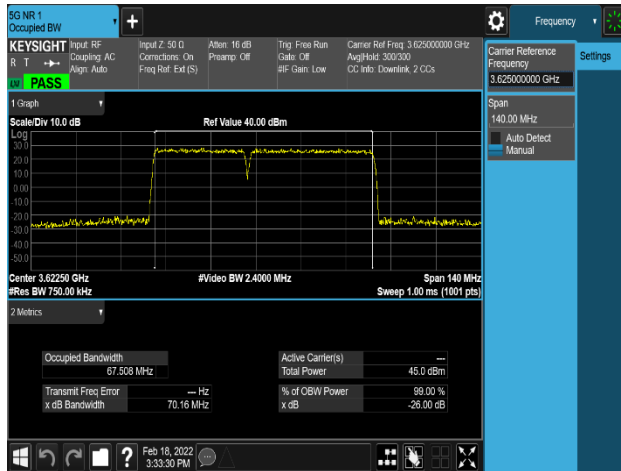
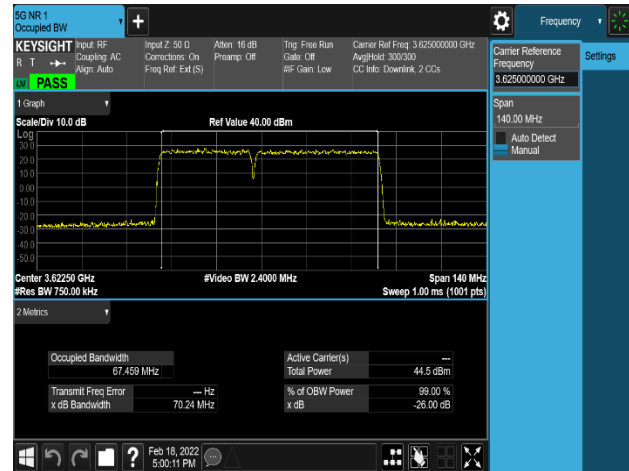
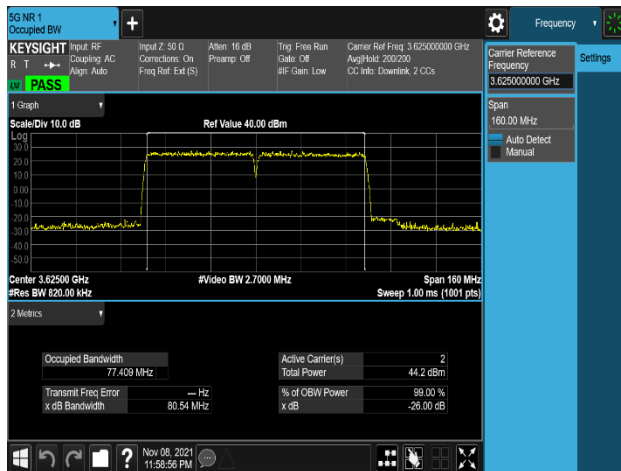




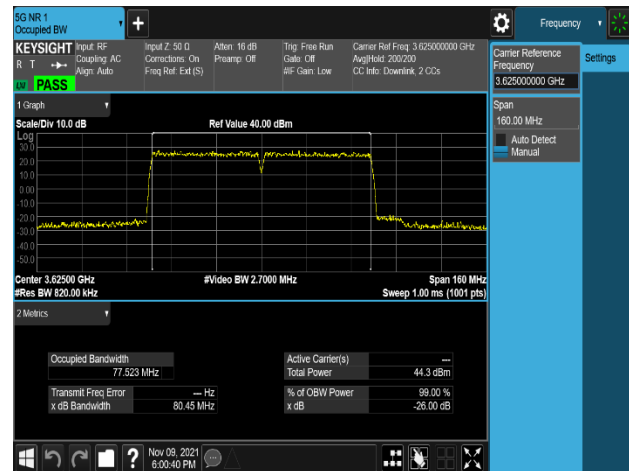
Plot 8-67. Occupied Bandwidth Plot
(NR_n48_2C_30M+40M_QPSK - Mid Channel, Port 0)



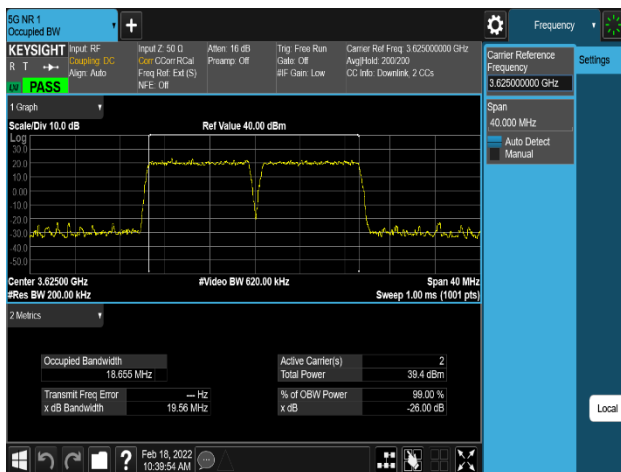
Plot 8-68. Occupied Bandwidth Plot
(NR_n48_2C_30M+40M_16QAM - Mid Channel, Port 0)



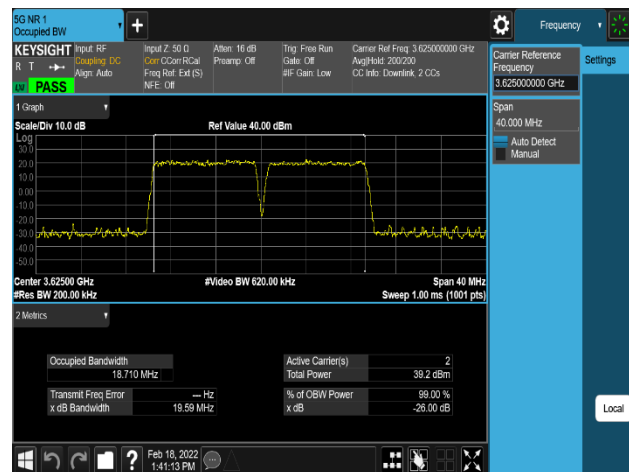
Plot 8-69. Occupied Bandwidth Plot
(NR_n48_2C_40M+40M_QPSK - Mid Channel, Port 0)



Plot 8-70. Occupied Bandwidth Plot
(NR_n48_2C_40M+40M_16QAM - Mid Channel, Port 0)

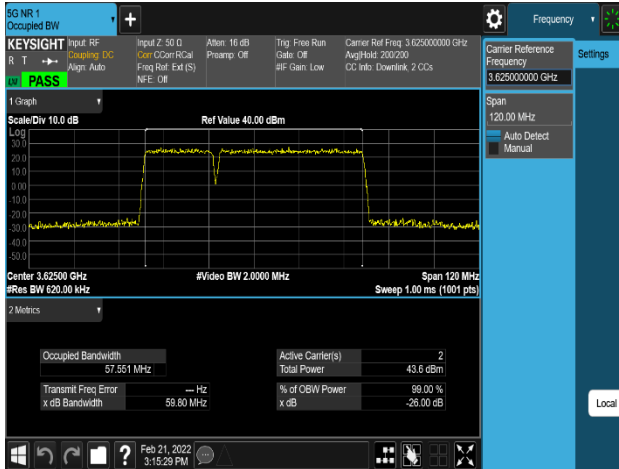


Plot 8-71. Occupied Bandwidth Plot
(LTE_1C+NR_1C_10M+10M_QPSK - Mid Channel, Port0)

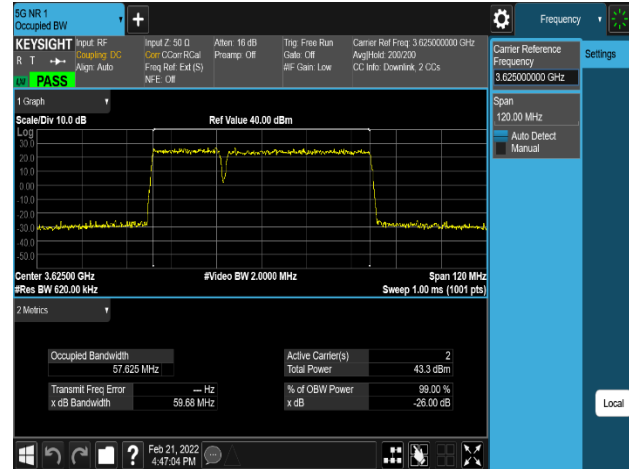


Plot 8-72. Occupied Bandwidth Plot
(LTE_1C+NR_1C_10M+10M_16QAM - Mid Channel, Port0)

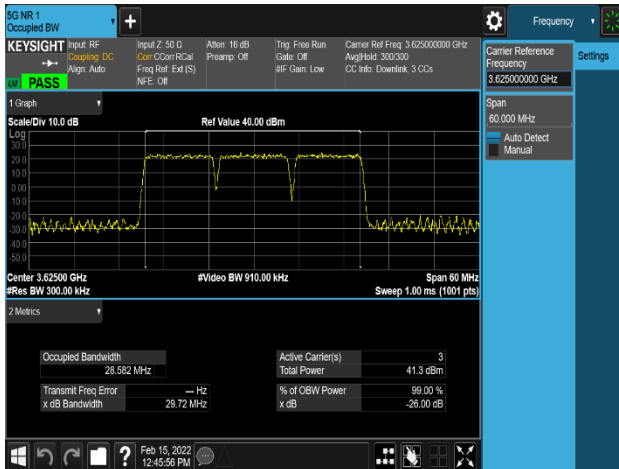
FCC: A3LRT4401-48A1	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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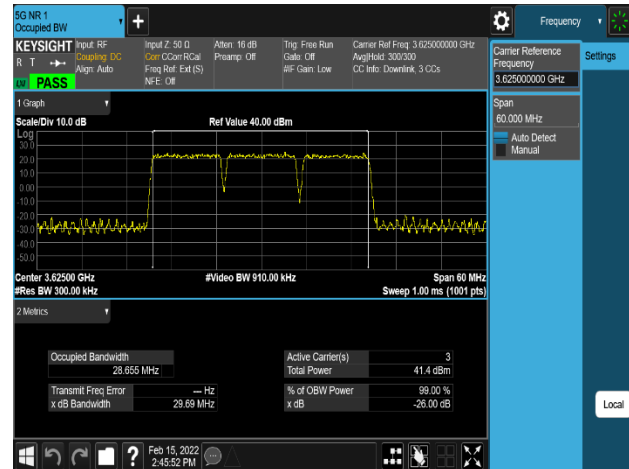
Plot 8-73. Occupied Bandwidth Plot
(LTE_1C+NR_1C_20M+40M_QPSK - Mid Channel, Port0)



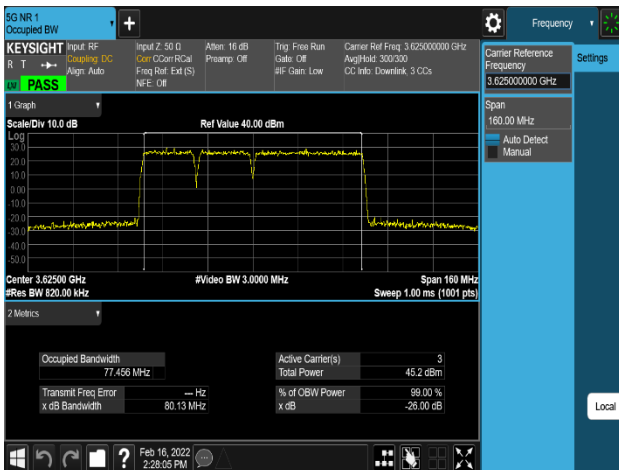
Plot 8-74. Occupied Bandwidth Plot
(LTE_1C+NR_1C_20M+40M_16QAM - Mid Channel, Port0)



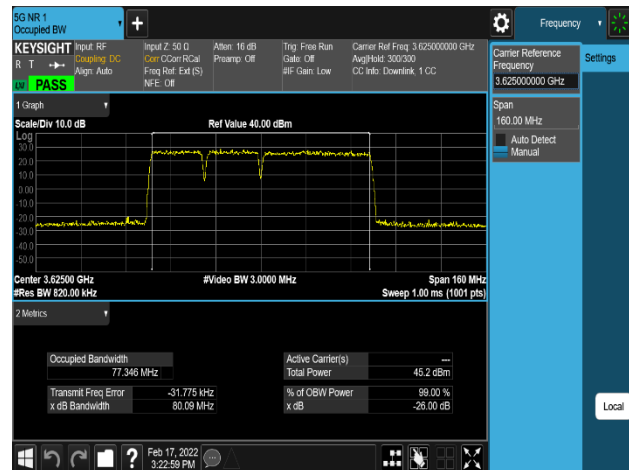
Plot 8-75. Occupied Bandwidth Plot
(LTE_2C+NR_1C_10M+10M+10M_QPSK - Mid Channel, Port0)



Plot 8-76. Occupied Bandwidth Plot
(LTE_2C+NR_1C_10M+10M+10M_16QAM - Mid Channel, Port0)



Plot 8-77. Occupied Bandwidth Plot
(LTE_2C+NR_1C_20M+20M+40M_QPSK - Mid Channel, Port0)



Plot 8-78. Occupied Bandwidth Plot
(LTE_2C+NR_1C_20M+20M+40M_16QAM - Mid Channel, Port0)

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8.3 Modulation Characteristics

Test Overview

Verification of a curve or equivalent data that shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed.

Test Procedure Used

ANSI C63.26 - Section 5.3

Test Setting

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer setting was modulation analyzer mode.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

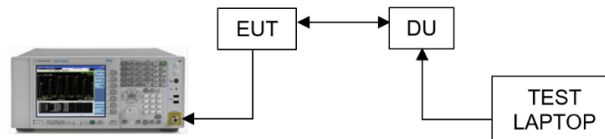


Figure 8-2. Test Instrument & Measurement Setup

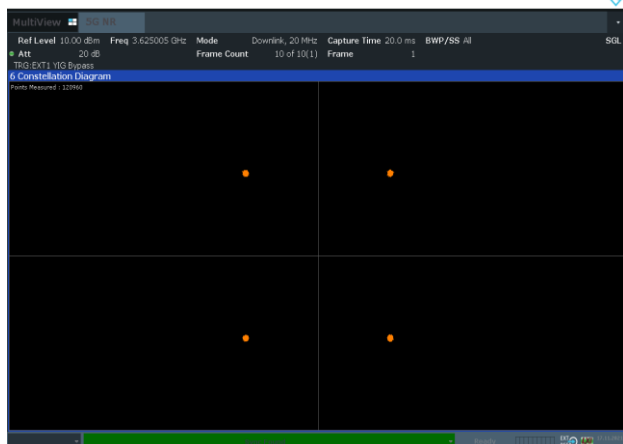
Limit

Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.

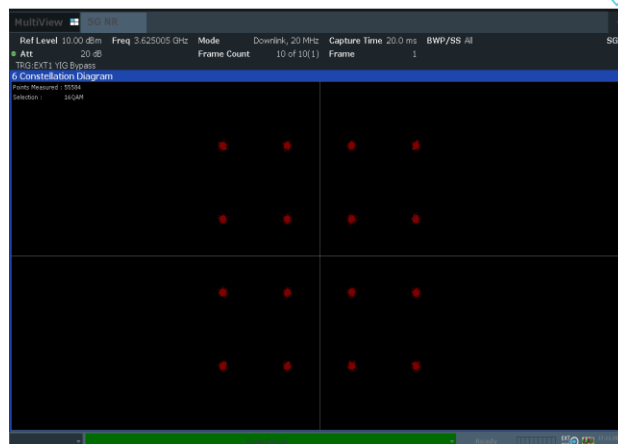
Test Notes

Systems operating used digital modulation techniques.

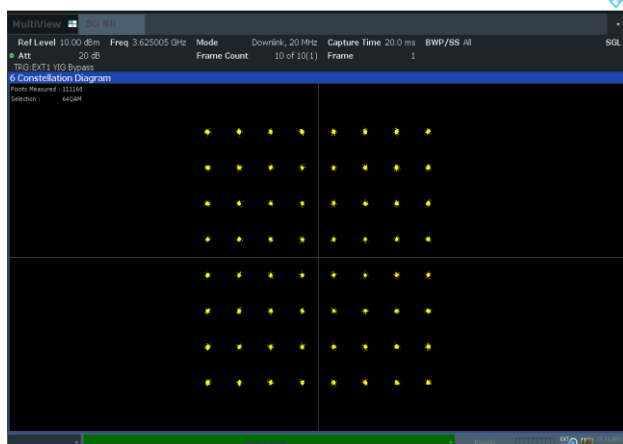
FCC: A3LRT4401-48A1	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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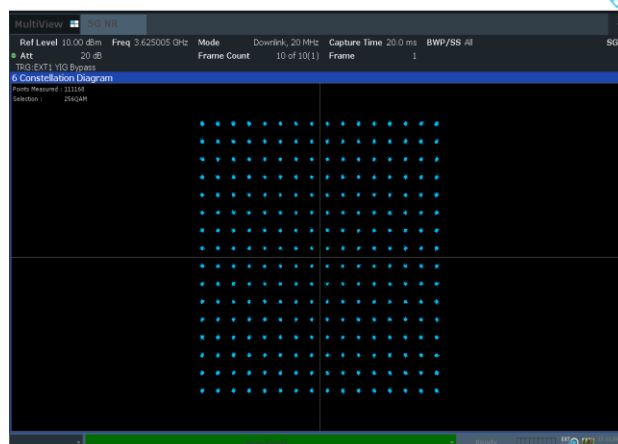
Plot 8-79. Modulation Characteristics Plot
(NR_n48_1C_20M_QPSK Modulation)



Plot 8-80. Modulation Characteristics Plot
(NR_n48_1C_20M_16QAM Modulation)



Plot 8-81. Modulation Characteristics Plot
(NR_n48_1C_20M_64QAM Modulation)



Plot 8-82. Modulation Characteristics Plot
(NR_n48_1C_20M_256QAM Modulation)

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8.4 Power Spectral Density

Test Overview

A transmitter port of EUT is connected to the input of a signal analyzer. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedure Used

ANSI C63.26 - Section 5.2.4
 ANSI C63.26 - Section 5.2.5
 KDB 971168 D01 v03r01 - Section 5.3

ANSI C63.26 - Section 6.4.3.2.3
 KDB 662911 D01 v02r01
 - Section E)2) In-Band Power Spectral Density (PSD) Measurements
 b) Measure and sum spectral maxima across the outputs.

Test Setting

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer settings were as follows:

The PSD is measured following the same procedures described in 5.2.4.4 of ANSI C63.26 for measuring the total average power, but with the RBW set to the reference bandwidth specified by the applicable regulatory requirement, and by using the marker function to identify the maximum PSD instead of summing the power across the OBW. If the fundamental measurement condition cannot be realized, then one of the alternative procedures in 5.2.4.4.2 or 5.2.4.4.3 should be selected, based on whether the transmitter duty cycle is constant (variations $\leq \pm 2\%$) or non-constant (variations $> \pm 2\%$), respectively.

1. Conducted power measurements are performed using the signal analyzer's "SA mode" measurement capability for signals with continuous operation.
2. Set span to $2 \times$ to $3 \times$ the OBW.
3. Set RBW = 1 MHz (the reference bandwidth)
4. Set VBW $\geq 3 \times$ RBW.
5. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
6. Sweep time:
 - a) Set $\geq$ auto-couple, and enable trace averaging, or
 - b) Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ and enable a single sweep (automation-compatible) measurement. The sweep time should never be faster than the auto-coupled sweep time.
7. Detector = power averaging (rms).
8. The trace was allowed to stabilize
9. Use the peak marker function to determine the maximum amplitude level. ($=P_{\text{Meas}}$)
10. The relevant equation for determining the maximum EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$
 where
 G_T : gain of the transmitting antenna, in dBi (EIRP).

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

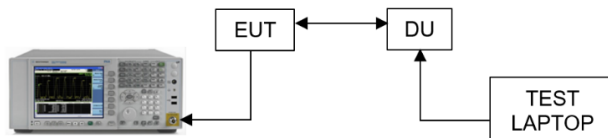


Figure 8-3. Test Instrument & Measurement Setup

Limit

Category B CBSD : 37 dBm/MHz

Test Notes

- Consider the following factors for MIMO Power Spectral Density:
The power spectral density is measured as dBm / MHz, with the resolution bandwidth of 1 MHz PSDs are summed up in linear using the measure-and-sum technique defined in KDB 971168 D01 v03r01 - Section E) 2).
- Periodic trigger was used with gating ON. Gate sweep time, Gate delay and gate length were set accordingly to capture ON time of the transmission.
- PSD per port (dBm / MHz) is converted to a linear value (mW). A summation of linear powers for all ports gives us the total MIMO conducted Power (mW). We convert this back to logarithmic scale for further PSD calculations.
- Antenna Gains (dBi) are provided by the client.
- The EUT have multiple antennas transmitting correlated signals with the equal antenna gains and two outputs driving a cross-polarized antennas with $N_{ANT}=2$.
Directional gain is to be computed as follows;
* Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi
- Worst e.i.r.p Case Scenario gain antenna was selected to perform all RF testing that can get maximum power setting. And high gain antenna power setting will be reduced according to difference value of antenna gain declared by applicant.
- Applied antenna gain and cable loss as below:

Rated Power / Path (dBm/10MHz)	Antenna gain (dBi)	Directional gain (dBi)	External Loss (dB)	Applied Antenna gain (dBi)
36 (2 dB Power Boosting)	7.1	10.1	0.1	10.0
35 (1 dB Power Boosting)	8.1	11.1	0.1	11.0
34 (None Power Boosting)	9.6	12.6	0.6	12.0
Note: Applied Antenna gain = Direction gain - External Loss				

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8. Sample Calculation:

Let us assume the following numbers:

- a) Total MIMO Conducted Power as 493.22 mW
- b) Antenna Gain = 10.00 dBi

Factors		Value	Unit
Summed MIMO Conducted Power (linear sum)		493.22	mW
Summed MIMO Conducted Power (dBm)	= 10 * log (493.22) =	26.93	dBm/MHz
Antenna Gain		10.00	dBi
Total MIMO EIRP		36.93	dBm/MHz
Limit		37.00	dBm/MHz
Margin = Limit - Total MIMO EIRP	= 36.93 – 37.00 =	-0.07	dB

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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.79	20.90	20.83	20.92
	1	20.76	20.89	20.91	20.80
	2	20.86	20.89	20.86	20.88
	3	20.85	20.95	20.93	20.93
Total MIMO Power Spectral Density (mW/MHz)		482.87	493.22	490.15	489.86
Total MIMO Power Spectral Density (dBm/MHz)		26.84	26.93	26.90	26.90
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.84	36.93	36.90	36.90
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.16	-0.07	-0.10	-0.10
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.81	20.87	20.92	20.88
	1	20.82	20.83	20.82	20.84
	2	20.95	20.83	20.91	20.87
	3	20.99	20.93	20.94	20.84
Total MIMO Power Spectral Density (mW/MHz)		491.48	488.15	491.91	487.38
Total MIMO Power Spectral Density (dBm/MHz)		26.92	26.89	26.92	26.88
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.92	36.89	36.92	36.88
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.08	-0.11	-0.08	-0.12
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.65	20.64	20.69	20.65
	1	20.83	20.96	20.87	20.83
	2	20.90	20.90	20.96	20.91
	3	20.99	20.80	21.06	21.02
Total MIMO Power Spectral Density (mW/MHz)		485.80	483.95	491.95	487.15
Total MIMO Power Spectral Density (dBm/MHz)		26.86	26.85	26.92	26.88
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.86	36.85	36.92	36.88
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.14	-0.15	-0.08	-0.12

Table 8-12. Power Spectral Density Table (LTE_B48_1C_10M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.80	20.93	20.92	20.93
	1	20.76	20.76	20.77	20.80
	2	20.83	20.89	20.78	20.85
	3	20.87	20.96	20.78	20.90
Total MIMO Power Spectral Density (mW/MHz)		482.42	490.43	482.40	488.72
Total MIMO Power Spectral Density (dBm/MHz)		26.83	26.91	26.83	26.89
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.83	36.91	36.83	36.89
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.17	-0.09	-0.17	-0.11
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.91	20.89	20.84	20.86
	1	20.84	20.76	20.90	20.81
	2	20.91	20.86	20.94	20.84
	3	20.94	20.80	20.92	20.89
Total MIMO Power Spectral Density (mW/MHz)		491.90	484.00	492.35	486.46
Total MIMO Power Spectral Density (dBm/MHz)		26.92	26.85	26.92	26.87
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.92	36.85	36.92	36.87
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.08	-0.15	-0.08	-0.13
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.88	20.87	20.80	20.89
	1	20.88	20.81	20.81	20.76
	2	20.87	20.86	20.94	20.95
	3	20.83	20.92	20.83	21.01
Total MIMO Power Spectral Density (mW/MHz)		487.94	488.35	486.21	492.36
Total MIMO Power Spectral Density (dBm/MHz)		26.88	26.89	26.87	26.92
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.88	36.89	36.87	36.92
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.12	-0.11	-0.13	-0.08

Table 8-13. Power Spectral Density Table (LTE_B48_1C_15M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.90	20.80	20.94	20.96
	1	20.75	20.93	20.89	20.90
	2	20.90	21.00	20.90	20.91
	3	21.03	20.96	20.92	20.93
Total MIMO Power Spectral Density (mW/MHz)		491.56	495.03	493.70	495.24
Total MIMO Power Spectral Density (dBm/MHz)		26.92	26.95	26.93	26.95
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.92	36.95	36.93	36.95
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.08	-0.05	-0.07	-0.05
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.84	20.90	20.91	20.82
	1	20.95	20.87	20.83	20.82
	2	20.91	20.96	20.95	20.94
	3	20.95	20.84	20.98	20.96
Total MIMO Power Spectral Density (mW/MHz)		493.21	490.98	494.31	490.89
Total MIMO Power Spectral Density (dBm/MHz)		26.93	26.91	26.94	26.91
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.93	36.91	36.94	36.91
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.07	-0.09	-0.06	-0.09
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.79	20.76	20.73	20.71
	1	20.85	20.81	20.82	20.86
	2	20.98	20.97	20.97	21.05
	3	20.93	20.91	21.10	20.98
Total MIMO Power Spectral Density (mW/MHz)		490.87	487.94	492.94	492.29
Total MIMO Power Spectral Density (dBm/MHz)		26.91	26.88	26.93	26.92
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.91	36.88	36.93	36.92
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.09	-0.12	-0.07	-0.08

Table 8-14. Power Spectral Density Table (LTE_B48_1C_20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.81	19.86	19.96	19.74
	1	19.86	19.97	19.75	19.91
	2	19.80	19.87	19.93	19.92
	3	19.82	19.97	19.93	19.92
Total MIMO Power Spectral Density (mW/MHz)		383.99	392.28	390.17	388.53
Total MIMO Power Spectral Density (dBm/MHz)		25.84	25.94	25.91	25.89
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.84	36.94	36.91	36.89
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.16	-0.06	-0.09	-0.11
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.84	19.94	19.83	19.74
	1	19.87	19.78	19.92	19.88
	2	19.96	20.03	20.04	20.02
	3	19.87	19.93	19.94	19.94
Total MIMO Power Spectral Density (mW/MHz)		389.41	392.58	393.82	390.51
Total MIMO Power Spectral Density (dBm/MHz)		25.90	25.94	25.95	25.92
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.90	36.94	36.95	36.92
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.10	-0.06	-0.05	-0.08
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.76	19.86	19.78	19.85
	1	19.80	19.80	19.85	19.88
	2	19.76	19.78	19.95	19.94
	3	19.82	19.77	19.83	19.96
Total MIMO Power Spectral Density (mW/MHz)		380.84	382.29	386.55	391.79
Total MIMO Power Spectral Density (dBm/MHz)		25.81	25.82	25.87	25.93
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.81	36.82	36.87	36.93
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.19	-0.18	-0.13	-0.07

Table 8-15. Power Spectral Density Table (LTE_B48_2C_10M+10M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.50	19.81	19.44	19.70
	1	19.52	19.69	19.43	19.71
	2	19.45	19.97	19.55	19.90
	3	19.47	19.73	19.47	19.65
Total MIMO Power Spectral Density (mW/MHz)		355.26	381.98	353.98	376.72
Total MIMO Power Spectral Density (dBm/MHz)		25.51	25.82	25.49	25.76
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.51	36.82	36.49	36.76
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.49	-0.18	-0.51	-0.24
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.34	19.59	19.35	19.54
	1	19.19	19.53	19.29	19.41
	2	19.38	19.50	19.44	19.52
	3	19.22	19.44	19.26	19.45
Total MIMO Power Spectral Density (mW/MHz)		339.20	357.76	343.11	354.91
Total MIMO Power Spectral Density (dBm/MHz)		25.30	25.54	25.35	25.50
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.30	36.54	36.35	36.50
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.70	-0.46	-0.65	-0.50
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.41	19.42	19.49	19.45
	1	19.23	19.47	19.45	19.30
	2	19.47	19.72	19.66	19.64
	3	19.41	19.58	19.57	19.59
Total MIMO Power Spectral Density (mW/MHz)		346.80	360.59	360.15	356.38
Total MIMO Power Spectral Density (dBm/MHz)		25.40	25.57	25.56	25.52
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.40	36.57	36.56	36.52
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.60	-0.43	-0.44	-0.48

Table 8-16. Power Spectral Density Table (LTE_B48_2C_10M+15M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.58	19.67	19.63	19.65
	1	19.65	19.70	19.63	19.72
	2	19.54	19.90	19.58	19.78
	3	19.68	19.70	19.66	19.78
Total MIMO Power Spectral Density (mW/MHz)		365.74	376.95	366.71	376.03
Total MIMO Power Spectral Density (dBm/MHz)		25.63	25.76	25.64	25.75
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.63	36.76	36.64	36.75
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.37	-0.24	-0.36	-0.25
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.40	19.46	19.45	19.49
	1	19.42	19.35	19.50	19.50
	2	19.36	19.67	19.50	19.42
	3	19.47	19.49	19.61	19.54
Total MIMO Power Spectral Density (mW/MHz)		349.45	355.95	357.78	355.31
Total MIMO Power Spectral Density (dBm/MHz)		25.43	25.51	25.54	25.51
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.43	36.51	36.54	36.51
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.57	-0.49	-0.46	-0.49
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.40	19.31	19.49	19.28
	1	19.23	19.48	19.65	19.25
	2	19.45	19.82	19.75	19.54
	3	19.64	19.56	19.73	19.47
Total MIMO Power Spectral Density (mW/MHz)		350.76	360.41	369.57	347.18
Total MIMO Power Spectral Density (dBm/MHz)		25.45	25.57	25.68	25.41
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.45	36.57	36.68	36.41
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.55	-0.43	-0.32	-0.59

Table 8-17. Power Spectral Density Table (LTE_B48_2C_15M+15M)

FCC: A3LRT4401-48A1	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.80	19.84	19.89	19.78
	1	19.87	19.85	19.87	19.87
	2	19.77	19.88	19.89	19.87
	3	19.86	19.95	19.97	19.88
Total MIMO Power Spectral Density (mW/MHz)		384.31	389.28	391.43	386.39
Total MIMO Power Spectral Density (dBm/MHz)		25.85	25.90	25.93	25.87
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.85	36.90	36.93	36.87
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.15	-0.10	-0.07	-0.13
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.44	19.54	19.45	19.48
	1	19.44	19.46	19.44	19.48
	2	19.44	19.55	19.47	19.54
	3	19.47	19.57	19.59	19.58
Total MIMO Power Spectral Density (mW/MHz)		352.28	358.84	355.37	358.18
Total MIMO Power Spectral Density (dBm/MHz)		25.47	25.55	25.51	25.54
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.47	36.55	36.51	36.54
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.53	-0.45	-0.49	-0.46
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.67	19.74	19.78	19.85
	1	19.80	19.76	19.82	19.86
	2	19.90	19.83	19.97	20.05
	3	19.77	19.88	19.89	19.93
Total MIMO Power Spectral Density (mW/MHz)		380.62	382.36	387.70	393.24
Total MIMO Power Spectral Density (dBm/MHz)		25.80	25.82	25.88	25.95
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.80	36.82	36.88	36.95
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.20	-0.18	-0.12	-0.05

Table 8-18. Power Spectral Density Table (LTE_B48_2C_20M+20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.60	19.86	19.64	19.58
	1	19.47	19.81	19.58	19.66
	2	19.86	19.97	19.89	19.82
	3	19.46	19.94	19.71	19.77
Total MIMO Power Spectral Density (mW/MHz)		364.66	390.42	373.93	373.99
Total MIMO Power Spectral Density (dBm/MHz)		25.62	25.92	25.73	25.73
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.62	36.92	36.73	36.73
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.38	-0.08	-0.27	-0.27
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.39	19.54	19.43	19.43
	1	19.41	19.55	19.47	19.44
	2	19.51	19.69	19.60	19.53
	3	19.40	19.64	19.53	19.45
Total MIMO Power Spectral Density (mW/MHz)		350.34	365.37	357.03	353.43
Total MIMO Power Spectral Density (dBm/MHz)		25.44	25.63	25.53	25.48
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.44	36.63	36.53	36.48
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.56	-0.37	-0.47	-0.52
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.36	19.46	19.26	19.44
	1	19.34	19.61	19.31	19.39
	2	19.45	19.67	19.58	19.55
	3	19.39	19.70	19.45	19.45
Total MIMO Power Spectral Density (mW/MHz)		347.32	365.63	348.71	353.06
Total MIMO Power Spectral Density (dBm/MHz)		25.41	25.63	25.42	25.48
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.41	36.63	36.42	36.48
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.59	-0.37	-0.58	-0.52

Table 8-19. Power Spectral Density Table (LTE_B48_3C_10M+10M+15M)

FCC: A3LRT4401-48A1	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.70	19.91	19.80	19.77
	1	19.63	19.86	19.67	19.68
	2	19.74	19.94	19.83	19.91
	3	19.71	20.01	19.77	19.87
Total MIMO Power Spectral Density (mW/MHz)		372.87	393.77	379.12	382.85
Total MIMO Power Spectral Density (dBm/MHz)		25.72	25.95	25.79	25.83
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.72	36.95	36.79	36.83
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.28	-0.05	-0.21	-0.17
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.40	19.64	19.43	19.43
	1	19.34	19.65	19.41	19.44
	2	19.40	19.60	19.45	19.49
	3	19.45	19.74	19.54	19.47
Total MIMO Power Spectral Density (mW/MHz)		347.98	369.67	352.91	353.07
Total MIMO Power Spectral Density (dBm/MHz)		25.42	25.68	25.48	25.48
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.42	36.68	36.48	36.48
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.58	-0.32	-0.52	-0.52
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.41	19.51	19.37	19.36
	1	19.37	19.40	19.36	19.35
	2	19.46	19.66	19.35	19.31
	3	19.50	19.55	19.48	19.46
Total MIMO Power Spectral Density (mW/MHz)		351.25	359.13	347.57	346.03
Total MIMO Power Spectral Density (dBm/MHz)		25.46	25.55	25.41	25.39
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.46	36.55	36.41	36.39
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.54	-0.45	-0.59	-0.61

Table 8-20. Power Spectral Density Table (LTE_B48_3C_10M+15M+20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.50	19.83	19.69	19.67
	1	19.48	19.76	19.59	19.53
	2	19.46	19.84	19.69	19.68
	3	19.48	19.90	19.73	19.71
Total MIMO Power Spectral Density (mW/MHz)		354.99	385.00	371.10	368.82
Total MIMO Power Spectral Density (dBm/MHz)		25.50	25.85	25.69	25.67
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.50	36.85	36.69	36.67
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.50	-0.15	-0.31	-0.33
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.42	19.57	19.53	19.54
	1	19.39	19.43	19.48	19.51
	2	19.47	19.69	19.62	19.61
	3	19.44	19.57	19.50	19.49
Total MIMO Power Spectral Density (mW/MHz)		350.69	361.92	359.25	359.78
Total MIMO Power Spectral Density (dBm/MHz)		25.45	25.59	25.55	25.56
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.45	36.59	36.55	36.56
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.55	-0.41	-0.45	-0.44
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.43	19.70	19.33	19.36
	1	19.38	19.65	19.32	19.30
	2	19.52	19.79	19.46	19.46
	3	19.55	19.78	19.51	19.54
Total MIMO Power Spectral Density (mW/MHz)		354.03	375.90	348.79	349.55
Total MIMO Power Spectral Density (dBm/MHz)		25.49	25.75	25.43	25.44
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.49	36.75	36.43	36.44
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.51	-0.25	-0.57	-0.56

Table 8-21. Power Spectral Density Table (LTE_B48_3C_10M+20M+20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.60	19.75	19.66	19.65
	1	19.58	19.79	19.68	19.65
	2	19.64	19.77	19.64	19.79
	3	19.66	19.88	19.66	19.71
Total MIMO Power Spectral Density (mW/MHz)		366.41	381.76	369.88	373.31
Total MIMO Power Spectral Density (dBm/MHz)		25.64	25.82	25.68	25.72
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.64	36.82	36.68	36.72
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.36	-0.18	-0.32	-0.28
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.38	19.66	19.52	19.55
	1	19.45	19.66	19.48	19.50
	2	19.59	19.91	19.65	19.79
	3	19.51	19.86	19.61	19.71
Total MIMO Power Spectral Density (mW/MHz)		355.16	379.80	361.86	368.25
Total MIMO Power Spectral Density (dBm/MHz)		25.50	25.80	25.59	25.66
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.50	36.80	36.59	36.66
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.50	-0.20	-0.41	-0.34
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.36	19.38	19.37	19.34
	1	19.19	19.25	19.26	19.20
	2	19.50	19.60	19.53	19.51
	3	19.33	19.48	19.40	19.38
Total MIMO Power Spectral Density (mW/MHz)		344.03	350.87	347.71	345.11
Total MIMO Power Spectral Density (dBm/MHz)		25.37	25.45	25.41	25.38
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.37	36.45	36.41	36.38
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.63	-0.55	-0.59	-0.62

Table 8-22. Power Spectral Density Table (LTE_B48_3C_15M+20M+20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.45	19.57	19.52	19.61
	1	19.44	19.69	19.49	19.55
	2	19.50	19.85	19.60	19.69
	3	19.48	19.68	19.59	19.70
Total MIMO Power Spectral Density (mW/MHz)		353.75	373.29	360.75	368.07
Total MIMO Power Spectral Density (dBm/MHz)		25.49	25.72	25.57	25.66
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.49	36.72	36.57	36.66
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.51	-0.28	-0.43	-0.34
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.48	19.78	19.61	19.55
	1	19.45	19.77	19.62	19.57
	2	19.78	20.10	19.86	19.84
	3	19.65	19.94	19.76	19.72
Total MIMO Power Spectral Density (mW/MHz)		364.10	390.71	374.53	370.97
Total MIMO Power Spectral Density (dBm/MHz)		25.61	25.92	25.73	25.69
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.61	36.92	36.73	36.69
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.39	-0.08	-0.27	-0.31
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.40	19.82	19.52	19.85
	1	19.28	19.61	19.41	19.51
	2	19.58	19.90	19.65	19.33
	3	19.38	19.79	19.56	19.34
Total MIMO Power Spectral Density (mW/MHz)		349.39	380.29	359.52	357.32
Total MIMO Power Spectral Density (dBm/MHz)		25.43	25.80	25.56	25.53
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.43	36.80	36.56	36.53
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.57	-0.20	-0.44	-0.47

Table 8-23. Power Spectral Density Table (LTE_B48_3C_20M+20M+20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.71	18.76	19.02	19.01
	1	18.73	18.52	18.87	18.82
	2	18.54	18.87	18.93	18.88
	3	18.71	18.71	18.75	18.67
Total MIMO Power Spectral Density (mW/MHz)		294.66	297.71	310.15	306.62
Total MIMO Power Spectral Density (dBm/MHz)		24.69	24.74	24.92	24.87
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.69	36.74	36.92	36.87
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.31	-0.26	-0.08	-0.13
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.59	18.86	18.66	18.81
	1	18.69	19.08	18.78	18.84
	2	18.49	18.82	18.51	18.75
	3	18.59	18.87	18.67	18.81
Total MIMO Power Spectral Density (mW/MHz)		289.26	311.05	293.51	303.70
Total MIMO Power Spectral Density (dBm/MHz)		24.61	24.93	24.68	24.82
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.61	36.93	36.68	36.82
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.39	-0.07	-0.32	-0.18
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.69	18.79	18.76	18.73
	1	18.72	18.87	18.79	18.83
	2	18.54	18.60	18.59	18.70
	3	18.62	18.63	18.73	18.84
Total MIMO Power Spectral Density (mW/MHz)		292.71	298.23	297.82	301.70
Total MIMO Power Spectral Density (dBm/MHz)		24.66	24.75	24.74	24.80
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.66	36.75	36.74	36.80
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.34	-0.25	-0.26	-0.20

Table 8-24. Power Spectral Density Table (LTE_B48_4C_10M+10M+10M+10M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.72	18.91	18.75	18.82
	1	18.56	18.83	18.71	18.67
	2	18.81	19.06	18.95	18.96
	3	18.65	18.88	18.78	18.74
Total MIMO Power Spectral Density (mW/MHz)		295.40	312.03	303.34	303.26
Total MIMO Power Spectral Density (dBm/MHz)		24.70	24.94	24.82	24.82
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.70	36.94	36.82	36.82
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.30	-0.06	-0.18	-0.18
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.51	18.67	18.59	18.56
	1	18.44	18.73	18.62	18.51
	2	18.91	19.05	18.98	18.86
	3	18.71	18.92	18.80	18.86
Total MIMO Power Spectral Density (mW/MHz)		293.06	306.76	300.15	296.52
Total MIMO Power Spectral Density (dBm/MHz)		24.67	24.87	24.77	24.72
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.67	36.87	36.77	36.72
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.33	-0.13	-0.23	-0.28
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.96	18.63	18.27	18.41
	1	18.81	18.49	18.12	18.29
	2	18.95	18.59	18.31	18.48
	3	18.97	18.59	18.34	18.49
Total MIMO Power Spectral Density (mW/MHz)		312.15	288.07	268.02	277.99
Total MIMO Power Spectral Density (dBm/MHz)		24.94	24.59	24.28	24.44
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.94	36.59	36.28	36.44
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.06	-0.41	-0.72	-0.56

Table 8-25. Power Spectral Density Table (LTE_B48_4C_10M+15M+20M+20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.40	18.79	18.40	18.48
	1	18.30	18.75	18.29	18.31
	2	18.52	18.82	18.45	18.43
	3	18.43	18.87	18.55	18.45
Total MIMO Power Spectral Density (mW/MHz)		277.56	304.00	278.30	277.87
Total MIMO Power Spectral Density (dBm/MHz)		24.43	24.83	24.45	24.44
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.43	36.83	36.45	36.44
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.57	-0.17	-0.55	-0.56
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.45	18.58	18.57	18.53
	1	18.47	18.53	18.51	18.48
	2	18.65	18.81	18.81	18.75
	3	18.71	18.82	18.75	18.73
Total MIMO Power Spectral Density (mW/MHz)		287.71	295.52	293.87	291.49
Total MIMO Power Spectral Density (dBm/MHz)		24.59	24.71	24.68	24.65
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.59	36.71	36.68	36.65
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.41	-0.29	-0.32	-0.35
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.49	18.69	18.58	18.51
	1	18.45	18.73	18.57	18.52
	2	18.58	18.87	18.57	18.64
	3	18.54	18.69	18.60	18.55
Total MIMO Power Spectral Density (mW/MHz)		284.26	299.74	288.46	286.82
Total MIMO Power Spectral Density (dBm/MHz)		24.54	24.77	24.60	24.58
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.54	36.77	36.60	36.58
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.46	-0.23	-0.40	-0.42

Table 8-26. Power Spectral Density Table (LTE_B48_4C_10M+20M+20M+20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.81	18.80	18.86	18.92
	1	18.80	18.91	18.84	18.87
	2	18.81	18.80	18.89	18.90
	3	18.91	18.90	18.99	18.92
Total MIMO Power Spectral Density (mW/MHz)		305.74	307.16	310.22	310.56
Total MIMO Power Spectral Density (dBm/MHz)		24.85	24.87	24.92	24.92
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.85	36.87	36.92	36.92
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.15	-0.13	-0.08	-0.08
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.74	18.97	18.72	18.76
	1	18.68	18.91	18.76	18.72
	2	18.82	18.90	18.87	18.81
	3	18.83	19.03	18.91	18.92
Total MIMO Power Spectral Density (mW/MHz)		301.18	314.26	304.53	303.74
Total MIMO Power Spectral Density (dBm/MHz)		24.79	24.97	24.84	24.83
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.79	36.97	36.84	36.83
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.21	-0.03	-0.16	-0.17
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.58	18.80	18.59	18.73
	1	18.54	18.66	18.58	18.68
	2	18.64	18.80	18.75	18.78
	3	18.58	18.79	18.70	18.80
Total MIMO Power Spectral Density (mW/MHz)		288.65	300.89	293.56	299.59
Total MIMO Power Spectral Density (dBm/MHz)		24.60	24.78	24.68	24.77
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.60	36.78	36.68	36.77
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.40	-0.22	-0.32	-0.23

Table 8-27. Power Spectral Density Table (LTE_B48_4C_15M+20M+20M+20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.80	18.72	18.69	18.81
	1	18.85	18.90	18.82	18.96
	2	18.68	18.62	18.61	18.80
	3	18.78	19.21	18.74	18.91
Total MIMO Power Spectral Density (mW/MHz)		301.84	308.30	297.58	308.34
Total MIMO Power Spectral Density (dBm/MHz)		24.80	24.89	24.74	24.89
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.80	36.89	36.74	36.89
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.20	-0.11	-0.26	-0.11
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.63	18.71	18.94	18.62
	1	18.99	19.09	19.10	19.04
	2	18.59	18.67	18.70	18.59
	3	19.23	19.18	19.00	19.02
Total MIMO Power Spectral Density (mW/MHz)		308.28	311.81	313.24	305.18
Total MIMO Power Spectral Density (dBm/MHz)		24.89	24.94	24.96	24.85
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.89	36.94	36.96	36.85
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.11	-0.06	-0.04	-0.15
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.50	18.74	18.63	18.62
	1	18.81	18.93	18.84	18.88
	2	18.55	18.78	18.60	18.59
	3	18.61	18.83	18.65	18.69
Total MIMO Power Spectral Density (mW/MHz)		291.11	304.82	295.40	296.31
Total MIMO Power Spectral Density (dBm/MHz)		24.64	24.84	24.70	24.72
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.64	36.84	36.70	36.72
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.36	-0.16	-0.30	-0.28

Table 8-28. Power Spectral Density Table (LTE_B48_4C_20M+20M+20M+20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.79	20.85	20.82	20.88
	1	20.71	20.78	20.69	20.75
	2	20.99	20.68	20.71	20.80
	3	20.69	20.74	20.68	20.82
Total MIMO Power Spectral Density (mW/MHz)		480.54	476.99	472.82	482.40
Total MIMO Power Spectral Density (dBm/MHz)		26.82	26.79	26.75	26.83
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.82	36.79	36.75	36.83
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.18	-0.21	-0.25	-0.17
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.90	20.73	20.86	20.84
	1	20.68	20.61	20.73	20.85
	2	20.75	20.52	20.83	20.85
	3	20.72	20.62	20.82	20.85
Total MIMO Power Spectral Density (mW/MHz)		476.83	461.35	481.96	486.22
Total MIMO Power Spectral Density (dBm/MHz)		26.78	26.64	26.83	26.87
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.78	36.64	36.83	36.87
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.22	-0.36	-0.17	-0.13
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.88	20.78	20.84	20.82
	1	20.81	20.76	20.90	20.82
	2	20.80	20.80	20.88	20.83
	3	20.82	20.76	20.90	20.87
Total MIMO Power Spectral Density (mW/MHz)		484.03	478.09	489.74	484.61
Total MIMO Power Spectral Density (dBm/MHz)		26.85	26.80	26.90	26.85
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.85	36.80	36.90	36.85
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.15	-0.20	-0.10	-0.15

Table 8-29. Power Spectral Density Table (NR_n48_1C_10M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.28	20.54	20.58	20.54
	1	20.29	20.47	20.55	20.56
	2	20.42	20.70	20.75	20.74
	3	20.51	20.74	20.78	20.80
Total MIMO Power Spectral Density (mW/MHz)		436.23	460.80	466.20	465.64
Total MIMO Power Spectral Density (dBm/MHz)		26.40	26.64	26.69	26.68
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.40	36.64	36.69	36.68
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.60	-0.36	-0.31	-0.32
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.56	20.45	20.68	20.63
	1	20.47	20.43	20.67	20.60
	2	20.22	20.24	20.46	20.39
	3	20.42	20.40	20.55	20.49
Total MIMO Power Spectral Density (mW/MHz)		440.54	436.65	458.31	451.77
Total MIMO Power Spectral Density (dBm/MHz)		26.44	26.40	26.61	26.55
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.44	36.40	36.61	36.55
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.56	-0.60	-0.39	-0.45
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.34	20.30	20.43	20.43
	1	20.41	20.57	20.49	20.41
	2	20.74	20.92	20.84	20.97
	3	20.62	20.86	20.80	20.87
Total MIMO Power Spectral Density (mW/MHz)		452.02	466.81	463.70	467.53
Total MIMO Power Spectral Density (dBm/MHz)		26.55	26.69	26.66	26.70
Ant. Gain (dBi)		10.00	10.00	10.00	10.00
e.i.r.p PSD (dBm/MHz)		36.55	36.69	36.66	36.70
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.45	-0.31	-0.34	-0.30

Table 8-30. Power Spectral Density Table (NR_n48_1C_20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.91	19.90	19.92	19.93
	1	19.96	20.01	19.85	19.98
	2	19.87	19.90	19.81	19.89
	3	19.58	19.71	19.55	19.64
Total MIMO Power Spectral Density (mW/MHz)		384.69	389.35	380.73	387.39
Total MIMO Power Spectral Density (dBm/MHz)		25.85	25.90	25.81	25.88
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.85	36.90	36.81	36.88
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.15	-0.10	-0.19	-0.12
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	20.00	19.91	19.96	20.01
	1	19.72	19.87	19.83	19.76
	2	19.91	19.94	19.92	19.95
	3	19.73	19.69	19.77	19.78
Total MIMO Power Spectral Density (mW/MHz)		385.88	386.60	388.20	388.75
Total MIMO Power Spectral Density (dBm/MHz)		25.86	25.87	25.89	25.90
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.86	36.87	36.89	36.90
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.14	-0.13	-0.11	-0.10
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.86	19.87	19.80	19.88
	1	19.80	19.87	19.92	19.99
	2	19.97	20.04	19.78	19.90
	3	19.76	19.78	19.63	19.77
Total MIMO Power Spectral Density (mW/MHz)		386.48	390.02	380.63	389.68
Total MIMO Power Spectral Density (dBm/MHz)		25.87	25.91	25.81	25.91
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.87	36.91	36.81	36.91
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.13	-0.09	-0.19	-0.09

Table 8-31. Power Spectral Density Table (NR_n48_1C_30M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.70	19.79	19.83	19.85
	1	19.74	19.76	19.62	19.74
	2	19.86	20.04	20.05	20.06
	3	19.76	19.80	19.82	20.03
Total MIMO Power Spectral Density (mW/MHz)		378.96	386.21	384.83	393.06
Total MIMO Power Spectral Density (dBm/MHz)		25.79	25.87	25.85	25.94
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.79	36.87	36.85	36.94
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.21	-0.13	-0.15	-0.06
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.38	19.75	19.90	19.86
	1	19.40	19.58	19.90	20.02
	2	19.76	19.75	20.00	20.04
	3	19.54	19.93	19.95	19.84
Total MIMO Power Spectral Density (mW/MHz)		358.51	377.80	394.32	394.57
Total MIMO Power Spectral Density (dBm/MHz)		25.55	25.77	25.96	25.96
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.55	36.77	36.96	36.96
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.45	-0.23	-0.04	-0.04
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.13	19.24	19.37	19.29
	1	19.15	19.20	19.40	19.36
	2	19.49	19.67	19.80	19.40
	3	19.31	19.52	19.66	19.40
Total MIMO Power Spectral Density (mW/MHz)		338.17	349.41	361.52	345.49
Total MIMO Power Spectral Density (dBm/MHz)		25.29	25.43	25.58	25.38
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.29	36.43	36.58	36.38
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.71	-0.57	-0.42	-0.62

Table 8-32. Power Spectral Density Table (NR_n48_1C_40M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K21101306-R4.A3L	Test Dates: 10/20/2021 – 04/05/2022	EUT Type: RRU(RT4401)		Page 61 of 286	

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.83	19.94	19.89	19.87
	1	19.88	19.94	19.82	19.84
	2	19.93	19.98	19.99	19.98
	3	19.88	19.96	19.94	19.94
Total MIMO Power Spectral Density (mW/MHz)		388.98	395.97	391.79	391.81
Total MIMO Power Spectral Density (dBm/MHz)		25.90	25.98	25.93	25.93
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.90	36.98	36.93	36.93
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.10	-0.02	-0.07	-0.07
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.69	19.86	19.82	19.89
	1	19.77	19.96	19.93	19.89
	2	19.77	19.84	19.92	19.88
	3	19.75	19.79	19.86	19.86
Total MIMO Power Spectral Density (mW/MHz)		377.14	387.53	389.34	389.23
Total MIMO Power Spectral Density (dBm/MHz)		25.76	25.88	25.90	25.90
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.76	36.88	36.90	36.90
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.24	-0.12	-0.10	-0.10
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.93	19.84	19.74	19.82
	1	19.85	19.80	19.79	19.78
	2	19.80	19.94	19.88	19.89
	3	19.88	19.81	19.89	19.88
Total MIMO Power Spectral Density (mW/MHz)		387.80	386.23	384.06	385.71
Total MIMO Power Spectral Density (dBm/MHz)		25.89	25.87	25.84	25.86
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.89	36.87	36.84	36.86
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.11	-0.13	-0.16	-0.14

Table 8-33. Power Spectral Density Table (NR_n48_2C_10M+10M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.88	19.92	19.95	19.83
	1	19.94	19.96	19.81	19.83
	2	19.91	19.97	19.98	19.89
	3	19.86	19.91	19.93	19.94
Total MIMO Power Spectral Density (mW/MHz)		390.68	394.70	392.42	388.25
Total MIMO Power Spectral Density (dBm/MHz)		25.92	25.96	25.94	25.89
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.92	36.96	36.94	36.89
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.08	-0.04	-0.06	-0.11
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.83	19.89	19.89	19.90
	1	19.85	19.80	19.90	19.99
	2	19.85	19.98	19.98	19.96
	3	19.82	19.95	19.82	19.89
Total MIMO Power Spectral Density (mW/MHz)		385.31	391.51	390.86	394.24
Total MIMO Power Spectral Density (dBm/MHz)		25.86	25.93	25.92	25.96
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.86	36.93	36.92	36.96
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.14	-0.07	-0.08	-0.04
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.79	19.69	19.72	19.84
	1	19.80	19.87	19.67	19.72
	2	19.91	19.89	19.80	19.78
	3	19.84	19.76	19.88	19.79
Total MIMO Power Spectral Density (mW/MHz)		385.07	382.39	379.41	380.24
Total MIMO Power Spectral Density (dBm/MHz)		25.86	25.83	25.79	25.80
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.86	36.83	36.79	36.80
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.14	-0.17	-0.21	-0.20

Table 8-34. Power Spectral Density Table (NR_n48_2C_10M+20M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.00	18.81	19.00	18.93
	1	18.96	18.93	18.93	18.93
	2	18.93	18.81	18.94	18.89
	3	18.90	18.80	18.97	18.91
Total MIMO Power Spectral Density (mW/MHz)		313.73	306.10	314.83	311.52
Total MIMO Power Spectral Density (dBm/MHz)		24.97	24.86	24.98	24.93
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.97	36.86	36.98	36.93
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.03	-0.14	-0.02	-0.07
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.87	18.98	18.93	18.94
	1	18.95	19.03	19.02	19.01
	2	18.82	18.86	18.87	18.91
	3	18.85	18.78	18.91	18.97
Total MIMO Power Spectral Density (mW/MHz)		308.49	311.44	312.96	314.50
Total MIMO Power Spectral Density (dBm/MHz)		24.89	24.93	24.95	24.98
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.89	36.93	36.95	36.98
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.11	-0.07	-0.05	-0.02
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.88	18.80	19.01	18.86
	1	18.93	18.90	18.99	18.92
	2	18.77	18.84	18.85	18.75
	3	18.71	18.73	18.84	18.71
Total MIMO Power Spectral Density (mW/MHz)		305.05	304.51	312.04	303.96
Total MIMO Power Spectral Density (dBm/MHz)		24.84	24.84	24.94	24.83
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.84	36.84	36.94	36.83
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.16	-0.16	-0.06	-0.17

Table 8-36. Power Spectral Density Table (NR_n48_2C_10M+30M)

FCC: A3LRT4401-48A1	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.91	19.02	18.92	18.90
	1	18.96	18.88	18.92	18.90
	2	18.96	18.91	18.95	18.92
	3	18.98	18.95	18.97	19.02
Total MIMO Power Spectral Density (mW/MHz)		314.52	313.30	313.38	313.03
Total MIMO Power Spectral Density (dBm/MHz)		24.98	24.96	24.96	24.96
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.98	36.96	36.96	36.96
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.02	-0.04	-0.04	-0.04
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.86	18.83	18.95	18.97
	1	19.08	18.98	19.06	18.97
	2	19.05	18.95	18.82	18.91
	3	18.81	18.90	18.77	18.93
Total MIMO Power Spectral Density (mW/MHz)		314.13	311.58	310.64	313.61
Total MIMO Power Spectral Density (dBm/MHz)		24.97	24.94	24.92	24.96
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.97	36.94	36.92	36.96
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.03	-0.06	-0.08	-0.04
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.89	18.70	18.81	18.85
	1	19.00	18.77	18.88	18.90
	2	19.04	18.80	18.91	18.97
	3	18.88	18.92	19.12	19.07
Total MIMO Power Spectral Density (mW/MHz)		314.23	303.45	312.94	313.94
Total MIMO Power Spectral Density (dBm/MHz)		24.97	24.82	24.95	24.97
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.97	36.82	36.95	36.97
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.03	-0.18	-0.05	-0.03

Table 8-36. Power Spectral Density Table (NR_n48_2C_10M+40M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.98	18.97	18.75	18.81
	1	18.90	18.98	18.97	18.83
	2	18.88	18.77	18.88	18.86
	3	18.92	18.73	19.04	18.91
Total MIMO Power Spectral Density (mW/MHz)		312.02	307.95	311.20	307.20
Total MIMO Power Spectral Density (dBm/MHz)		24.94	24.88	24.93	24.87
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.94	36.88	36.93	36.87
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.06	-0.12	-0.07	-0.13
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.87	18.92	18.84	18.80
	1	19.01	18.90	18.98	18.83
	2	18.72	19.00	19.04	19.08
	3	19.00	18.98	18.95	18.91
Total MIMO Power Spectral Density (mW/MHz)		310.47	314.02	314.28	310.97
Total MIMO Power Spectral Density (dBm/MHz)		24.92	24.97	24.97	24.93
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.92	36.97	36.97	36.93
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.08	-0.03	-0.03	-0.07
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.87	19.00	18.94	18.80
	1	18.81	19.06	19.07	18.79
	2	18.97	18.97	18.76	18.84
	3	19.10	18.81	18.90	18.95
Total MIMO Power Spectral Density (mW/MHz)		313.31	314.91	311.73	306.54
Total MIMO Power Spectral Density (dBm/MHz)		24.96	24.98	24.94	24.86
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.96	36.98	36.94	36.86
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.04	-0.02	-0.06	-0.14

Table 8-37. Power Spectral Density Table (NR_n48_2C_20M+40M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.84	18.85	19.02	18.95
	1	18.79	18.91	19.01	18.95
	2	18.88	18.81	18.93	18.98
	3	19.13	18.77	18.87	18.89
Total MIMO Power Spectral Density (mW/MHz)		311.57	305.87	314.70	313.54
Total MIMO Power Spectral Density (dBm/MHz)		24.94	24.86	24.98	24.96
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.94	36.86	36.98	36.96
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.06	-0.14	-0.02	-0.04
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.92	19.07	18.74	19.02
	1	18.83	19.02	18.85	18.90
	2	18.93	18.91	18.96	19.09
	3	18.99	18.84	18.91	18.81
Total MIMO Power Spectral Density (mW/MHz)		311.65	314.89	308.05	314.40
Total MIMO Power Spectral Density (dBm/MHz)		24.94	24.98	24.89	24.97
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.94	36.98	36.89	36.97
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.06	-0.02	-0.11	-0.03
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.98	18.99	18.86	19.08
	1	18.86	18.95	19.00	18.76
	2	18.87	18.83	18.87	18.90
	3	18.89	18.95	18.99	18.98
Total MIMO Power Spectral Density (mW/MHz)		310.55	312.65	312.63	312.64
Total MIMO Power Spectral Density (dBm/MHz)		24.92	24.95	24.95	24.95
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.92	36.95	36.95	36.95
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.08	-0.05	-0.05	-0.05

Table 8-38. Power Spectral Density Table (NR_n48_2C_30M+40M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.38	18.74	18.70	18.17
	1	18.44	18.77	18.53	18.22
	2	18.42	18.89	18.58	18.39
	3	18.41	18.75	18.51	18.10
Total MIMO Power Spectral Density (mW/MHz)		277.52	302.60	288.29	265.41
Total MIMO Power Spectral Density (dBm/MHz)		24.43	24.81	24.60	24.24
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.43	36.81	36.60	36.24
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.57	-0.19	-0.40	-0.76
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.61	18.52	18.77	18.75
	1	18.69	18.63	18.97	18.92
	2	18.67	18.61	18.88	18.79
	3	18.57	18.64	18.74	18.75
Total MIMO Power Spectral Density (mW/MHz)		292.04	289.68	306.29	303.78
Total MIMO Power Spectral Density (dBm/MHz)		24.65	24.62	24.86	24.83
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.65	36.62	36.86	36.83
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.35	-0.38	-0.14	-0.17
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.64	18.95	18.74	18.64
	1	18.55	18.81	18.76	18.71
	2	18.58	18.77	18.68	18.60
	3	18.56	18.70	18.64	18.59
Total MIMO Power Spectral Density (mW/MHz)		288.42	304.11	296.87	292.12
Total MIMO Power Spectral Density (dBm/MHz)		24.60	24.83	24.73	24.66
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.60	36.83	36.73	36.66
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.40	-0.17	-0.27	-0.34

Table 8-39. Power Spectral Density Table (NR_n48_2C_40M+40M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K21101306-R4.A3L	Test Dates: 10/20/2021 – 04/05/2022	EUT Type: RRU(RT4401)	Page 68 of 286	

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.82	19.71	19.82	19.78
	1	19.89	19.74	19.78	19.75
	2	19.86	19.71	19.86	19.81
	3	19.89	19.75	19.88	19.83
Total MIMO Power Spectral Density (mW/MHz)		387.86	375.50	385.04	381.39
Total MIMO Power Spectral Density (dBm/MHz)		25.89	25.75	25.86	25.81
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.89	36.75	36.86	36.81
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.11	-0.25	-0.14	-0.19
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.71	19.82	19.88	19.83
	1	19.76	19.90	19.94	19.93
	2	19.77	19.70	19.85	19.82
	3	19.75	19.73	19.82	19.82
Total MIMO Power Spectral Density (mW/MHz)		377.37	380.92	388.58	386.51
Total MIMO Power Spectral Density (dBm/MHz)		25.77	25.81	25.89	25.87
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.77	36.81	36.89	36.87
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.23	-0.19	-0.11	-0.13
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.87	19.66	19.67	19.91
	1	19.89	19.78	19.83	19.73
	2	19.90	19.69	19.80	19.77
	3	19.81	19.76	19.88	19.71
Total MIMO Power Spectral Density (mW/MHz)		387.88	375.29	381.73	380.26
Total MIMO Power Spectral Density (dBm/MHz)		25.89	25.74	25.82	25.80
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.89	36.74	36.82	36.80
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.11	-0.26	-0.18	-0.20

Table 8-40. Power Spectral Density Table (LTE_B48_1C + NR_n48_1C_10M+10M)

FCC: A3LRT4401-48A1	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.68	18.92	18.75	18.89
	1	18.68	18.85	18.84	18.87
	2	18.85	19.01	19.07	19.02
	3	18.93	19.05	19.04	18.99
Total MIMO Power Spectral Density (mW/MHz)		302.52	314.70	312.51	313.39
Total MIMO Power Spectral Density (dBm/MHz)		24.81	24.98	24.95	24.96
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.81	36.98	36.95	36.96
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.19	-0.02	-0.05	-0.04
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.79	18.77	18.73	18.80
	1	18.86	18.85	18.82	18.86
	2	18.83	19.08	18.89	19.00
	3	18.78	18.99	18.83	18.93
Total MIMO Power Spectral Density (mW/MHz)		304.45	312.28	304.61	310.30
Total MIMO Power Spectral Density (dBm/MHz)		24.84	24.95	24.84	24.92
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.84	36.95	36.84	36.92
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.16	-0.05	-0.16	-0.08
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.71	18.89	18.70	18.82
	1	18.55	18.79	18.57	18.69
	2	18.82	19.08	18.86	18.86
	3	18.70	18.99	18.79	18.77
Total MIMO Power Spectral Density (mW/MHz)		296.28	313.22	298.71	302.42
Total MIMO Power Spectral Density (dBm/MHz)		24.72	24.96	24.75	24.81
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.72	36.96	36.75	36.81
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.28	-0.04	-0.25	-0.19

Table 8-41. Power Spectral Density Table (LTE_B48_1C + NR_n48_1C_20M+40M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.74	19.76	19.75	19.83
	1	19.89	19.88	19.88	19.83
	2	19.87	19.91	19.84	19.92
	3	19.87	19.89	19.88	19.92
Total MIMO Power Spectral Density (mW/MHz)		385.50	387.17	385.23	388.60
Total MIMO Power Spectral Density (dBm/MHz)		25.86	25.88	25.86	25.90
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.86	36.88	36.86	36.90
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.14	-0.12	-0.14	-0.10
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.61	19.89	19.88	19.87
	1	19.68	19.84	19.88	19.84
	2	19.78	19.86	19.84	19.85
	3	19.82	19.89	19.88	19.88
Total MIMO Power Spectral Density (mW/MHz)		375.26	388.21	388.27	387.42
Total MIMO Power Spectral Density (dBm/MHz)		25.74	25.89	25.89	25.88
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.74	36.89	36.89	36.88
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.26	-0.11	-0.11	-0.12
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	19.70	19.88	19.89	19.85
	1	19.71	19.84	19.81	19.78
	2	19.84	19.81	19.92	19.79
	3	19.79	19.83	19.88	19.85
Total MIMO Power Spectral Density (mW/MHz)		378.57	385.60	388.51	383.68
Total MIMO Power Spectral Density (dBm/MHz)		25.78	25.86	25.89	25.84
Ant. Gain (dBi)		11.00	11.00	11.00	11.00
e.i.r.p PSD (dBm/MHz)		36.78	36.86	36.89	36.84
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.22	-0.14	-0.11	-0.16

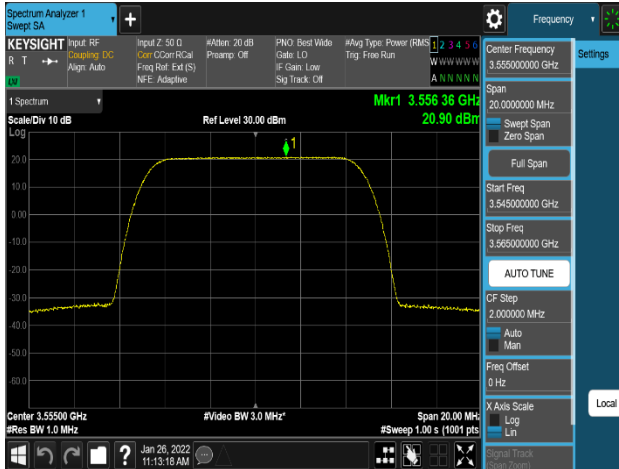
Table 8-42. Power Spectral Density Table (LTE_B48_2C + NR_n48_1C_10M+10M+10M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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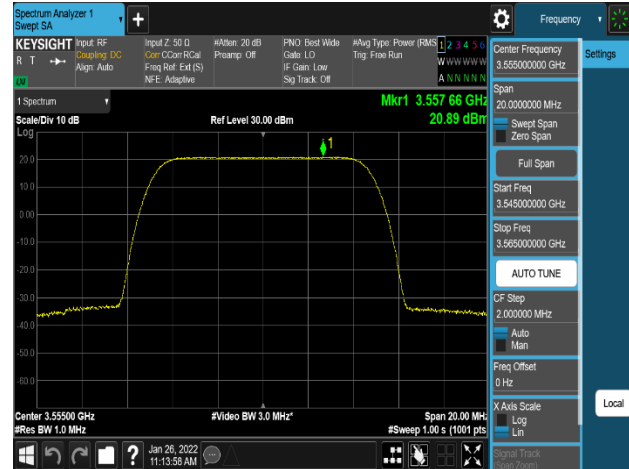
Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.73	18.86	18.78	18.82
	1	18.70	18.89	18.74	18.79
	2	18.81	18.96	18.97	18.82
	3	18.71	18.89	18.88	18.82
Total MIMO Power Spectral Density (mW/MHz)		299.01	310.49	306.34	304.43
Total MIMO Power Spectral Density (dBm/MHz)		24.76	24.92	24.86	24.83
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.76	36.92	36.86	36.83
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.24	-0.08	-0.14	-0.17
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.42	18.79	18.58	18.66
	1	18.57	18.95	18.69	18.79
	2	18.65	18.87	19.21	19.19
	3	18.57	18.72	19.10	19.10
Total MIMO Power Spectral Density (mW/MHz)		286.69	305.77	310.68	313.58
Total MIMO Power Spectral Density (dBm/MHz)		24.57	24.85	24.92	24.96
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.57	36.85	36.92	36.96
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.43	-0.15	-0.08	-0.04
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/MHz)	0	18.42	18.46	18.60	18.40
	1	18.50	18.50	18.64	18.51
	2	19.07	18.88	19.18	19.11
	3	18.95	18.81	19.20	19.00
Total MIMO Power Spectral Density (mW/MHz)		299.63	294.14	311.66	301.05
Total MIMO Power Spectral Density (dBm/MHz)		24.77	24.69	24.94	24.79
Ant. Gain (dBi)		12.00	12.00	12.00	12.00
e.i.r.p PSD (dBm/MHz)		36.77	36.69	36.94	36.79
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.23	-0.31	-0.06	-0.21

Table 8-43. Power Spectral Density Table (LTE_B48_2C + NR_n48_1C_20M+20M+40M)

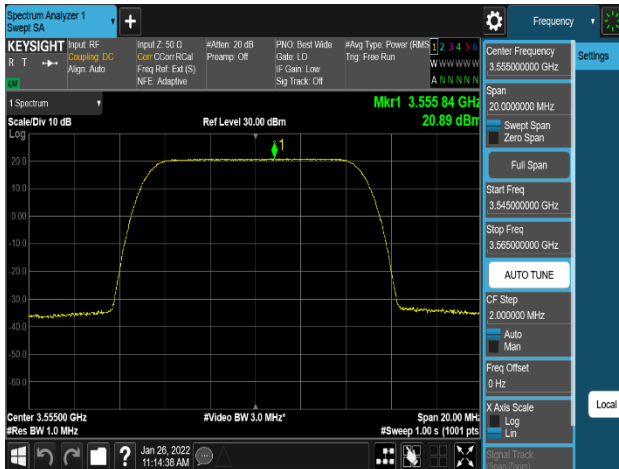
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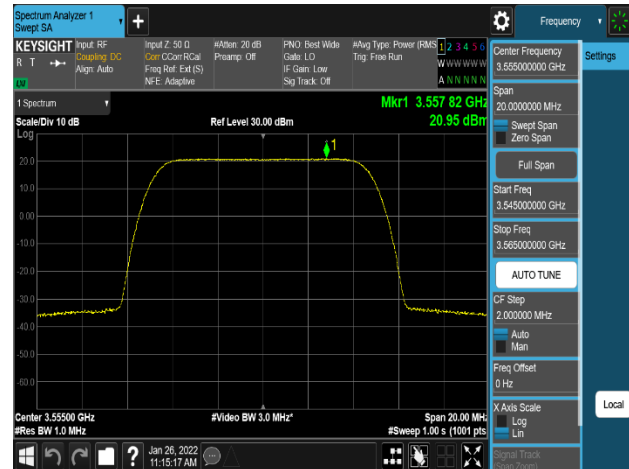
Plot 8-83. Power Spectral Density Plot
(LTE_B48_1C_10M_16QAM - Low Channel, Port 0)



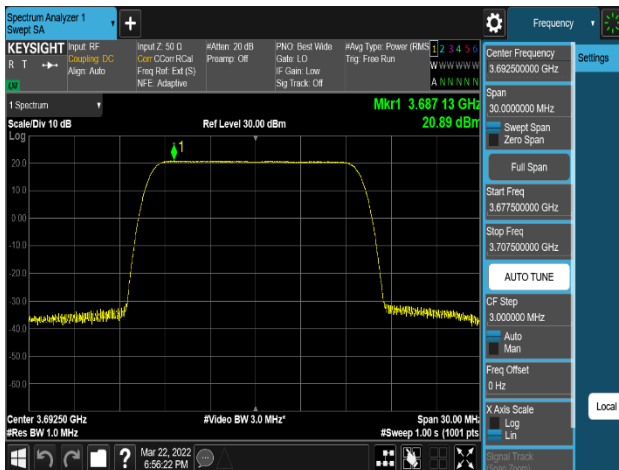
Plot 8-84. Power Spectral Density Plot
(LTE_B48_1C_10M_16QAM - Low Channel, Port 1)



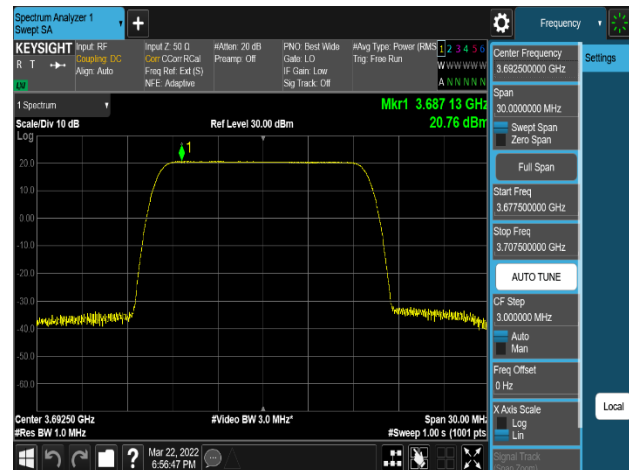
Plot 8-85. Power Spectral Density Plot
(LTE_B48_1C_10M_16QAM - Low Channel, Port 2)



Plot 8-86. Power Spectral Density Plot
(LTE_B48_1C_10M_16QAM - Low Channel, Port 3)



Plot 8-87. Power Spectral Density Plot
(LTE_B48_1C_15M_256QAM - High Channel, Port 0)



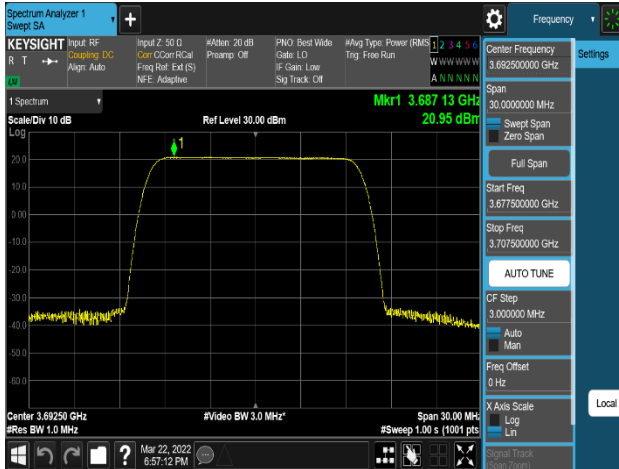
Plot 8-88. Power Spectral Density Plot
(LTE_B48_1C_15M_256QAM - High Channel, Port 1)

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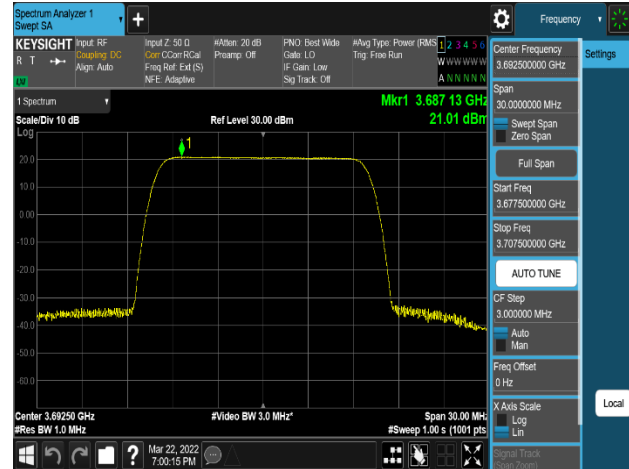
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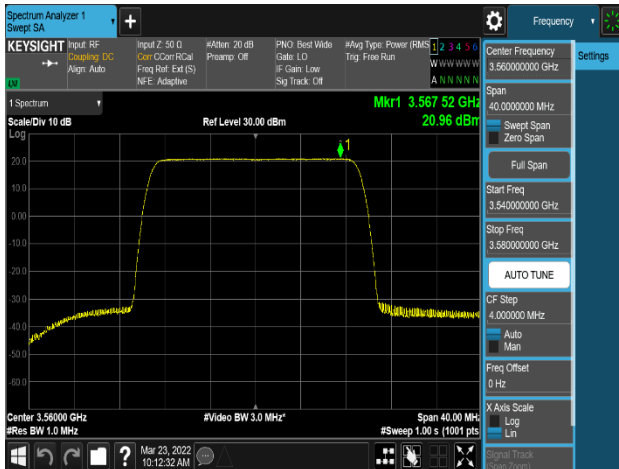
PK-QP-16-14 Rev.01



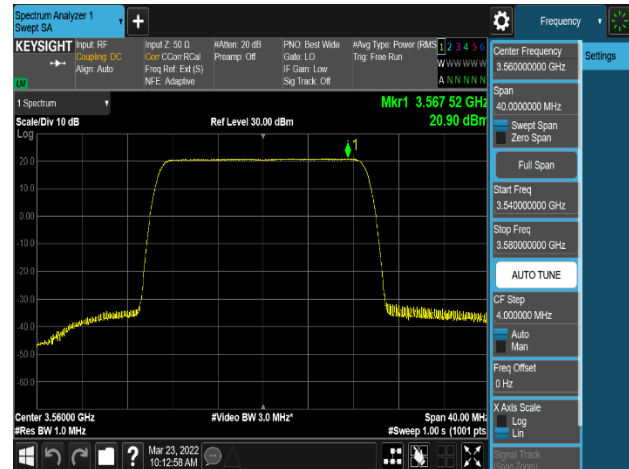
Plot 8-89. Power Spectral Density Plot
(LTE_B48_1C_15M_256QAM - High Channel, Port 2)



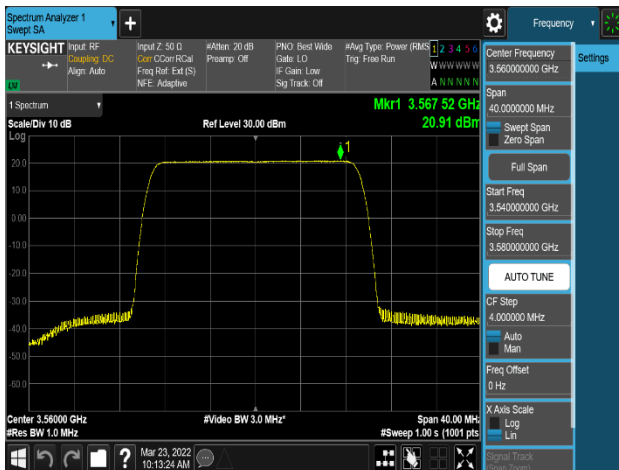
Plot 8-90. Power Spectral Density Plot
(LTE_B48_1C_15M_256QAM - High Channel, Port 3)



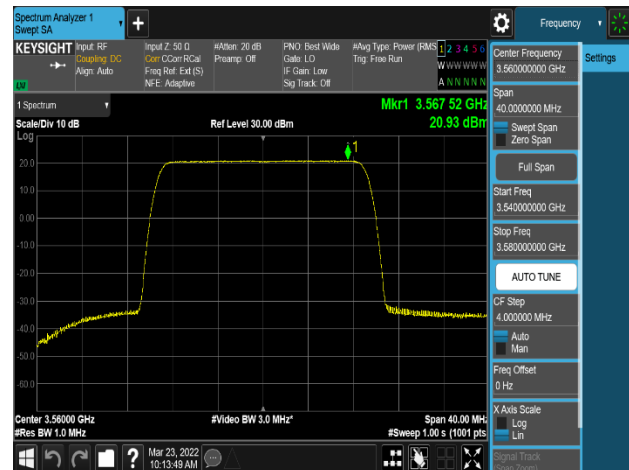
Plot 8-91. Power Spectral Density Plot
(LTE_B48_1C_20M_256QAM - Low Channel, Port 0)



Plot 8-92. Power Spectral Density Plot
(LTE_B48_1C_20M_256QAM - Low Channel, Port 1)

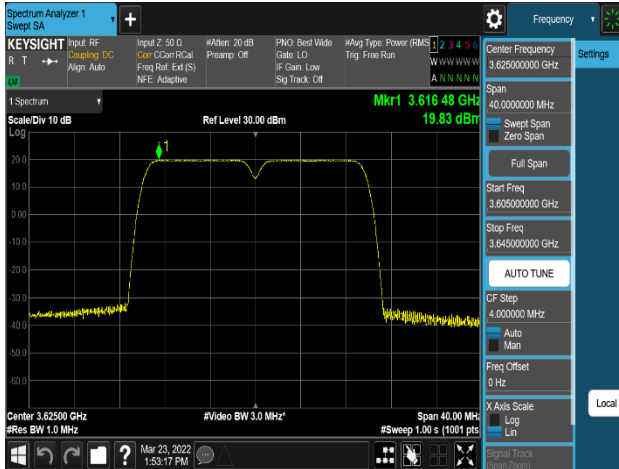


Plot 8-93. Power Spectral Density Plot
(LTE_B48_1C_20M_256QAM - Low Channel, Port 2)

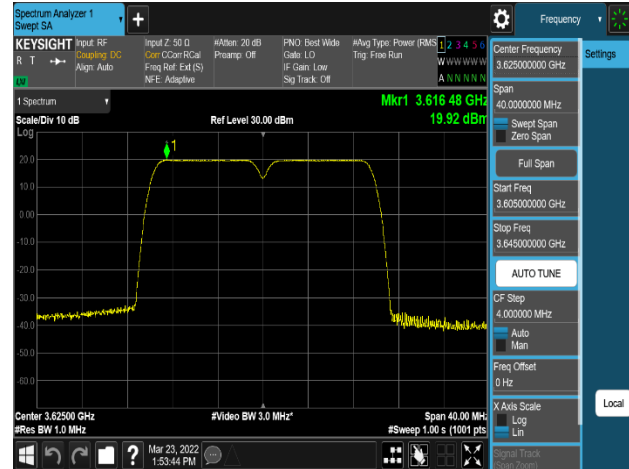


Plot 8-94. Power Spectral Density Plot
(LTE_B48_1C_20M_256QAM - Low Channel, Port 3)

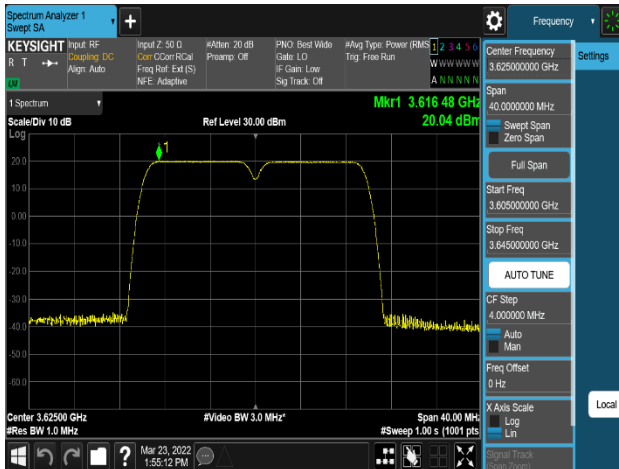
FCC: A3LRT4401-48A1	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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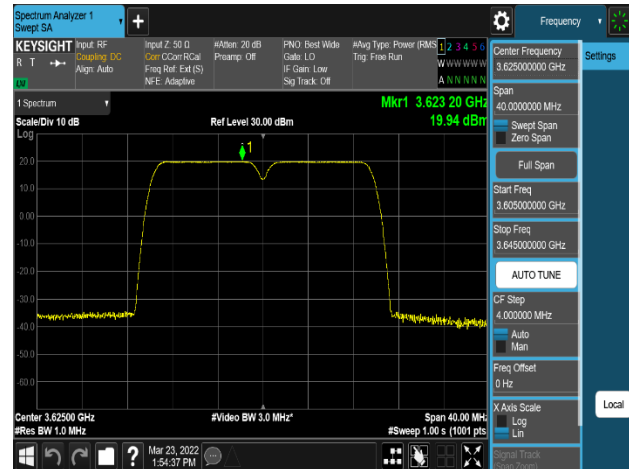
Plot 8-95. Power Spectral Density Plot
(LTE_B48_2C_10M+10M_64QAM - Mid Channel, Port 0)



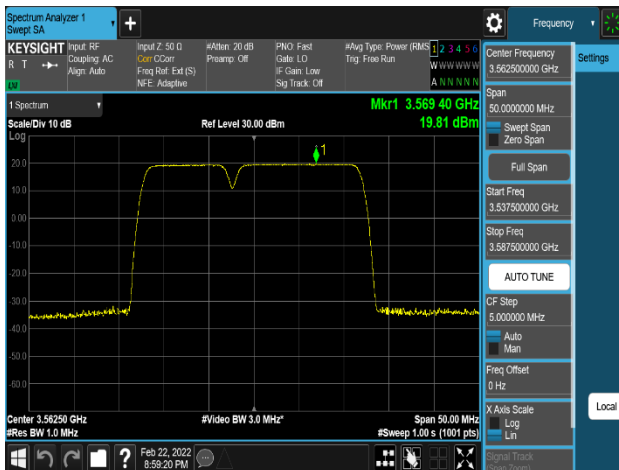
Plot 8-96. Power Spectral Density Plot
(LTE_B48_2C_10M+10M_64QAM - Mid Channel, Port 1)



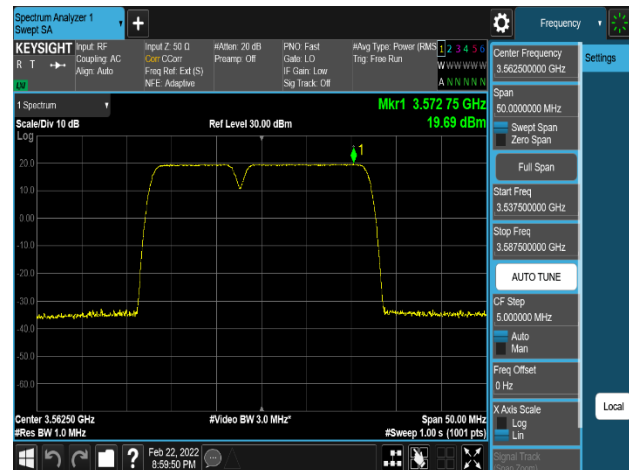
Plot 8-97. Power Spectral Density Plot
(LTE_B48_2C_10M+10M_64QAM - Mid Channel, Port 2)



Plot 8-98. Power Spectral Density Plot
(LTE_B48_2C_10M+10M_64QAM - Mid Channel, Port 3)

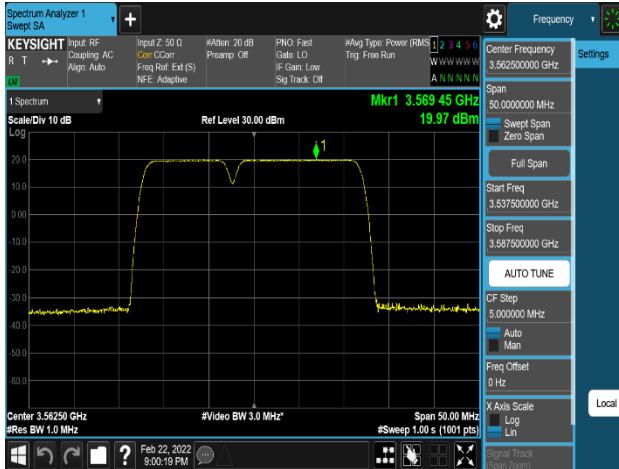


Plot 8-99. Power Spectral Density Plot
(LTE_B48_2C_10M+15M_16QAM - Mid Channel, Port 0)

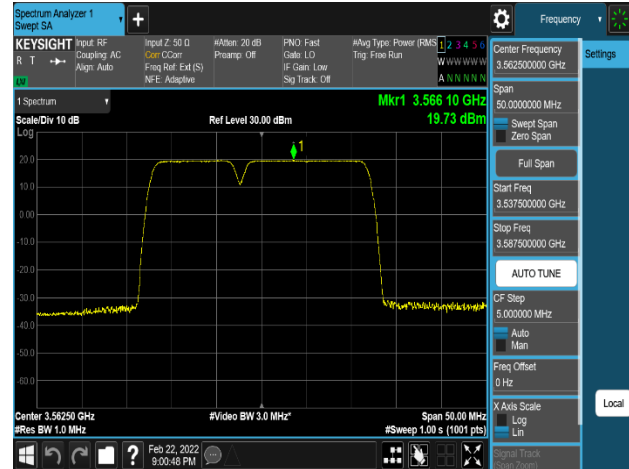


Plot 8-100. Power Spectral Density Plot
(LTE_B48_2C_10M+15M_16QAM - Mid Channel, Port 1)

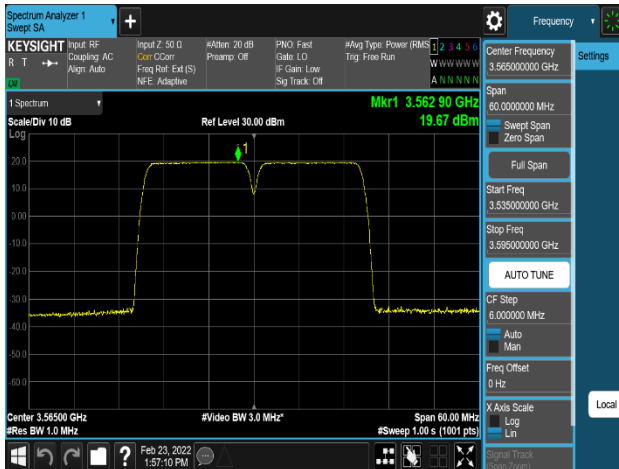
FCC: A3LRT4401-48A1	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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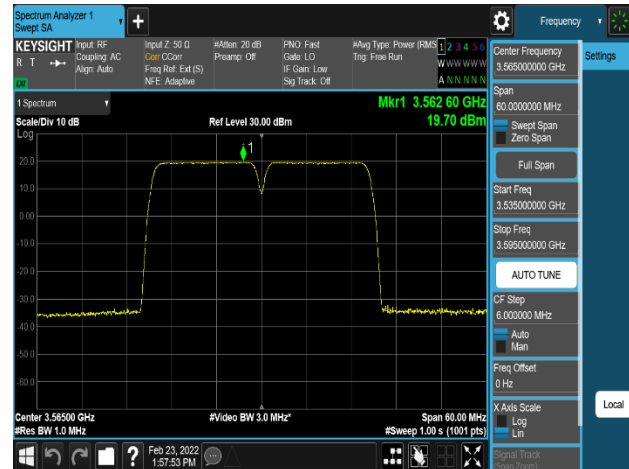
Plot 8-101. Power Spectral Density Plot
(LTE_B48_2C_10M+15M_16QAM - Mid Channel, Port 2)



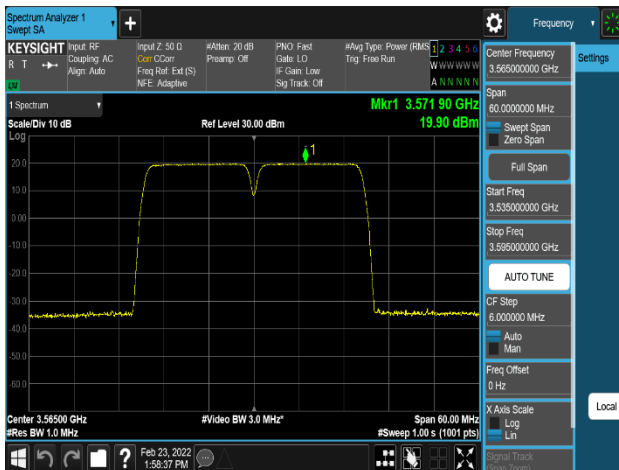
Plot 8-102. Power Spectral Density Plot
(LTE_B48_2C_10M+15M_16QAM - Mid Channel, Port 3)



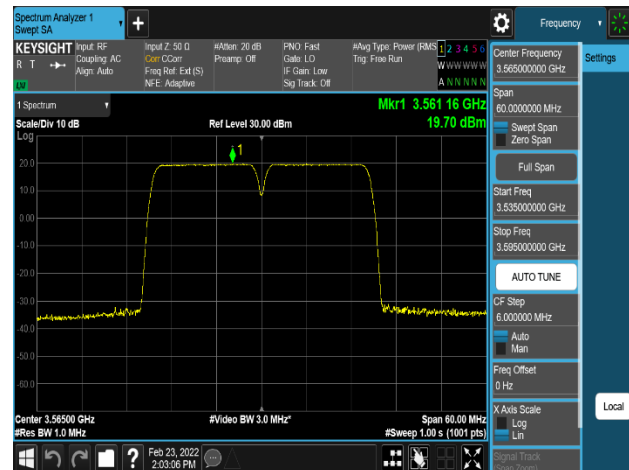
Plot 8-103. Power Spectral Density Plot
(LTE_B48_2C_15M+15M_16QAM - Low Channel, Port 0)



Plot 8-104. Power Spectral Density Plot
(LTE_B48_2C_15M+15M_16QAM - Low Channel, Port 1)

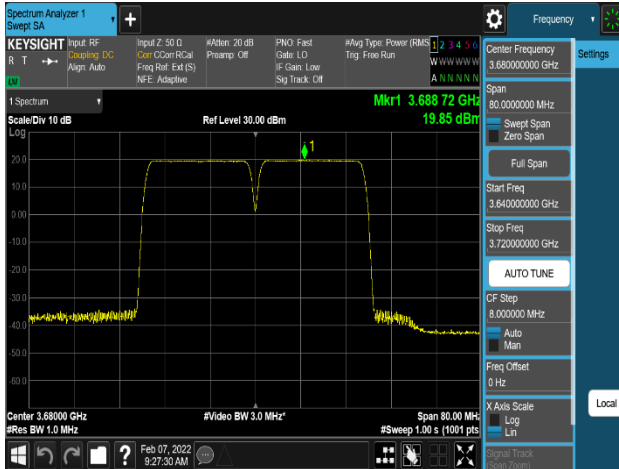


Plot 8-105. Power Spectral Density Plot
(LTE_B48_2C_15M+15M_16QAM - Low Channel, Port 2)

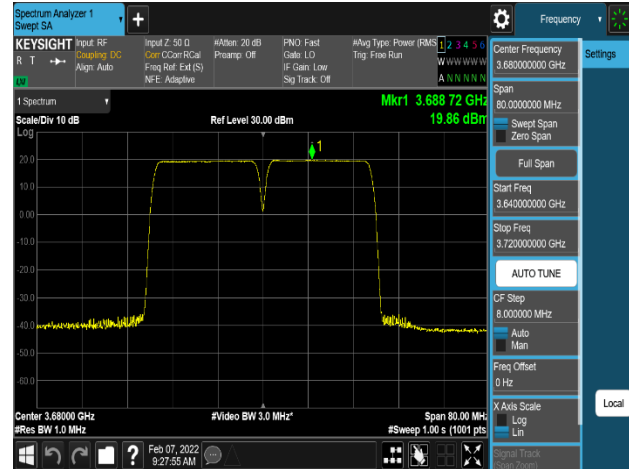


Plot 8-106. Power Spectral Density Plot
(LTE_B48_2C_15M+15M_16QAM - Low Channel, Port 3)

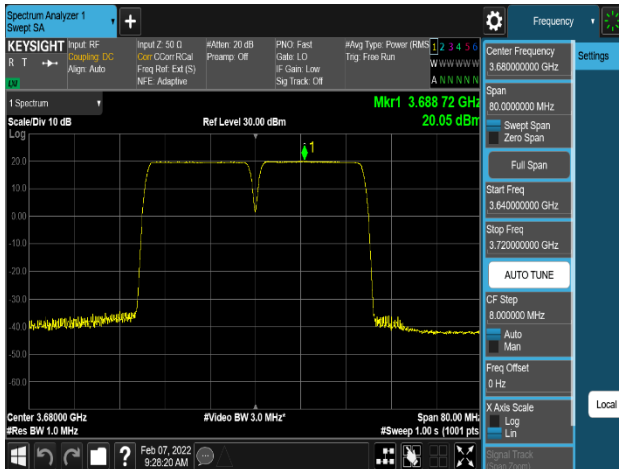
FCC: A3LRT4401-48A1	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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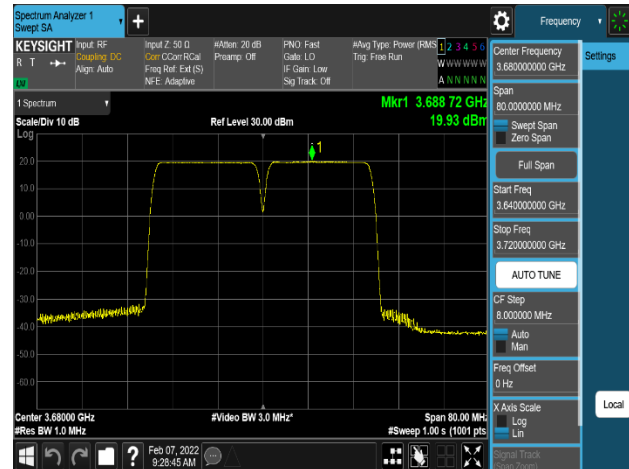
Plot 8-13. Power Spectral Density Plot
(LTE_B48_2C_20M+20M_256QAM - High Channel, Port 0)



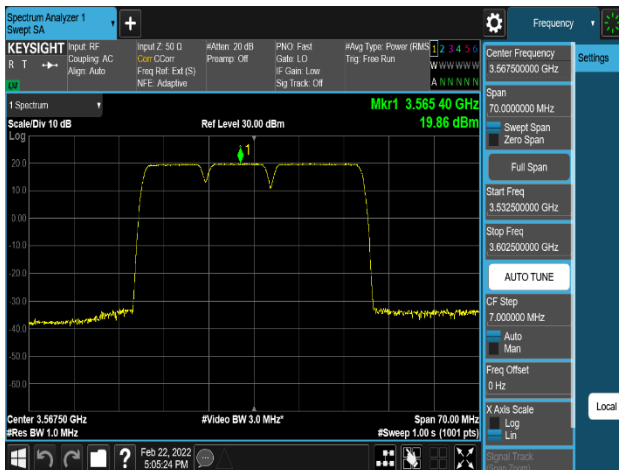
Plot 8-14. Power Spectral Density Plot
(LTE_B48_2C_20M+20M_256QAM - High Channel, Port 1)



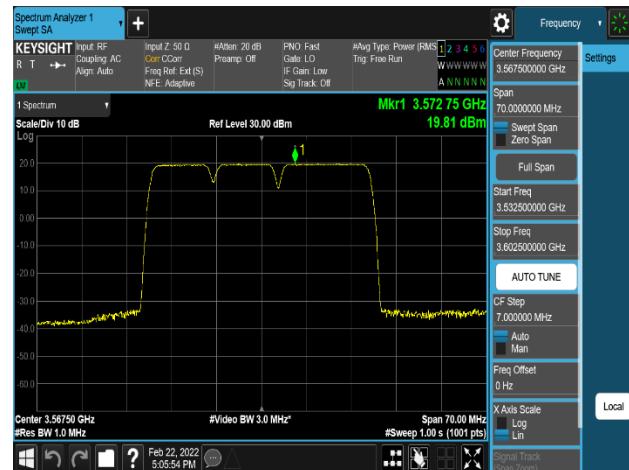
Plot 8-15. Power Spectral Density Plot
(LTE_B48_2C_20M+20M_256QAM - High Channel, Port 2)



Plot 8-110. Power Spectral Density Plot
(LTE_B48_2C_20M+20M_256QAM - High Channel, Port 3)

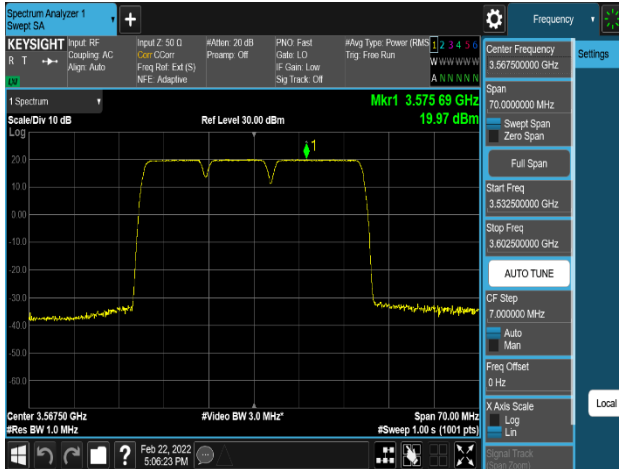


Plot 8-111. Power Spectral Density Plot
(LTE_B48_3C_10M+10M+15M_16QAM-Low Channel, Port 0)

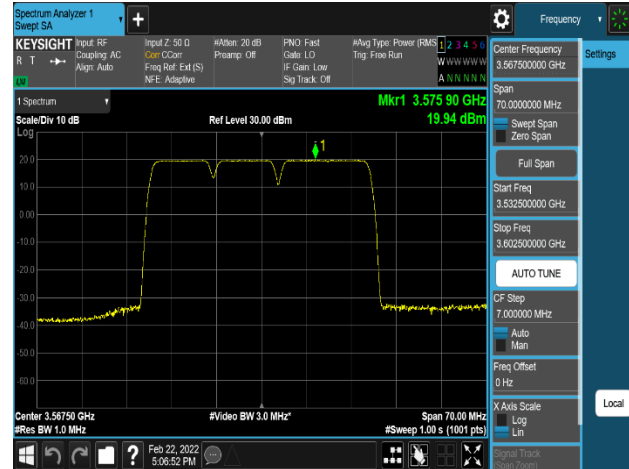


Plot 8-112. Power Spectral Density Plot
(LTE_B48_3C_10M+10M+15M_16QAM-Low Channel, Port 1)

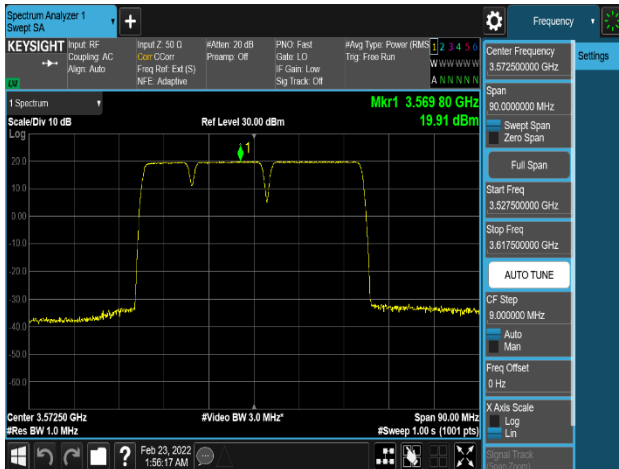
FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		 Approved by: Technical Manager
Test Report S/N: 8K21101306-R4.A3L	Test Dates: 10/20/2021 – 04/05/2022	EUT Type: RRU(RT4401)		Page 77 of 286



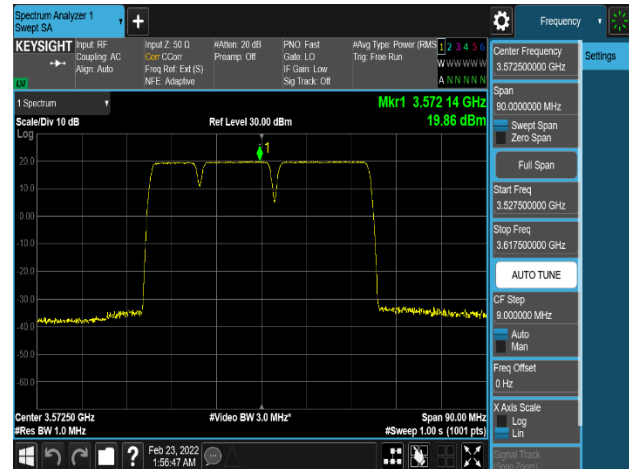
Plot 8-113. Power Spectral Density Plot
(LTE_B48_3C_10M+10M+15M_16QAM-Low Channel, Port 2)



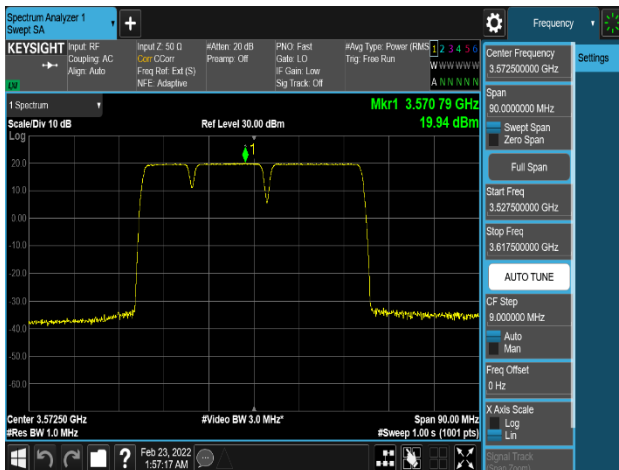
Plot 8-114. Power Spectral Density Plot
(LTE_B48_3C_10M+10M+15M_16QAM-Low Channel, Port 3)



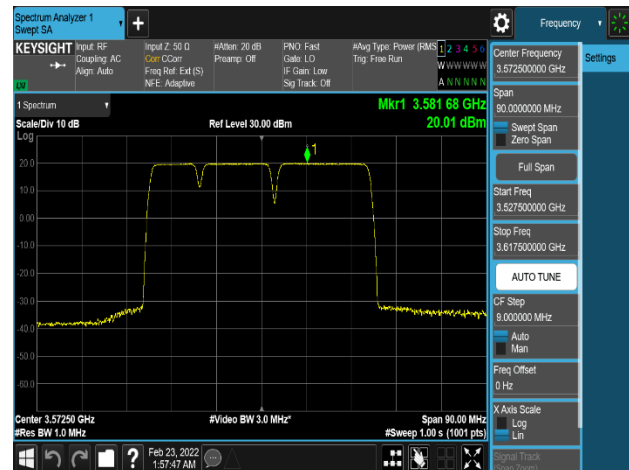
Plot 8-115. Power Spectral Density Plot
(LTE_B48_3C_10M+15M+20M_16QAM-Low Channel, Port 0)



Plot 8-116. Power Spectral Density Plot
(LTE_B48_3C_10M+15M+20M_16QAM-Low Channel, Port 1)



Plot 8-117. Power Spectral Density Plot
(LTE_B48_3C_10M+15M+20M_16QAM-Low Channel, Port 2)



Plot 8-118. Power Spectral Density Plot
(LTE_B48_3C_10M+15M+20M_16QAM-Low Channel, Port 3)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)		 Approved by: Technical Manager
Test Report S/N: 8K21101306-R4.A3L	Test Dates: 10/20/2021 – 04/05/2022	EUT Type: RRU(RT4401)		Page 78 of 286