

Shenzhen Huatongwei International Inspection Co., Ltd.

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FCC REPORT

Report Reference No.....: TRE1611001402 R/C.....:14625

FCC ID.....: ZSW-30-037

Applicant's name.....: b mobile HK Limited

Address...... Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak

Street; Kwai Chung; New Territories; Hong Kong.

Manufacturer..... b mobile HK Limited

Street; Kwai Chung; New Territories; Hong Kong.

Test item description: Mobile Phone

Trade Mark Bmobile

Model/Type reference...... AX1010

Listed Model(s) -

Standard FCC Part 22: PUBLIC MOBILE SERVICES

FCC Part 24:PERSONAL COMMUNICATIONS SERVICES

FCC Part 27: MISCELLANEOUS WIRELESS

COMMUNICATIONS SERVICES

Date of receipt of test sample............ Nov. 02, 2016

Date of issue...... Nov. 29, 2016

Result...... Pass

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Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

Gongming, Shenzhen, China

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1. TEST STANDARDS ANDTEST DESCRIPTION

1.1. Test Standards

The tests were performed according to following standards:

FCC Part 22(10-1-13 Edition):PRIVATE LAND MOBILE RADIO SERVICES.

FCC Part 24(10-1-13 Edition): PUBLIC MOBILE SERVICES

FCC Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

TIA/EIA 603 D June 2010: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

47 CFR FCC Part 15 Subpart B: - Unintentional Radiators

FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REGULATIONS

<u>971168 D01 Power Meas License Digital Systems v02r02:</u> provides a methodology for fully characterizing the fundamental power of wideband (> 1 MHz) digitally modulated RF signals acceptable to the FCC for demonstrating compliance for licensed transmitters.

1.2. Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c) Part 27.50 (d)	Pass
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass
Peak-Average Ratio	Part 24.232 (d) Part 27.50 (d)	Pass

Remark: The measurement uncertainty is not included in the test result.

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2. **SUMMARY**

2.1. Client Information

Applicant:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.
Manufacturer:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong.

2.2. Product Description

Name of EUT	Mobile Phone				
Trade Mark:	Bmobile				
Model No.:	AX1010				
Listed Model(s):	-				
IMEI:	354849061710481				
Power supply:	DC 3.7V From internal battery				
Adapter information:	Input:100-240Va.c., 50-60Hz, 0.15A Output: 5Vd.c.,500mA				
Hardware version:	V01				
Software version:	VH2522B_37M_3M_W2-5_LF2-4-5-7-28_E4008_M_V01_160922				
RF Technical Description					
⊠FDD Band 2					
Operation Frequency:	Uplink:1850.7 MHz – 1909.3 MHz Downlink: 1930.7 MHz – 1989.3 MHz				
Channel bandwidth:	⊠1.4MHz ⊠ 3MHz ⊠ 5MHz ⊠ 10MHz ⊠15MHz				
⊠FDD Band 4					
Operation Frequency:	Uplink:1710.7 MHz – 1754.3 MHz Downlink: 2110.7 MHz – 2154.3 MHz				
Channel bandwidth:	\square 1.4MHz \square 3MHz \square 5MHz \square 10MHz \square 15MHz \square 20MHz				
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	A 1.4IVINZ A SIVINZ A SIVINZ A 10IVINZ A 15IVINZ A 20IVINZ				
	Haliahana 7 MHz - 040 2 MHz				
Operation Frequency:	Uplink:824.7 MHz – 848.3 MHz Downlink: 869.7 MHz – 893.3 MHz				
Channel bandwidth:	⊠1.4MHz ⊠ 3MHz ⊠ 5MHz ⊠ 10MHz □15MHz □20MHz				
⊠FDD Band 7					
Operation Frequency:	Uplink:2502.5 MHz – 2567.5 MHz Downlink: 2622.5 MHz – 2687.5 MHz				
Channel bandwidth:	□1.4MHz □ 3MHz ⊠ 5MHz ⊠ 10MHz ⊠15MHz ⊠20MHz				
Power Class:	☐ Class 1 ☐ Class 2 ☐ Class 3 ☐ Class 4				
Modulation type:	⊠QPSK ⊠16QAM □64QAM				
Antennna type:	IntegralAntennna				
Antenna gain:	Band 2: -0.5 dBi, Band 4: -0.6 dBi, Band 5: -0.6 dBi, Band 7: -0.4 dBi				

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Test Frequency:

FDD Band 2

Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
Low Dongs	5	18625	1852.5	625	1932.5
Low Range	10	18650	1855	650	1935
	15 ^[1]	18675	1857.5	675	1937.5
	20 [1]	18700	1860	700	1940
Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	18900	1880	900	1960
	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
High Dangs	5	19175	1907.5	1175	1987.5
High Range	10	19150	1905	1150	1985
	15 ^[1]	19125	1902.5	1125	1982.5
	20 [1]	19100	1900	1100	1980

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

FDD Band 4

Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	19957	1710.7	1957	2110.7
Low Range	3	19965	1711.5	1965	2111.5
	5	19975	1712.5	1975	2112.5
	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
High Dongs	5	20375	1752.5	2375	2152.5
High Range	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2145

FDD Band 5

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	20407	824.7	2407	869.7
Law Banas	3	20415	825.5	2415	870.5
Low Range	5	20425	826.5	2425	871.5
	10 ^[1]	20450	829	2450	874
Mid Range	1.4/3/5 10 ^[1]	20525	836.5	2525	881.5
	1.4	20643	848.3	2643	893.3
Uink Banna	3	20635	847.5	2635	892.5
High Range	5	20625	846.5	2625	891.5
	10 ^[1]	20600	844	2600	889

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

FDD Band 7

Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	20775	2502.5	2775	2622.5
Low Range	10	20800	2505	2800	2625
Low Range	15	20825	2507.5	2825	2627.5
	20 [1]	20850	2510	2850	2630
Mid Range	5/10/15 20 ^[1]	21100	2535	3100	2655
	5	21425	2567.5	3425	2687.5
High Range	10	21400	2565	3400	2685
riigii Kange	15	21375	2562.5	3375	2682.5
	20 [1]	21350	2560	3350	2680

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

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2.3. EUT operation mode

1.The EUT has been tested under typical operating condition. The Applicant providessoftwareto control the EUT for staying in continoustransmitting and receiving mode for testing.

Tank Itania	Da			Bandy	vidth (M	Hz)		Modu	ulation		RB#		Test	Char	nel
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	Н
	2	٧	٧	٧	V	٧	V	٧	V	٧	V	٧	V	٧	٧
Max OutputPower	4	٧	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
	5	٧	٧	٧	٧	-	-	٧	V	٧	٧	٧	٧	٧	٧
	7	-	-	٧	V	V	V	٧	V	٧	٧	٧	٧	٧	٧
	2	٧	٧	٧	V	V	V	٧	V			٧	٧	٧	٧
26dB and	4	٧	٧	٧	V	٧	V	٧	V			٧	V	V	٧
26dB and 99% Bandwidth	5	٧	٧	٧	٧	-	-	٧	V			٧	٧	٧	٧
	7	-	-	٧	V	٧	V	٧	V			٧	V	٧	٧
	2	٧	٧	٧	V	٧	V	٧	٧	٧		٧	V		٧
Conducted Band Edge	4	٧	٧	٧	V	٧	V	٧	V	٧		٧	٧		٧
	5	٧	٧	٧	V	-	-	٧	V	٧		٧	٧		٧
	7	-	-	٧	V	٧	V	٧	V	٧		٧	٧		٧
	2	٧	٧	٧	٧	٧	٧	V	V	٧			٧	٧	٧
Conducted Spurious Emission	4	٧	٧	٧	V	٧	V	V	V	٧			V	٧	V
	5	٧	٧	٧	٧	-	-	٧	V	٧			٧	٧	٧
	7	-	-	٧	V	٧	V	٧	V	٧			V	٧	V
	2	٧	٧	٧	V	٧	V	٧	V	٧			٧	٧	V
E.R.P./ E.I.R.P.	4	٧	٧	٧	V	٧	V	٧	V	٧			٧	٧	V
	5	٧	٧	٧	٧	-	-	٧	V	٧			٧	٧	٧
	7	-	-	٧	٧	٧	٧	V	V	٧			٧	٧	V
	2	٧	٧	٧	٧	٧	٧	V		٧			٧	٧	V
Radiated	4	٧	٧	٧	٧	٧	٧	٧		٧			٧	٧	٧
Spurious Emission	5	٧	٧	٧	V	-	-	٧		٧			V	٧	V
	7	-	-	٧	٧	٧	٧	V		٧			٧	٧	V
	2						٧	V	V			٧		٧	
Frequency	4						٧	V	V			٧		٧	
Stability	5				V			٧	V			٧		٧	
	7						V	٧	V			٧		٧	
	2						V	٧	V	٧		٧	٧	٧	V
Peak-to- AverageRatio	4						V	٧	V	V		٧	V	٧	٧
	5				V			٧	V	٧		٧	V	٧	٧
	7						V	٧	V	V		٧	V	٧	V
Remark	2. Th 3. Th d	e mark ' e device	'-"means e is inves	that this	s bandw rom 30N	idth is no 1Hz to10	ot suppo times o	ffundame	ng ntal signal f Subsequer	for radia	ted spur	ious emi st case e	ssion te emissior	st und	er

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2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- \circ supplied by the lab

Length (m):	/
Shield:	/
Detachable :	/
Manufacturer :	/
Model No.:	/

2.5. Modifications

No modifications were implemented to meet testing criteria.

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3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phana: 86,755,26748010, Fav: 86,755,26748080

Phone: 86-755-26748019 Fax: 86-755-26748089

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories

(identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for tec hnical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until December 31, 2016.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FC C is maintained in our files. Registration 317478, Renewal date Jul. 18, 2014, valid time is until Jul. 18, 2017.

IC-Registration No.: 5377A&5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on Dec.03, 2014, valid time is until Dec.03, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Aust ralian C-Tick mark as a result of our A2LA accreditation.

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3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature/Tnor:	15~35°C
lative Humidity	30~60 %
Air Pressure	950-1050 hPa

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongweilaboratory is reported:

Test Items	MeasurementUncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)
Emission Mask		(1)
Modulation Characteristic		(1)
Transmitter Frequency Behavior		(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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3.5. Equipments Used during the Test

Output Power(Conducted) &Occupied Bandwidth&EmissionBandwidth&Band Edge Compliance&Conducted Spurious Emission									
No.	No. Equipment Manufacturer Model No. SerialNo. Last Cal.								
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	11/13/2016				
2	WIDEB.RADIO COMM.TESRER	Rohde&Schwarz	CMW500	1201.0002K50	11/13/2016				
3	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	11/13/2016				
4	Splitter	Mini-Circuit	ZAPD-4	400059	11/13/2016				

Frequency Stability							
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.		
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	11/13/2016		
2	WIDEB.RADIO COMM.TESRER	Rohde&Schwarz	CMW500	1201.0002K50	11/13/2016		
3	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	11/13/2016		
4	Climate Chamber	ESPEC	EL-10KA	05107008	11/13/2016		
5	Splitter	Mini-Circuit	ZAPD-4	400059	11/13/2016		

Output Power (Radiated) &Radiated Spurious Emission								
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.			
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	11/13/2016			
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	11/13/2016			
3	HORNANTENNA	ShwarzBeck	9120D	1012	11/13/2016			
4	HORNANTENNA	ShwarzBeck	9120D	1011	11/13/2016			
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	11/13/2016			
6	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	539	11/13/2016			
7	TURNTABLE	MATURO	TT2.0		N/A			
8	ANTENNA MAST	MATURO	TAM-4.0-P		N/A			
9	EMI Test Software	Audix	E3	N/A	N/A			
10	EMI Test Receiver	Rohde&Schwarz	ESIB 26	100009	11/13/2016			
11	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/0017	11/13/2016			
12	High pass filter	Compliance Direction systems	BSU-6	34202	11/13/2016			
13	Splitter	Mini-Circuit	ZAPD-4	400059	11/13/2016			
14	Horn Antenna	SCHWARZBECK	BBHA9170	25841	11/13/2016			
15	Horn Antenna	SCHWARZBECK	BBHA9170	25842	11/13/2016			
16	Preamplifier	ShwarzBeck	BBV 9718	BBV 9718	11/13/2016			
17	Broadband Preamplifier	ShwarzBeck	BBV743	9743-0079	11/13/2016			
18	Signal Generator	Rohde&Schwarz	SMF100A	101932	11/13/2016			
19	Amplifer	Compliance Direction systems	PAP1-4060	120	11/13/2016			
20	TURNTABLE	ETS	2088	2149	11/13/2016			
21	ANTENNA MAST	ETS	2075	2346	11/13/2016			
22	HORNANTENNA	Rohde&Schwarz	HF906	100068	11/13/2016			
23	HORNANTENNA	Rohde&Schwarz	HF906	100039	11/13/2016			
24	WIDEB.RADIO COMM.TESRER	R&S	CMW500	1201.0002K50	11/13/2016			

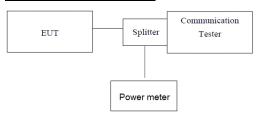
The calibration interval was one year.

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4. TEST CONDITIONS AND RESULTS

4.1. Conducted Output Power

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure the maximum burst average power.

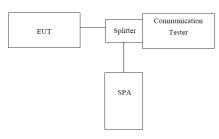
TEST RESULTS

EUT Mode	Frequency (MHz)	Max Avg.Power QPSK (dBm)	Max Avg.Power 16QAM (dBm)
LTE Band 2	1850.70 – 1909.30	22.31	21.51
LTE Band 4	1710.70 – 1754.30	22.18	21.55
LTE Band 5	824.70 - 848.30	22.10	21.92
LTE Band 7	2502.50- 2567.50	22.74	21.80

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4.2. Occupy Bandwidth

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
- 2. RBWwas set to about 1% of emission BW, VBW= 3 times RBW.
- 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

LTE Band 2						
Bandwidth	Channel	99% Occupy bandwidth (MHz)		-26dB bandwidth (MHz)		
Danuwium	Chamei	QPSK	16QAM	QPSK	16QAM	
	Low	1.10	1.09	1.29	1.28	
1.4MHz	Mid	1.10	1.10	1.28	1.29	
	High	1.10	1.10	1.28	1.28	
	Low	2.69	2.68	2.90	2.93	
3MHz	Mid	2.69	2.69	2.92	2.94	
	High	2.69	2.68	2.93	2.91	
	Low	4.53	4.54	5.09	5.08	
5MHz	Mid	4.53	4.51	5.08	5.08	
	High	4.51	4.53	5.07	5.09	
	Low	8.93	8.95	9.76	9.73	
10MHz	Mid	8.95	8.93	9.82	9.67	
	High	8.93	8.93	9.74	9.77	
	Low	13.46	13.52	14.96	14.91	
15MHz	Mid	13.52	13.52	15.00	14.90	
	High	13.46	13.49	15.01	14.95	
	Low	17.94	17.94	19.48	19.65	
20MHz	Mid	17.94	17.98	19.38	19.48	
	High	17.98	17.90	19.71	19.52	

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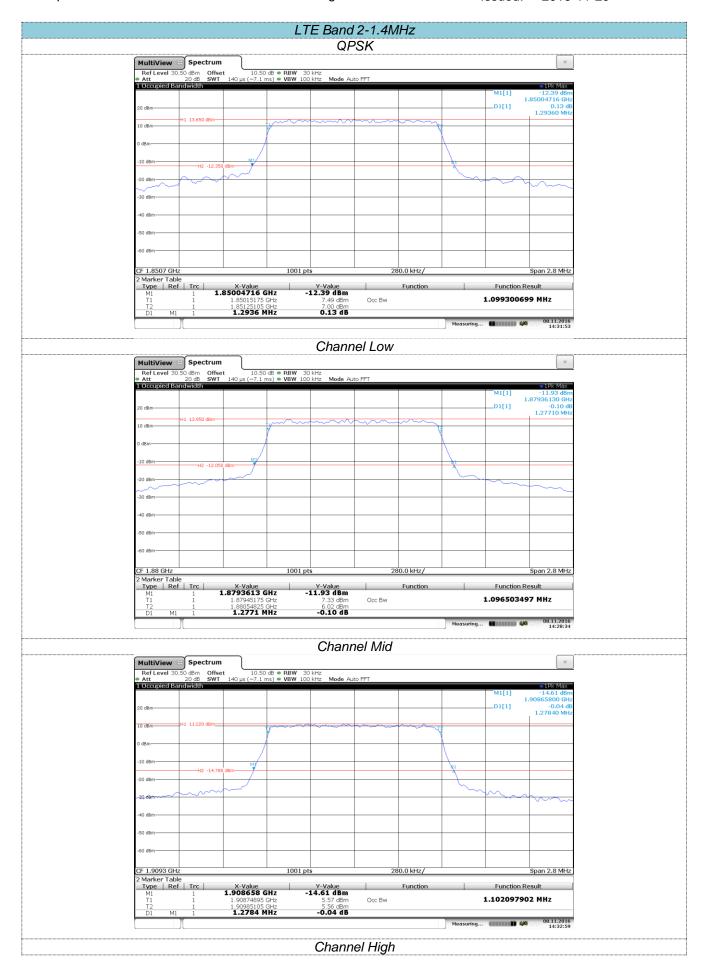
LTE Band 4						
Bandwidth	Channel	99% Occupy bandwidth (MHz)		-26dB bandwidth (MHz)		
Danuwiuin	Channel	QPSK	16QAM	QPSK	16QAM	
	Low	1.10	1.09	1.28	1.26	
1.4MHz	Mid	1.09	1.10	1.28	1.29	
	High	1.10	1.10	1.28	1.28	
	Low	2.69	2.68	2.89	2.93	
3MHz	Mid	2.69	2.68	2.92	2.93	
	High	2.69	2.68	2.92	2.91	
	Low	4.52	4.53	5.08	5.10	
5MHz	Mid	4.54	4.50	5.09	5.07	
	High	4.51	4.53	5.10	5.11	
	Low	8.95	8.95	9.76	9.74	
10MHz	Mid	8.95	8.93	9.82	9.69	
	High	8.95	8.95	9.77	9.74	
	Low	13.55	13.49	15.31	15.27	
15MHz	Mid	13.52	13.49	14.95	14.82	
	High	13.52	13.55	15.07	14.92	
	Low	17.98	17.94	19.89	19.95	
20MHz	Mid	17.94	17.94	19.37	19.37	
	High	17.90	18.02	19.85	20.72	

LTE Band 5							
Don dwidth	Channel	99% Occupy bandwidth (MHz)		-26dB bandwidth (MHz)			
Bandwidth	Channel	QPSK	16QAM	QPSK	16QAM		
	Low	1.10	1.09	1.29	1.27		
1.4MHz	Mid	1.09	1.10	1.27	1.29		
	High	1.10	1.10	1.27	1.28		
	Low	2.69	2.68	2.91	2.91		
3MHz	Mid	2.68	2.68	2.96	2.95		
	High	2.69	2.68	2.93	2.92		
	Low	4.52	4.54	5.09	5.08		
5MHz	Mid	4.54	4.52	5.09	5.08		
	High	4.52	4.52	5.04	5.08		
	Low	8.95	8.95	9.76	9.76		
10MHz	Mid	8.97	8.95	9.81	9.67		
	High	8.93	8.93	9.75	9.75		

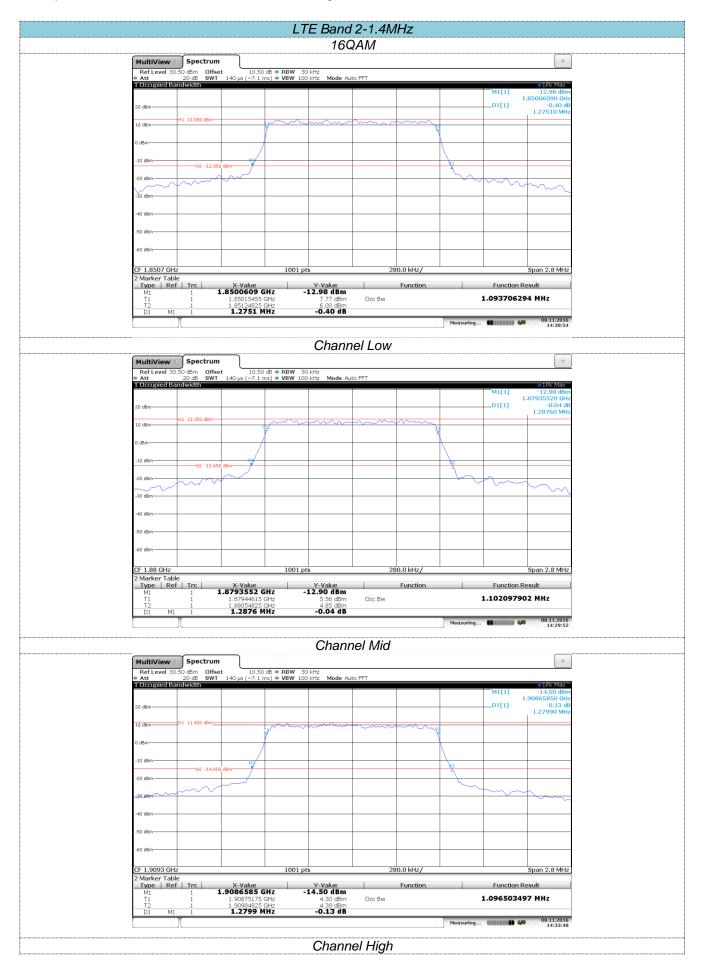
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LTE Band 7							
Bandwidth	Channel	99% Occupy ba	99% Occupy bandwidth (MHz)		-26dB bandwidth (MHz)		
bandwidth	Channel	QPSK	16QAM	QPSK	16QAM		
	Low	4.52	4.54	5.10	5.07		
5MHz	Mid	4.54	4.52	5.11	5.09		
	High	4.51	4.54	5.10	5.14		
	Low	8.95	8.95	9.67	9.80		
10MHz	Mid	8.97	8.95	9.91	9.72		
	High	8.95	8.95	9.80	9.79		
	Low	13.49	13.52	15.05	14.91		
15MHz	Mid	13.58	13.52	15.03	15.06		
	High	13.49	13.52	15.02	14.96		
	Low	17.94	17.98	19.47	19.77		
20MHz	Mid	17.98	17.98	19.54	19.59		
	High	17.98	17.94	19.80	19.52		

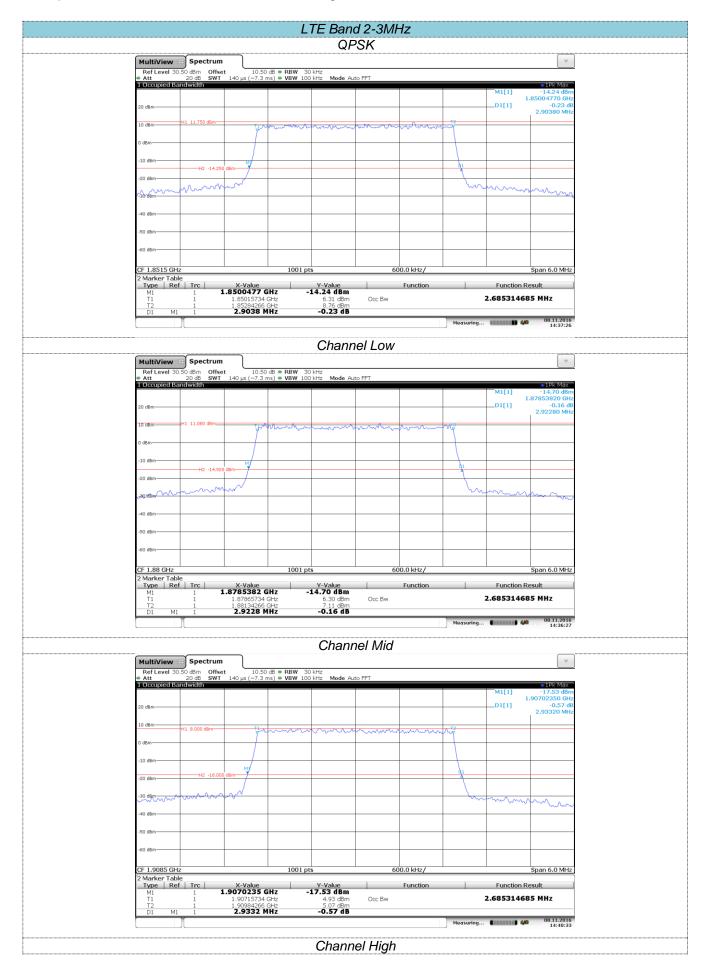
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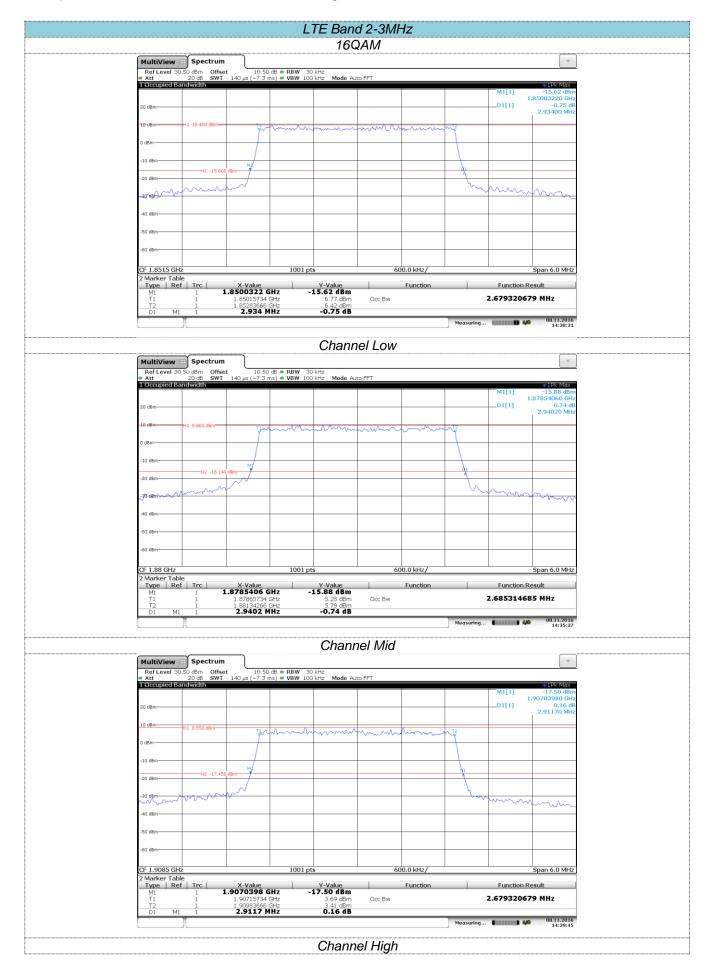
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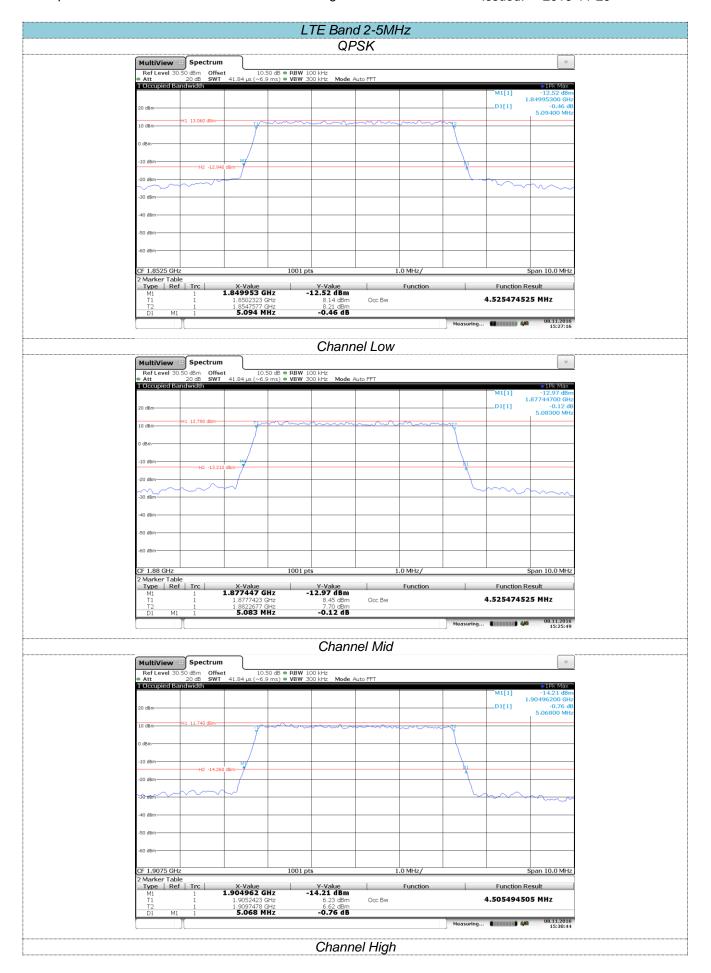
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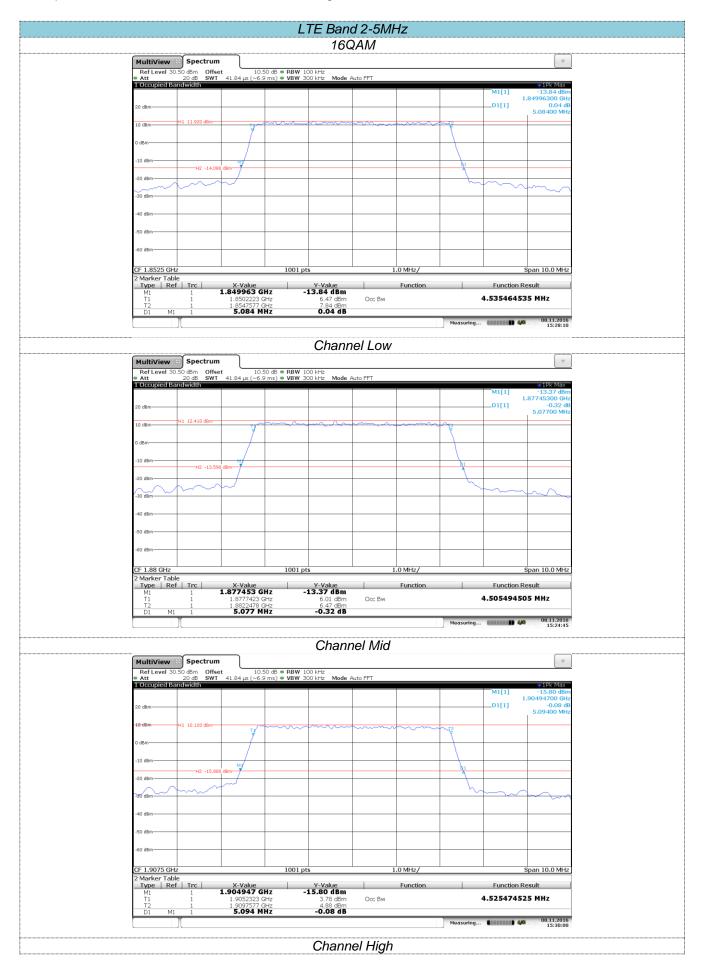
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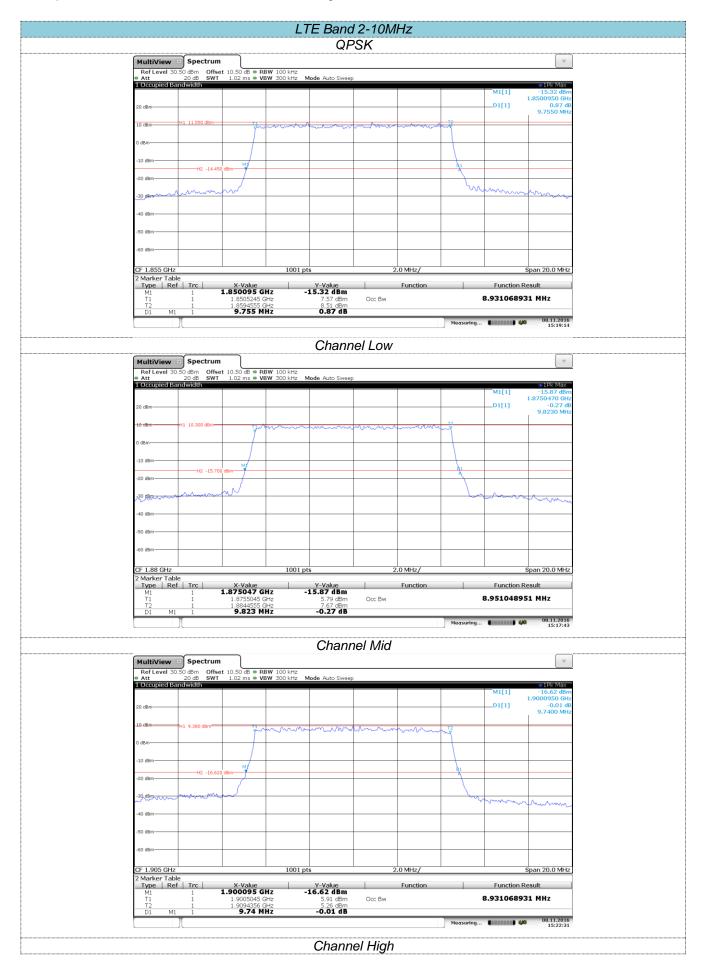
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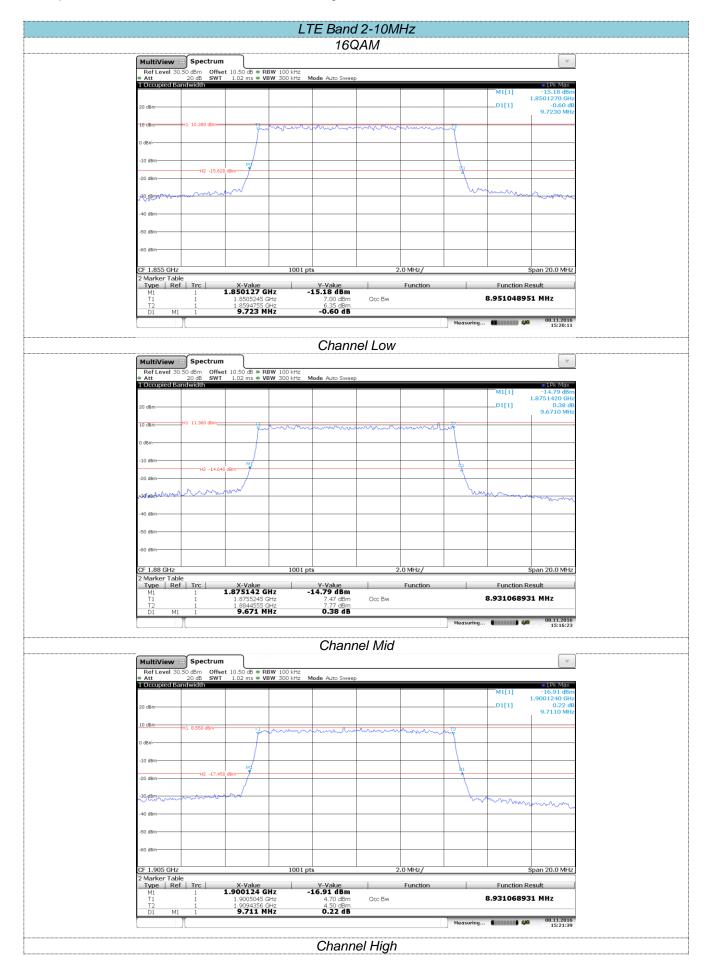
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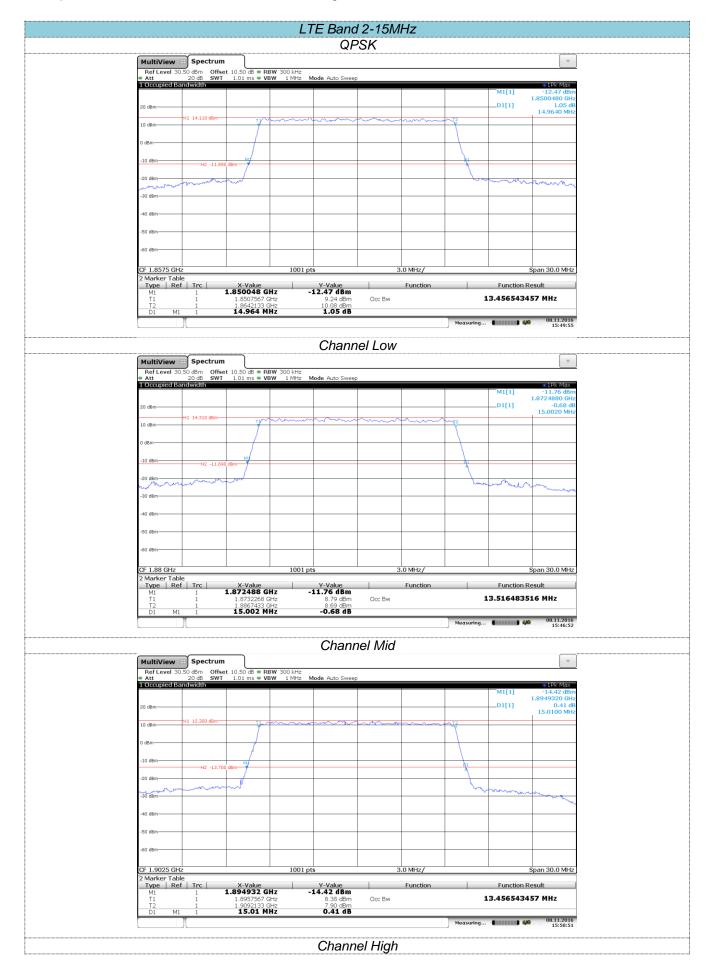
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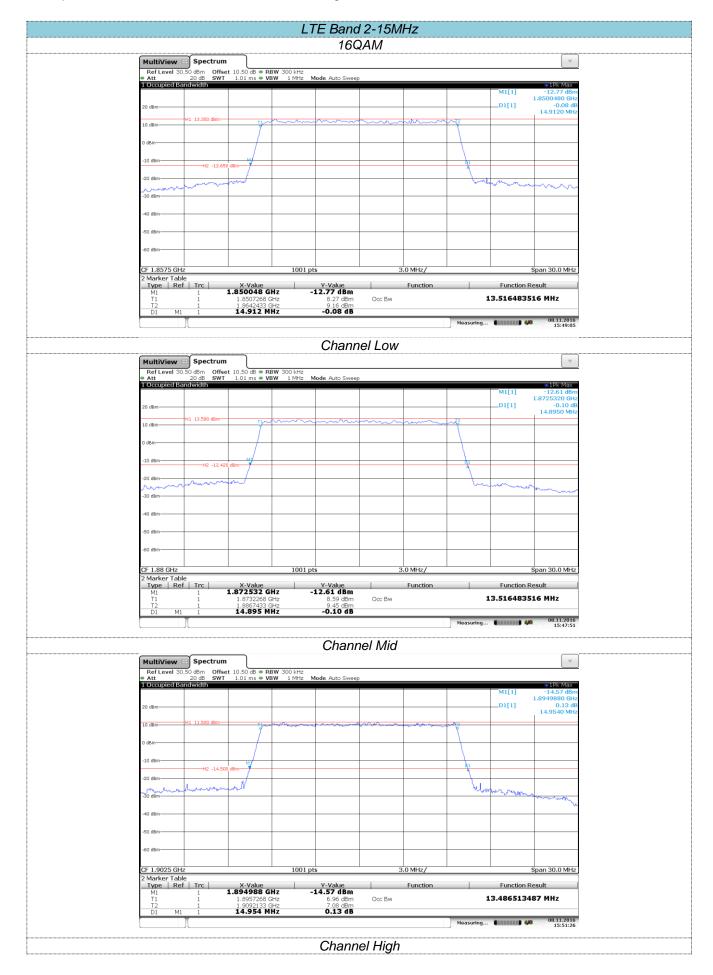
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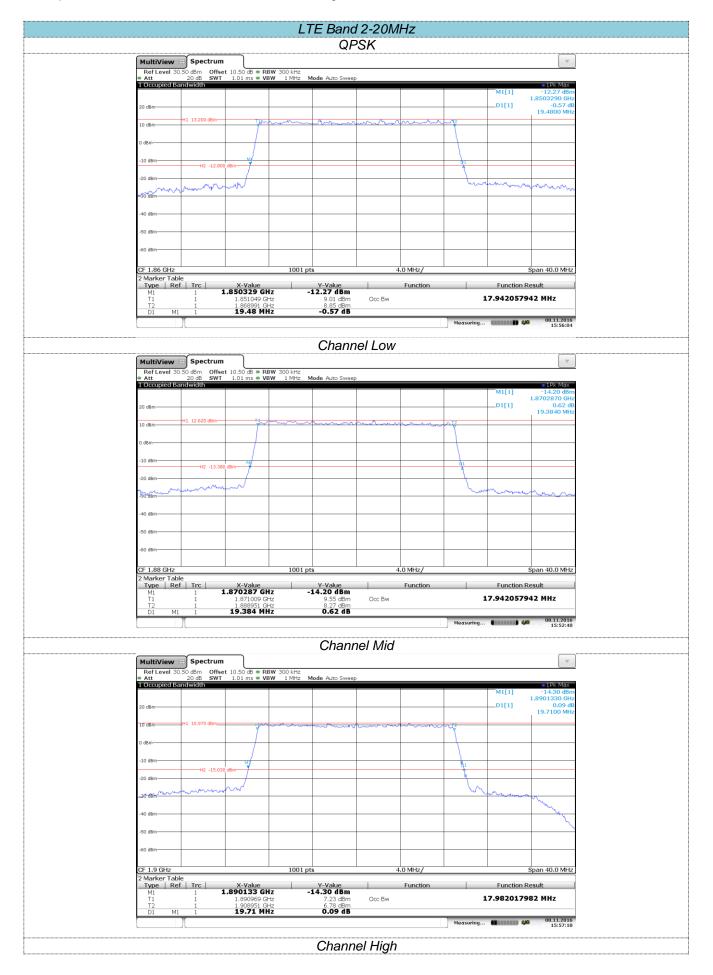
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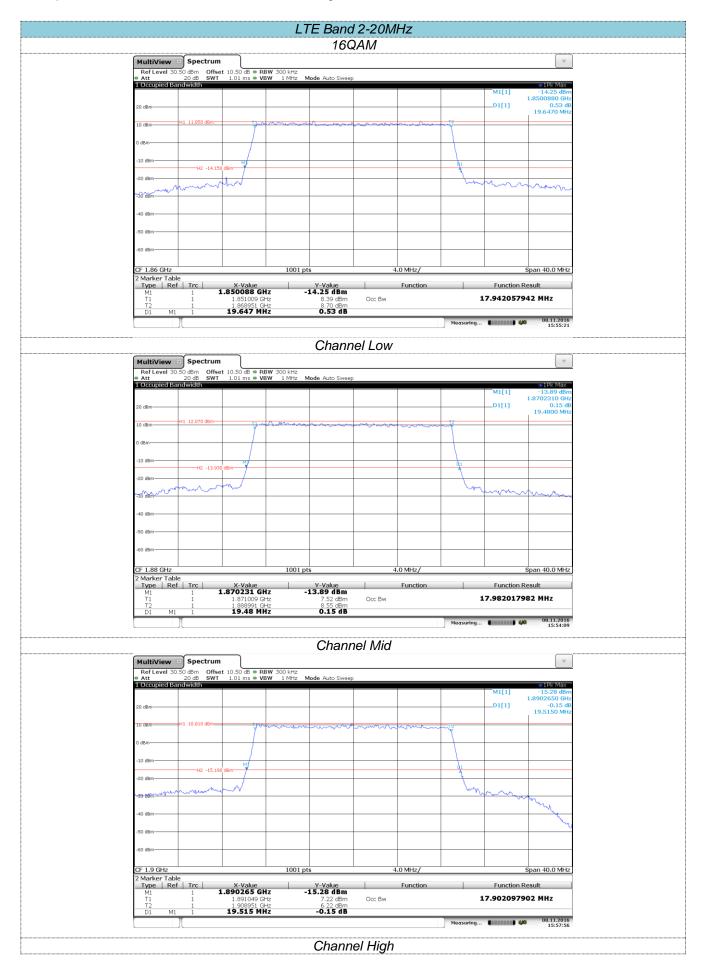
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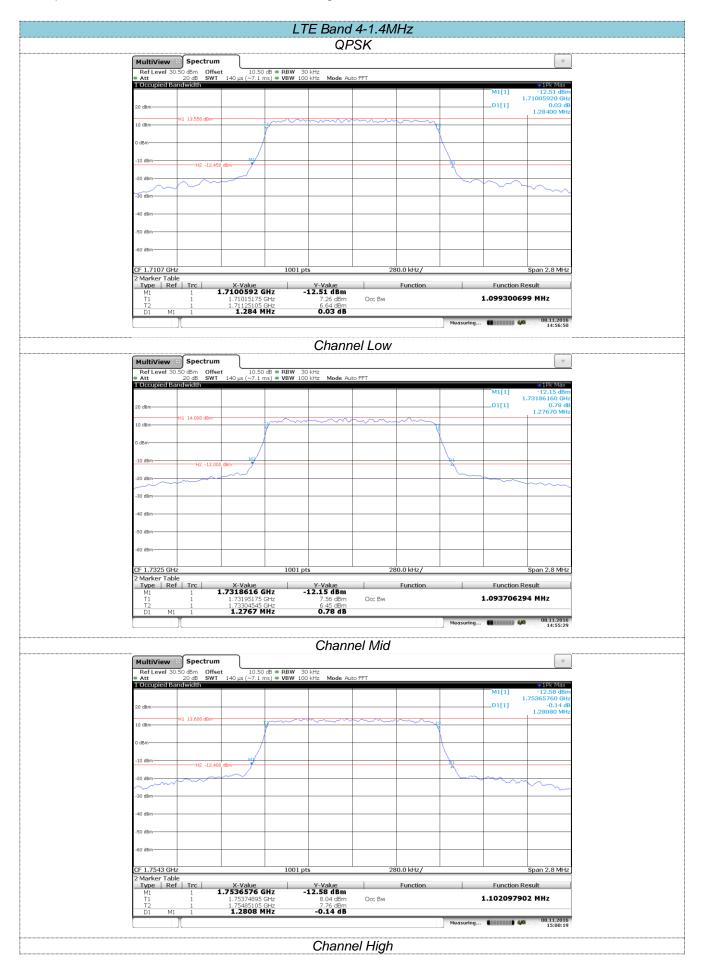
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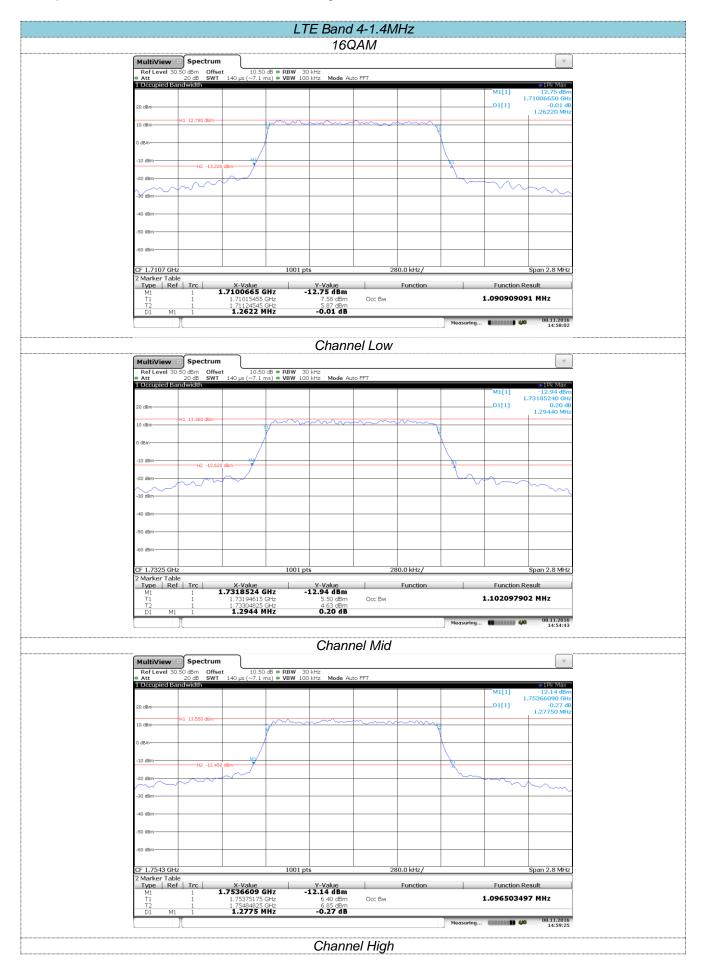
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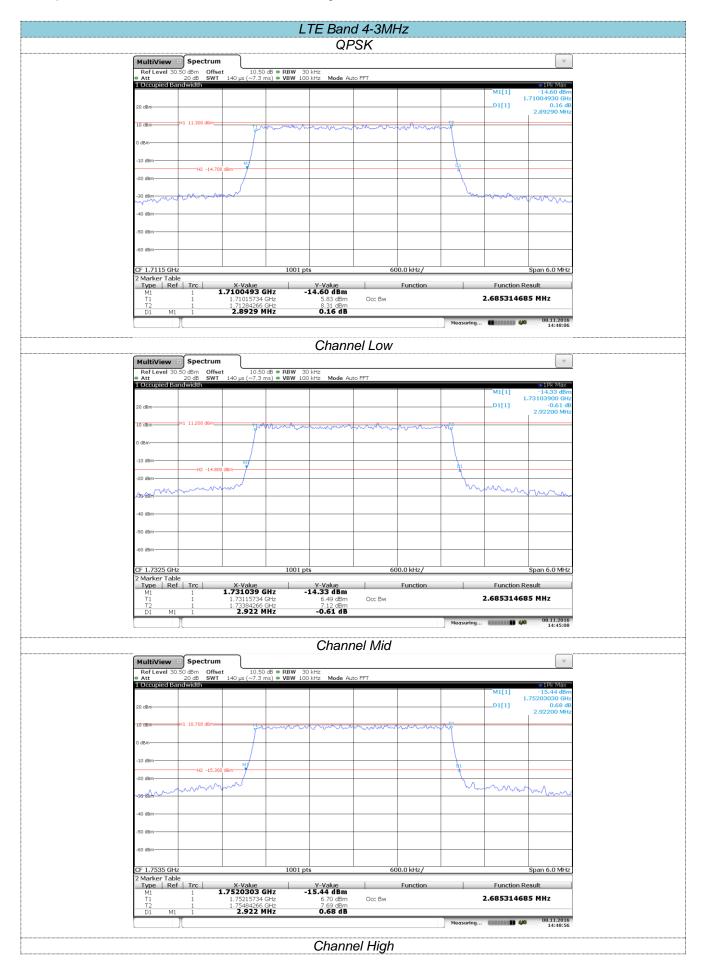
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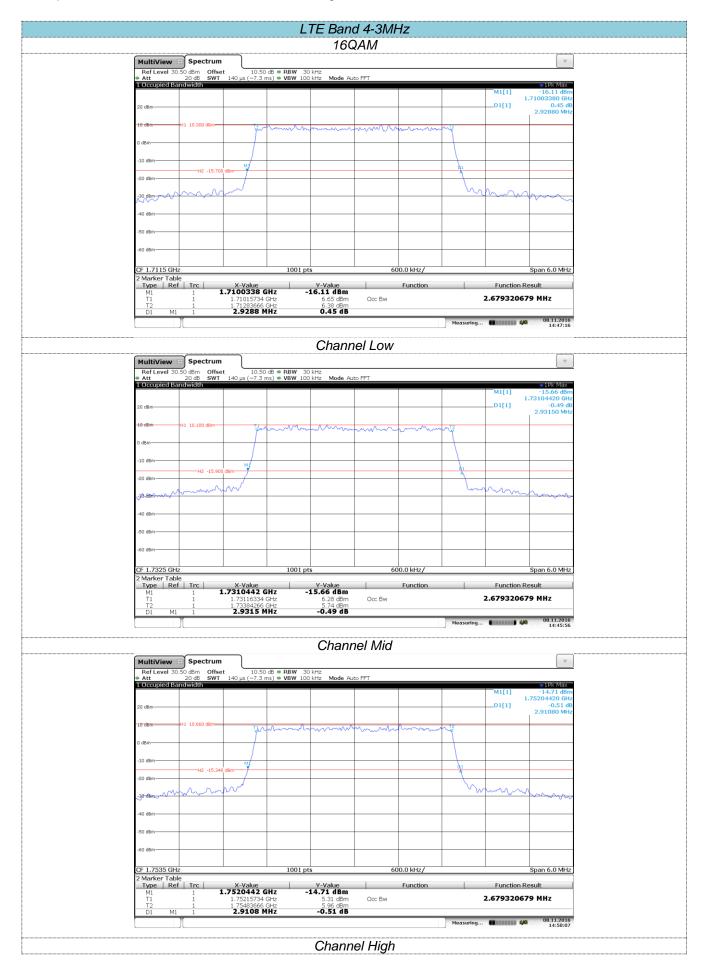
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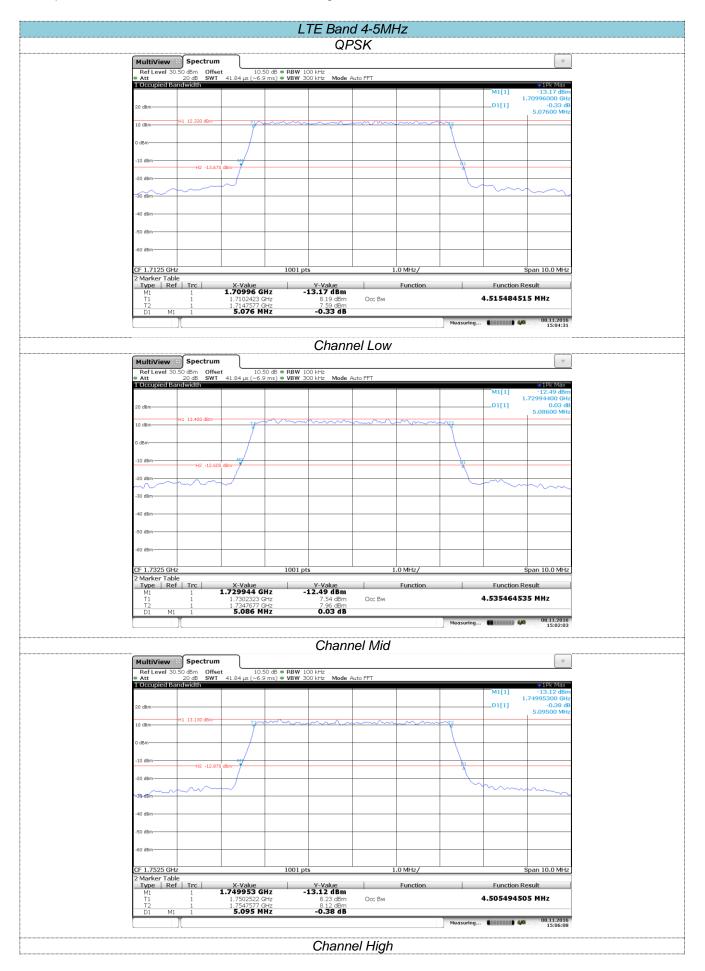
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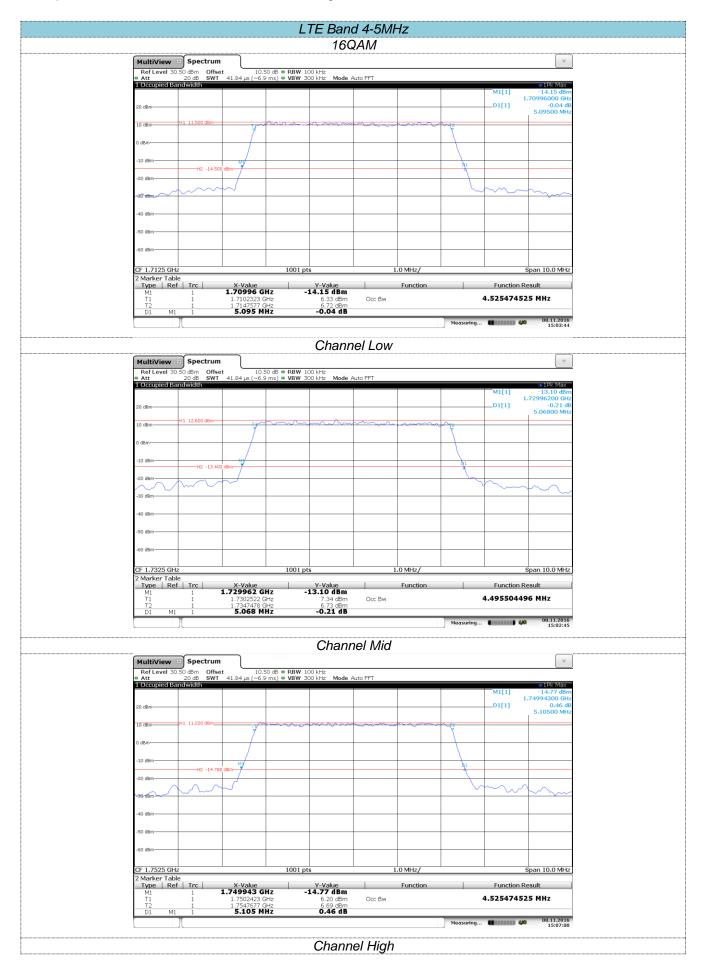
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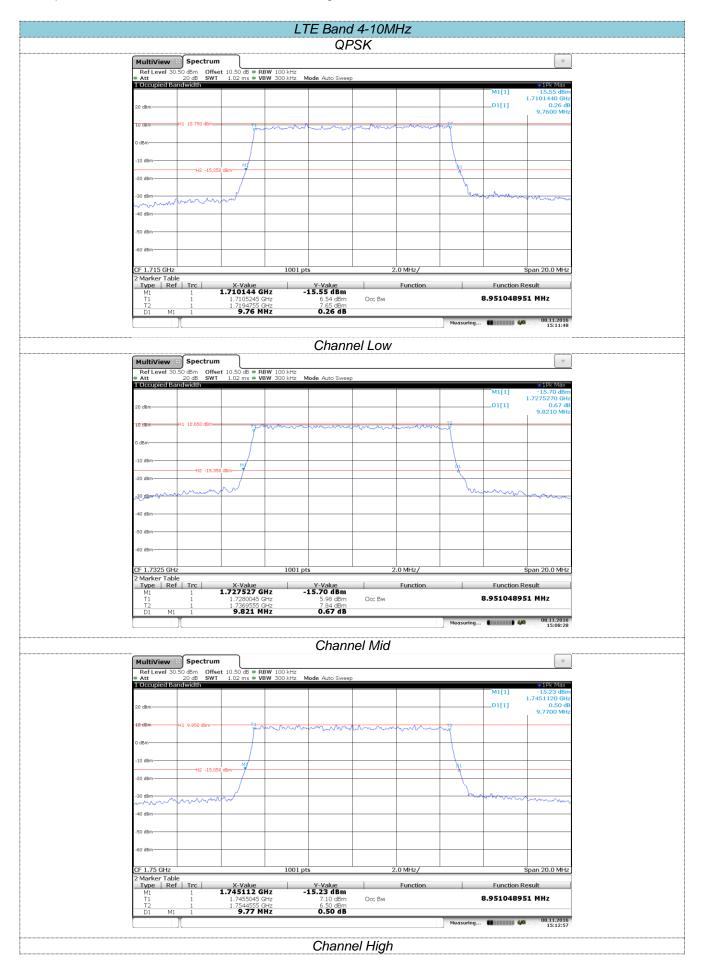
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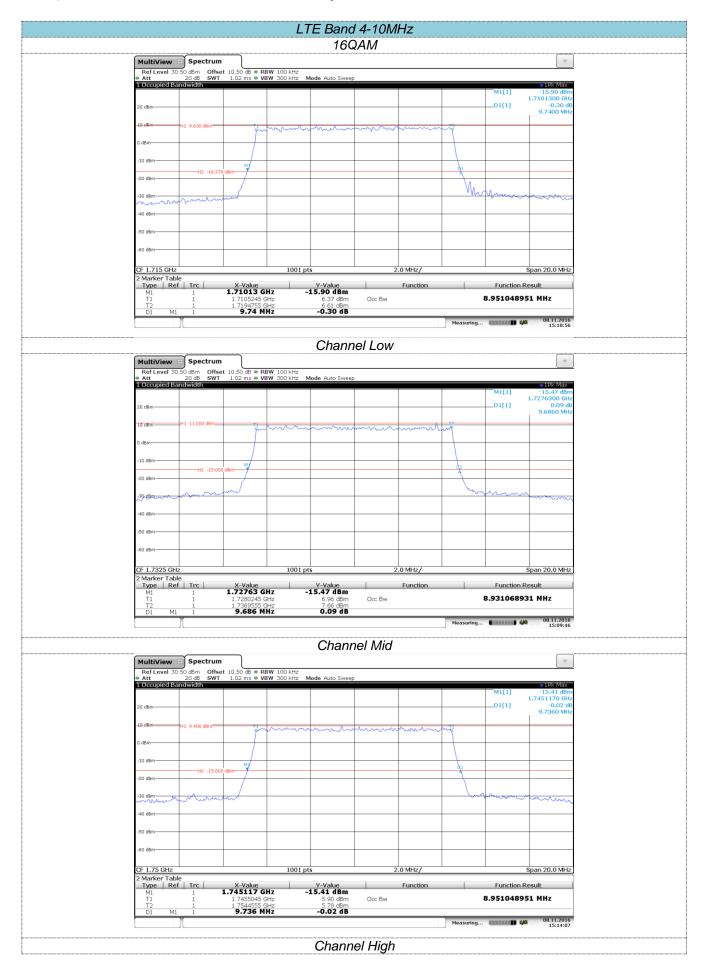
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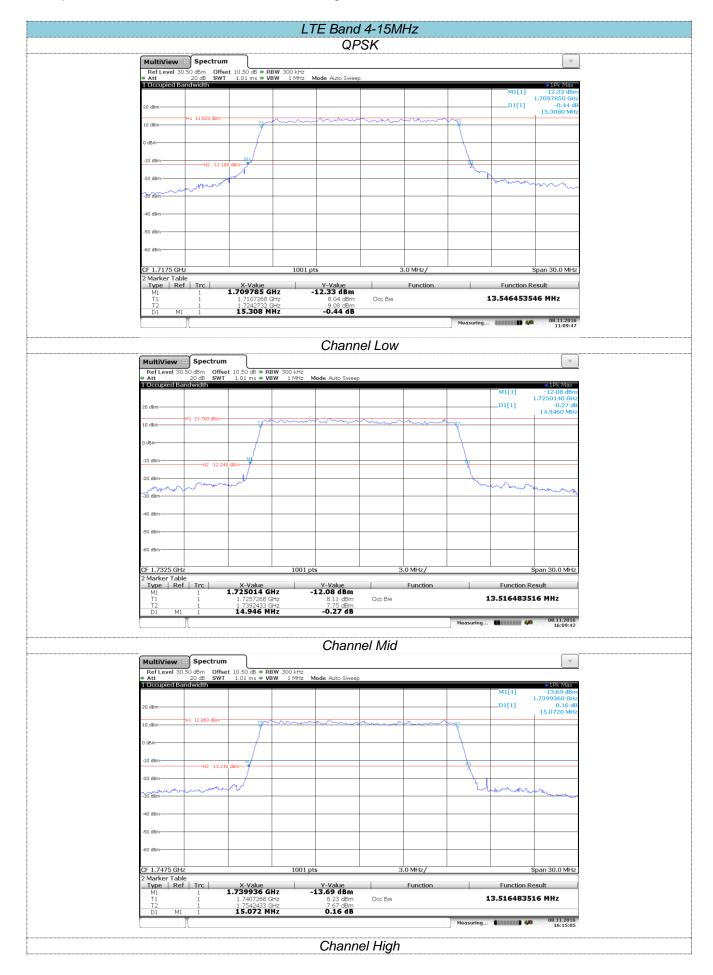
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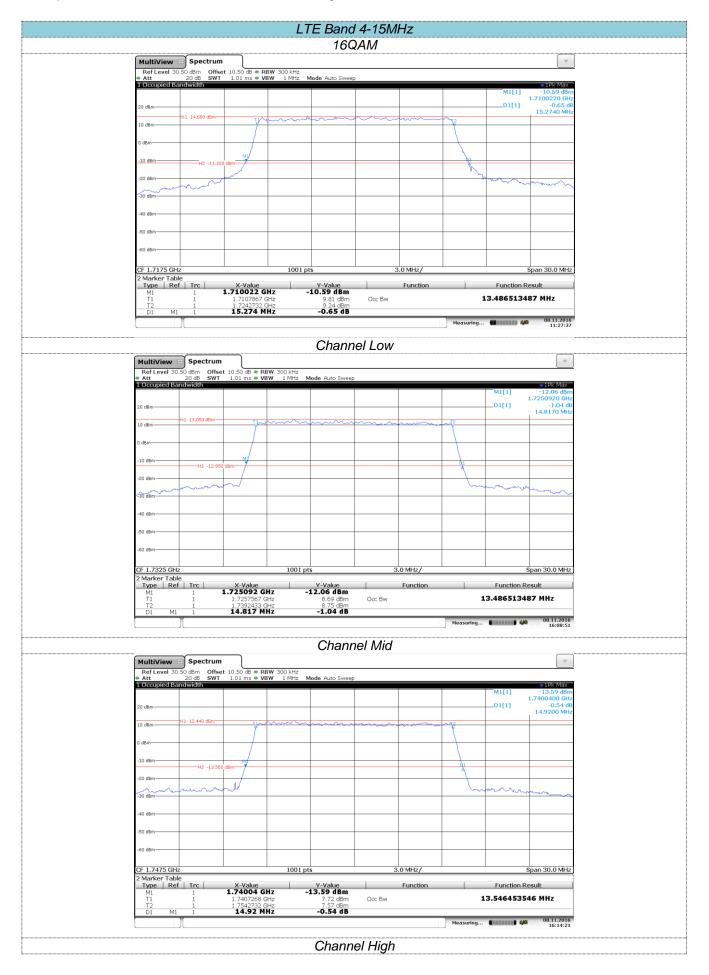
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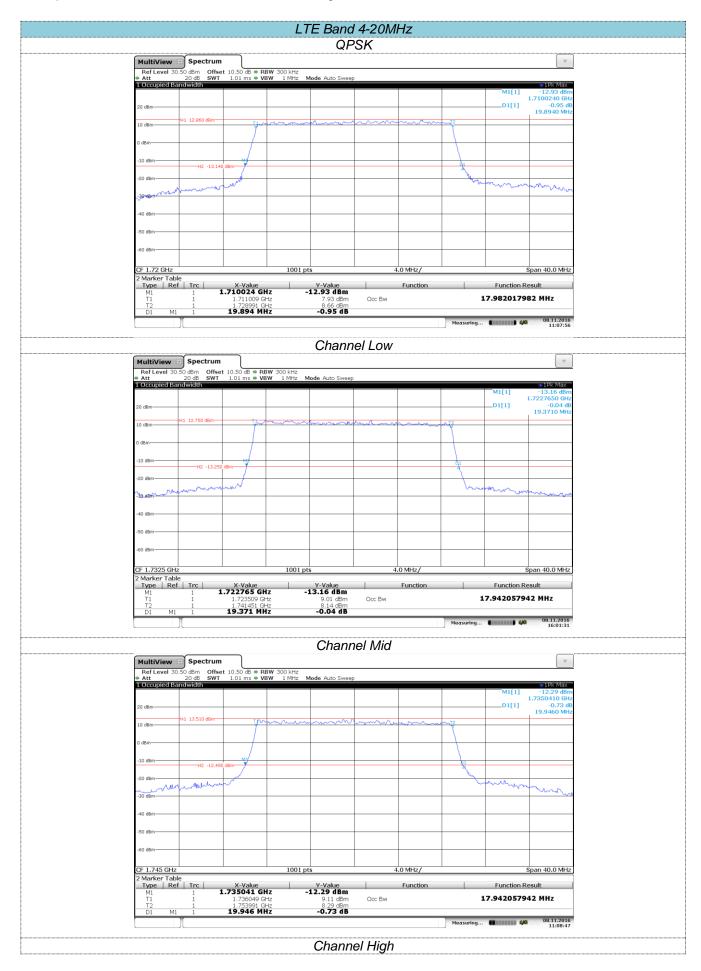
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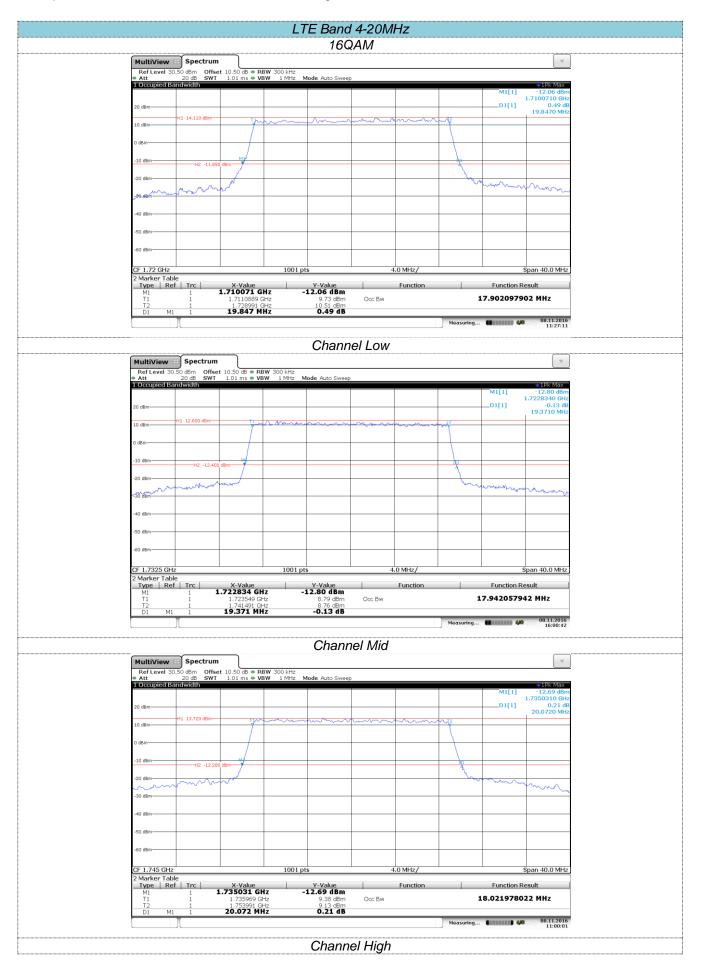
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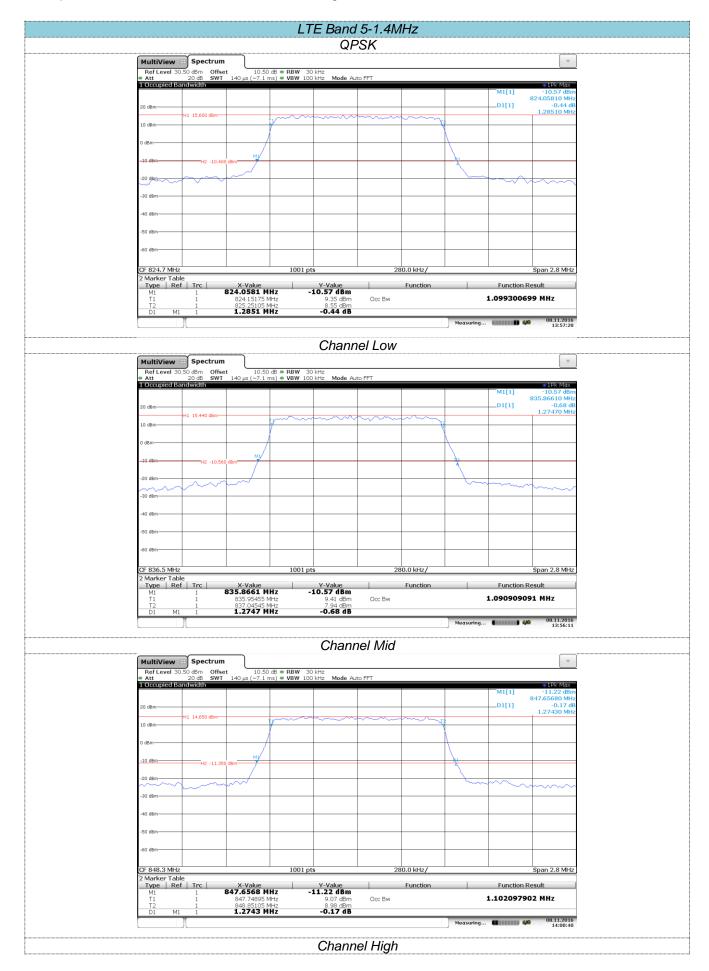
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