0.80	21.42	30.00
		High	21.85	0.62	0.80	21.67	30.00
	16QAM	Low	21.36	0.62	0.80	21.18	30.00
		Middle	20.73	0.62	0.80	20.55	30.00
		High	20.80	0.62	0.80	20.62	30.00
15MHz	QPSK	Low	21.52	0.62	0.80	21.34	30.00
		Middle	21.37	0.62	0.80	21.19	30.00
		High	21.60	0.62	0.80	21.42	30.00
	16QAM	Low	21.19	0.62	0.80	21.01	30.00
		Middle	20.53	0.62	0.80	20.35	30.00
		High	21.01	0.62	0.80	20.83	30.00
20MHz	QPSK	Low	21.69	0.62	0.80	21.51	30.00
		Middle	21.54	0.62	0.80	21.36	30.00
		High	21.62	0.62	0.80	21.44	30.00
	16QAM	Low	20.94	0.62	0.80	20.76	30.00
		Middle	20.77	0.62	0.80	20.59	30.00
		High	21.19	0.62	0.80	21.01	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	23.32	23.23	23.04
		RB1#3	23.52	23.36	23.25
		RB1#5	23.29	23.18	23.06
		RB3#0	23.42	23.31	23.19
		RB3#3	23.38	23.27	23.18
		RB6#0	22.38	22.27	22.17
	16QAM	RB1#0	22.30	22.33	22.03
		RB1#3	22.49	22.53	22.30
		RB1#5	22.28	22.38	22.12
		RB3#0	22.61	22.25	22.30
		RB3#3	22.59	22.28	22.23
		RB6#0	21.43	21.37	21.10
3MHz	QPSK	RB1#0	23.36	23.25	23.13
		RB1#8	23.33	23.23	23.12
		RB1#14	23.33	23.18	23.13
		RB6#0	22.34	22.22	22.05
		RB6#9	22.28	22.16	22.07
		RB15#0	22.39	22.26	22.14
	16QAM	RB1#0	22.96	22.39	22.13
		RB1#8	22.92	22.39	22.17
		RB1#14	22.93	22.32	22.09
		RB6#0	21.45	21.25	21.01
		RB6#9	21.32	21.24	21.06
		RB15#0	21.44	21.21	21.19
5MHz	QPSK	RB1#0	23.25	23.18	23.03
		RB1#13	23.40	23.26	23.14
		RB1#24	23.31	23.14	23.04
		RB15#0	22.38	22.30	22.13
		RB15#10	22.37	22.20	22.20
		RB25#0	22.32	22.20	22.13
	16QAM	RB1#0	22.18	22.49	22.17
		RB1#13	22.31	22.56	22.18
		RB1#24	22.17	22.42	22.12
		RB15#0	21.39	21.25	21.17
		RB15#10	21.42	21.19	21.23
		RB25#0	21.42	21.24	21.14
10MHz	QPSK	RB1#0	23.32	23.27	23.19
		RB1#25	23.53	23.42	23.28
		RB1#49	23.28	23.16	23.14
		RB25#0	22.33	22.34	22.27
		RB25#25	22.46	22.19	22.25
		RB50#0	22.45	22.27	22.24
	16QAM	RB1#0	22.94	22.45	22.17
		RB1#25	23.13	22.49	22.30
		RB1#49	22.90	22.36	22.14
		RB25#0	21.39	21.37	21.38
		RB25#25	21.54	21.23	21.38
		RB50#0	21.45	21.25	21.29

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	10 MHz	4.96	5.33	4.96	13
	50 RB		5.42	5.22	5.33	13
16QAM	1 RB	10 MHz	6.32	5.74	5.36	13
	50 RB		6.46	6.17	6.20	13

ERP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Result (dBm)	Limit (dBm)
1.4MHz	QPSK	Low	23.52	-3.46	0.40	19.66	38.45
		Middle	23.36	-3.46	0.40	19.50	38.45
		High	23.25	-3.46	0.40	19.39	38.45
	16QAM	Low	22.61	-3.46	0.40	18.75	38.45
		Middle	22.53	-3.46	0.40	18.67	38.45
		High	22.30	-3.46	0.40	18.44	38.45
3MHz	QPSK	Low	23.36	-3.46	0.40	19.50	38.45
		Middle	23.25	-3.46	0.40	19.39	38.45
		High	23.13	-3.46	0.40	19.27	38.45
	16QAM	Low	22.96	-3.46	0.40	19.10	38.45
		Middle	22.39	-3.46	0.40	18.53	38.45
		High	22.17	-3.46	0.40	18.31	38.45
5MHz	QPSK	Low	23.40	-3.46	0.40	19.54	38.45
		Middle	23.26	-3.46	0.40	19.40	38.45
		High	23.14	-3.46	0.40	19.28	38.45
	16QAM	Low	22.31	-3.46	0.40	18.45	38.45
		Middle	22.56	-3.46	0.40	18.70	38.45
		High	22.18	-3.46	0.40	18.32	38.45
10MHz	QPSK	Low	23.53	-3.46	0.40	19.67	38.45
		Middle	23.42	-3.46	0.40	19.56	38.45
		High	23.28	-3.46	0.40	19.42	38.45
	16QAM	Low	23.13	-3.46	0.40	19.27	38.45
		Middle	22.49	-3.46	0.40	18.63	38.45
		High	22.30	-3.46	0.40	18.44	38.45

LTE Band 7**Conducted Output Power:**

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5MHz	QPSK	RB1#0	17.35	17.59	16.55
		RB1#13	17.53	17.65	16.67
		RB1#24	17.46	17.44	16.59
		RB15#0	16.49	16.64	16.60
		RB15#10	16.53	16.50	16.58
		RB25#0	16.44	16.55	16.56
	16QAM	RB1#0	16.26	16.86	16.67
		RB1#13	16.43	16.85	16.92
		RB1#24	16.38	16.75	16.98
		RB15#0	15.57	15.62	15.60
		RB15#10	15.55	15.52	15.54
		RB25#0	15.54	15.60	15.56
10MHz	QPSK	RB1#0	18.10	17.26	17.24
		RB1#25	18.31	17.22	17.61
		RB1#49	18.09	16.87	17.79
		RB25#0	17.23	16.19	16.32
		RB25#25	17.11	15.97	16.56
		RB50#0	17.21	16.07	16.45
	16QAM	RB1#0	17.72	16.43	16.19
		RB1#25	17.81	16.34	16.64
		RB1#49	17.71	16.02	16.78
		RB25#0	16.32	15.22	15.42
		RB25#25	16.18	14.99	15.69
		RB50#0	16.25	15.09	15.48
15MHz	QPSK	RB1#0	18.08	17.40	16.85
		RB1#38	18.22	17.17	17.35
		RB1#74	17.98	16.81	17.70
		RB36#0	17.34	16.35	16.14
		RB36#39	17.21	16.01	16.59
		RB75#0	17.26	16.20	16.38
	16QAM	RB1#0	17.68	16.51	16.26
		RB1#38	17.81	16.30	16.78
		RB1#74	17.57	15.93	17.08
		RB36#0	16.33	15.32	15.07
		RB36#39	16.21	15.00	15.57
		RB75#0	16.27	15.19	15.35
20MHz	QPSK	RB1#0	17.93	17.34	16.52
		RB1#50	18.37	17.32	17.37
		RB1#99	17.70	16.58	17.46
		RB50#0	17.31	16.32	15.88
		RB50#50	17.12	15.83	16.52
		RB100#0	17.26	16.11	16.28
	16QAM	RB1#0	17.25	16.54	16.12
		RB1#50	17.59	16.55	16.89
		RB1#99	16.98	15.78	17.08
		RB50#0	16.33	15.33	14.91
		RB50#50	16.14	14.89	15.51
		RB100#0	16.28	15.13	15.31

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	20 MHz	5.57	5.04	5.16	13
	100 RB		5.39	5.36	5.19	13
16QAM	1 RB	20 MHz	6.72	6.99	6.00	13
	100 RB		6.23	6.26	6.26	13

ERP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Result (dBm)	Limit (dBm)
5MHz	QPSK	Low	17.53	0.91	1.20	17.24	33.00
		Middle	17.65	0.91	1.20	17.36	33.00
		High	16.67	0.91	1.20	16.38	33.00
	16QAM	Low	16.43	0.91	1.20	16.14	33.00
		Middle	16.86	0.91	1.20	16.57	33.00
		High	16.98	0.91	1.20	16.69	33.00
10MHz	QPSK	Low	18.31	0.91	1.20	18.02	33.00
		Middle	17.26	0.91	1.20	16.97	33.00
		High	17.79	0.91	1.20	17.50	33.00
	16QAM	Low	17.81	0.91	1.20	17.52	33.00
		Middle	16.43	0.91	1.20	16.14	33.00
		High	16.78	0.91	1.20	16.49	33.00
15MHz	QPSK	Low	18.22	0.91	1.20	17.93	33.00
		Middle	17.40	0.91	1.20	17.11	33.00
		High	17.70	0.91	1.20	17.41	33.00
	16QAM	Low	17.81	0.91	1.20	17.52	33.00
		Middle	16.51	0.91	1.20	16.22	33.00
		High	17.08	0.91	1.20	16.79	33.00
20MHz	QPSK	Low	18.37	0.91	1.20	18.08	33.00
		Middle	17.34	0.91	1.20	17.05	33.00
		High	17.46	0.91	1.20	17.17	33.00
	16QAM	Low	17.59	0.91	1.20	17.30	33.00
		Middle	16.55	0.91	1.20	16.26	33.00
		High	17.08	0.91	1.20	16.79	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	22.50	22.50	22.49
		RB1#3	22.77	22.69	22.75
		RB1#5	22.52	22.51	22.52
		RB3#0	22.62	22.66	22.67
		RB3#3	22.63	22.61	22.74
		RB6#0	21.61	21.58	21.57
	16QAM	RB1#0	21.55	21.69	21.51
		RB1#3	21.72	21.85	21.74
		RB1#5	21.56	21.70	21.58
		RB3#0	21.79	21.60	21.74
		RB3#3	21.89	21.63	21.69
		RB6#0	20.63	20.64	20.59
3MHz	QPSK	RB1#0	22.52	22.57	22.60
		RB1#8	22.54	22.53	22.58
		RB1#14	22.55	22.56	22.63
		RB6#0	21.52	21.51	21.57
		RB6#9	21.53	21.49	21.55
		RB15#0	21.60	21.59	21.61
	16QAM	RB1#0	22.08	21.72	21.60
		RB1#8	22.10	21.75	21.61
		RB1#14	22.10	21.69	21.62
		RB6#0	20.66	20.62	20.58
		RB6#9	20.59	20.63	20.57
		RB15#0	20.68	20.58	20.72
5MHz	QPSK	RB1#0	22.38	22.42	22.43
		RB1#13	22.58	22.57	22.59
		RB1#24	22.49	22.48	22.50
		RB15#0	21.72	21.52	21.69
		RB15#10	21.55	21.67	21.49
		RB25#0	21.59	21.60	21.60
	16QAM	RB1#0	21.35	21.73	21.54
		RB1#13	21.46	21.92	21.61
		RB1#24	21.39	21.80	21.60
		RB15#0	20.74	20.57	20.76
		RB15#10	20.57	20.70	20.58
		RB25#0	20.69	20.68	20.66
10MHz	QPSK	RB1#0	22.42	22.53	22.49
		RB1#25	22.68	22.66	22.76
		RB1#49	22.51	22.60	22.64
		RB25#0	21.77	21.53	21.46
		RB25#25	21.70	21.74	21.48
		RB50#0	21.76	21.66	21.48
	16QAM	RB1#0	21.97	21.60	21.55
		RB1#25	22.22	21.91	21.72
		RB1#49	22.16	21.77	21.62
		RB25#0	20.84	20.64	20.62
		RB25#25	20.86	20.83	20.63
		RB50#0	20.84	20.75	20.57

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	3.88	4.29	5.19	13
	50 RB		5.28	5.36	5.25	13
16QAM	1 RB	10 MHz	4.78	5.28	5.68	13
	50 RB		6.14	6.29	6.09	13

ERP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Result (dBm)	Limit (dBm)
1.4MHz	QPSK	Low	22.77	-3.63	0.40	18.74	34.77
		Middle	22.69	-3.63	0.40	18.66	34.77
		High	22.75	-3.63	0.40	18.72	34.77
	16QAM	Low	21.89	-3.63	0.40	17.86	34.77
		Middle	21.85	-3.63	0.40	17.82	34.77
		High	21.74	-3.63	0.40	17.71	34.77
3MHz	QPSK	Low	22.55	-3.63	0.40	18.52	34.77
		Middle	22.57	-3.63	0.40	18.54	34.77
		High	22.63	-3.63	0.40	18.60	34.77
	16QAM	Low	22.10	-3.63	0.40	18.07	34.77
		Middle	21.75	-3.63	0.40	17.72	34.77
		High	21.62	-3.63	0.40	17.59	34.77
5MHz	QPSK	Low	22.58	-3.63	0.40	18.55	34.77
		Middle	22.57	-3.63	0.40	18.54	34.77
		High	22.59	-3.63	0.40	18.56	34.77
	16QAM	Low	21.46	-3.63	0.40	17.43	34.77
		Middle	21.92	-3.63	0.40	17.89	34.77
		High	21.61	-3.63	0.40	17.58	34.77
10MHz	QPSK	Low	22.68	-3.63	0.40	18.65	34.77
		Middle	22.66	-3.63	0.40	18.63	34.77
		High	22.76	-3.63	0.40	18.73	34.77
	16QAM	Low	22.22	-3.63	0.40	18.19	34.77
		Middle	21.91	-3.63	0.40	17.88	34.77
		High	21.72	-3.63	0.40	17.69	34.77

LTE Band 17

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5 MHz	QPSK	RB1#0	22.42	22.45	22.42
		RB1#13	22.57	22.59	22.57
		RB1#24	22.50	22.46	22.44
		RB15#0	21.53	21.49	21.69
		RB15#10	21.69	21.58	21.48
		RB25#0	21.61	21.55	21.56
	16QAM	RB1#0	21.32	21.76	21.53
		RB1#13	21.51	21.90	21.67
		RB1#24	21.44	21.78	21.54
		RB15#0	20.61	20.53	20.79
		RB15#10	20.82	20.59	20.57
		RB25#0	20.74	20.61	20.64
10 MHz	QPSK	RB1#0	22.43	22.48	22.48
		RB1#25	22.69	22.67	22.72
		RB1#49	22.54	22.55	22.58
		RB25#0	21.49	21.46	21.44
		RB25#25	21.60	21.54	21.46
		RB50#0	21.56	21.48	21.50
	16QAM	RB1#0	22.00	21.62	21.48
		RB1#25	22.27	21.88	21.72
		RB1#49	22.11	21.69	21.56
		RB25#0	20.59	20.57	20.62
		RB25#25	20.74	20.61	20.62
		RB50#0	20.63	20.56	20.57

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	10 MHz	4.46	5.30	5.25	13
	50RB		5.22	5.28	5.10	13
16QAM	1 RB	10 MHz	5.54	5.80	6.03	13
	50 RB		6.29	6.14	6.06	13

ERP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Result (dBm)	Limit (dBm)
5MHz	QPSK	Low	22.57	-3.60	0.40	18.57	34.77
		Middle	22.59	-3.60	0.40	18.59	34.77
		High	22.57	-3.60	0.40	18.57	34.77
	16QAM	Low	21.51	-3.60	0.40	17.51	34.77
		Middle	21.90	-3.60	0.40	17.90	34.77
		High	21.67	-3.60	0.40	17.67	34.77
10MHz	QPSK	Low	22.69	-3.60	0.40	18.69	34.77
		Middle	22.67	-3.60	0.40	18.67	34.77
		High	22.72	-3.60	0.40	18.72	34.77
	16QAM	Low	22.27	-3.60	0.40	18.27	34.77
		Middle	21.88	-3.60	0.40	17.88	34.77
		High	21.72	-3.60	0.40	17.72	34.77

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	21.97	22.41	22.64
		RB1#13	22.13	22.53	22.76
		RB1#24	21.99	22.51	22.62
		RB15#0	21.09	21.43	21.72
		RB15#10	21.01	21.5	21.72
		RB25#0	21.02	21.45	21.7
	16QAM	RB1#0	21.07	21.6	21.63
		RB1#13	21.16	21.77	21.75
		RB1#24	21.02	21.74	21.6
		RB15#0	20.08	20.48	20.68
		RB15#10	20.04	20.53	20.64
		RB25#0	20.11	20.45	20.76
10 MHz	QPSK	RB1#0	22.08	22.42	22.95
		RB1#25	22.27	22.77	23.09
		RB1#49	21.96	22.68	22.83
		RB25#0	21.11	21.47	21.82
		RB25#25	21	21.56	21.8
		RB50#0	21.04	21.51	21.82
	16QAM	RB1#0	21.33	21.33	21.95
		RB1#25	21.47	21.67	22.04
		RB1#49	21.15	21.57	21.87
		RB25#0	20.14	20.49	20.85
		RB25#25	19.99	20.56	20.8
		RB50#0	20.04	20.5	20.81
15 MHz	QPSK	RB1#0	22.08	22.28	22.87
		RB1#38	22.1	22.62	22.9
		RB1#74	21.92	22.68	22.76
		RB36#0	21.19	21.53	21.95
		RB36#39	21.06	21.72	21.91
		RB75#0	21.09	21.61	21.92
	16QAM	RB1#0	21.25	21.19	22.03
		RB1#38	21.28	21.54	22.05
		RB1#74	21.13	21.62	21.87
		RB36#0	20.12	20.43	20.96
		RB36#39	20.01	20.61	20.91
		RB75#0	20.07	20.62	20.88
20MHz	QPSK	RB1#0	21.93	22.02	22.82
		RB1#50	22.35	22.84	23.21
		RB1#99	21.7	22.6	22.67
		RB50#0	21.16	21.46	21.9
		RB50#50	21.06	21.71	21.85
		RB100#0	21.08	21.62	21.89
	16QAM	RB1#0	21	21.02	22.02
		RB1#50	21.38	21.85	22.39
		RB1#99	20.8	21.58	21.89
		RB50#0	20.19	20.53	20.93
		RB50#50	20.02	20.73	20.88
		RB100#0	20.11	20.62	20.92

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	20 MHz	3.72	3.46	4.83	13
	100 RB		5.25	5.86	4.16	13
16QAM	1 RB	20 MHz	5.59	4.33	5.64	13
	100 RB		5.00	4.48	4.52	13

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Result (dBm)	Limit (dBm)
5MHz	QPSK	Low	22.13	0.88	1.20	21.81	33.00
		Middle	22.53	0.88	1.20	22.21	33.00
		High	22.76	0.88	1.20	22.44	33.00
	16QAM	Low	21.16	0.88	1.20	20.84	33.00
		Middle	21.77	0.88	1.20	21.45	33.00
		High	21.75	0.88	1.20	21.43	33.00
10MHz	QPSK	Low	22.27	0.88	1.20	21.95	33.00
		Middle	22.77	0.88	1.20	22.45	33.00
		High	23.09	0.88	1.20	22.77	33.00
	16QAM	Low	21.47	0.88	1.20	21.15	33.00
		Middle	21.67	0.88	1.20	21.35	33.00
		High	22.04	0.88	1.20	21.72	33.00
15MHz	QPSK	Low	22.10	0.88	1.20	21.78	33.00
		Middle	22.68	0.88	1.20	22.36	33.00
		High	22.90	0.88	1.20	22.58	33.00
	16QAM	Low	21.28	0.88	1.20	20.96	33.00
		Middle	21.62	0.88	1.20	21.30	33.00
		High	22.05	0.88	1.20	21.73	33.00
20MHz	QPSK	Low	22.35	0.88	1.20	22.03	33.00
		Middle	22.84	0.88	1.20	22.52	33.00
		High	23.21	0.88	1.20	22.89	33.00
	16QAM	Low	21.38	0.88	1.20	21.06	33.00
		Middle	21.85	0.88	1.20	21.53	33.00
		High	22.39	0.88	1.20	22.07	33.00

LTE Band 66

Conducted Output Power:

Channel Bandwidth	Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4MHz	QPSK	RB1#0	22.30	21.99	22.24
		RB1#3	22.37	22.18	22.39
		RB1#5	22.29	21.97	22.21
		RB3#0	22.44	22.1	22.36
		RB3#3	22.43	22.08	22.37
		RB6#0	21.37	21.08	21.29
	16QAM	RB1#0	21.31	21.12	21.27
		RB1#3	21.48	21.34	21.47
		RB1#5	21.32	21.12	21.28
		RB3#0	21.62	21.08	21.41
		RB3#3	21.6	21.1	21.4
		RB6#0	20.4	20.13	20.29
3MHz	QPSK	RB1#0	22.78	22.46	22.28
		RB1#8	22.75	22.49	22.31
		RB1#14	22.71	22.43	22.27
		RB6#0	21.74	21.4	21.23
		RB6#9	21.74	21.42	21.22
		RB15#0	21.79	21.48	21.28
	16QAM	RB1#0	22.4	21.66	21.32
		RB1#8	22.4	21.6	21.29
		RB1#14	22.4	21.59	21.24
		RB6#0	20.85	20.48	20.2
		RB6#9	20.82	20.47	20.18
		RB15#0	20.88	20.48	20.33
5MHz	QPSK	RB1#0	22.72	22.44	22.17
		RB1#13	22.89	22.54	22.27
		RB1#24	22.71	22.38	22.14
		RB15#0	21.79	21.5	21.36
		RB15#10	21.79	21.51	21.26
		RB25#0	21.76	21.49	21.25
	16QAM	RB1#0	21.65	21.73	21.28
		RB1#13	21.75	21.84	21.34
		RB1#24	21.64	21.68	21.23
		RB15#0	20.86	20.53	20.38
		RB15#10	20.89	20.49	20.32
		RB25#0	20.87	20.48	20.32
10MHz	QPSK	RB1#0	22.69	22.47	22.29
		RB1#25	22.93	22.68	22.45
		RB1#49	22.64	22.42	22.23
		RB25#0	21.82	21.54	21.4
		RB25#25	21.86	21.51	21.22
		RB50#0	21.85	21.53	21.31
	16QAM	RB1#0	22.38	21.61	21.32
		RB1#25	22.5	21.8	21.44
		RB1#49	22.29	21.56	21.24
		RB25#0	20.9	20.59	20.5
		RB25#25	20.94	20.56	20.34
		RB50#0	20.9	20.56	20.34

15MHz	QPSK	RB1#0	22.66	22.47	22.29
		RB1#38	22.89	22.55	22.37
		RB1#74	22.57	22.43	22.23
		RB36#0	21.84	21.67	21.49
		RB36#39	21.86	21.6	21.35
		RB75#0	21.89	21.6	21.48
	16QAM	RB1#0	22.34	21.61	21.73
		RB1#38	22.44	21.73	21.75
		RB1#74	22.22	21.55	21.66
		RB36#0	20.84	20.65	20.49
		RB36#39	20.89	20.57	20.32
		RB75#0	20.87	20.62	20.4
20MHz	QPSK	RB1#0	22.51	22.33	22.08
		RB1#50	22.91	22.72	22.51
		RB1#99	22.44	22.31	22.04
		RB50#0	21.8	21.65	21.49
		RB50#50	21.85	21.51	21.24
		RB100#0	21.79	21.62	21.41
	16QAM	RB1#0	21.88	21.56	21.63
		RB1#50	22.25	21.97	22.09
		RB1#99	21.77	21.52	21.59
		RB50#0	20.81	20.67	20.49
		RB50#50	20.84	20.58	20.23
		RB100#0	20.83	20.62	20.42

PAR:

Test Modulation		Channel Bandwidth	Low Channel PAR (dB)	Middle Channel PAR (dB)	High Channel PAR (dB)	Limit (dB)
QPSK	1 RB	20 MHz	5.62	4.72	4.90	13
	100 RB		5.51	5.42	5.16	13
16QAM	1 RB	20 MHz	6.58	5.83	5.45	13
	100 RB		6.58	6.41	6.06	13

EIRP:

Channel Bandwidth	Modulation	Channel	Conducted Power (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Result (dBm)	Limit (dBm)
1.4MHz	QPSK	Low	22.44	0.62	0.80	22.26	30.00
		Middle	22.18	0.62	0.80	22.00	30.00
		High	22.39	0.62	0.80	22.21	30.00
	16QAM	Low	21.62	0.62	0.80	21.44	30.00
		Middle	21.34	0.62	0.80	21.16	30.00
		High	21.47	0.62	0.80	21.29	30.00
3MHz	QPSK	Low	22.78	0.62	0.80	22.60	30.00
		Middle	22.49	0.62	0.80	22.31	30.00
		High	22.31	0.62	0.80	22.13	30.00
	16QAM	Low	22.40	0.62	0.80	22.22	30.00
		Middle	21.66	0.62	0.80	21.48	30.00
		High	21.32	0.62	0.80	21.14	30.00
5MHz	QPSK	Low	22.89	0.62	0.80	22.71	30.00
		Middle	22.54	0.62	0.80	22.36	30.00
		High	22.27	0.62	0.80	22.09	30.00
	16QAM	Low	21.75	0.62	0.80	21.57	30.00
		Middle	21.84	0.62	0.80	21.66	30.00
		High	21.34	0.62	0.80	21.16	30.00
10MHz	QPSK	Low	22.93	0.62	0.80	22.75	30.00
		Middle	22.68	0.62	0.80	22.50	30.00
		High	22.45	0.62	0.80	22.27	30.00
	16QAM	Low	22.50	0.62	0.80	22.32	30.00
		Middle	21.80	0.62	0.80	21.62	30.00
		High	21.44	0.62	0.80	21.26	30.00
15MHz	QPSK	Low	22.89	0.62	0.80	22.71	30.00
		Middle	22.55	0.62	0.80	22.37	30.00
		High	22.37	0.62	0.80	22.19	30.00
	16QAM	Low	22.44	0.62	0.80	22.26	30.00
		Middle	21.73	0.62	0.80	21.55	30.00
		High	21.75	0.62	0.80	21.57	30.00
20MHz	QPSK	Low	22.91	0.62	0.80	22.73	30.00
		Middle	22.72	0.62	0.80	22.54	30.00
		High	22.51	0.62	0.80	22.33	30.00
	16QAM	Low	22.25	0.62	0.80	22.07	30.00
		Middle	21.97	0.62	0.80	21.79	30.00
		High	22.09	0.62	0.80	21.91	30.00

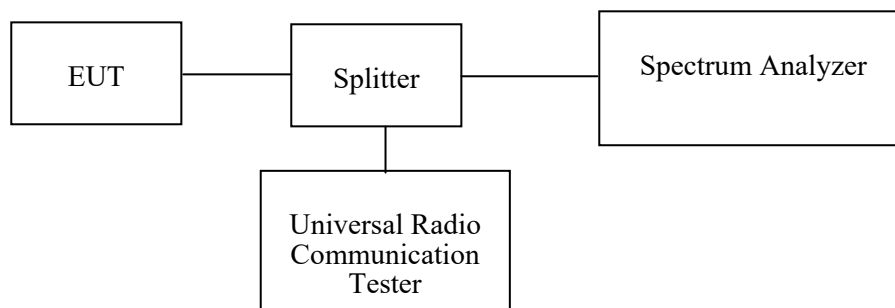
FCC §2.1049, §22.917, §22.905 & §24.238 & §27.53- OCCUPIED BANDWIDTH**Applicable Standard**

FCC §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 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	2020-07-07	2021-07-07
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	2021-05-06	2022-05-05
Unknown	Attenuator	UNAT-3+	15529	2020-09-06	2021-09-06
R&S	Universal Radio Communication Tester	CMU200	106 891	2020-09-23	2021-09-22
R&S	Wideband Radio Communication Tester	CMW500	110479	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:	26.9~27.5 °C
Relative Humidity:	64~70 %
ATM Pressure:	100.3~100.5kPa
Tester:	Lay Lei
Test Date:	2021.05.29~2021.06.22

Test Mode: Transmitting

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

GSM:

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	GSM	0.246	0.246	0.246	0.321	0.321	0.317
	EDGE	0.246	0.244	0.244	0.314	0.311	0.317
PCS	GSM	0.244	0.244	0.246	0.319	0.320	0.322
	EDGE	0.242	0.244	0.246	0.320	0.322	0.324

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	4.192	4.192	4.172	4.741	4.744	4.750
	HSDPA	4.192	4.212	4.212	4.757	4.855	4.840
	HSUPA	4.192	4.192	4.192	4.761	4.949	4.761
WCDMA Band 5	Rel 99	4.172	4.172	4.172	4.750	4.755	4.739
	HSDPA	4.172	4.192	4.172	4.724	4.755	4.766
	HSUPA	4.172	4.192	4.192	4.732	4.844	4.755

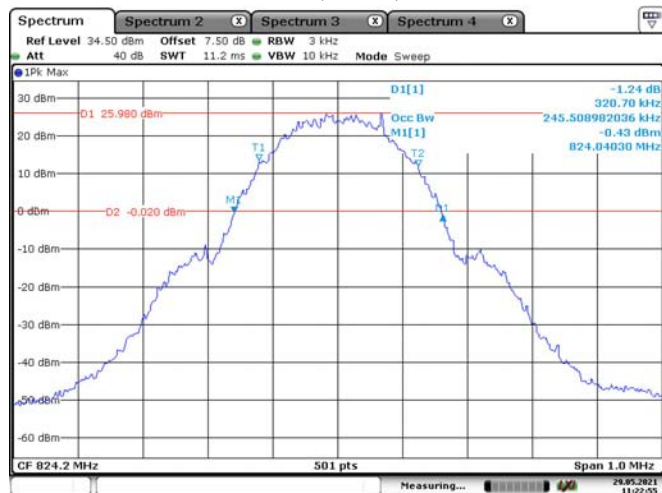
LTE Bands:

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	1.102	1.102	1.108	1.302	1.320	1.338
		16QAM	1.108	1.096	1.102	1.326	1.284	1.302
	3 MHz	QPSK	2.683	2.683	2.683	2.880	2.880	2.880
		16QAM	2.683	2.683	2.683	2.892	2.892	2.880
	5 MHz	QPSK	4.511	4.511	4.491	4.960	4.960	4.940
		16QAM	4.511	4.511	4.531	4.920	4.960	4.980
	10 MHz	QPSK	8.942	8.942	8.942	9.640	9.560	9.680
		16QAM	8.942	8.942	8.981	9.600	9.600	9.600
	15 MHz	QPSK	13.533	13.473	13.533	14.820	14.640	14.760
		16QAM	13.533	13.533	13.533	14.700	14.700	14.700
LTE Band 4	1.4 MHz	QPSK	17.964	17.964	17.964	19.280	19.280	19.520
		16QAM	18.044	17.964	17.964	19.280	19.360	19.360
	3 MHz	QPSK	1.096	1.108	1.102	1.296	1.320	1.290
		16QAM	1.102	1.096	1.102	1.326	1.290	1.290
	5 MHz	QPSK	2.695	2.695	2.683	2.868	2.880	2.880
		16QAM	2.683	2.683	2.683	2.892	2.880	2.880
	10 MHz	QPSK	4.511	4.511	4.491	4.960	4.960	4.940
		16QAM	4.491	4.511	4.511	5.160	4.940	4.980
	15 MHz	QPSK	8.981	8.942	8.942	10.040	9.600	9.680
		16QAM	8.942	8.981	8.942	9.560	9.680	9.680
LTE Band 4	20 MHz	QPSK	13.533	13.473	13.473	14.760	14.700	14.820
		16QAM	13.533	13.473	13.533	14.700	14.700	14.760
	20 MHz	QPSK	17.964	17.884	17.964	19.200	19.280	19.600
		16QAM	18.044	17.964	17.964	19.360	19.440	19.360

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	1.102	1.302	1.314	1.296
		16QAM	1.096	1.090	1.102	1.326	1.290	1.296
	3 MHz	QPSK	2.683	2.683	2.683	2.880	2.868	2.892
		16QAM	2.683	2.683	2.683	2.880	2.880	2.868
	5 MHz	QPSK	4.511	4.511	4.491	4.940	4.960	4.920
		16QAM	4.491	4.511	4.511	4.920	4.960	4.960
LTE Band 7	10 MHz	QPSK	8.981	8.942	8.942	9.680	9.560	9.640
		16QAM	8.942	8.942	8.942	9.520	9.640	9.960
	5 MHz	QPSK	4.511	4.511	4.511	4.980	4.940	4.940
		16QAM	4.491	4.511	4.511	4.940	4.960	4.980
	10 MHz	QPSK	8.942	8.942	8.942	9.720	9.640	9.640
		16QAM	8.942	8.942	8.942	9.600	9.560	9.600
LTE Band 12	15 MHz	QPSK	13.533	13.413	13.473	14.880	14.700	14.760
		16QAM	13.533	13.473	13.473	14.760	14.700	14.700
	20 MHz	QPSK	17.964	17.884	17.964	19.360	19.280	19.520
		16QAM	17.964	17.884	17.884	19.360	19.280	19.360
	1.4 MHz	QPSK	1.096	1.102	1.102	1.302	1.308	1.296
		16QAM	1.102	1.090	1.102	1.320	1.284	1.296
LTE Band 17	3 MHz	QPSK	2.683	2.695	2.683	2.880	2.868	2.892
		16QAM	2.683	2.683	2.683	2.880	2.880	2.880
	5 MHz	QPSK	4.531	4.531	4.511	5.180	5.160	5.120
		16QAM	4.531	4.531	4.531	5.140	5.220	5.200
	10 MHz	QPSK	9.022	8.981	8.942	10.000	9.880	9.840
		16QAM	8.981	8.981	8.942	9.800	9.880	9.840
LTE Band 41	5 MHz	QPSK	4.531	4.511	4.511	5.220	5.120	5.140
		16QAM	4.531	4.531	4.551	5.160	5.180	5.180
	10 MHz	QPSK	8.942	8.942	8.942	9.920	9.800	9.960
		16QAM	8.942	8.821	8.942	9.760	9.320	9.680
	15 MHz	QPSK	4.531	4.491	4.511	5.093	4.940	4.900
		16QAM	4.511	4.511	4.511	4.960	5.200	4.960
LTE Band 66	10 MHz	QPSK	8.942	8.942	8.942	9.720	9.760	9.600
		16QAM	8.942	8.942	8.942	9.520	9.520	10.280
	20 MHz	QPSK	13.533	13.473	13.473	15.540	15.480	15.420
		16QAM	13.533	13.533	13.533	15.660	15.780	16.500
	1.4 MHz	QPSK	1.102	1.102	1.102	1.296	1.320	1.284
		16QAM	1.108	1.096	1.102	1.320	1.290	1.290
	3 MHz	QPSK	2.695	2.695	2.683	2.868	2.880	2.892
		16QAM	2.683	2.683	2.683	2.892	2.880	2.868
	5 MHz	QPSK	4.531	4.511	4.511	5.160	5.180	5.140
		16QAM	4.511	4.551	4.551	5.140	5.180	5.180
	10 MHz	QPSK	8.981	8.981	8.981	9.960	9.800	9.920
		16QAM	8.981	8.942	8.981	9.840	9.800	9.880
LTE Band 66	15 MHz	QPSK	13.593	13.473	13.533	15.240	15.180	15.120
		16QAM	13.533	13.593	13.533	15.180	15.180	15.060
	20 MHz	QPSK	17.964	17.964	17.884	19.680	19.600	19.840
		16QAM	18.044	17.964	17.964	19.680	19.760	19.520

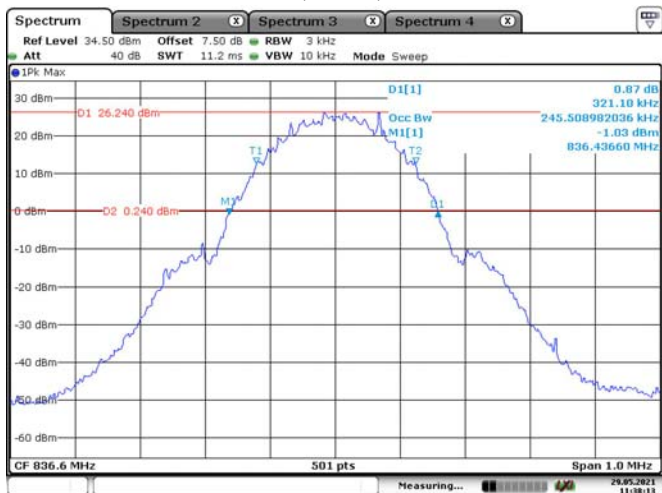
GSM:

Cellular 850 Band, GSM, Low Channel



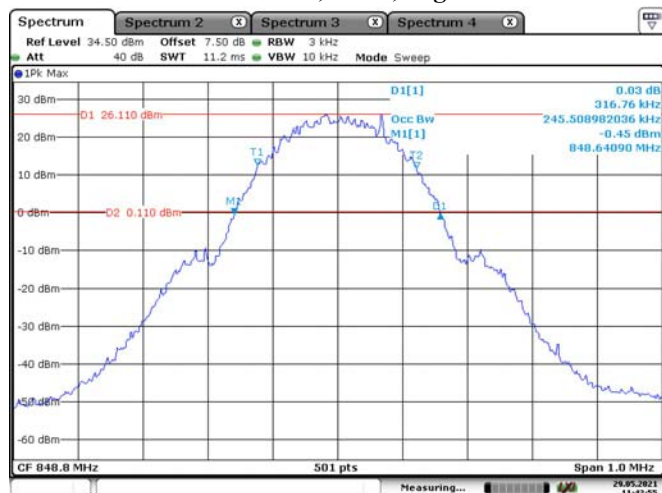
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Cellular 850 Band, GSM, Middle Channel



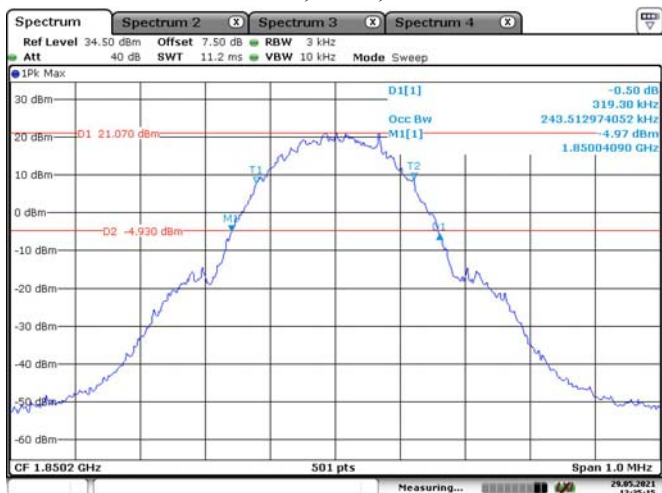
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Cellular 850 Band, GSM, High Channel



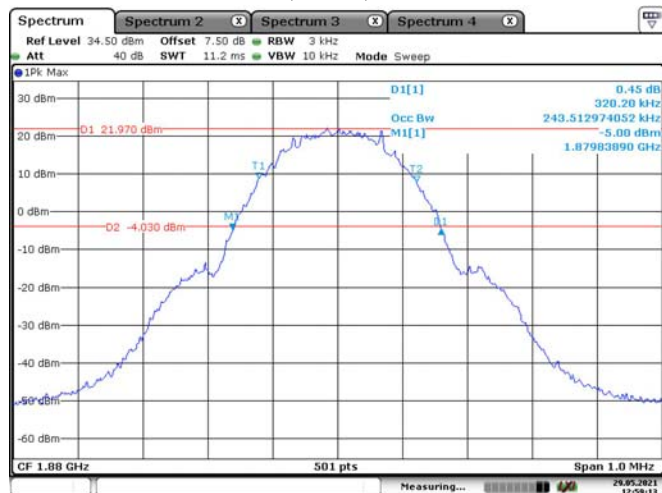
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PCS 1900 Band, GSM, Low Channel



Date: 29.MAY.2021 12:35:15

PCS 1900 Band, GSM, Middle Channel



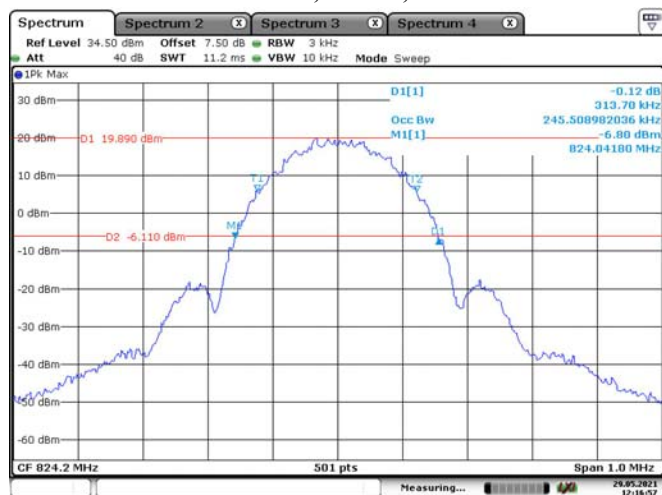
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PCS 1900 Band, GSM, High Channel



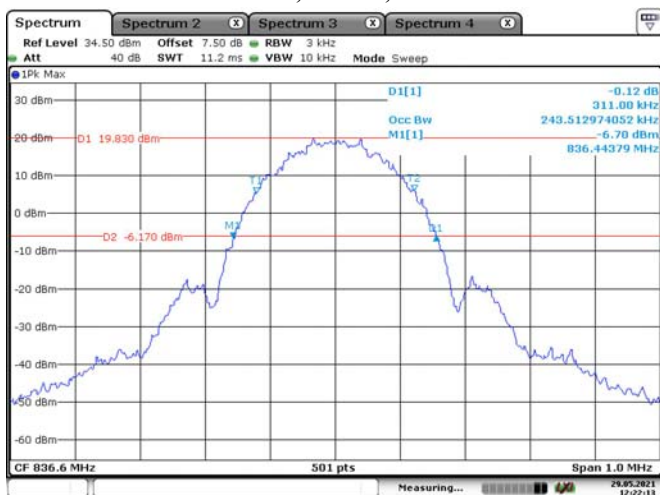
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Cellular 850 Band, EDGE, Low Channel



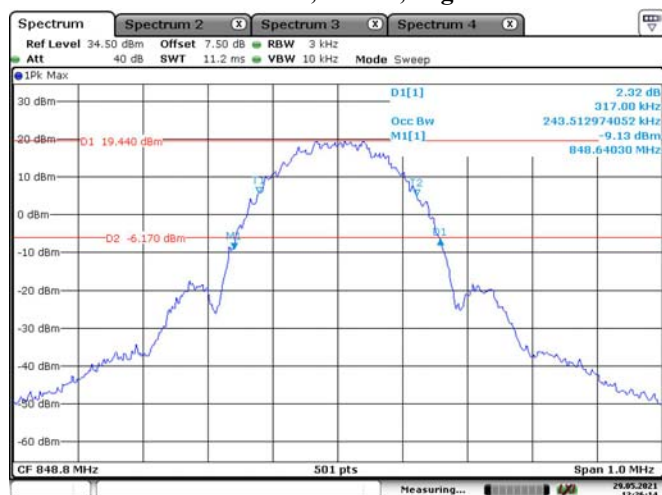
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Cellular 850 Band, EDGE, Middle Channel



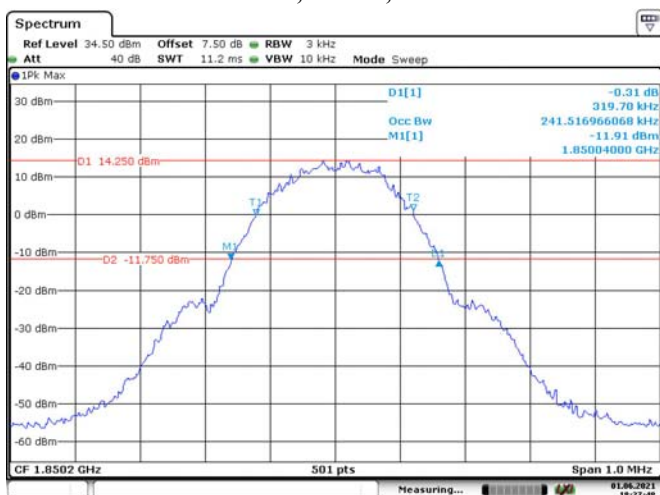
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Cellular 850 Band, EDGE, High Channel



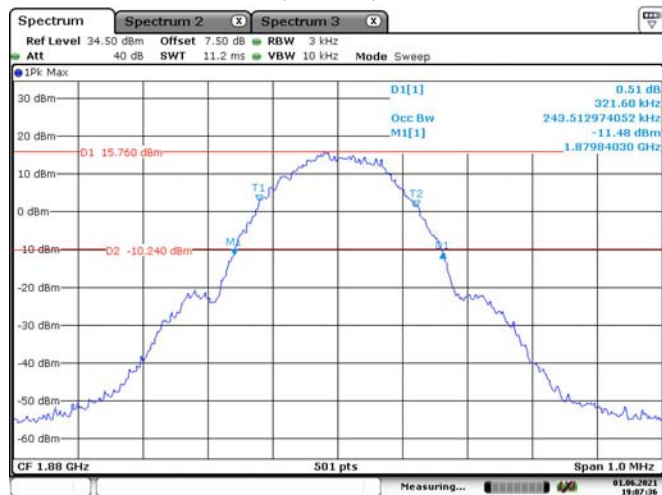
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PCS 1900 Band, EDGE, Low Channel



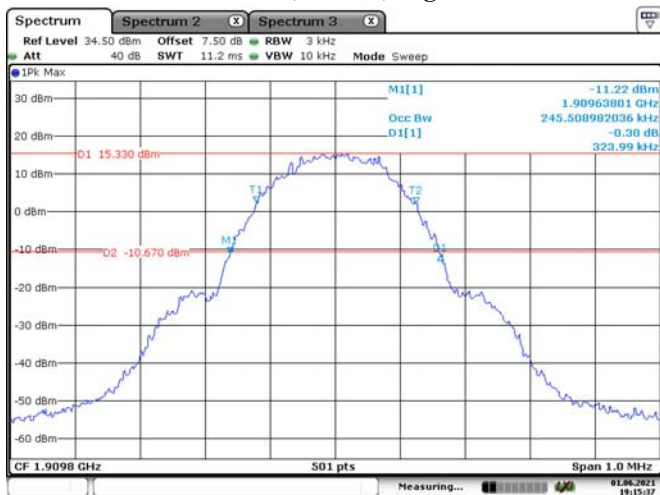
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PCS 1900 Band, EDGE, Middle Channel



Date: 1.JUN.2021 19:07:37

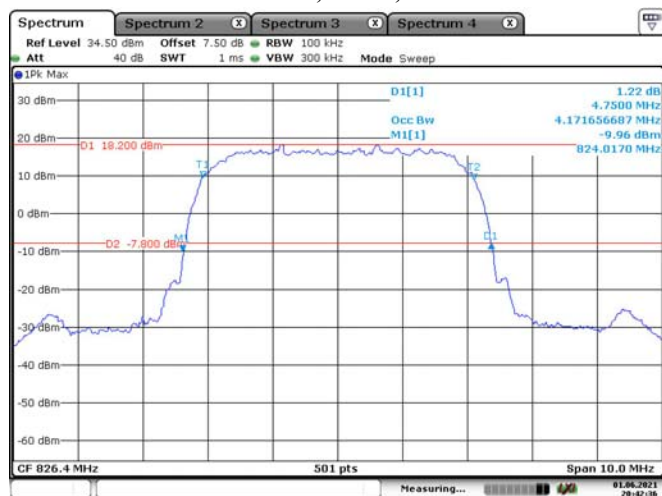
PCS 1900 Band, EDGE, High Channel



Date: 1.JUN.2021 19:15:37

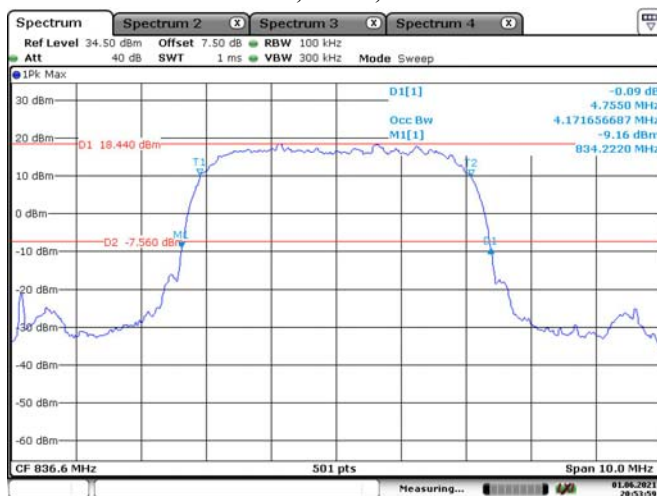
WCDMA Band 5:

WCDMA Band V, Rel99, Low Channel



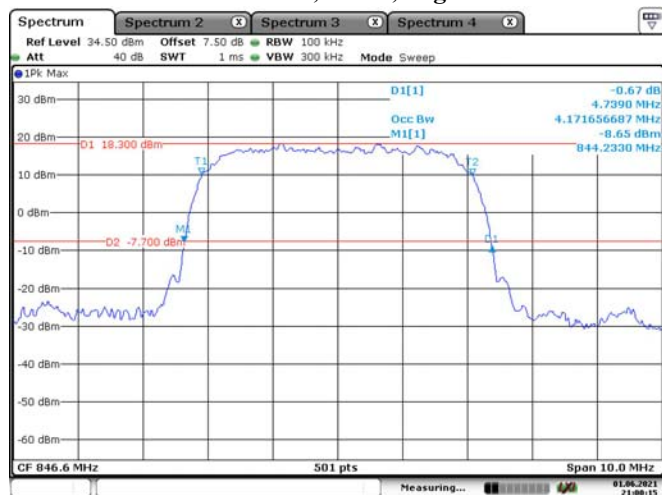
Date: 1 JUN 2021 20:42:36

WCDMA Band V, Rel99, Middle Channel



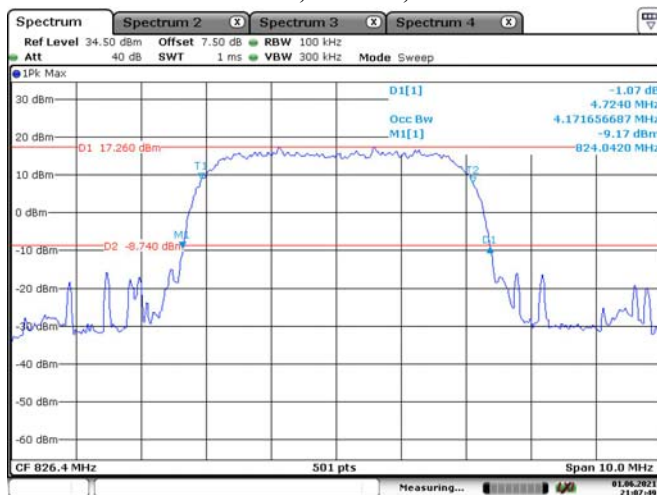
Date: 1 JUN 2021 20:54:00

WCDMA Band V, Rel99, High Channel



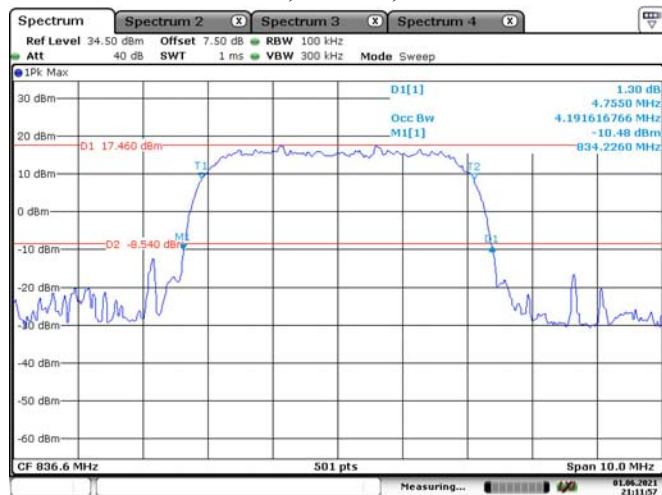
Date: 1 JUN 2021 21:00:15

WCDMA Band V, HSDPA, Low Channel



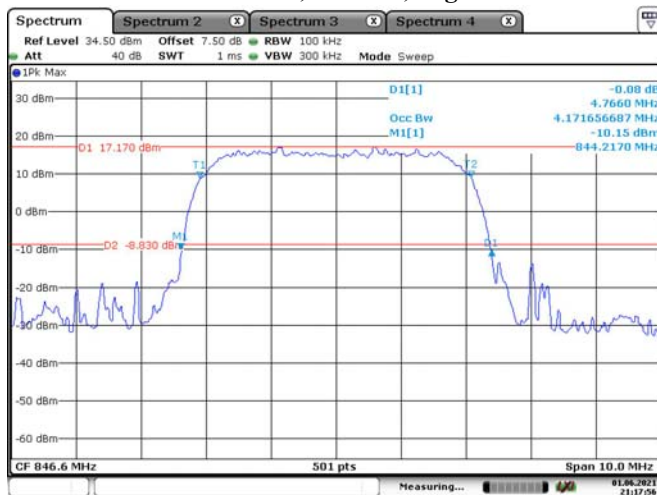
Date: 1 JUN 2021 21:07:49

WCDMA Band V, HSDPA, Middle Channel



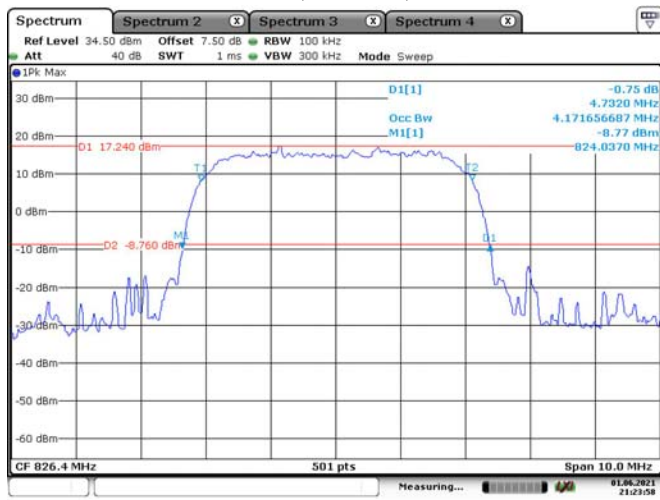
Date: 1 JUN 2021 21:11:57

WCDMA Band V, HSDPA, High Channel



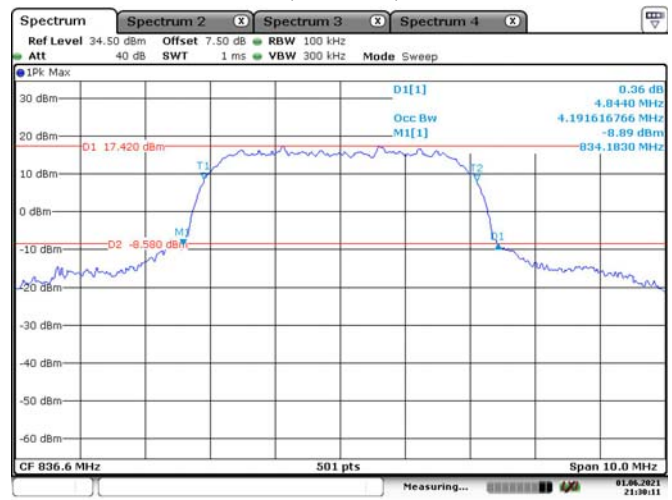
Date: 1 JUN 2021 21:17:56

WCDMA Band V, HSUPA, Low Channel



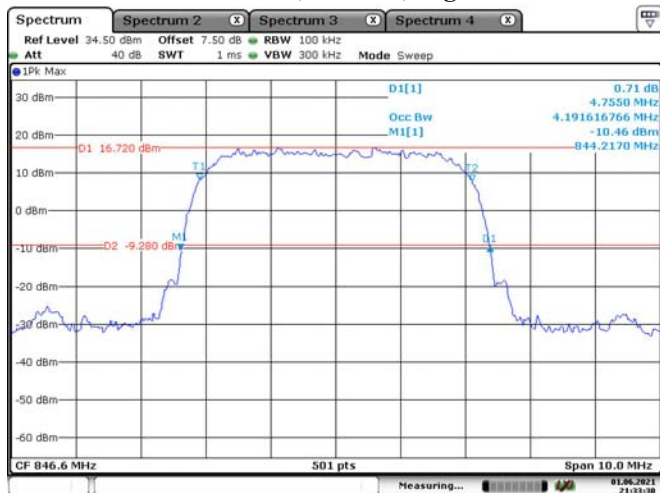
Date: 1.JUN.2021 21:23:58

WCDMA Band V, HSUPA, Middle Channel



Date: 1.JUN.2021 21:30:11

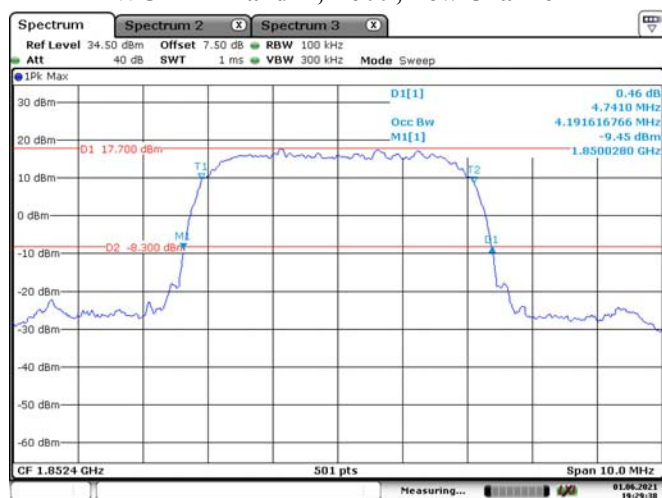
WCDMA Band V, HSUPA, High Channel



Date: 1.JUN.2021 21:33:30

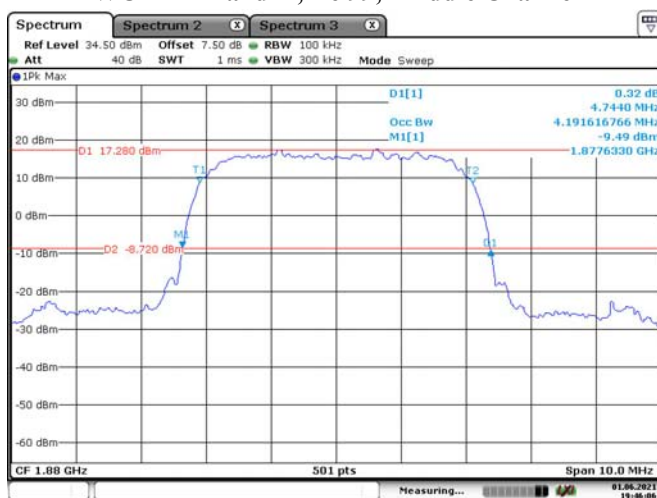
WCDMA Band 2:

WCDMA Band II, Rel99, Low Channel



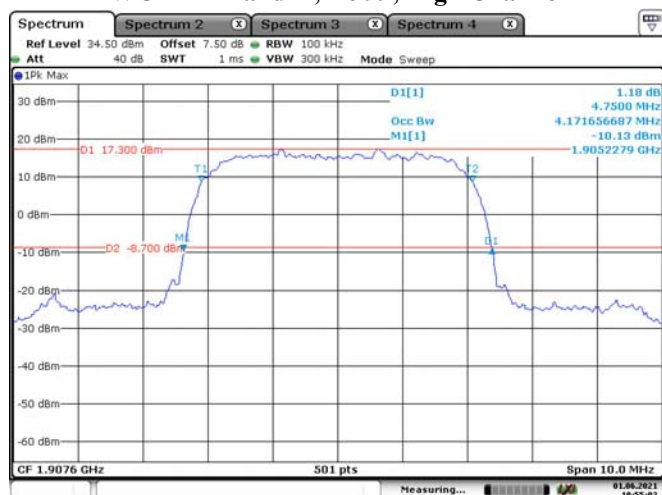
Date: 1.JUN.2021 19:29:38

WCDMA Band II, Rel99, Middle Channel



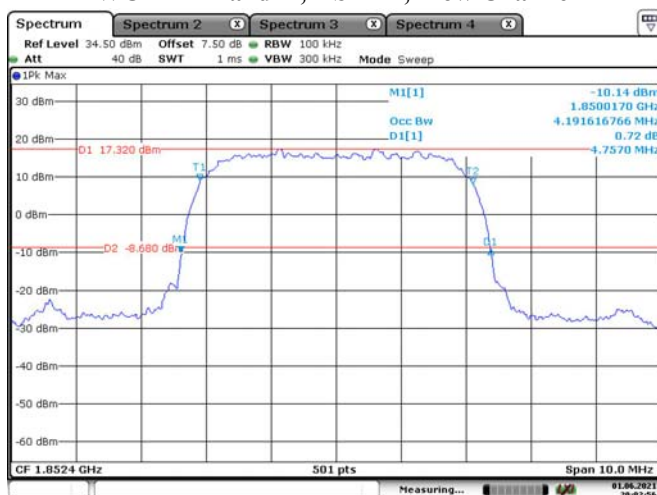
Date: 1.JUN.2021 19:46:06

WCDMA Band II, Rel99, High Channel



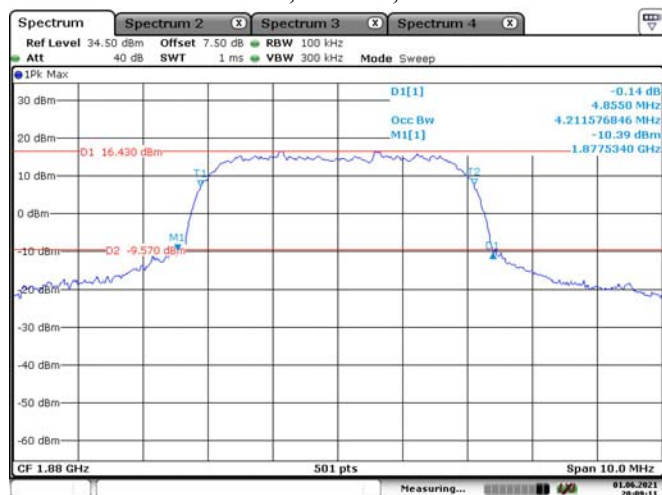
Date: 1.JUN.2021 19:55:02

WCDMA Band II, HSDPA, Low Channel



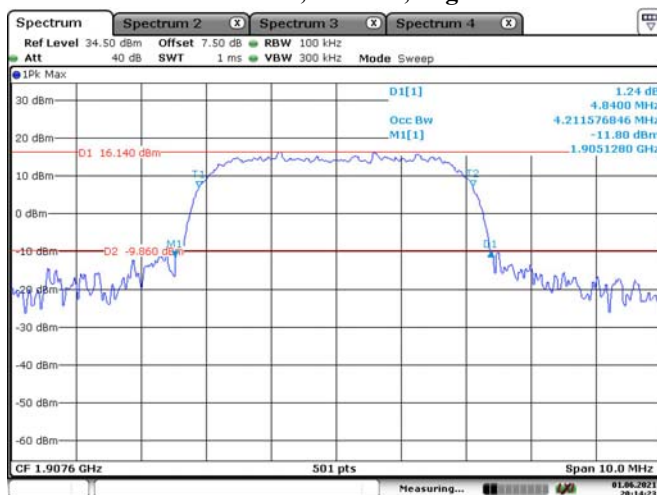
Date: 1.JUN.2021 20:02:56

WCDMA Band II, HSDPA, Middle Channel



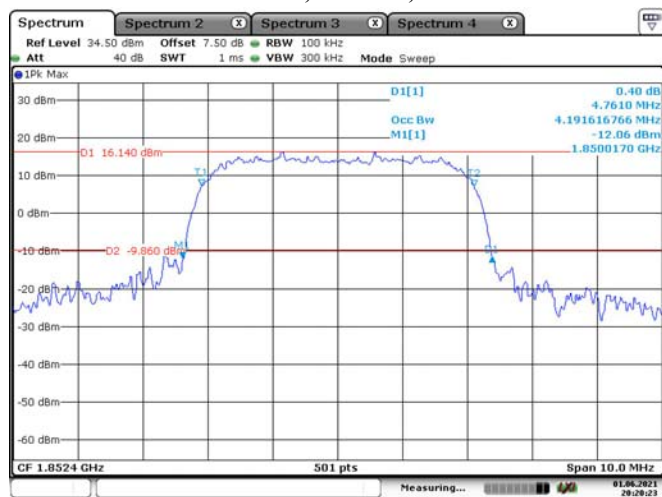
Date: 1.JUN.2021 20:09:11

WCDMA Band II, HSDPA, High Channel



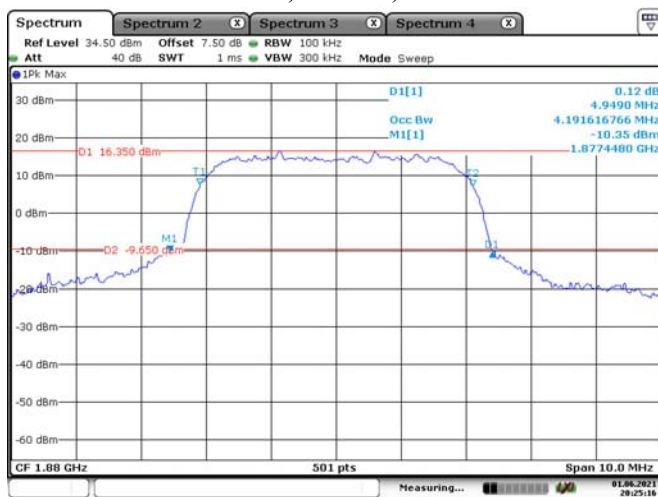
Date: 1.JUN.2021 20:14:24

WCDMA Band II, HSUPA, Low Channel



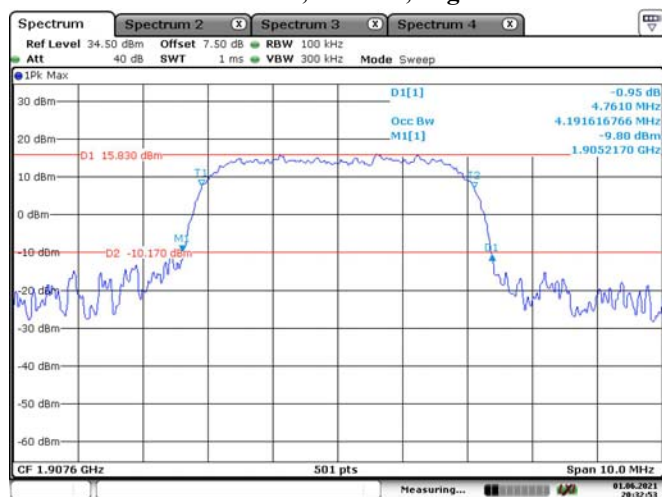
Date: 1.JUN.2021 20:20:23

WCDMA Band II, HSUPA, Middle Channel



Date: 1.JUN.2021 20:25:16

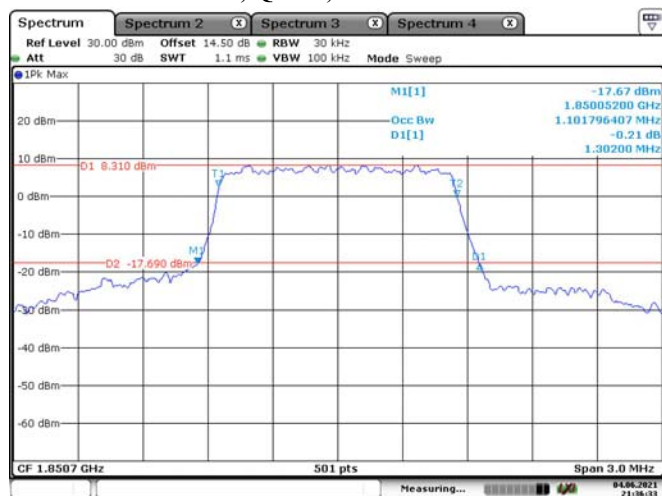
WCDMA Band II, HSUPA, High Channel



Date: 1.JUN.2021 20:32:53

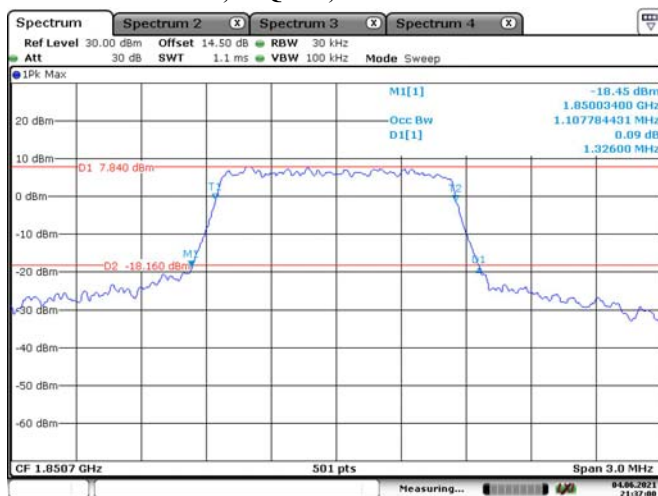
LTE Band 2:

1.4M, QPSK, Low Channel



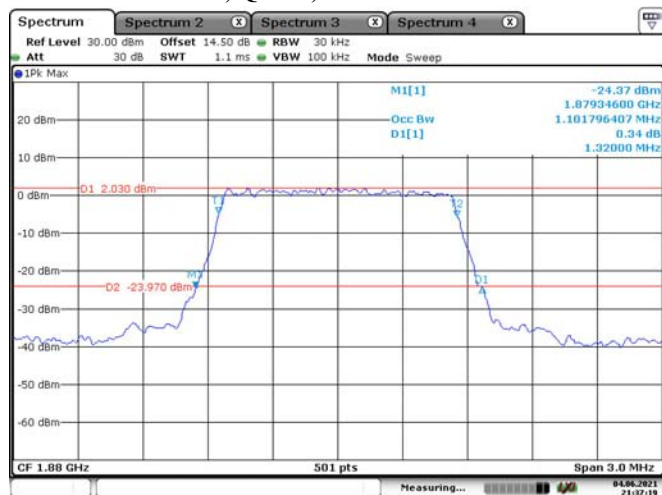
Date: 4.JUN.2021 21:16:33

1.4M, 16QAM, Low Channel



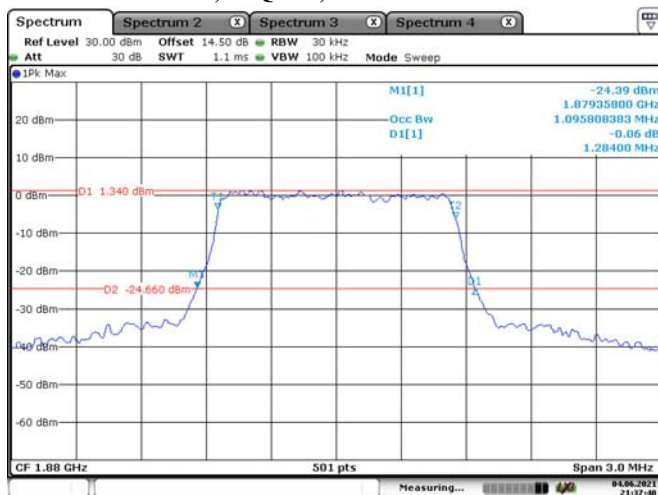
Date: 4.JUN.2021 21:17:00

1.4M, QPSK, Middle Channel



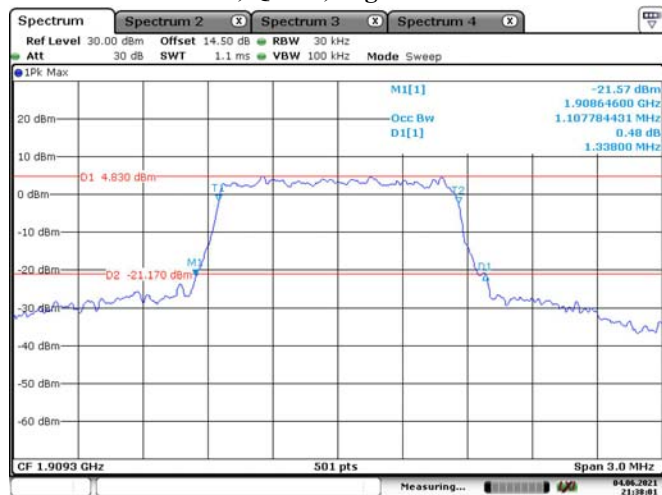
Date: 4.JUN.2021 21:17:19

1.4M, 16QAM, Middle Channel



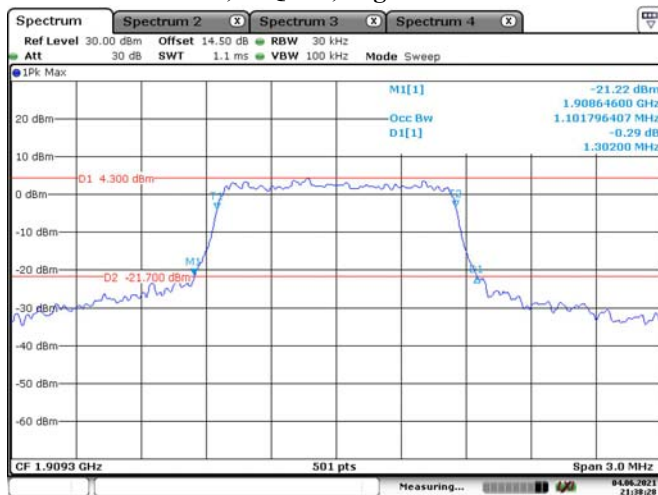
Date: 4.JUN.2021 21:17:39

1.4M, QPSK, High Channel



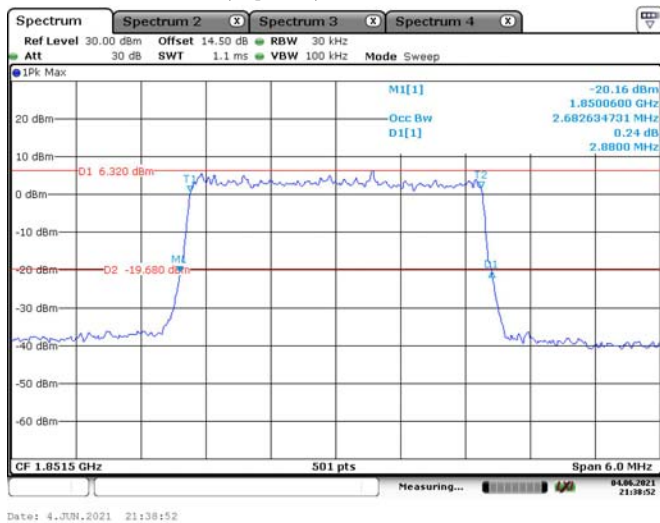
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1.4M, 16QAM, High Channel

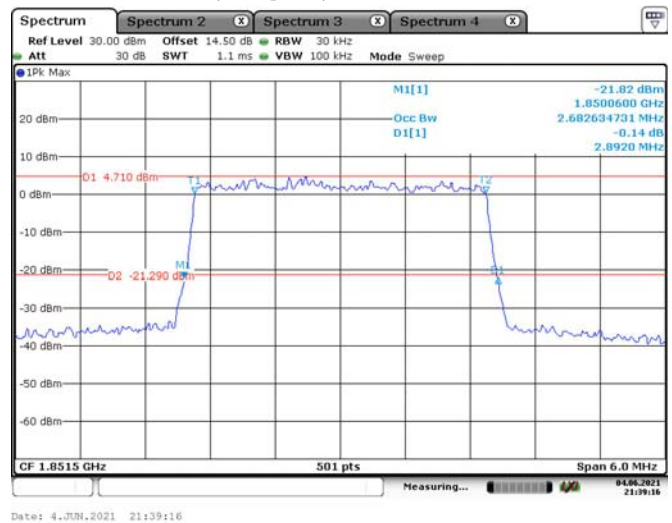


Date: 4.JUN.2021 21:18:28

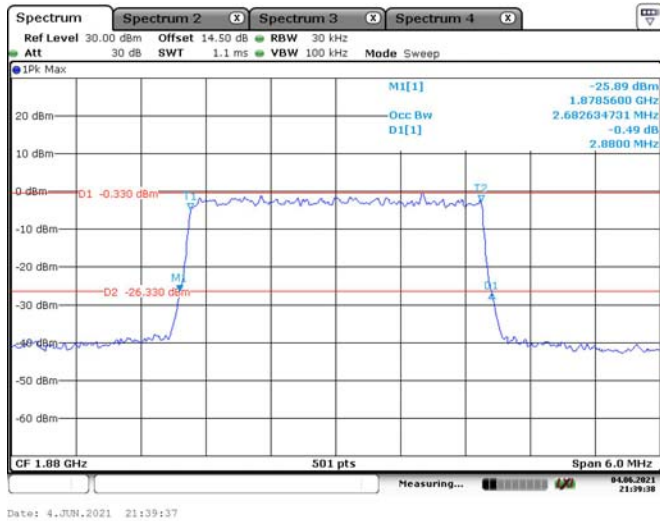
3M, QPSK, Low Channel



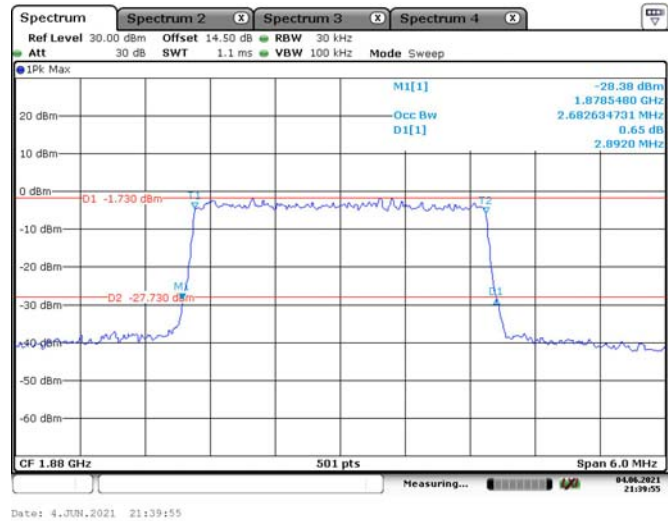
3M, 16QAM, Low Channel



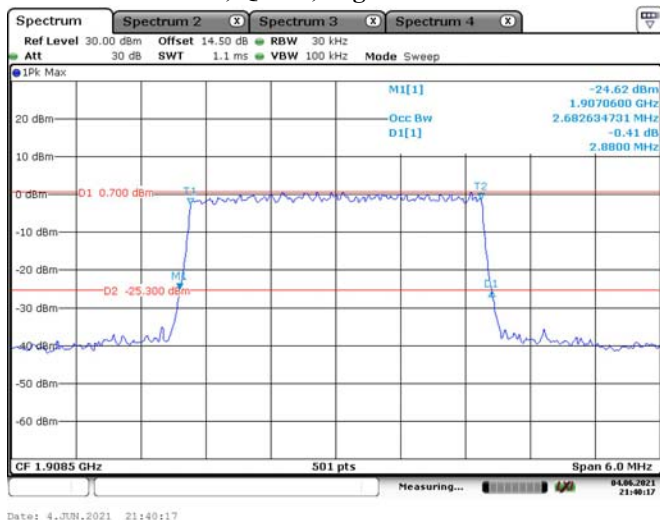
3M, QPSK, Middle Channel



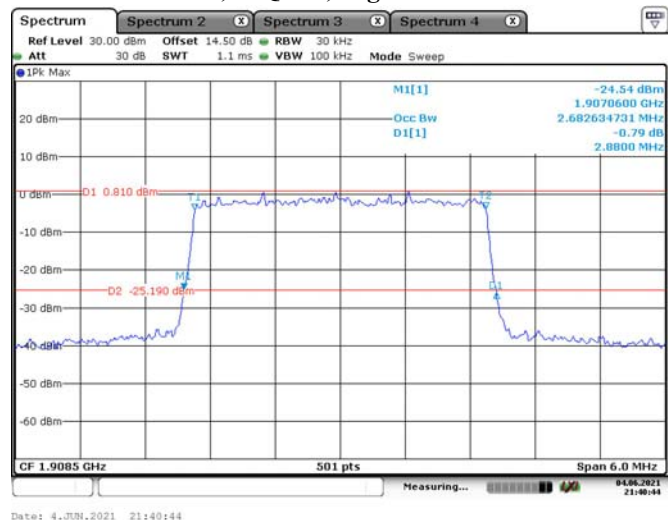
3M, 16QAM, Middle Channel



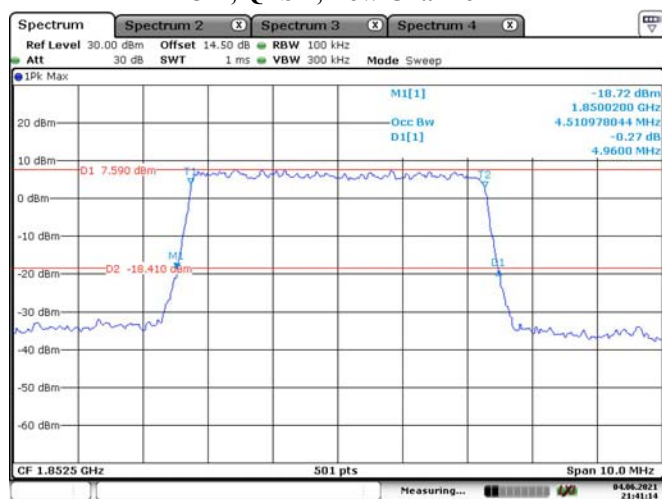
3M, QPSK, High Channel



3M, 16QAM, High Channel

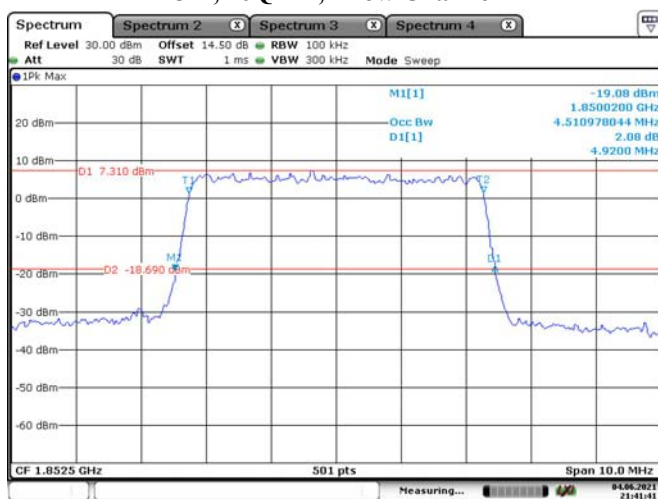


5M, QPSK, Low Channel



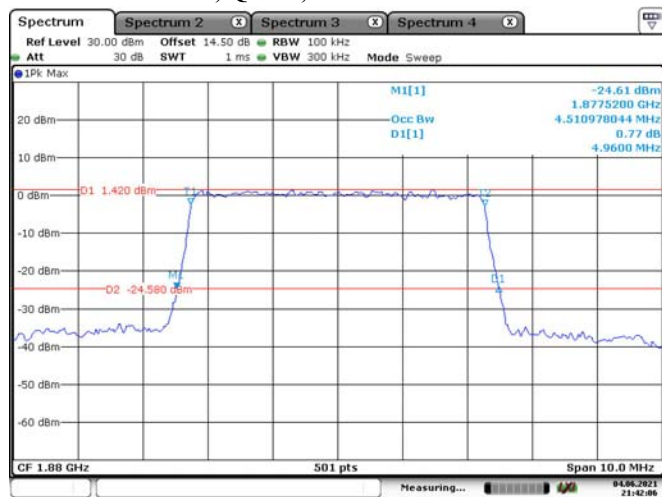
Date: 4.JUN.2021 21:41:14

5M, 16QAM, Low Channel



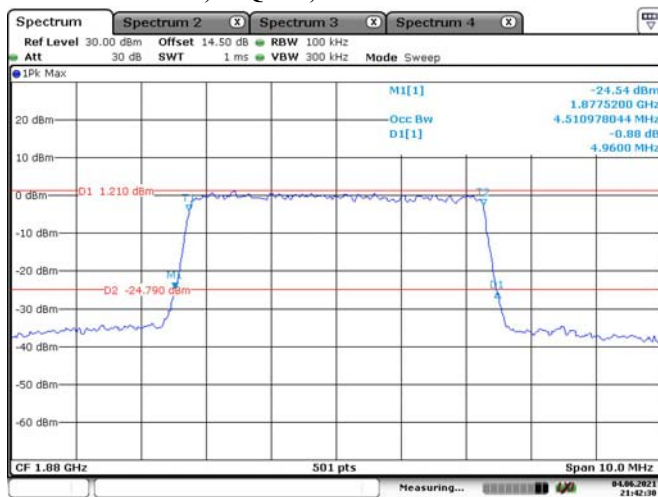
Date: 4.JUN.2021 21:41:41

5M, QPSK, Middle Channel



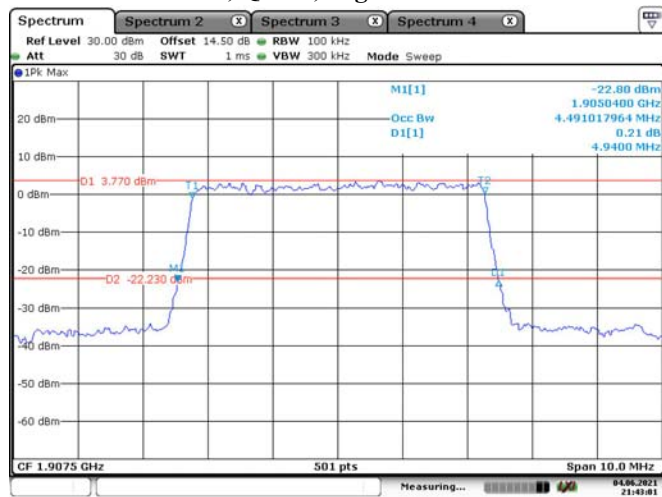
Date: 4.JUN.2021 21:42:06

5M, 16QAM, Middle Channel



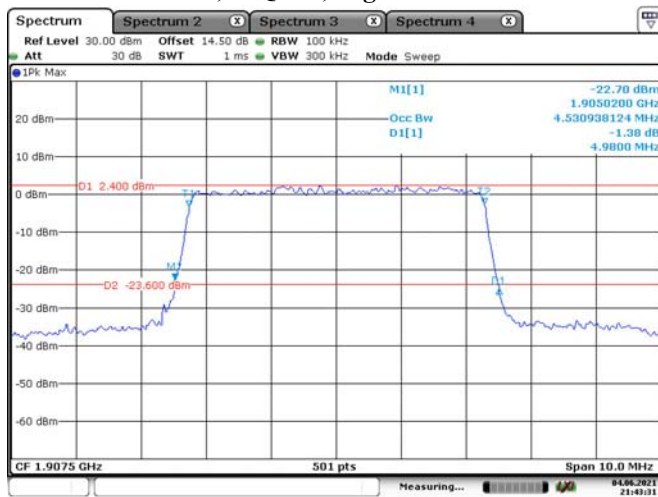
Date: 4.JUN.2021 21:42:09

5M, QPSK, High Channel



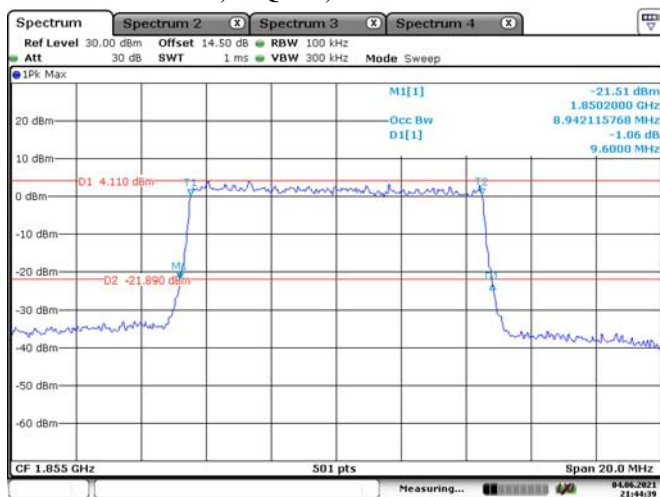
Date: 4.JUN.2021 21:43:00

5M, 16QAM, High Channel



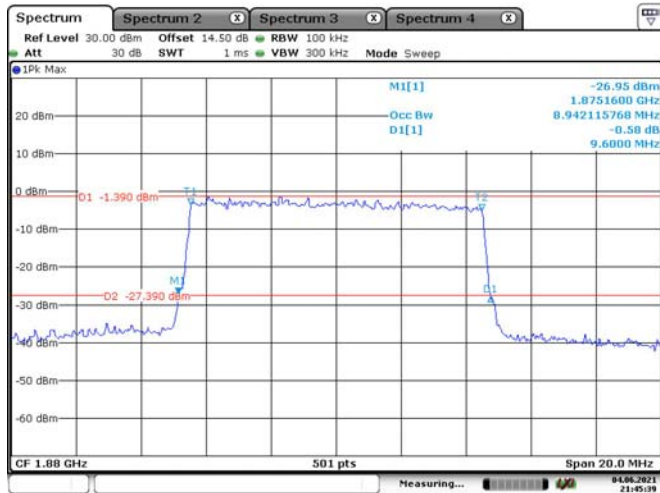
Date: 4.JUN.2021 21:43:31

10M, 16QAM, Low Channel



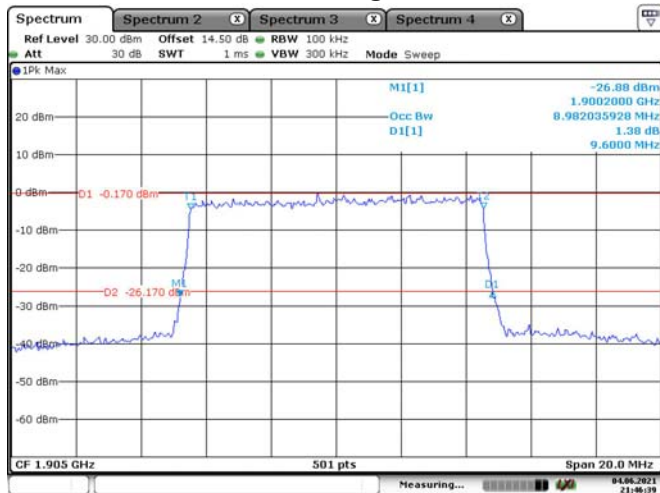
Date: 4 JUN 2021 21:44:39

10M, 16QAM, Middle Channel



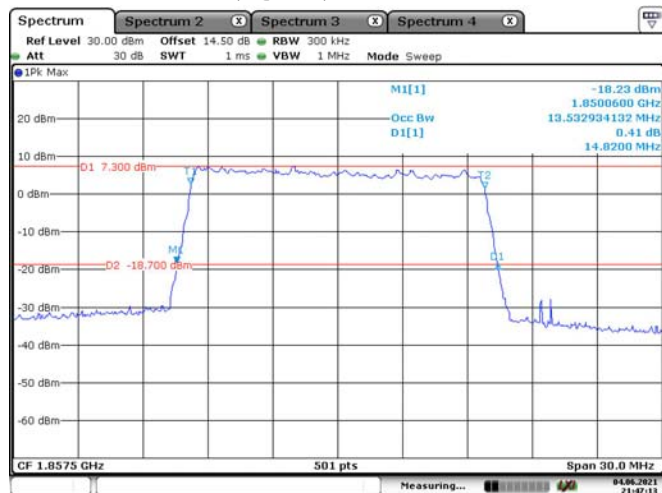
Date: 4.JUN.2021 21:45:39

10M, 16QAM, High Channel



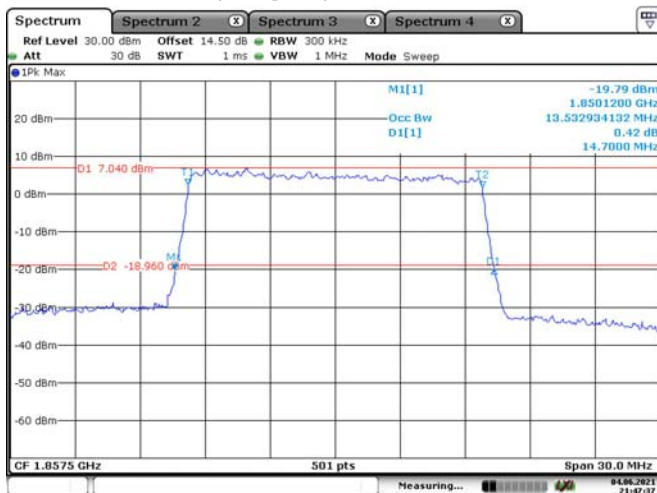
Date: 4.JUN.2021 21:46:39

15M, QPSK, Low Channel



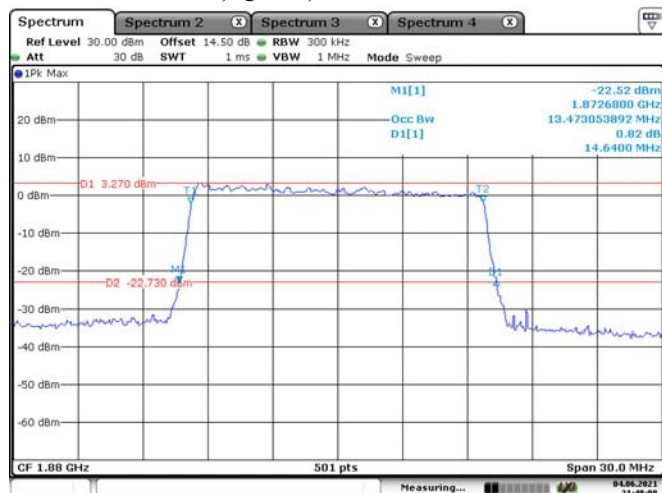
Date: 4.JUN.2021 21:47:13

15M, 16QAM, Low Channel



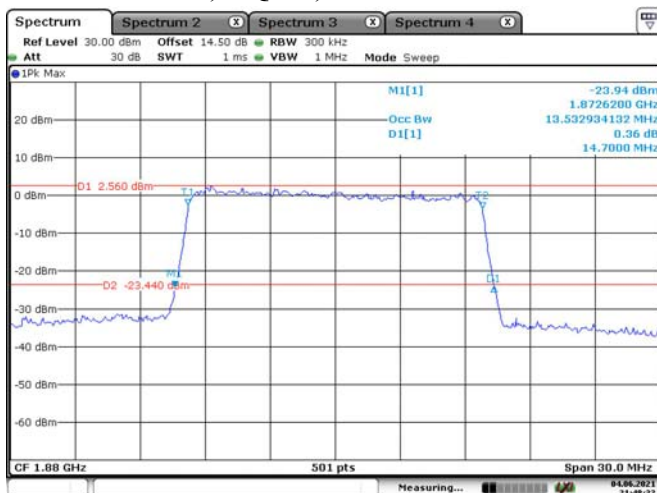
Date: 4.JUN.2021 21:47:37

15M, QPSK, Middle Channel



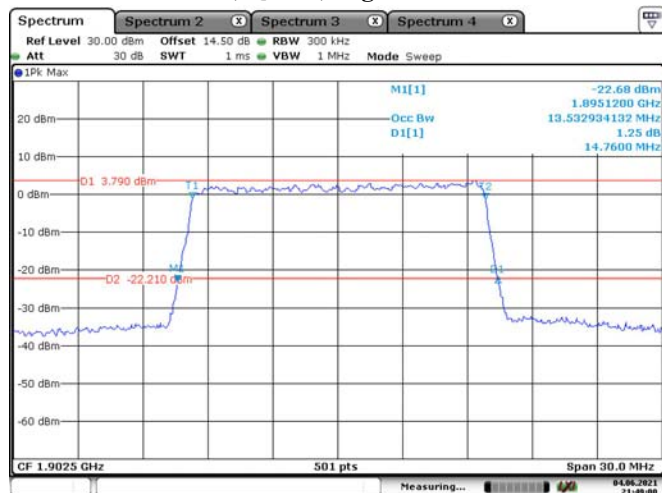
Date: 4.JUN.2021 21:48:08

15M, 16QAM, Middle Channel



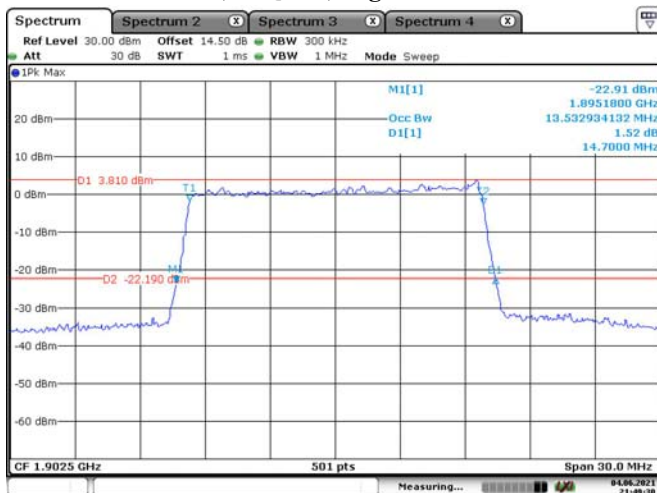
Date: 4.JUN.2021 21:48:32

15M, QPSK, High Channel



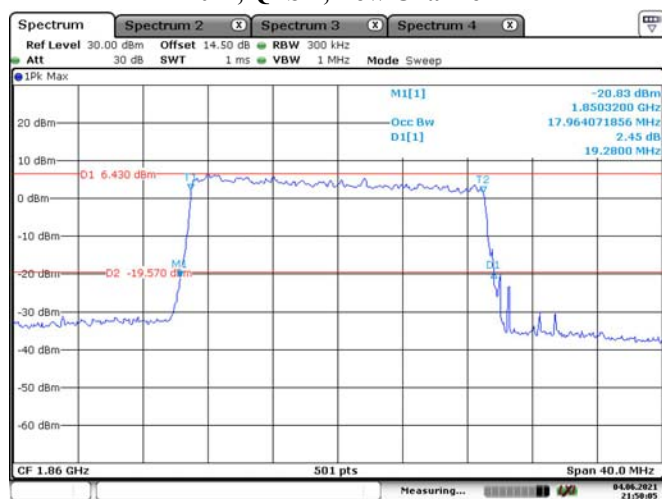
Date: 4.JUN.2021 21:49:00

15M, 16QAM, High Channel



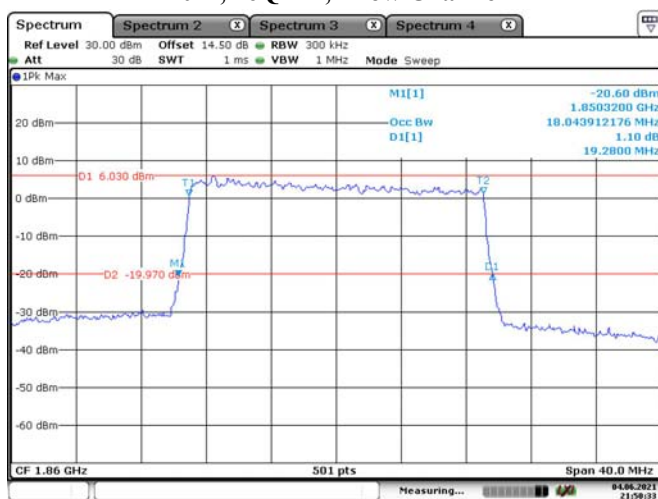
Date: 4.JUN.2021 21:49:30

20M, QPSK, Low Channel



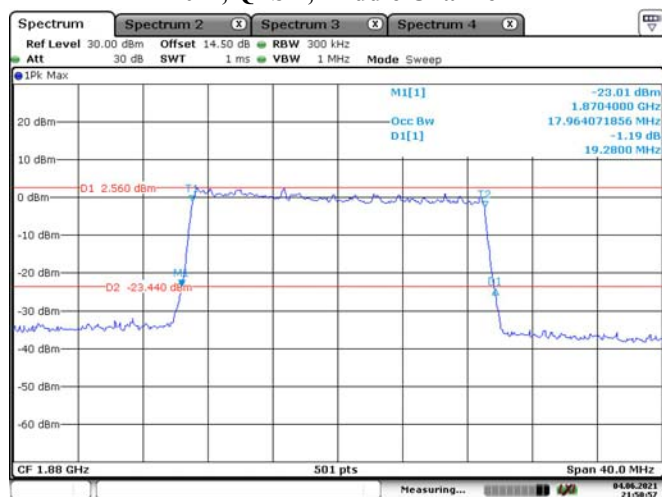
Date: 4.JUN.2021 21:50:05

20M, 16QAM, Low Channel



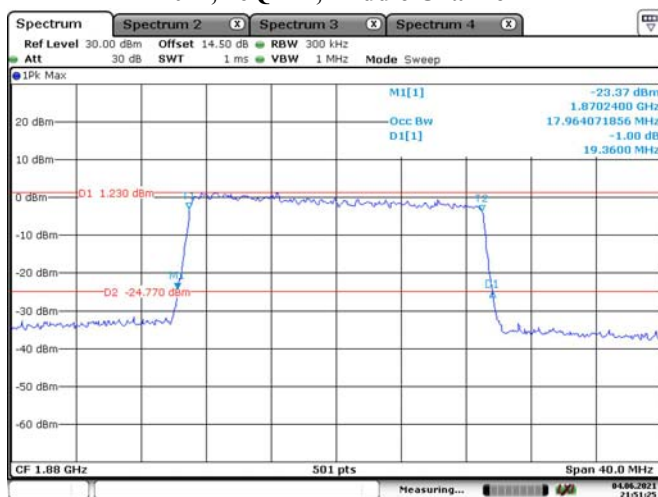
Date: 4.JUN.2021 21:50:32

20M, QPSK, Middle Channel



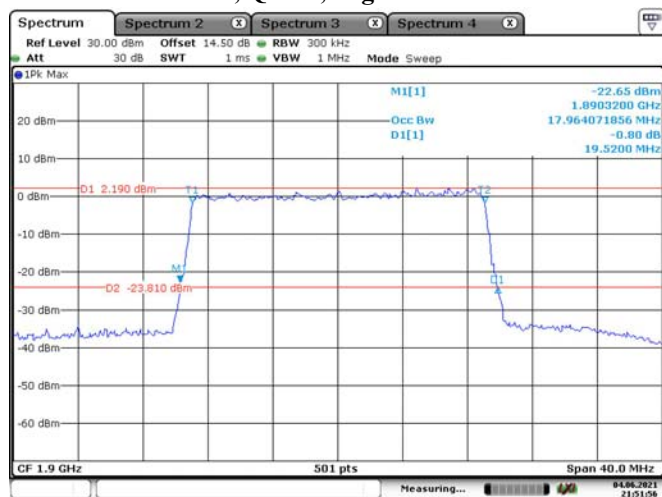
Date: 4.JUN.2021 21:50:57

20M, 16QAM, Middle Channel



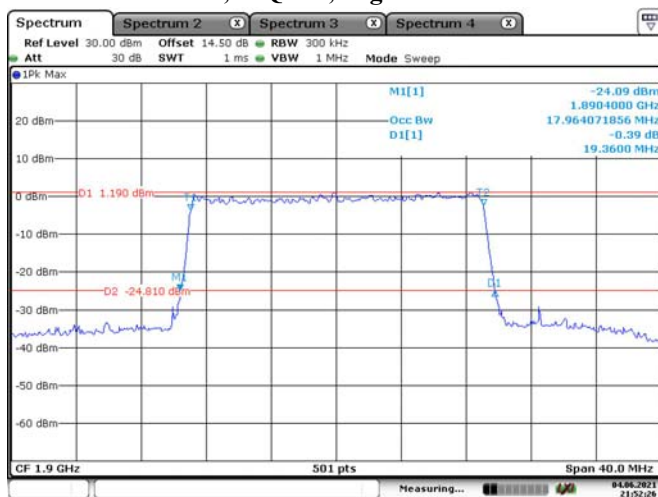
Date: 4.JUN.2021 21:51:24

20M, QPSK, High Channel



Date: 4.JUN.2021 21:51:55

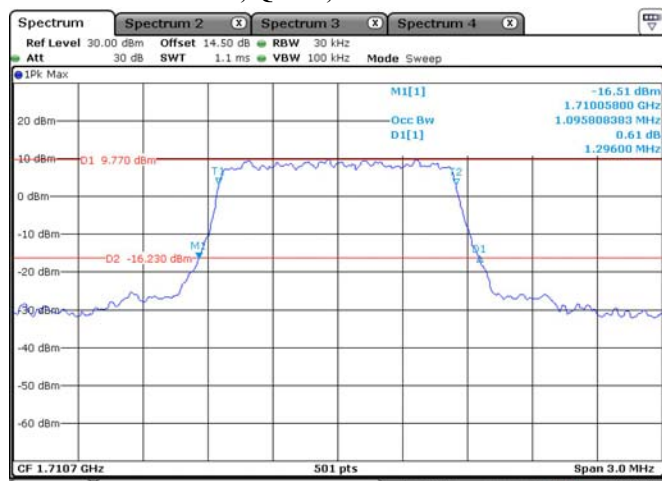
20M, 16QAM, High Channel



Date: 4.JUN.2021 21:52:26

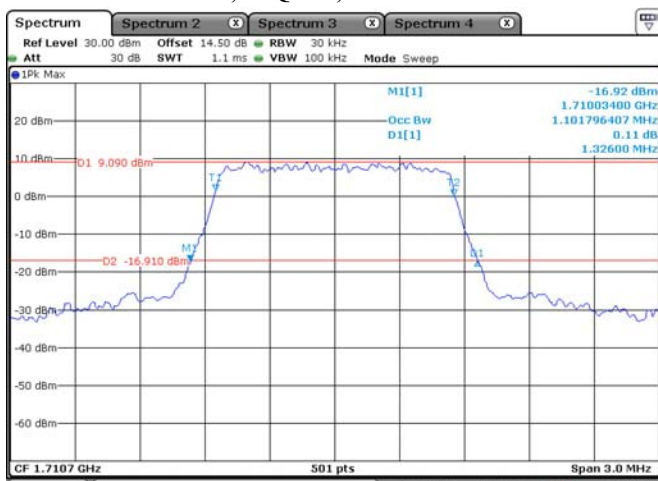
LTE Band 4:

1.4M, QPSK, Low Channel



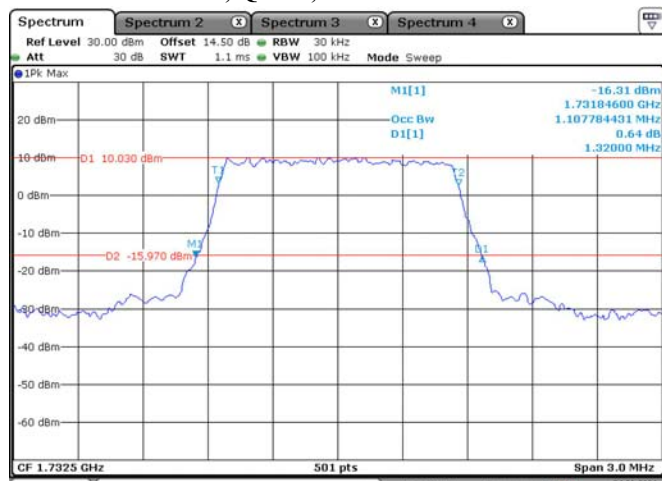
Date: 4 JUN, 2021 21:52:49

1.4M, 16QAM, Low Channel



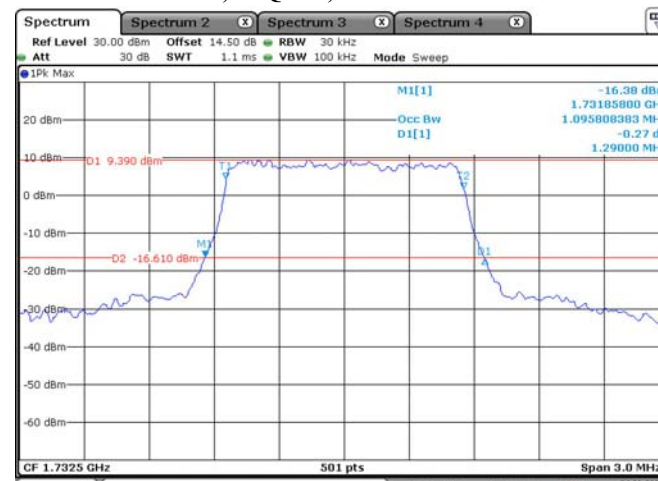
Date: 4 JUN, 2021 21:53:13

1.4M, QPSK, Middle Channel



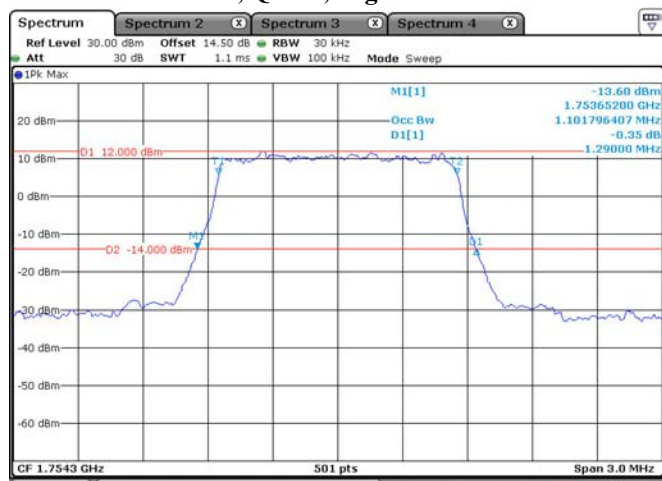
Date: 4 JUN, 2021 21:53:38

1.4M, 16QAM, Middle Channel



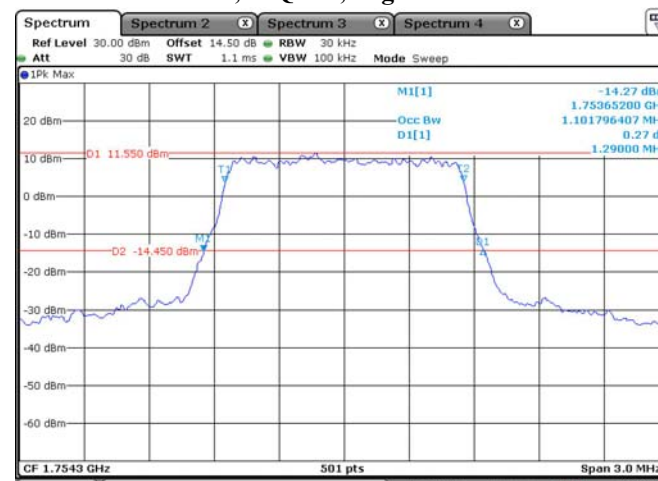
Date: 4 JUN, 2021 21:54:08

1.4M, QPSK, High Channel



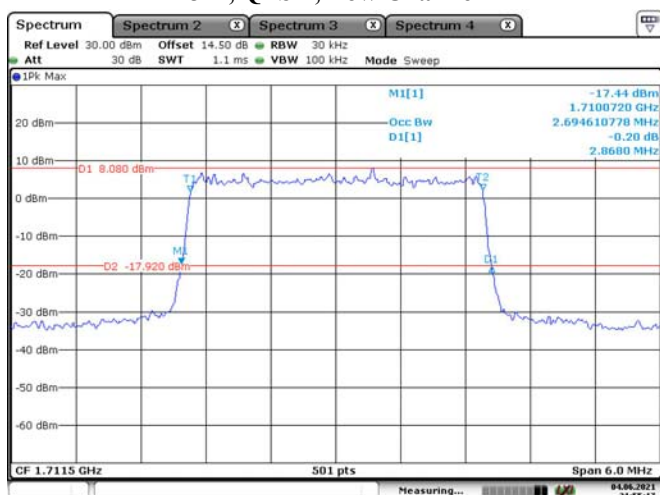
Date: 4 JUN, 2021 21:54:29

1.4M, 16QAM, High Channel



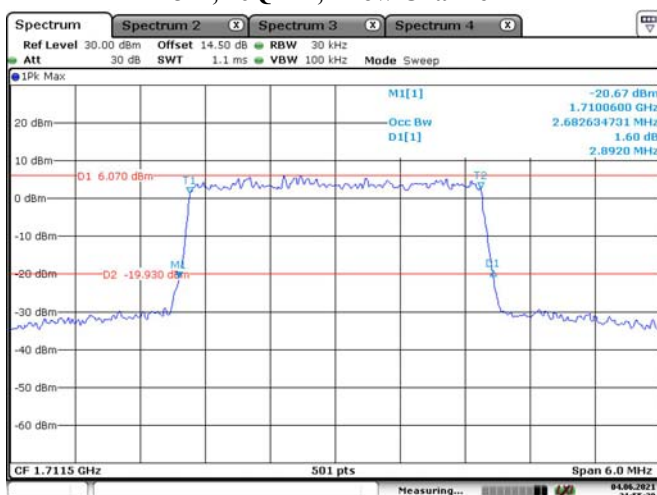
Date: 4 JUN, 2021 21:54:50

3M, QPSK, Low Channel



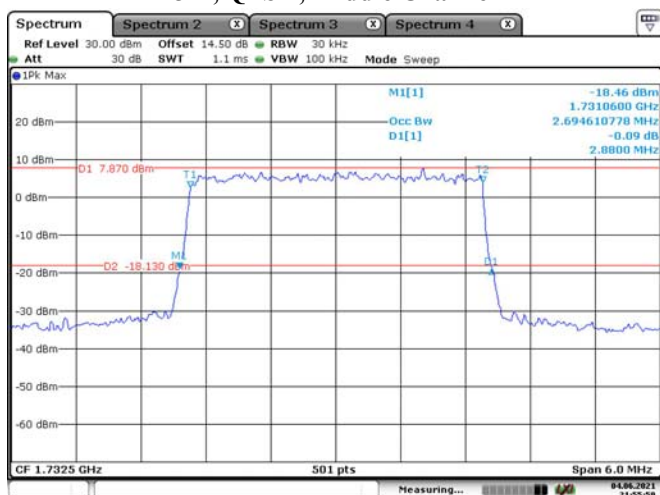
Date: 4 JUN, 2021 21:55:17

3M, 16QAM, Low Channel



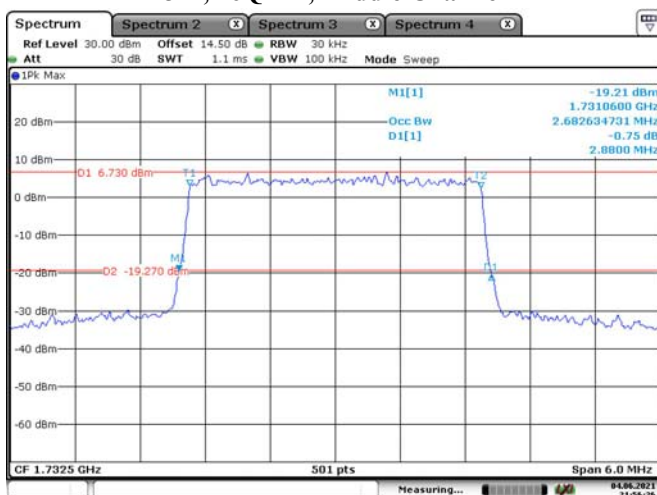
Date: 4 JUN, 2021 21:55:38

3M, QPSK, Middle Channel



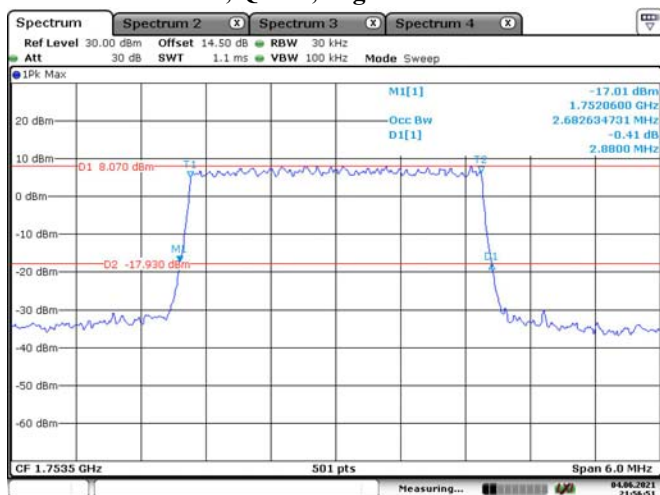
Date: 4 JUN, 2021 21:55:59

3M, 16QAM, Middle Channel



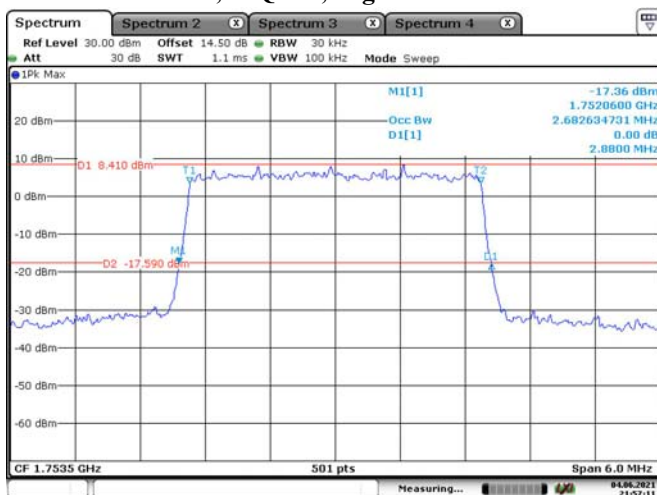
Date: 4 JUN, 2021 21:56:26

3M, QPSK, High Channel



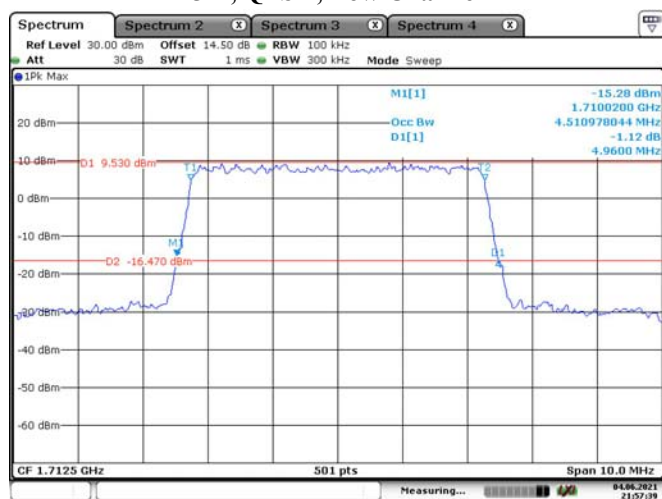
Date: 4 JUN, 2021 21:56:51

3M, 16QAM, High Channel



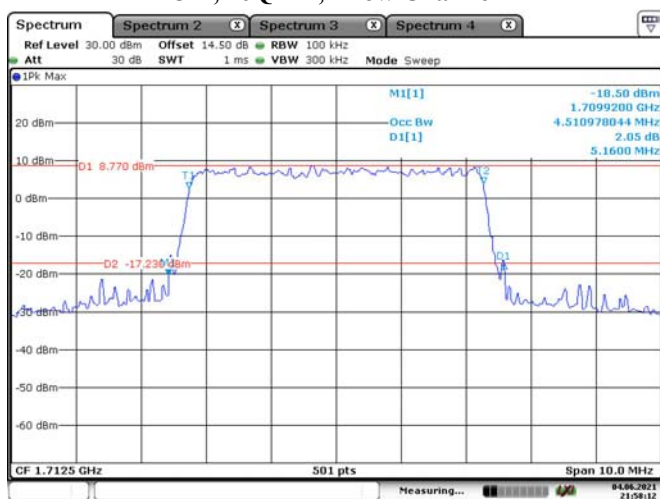
Date: 4 JUN, 2021 21:57:11

5M, QPSK, Low Channel



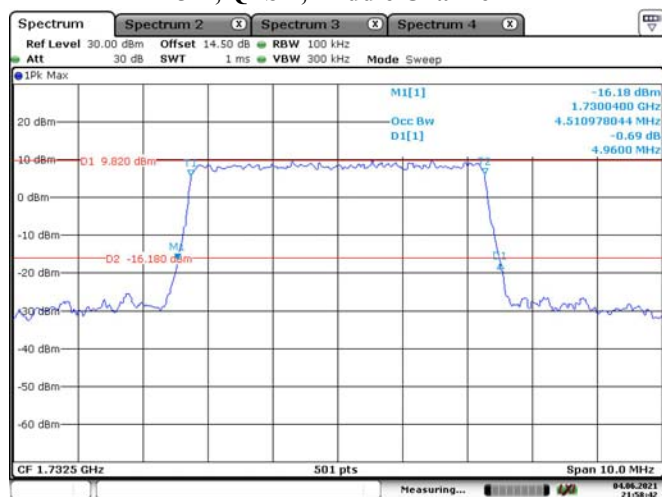
Date: 4 JUN, 2021 21:57:39

5M, 16QAM, Low Channel



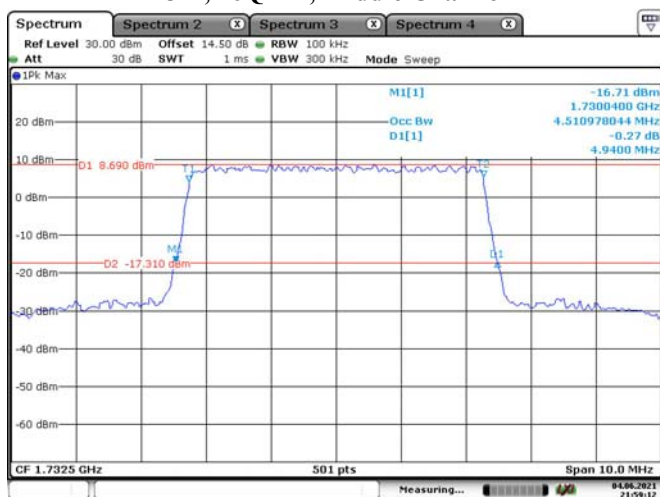
Date: 4 JUN, 2021 21:58:12

5M, QPSK, Middle Channel



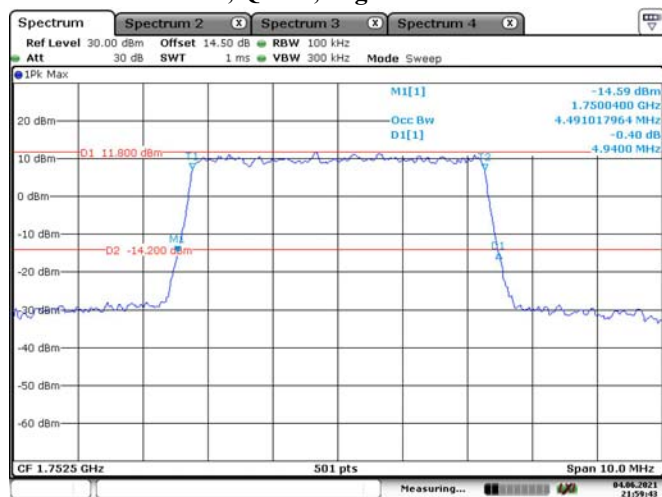
Date: 4 JUN, 2021 21:58:42

5M, 16QAM, Middle Channel



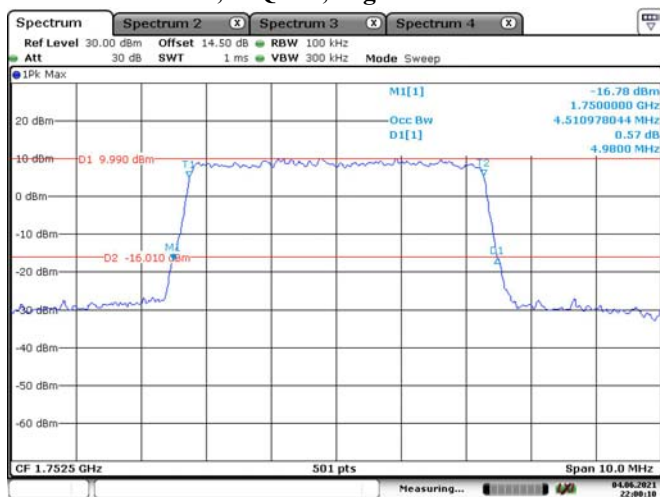
Date: 4 JUN, 2021 21:59:12

5M, QPSK, High Channel



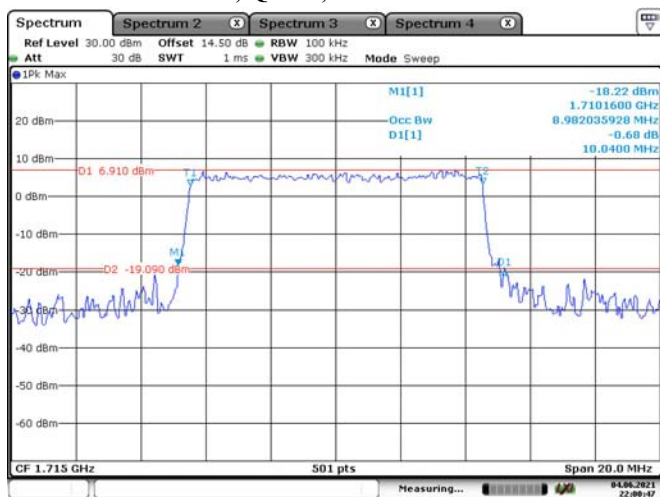
Date: 4 JUN, 2021 21:59:43

5M, 16QAM, High Channel

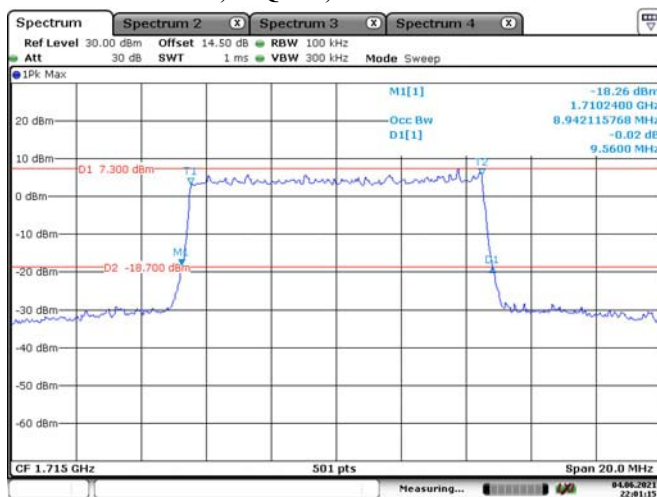


Date: 4 JUN, 2021 22:00:18

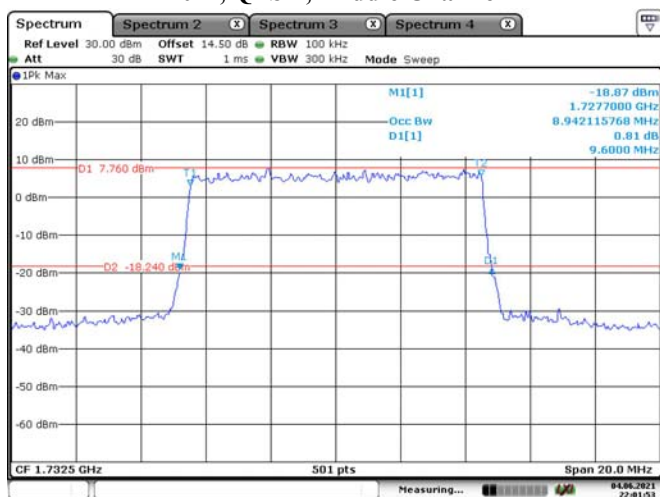
10M, QPSK, Low Channel



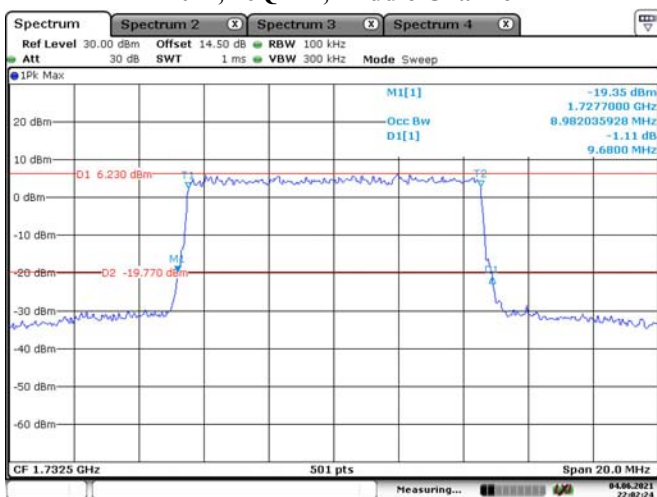
10M, 16QAM, Low Channel



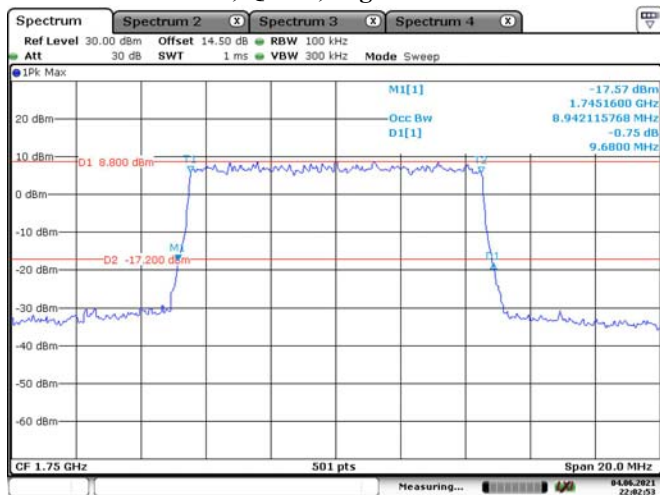
10M, QPSK, Middle Channel



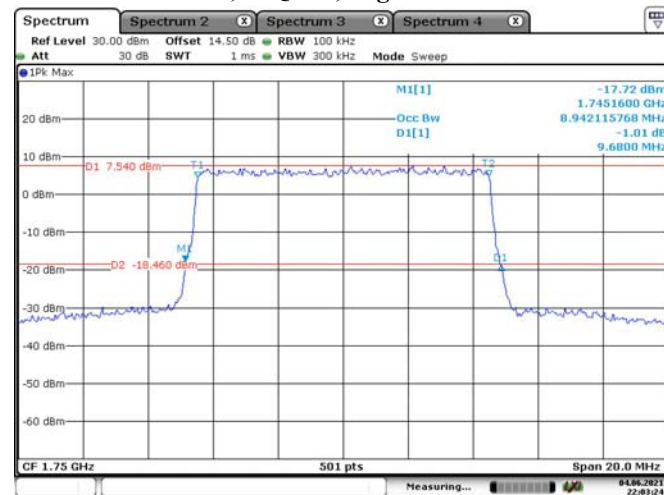
10M, 16QAM, Middle Channel



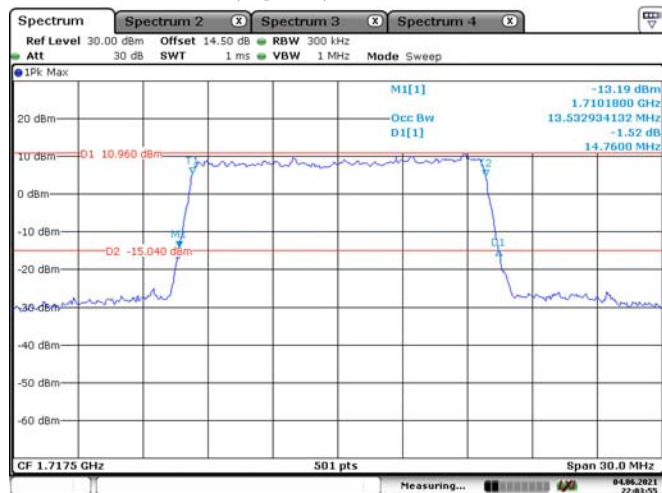
10M, QPSK, High Channel



10M, 16QAM, High Channel

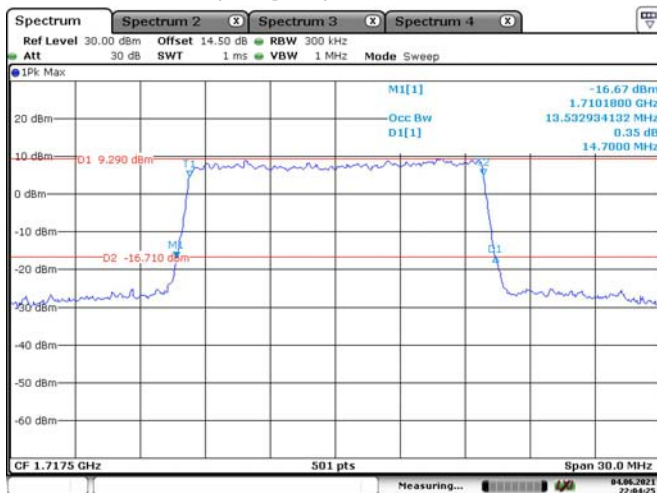


15M, QPSK, Low Channel



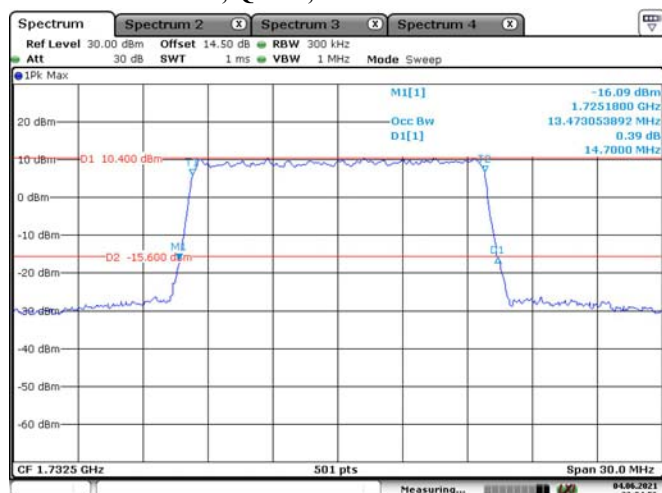
Date: 4 JUN 2021 22:03:55

15M, 16QAM, Low Channel



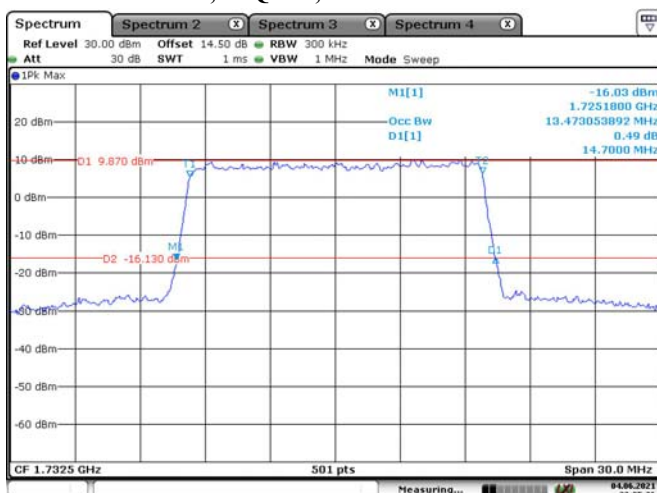
Date: 4 JUN 2021 22:04:25

15M, QPSK, Middle Channel



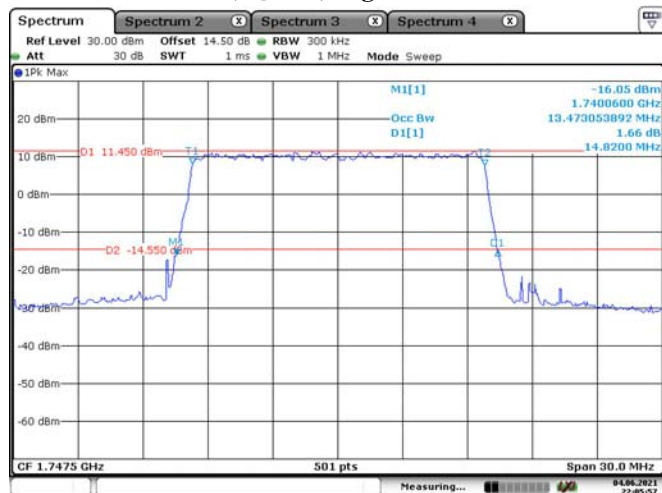
Date: 4 JUN 2021 22:04:56

15M, 16QAM, Middle Channel



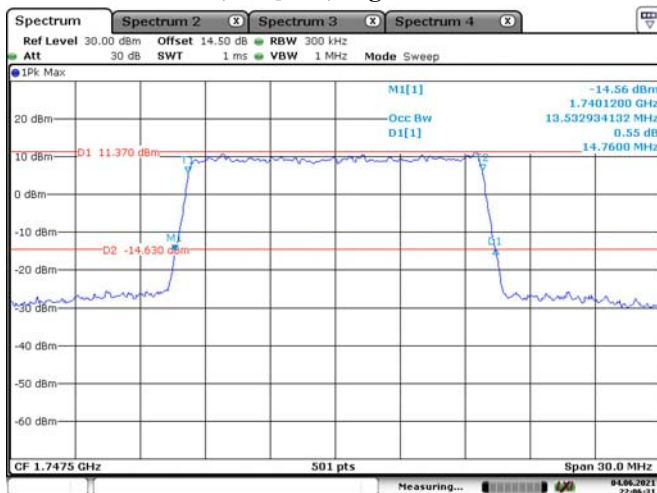
Date: 4 JUN 2021 22:05:26

15M, QPSK, High Channel



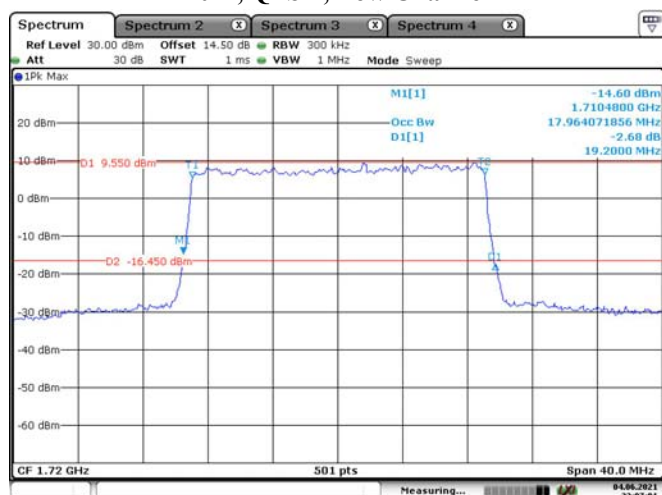
Date: 4 JUN 2021 22:05:57

15M, 16QAM, High Channel



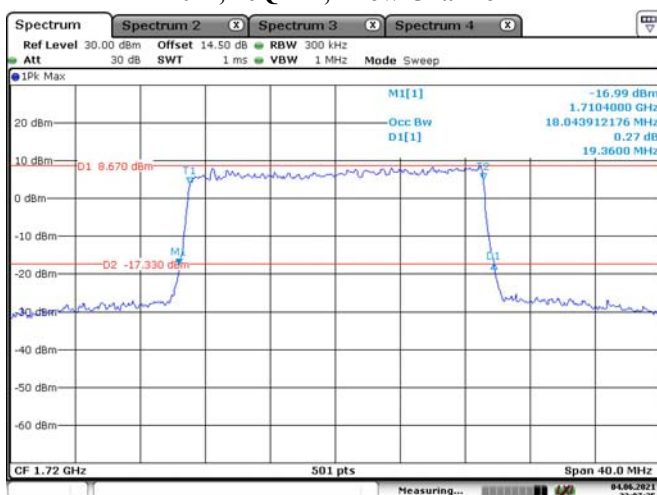
Date: 4 JUN 2021 22:06:30

20M, QPSK, Low Channel



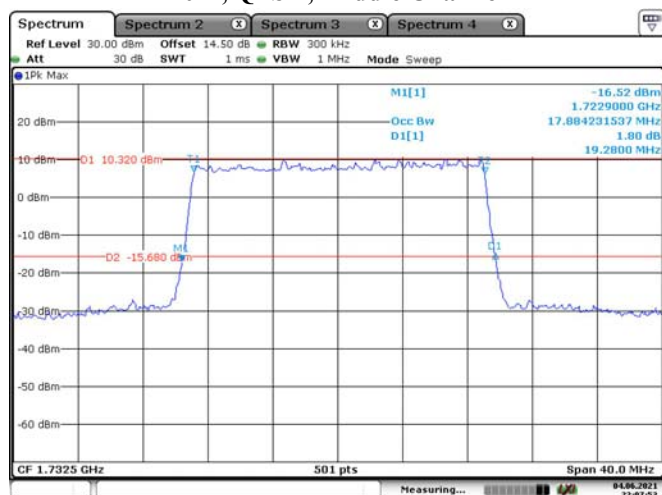
Date: 4 JUN. 2021 22:07:01

20M, 16QAM, Low Channel



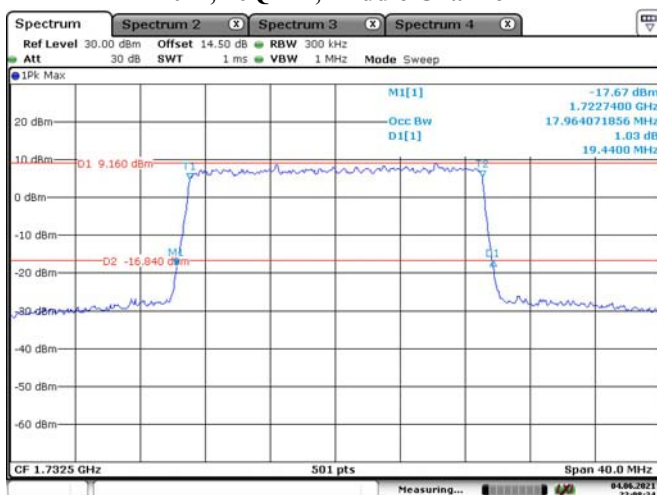
Date: 4 JUN. 2021 22:07:25

20M, QPSK, Middle Channel



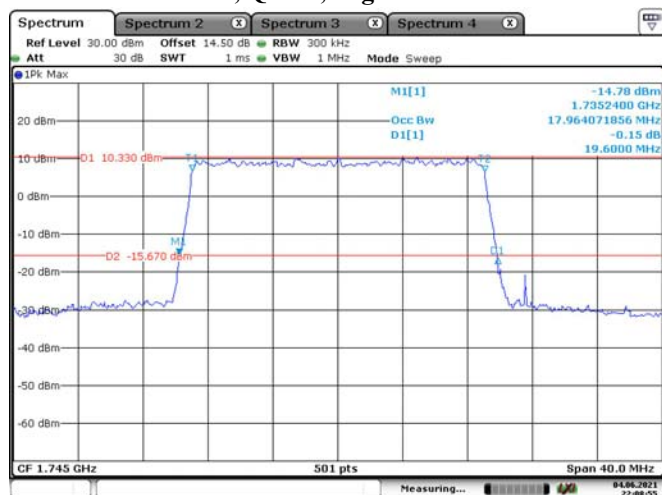
Date: 4 JUN. 2021 22:07:53

20M, 16QAM, Middle Channel



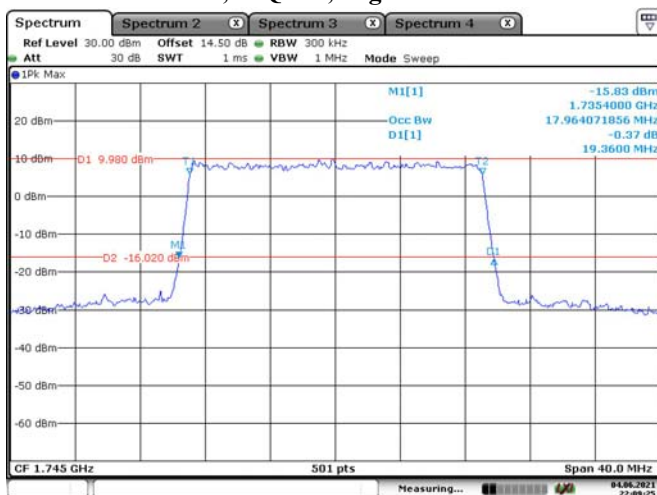
Date: 4 JUN. 2021 22:08:24

20M, QPSK, High Channel



Date: 4 JUN. 2021 22:08:55

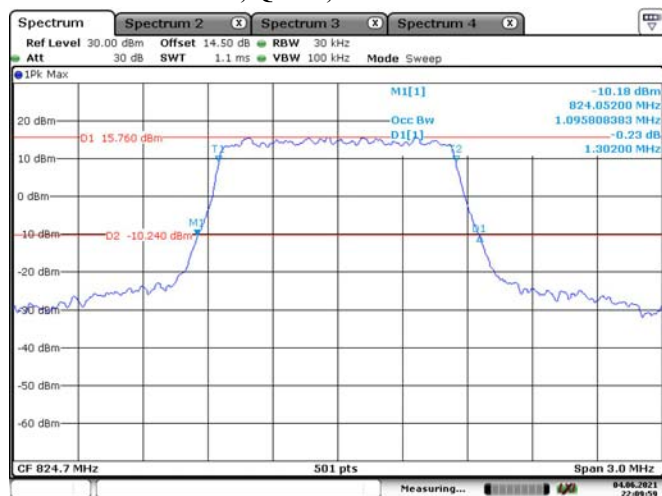
20M, 16QAM, High Channel



Date: 4 JUN. 2021 22:09:25

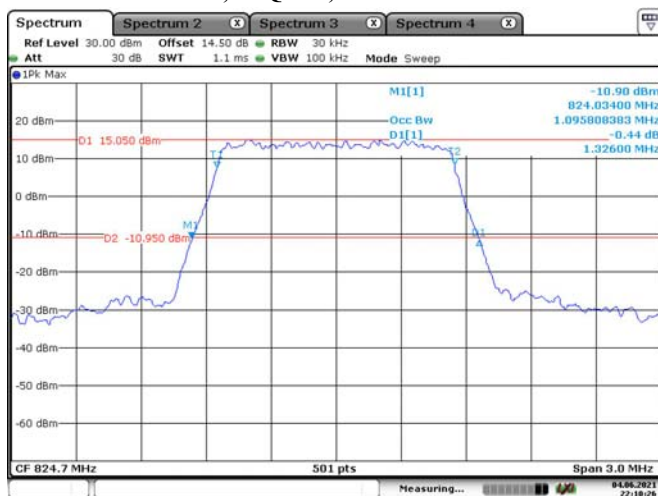
LTE Band 5:

1.4M, QPSK, Low Channel



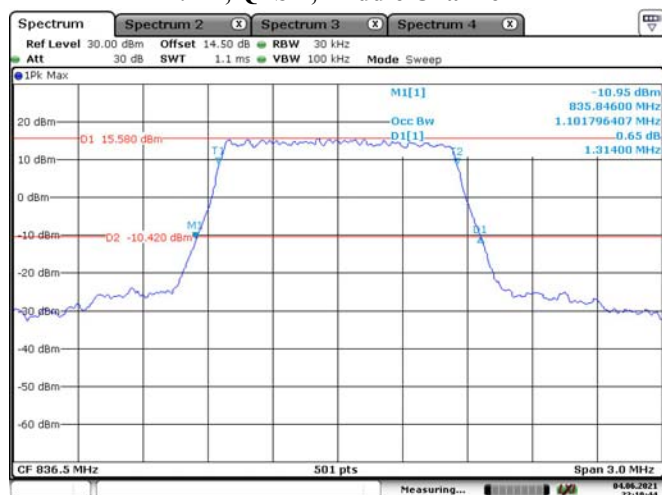
Date: 4.JUN.2021 22:09:59

1.4M, 16QAM, Low Channel



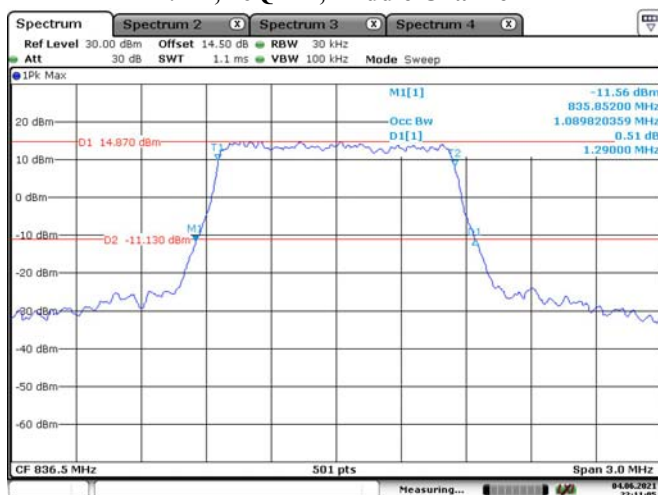
Date: 4.JUN.2021 22:10:26

1.4M, QPSK, Middle Channel



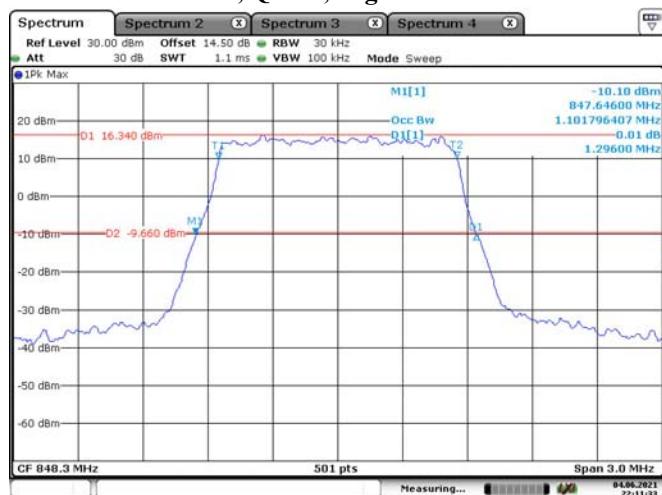
Date: 4.JUN.2021 22:10:44

1.4M, 16QAM, Middle Channel



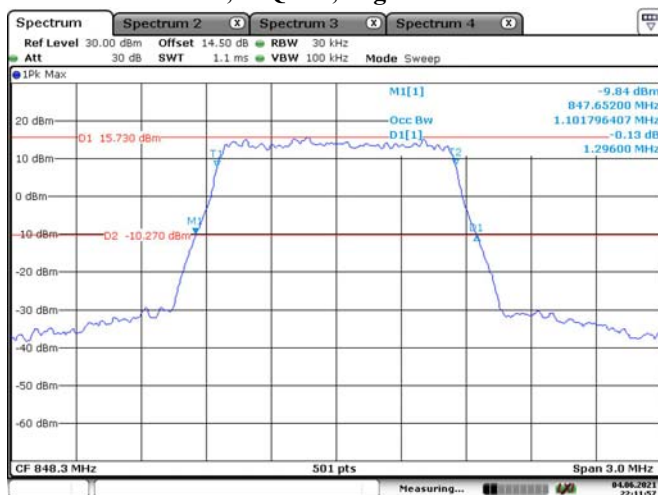
Date: 4.JUN.2021 22:11:05

1.4M, QPSK, High Channel



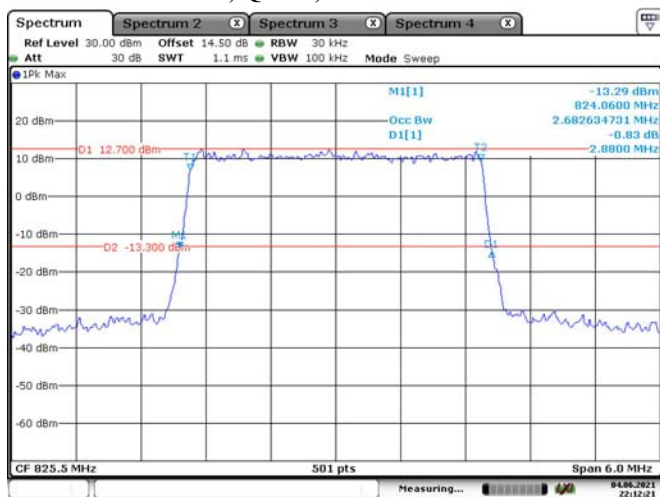
Date: 4.JUN.2021 22:11:33

1.4M, 16QAM, High Channel

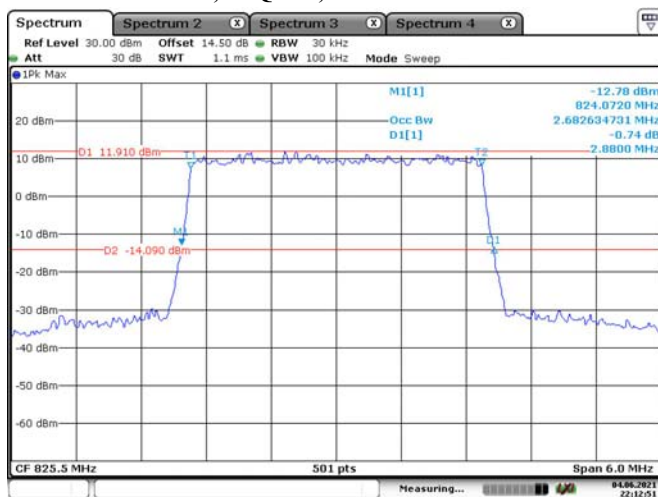


Date: 4.JUN.2021 22:11:57

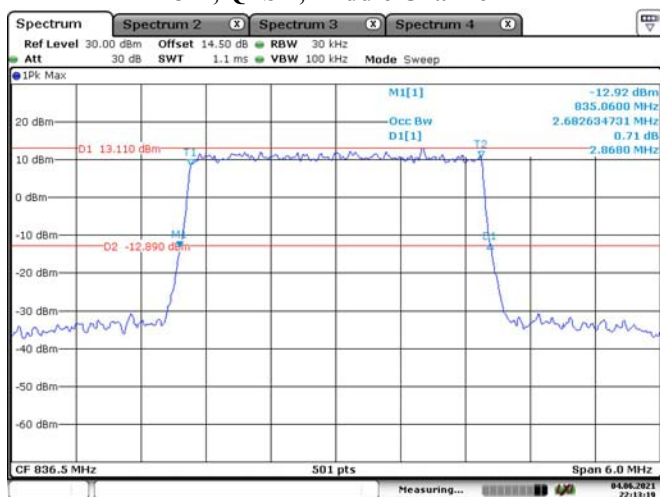
3M, QPSK, Low Channel



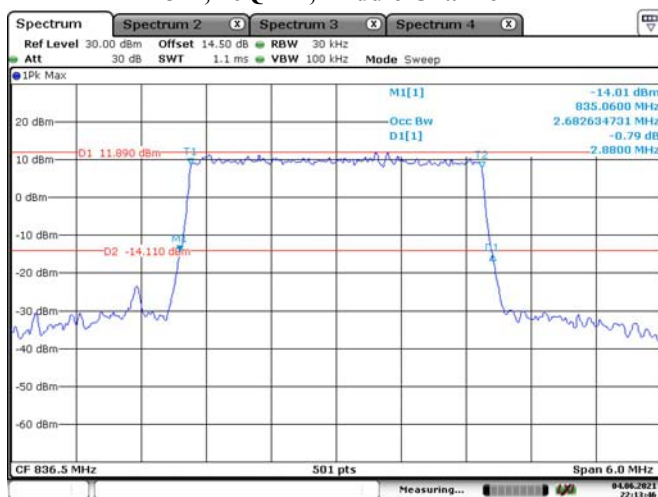
3M, 16QAM, Low Channel



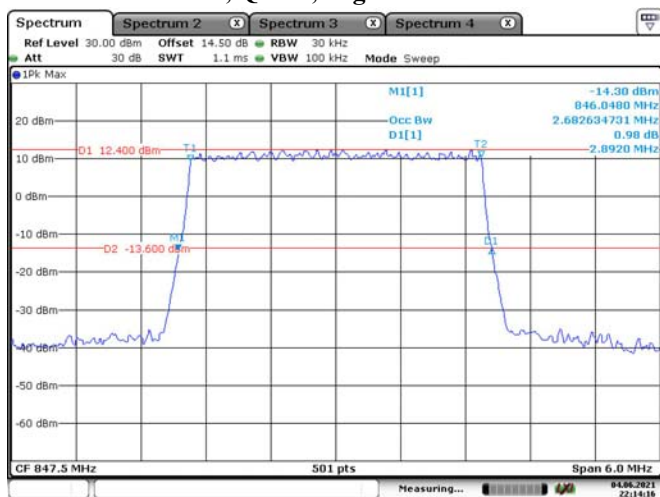
3M, QPSK, Middle Channel



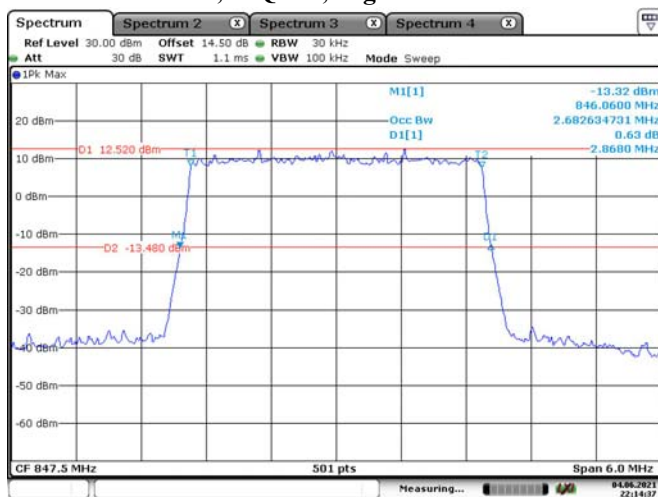
3M, 16QAM, Middle Channel



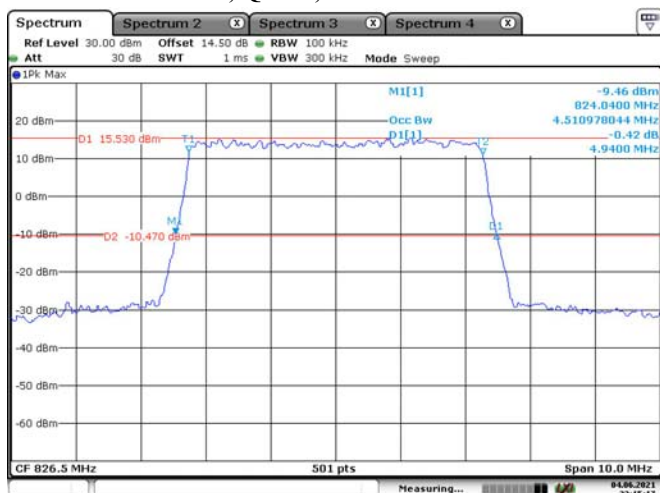
3M, QPSK, High Channel



3M, 16QAM, High Channel

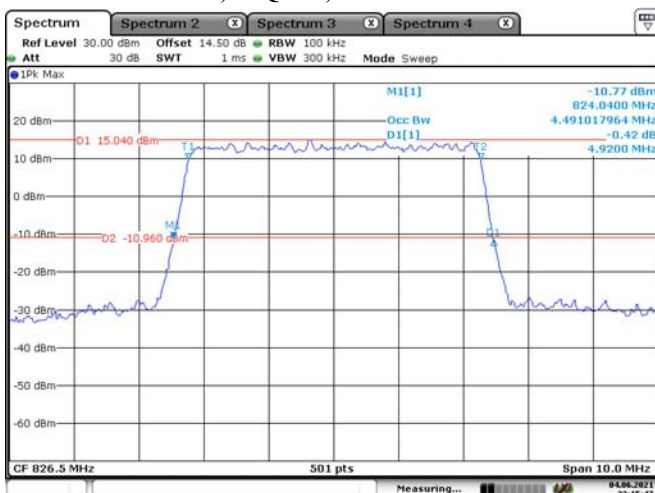


5M, QPSK, Low Channel



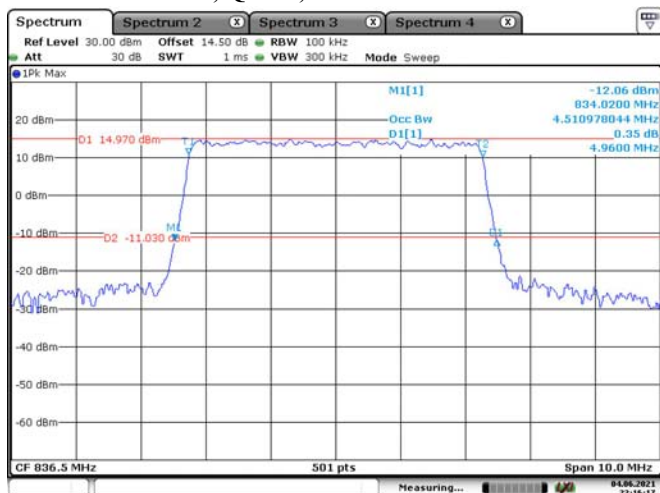
Date: 4.JUN.2021 22:15:16

5M, 16QAM, Low Channel



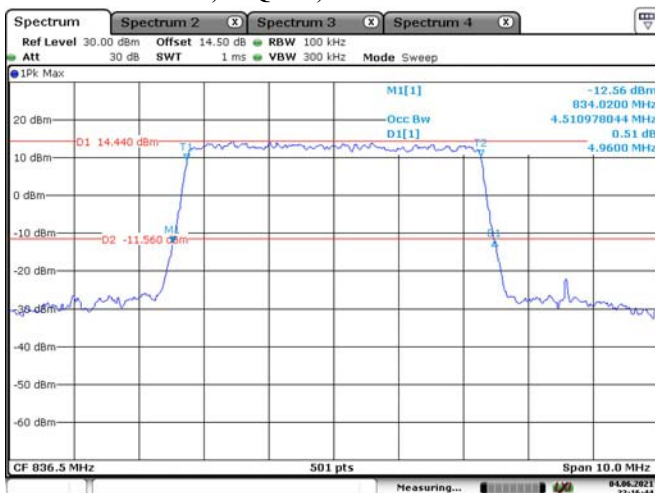
Date: 4.JUN.2021 22:15:46

5M, QPSK, Middle Channel



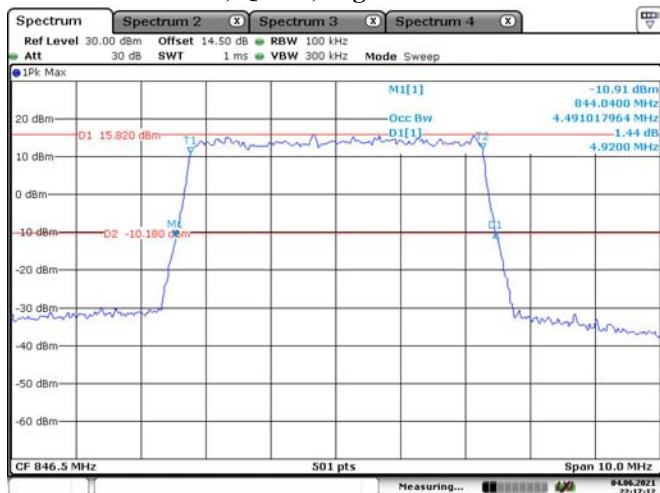
Date: 4.JUN.2021 22:16:17

5M, 16QAM, Middle Channel



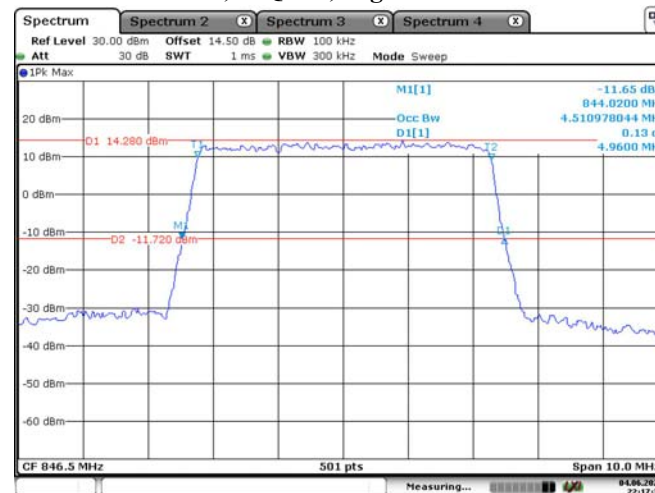
Date: 4.JUN.2021 22:16:44

5M, QPSK, High Channel



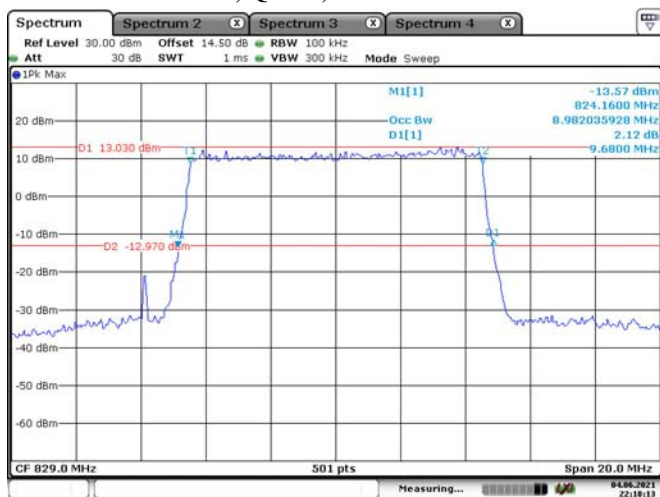
Date: 4.JUN.2021 22:17:12

5M, 16QAM, High Channel

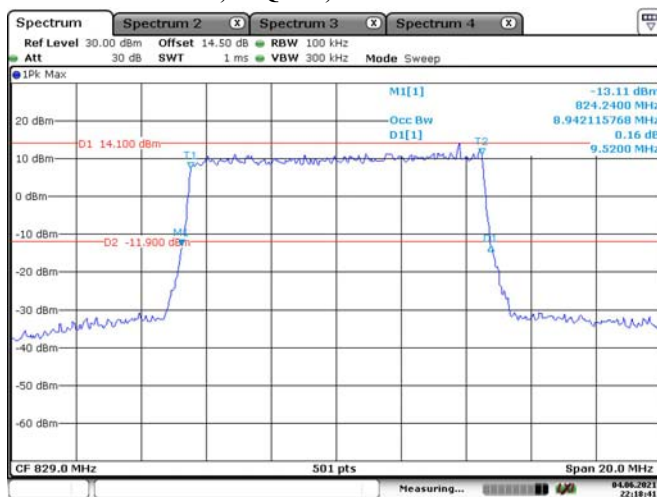


Date: 4.JUN.2021 22:17:38

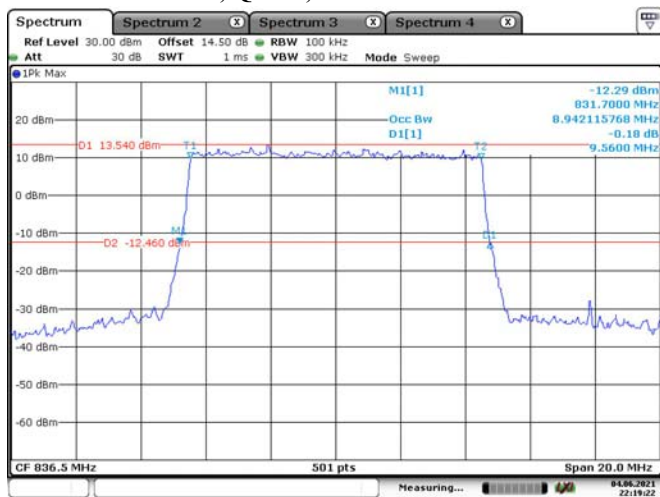
10M, QPSK, Low Channel



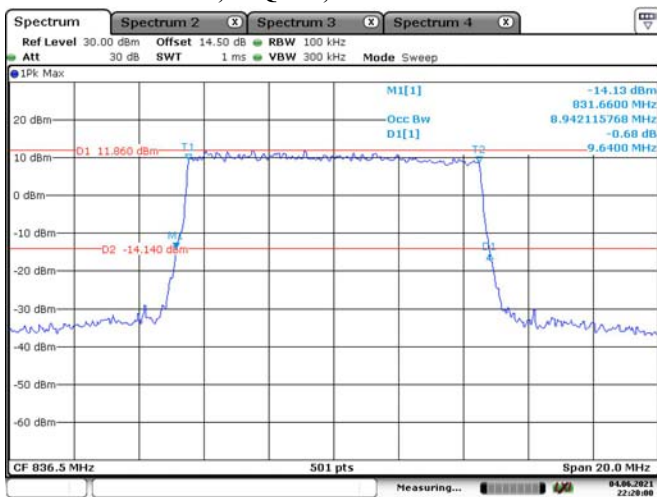
10M, 16QAM, Low Channel



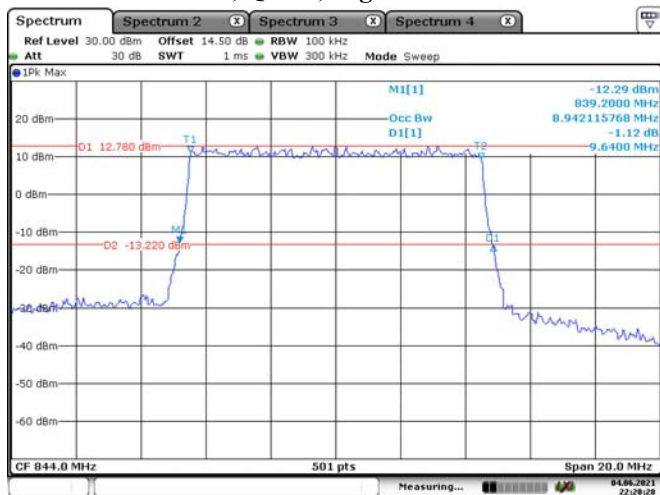
10M, QPSK, Middle Channel



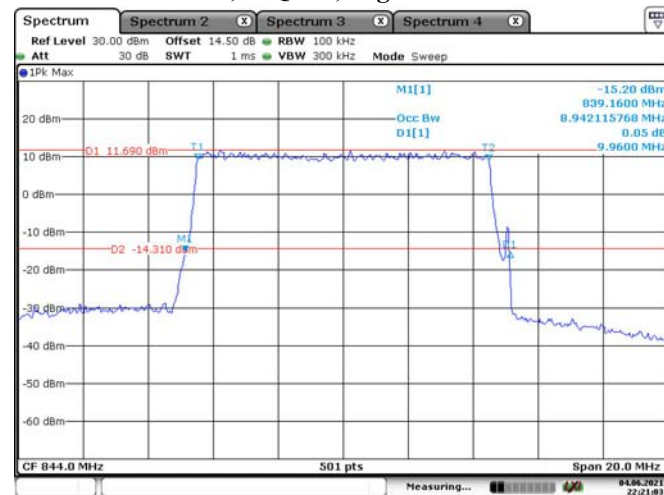
10M, 16QAM, Middle Channel



10M, QPSK, High Channel

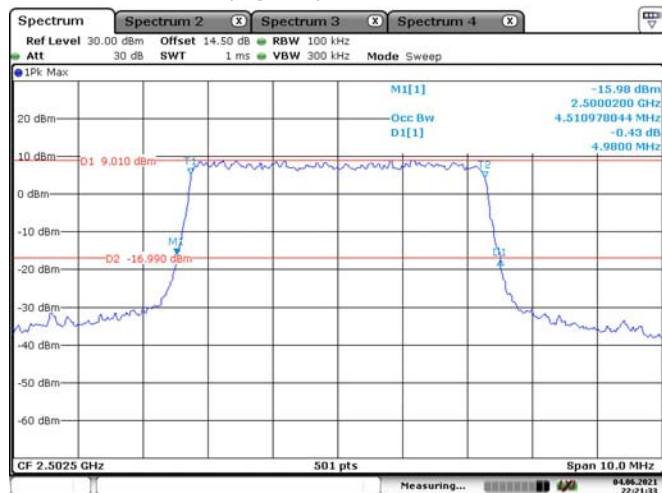


10M, 16QAM, High Channel

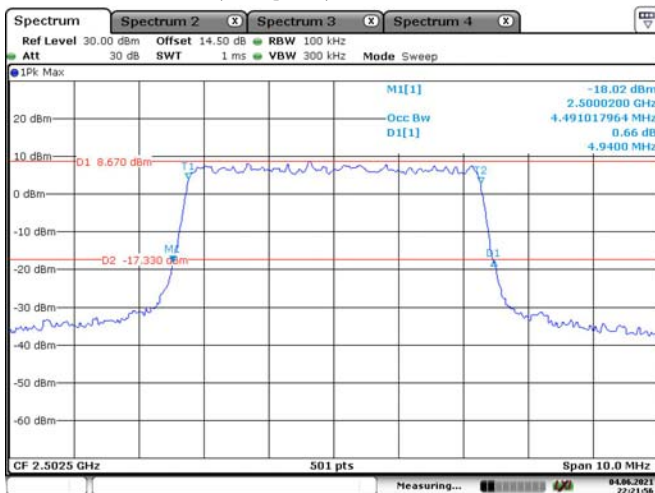


LTE Band 7:

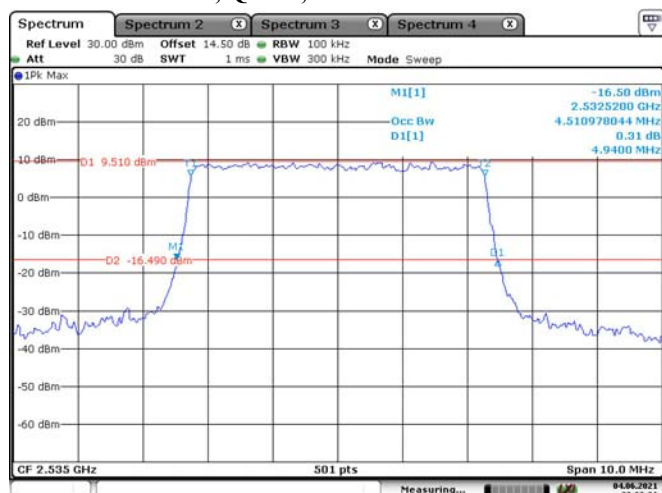
5M, QPSK, Low Channel



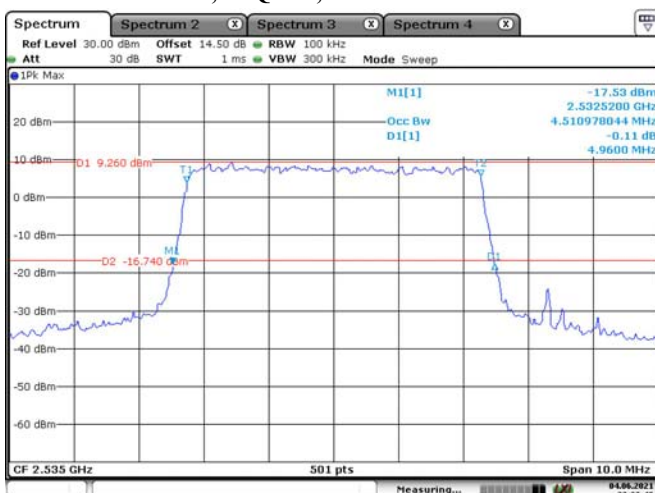
5M, 16QAM, Low Channel



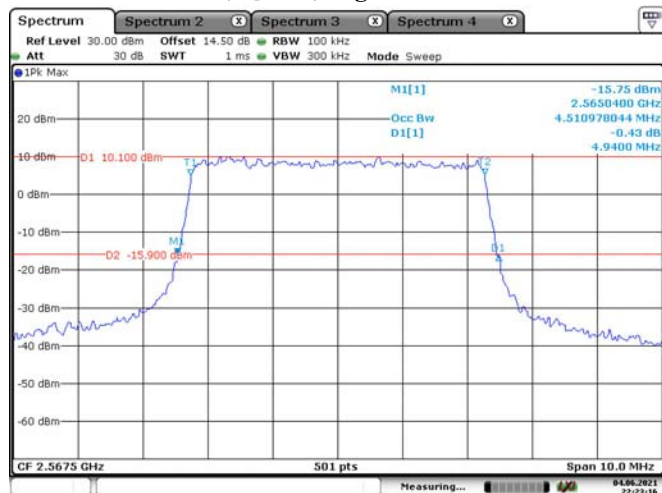
5M, QPSK, Middle Channel



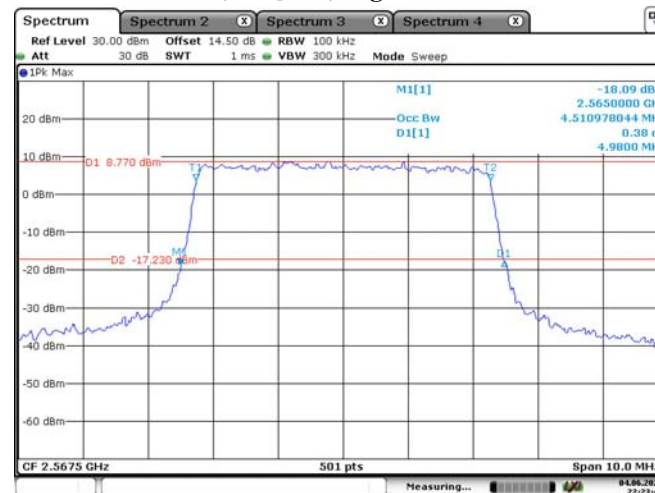
5M, 16QAM, Middle Channel



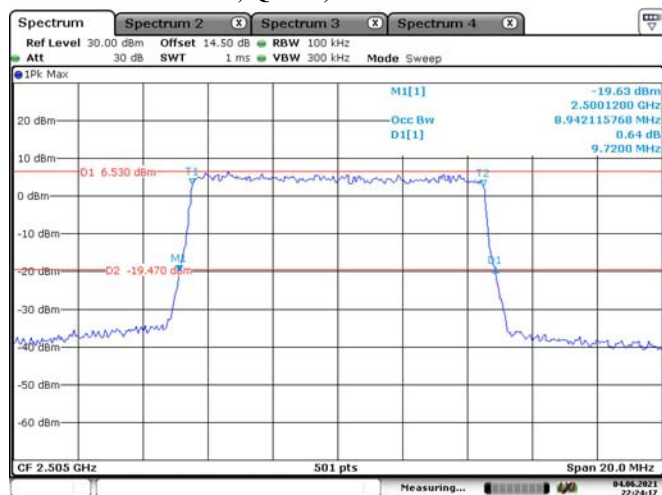
5M, QPSK, High Channel



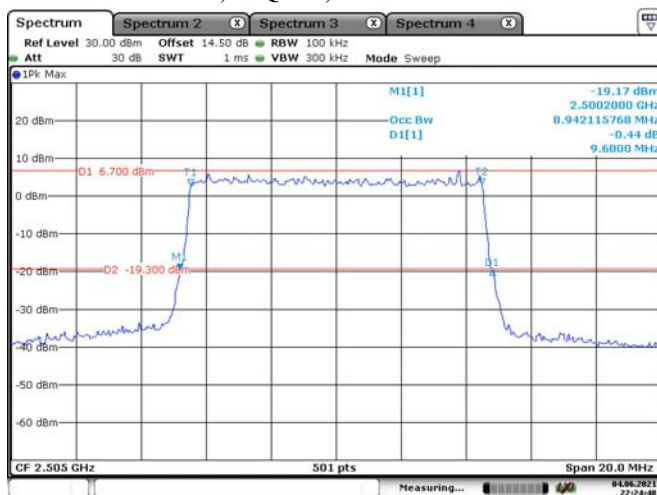
5M, 16QAM, High Channel



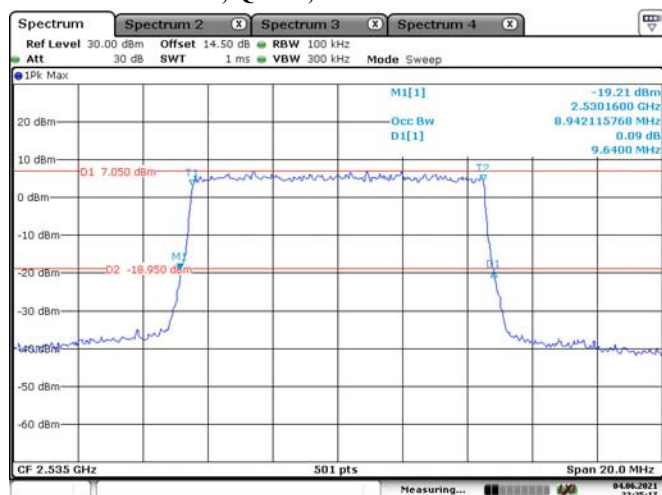
10M, QPSK, Low Channel



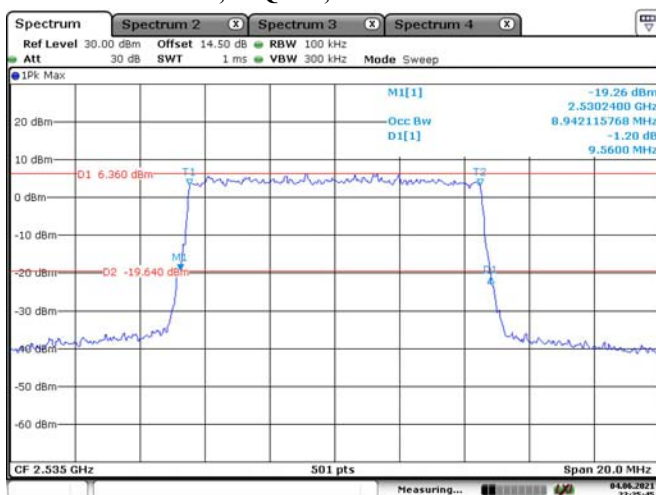
10M, 16QAM, Low Channel



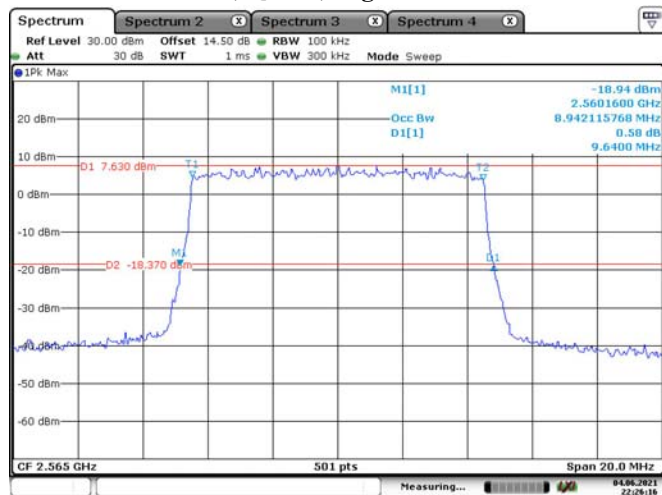
10M, QPSK, Middle Channel



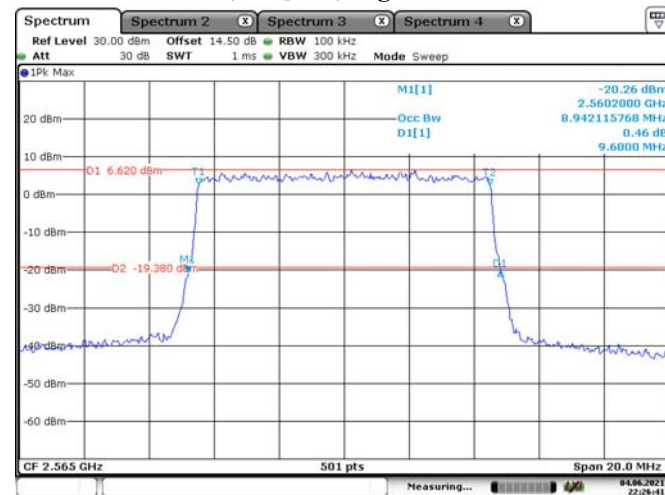
10M, 16QAM, Middle Channel



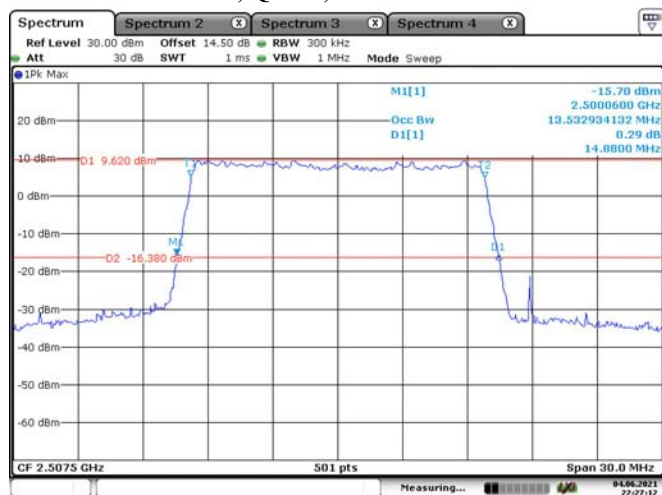
10M, QPSK, High Channel



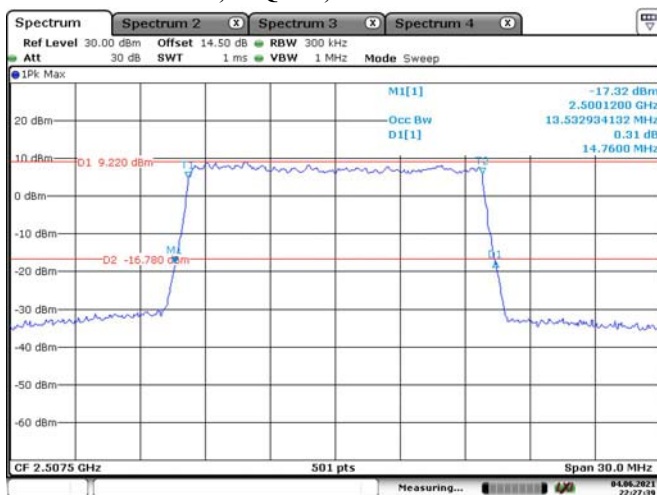
10M, 16QAM, High Channel



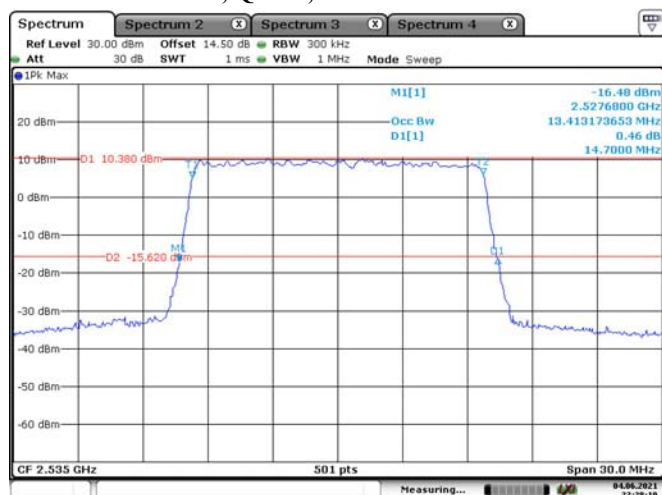
15M, QPSK, Low Channel



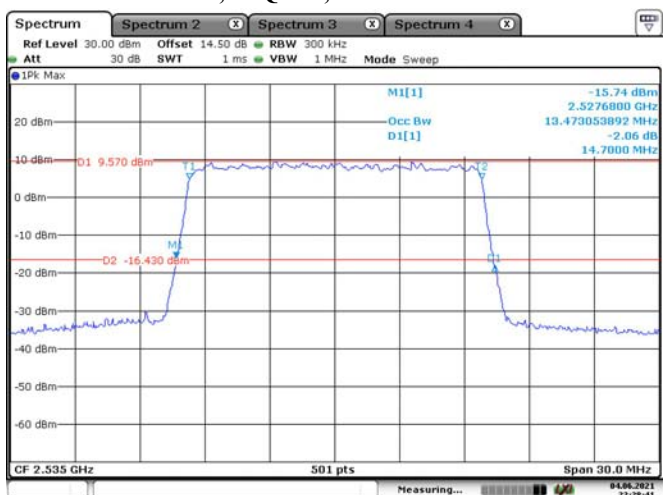
15M, 16QAM, Low Channel



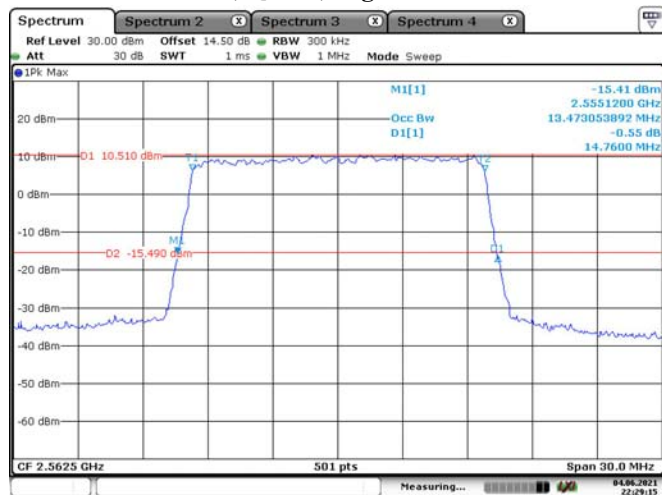
15M, QPSK, Middle Channel



15M, 16QAM, Middle Channel



15M, QPSK, High Channel



15M, 16QAM, High Channel

