





FCC CFR47 PART 22H, 24E, 27 CERTIFICATION TEST REPORT FCC ID: 2ACC5-GT50VH2

Product: Handheld Device

Trade Mark: N/A

Model Number: GT50VH2

Serial Model: N/A

Report No.: SER180628704006E

Prepared for

AMobile Intelligent Corp.

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name:	AMobile Intelligent Corp.						
Address:	8F1, No.700, Zhongzheng Rd., Zhonghe Dist New Taipei City, 235 Taiwan						
Manufacturer's Name:	AMobile Intelligent Corp.						
Address:	8F1, No.700, Zhongzheng Rd., Zhonghe Dist New Taipei City, 235 Taiwan						
Product name:	Handheld Device						
Model and/or type reference:	GT50VH2						
Serial Model:	N/A						
Standards:	FCC CFR 47 Part 22H, Part 24E, Part 27						
Test procedure	: ANSI C63.26:2015						
	ANSI/TIA-603-E-2016						
	been tested by NTEK, and the test results show that the equipment with the FCC requirements. And it is applicable only to the tested						
·	d except in full, without the written approval of NTEK, this document K, personal only, and shall be noted in the revision of the document.						
Date of Test							
Date (s) of performance of tests	28 Jun. 2018 ~ 24 Aug. 2018						
Date of Issue	24 Aug. 2018						
Test Result	Pass						
Testing Engine	eer : Loren-Luo						
	(Loren Luo)						
Technical Man	nager: Juson chen						
	(Jason Chen)						
Authorized Sig	gnatory: Sam. Chew						
	(Sam Chen)						





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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

-,	<u> </u>				
Product Designation:	Handheld Device				
Trade Mark	N/A				
Model Name	GT50VH2				
FCC ID:	2ACC5-GT50VH2				
Frequency Bands:	U.S. Bands:				
Frequency bands.	☑LTE FDD Band 2,4,13				
	LTE FDD Band 2 Uplink: 1850MHz-1910MHz,				
	Downlink: 1930MHz-1990MHz;				
Frequency Range:	LTE FDD Band 4 Uplink: 1710MHz-1755MHz,				
r requericy rearrige.	Downlink: 2110MHz-2155MHz;				
	LTE FDD Band 13 Uplink: 777MHz-787MHz,				
	Downlink: 746MHz-756MHz;				
Type of Modulation:	QPSK/16QAM				
Antenna:	FPCB Antenna				
Antenna gain:	B2:-0.73dBi; B4: -0.69dBi; B13: -0.52dBi				
Power Supply:	DC 3.8V from Battery or DC 5V from USB port				
Battery parameter:	DC 3.8V, 5200mAh				
	Model:PSAF10R-050Q				
Adapter:	Input: 100-240V~50-60Hz 0.3A				
	Output: 5V===2.0A				
Extreme Vol. Limits:	DC 3.45V to 4.45V (Nominal DC 3.8V)				
Extreme Temp.	20°C to 150°C				
Tolerance	-30°C to +50°C				
HW Version	GT-500V_MB_V1.1_170929				
SW Version	V018.08.01				
** Note: The High Volta	ge 4.37V and Low Voltage 3.23V was declared by manufacturer, The EUT				

^{**} Note: The High Voltage 4.37V and Low Voltage 3.23V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.





1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ACC5-GT50VH2** filing to comply with the FCC Part 22H&24E &27.

1.3 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI/TIA-603-E-2016, FCC CFR 47 Part 2, Part 24, Part 27, ANSI C63.26:2015.

1.4 TEST FACILITY

The test site used to collect the radiated data is located at:

ShenZhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R.China.

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.26:2015& ANSI C63.4: 2014.

FCC Registration No.:463705 IC Registration No.:9270A-1, CNAS Registration No.:L5516

MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB

1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

1.6 WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based on the investigation results.

The device has LTE Bands of: Band 2, Band 4, Band 13

The RB Size was selected to measure for peak or average ERP and EIRP, which was based on the conducted power verification baseline data.

For the fundamental investigation of radiated emissions, the EUT is investigated for vertical and





horizontal antenna orientations and X Y and Z orientations of the EUT alone. After the investigations the worst case was determined to be at X orientation for all LTE bands.

2. SYSTEM TEST CONFIGURATION

2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT EXERCISE

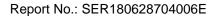
The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.3 CONFIGURATION OF EUT SYSTEM

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Series No.	Note
1	Handheld Device	GT50VH2	N/A	EUT

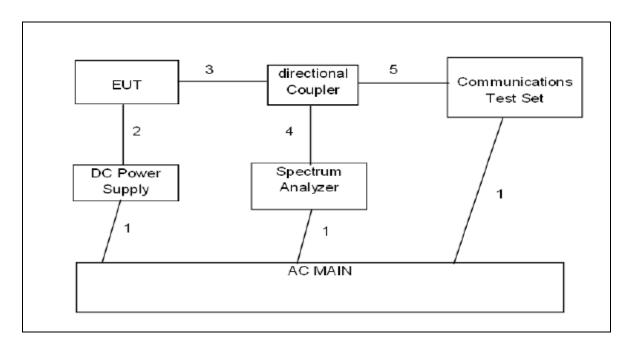
Note: All the accessories have been used during the test. the following "EUT" in setup diagram means EUT system.



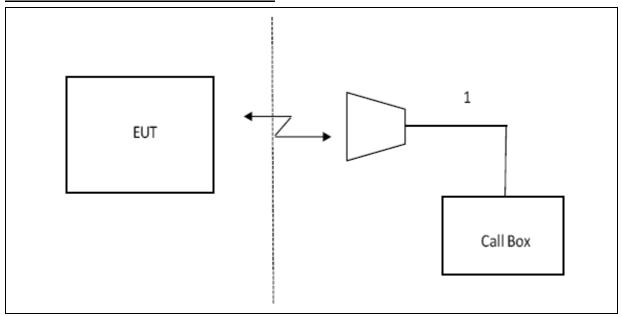




2.4 TEST SETUP CONDUCTED SETUP DIAGRAM FOR TESTS



RADIATED SETUP DIAGRAM FOR TESTS







3.TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	NEXT CAL. DATE
SPECTRUM ANALYZER	AGILENT	E4440A	US44300399	2019.03.28
TEST RECEIVER	R&S	ESCI	A0304218	2019.05.18
COMMUNICATION TESTER	R&S	CMU200	A0304247	2019.05.18
COMMUNICATION TESTER	R&S	CMW500	Х	2019.05.18
TEST RECEIVER	R&S	FCKL1528	A0304230	2019.05.18
LISN	SCHWARZBECK	NSLK8127	A0304233	2019.05.18
CLIMATE CHAMBER	ALBATROSS			2019.05.18
Loop Antenna	Daze	ZN30900N	SEL0097	2019.05.18
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	N/A	2019.05.18
Horn Antenna EM		EM-AH-10180	N/A	2019.04.07
DC Power Source	N/A	PS-6005D	20170402923	2020.06.05





4. OUTPUT POWER

4.1 OUTPUT POWER MEASUREMENT

LTE Measurement Procedure:

All LTE bands conducted power peak and average are obtained from the CMW500 telecommunication test set. 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	Cha	Channel bandwidth / Transmission bandwidth (RB)								
	1.4 MHz									
QPSK	> 5	> 4	>8	> 12	> 16	> 18	≤ 1			
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1			
16 QAM	> 5	> 4	>8	> 12	> 16	> 18	≤ 2			

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





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	
			3	>5	≤ 1	
			5	>6	≤ 1	
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36	10	>6	≤ 1	
		00, 00	15	>8	≤ 1	
			20	>10	≤ 1	
NO OA	00000	44	5	>6	≤ 1	
NS_04	6.6.2.2.2	41	10, 15, 20	See Tab	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	
NO 07	6.6.2.2.3	13	10	Table 6.2.4-2	Table 6 0 4 0	
NS_07	6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2	
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3	
NO OO	66004	0.1		> 40	≤ 1	
NS_09	6.6.3.3.4	21	10, 15	> 55	≤ 2	
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3	
NS_11	6.6.2.2.1	231	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5	
NS_32	-	-	-	-	-	
Note 1: A	pplies to the lower l	block of Band 23, i.e	. a carrier place	d in the 2000-201	10 MHz region.	





4.2 LTE BAND 2

OUTPUT POWER FOR LTE BAND 2 (1.4MHZ)

Band	Band	Channel	Frequency	Modulation	RB Config	guration	Average	Peak
Band	Width	Charmer	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	23.11	28.36
					1	Mid	23.98	29.67
				ODCK	1	High	23.95	29.61
				QPSK	3	Low	23.88	29.74
					3	High	23.84	29.45
	4 48411-	40007	4050.7		6	Low	22.90	29.75
	1.4MHz	18607	1850.7		1	Low	23.29	29.16
					1	Mid	23.18	29.09
				16QAM	1	High	23.18	29.05
					3	Low	23.19	29.20
					3	High	23.27	29.32
					6	Low	22.21	29.34
					1	Low	23.73	28.08
			1880.0	QPSK	1	Mid	23.75	28.14
					1	High	23.71	28.19
					3	Low	23.70	28.46
		18900			3	High	23.71	28.56
Band	1.4MHz				6	Low	22.99	28.40
2	1.4IVIHZ			16QAM	1	Low	23.22	27.91
					1	Mid	22.98	27.73
					1	High	23.20	28.00
					3	Low	23.11	28.63
					3	High	23.05	28.69
					6	Low	22.13	28.54
					1	Low	23.87	29.00
					1	Mid	23.78	28.64
				QPSK	1	High	23.68	28.55
				QFSK	3	Low	23.82	28.90
					3	High	23.74	28.85
	1 /N/ILI-	10102	1909.3		6	Low	22.95	28.68
	1.4MHz	19193	1909.3		1	Low	23.29	28.19
					1	Mid	23.23	28.01
				16QAM	1	High	23.22	27.96
					3	Low	23.19	29.19
					3	High	23.11	28.92
					6	Low	22.22	28.92





OUTPUT POWER FOR LTE BAND 2 (3.0MHZ)

Band	Band	Channel	Frequency	Modulation	RB Config	guration	Average	Peak
Danu	Width	Onamici	(MHz)	Wodulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	23.80	28.67
					1	Mid	23.69	28.49
				QPSK	1	High	23.40	28.32
				QFSK	8	Low	23.09	28.87
					8	High	22.99	28.48
	3.0 MHz	18615	1851.5		15	Low	22.94	29.05
	0.0 WII 12	10015	1651.5		1	Low	23.54	29.32
					1	Mid	23.40	28.99
				16QAM	1	High	23.33	29.06
					8	Low	22.38	29.02
					8	High	22.30	28.85
					15	Low	22.12	28.95
					1	Low	23.57	27.49
			1000.0	QPSK	1	Mid	23.45	27.93
					1	High	23.51	28.12
					8	Low	23.02	28.07
					8	High	23.05	28.38
Band	0.0 MH.	40000			15	Low	23.00	29.16
2	3.0 MHz	18900	1880.0	16QAM	1	Low	23.25	27.69
					1	Mid	23.20	27.98
					1	High	23.18	28.19
					8	Low	22.23	27.90
					8	High	22.22	27.77
					15	Low	22.15	28.53
					1	Low	23.99	28.39
				ļ	1	Mid	23.79	28.53
				OBOK	1	High	23.68	28.21
				QPSK	8	Low	23.23	28.67
					8	High	23.09	28.58
	0.0 1417	40405	4000 5		15	Low	22.90	28.87
	3.0 MHz	19185	1908.5		1	Low	23.71	29.13
					1	Mid	23.62	29.27
				16QAM	1	High	23.43	28.87
					8	Low	22.55	28.87
					8	High	22.40	28.86
					15	Low	22.28	28.88





OUTPUT POWER FOR LTE BAND 2 (5.0MHZ)

	Band		Frequenc		RB Config	guration	Average	Peak
Band		Channel	у	Modulation			Power(dBm)	Power(dBm
	Width		(MHz)		RB Size	RB Offset)
					1	Low	23.86	29.27
					1	Mid	23.53	29.01
				0.0017	1	High	23.43	29.06
				QPSK	12	Low	23.11	28.93
					12	High	22.99	28.83
	5 0 MII-	40005	4050.5		25	Low	23.09	29.12
	5.0 MHz	18625	1852.5		1	Low	23.00	28.77
					1	Mid	22.79	28.55
				16QAM	1	High	22.74	28.61
					12	Low	22.22	29.16
					12	High	22.10	29.09
					25	Low	22.15	29.60
					1	Low	23.45	27.56
					1	Mid	23.40	28.01
				QPSK	1	High	23.44	28.36
				QPSK	12	Low	23.10	27.87
					12	High	23.05	28.43
Band	5.0 MHz	18900	1880.0		25	Low	23.03	28.60
2	3.0 IVITZ	10900	1000.0		1	Low	23.18	27.82
					1	Mid	23.11	28.35
				16QAM	1	High	23.17	28.83
					12	Low	22.20	27.82
					12	High	22.15	28.27
					25	Low	22.15	28.48
					1	Low	23.99	28.38
					1	Mid	23.73	28.67
				QPSK	1	High	23.48	28.41
				QF SIN	12	Low	23.38	28.90
					12	High	23.13	29.06
	5.0 MHz	19175	1907.5		25	Low	23.23	29.33
	J.U IVITIZ	19175	1907.3		1	Low	23.66	28.45
					1	Mid	23.43	28.74
				16QAM	1	High	23.25	28.64
					12	Low	22.57	28.61
					12	High	22.39	28.72
					25	Low	22.38	29.86





OUTPUT POWER FOR LTE BAND 2 (10.0MHZ)

			Frequenc		RB Config	nuration	Average	Peak
Band	Band	Channel	y y	Modulation			Power(dBm)	Power(dBm
Baria	Width	Orianiioi	(MHz)	Woddiation	RB Size	RB Offset	1 owor(abiii))
					1	Low	23.73	28.58
					1	Mid	23.38	28.37
				0.0014	1	High	23.24	28.42
				QPSK	25	Low	23.16	29.01
					25	High	22.91	28.99
	10.0	40050	4055.0		50	Low	23.06	29.28
	MHz	18650	1855.0		1	Low	23.78	29.15
					1	Mid	23.37	29.11
				16QAM	1	High	23.27	29.56
					25	Low	22.27	28.99
					25	High	22.10	28.98
					50	Low	22.11	29.50
					1	Low	23.83	27.50
					1	Mid	23.53	27.94
				ODCK	1	High	23.64	28.50
				QPSK	25	Low	23.18	27.58
					25	High	23.11	28.89
Band	10.0	40000	4000.0		50	Low	23.16	28.65
2	MHz	18900	1880.0		1	Low	23.39	27.57
					1	Mid	22.97	27.83
				16QAM	1	High	23.29	28.37
					25	Low	22.28	27.63
					25	High	22.23	28.88
					50	Low	22.30	28.87
					1	Low	23.97	28.59
					1	Mid	23.74	28.21
				QPSK	1	High	23.61	28.55
				QFSN	25	Low	23.59	28.65
					25	High	23.25	28.69
	10.0	19150	1905.0		50	Low	23.41	29.27
	MHz	19150	1905.0		1	Low	23.99	28.88 28.87 28.59 28.21 28.55 28.65 28.69 29.27 28.25 27.76
					1	Mid	23.49	27.76
				16QAM	1	High	23.38	28.29
			16QAM		25	Low	22.68	28.80
					25	High	22.35	28.99
					50	Low	22.49	29.18





OUTPUT POWER FOR LTE BAND 2 (15.0MHZ)

3331			Frequenc		RB Config	uration	Average	Peak
Band	Band Width	Channel	у	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm
	Width		(MHz)		ND 0120	ND Ollset)
					1	Low	23.80	28.82
					1	Mid	23.37	28.49
				QPSK	1	High	23.45	28.37
				QFSN	36	Low	23.47	29.27
					36	High	23.12	29.27
	15.0	18675	1857.5		75	Low	23.23	29.91
	MHz	10073	1007.0		1	Low	23.86	29.28
					1	Mid	23.44	29.42
				16QAM	1	High	23.54	29.42
					36	Low	22.44	29.29
					36	High	22.19	29.72
					75	Low	22.12	29.45
					1	Low	24.00	27.74
					1	Mid	23.51	27.76
				QPSK	1	High	23.73	28.56
				QP3K	36	Low	23.32	27.80
					36	High	23.17	28.98
Band	15.0	18900	1880.0		75	Low	23.22	29.33
2	MHz	10900	1000.0		1	Low	23.95	27.76
					1	Mid	23.35	27.88
				16QAM	1	High	23.66	28.82
					36	Low	22.34	27.76 27.88 28.82 27.71
					36	High	22.22	29.05
					75	Low	22.27	28.87
					1	Low	23.98	29.62
					1	Mid	23.73	28.10
				QPSK	1	High	23.62	28.54
				QFSK	36	Low	23.73	28.87
					36	High	23.34	28.92
	15.0	10105	1002 F		75	Low	23.61	30.09
	MHz	19125	1902.5		1	Low	23.94	29.25
					1	Mid	23.49	27.67
				16QAM	1	High	23.37	28.09
					36	Low	22.84	29.21
				-	36	High	22.40	28.87
					75	Low	22.65	29.83





OUTPUT POWER FOR LTE BAND 2 (20.0MHZ)

OUTPUT			Frequenc		RB Config	nuration	Average	Peak
Band	Band	Channel	y y	Modulation			Power(dBm)	Power(dBm
Dana	Width	On an inci	(MHz)	modulation	RB Size	RB Offset	i olioi(abiii))
					1	Low	23.99	29.04
					1	Mid	23.31	28.77
				0.0017	1	High	23.30	28.04
				QPSK	50	Low	23.55	29.09
					50	High	22.95	29.04
	20.0	40700	4000.0		100	Low	23.13	29.32
	MHz	18700	1860.0		1	Low	23.89	29.16
					1	Mid	23.05	29.13
				16QAM	1	High	23.03	28.04
					50	Low	22.51	29.04
					50	High	22.06	29.20
					100	Low	22.24	29.84
					1	Low	23.94	28.06
					1	Mid	23.36	28.07
				ODCK	1	High	23.50	28.76
				QPSK	50	Low	23.69	27.80
					50	High	23.15	28.81
Band	20.0	40000	4000.0		100	Low	23.34	29.40
2	MHz	18900	1880.0		1	Low	23.98	28.11
					1	Mid	23.52	28.09
				16QAM	1	High	23.63	29.23
					50	Low	22.47	27.65
					50	High	22.25	28.96
					100	Low	22.36	29.22
					1	Low	23.98	29.32
					1	Mid	23.66	28.07
				QPSK	1	High	23.27	28.26
				QF3N	50	Low	23.67	29.46
					50	High	23.20	28.94
	20.0	19100	1900.0		100	Low	23.50	29.52
	MHz	19100	1900.0		1	Low	23.98	29.99
					1	Mid	23.55	28.86
				16QAM	1	High	23.05	29.02
					50	Low	22.70	29.38
					50	High	22.24	28.93
					100	Low	22.48	29.53





4.3 LTE BAND 4

OUTPUT POWER FOR LTE BAND 4 (1.4MHZ)

	Band	Channe	Frequenc		RB Config	guration	Average	Peak
Band	Width	I	y (MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dB m)
			(/		1	Low	23.27	29.47
					1	Mid	23.21	29.48
					1	High	23.26	29.83
				QPSK	3	Low	23.43	30.01
					3	High	23.39	29.92
	4 48 41 1	40057	47407		6	Low	22.73	29.49
	1.4MHz	19957	1710.7		1	Low	22.89	29.62
					1	Mid	22.90	29.68
				16QAM	1	High	22.84	29.53
					3	Low	22.88	29.60
					3	High	22.89	29.92
					6	Low	21.79	29.60
					1	Low	23.36	28.62
					1	Mid	23.37	28.55
				ODCK	1	High	23.39	28.64
				QPSK	3	Low	23.41	29.11
					3	High	23.45	29.22
Band	1.4MHz	20175	4700 E		6	Low	22.68	28.59
4	1.4IVITZ	20175	1732.5		1	Low	22.83	28.42
					1	Mid	22.74	28.24
				16QAM	1	High	22.87	28.62 28.55 28.64 29.11 29.22 28.59 28.42 28.24 28.46 29.28 29.23 28.75
					3	Low	22.75	29.28
					3	High	22.72	29.23
					6	Low	21.76	28.75
					1	Low	23.69	29.33
					1	Mid	23.76	29.13
				QPSK	1	High	23.68	28.96
				QFSK	3	Low	23.75	29.08
					3	High	23.72	29.33
	1.4MHz	20393	1754.3		6	Low	22.85	28.69
	i. 4 iVI∏Z	20393	1734.3		1	Low	22.95	.87 28.46 .75 29.28 .72 29.23 .76 28.75 .69 29.33 .76 29.13 .68 28.96 .75 29.08 .72 29.33 .85 28.69 .95 28.61 .95 28.54 .91 28.46
					1	Mid	22.95	28.54
				16QAM	1	High	22.91	28.46
					3	Low	22.94	29.83
					3	High	22.93	29.54
					6	Low	21.98	28.75





OUTPUT POWER FOR LTE BAND 4 (3.0MHZ)

	Band	Channe	Frequenc		RB Confi	guration	Average	Peak
Band	Width	I	у	Modulation	RB Size	RB Offset	Power(dBm)	Power(dB
	vvidti	'	(MHz)		TO OIZO	TO OHOU		m)
					1	Low	23.51	29.15
					1	Mid	23.48	29.23
				QPSK	1	High	23.45	29.04
				QI SIX	8	Low	22.69	28.97
					8	High	22.74	29.01
	3.0	19965	1711.5		15	Low	22.74	29.24
	MHz	19903	1711.5		1	Low	23.28	29.92
					1	Mid	23.23	30.26
				16QAM	1	High	23.06	29.86
					8	Low	22.05	29.25
					8	High	21.98	29.18
					15	Low	21.85	74 29.24 28 29.92 23 30.26 36 29.86 35 29.25 38 29.18 35 29.37 49 28.63 39 28.64 35 28.50 30 28.87 74 28.83 33 29.31 30 28.34 39 28.31 75 28.36 32 28.38 32 28.15
			Low	23.49	28.63			
					1	Mid	23.39	28.64
				QPSK	1	High	23.35	28.50
				QPSK	8	Low	22.80	28.87
					8	High	22.74	28.83
Band	3.0	20175	1722 F		15	Low	22.63	29.31
4	MHz	20175	1732.5		1	Low	22.80	28.34
					1	Mid	22.69	28.31
				16QAM	1	High	22.75	28.36
					8	Low	21.93	28.38
					8	High	21.92	28.15
					15	Low	21.85	28.86
					1	Low	23.72	29.17
					1	Mid	23.65	29.34
				QPSK	1	High	23.63	29.12
				QFSK	8	Low	22.95	29.18
					8	High	22.89	29.10
	3.0	20205	47E0 E		15	Low	22.94	29.30
	MHz	20385	1753.5		1	Low	23.18	28.15 28.86 29.17 29.34 29.12 29.18 29.10
					1	Mid	23.10	28.47
				16QAM	1	High	23.12	28.42
				TOQAW	8	Low	22.00	28.51
					8	High	22.05	28.59
					15	Low	21.92	29.57





OUTPUT POWER FOR LTE BAND 4 (5.0MHZ)

	Band	Channe	Frequenc		RB Config	guration	Average	Peak
Band	Width	I	у	Modulation	RB Size	RB Offset	Power(dBm)	Power(dB
			(MHz)					
					1	Low	23.75	30.41
					1	Mid	23.53	30.00
				QPSK	1	High	23.54	29.97
				Qi Oit	12	Low	22.75	29.13
					12	High	22.68	29.18
	5.0	19975	1712.5		25	Low	22.75	29.31
	MHz	19975	1712.5		1	Low	22.75	29.32
					1	Mid	22.55	28.82
				16QAM	1	High	22.53	29.12
					12	Low	21.89	29.63
					12	High	21.82	29.59
					25	Low	21.80	29.89
					1	Low	23.50	29.08
					1	Mid	23.43	28.87
				QPSK	1	High	23.38	28.87
				QPSK	12	Low	22.79	28.66
					12	High	22.68	28.43
Band	5.0	20175	4700 F		25	Low	22.74	28.75
4	MHz	20175	1732.5		1	Low	22.86	29.97 29.13 29.18 29.31 29.32 28.82 29.12 29.63 29.59 29.89 29.08 28.87 28.66 28.43 28.75 29.20 28.99 29.10 28.69 29.10 28.69 29.11 29.67 29.28 29.98 29.11 29.67 29.18 28.98 29.57 29.22 29.22 29.22 29.07 28.93
					1	Mid	22.72	
				16QAM	1	High	22.72	29.10
					12	Low	21.80	28.69
					12	High	21.79	28.41
					25	Low	21.81	29.44
					1	Low	23.83	29.36
					1	Mid	23.70	29.08
				ODCK	1	High	23.68	29.11
				QPSK	12	Low	22.91	29.67
					12	High	22.88	29.18
	5.0	20275	4750.5		25	Low	22.87	28.98
	MHz	20375	1752.5		1	Low	23.13	29.57
					1	Mid	23.07	29.22
				16QAM	1	High	22.99	29.22
				16QAM	12	Low	22.16	29.07
					12	High	22.11	28.93
					25	Low	22.03	29.33





OUTPUT POWER FOR LTE BAND 4 (10.0MHZ)

	Band	Channe	Frequenc	_	RB Config	guration	Average	Peak					
Band	Width	I	y (MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dB m)					
			(1711 12)		1	Low	23.89	29.54					
					1	Mid	23.31	28.66					
					1	High	23.42	28.90					
				QPSK	25	Low	22.87						
					25	High	22.66						
	10.0				50	Low	22.78						
	MHz	20000	1715.0		1	Low	23.58						
					1	Mid	23.14						
				16QAM	1	High	23.18						
					25	Low	22.03						
					25	High	21.80	29.48					
					50	Low	21.81	29.98					
					1	Low	Low 23.76 29						
					1	Mid	23.40	28.57					
				ODOK	1	High	23.50	28.72					
				QPSK	25	Low	22.85	29.19					
					25	High	22.76	28.99					
Band	10.0	00475	4700 5		50	Low	22.78	28.75					
4	MHz	20175	1732.5		1	Low	23.13	28.91					
					1	Mid	22.69	29.98 29.15 28.57 28.72 29.19 28.99 28.75 28.91 28.22 28.39 28.87 29.42 29.59 29.15 29.16 29.33 29.14 29.28 28.66 28.34					
				16QAM	1	High	22.87						
					25	Low	21.97	28.97					
					25	High	21.87	28.87					
					50	Low	21.87	29.42					
					1	Low	23.91	29.59					
					1	Mid	23.60	29.15					
				QPSK	1	High	23.71	29.16					
				QI OIX	25	Low	22.98	29.33					
					25	High	22.89	29.14					
	10.0	20350	1750.0		50	Low	22.97	29.28					
	MHz	20000	1700.0		1	Low	23.39	28.39 28.97 28.87 29.42 29.59 29.15 29.16 29.33 29.14 29.28 28.66 28.34 28.57 29.71					
					1	Mid	23.05						
				16QAM	1	High	23.15						
					25	Low	22.12						
					25	High	21.99	29.35					
					50	Low	22.00	29.13					





OUTPUT POWER FOR LTE BAND 4 (15.0MHZ)

	Band	Channe	Frequenc		RB Config	guration	Average	Peak
Band	Width	I	у	Modulation	RB Size	RB Offset	Power(dBm)	Power(dB
	Widti		(MHz)		112 0120	TAD GHOOK		m)
					1	Low	23.80	29.71
					1	Mid	23.37	28.79
				QPSK	1	High	23.49	28.92
				QI OIX	36	Low	23.05	29.63
					36	High	22.75	29.34
	15.0	20025	1717.5		75	Low	22.88	30.00
	MHz	20023	1717.5		1	Low	23.84	30.47
					1	Mid	23.10	29.96
				16QAM	1	High	23.22	29.84
					36	Low	22.02	29.91
					36	High	21.79	29.68
					75	Low	21.89	29.57
					1	Low	23.83	29.21
					1	Mid	23.42	28.38
				QPSK	1	High	23.60	28.69
				QPSK	36	Low	22.91	29.08
					36	High	22.78	28.85
Band	15.0	20175	1722 F		75	Low	22.84	29.43
4	MHz	20175	1732.5		1	Low	23.61	28.69 29.08 28.85 29.43 29.04 28.33 28.41
					1	Mid	23.02	28.33
				16QAM	1	High	23.13	28.41
					36	Low	22.02	29.25
					36	High	21.82	28.88
					75	Low	21.88	29.15
					1	Low	23.94	29.36
					1	Mid	23.61	29.13
				QPSK	1	High	23.71	29.16
				QFSK	36	Low	23.11	29.27
					36	High	22.95	29.32
	15.0	20225	1717 5		75	Low	22.96	29.95
	MHz	20325	1747.5		1	Low	23.59	28.41 29.25 28.88 29.15 29.36 29.13 29.16 29.27 29.32 29.95 28.65 28.32 28.70
					1	Mid	23.09	28.32
				16QAM	1	High	23.17	28.70
				TOQAW	36	Low	22.17	29.64
					36	High	21.91	29.66
					75	Low	22.03	29.53





OUTPUT POWER FOR LTE BAND 4 (20.0MHZ)

	Band	Channe	Frequenc		RB Config	guration	Average	Peak
Band	Width	I	у	Modulation	RB Size	RB Offset	Power(dBm)	Power(dB
			(MHz)					-
					1	Low	23.98	29.98
					1	Mid	23.28	29.10
				QPSK	1	High	23.24	28.86
				Qi Oit	50	Low	22.93	29.61
					50	High	22.59	29.28
	20.0	20050	1720.0		100	Low	22.77	29.58
	MHz	20030	1720.0		1	Low	23.44	29.87
					1	Mid	22.74	29.17
				16QAM	1	High	22.68	28.78
					50	Low	22.04	29.74
					50	High	21.62	29.53
					100	Low	21.86	30.34
					1	Low	24.00	29.68
					1	Mid	23.30	28.66
				ODOK	1	High	23.43	29.00
				QPSK	50	Low	22.98	29.06
					50	High	22.70	28.73
Band	20.0	20475	4700 5		100	Low	22.78	29.22
4	MHz	20175	1732.5		1	Low	23.72	28.86 29.61 29.28 29.58 29.87 29.17 28.78 29.74 29.53 30.34 29.68 28.66 29.00 29.06 28.73 29.22 29.60 28.53 28.93 29.10 28.78 29.10 28.78 29.16 29.01 28.91 28.91 28.91 28.98 29.15 29.39 29.55 29.56 29.73 28.93 29.39
					1	Mid	23.02	28.53
				16QAM	1	High	23.17	28.93
					50	Low	22.03	29.10
					50	High	21.76	28.78
					100	Low	21.91	29.16
					1	Low	23.99	29.01
					1	Mid	23.49	28.91
				ODCIA	1	High	23.71	28.98
				QPSK	50	Low	22.97	29.15
					50	High	22.84	29.39
	20.0	00000	4745.0		100	Low	22.97	29.55
	MHz	20300	1745.0		1	Low	23.53	29.25
					1	Mid	22.88	29.56
				16QAM	1	High	23.07	29.73
					50	Low	22.13	28.93
				_	50	High	21.88	29.39
					100	Low	21.98	29.61





4.4 LTE BAND 13

OUTPUT POWER FOR LTE BAND 13 (5MHZ)

	Band		Frequency		RB Config	guration	Average	Peak	
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)	
					1	Low	23.85	29.82	
					1	Mid	23.99	Power(dBm) 29.82 29.00 30.30 29.01 29.00 29.40 29.24 28.55 29.29 29.35 29.18 29.61 29.25 30.21 30.52 29.09 29.44 28.75 29.12 29.20 29.24 30.11 29.58 29.11 29.76 29.02 29.61 29.08 29.63 29.92 30.08 29.11 29.17 29.15	
				QPSK	1	High	23.98		
				QI SIX	12	Low	23.28		
					12	High	23.30		
	5MHz	23205	779.5		25	Low	23.39		
					1	Low	23.10		
				16QAM	1	Mid High	23.12 23.08		
				IOQAW	12	Low	22.27		
					12	High	22.48		
					25	Low	22.40		
					1	Low	23.94		
					1	Mid	23.98	30.21	
				QPSK	1	High	23.81	30.52	
				QFSN	12	Low	23.27	29.09	
					12	High	23.22	29.44	
	ENALI-	22220	782		25	Low	23.26	29.64	
Band	5MHz	23230	782		1	Low	23.07	28.75	
13					1	Mid	23.07	29.12	
				16QAM	1	High	22.92	29.20	
					12	Low	22.47	Power(dBm) 29.82 29.00 30.30 29.01 29.00 29.40 29.24 28.55 29.29 29.35 29.18 29.61 29.25 30.21 30.52 29.09 29.44 29.64 28.75 29.12 29.20 29.24 30.11 29.58 29.91 29.76 29.92 29.61 29.98 29.63 29.92 30.08 29.11 29.17	
					12	High	22.32	30.11	
					25	Low	22.41	29.58	
					1	Low	24.00	29.91	
					1	Mid	23.94	29.76	
				QPSK	1	High	23.79	29.02	
				QI SIX	12	Low	23.40	29.61	
					12	High	23.23	29.08	
	5MHz	23255	784.5		25	Low	23.25		
	OIVII IZ	20200	7.54.5		1	Low	23.36		
					1	Mid	23.30		
				16QAM	1	High	23.19		
				10Q/IVI	12	Low	22.28		
					12	High	22.27		
				25	Low	22.25	29.80		





OUTPUT POWER FOR LTE BAND 13 (10MHZ)

Devil	Band	01	Frequency	Maria de Cara	RB Config	guration	Average	Peak
Band	Width	Channel	(MHz)	Modulation	RB Size	RB Offset	Power(dBm)	Power(dBm)
					1	Low	23.79	29.09
					1	Mid	23.86	29.05
				QPSK	1	High	23.44	28.62
				QPSK	25	Low	23.37	29.45
					25	High	23.34	29.74
Band	10 MHz	23230	782		50	Low	23.44	29.59
13	10 IVITZ	23230	102		1	Low	23.59	29.74
					1	Mid	23.60	30.06
				16QAM	1	High	23.15	29.11
					25	Low	22.41	29.44
					25	High	22.39	30.01
					50	Low	22.41	29.55





5. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

MODES TESTED

☐LTE Band 2 LTE Band 4 LTE Band 13

RESULTS

PASS





Test results:

Band	Mode	RB Size/RB Offset	Frequency (MHz)	99% Occupied Bandwidth (MHz)	-26dBc Occupied Bandwidth (MHz)
	1.4MHz BAND QPSK	6/0	1880.0	1.09	1.29
	1.4MHz BAND 16QAM	6/0	1880.0	1.09	1.30
	3.0MHz BAND QPSK	15/0	1880.0	2.69	2.92
	3.0MHz BAND 16QAM	15/0	1880.0	2.69	2.93
	5.0MHz BAND QPSK	25/0	1880.0	4.49	4.86
LTE Band	5.0MHz BAND 16QAM	25/0	1880.0	4.48	4.81
2	10.0MHz BAND QPSK	50/0	1880.0	8.98	9.58
	10.0MHz BAND 16QAM	50/0	1880.0	8.97	9.56
	15.0MHz BAND QPSK	75/0	1880.0	13.48	14.30
	15.0MHz BAND 16QAM	75/0	1880.0	13.48	14.28
	20.0MHz BAND QPSK	100/0	1880.0	18.01	19.06
	20.0MHz BAND 16QAM	100/0	1880.0	18.01	19.07

Band	Mode	RB Size/RB Offset	Frequency (MHz)	99% Occupied Bandwidth (MHz)	-26dBc Occupied Bandwidth (MHz)
	1.4MHz BAND QPSK	6/0	1732.5	1.09	1.33
	1.4MHz BAND 16QAM	6/0	1732.5	1.09	1.33
	3.0MHz BAND QPSK	15/0	1732.5	2.69	2.94
	3.0MHz BAND 16QAM	15/0	1732.5	2.69	2.95
	5.0MHz BAND QPSK	25/0	1732.5	4.49	4.86
LTE Band	5.0MHz BAND 16QAM	25/0	1732.5	4.48	4.81
4	10.0MHz BAND QPSK	50/0	1732.5	8.96	9.55
	10.0MHz BAND 16QAM	50/0	1732.5	8.96	9.53
	15.0MHz BAND QPSK	75/0	1732.5	13.43	14.27
	15.0MHz BAND 16QAM	75/0	1732.5	13.42	14.26
	20.0MHz BAND QPSK	100/0	1732.5	17.90	19.02
	20.0MHz BAND 16QAM	100/0	1732.5	17.89	19.02





Band	Mode	RB Size/RB Offset	Frequency (MHz)	99% Occupied Bandwidth (MHz)	-26dBc Occupied Bandwidth (MHz)
	5.0MHz BAND QPSK	25/0	782.0	4.49	4.87
LTE Band	5.0MHz BAND 16QAM	25/0	782.0	4.50	4.85
13	10.0MHz BAND QPSK	50/0	782.0	8.97	9.52
	10.0MHz BAND 16QAM	50/0	782.0	8.97	9.51

Note: This test was only measured at maximum RB allocation and at CENTER of band for each LTE BW

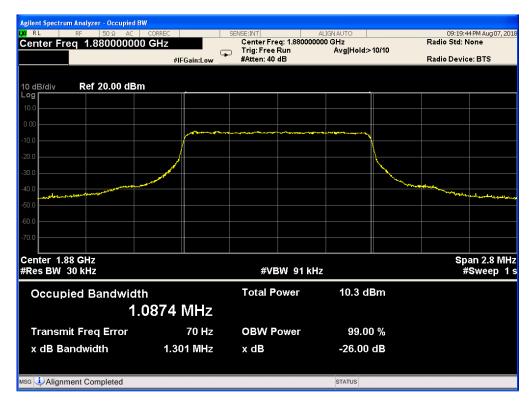


5.1 LTE BAND 2

Band 2,UL Channel 18900,UL Frequency 1880.0,EW 1.4,NO. RB 6,RB POS. Low,QPSK



Band 2,UL Channel 18900,UL Frequency 1880.0,BW 1.4,NO. RB 6,RB POS. Low,16-QAM

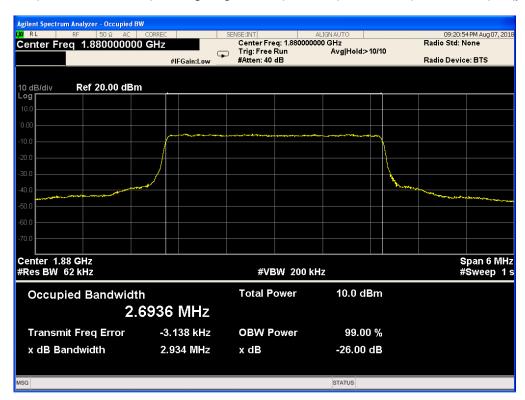




Band 2,UL Channel 18900,UL Frequency 1880.0,BW 3.0,NO. RB 15,RB POS. Low,QPSK

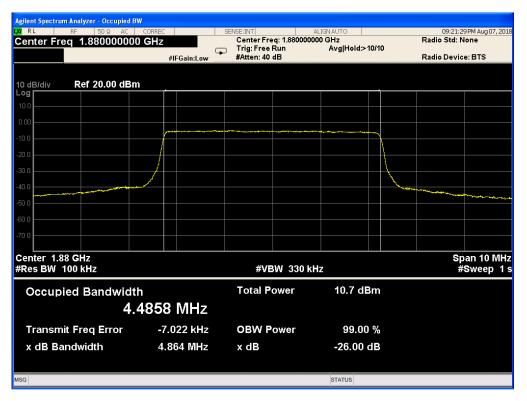


Band 2,UL Channel 18900,UL Frequency 1880.0,BW 3.0,NO. RB 15,RB POS. Low,16-QAM

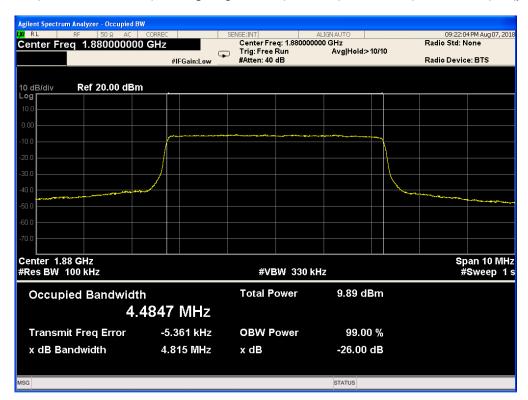




Band 2,UL Channel 18900,UL Frequency 1880.0,BW 5.0,NO. RB 25,RB POS. Low,QPSK



Band 2,UL Channel 18900,UL Frequency 1880.0,BW 5.0,NO. RB 25,RB POS. Low,16-QAM







Band 2,UL Channel 18900,UL Frequency 1880.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK

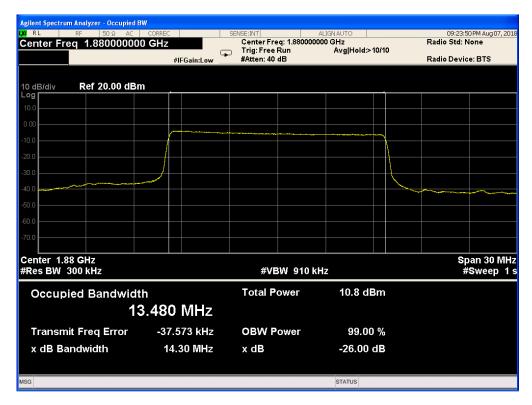


Band 2,UL Channel 18900,UL Frequency 1880.0,EW 10.0,NO. RB 50,RB POS. Low,16-QAM

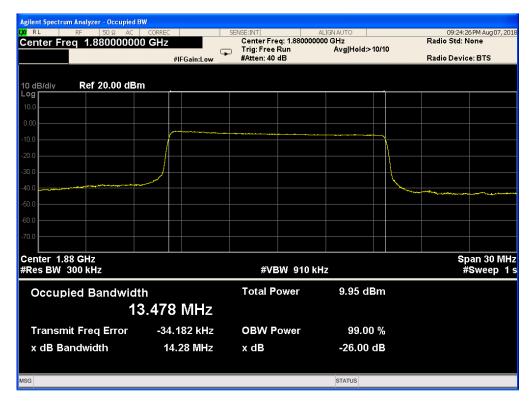




Band 2,UL Channel 18900,UL Frequency 1880.0,BW 15.0,NO. RB 75,RB POS. Low,QPSK

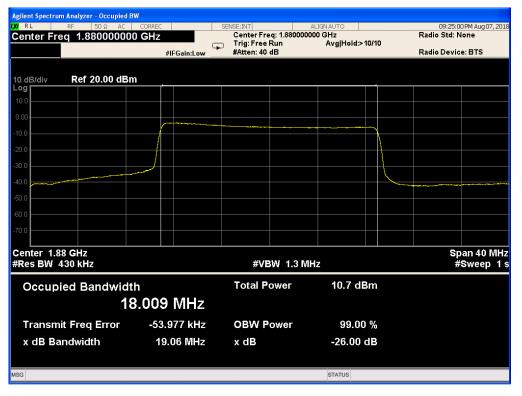


Band 2,UL Channel 18900,UL Frequency 1880.0,BW 15.0,NO. RB 75,RB POS. Low,16-QAM





Band 2,UL Channel 18900,UL Frequency 1880.0,EW 20.0,NO. RB 100,RB POS. Low,QPSK



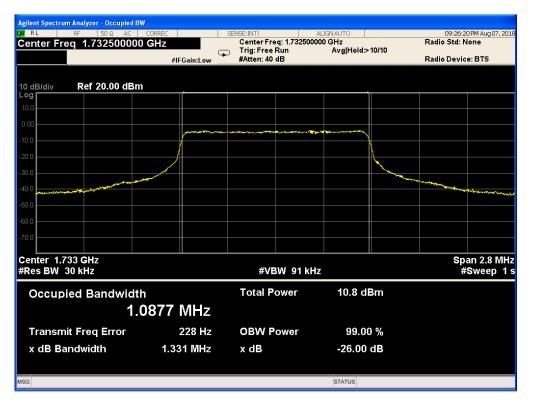
Band 2,UL Channel 18900,UL Frequency 1880.0,BW 20.0,NO. RB 100,RB POS. Low,16-QAM



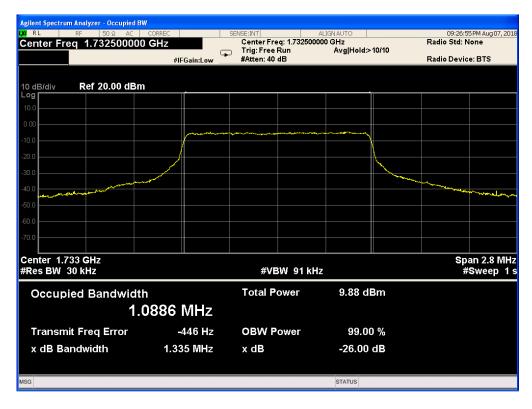


5.2 LTE BAND 4

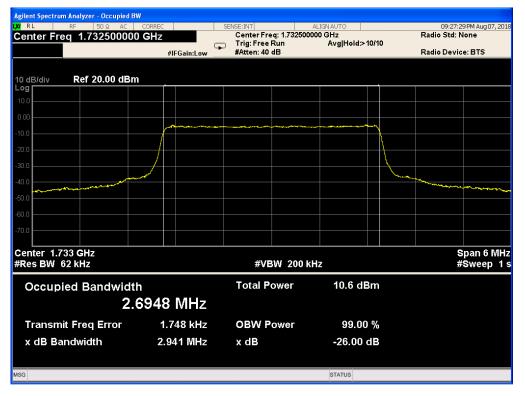
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 1.4,NO. RB 6,RB POS. Low,QPSK



Band 4,UL Channel 20175,UL Frequency 1732.5,BW 1.4,NO. RB 6,RB POS. Low,16-QAM



Band 4,UL Channel 20175,UL Frequency 1732.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

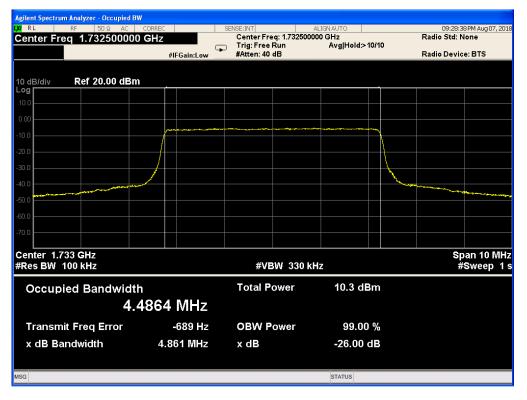


Band 4,UL Channel 20175,UL Frequency 1732.5,BW 3.0,NO. RB 15,RB POS. Low,16-QAM

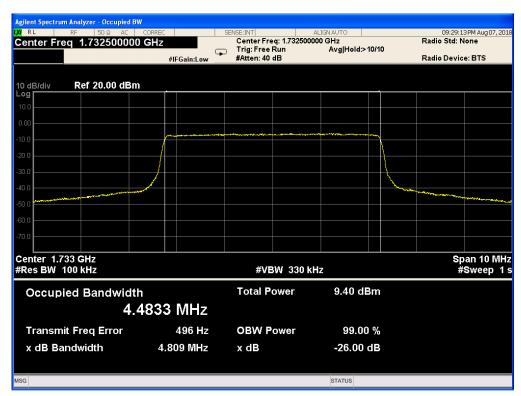


NTEK

Band 4,UL Channel 20175,UL Frequency 1732.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



Band 4,UL Channel 20175,UL Frequency 1732.5,BW 5.0,NO. RB 25,RB POS. Low,16-QAM





Band 4,UL Channel 20175,UL Frequency 1732.5,BW 10.0,NO. RB 50,RB POS. Low,QPSK

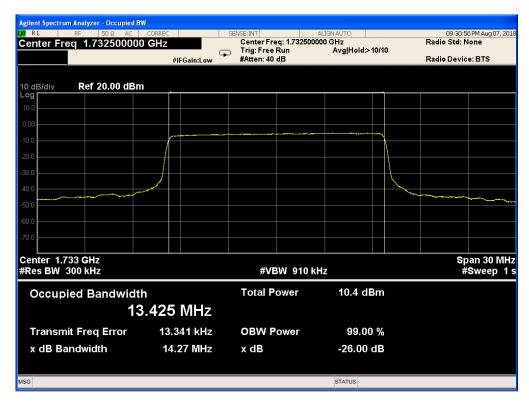


Band 4,UL Channel 20175,UL Frequency 1732.5,BW 10.0,NO. RB 50,RB POS. Low,16-QAM

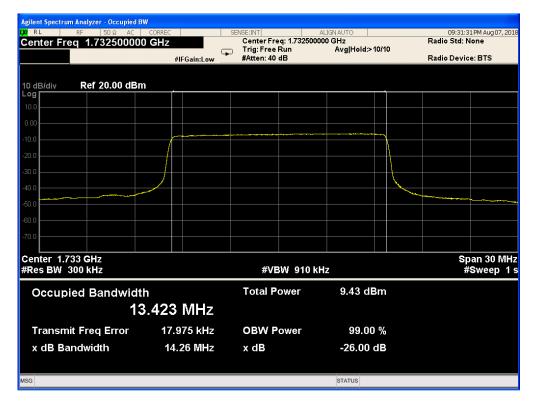




Band 4,UL Channel 20175,UL Frequency 1732.5,BW 15.0,NO. RB 75,RB POS. Low,QPSK

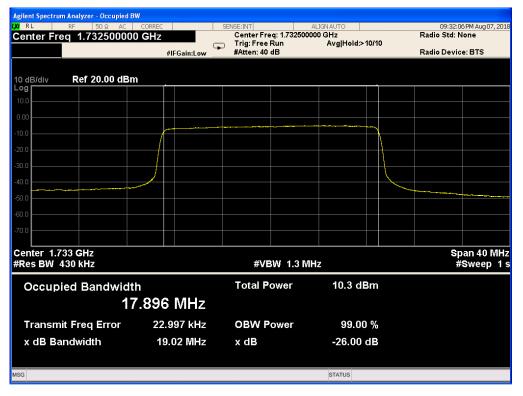


Band 4,UL Channel 20175,UL Frequency 1732.5,BW 15.0,NO. RB 75,RB POS. Low,16-QAM

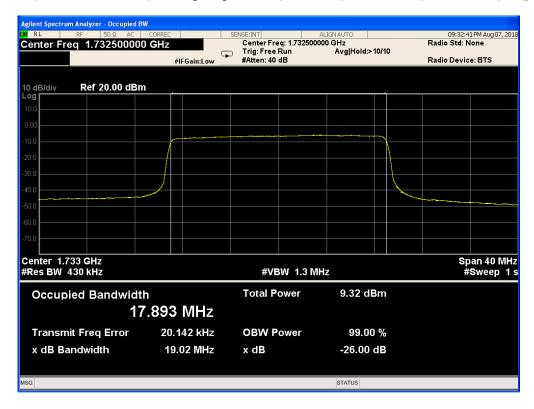




Band 4,UL Channel 20175,UL Frequency 1732.5,BW 20.0,NO. RB 100,RB POS. Low,QPSK



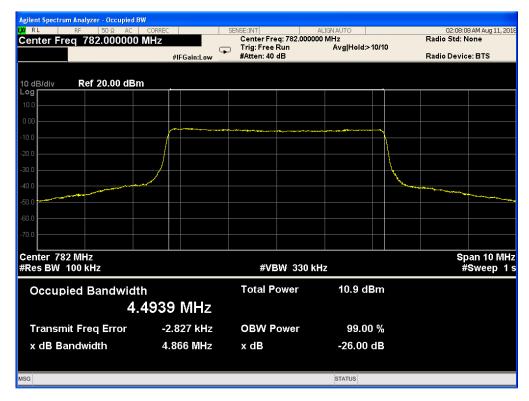
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 20.0,NO. RB 100,RB POS. Low,16-QAM



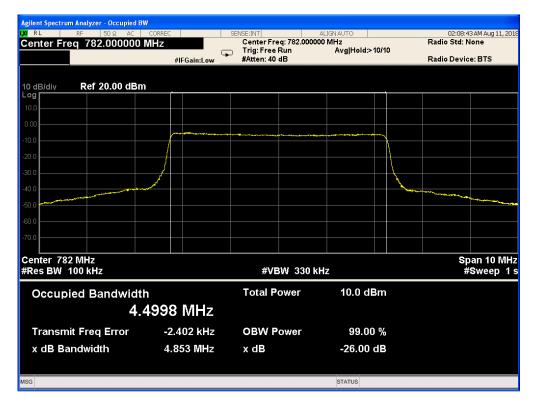


5.4 LTE BAND 13

Band 13,UL Channel 23230,UL Frequency 782.0,BW 5.0,NO. RB 25,RB POS. Low,QPSK

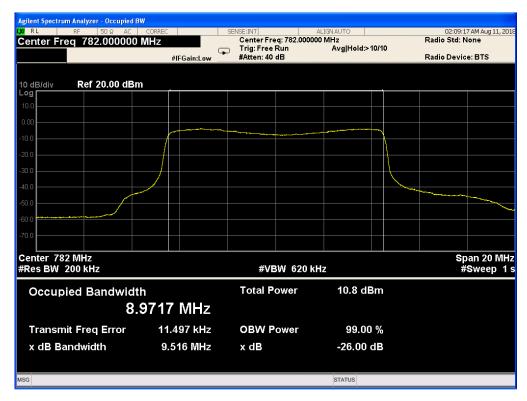


Band 13,UL Channel 23230,UL Frequency 782.0,BW 5.0,NO. RB 25,RB POS. Low,16-QAM





Band 13,UL Channel 23230,UL Frequency 782.0,BW 10.0,NO. RB 50,RB POS. Low,QPSK



Band 13,UL Channel 23230,UL Frequency 782.0,EW 10.0,NO. RB 50,RB POS. Low,16-QAM







6. BANDEDGE AND EMISSION MASK

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, and §90.691

FCC: §22.359

LIMITS

FCC: §22.359, §24.238,

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Show citation box.

TEST PROCEDURE

The transmitter output was connected to a CMW500Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

Set the spectrum analyzer span to include the block edge frequency (704, 716, 824, 849, 1710 and 1755, 1850 and 1910MHz)

Set a marker to point the corresponding band edge frequency in each test case.

Set display line at -13 dBm

Set resolution bandwidth to at least 1% of emission bandwidth.

MODES TESTED

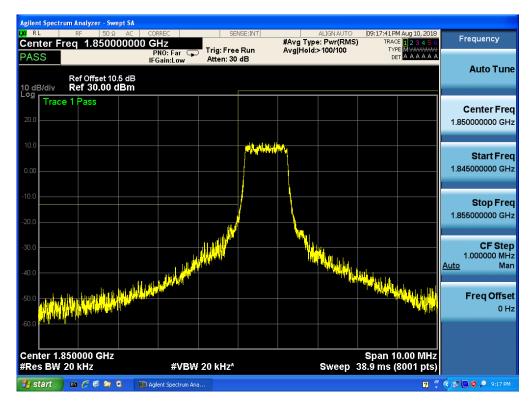
LTE Band 2
LTE Band 4
LTE Band 13

RESULTS

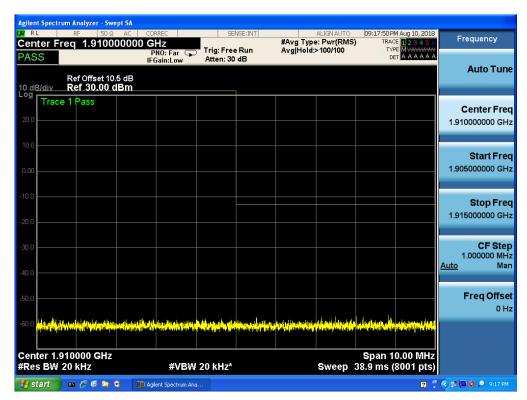


6.1 LTE BAND 2

Band 2,UL Channel 18607,UL Frequency 1850.7,EW 1.4,NO. RB 6,RB POS. Low,QPSK



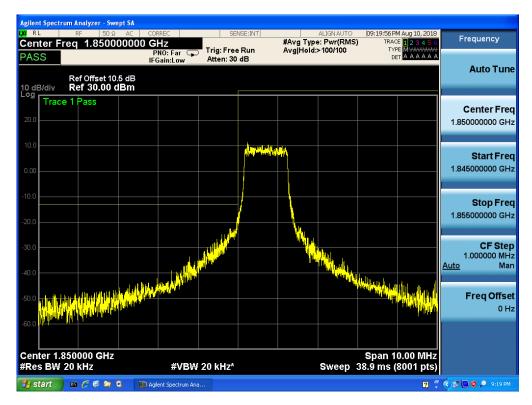
Band 2,UL Channel 18607,UL Frequency 1850.7,BW 1.4,NO. RB 6,RB POS. Low,QPSK



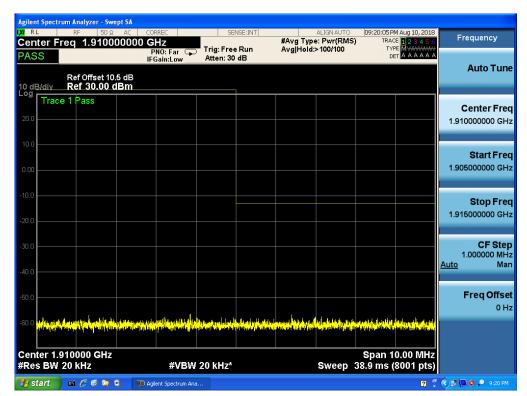




Band 2,UL Channel 18607,UL Frequency 1850.7,BW 1.4,NO. RB 6,RB POS. Low,16QAM

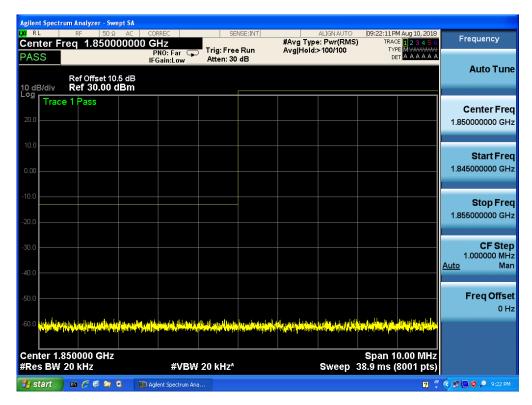


Band 2,UL Channel 18607,UL Frequency 1850.7,BW 1.4,NO. RB 6,RB POS. Low,16QAM

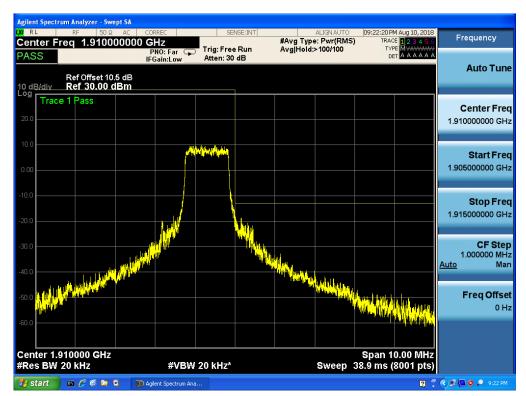




Band 2,UL Channel 19193,UL Frequency 1909.3,EW 1.4,NO. RB 6,RB POS. Low,QPSK



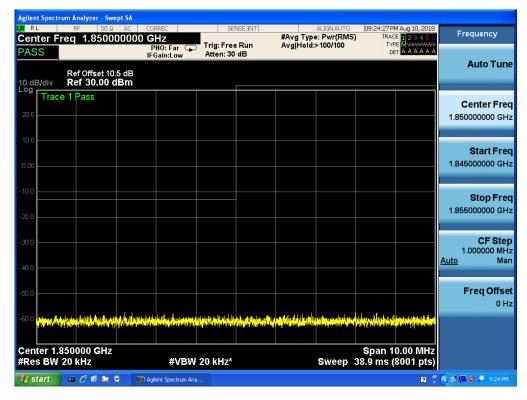
Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,QPSK



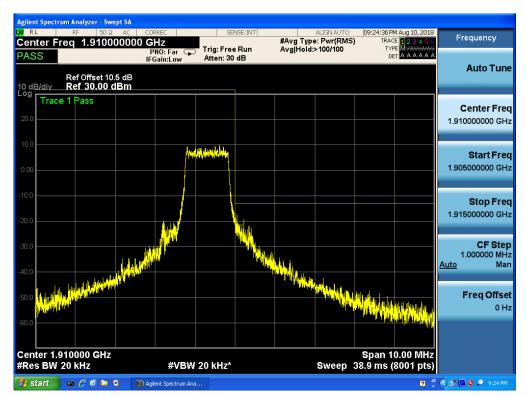




Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,16QAM



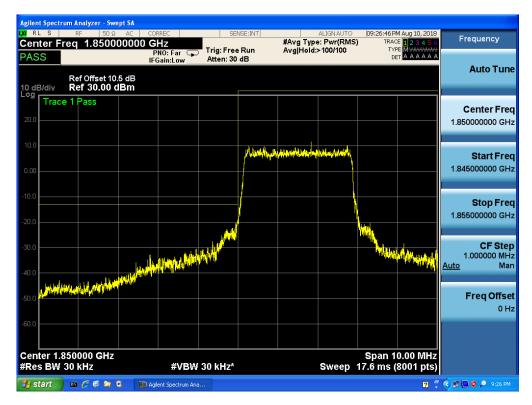
Band 2,UL Channel 19193,UL Frequency 1909.3,BW 1.4,NO. RB 6,RB POS. Low,16QAM







Band 2,UL Channel 18615,UL Frequency 1851.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



Band 2,UL Channel 18615,UL Frequency 1851.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK

