

RF Test Report

Project Number: 4724254 **Proposal:** SUW-202101000320
Report Number: 4724254EMC16 **Revision Level:** 0
Client: Deere & Company

Equipment Under Test: JDLINK R Modem - 4G

Model Number: MA4R

FCC ID: OV5-MA4R

IC ID: 11137A-MA4R

Applicable Standards: ANSI C63.26:2014

Part 2, Part 22(H), Part 24(E), Part 27, Part 90

RSS-130, Issue 2; RSS-132 Issue 3

RSS-133 Issue 6; RSS-139, Issue 3

RSS-199, Issue 3, RSS-GEN, Issue 5

Report issued on: 20 April 2022

Test Result: Compliant



FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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1 Summary of Test Results

Reference Sections		Test Description	Test Condition	Test Result
FCC	ISED			
2.1046	RSS-GEN (6.12)	Conducted Output Power	Conducted	Compliant
22.913(a) 24.232(d) 27.50(d)(5)	RSS-130 (4.6) RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5) RSS-199 (4.4)	Peak-to-Average Ratio		Compliant
2.1049(h) 22.917(a) 24.238(b) 27.53(g) / (h)	RSS-GEN (6.7) RSS-199 (4.2)	Occupied Bandwidth		Reported
2.1051 22.917(a) / (b) 24.238(a) / (b) 27.53(c)(2) 27.53(g) / (h) 27.53(m)(4) 90.691	RSS-130 (4.7) RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6) RSS-199 (4.5)	Band Edge / Conducted Spurious Emissions		Compliant
22.913(a) 27.50(b)(10) 27.50(c)(10) 90.635	--	Effective Radiated Power	Radiated	Compliant
2.1046(a) 24.232(c) 27.50(d)(4) 27.50(h)(2)	RSS-130 (4.6) RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5) RSS-199 (4.4)	Equivalent Isotropically Radiated Power		Compliant
2.1053 22.917(a)(b) 24.238(a)(b) 27.53 27.53(g) / (h) 27.53(m)(4) 90.691	RSS-GEN (6.13) RSS-130 (4.7) RSS-132 (5.5) RSS-133 (6.5.1) RSS-139 (6.6) RSS-199 (4.5)	Radiated Spurious Emissions		Compliant
2.1055 22.355 24.235 27.54 90.213	RSS-GEN (6.11) RSS-130 (4.5) RSS-132 (5.3) RSS-133 (6.3) RSS-139 (6.4) RSS-199 (4.3)	Frequency Stability		Compliant

1.1 Modifications Required to Compliance

None

2 General Information

2.1 Client Information

Name: Deere & Company
Address: One John Deere Place
City, State, Zip, Country: Moline, IL 61265, USA

2.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01
Designation Number: US1126
CAB Identifier: US0186

2.3 General Information of EUT

Product Description: JDLINK R Modem - 4G
Model Number: MA4R
Serial Number: PCMA4MA200091

Modes of Operation: LTE Bands 2/4/5/7/12/13/26a/38/41/66

Antenna Type: External Proprietary
IMEI: 004401083921102

Sample Received Date: 10 April 2021
Dates of testing: 23 February – 30 March 2022

2.4 Description of Test Modes

The EUT was tested under normal operating conditions with a base station simulator directly connect to port C2. The base station simulator was set to control the EUT to output maximum power and operate in LTE Bands 2, 4, 5, 7, 12, 13, 26, 38, 41, and 66 on low, middle, and high channels.

3 RF Output Power / Effective Radiated Power

3.1 Test Result

Test Description	Specification		Test Result
	FCC	ISED	
RF Output Power	2.1046	RSS-GEN (6.12)	Compliant
Effective Radiated Power	22.913(a) 27.50(b)(10) 27.50(c)(10) 90.635	--	Compliant
Effective Isotropic Radiated Power	2.1046(a) 24.232(c) 27.50(d)(4) 27.50(h)(2)	RSS-130 (4.6) RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5) RSS-199 (4.4)	Compliant

3.2 Test Method

A radio link was established between EUT and Radio Communication Tester. The output power of the EUT was set to maximum value by using the maximum power setting on the Radio Communications Tester. The CMW500 was used to measure the output power.

The measurements were conducted at the low, middle, and high channel.

For ERP/EIRP calculations, the antenna gain was added to the conducted measurements.

3.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.2 °C

Relative Humidity: 32.1 %

Atmospheric Pressure: 97.9 kPa

3.4 Test Equipment

Test End Date: 2/24/2022

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
RF CABLE SMA TO SMA, 0.01-40GHZ	084-0505-059	TELEDYNE STORM	20107	16-Mar-2022	16-Mar-2023
POWER SPLITTER	ZFRSC-123-S+	MINI-CIRCUITS	B101739	8-Jul-2021	8-Jul-2022
WIDEBAND RADIO COMMUNICATION	CMW500	ROHDE & SCHWARZ	B094874	13-Jan-2021	13-Jan-2023

3.5 Test Data - LTE Band 2

Max Power: 23.65dBm

Test Band: 2 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.18	23.16	23.3	/	-0.1	23.08	23.06	23.2	33.01	PASS
		2	23.18	23.46	23.46	/	-0.1	23.08	23.36	23.36	33.01	PASS
		5	23.11	23.32	23.65	/	-0.1	23.01	23.22	23.55	33.01	PASS
	3	0	23.11	22.93	23.12	/	-0.1	23.01	22.83	23.02	33.01	PASS
		2	22.97	23.07	23.32	/	-0.1	22.87	22.97	23.22	33.01	PASS
		3	23	23.04	23.24	/	-0.1	22.9	22.94	23.14	33.01	PASS
	6	0	22.09	21.93	22.22	/	-0.1	21.99	21.83	22.12	33.01	PASS
21.92	22.27		22.59	/	-0.1	21.82	22.17	22.49	33.01	PASS		
16QAM	1	2	22.38	22.47	22.55	/	-0.1	22.28	22.37	22.45	33.01	PASS
		5	22.33	22.34	22.38	/	-0.1	22.23	22.24	22.28	33.01	PASS
		3	0	22.31	21.79	22.38	/	-0.1	22.21	21.69	22.28	33.01
	2		22.31	22	22.28	/	-0.1	22.21	21.9	22.18	33.01	PASS
	3		22.04	21.88	22.35	/	-0.1	21.94	21.78	22.25	33.01	PASS
	6	0	21	20.98	21.31	/	-0.1	20.9	20.88	21.21	33.01	PASS
	Note:											
1) dBd = dBi - 2.15												
2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 2_ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.99	23.07	23.15	/	-0.1	22.89	22.97	23.05	33.01	PASS
		7	22.94	23.36	23.38	/	-0.1	22.84	23.26	23.28	33.01	PASS
		14	22.87	23.14	23.19	/	-0.1	22.77	23.04	23.09	33.01	PASS
	8	0	21.96	21.96	22.22	/	-0.1	21.86	21.86	22.12	33.01	PASS
		4	21.87	21.95	22.28	/	-0.1	21.77	21.85	22.18	33.01	PASS
		7	21.87	21.97	22.25	/	-0.1	21.77	21.87	22.15	33.01	PASS
	15	0	21.95	21.97	22.25	/	-0.1	21.85	21.87	22.15	33.01	PASS
22.44	22.28		21.94	/	-0.1	22.34	22.18	21.84	33.01	PASS		
16QAM	1	7	22.24	22.41	22.16	/	-0.1	22.14	22.31	22.06	33.01	PASS
		14	22.13	22.03	22.12	/	-0.1	22.03	21.93	22.02	33.01	PASS
		0	20.92	20.83	20.96	/	-0.1	20.82	20.73	20.86	33.01	PASS
	8	4	20.79	20.97	21.01	/	-0.1	20.69	20.87	20.91	33.01	PASS
		7	20.86	20.99	21	/	-0.1	20.76	20.89	20.9	33.01	PASS
		15	0	21.01	20.79	20.93	/	-0.1	20.91	20.69	20.83	33.01
	Note:											
1) dBd = dBi - 2.15												
2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 2 _ 5MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	22.69	22.62	22.88	/	-0.1	22.59	22.52	22.78	33.01	PASS	
		13	22.95	23.03	23.04	/	-0.1	22.85	22.93	22.94	33.01	PASS	
		24	22.87	23.03	22.91	/	-0.1	22.77	22.93	22.81	33.01	PASS	
	12	0	21.96	21.94	22.09	/	-0.1	21.86	21.84	21.99	33.01	PASS	
		6	21.92	22.06	22.17	/	-0.1	21.82	21.96	22.07	33.01	PASS	
		13	21.88	22.02	22.2	/	-0.1	21.78	21.92	22.1	33.01	PASS	
	25	0	21.97	21.94	22.28	/	-0.1	21.87	21.84	22.18	33.01	PASS	
			21.74	22.53	21.91	/	-0.1	21.64	22.43	21.81	33.01	PASS	
16QAM	1	13	21.67	22.58	22.15	/	-0.1	21.57	22.48	22.05	33.01	PASS	
		24	21.56	22.44	22	/	-0.1	21.46	22.34	21.9	33.01	PASS	
		0	20.96	20.85	20.93	/	-0.1	20.86	20.75	20.83	33.01	PASS	
	12	6	20.91	20.87	21.04	/	-0.1	20.81	20.77	20.94	33.01	PASS	
		13	20.87	20.95	21.11	/	-0.1	20.77	20.85	21.01	33.01	PASS	
		25	0	21.09	21.04	21.1	/	-0.1	20.99	20.94	21	33.01	PASS
	Note:												23.04
	1) dBd = dBi - 2.15												
2) EIRP = Conducted output power + Antenna gain (dBi)													

23.04

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 2 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.07	22.91	23.14	/	-0.1	22.97	22.81	23.04	33.01	PASS
		25	23.34	23.27	23.48	/	-0.1	23.24	23.17	23.38	33.01	PASS
		49	22.69	22.84	23.16	/	-0.1	22.59	22.74	23.06	33.01	PASS
	25	0	22.07	22.01	22.05	/	-0.1	21.97	21.91	21.95	33.01	PASS
		13	22.05	22.11	22.15	/	-0.1	21.95	22.01	22.05	33.01	PASS
		25	21.94	22.08	22.23	/	-0.1	21.84	21.98	22.13	33.01	PASS
	50	0	21.95	22.01	22.24	/	-0.1	21.85	21.91	22.14	33.01	PASS
22.1	22.28		21.98	/	-0.1	22	22.18	21.88	33.01	PASS		
16QAM	1	25	22.29	22.99	22.07	/	-0.1	22.19	22.89	21.97	33.01	PASS
		49	21.86	22.31	21.71	/	-0.1	21.76	22.21	21.61	33.01	PASS
		0	21.12	20.79	21.06	/	-0.1	21.02	20.69	20.96	33.01	PASS
	25	13	21.09	21.03	20.95	/	-0.1	20.99	20.93	20.85	33.01	PASS
		25	20.97	21.01	21.14	/	-0.1	20.87	20.91	21.04	33.01	PASS
		50	0	20.78	20.92	21.11	/	-0.1	20.68	20.82	21.01	33.01
	Note:											
1) dBd = dBi - 2.15												
2) EIRP = Conducted output power + Antenna gain (dBi)												

23.48

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 2 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23	22.82	23.19	/	-0.1	22.9	22.72	23.09	33.01	PASS
		38	23.14	23.1	23.07	/	-0.1	23.04	23	22.97	33.01	PASS
		74	22.79	23	23.15	/	-0.1	22.69	22.9	23.05	33.01	PASS
	36	0	21.95	21.93	22.19	/	-0.1	21.85	21.83	22.09	33.01	PASS
		18	22.01	22.01	22.07	/	-0.1	21.91	21.91	21.97	33.01	PASS
		39	21.79	22.02	22.05	/	-0.1	21.69	21.92	21.95	33.01	PASS
16QAM	1	0	21.92	22	22.12	/	-0.1	21.82	21.9	22.02	33.01	PASS
		38	21.71	22.17	22.22	/	-0.1	21.61	22.07	22.12	33.01	PASS
		74	21.91	22.91	22.65	/	-0.1	21.81	22.81	22.55	33.01	PASS
	36	0	20.5	22.22	22.06	/	-0.1	20.4	22.12	21.96	33.01	PASS
		18	20.92	20.86	20.99	/	-0.1	20.82	20.76	20.89	33.01	PASS
		39	20.97	20.93	21	/	-0.1	20.87	20.83	20.9	33.01	PASS
16QAM	75	0	20.63	20.97	21.06	/	-0.1	20.53	20.87	20.96	33.01	PASS
		18	20.74	20.87	21.15	/	-0.1	20.64	20.77	21.05	33.01	PASS
		39	20.74	20.87	21.15	/	-0.1	20.64	20.77	21.05	33.01	PASS
	75	0	20.74	20.87	21.15	/	-0.1	20.64	20.77	21.05	33.01	PASS
		18	20.74	20.87	21.15	/	-0.1	20.64	20.77	21.05	33.01	PASS
		39	20.74	20.87	21.15	/	-0.1	20.64	20.77	21.05	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.19

Test Band: 2 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.82	23	22.87	/	-0.1	22.72	22.9	22.77	33.01	PASS
		50	23.22	23.27	23.42	/	-0.1	23.12	23.17	23.32	33.01	PASS
		99	22.66	23.1	23.05	/	-0.1	22.56	23	22.95	33.01	PASS
	50	0	21.99	21.99	22.2	/	-0.1	21.89	21.89	22.1	33.01	PASS
		25	21.83	22.09	22.23	/	-0.1	21.73	21.99	22.13	33.01	PASS
		50	21.82	22.05	22.21	/	-0.1	21.72	21.95	22.11	33.01	PASS
16QAM	100	0	22	21.99	22.2	/	-0.1	21.9	21.89	22.1	33.01	PASS
		25	21.66	21.62	22.79	/	-0.1	21.56	21.52	22.69	33.01	PASS
		50	22.72	21.88	22.96	/	-0.1	22.62	21.78	22.86	33.01	PASS
	1	0	22.38	21.66	22.94	/	-0.1	22.28	21.56	22.84	33.01	PASS
		50	20.78	20.88	21.31	/	-0.1	20.68	20.78	21.21	33.01	PASS
		99	20.81	21.09	21.23	/	-0.1	20.71	20.99	21.13	33.01	PASS
16QAM	50	0	20.75	21.06	21.17	/	-0.1	20.65	20.96	21.07	33.01	PASS
		25	20.75	21.06	21.17	/	-0.1	20.65	20.96	21.07	33.01	PASS
		50	20.75	21.06	21.17	/	-0.1	20.65	20.96	21.07	33.01	PASS
	100	0	20.92	21.03	21.1	/	-0.1	20.82	20.93	21	33.01	PASS
		25	20.92	21.03	21.1	/	-0.1	20.82	20.93	21	33.01	PASS
		50	20.92	21.03	21.1	/	-0.1	20.82	20.93	21	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.42

3.6 Test Data - LTE Band 4

Max Power: 23.57dBm

Test Band: 4 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.1	23	23.42	/	0.7	23.8	23.7	24.12	30	PASS
		2	23.04	23.16	23.57	/	0.7	23.74	23.86	24.27	30	PASS
		5	23.07	23.06	23.34	/	0.7	23.77	23.76	24.04	30	PASS
	3	0	22.98	22.94	23.1	/	0.7	23.68	23.64	23.8	30	PASS
		2	23.03	22.96	23.16	/	0.7	23.73	23.66	23.86	30	PASS
		3	22.98	22.91	23.21	/	0.7	23.68	23.61	23.91	30	PASS
	6	0	22.09	22.12	22.08	/	0.7	22.79	22.82	22.78	30	PASS
		2	22.32	22.07	22.79	/	0.7	23.02	22.77	23.49	30	PASS
		5	22.47	22.62	22.9	/	0.7	23.17	23.32	23.6	30	PASS
16QAM	1	2	22.54	22.17	22.83	/	0.7	23.24	22.87	23.53	30	PASS
		0	22.19	21.82	22.11	/	0.7	22.89	22.52	22.81	30	PASS
		2	22.24	21.88	22.15	/	0.7	22.94	22.58	22.85	30	PASS
	3	3	22.19	21.84	22.09	/	0.7	22.89	22.54	22.79	30	PASS
		0	21	20.81	21.09	/	0.7	21.7	21.51	21.79	30	PASS
		6										
	6	0										
		2										
		5										

23.57

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 4 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.12	22.97	23.2	/	0.7	23.82	23.67	23.9	30	PASS
		7	23.43	23.18	23.36	/	0.7	24.13	23.88	24.06	30	PASS
		14	23.33	23.17	23.34	/	0.7	24.03	23.87	24.04	30	PASS
	8	0	22.16	22.02	22.16	/	0.7	22.86	22.72	22.86	30	PASS
		4	22.16	22.07	22.19	/	0.7	22.86	22.77	22.89	30	PASS
		7	22.12	22.03	22.15	/	0.7	22.82	22.73	22.85	30	PASS
	15	0	22.12	22.09	22.17	/	0.7	22.82	22.79	22.87	30	PASS
		7	22.38	22.2	21.78	/	0.7	23.08	22.9	22.48	30	PASS
		14	22.44	22.27	22.06	/	0.7	23.14	22.97	22.76	30	PASS
16QAM	1	0	22.32	22.18	21.94	/	0.7	23.02	22.88	22.64	30	PASS
		7	21.07	20.93	20.9	/	0.7	21.77	21.63	21.6	30	PASS
		14	21.08	20.98	20.93	/	0.7	21.78	21.68	21.63	30	PASS
	8	4	21.01	20.94	20.89	/	0.7	21.71	21.64	21.59	30	PASS
		7	21.01	20.94	20.89	/	0.7	21.71	21.64	21.59	30	PASS
		15	21.24	21.02	21.02	/	0.7	21.94	21.72	21.72	30	PASS
	15	0										
		7										
		14										

23.43

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 4 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.13	22.95	23.01	/	0.7	23.83	23.65	23.71	30	PASS
		13	23.18	22.99	23.16	/	0.7	23.88	23.69	23.86	30	PASS
		24	23.05	22.91	23.14	/	0.7	23.75	23.61	23.84	30	PASS
	12	0	22.06	21.95	22.22	/	0.7	22.76	22.65	22.92	30	PASS
		6	22.05	22.1	22.22	/	0.7	22.75	22.8	22.92	30	PASS
		13	21.98	22.15	22.29	/	0.7	22.68	22.85	22.99	30	PASS
16QAM	25	0	22.11	22.07	22.31	/	0.7	22.81	22.77	23.01	30	PASS
			21.97	22.22	21.93	/	0.7	22.67	22.92	22.63	30	PASS
			22.09	22.32	22.08	/	0.7	22.79	23.02	22.78	30	PASS
	1	13	22.09	22.32	22.08	/	0.7	22.79	23.02	22.78	30	PASS
		24	22.1	22.59	21.96	/	0.7	22.8	23.29	22.66	30	PASS
		0	21.33	20.75	21.13	/	0.7	22.03	21.45	21.83	30	PASS
	12	6	21.37	20.8	21.14	/	0.7	22.07	21.5	21.84	30	PASS
		13	21.18	20.88	21.18	/	0.7	21.88	21.58	21.88	30	PASS
	25	0	21.15	20.84	21.16	/	0.7	21.85	21.54	21.86	30	PASS

Note: 23.18

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 4 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.12	22.8	23.08	/	0.7	23.82	23.5	23.78	30	PASS
		25	23.55	23.24	23.41	/	0.7	24.25	23.94	24.11	30	PASS
		49	23.06	23.04	22.98	/	0.7	23.76	23.74	23.68	30	PASS
	25	0	22.14	21.99	22.11	/	0.7	22.84	22.69	22.81	30	PASS
		13	22.11	22.04	22.24	/	0.7	22.81	22.74	22.94	30	PASS
		25	22.07	22.09	22.21	/	0.7	22.77	22.79	22.91	30	PASS
16QAM	50	0	22.1	22.02	22.2	/	0.7	22.8	22.72	22.9	30	PASS
			22.51	22.26	21.94	/	0.7	23.21	22.96	22.64	30	PASS
			23.22	23.04	22.79	/	0.7	23.92	23.74	23.49	30	PASS
	1	25	23.22	23.04	22.79	/	0.7	23.92	23.74	23.49	30	PASS
		49	22.22	22.33	21.7	/	0.7	22.92	23.03	22.4	30	PASS
	25	0	21.2	21.02	21.05	/	0.7	21.9	21.72	21.75	30	PASS
		13	21.15	21.08	21.18	/	0.7	21.85	21.78	21.88	30	PASS
		25	21.09	20.9	21.25	/	0.7	21.79	21.6	21.95	30	PASS
	50	0	21.13	20.99	21.12	/	0.7	21.83	21.69	21.82	30	PASS

Note: 23.55

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 4 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.1	22.88	23.16	/	0.7	23.8	23.58	23.86	30	PASS
		38	23.12	23.32	23.05	/	0.7	23.82	24.02	23.75	30	PASS
		74	22.67	23.15	23.07	/	0.7	23.37	23.85	23.77	30	PASS
	36	0	22.12	21.9	22.26	/	0.7	22.82	22.6	22.96	30	PASS
		18	22.07	21.97	22.13	/	0.7	22.77	22.67	22.83	30	PASS
		39	22	21.97	22.09	/	0.7	22.7	22.67	22.79	30	PASS
16QAM	1	0	22.09	21.9	22.14	/	0.7	22.79	22.6	22.84	30	PASS
			21.93	22.48	21.78	/	0.7	22.63	23.18	22.48	30	PASS
		38	21.96	22.99	22.6	/	0.7	22.66	23.69	23.3	30	PASS
	36	74	21.26	22.21	21.64	/	0.7	21.96	22.91	22.34	30	PASS
		0	21.1	20.89	21.16	/	0.7	21.8	21.59	21.86	30	PASS
		18	21.03	21.02	21.05	/	0.7	21.73	21.72	21.75	30	PASS
		39	20.83	20.9	21.04	/	0.7	21.53	21.6	21.74	30	PASS
	75	0	20.91	20.75	21.15	/	0.7	21.61	21.45	21.85	30	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.32

Test Band: 4_20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.84	22.97	23.1	/	1.7	24.54	24.67	24.8	30	PASS
		50	23.36	23.43	23.42	/	1.7	25.06	25.13	25.12	30	PASS
		99	22.81	23.26	23.25	/	1.7	24.51	24.96	24.95	30	PASS
	50	0	22.07	21.92	22.25	/	1.7	23.77	23.62	23.95	30	PASS
		25	22.13	22.05	22.33	/	1.7	23.83	23.75	24.03	30	PASS
		50	22.02	22.12	22.06	/	1.7	23.72	23.82	23.76	30	PASS
	100	0	22.01	22.03	22.21	/	1.7	23.71	23.73	23.91	30	PASS
22.28	21.75		22.82	/	1.7	23.98	23.45	24.52	30	PASS		
16QAM	1	50	22.87	21.93	23.1	/	1.7	24.57	23.63	24.8	30	PASS
		99	22.25	21.93	22.2	/	1.7	23.95	23.63	23.9	30	PASS
		0	21.09	20.81	21.26	/	1.7	22.79	22.51	22.96	30	PASS
	50	25	21.14	20.96	21.36	/	1.7	22.84	22.66	23.06	30	PASS
		50	20.9	21.03	21.09	/	1.7	22.6	22.73	22.79	30	PASS
		100	0	20.93	20.95	21.24	/	1.7	22.63	22.65	22.94	30

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.43

3.7 Test Data - LTE Band 5

Max Power: 23.79dBm

Test Band: 5 _ 1.4MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.2	23.03	23.09	-2.45	-0.3	20.75	20.58	20.64	40.61	PASS	
		2	23.43	23.05	22.87	-2.45	-0.3	20.98	20.6	20.42	40.61	PASS	
		5	23.2	23.23	22.92	-2.45	-0.3	20.75	20.78	20.47	40.61	PASS	
	3	0	22.96	23.03	23.11	-2.45	-0.3	20.51	20.58	20.66	40.61	PASS	
		2	22.94	23.06	23.05	-2.45	-0.3	20.49	20.61	20.6	40.61	PASS	
		3	22.97	22.97	22.95	-2.45	-0.3	20.52	20.52	20.5	40.61	PASS	
	6	0	22.01	22.05	22.13	-2.45	-0.3	19.56	19.6	19.68	40.61	PASS	
	22.57		21.92	22.24	-2.45	-0.3	20.12	19.47	19.79	40.61	PASS		
	22.63		21.93	22.19	-2.45	-0.3	20.18	19.48	19.74	40.61	PASS		
16QAM	1	5	22.68	21.84	21.88	-2.45	-0.3	20.23	19.39	19.43	40.61	PASS	
		3	0	21.84	21.87	22.11	-2.45	-0.3	19.39	19.42	19.66	40.61	PASS
			2	21.92	21.98	21.89	-2.45	-0.3	19.47	19.53	19.44	40.61	PASS
	3		21.97	21.86	22.12	-2.45	-0.3	19.52	19.41	19.67	40.61	PASS	
	6	0	20.88	20.91	21.11	-2.45	-0.3	18.43	18.46	18.66	40.61	PASS	

Note:
1) dBd = dBi - 2.15
2) EIRP = Conducted output power + Antenna gain (dBi)
3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 5 3MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.12	23.01	23.18	-2.45	-0.3	20.67	20.56	20.73	40.61	PASS	
		7	23.12	23	22.93	-2.45	-0.3	20.67	20.55	20.48	40.61	PASS	
		14	23.04	22.96	22.88	-2.45	-0.3	20.59	20.51	20.43	40.61	PASS	
	8	0	22	22.09	22.17	-2.45	-0.3	19.55	19.64	19.72	40.61	PASS	
		4	22.09	22.05	22.03	-2.45	-0.3	19.64	19.6	19.58	40.61	PASS	
		7	22.1	21.96	21.94	-2.45	-0.3	19.65	19.51	19.49	40.61	PASS	
	15	0	22.03	22.06	22.08	-2.45	-0.3	19.58	19.61	19.63	40.61	PASS	
	22.35		22.31	21.85	-2.45	-0.3	19.9	19.86	19.4	40.61	PASS		
	16QAM	1	7	22.61	22.3	22.03	-2.45	-0.3	20.16	19.85	19.58	40.61	PASS
14			22.72	22.23	21.3	-2.45	-0.3	20.27	19.78	18.85	40.61	PASS	
0			20.97	21.14	21.08	-2.45	-0.3	18.52	18.69	18.63	40.61	PASS	
8		4	21.06	21.1	20.92	-2.45	-0.3	18.61	18.65	18.47	40.61	PASS	
		7	21.01	20.83	20.97	-2.45	-0.3	18.56	18.38	18.52	40.61	PASS	
		15	0	20.91	20.87	20.92	-2.45	-0.3	18.46	18.42	18.47	40.61	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi) 3) ERP = Conducted output power + Antenna gain (dBd)													

Test Band: 5 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.71	22.92	23.07	-2.45	-0.3	20.26	20.47	20.62	40.61	PASS
		13	23.02	22.82	23.19	-2.45	-0.3	20.57	20.37	20.74	40.61	PASS
		24	23.01	22.67	22.84	-2.45	-0.3	20.56	20.22	20.39	40.61	PASS
	12	0	21.97	22.04	22.17	-2.45	-0.3	19.52	19.59	19.72	40.61	PASS
		6	22.15	22.09	22.14	-2.45	-0.3	19.7	19.64	19.69	40.61	PASS
		13	22.09	21.97	21.97	-2.45	-0.3	19.64	19.52	19.52	40.61	PASS
16QAM	1	0	22.01	22.08	22.06	-2.45	-0.3	19.56	19.63	19.61	40.61	PASS
			21.59	22.47	21.83	-2.45	-0.3	19.14	20.02	19.38	40.61	PASS
		13	22.1	22.7	21.92	-2.45	-0.3	19.65	20.25	19.47	40.61	PASS
	12	24	21.95	22.41	21.48	-2.45	-0.3	19.5	19.96	19.03	40.61	PASS
		0	20.93	20.91	21.08	-2.45	-0.3	18.48	18.46	18.63	40.61	PASS
		6	21.12	20.97	21.08	-2.45	-0.3	18.67	18.52	18.63	40.61	PASS
	25	13	21.17	20.87	20.98	-2.45	-0.3	18.72	18.42	18.53	40.61	PASS
		0	21.13	21.02	20.88	-2.45	-0.3	18.68	18.57	18.43	40.61	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 5 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.11	22.97	22.93	-2.45	-0.3	20.66	20.52	20.48	40.61	PASS
		25	23.79	23.25	23.29	-2.45	-0.3	21.34	20.8	20.84	40.61	PASS
		49	23.12	23.04	22.87	-2.45	-0.3	20.67	20.59	20.42	40.61	PASS
	25	0	22	22.18	21.9	-2.45	-0.3	19.55	19.73	19.45	40.61	PASS
		13	22.25	22.05	22.13	-2.45	-0.3	19.8	19.6	19.68	40.61	PASS
		25	22.13	21.96	22.02	-2.45	-0.3	19.68	19.51	19.57	40.61	PASS
16QAM	1	0	22.06	22.15	21.99	-2.45	-0.3	19.61	19.7	19.54	40.61	PASS
			22.23	22.27	21.21	-2.45	-0.3	19.78	19.82	18.76	40.61	PASS
		25	22.84	22.44	22.34	-2.45	-0.3	20.39	19.99	19.89	40.61	PASS
	25	49	22.08	22.39	21.44	-2.45	-0.3	19.63	19.94	18.99	40.61	PASS
		0	20.9	20.97	20.84	-2.45	-0.3	18.45	18.52	18.39	40.61	PASS
		13	21.08	20.98	21.02	-2.45	-0.3	18.63	18.53	18.57	40.61	PASS
	50	25	21.07	20.79	21.01	-2.45	-0.3	18.62	18.34	18.56	40.61	PASS
		0	21	20.93	20.93	-2.45	-0.3	18.55	18.48	18.48	40.61	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3) ERP = Conducted output power + Antenna gain (dBd)

3.8 Test Data - LTE Band 7

Max Power: 23.03dBm

Test Band: 7 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.4	22.24	22.22	/	2.4	24.8	24.64	24.62	33.01	PASS
		13	22.45	22.53	22.33	/	2.4	24.85	24.93	24.73	33.01	PASS
		24	22.45	22.44	22.43	/	2.4	24.85	24.84	24.83	33.01	PASS
	12	0	21.59	21.68	21.59	/	2.4	23.99	24.08	23.99	33.01	PASS
		6	21.7	21.76	21.64	/	2.4	24.1	24.16	24.04	33.01	PASS
		13	21.64	21.7	21.55	/	2.4	24.04	24.1	23.95	33.01	PASS
	25	0	21.64	21.69	21.56	/	2.4	24.04	24.09	23.96	33.01	PASS
			21.52	21.73	21.05	/	2.4	23.92	24.13	23.45	33.01	PASS
			21.73	22.42	21.37	/	2.4	24.13	24.82	23.77	33.01	PASS
16QAM	1	13	21.39	22.1	20.94	/	2.4	23.79	24.5	23.34	33.01	PASS
			20.72	20.8	20.61	/	2.4	23.12	23.2	23.01	33.01	PASS
			20.85	20.69	20.67	/	2.4	23.25	23.09	23.07	33.01	PASS
	12	13	20.73	20.63	20.57	/	2.4	23.13	23.03	22.97	33.01	PASS
			20.8	20.78	20.55	/	2.4	23.2	23.18	22.95	33.01	PASS
	25											

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 7 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.71	22.59	22.61	/	2.4	25.11	24.99	25.01	33.01	PASS
		25	23.03	22.98	22.74	/	2.4	25.43	25.38	25.14	33.01	PASS
		49	22.56	22.52	22.45	/	2.4	24.96	24.92	24.85	33.01	PASS
	25	0	21.73	21.64	21.69	/	2.4	24.13	24.04	24.09	33.01	PASS
		13	21.73	21.64	21.59	/	2.4	24.13	24.04	23.99	33.01	PASS
		25	21.53	21.64	21.63	/	2.4	23.93	24.04	24.03	33.01	PASS
	50	0	21.67	21.68	21.56	/	2.4	24.07	24.08	23.96	33.01	PASS
			21.84	21.93	21.59	/	2.4	24.24	24.33	23.99	33.01	PASS
			22.02	22.78	21.7	/	2.4	24.42	25.18	24.1	33.01	PASS
16QAM	1	49	21.54	22.21	21	/	2.4	23.94	24.61	23.4	33.01	PASS
			20.93	20.82	20.81	/	2.4	23.33	23.22	23.21	33.01	PASS
			20.73	20.98	20.86	/	2.4	23.13	23.38	23.26	33.01	PASS
	25	25	20.63	20.84	20.68	/	2.4	23.03	23.24	23.08	33.01	PASS
			20.67	20.78	20.58	/	2.4	23.07	23.18	22.98	33.01	PASS
	50											

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 7 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.56	22.58	22.77	/	2.4	24.96	24.98	25.17	33.01	PASS
		38	22.68	22.8	22.51	/	2.4	25.08	25.2	24.91	33.01	PASS
		74	22.53	22.59	22.39	/	2.4	24.93	24.99	24.79	33.01	PASS
	36	0	21.6	21.6	21.6	/	2.4	24	24	24	33.01	PASS
		18	21.68	21.83	21.77	/	2.4	24.08	24.23	24.17	33.01	PASS
		39	21.67	21.61	21.68	/	2.4	24.07	24.01	24.08	33.01	PASS
	75	0	21.76	21.61	21.66	/	2.4	24.16	24.01	24.06	33.01	PASS
16QAM	1	0	21.4	21.85	21.51	/	2.4	23.8	24.25	23.91	33.01	PASS
		38	21.54	22.52	22.21	/	2.4	23.94	24.92	24.61	33.01	PASS
		74	20.78	21.94	21.57	/	2.4	23.18	24.34	23.97	33.01	PASS
	36	0	20.83	20.64	20.72	/	2.4	23.23	23.04	23.12	33.01	PASS
		18	20.81	20.77	20.78	/	2.4	23.21	23.17	23.18	33.01	PASS
		39	20.6	20.65	20.7	/	2.4	23	23.05	23.1	33.01	PASS
	75	0	20.67	20.78	20.69	/	2.4	23.07	23.18	23.09	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 7 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.32	22.69	22.55	/	2.4	24.72	25.09	24.95	33.01	PASS
		50	22.94	22.9	22.89	/	2.4	25.34	25.3	25.29	33.01	PASS
		99	22.29	22.57	22.41	/	2.4	24.69	24.97	24.81	33.01	PASS
	50	0	21.61	21.47	21.61	/	2.4	24.01	23.87	24.01	33.01	PASS
		25	21.81	21.67	21.62	/	2.4	24.21	24.07	24.02	33.01	PASS
		50	21.68	21.51	21.49	/	2.4	24.08	23.91	23.89	33.01	PASS
	100	0	21.71	21.5	21.56	/	2.4	24.11	23.9	23.96	33.01	PASS
16QAM	1	0	21.91	21.28	21.9	/	2.4	24.31	23.68	24.3	33.01	PASS
		50	22.43	21.36	22.6	/	2.4	24.83	23.76	25	33.01	PASS
		99	21.94	20.57	22.11	/	2.4	24.34	22.97	24.51	33.01	PASS
	50	0	20.59	20.61	20.72	/	2.4	22.99	23.01	23.12	33.01	PASS
		25	20.79	20.77	20.76	/	2.4	23.19	23.17	23.16	33.01	PASS
		50	20.67	20.63	20.75	/	2.4	23.07	23.03	23.15	33.01	PASS
	100	0	20.83	20.66	20.68	/	2.4	23.23	23.06	23.08	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3.9 Test Data - LTE Band 12

Max Power: 23.64dBm

Test Band: 12 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.44	22.99	22.79	-2.35	-0.2	21.09	20.64	20.44	34.77	PASS
		2	23.15	22.97	22.84	-2.35	-0.2	20.8	20.62	20.49	34.77	PASS
		5	22.91	22.96	22.76	-2.35	-0.2	20.56	20.61	20.41	34.77	PASS
	3	0	22.92	22.99	22.76	-2.35	-0.2	20.57	20.64	20.41	34.77	PASS
		2	22.98	23.12	22.91	-2.35	-0.2	20.63	20.77	20.56	34.77	PASS
		3	22.85	23	22.82	-2.35	-0.2	20.5	20.65	20.47	34.77	PASS
	6	0	22.04	22	22.01	-2.35	-0.2	19.69	19.65	19.66	34.77	PASS
		2	22.72	22.17	22.08	-2.35	-0.2	20.37	19.82	19.73	34.77	PASS
		5	22.89	22.25	22.07	-2.35	-0.2	20.54	19.9	19.72	34.77	PASS
16QAM	1	0	22.85	22.14	22.18	-2.35	-0.2	20.5	19.79	19.83	34.77	PASS
		2	22.16	21.94	22.06	-2.35	-0.2	19.81	19.59	19.71	34.77	PASS
		5	22.25	21.94	22.06	-2.35	-0.2	19.9	19.59	19.71	34.77	PASS
	3	0	22.07	21.82	22.03	-2.35	-0.2	19.72	19.47	19.68	34.77	PASS
		2	21.17	20.97	20.76	-2.35	-0.2	18.82	18.62	18.41	34.77	PASS
		5										
	6	0										
		2										
		5										

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.44

Test Band: 12 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.22	22.86	23.03	-2.35	-0.2	20.87	20.51	20.68	34.77	PASS
		7	23.23	22.99	23.29	-2.35	-0.2	20.88	20.64	20.94	34.77	PASS
		14	23.07	23.09	22.85	-2.35	-0.2	20.72	20.74	20.5	34.77	PASS
	8	0	22.19	21.96	22.07	-2.35	-0.2	19.84	19.61	19.72	34.77	PASS
		4	22.11	21.99	22.15	-2.35	-0.2	19.76	19.64	19.8	34.77	PASS
		7	22	21.89	21.99	-2.35	-0.2	19.65	19.54	19.64	34.77	PASS
	15	0	22.14	21.98	22.08	-2.35	-0.2	19.79	19.63	19.73	34.77	PASS
		7	22.38	21.51	21.67	-2.35	-0.2	20.03	19.16	19.32	34.77	PASS
		14	22.23	21.93	21.67	-2.35	-0.2	19.88	19.58	19.32	34.77	PASS
16QAM	1	0	20.88	20.89	21.01	-2.35	-0.2	18.53	18.54	18.66	34.77	PASS
		4	20.91	20.9	21.02	-2.35	-0.2	18.56	18.55	18.67	34.77	PASS
		7	20.81	20.92	20.97	-2.35	-0.2	18.46	18.57	18.62	34.77	PASS
	8	0	21.03	20.95	20.79	-2.35	-0.2	18.68	18.6	18.44	34.77	PASS
		4										
		7										
	15	0										
		4										
		7										

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.29

Test Band: 12 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.84	22.64	22.82	-2.35	-0.2	20.49	20.29	20.47	34.77	PASS
		13	22.9	22.86	22.88	-2.35	-0.2	20.55	20.51	20.53	34.77	PASS
		24	22.79	22.56	22.57	-2.35	-0.2	20.44	20.21	20.22	34.77	PASS
	12	0	22.1	21.99	22.03	-2.35	-0.2	19.75	19.64	19.68	34.77	PASS
		6	22.01	22.08	22.07	-2.35	-0.2	19.66	19.73	19.72	34.77	PASS
		13	21.98	22.03	21.98	-2.35	-0.2	19.63	19.68	19.63	34.77	PASS
	25	0	22.15	22.01	22	-2.35	-0.2	19.8	19.66	19.65	34.77	PASS
16QAM	1	0	21.82	22.55	21.55	-2.35	-0.2	19.47	20.2	19.2	34.77	PASS
		13	21.87	22.79	21.57	-2.35	-0.2	19.52	20.44	19.22	34.77	PASS
		24	21.81	22.67	21.23	-2.35	-0.2	19.46	20.32	18.88	34.77	PASS
	12	0	20.88	20.92	20.78	-2.35	-0.2	18.53	18.57	18.43	34.77	PASS
		6	20.84	20.92	20.84	-2.35	-0.2	18.49	18.57	18.49	34.77	PASS
		13	20.69	20.89	20.74	-2.35	-0.2	18.34	18.54	18.39	34.77	PASS
	25	0	20.99	20.83	20.92	-2.35	-0.2	18.64	18.48	18.57	34.77	PASS

Note: 22.9

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 12 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.16	23.11	22.94	-2.35	-0.2	20.81	20.76	20.59	34.77	PASS
		25	23.43	23.64	23.24	-2.35	-0.2	21.08	21.29	20.89	34.77	PASS
		49	22.97	22.9	22.76	-2.35	-0.2	20.62	20.55	20.41	34.77	PASS
	25	0	21.97	22	22.08	-2.35	-0.2	19.62	19.65	19.73	34.77	PASS
		13	22.08	22.03	22.04	-2.35	-0.2	19.73	19.68	19.69	34.77	PASS
		25	21.97	21.91	21.94	-2.35	-0.2	19.62	19.56	19.59	34.77	PASS
	50	0	22.03	21.97	22.07	-2.35	-0.2	19.68	19.62	19.72	34.77	PASS
16QAM	1	0	22.57	22.25	21.8	-2.35	-0.2	20.22	19.9	19.45	34.77	PASS
		25	22.4	22.29	21.97	-2.35	-0.2	20.05	19.94	19.62	34.77	PASS
		49	22.11	22.05	21.3	-2.35	-0.2	19.76	19.7	18.95	34.77	PASS
	25	0	20.94	21.2	20.74	-2.35	-0.2	18.59	18.85	18.39	34.77	PASS
		13	20.95	21.21	20.74	-2.35	-0.2	18.6	18.86	18.39	34.77	PASS
		25	20.93	20.79	20.93	-2.35	-0.2	18.58	18.44	18.58	34.77	PASS
	50	0	20.88	20.9	20.9	-2.35	-0.2	18.53	18.55	18.55	34.77	PASS

Note: 23.64

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3) ERP = Conducted output power + Antenna gain (dBd)

3.10 Test Data - LTE Band 13

Max Power: 23.31dBm

Test Band: 13 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.84	22.8	22.91	-2.35	-0.2	20.49	20.45	20.56	34.77	PASS
		13	23.24	23.07	22.86	-2.35	-0.2	20.89	20.72	20.51	34.77	PASS
		24	23.16	22.96	22.83	-2.35	-0.2	20.81	20.61	20.48	34.77	PASS
	12	0	22.08	22.03	22.11	-2.35	-0.2	19.73	19.68	19.76	34.77	PASS
		6	22.14	22.14	22.16	-2.35	-0.2	19.79	19.79	19.81	34.77	PASS
		13	21.94	22.21	22.01	-2.35	-0.2	19.59	19.86	19.66	34.77	PASS
	25	0	21.95	22.06	22.08	-2.35	-0.2	19.6	19.71	19.73	34.77	PASS
			21.88	21.97	22.04	-2.35	-0.2	19.53	19.62	19.69	34.77	PASS
			21.89	22.98	22.01	-2.35	-0.2	19.54	20.63	19.66	34.77	PASS
16QAM	1	13	22.05	22.69	21.42	-2.35	-0.2	19.7	20.34	19.07	34.77	PASS
			21.09	20.88	20.98	-2.35	-0.2	18.74	18.53	18.63	34.77	PASS
			21.12	20.97	21.04	-2.35	-0.2	18.77	18.62	18.69	34.77	PASS
	12	6	21.12	20.97	21.04	-2.35	-0.2	18.77	18.62	18.69	34.77	PASS
		13	21.13	21.07	20.87	-2.35	-0.2	18.78	18.72	18.52	34.77	PASS
			20.98	20.99	21.08	-2.35	-0.2	18.63	18.64	18.73	34.77	PASS
	25	0	20.98	20.99	21.08	-2.35	-0.2	18.63	18.64	18.73	34.77	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.24

Test Band: 13 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	/	23.19	/	-2.35	-0.2	/	20.84	/	34.77	PASS
		25	/	23.31	/	-2.35	-0.2	/	20.96	/	34.77	PASS
		49	/	22.93	/	-2.35	-0.2	/	20.58	/	34.77	PASS
	25	0	/	22.1	/	-2.35	-0.2	/	19.75	/	34.77	PASS
		13	/	22.11	/	-2.35	-0.2	/	19.76	/	34.77	PASS
		25	/	22.02	/	-2.35	-0.2	/	19.67	/	34.77	PASS
	50	0	/	22.03	/	-2.35	-0.2	/	19.68	/	34.77	PASS
			/	22.07	/	-2.35	-0.2	/	19.72	/	34.77	PASS
			/	22.13	/	-2.35	-0.2	/	19.78	/	34.77	PASS
16QAM	1	49	/	21.4	/	-2.35	-0.2	/	19.05	/	34.77	PASS
			/	20.87	/	-2.35	-0.2	/	18.52	/	34.77	PASS
			/	20.99	/	-2.35	-0.2	/	18.64	/	34.77	PASS
	25	0	/	20.87	/	-2.35	-0.2	/	18.52	/	34.77	PASS
		13	/	20.99	/	-2.35	-0.2	/	18.64	/	34.77	PASS
		25	/	21.01	/	-2.35	-0.2	/	18.66	/	34.77	PASS
	50	0	/	20.8	/	-2.35	-0.2	/	18.45	/	34.77	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3) ERP = Conducted output power + Antenna gain (dBd)

23.31

3.11 Test Data - LTE Band 26a

Max Power: 23.83dBm

Test Band: 26a 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.53	23.14	23.32	-2.45	-0.3	21.08	20.69	20.87	50	PASS
		2	23.81	23.12	23.37	-2.45	-0.3	21.36	20.67	20.92	50	PASS
		5	23.66	23.06	23.3	-2.45	-0.3	21.21	20.61	20.85	50	PASS
	3	0	23.28	23.26	23.28	-2.45	-0.3	20.83	20.81	20.83	50	PASS
		2	23.33	23.16	23.25	-2.45	-0.3	20.88	20.71	20.8	50	PASS
		3	23.33	23.06	23.2	-2.45	-0.3	20.88	20.61	20.75	50	PASS
	6	0	22.33	22.31	22.28	-2.45	-0.3	19.88	19.86	19.83	50	PASS
		2	22.34	22.45	22.43	-2.45	-0.3	19.89	20	19.98	50	PASS
		5	22.48	22.57	22.58	-2.45	-0.3	20.03	20.12	20.13	50	PASS
16QAM	1	0	22.42	22.15	22.27	-2.45	-0.3	19.97	19.7	19.82	50	PASS
		2	22.38	22.13	22.32	-2.45	-0.3	19.93	19.68	19.87	50	PASS
		3	22.3	21.98	22.28	-2.45	-0.3	19.85	19.53	19.83	50	PASS
	3	0	21.16	21.3	21.1	-2.45	-0.3	18.71	18.85	18.65	50	PASS
		2	22.48	22.57	22.58	-2.45	-0.3	20.03	20.12	20.13	50	PASS
		5	22.5	22.66	22.45	-2.45	-0.3	20.05	20.21	20	50	PASS
	6	0	22.33	22.31	22.28	-2.45	-0.3	19.88	19.86	19.83	50	PASS
		2	22.34	22.45	22.43	-2.45	-0.3	19.89	20	19.98	50	PASS
		5	22.48	22.57	22.58	-2.45	-0.3	20.03	20.12	20.13	50	PASS

Note:
1) dBd = dBi - 2.15
2) EIRP = Conducted output power + Antenna gain (dBi)
3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 26a 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.27	23.29	23.1	-2.45	-0.3	20.82	20.84	20.65	50	PASS
		7	23.83	23.31	23.06	-2.45	-0.3	21.38	20.86	20.61	50	PASS
		14	23.51	22.94	23.14	-2.45	-0.3	21.06	20.49	20.69	50	PASS
	8	0	22.33	22.31	22.32	-2.45	-0.3	19.88	19.86	19.87	50	PASS
		4	22.42	22.24	22.16	-2.45	-0.3	19.97	19.79	19.71	50	PASS
		7	22.33	22.19	22.22	-2.45	-0.3	19.88	19.74	19.77	50	PASS
	15	0	22.31	22.34	22.25	-2.45	-0.3	19.86	19.89	19.8	50	PASS
		7	22.48	22.65	21.6	-2.45	-0.3	20.03	20.2	19.15	50	PASS
		14	22.73	22.64	21.51	-2.45	-0.3	20.28	20.19	19.06	50	PASS
16QAM	1	0	21.11	21.45	21.29	-2.45	-0.3	18.66	19	18.84	50	PASS
		4	21.33	21.37	21.22	-2.45	-0.3	18.88	18.92	18.77	50	PASS
		7	21.33	21.34	21.22	-2.45	-0.3	18.88	18.89	18.77	50	PASS
	8	0	21.11	21.45	21.29	-2.45	-0.3	18.66	19	18.84	50	PASS
		4	21.33	21.37	21.22	-2.45	-0.3	18.88	18.92	18.77	50	PASS
		7	21.33	21.34	21.22	-2.45	-0.3	18.88	18.89	18.77	50	PASS
	15	0	21.21	21.52	21.08	-2.45	-0.3	18.76	19.07	18.63	50	PASS
		4	21.33	21.37	21.22	-2.45	-0.3	18.88	18.92	18.77	50	PASS
		7	21.33	21.34	21.22	-2.45	-0.3	18.88	18.89	18.77	50	PASS

Note:
1) dBd = dBi - 2.15
2) EIRP = Conducted output power + Antenna gain (dBi)
3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 26a 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.91	23.12	22.94	-2.45	-0.3	20.46	20.67	20.49	50	PASS
		13	23.4	23.2	22.87	-2.45	-0.3	20.95	20.75	20.42	50	PASS
		24	23.17	22.8	23.06	-2.45	-0.3	20.72	20.35	20.61	50	PASS
	12	0	22.3	22.3	22.22	-2.45	-0.3	19.85	19.85	19.77	50	PASS
		6	22.32	22.29	22.2	-2.45	-0.3	19.87	19.84	19.75	50	PASS
		13	22.27	22.11	22.1	-2.45	-0.3	19.82	19.66	19.65	50	PASS
	25	0	22.27	22.27	22.21	-2.45	-0.3	19.82	19.82	19.76	50	PASS
16QAM	1		21.98	22.66	22.03	-2.45	-0.3	19.53	20.21	19.58	50	PASS
		13	22.34	22.81	21.85	-2.45	-0.3	19.89	20.36	19.4	50	PASS
		24	22.2	22.65	21.58	-2.45	-0.3	19.75	20.2	19.13	50	PASS
	12	0	21.49	21.21	21.14	-2.45	-0.3	19.04	18.76	18.69	50	PASS
		6	21.54	21.12	21.02	-2.45	-0.3	19.09	18.67	18.57	50	PASS
		13	21.4	21.02	21.07	-2.45	-0.3	18.95	18.57	18.62	50	PASS
	25	0	21.39	21.31	21.25	-2.45	-0.3	18.94	18.86	18.8	50	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 26a 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	/	23.3	/	-2.45	-0.3	/	20.85	/	50	PASS
		25	/	23.45	/	-2.45	-0.3	/	21	/	50	PASS
		49	/	23.18	/	-2.45	-0.3	/	20.73	/	50	PASS
	25	0	/	22.39	/	-2.45	-0.3	/	19.94	/	50	PASS
		13	/	22.26	/	-2.45	-0.3	/	19.81	/	50	PASS
		25	/	22.12	/	-2.45	-0.3	/	19.67	/	50	PASS
	50	0	/	22.3	/	-2.45	-0.3	/	19.85	/	50	PASS
16QAM	1	0	/	22.22	/	-2.45	-0.3	/	19.77	/	50	PASS
		25	/	22.29	/	-2.45	-0.3	/	19.84	/	50	PASS
		49	/	21.98	/	-2.45	-0.3	/	19.53	/	50	PASS
	25	0	/	21.47	/	-2.45	-0.3	/	19.02	/	50	PASS
		13	/	21.36	/	-2.45	-0.3	/	18.91	/	50	PASS
		25	/	21.13	/	-2.45	-0.3	/	18.68	/	50	PASS
	50	0	/	21.16	/	-2.45	-0.3	/	18.71	/	50	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3) ERP = Conducted output power + Antenna gain (dBd)

3.12 Test Data - LTE Band 38

Max Power: 23.24dBm

Test Band: 38 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.83	22.79	22.95	/	3.5	26.33	26.29	26.45	33.01	PASS
		13	22.97	22.63	22.86	/	3.5	26.47	26.13	26.36	33.01	PASS
		24	22.57	22.5	22.67	/	3.5	26.07	26	26.17	33.01	PASS
	12	0	22.13	21.91	21.9	/	3.5	25.63	25.41	25.4	33.01	PASS
		6	22.14	21.9	22.05	/	3.5	25.64	25.4	25.55	33.01	PASS
		13	21.99	21.94	21.98	/	3.5	25.49	25.44	25.48	33.01	PASS
	25	0	22.07	21.9	21.97	/	3.5	25.57	25.4	25.47	33.01	PASS
		13	22.2	21.98	21.89	/	3.5	25.7	25.48	25.39	33.01	PASS
		24	21.94	22.19	21.79	/	3.5	25.44	25.69	25.29	33.01	PASS
16QAM	1	0	20.8	20.61	20.86	/	3.5	24.3	24.11	24.36	33.01	PASS
		6	20.85	20.61	20.86	/	3.5	24.35	24.11	24.36	33.01	PASS
		13	20.78	20.77	20.77	/	3.5	24.28	24.27	24.27	33.01	PASS
	12	0	20.85	20.84	20.87	/	3.5	24.35	24.34	24.37	33.01	PASS
		13	20.85	20.84	20.87	/	3.5	24.35	24.34	24.37	33.01	PASS
		24	20.85	20.84	20.87	/	3.5	24.35	24.34	24.37	33.01	PASS
	25	0	20.85	20.84	20.87	/	3.5	24.35	24.34	24.37	33.01	PASS
		13	20.85	20.84	20.87	/	3.5	24.35	24.34	24.37	33.01	PASS
		24	20.85	20.84	20.87	/	3.5	24.35	24.34	24.37	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

22.97

Test Band: 38 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.14	23	22.83	/	3.5	26.64	26.5	26.33	33.01	PASS
		25	22.97	23.06	23.07	/	3.5	26.47	26.56	26.57	33.01	PASS
		49	22.85	22.82	22.74	/	3.5	26.35	26.32	26.24	33.01	PASS
	25	0	22.1	21.86	22	/	3.5	25.6	25.36	25.5	33.01	PASS
		13	22.05	21.87	22.06	/	3.5	25.55	25.37	25.56	33.01	PASS
		25	22	21.95	21.94	/	3.5	25.5	25.45	25.44	33.01	PASS
	50	0	21.99	21.99	21.96	/	3.5	25.49	25.49	25.46	33.01	PASS
		25	22.55	22.32	21.69	/	3.5	26.05	25.82	25.19	33.01	PASS
		49	22.29	22.4	21.56	/	3.5	25.79	25.9	25.06	33.01	PASS
16QAM	1	0	21.01	20.78	20.93	/	3.5	24.51	24.28	24.43	33.01	PASS
		13	20.83	20.82	20.9	/	3.5	24.33	24.32	24.4	33.01	PASS
		25	20.96	20.82	20.76	/	3.5	24.46	24.32	24.26	33.01	PASS
	25	0	20.96	20.81	20.99	/	3.5	24.46	24.31	24.49	33.01	PASS
		13	20.96	20.81	20.99	/	3.5	24.46	24.31	24.49	33.01	PASS
		25	20.96	20.81	20.99	/	3.5	24.46	24.31	24.49	33.01	PASS
	50	0	20.96	20.81	20.99	/	3.5	24.46	24.31	24.49	33.01	PASS
		13	20.96	20.81	20.99	/	3.5	24.46	24.31	24.49	33.01	PASS
		25	20.96	20.81	20.99	/	3.5	24.46	24.31	24.49	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.14

Test Band: 38 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.24	22.94	22.96	/	3.5	26.74	26.44	26.46	33.01	PASS
		38	22.83	22.94	22.97	/	3.5	26.33	26.44	26.47	33.01	PASS
		74	22.66	22.76	22.82	/	3.5	26.16	26.26	26.32	33.01	PASS
	36	0	22	21.84	21.84	/	3.5	25.5	25.34	25.34	33.01	PASS
		18	21.97	21.94	22.08	/	3.5	25.47	25.44	25.58	33.01	PASS
		39	21.89	21.79	21.85	/	3.5	25.39	25.29	25.35	33.01	PASS
16QAM	75	0	22	21.84	21.89	/	3.5	25.5	25.34	25.39	33.01	PASS
			22.2	22.18	21.66	/	3.5	25.7	25.68	25.16	33.01	PASS
			21.85	22.66	21.6	/	3.5	25.35	26.16	25.1	33.01	PASS
	1	38	21.86	22.2	21.64	/	3.5	25.36	25.7	25.14	33.01	PASS
		74	20.72	20.85	21	/	3.5	24.22	24.35	24.5	33.01	PASS
		0	20.84	20.94	20.98	/	3.5	24.34	24.44	24.48	33.01	PASS
	36	18	20.61	20.88	20.86	/	3.5	24.11	24.38	24.36	33.01	PASS
		39	20.98	20.82	20.94	/	3.5	24.48	24.32	24.44	33.01	PASS
		0										

Note: 23.24

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 38 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.18	22.83	22.51	/	3.5	26.68	26.33	26.01	33.01	PASS
		50	23.16	23.2	23.16	/	3.5	26.66	26.7	26.66	33.01	PASS
		99	22.92	22.84	22.7	/	3.5	26.42	26.34	26.2	33.01	PASS
	50	0	22.13	21.86	21.9	/	3.5	25.63	25.36	25.4	33.01	PASS
		25	22.02	21.96	22	/	3.5	25.52	25.46	25.5	33.01	PASS
		50	21.84	21.78	21.86	/	3.5	25.34	25.28	25.36	33.01	PASS
16QAM	100	0	22	21.79	21.93	/	3.5	25.5	25.29	25.43	33.01	PASS
			22.04	21.8	22.34	/	3.5	25.54	25.3	25.84	33.01	PASS
			22.27	22.45	23.1	/	3.5	25.77	25.95	26.6	33.01	PASS
	1	50	22.34	21.73	22.07	/	3.5	25.84	25.23	25.57	33.01	PASS
		99	20.89	20.78	20.93	/	3.5	24.39	24.28	24.43	33.01	PASS
		0	20.83	20.99	21.09	/	3.5	24.33	24.49	24.59	33.01	PASS
	50	25	20.92	20.76	20.87	/	3.5	24.42	24.26	24.37	33.01	PASS
		50	20.98	20.77	20.9	/	3.5	24.48	24.27	24.4	33.01	PASS
		0										

Note: 23.2

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3.13 Test Data - LTE Band 41

Max Power: 23.99dBm

Test Band: 41 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.28	22.72	22.43	/	3.5	26.78	26.22	25.93	33.01	PASS
		13	23.16	22.73	22.52	/	3.5	26.66	26.23	26.02	33.01	PASS
		24	22.92	22.58	22.33	/	3.5	26.42	26.08	25.83	33.01	PASS
	12	0	22.37	21.8	21.67	/	3.5	25.87	25.3	25.17	33.01	PASS
		6	22.3	21.77	21.66	/	3.5	25.8	25.27	25.16	33.01	PASS
		13	22.43	21.87	21.49	/	3.5	25.93	25.37	24.99	33.01	PASS
	25	0	22.3	21.88	21.55	/	3.5	25.8	25.38	25.05	33.01	PASS
	23.04		21.55	21.88	/	3.5	26.54	25.05	25.38	33.01	PASS	
	16QAM	1	13	22.61	21.81	21.82	/	3.5	26.11	25.31	25.32	33.01
24			22.51	21.59	21.53	/	3.5	26.01	25.09	25.03	33.01	PASS
0			21.24	20.81	20.26	/	3.5	24.74	24.31	23.76	33.01	PASS
12		6	21.09	20.72	20.3	/	3.5	24.59	24.22	23.8	33.01	PASS
		13	21.13	20.81	20.36	/	3.5	24.63	24.31	23.86	33.01	PASS
		25	0	21.29	20.79	20.41	/	3.5	24.79	24.29	23.91	33.01

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.28

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.28

Test Band: 41 10MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.41	22.63	22.57	/	3.5	26.91	26.13	26.07	33.01	PASS	
		25	23.72	22.89	22.52	/	3.5	27.22	26.39	26.02	33.01	PASS	
		49	23.19	22.69	22.56	/	3.5	26.69	26.19	26.06	33.01	PASS	
	25	0	22.39	21.76	21.68	/	3.5	25.89	25.26	25.18	33.01	PASS	
		13	22.38	21.89	21.7	/	3.5	25.88	25.39	25.2	33.01	PASS	
		25	22.3	21.94	21.64	/	3.5	25.8	25.44	25.14	33.01	PASS	
	50	0	22.35	21.88	21.61	/	3.5	25.85	25.38	25.11	33.01	PASS	
	22.03		22.14	21.4	/	3.5	25.53	25.64	24.9	33.01	PASS		
	25		23.99	22.47	21.57	/	3.5	27.49	25.97	25.07	33.01	PASS	
16QAM	1	49	22.28	22.23	21.23	/	3.5	25.78	25.73	24.73	33.01	PASS	
		25	0	21.53	20.83	20.59	/	3.5	25.03	24.33	24.09	33.01	PASS
			13	21.26	20.74	20.66	/	3.5	24.76	24.24	24.16	33.01	PASS
	25		21.35	20.76	20.49	/	3.5	24.85	24.26	23.99	33.01	PASS	
	50	0	21.21	20.71	20.46	/	3.5	24.71	24.21	23.96	33.01	PASS	
	Note:												23.99
	1) dBd = dBi - 2.15												
2) EIRP = Conducted output power + Antenna gain (dBi)													

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

23.99

Test Band: 41 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.36	22.78	22.82	/	3.5	26.86	26.28	26.32	33.01	PASS
		38	22.94	22.85	22.64	/	3.5	26.44	26.35	26.14	33.01	PASS
		74	22.93	22.77	22.45	/	3.5	26.43	26.27	25.95	33.01	PASS
	36	0	22.22	21.79	21.62	/	3.5	25.72	25.29	25.12	33.01	PASS
		18	22.05	21.89	21.66	/	3.5	25.55	25.39	25.16	33.01	PASS
		39	22.01	21.89	21.54	/	3.5	25.51	25.39	25.04	33.01	PASS
16QAM	75	0	22.01	21.86	21.64	/	3.5	25.51	25.36	25.14	33.01	PASS
			22.52	22.22	21.31	/	3.5	26.02	25.72	24.81	33.01	PASS
			22.07	22.12	21.64	/	3.5	25.57	25.62	25.14	33.01	PASS
	1	38	22.11	22.34	21.28	/	3.5	25.61	25.84	24.78	33.01	PASS
		74	22.11	22.34	21.28	/	3.5	25.61	25.84	24.78	33.01	PASS
		0	21.12	20.94	20.59	/	3.5	24.62	24.44	24.09	33.01	PASS
	36	18	21.04	20.94	20.66	/	3.5	24.54	24.44	24.16	33.01	PASS
		39	21.08	20.93	20.4	/	3.5	24.58	24.43	23.9	33.01	PASS
		75	21.17	20.81	20.48	/	3.5	24.67	24.31	23.98	33.01	PASS

Note: 23.36

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

Test Band: 41 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.3	22.97	22.41	/	3.5	26.8	26.47	25.91	33.01	PASS
		50	23.49	23.17	22.63	/	3.5	26.99	26.67	26.13	33.01	PASS
		99	23.06	22.71	22.27	/	3.5	26.56	26.21	25.77	33.01	PASS
	50	0	22.23	21.7	21.63	/	3.5	25.73	25.2	25.13	33.01	PASS
		25	22	21.83	21.6	/	3.5	25.5	25.33	25.1	33.01	PASS
		50	22.15	21.61	21.6	/	3.5	25.65	25.11	25.1	33.01	PASS
16QAM	100	0	22.07	21.72	21.64	/	3.5	25.57	25.22	25.14	33.01	PASS
			22.3	21.73	22.09	/	3.5	25.8	25.23	25.59	33.01	PASS
			23.11	22.26	22.2	/	3.5	26.61	25.76	25.7	33.01	PASS
	1	99	22.45	21.68	21.86	/	3.5	25.95	25.18	25.36	33.01	PASS
		0	21.2	20.77	20.86	/	3.5	24.7	24.27	24.36	33.01	PASS
		25	21.22	20.92	20.78	/	3.5	24.72	24.42	24.28	33.01	PASS
	50	50	20.95	20.77	20.49	/	3.5	24.45	24.27	23.99	33.01	PASS
		100	21.08	20.72	20.69	/	3.5	24.58	24.22	24.19	33.01	PASS
		0	21.08	20.72	20.69	/	3.5	24.58	24.22	24.19	33.01	PASS

Note: 23.49

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)