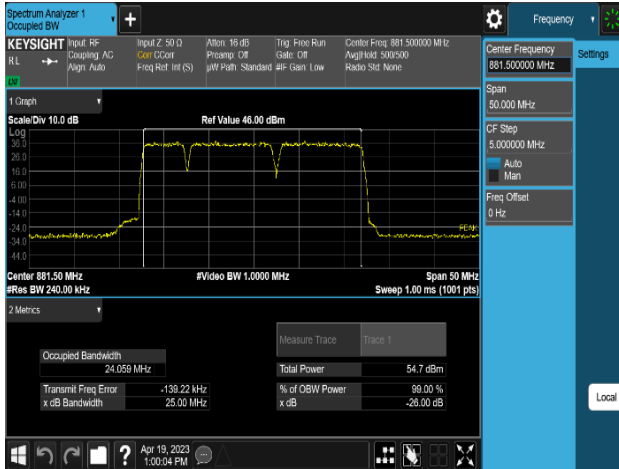
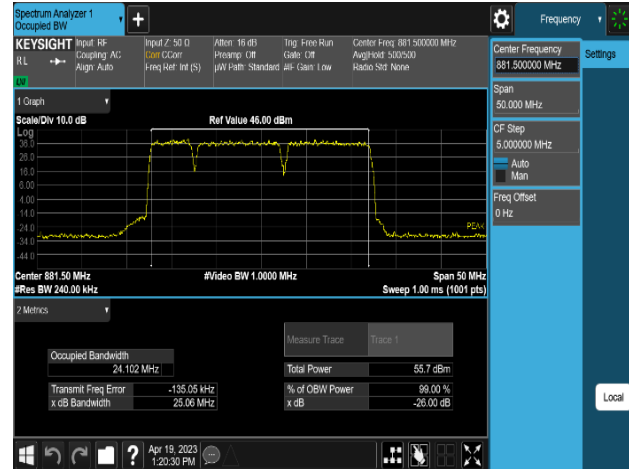
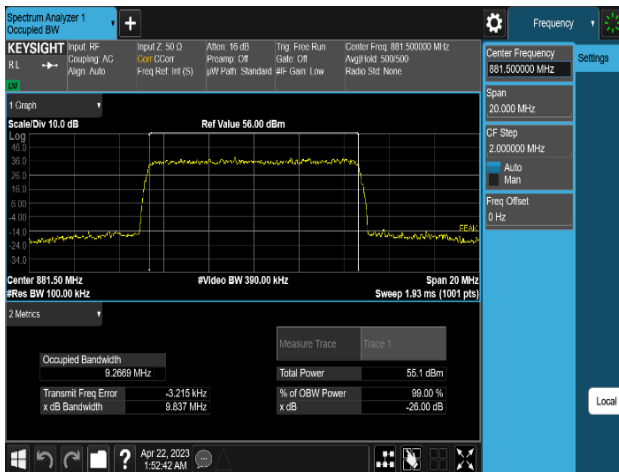




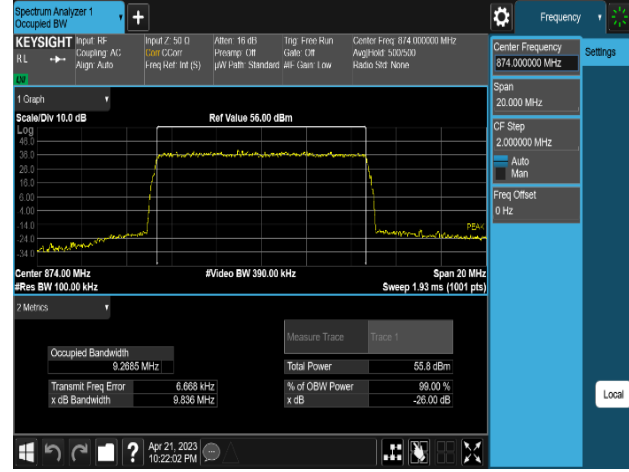
Plot 8-53. Occupied Bandwidth Plot
(LTE B5_3C_5M+10M+10M_QPSK – Mid Channel_4T, Port 1)



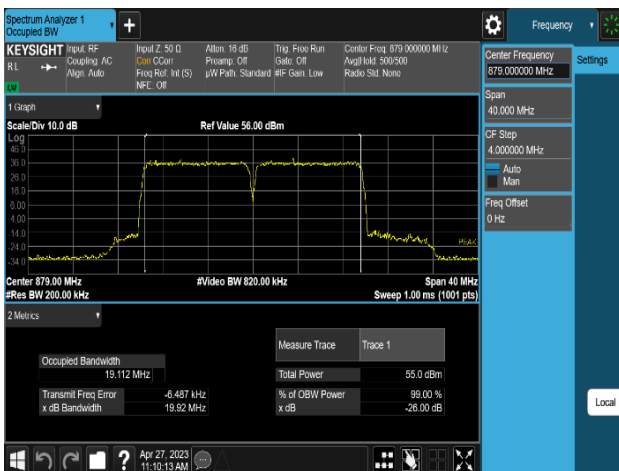
Plot 8-54. Occupied Bandwidth Plot
(LTE B5_3C_5M+10M+10M_16QAM – Mid Channel_4T, Port 1)



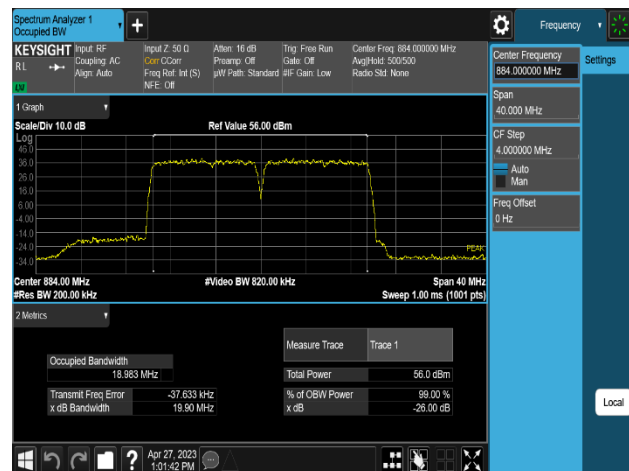
Plot 8-55. Occupied Bandwidth Plot
(DSS B(n)5_1C_10M_QPSK - Mid Channel_4T, Port 2)



Plot 8-56. Occupied Bandwidth Plot
(DSS B(n)5_1C_10M_64QAM - Low Channel_4T, Port 0)

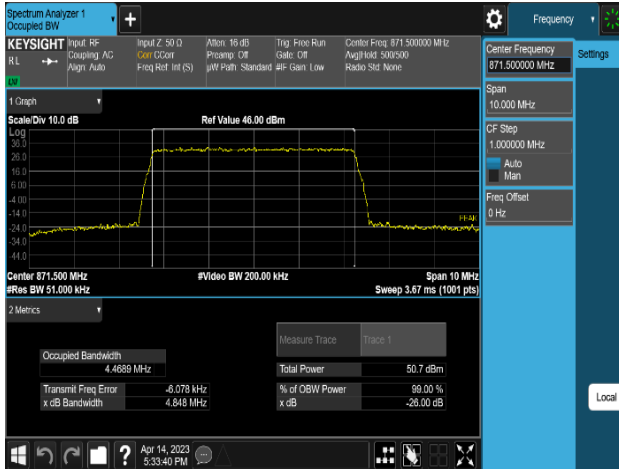


Plot 8-57. Occupied Bandwidth Plot
(DSS B(n)5_2C_10M+10M_2C_QPSK - Low Channel_4T, Port 2)

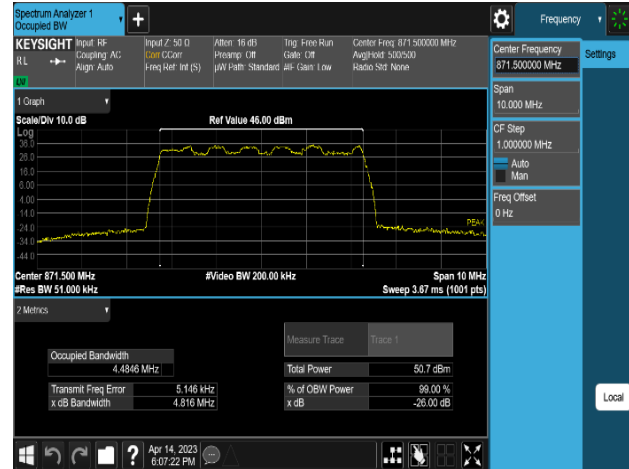


Plot 8-58. Occupied Bandwidth Plot
(DSS B(n)5_2C_10M+10M_16QAM - High Channel_4T, Port 1)

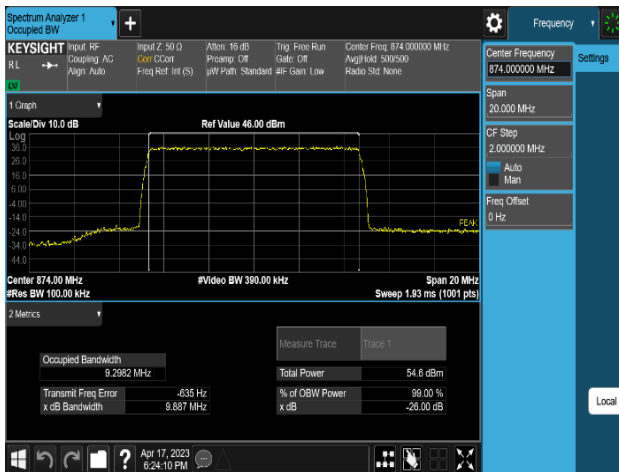
FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 46 of 394



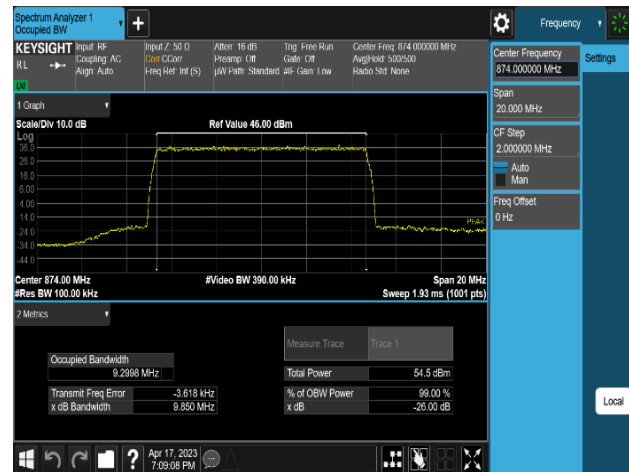
Plot 8-59. Occupied Bandwidth Plot
(NR n5_1C_5M_QPSK - Low Channel_4T, Port 0)



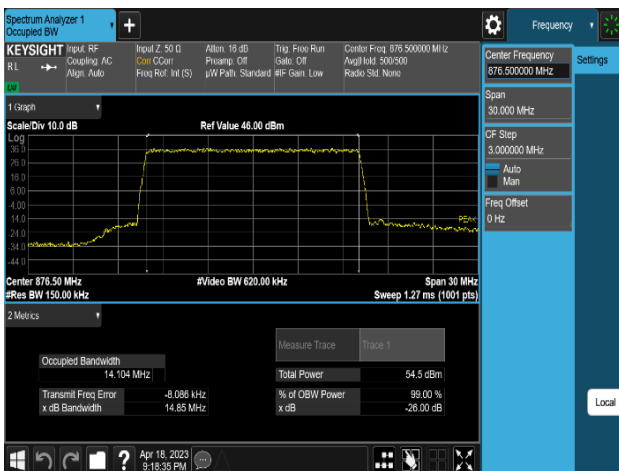
Plot 8-60. Occupied Bandwidth Plot
(NR n5_1C_5M_16QAM - Low Channel_4T, Port 2)



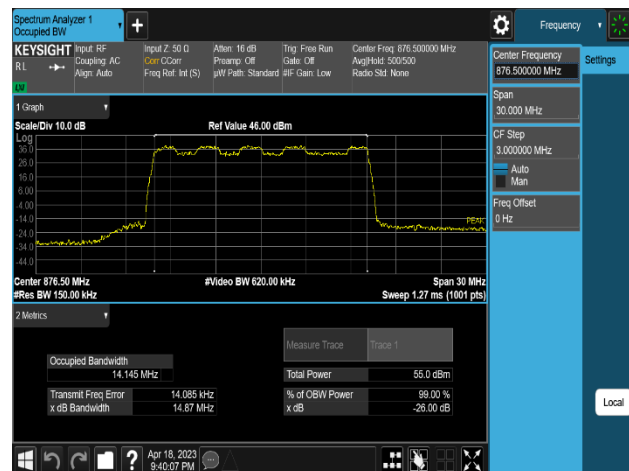
Plot 8-61. Occupied Bandwidth Plot
(NR n5_1C_10M_QPSK - Low Channel_4T, Port 0)



Plot 8-62. Occupied Bandwidth Plot
(NR n5_1C_10M_64QAM - Low Channel_4T, Port 1)

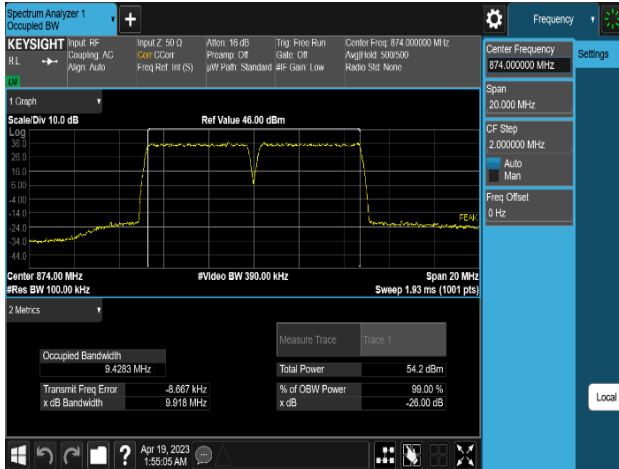


Plot 8-63. Occupied Bandwidth Plot
(NR n5_1C_15M_QPSK - Low Channel_4T, Port 2)

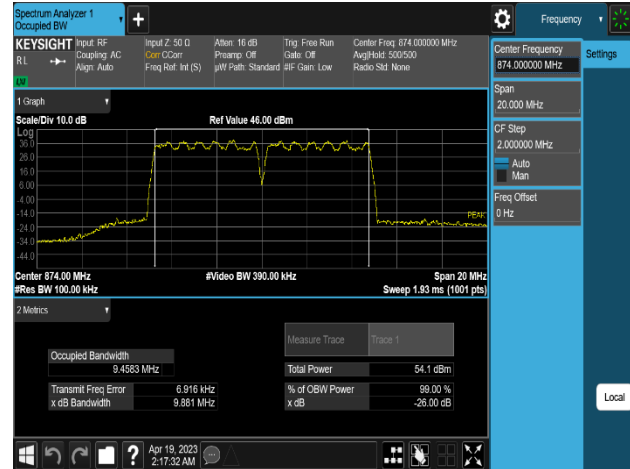


Plot 8-64. Occupied Bandwidth Plot
(NR n5_1C_15M_16QAM - Low Channel_4T, Port 0)

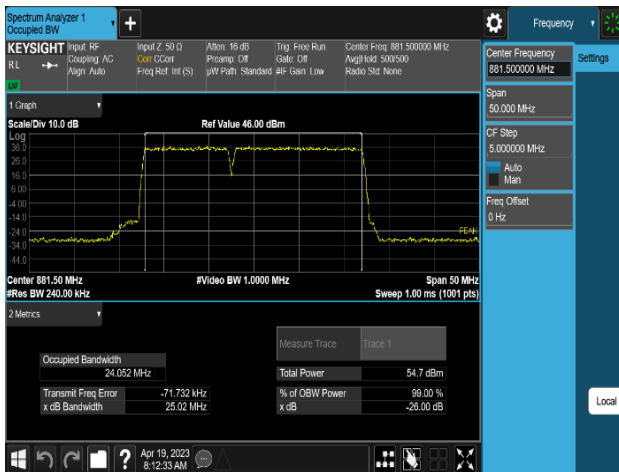
FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 47 of 394



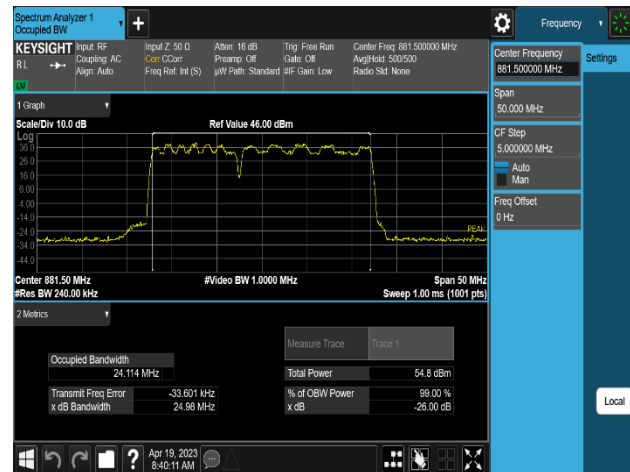
Plot 8-65. Occupied Bandwidth Plot
(NR n5_2C_5M+5M_QPSK - Low Channel_4T, Port 1)



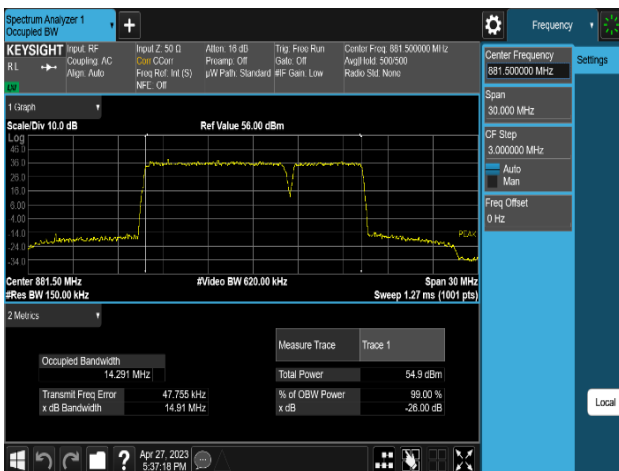
Plot 8-66. Occupied Bandwidth Plot
(NR n5_2C_5M+5M_16QAM - Low Channel_4T, Port 1)



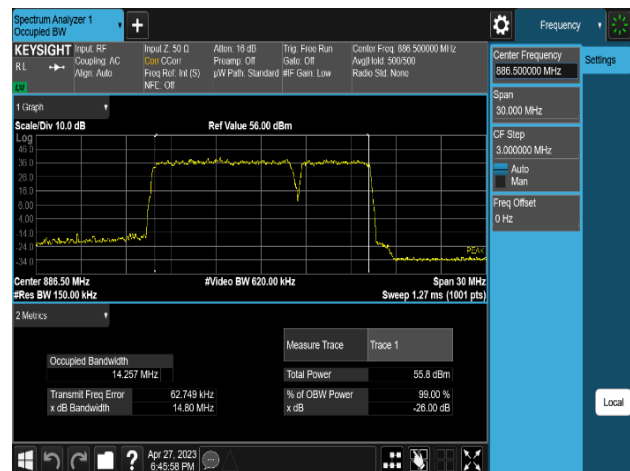
Plot 8-67. Occupied Bandwidth Plot
(NR n5_2C_10M+15M_QPSK - Mid Channel_4T, Port 2)



Plot 8-68. Occupied Bandwidth Plot
(NR n5_2C_10M+15M_16QAM - Mid Channel_4T, Port 3)

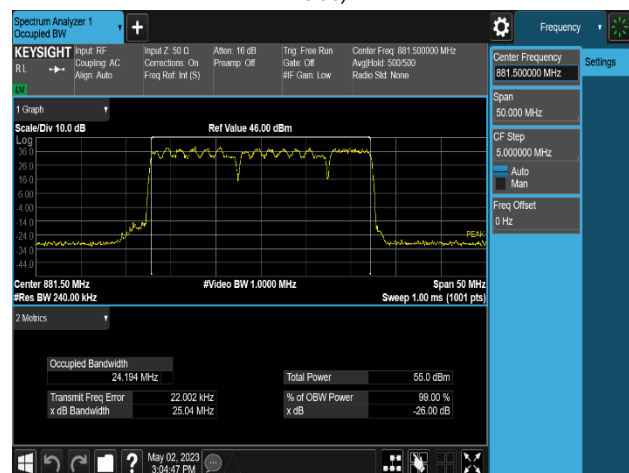
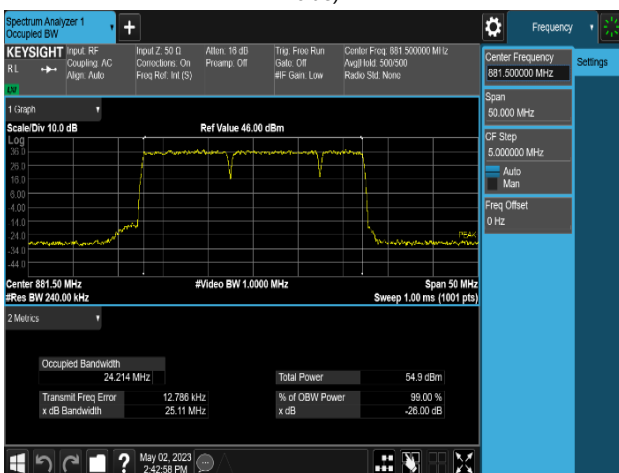
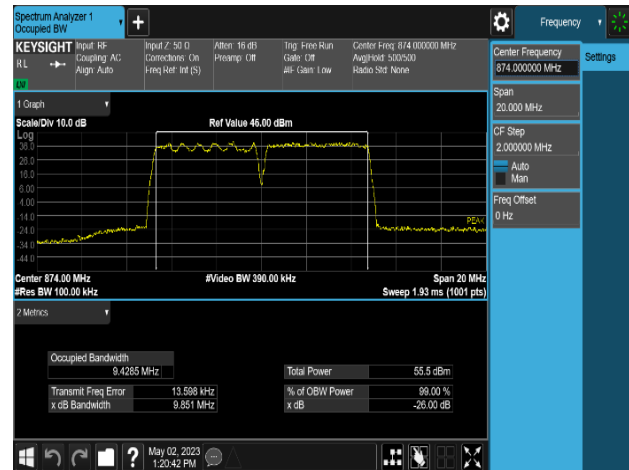
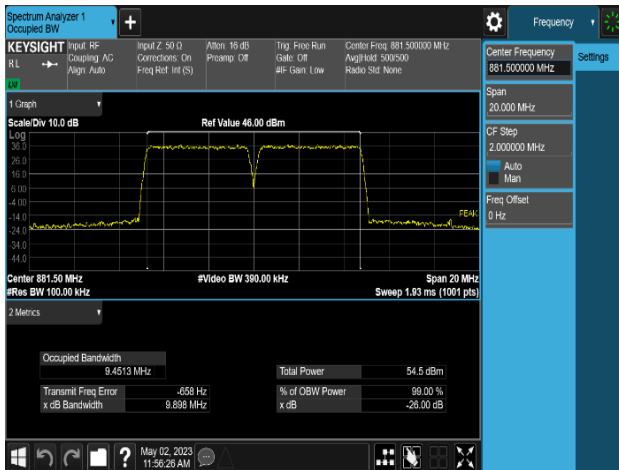
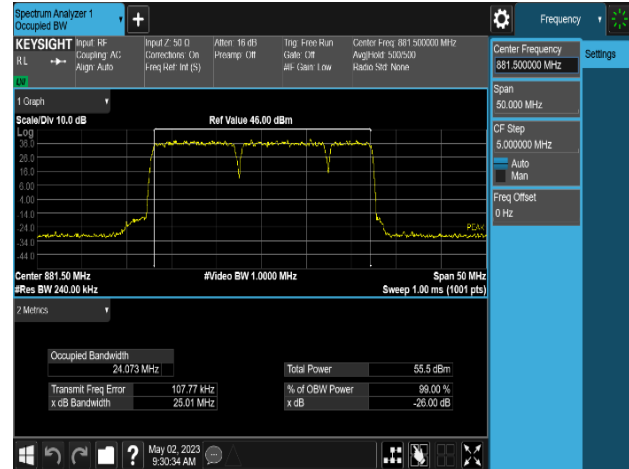
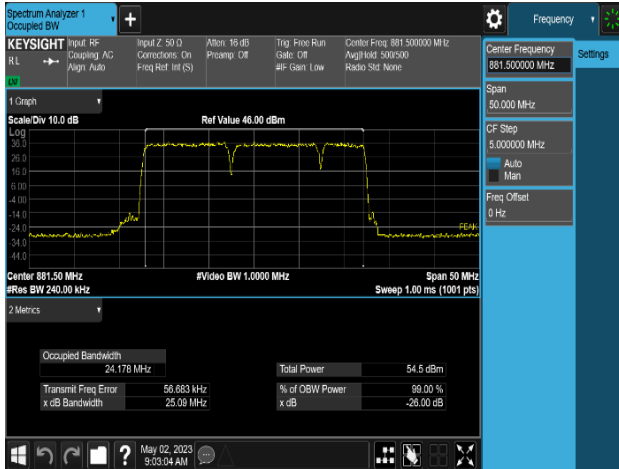


Plot 8-69. Occupied Bandwidth Plot
(MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_QPSK - Mid Channel_4T, Port 2)

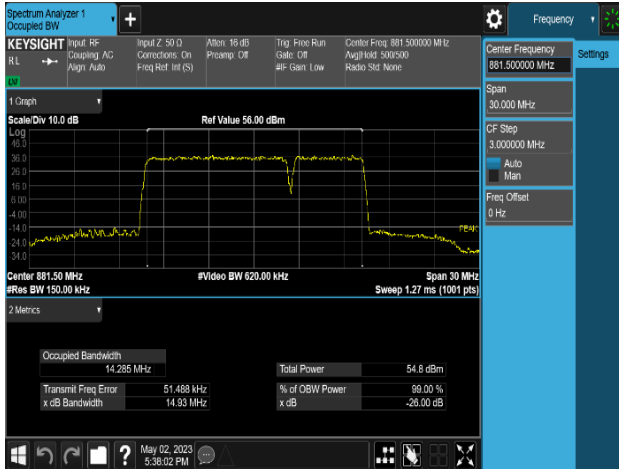


Plot 8-70. Occupied Bandwidth Plot
(MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_16QAM - High Channel_4T, Port 1)

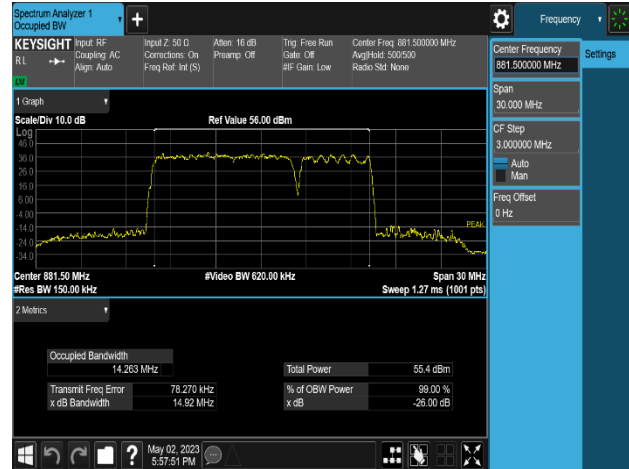
FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 48 of 394



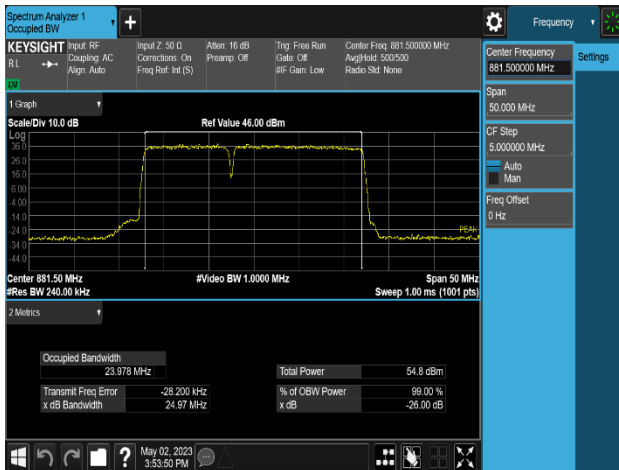
FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 49 of 394



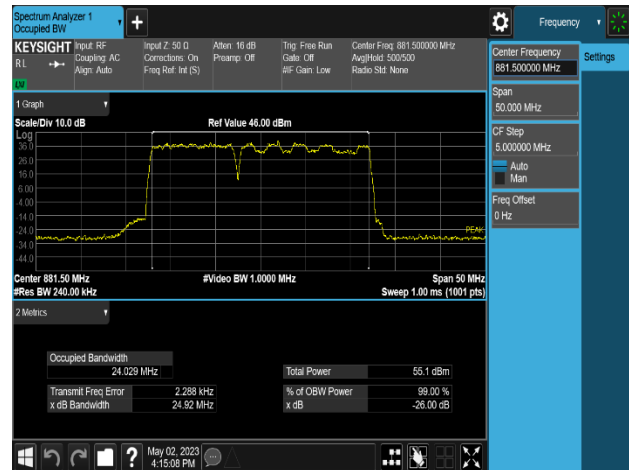
Plot 8-77. Occupied Bandwidth Plot
(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_QPSK - Mid Channel_4T, Port 3)



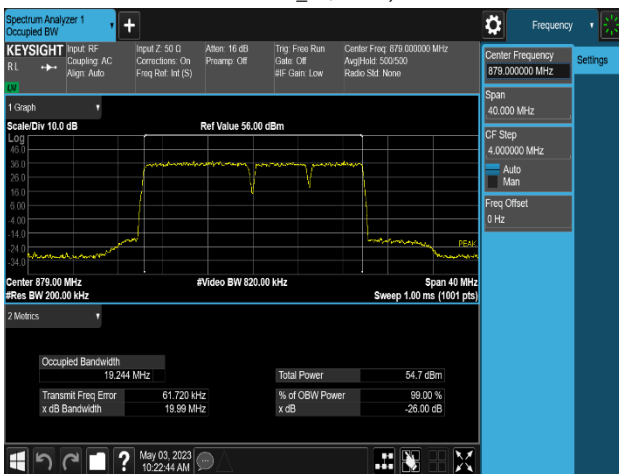
Plot 8-78. Occupied Bandwidth Plot
(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_16QAM - Mid Channel_4T, Port 1)



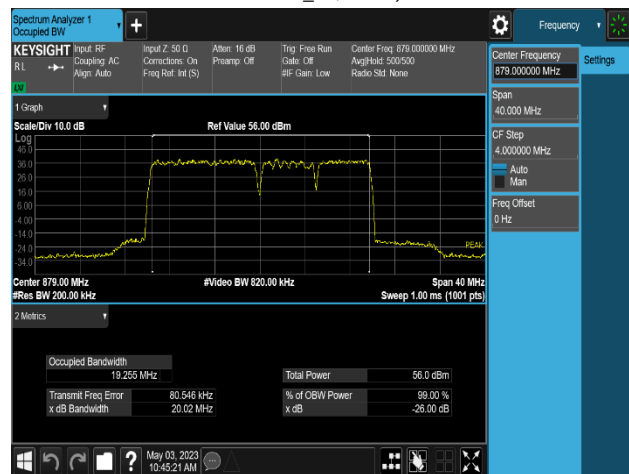
Plot 8-79. Occupied Bandwidth Plot
(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_QPSK - Mid Channel_4T, Port 1)



Plot 8-80. Occupied Bandwidth Plot
(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_16QAM - Mid Channel_4T, Port 1)

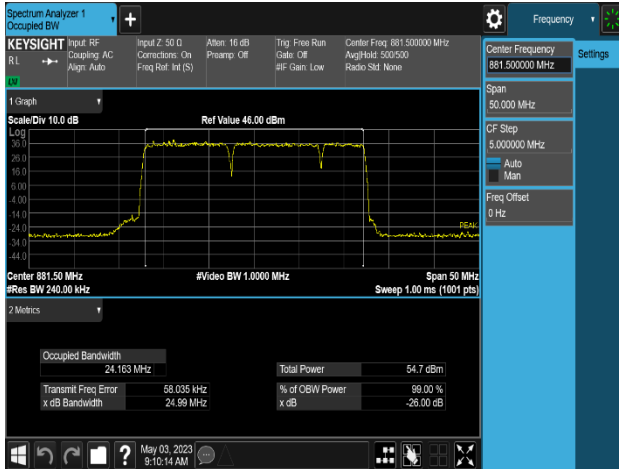


Plot 8-81. Occupied Bandwidth Plot
(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_QPSK - Low Channel_4T, Port 1)

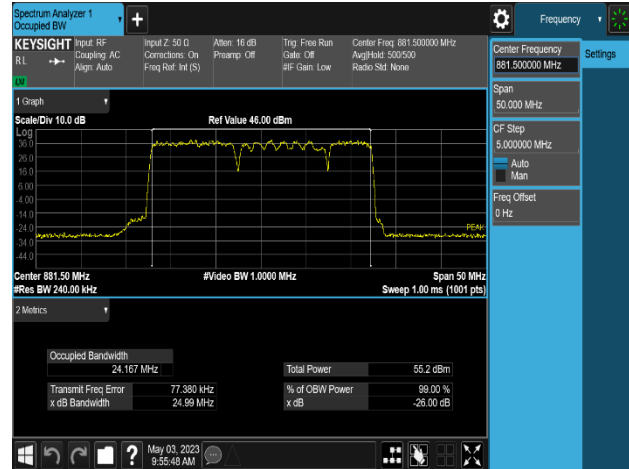


Plot 8-82. Occupied Bandwidth Plot
(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_16QAM - Low Channel_4T, Port 0)

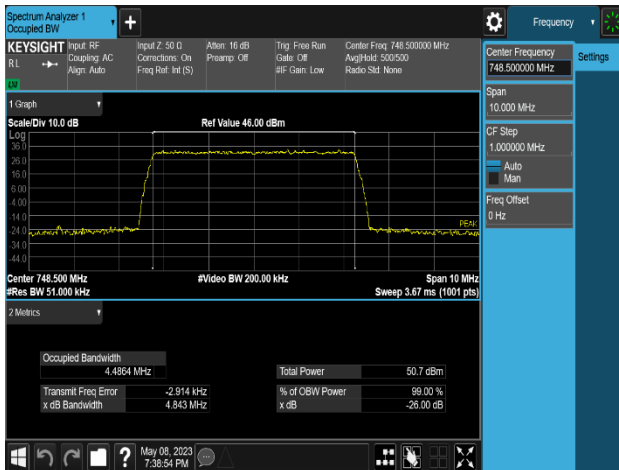
FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 50 of 394



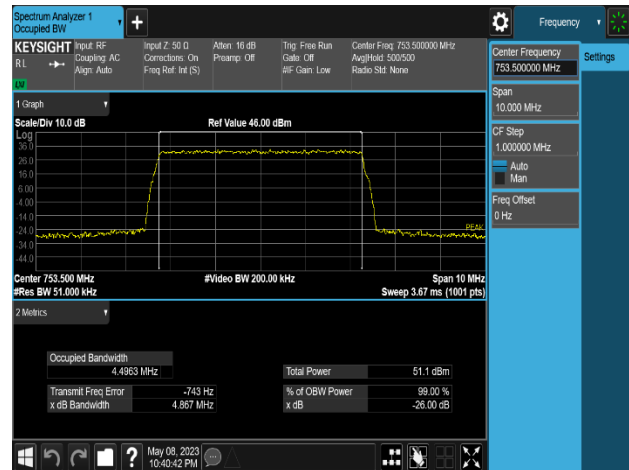
Plot 8-83. Occupied Bandwidth Plot
(MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_QPSK - Mid Channel_4T, Port 1)



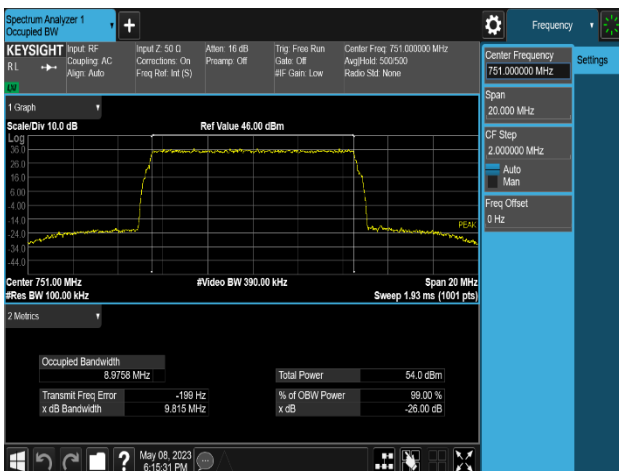
Plot 8-84. Occupied Bandwidth Plot
(MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_16QAM - Mid Channel_4T, Port 2)



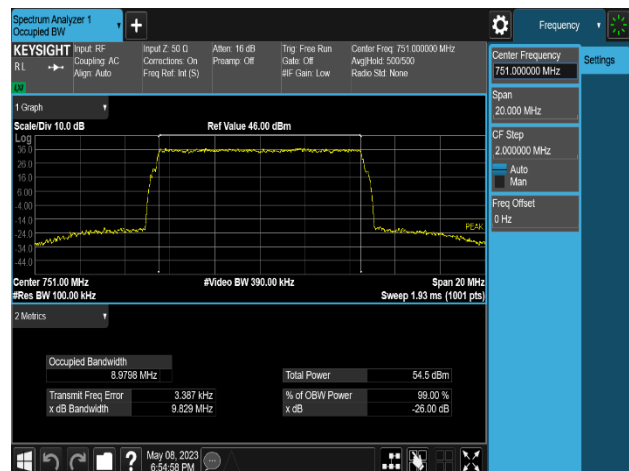
Plot 8-85. Occupied Bandwidth Plot
(LTE B13_1C_5M_QPSK - Low Channel_4T, Port 3)



Plot 8-86. Occupied Bandwidth Plot
(LTE B13_1C_5M_64QAM - High Channel_4T, Port 3)

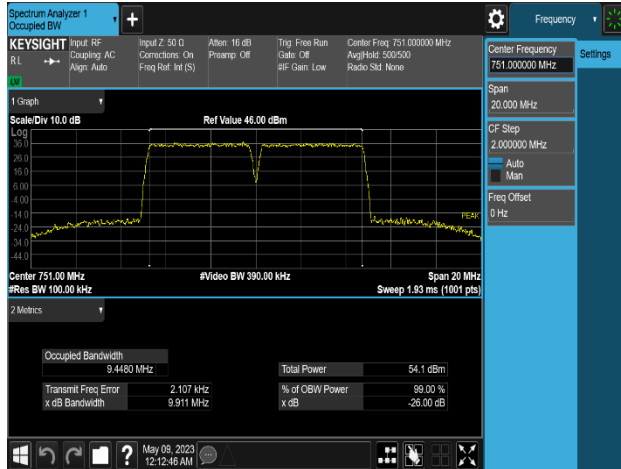


Plot 8-87. Occupied Bandwidth Plot
(LTE B13_1C_10M_QPSK - Mid Channel_4T, Port 2)

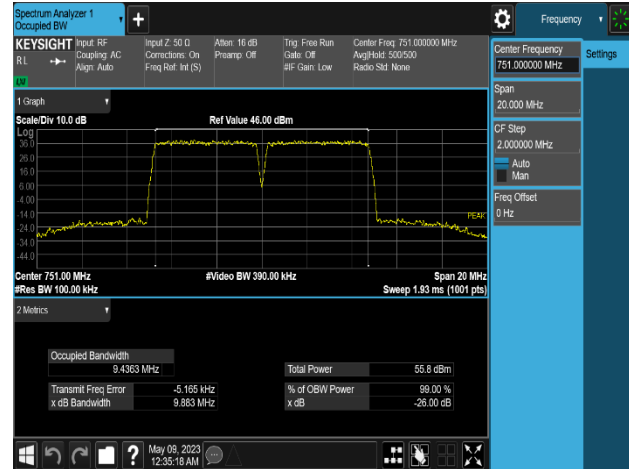


Plot 8-88. Occupied Bandwidth Plot
(LTE B13_1C_10M_64QAM - Mid Channel_4T, Port 0)

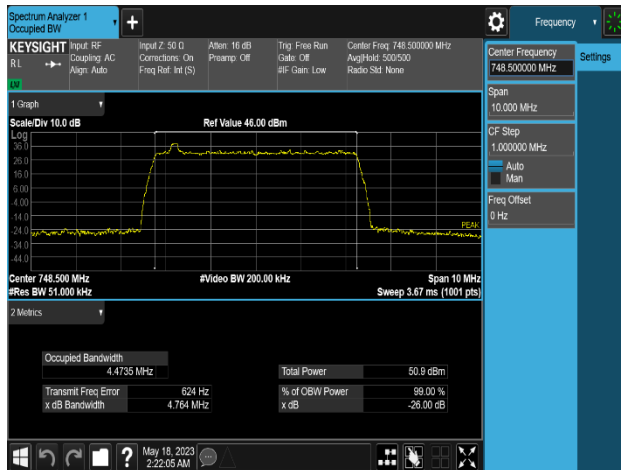
FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 51 of 394



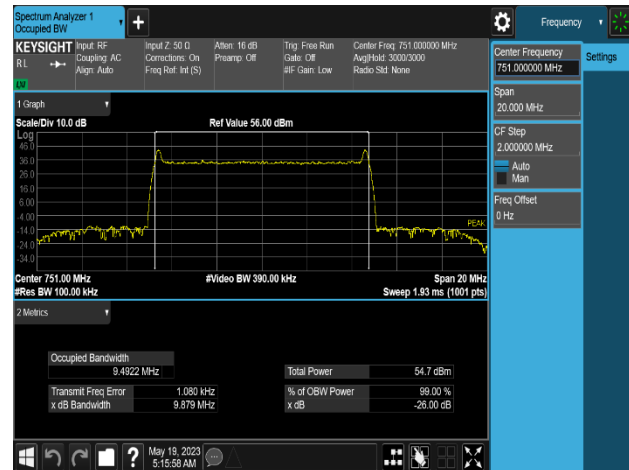
Plot 8-89. Occupied Bandwidth Plot
(LTE B13_2C_5M+5M_QPSK - Mid Channel_4T, Port 1)



Plot 8-90. Occupied Bandwidth Plot
(LTE B13_2C_5M+5M_16QAM - Mid Channel_4T, Port 3)



Plot 8-91. Occupied Bandwidth Plot
(LTE B13_1C_5M+NB-IoT(11B)_QPSK - Low Channel_4T, Port 1)



Plot 8-92. Occupied Bandwidth Plot
(LTE B13_1C_10M+NB-IoT(2GB)_QPSK - Mid Channel_4T, Port 2)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 52 of 394

8.3 Equivalent Radiated Power

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 Description

KDB 971168 D01 v03r01 – Section 5

KDB 662911 D01 v02r01 – Section E)1) In-Band Power Measurements

ANSI C63.26-2015 – Section 5.2.4.4.1

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:

1. Conducted power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 ~ 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Span = 2 ~ 3 $\times$ OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger = Free-run
8. Trace mode = Trace-Averaging (RMS) set to average over 100 sweeps
9. The trace was allowed to stabilize
10. The relevant equation for determining the maximum ERP from the measured RF output power is given in Equation as follows:

$$\text{ERP} = P_{\text{Meas}} + G_{\text{T}} - 2.15 \text{ dBi}$$
 where
 GT: gain of the transmitting antenna, in dBi (ERP).

Test Setup

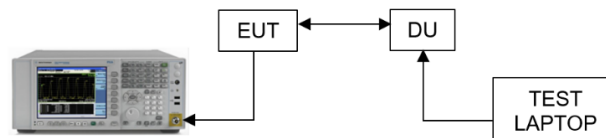


Figure 8-2. Test Instrument & Measurement Setup

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 53 of 394

Limit

N/A

Note: The maximum antenna gain and ERP limit are determined at the time of licensing depending on the geographical location of the base station.

Test Notes

1. For test results, an estimated calculated maximum permissible EIRP reported. And the required reduction measurements will be performed when after the installation.
2. Consider the following factors for MIMO:
The output power per each port is measured as dBm/MHz or dBm, the output powers are summed up in linear using the measure-and-sum technique defined in KDB 971168 D01 v03r01 - Section E) 2).
3. The output power per port (dBm/MHz or dBm) 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 output power calculations.
4. Sample Calculation:
Let us assume the following numbers:
 - a) Total MIMO Conducted Power as 61886.33 milliWatts
 - b)

	Factors	Value	Unit
Summed MIMO Conducted Power (linear sum)		61886.33	mW/
Summed MIMO Conducted Power (dBm)	$= 10 * \log (61886.33) =$	47.92	dBm

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 54 of 394

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	44.83	44.84	44.89	44.84
	1	44.98	45.00	45.04	45.03
Total MIMO Conducted Power (mW)		61886.33	62101.73	62747.26	62320.93
Total MIMO Conducted Power (dBm)		47.92	47.93	47.98	47.95
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	44.80	44.80	44.80	44.78
	1	44.91	44.90	44.88	44.87
Total MIMO Conducted Power (mW)		61173.71	61102.47	60960.49	60750.98
Total MIMO Conducted Power (dBm)		47.87	47.86	47.85	47.84
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	44.68	44.69	44.71	44.69
	1	44.84	44.85	44.89	44.89
Total MIMO Conducted Power (mW)		59855.45	59993.43	60412.00	60276.10
Total MIMO Conducted Power (dBm)		47.77	47.78	47.81	47.80

Table 8-49. Conducted Average Output Power Table (LTE B5_1C_5M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 55 of 394	

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	47.96	48.01	47.93	47.90
	1	48.04	48.00	47.98	47.91
Total MIMO Conducted Power (mW)		126196.82	126336.92	124892.74	123461.14
Total MIMO Conducted Power (dBm)		51.01	51.02	50.97	50.92
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	47.89	47.88	47.90	47.88
	1	47.90	47.92	47.97	47.90
Total MIMO Conducted Power (mW)		123177.19	123320.31	124320.89	123035.70
Total MIMO Conducted Power (dBm)		50.91	50.91	50.95	50.90
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	47.85	47.85	47.84	47.82
	1	47.93	47.88	47.93	47.89
Total MIMO Conducted Power (mW)		123040.59	122329.89	122900.40	122051.77
Total MIMO Conducted Power (dBm)		50.90	50.88	50.90	50.87

Table 8-50. Conducted Average Output Power Table (LTE B5_1C_10M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 56 of 394	

Low Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.94	47.86
	1	48.02	47.91
Total MIMO Conducted Power (mW)		125617.00	122895.84
Total MIMO Conducted Power (dBm)		50.99	50.90
Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.75	47.82
	1	47.84	47.81
Total MIMO Conducted Power (mW)		120379.71	120928.95
Total MIMO Conducted Power (dBm)		50.81	50.83
High Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.63	47.65
	1	47.78	47.80
Total MIMO Conducted Power (mW)		117921.98	118466.28
Total MIMO Conducted Power (dBm)		50.72	50.74

Table 8-51. Conducted Average Output Power Table (LTE B5_2C_5M+5M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 57 of 394

Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	48.11	48.15
	1	47.89	48.00
Total MIMO Conducted Power (mW)		126233.95	128410.79
Total MIMO Conducted Power (dBm)		51.01	51.09

Table 8-52. Conducted Average Output Power Table (LTE B5_3C_5M+10M+10M_2T)

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 9 : NR 1	Low	0	48.01	48.00	47.43	47.95
		1	48.21	48.14	47.71	48.13
		Total MIMO Conducted Power (mW)	129462.84	128258.57	114355.12	127386.45
		Total MIMO Conducted Power(dBm)	51.12	51.08	50.58	51.05
	Mid	0	48.01	47.97	47.61	47.99
		1	48.10	48.13	47.75	48.17
		Total MIMO Conducted Power (mW)	127806.61	127674.36	117242.86	128565.14
		Total MIMO Conducted Power(dBm)	51.07	51.06	50.69	51.09
	High	0	47.88	47.82	47.36	47.83
		1	48.13	48.04	47.66	48.07
		Total MIMO Conducted Power (mW)	126389.17	124213.64	112794.78	124794.59
		Total MIMO Conducted Power(dBm)	51.02	50.94	50.52	50.96

Table 8-53. Conducted Average Output Power Table (DSS B(n)5_1C_10M(9:1 Ratio)_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)			Page 58 of 394

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 8 : NR 2	Low	0	47.92	47.96	47.93	47.94
		1	48.05	48.09	48.08	48.09
		Total MIMO Conducted Power (mW)	125770.46	126934.20	126355.68	126646.96
		Total MIMO Conducted Power(dBm)	51.00	51.04	51.02	51.03
	Mid	0	47.98	47.96	48.02	47.91
		1	48.13	48.11	48.11	48.10
		Total MIMO Conducted Power (mW)	127818.80	127231.53	128101.23	126367.06
		Total MIMO Conducted Power(dBm)	51.07	51.05	51.08	51.02
	High	0	47.80	47.84	47.82	47.85
		1	48.07	48.07	48.09	48.02
		Total MIMO Conducted Power (mW)	124376.92	124934.46	124951.01	124340.66
		Total MIMO Conducted Power(dBm)	50.95	50.97	50.97	50.95

Table 8-54. Conducted Average Output Power Table (DSS B(n)5_1C_10M(8:2 Ratio)_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)			Page 59 of 394

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 7 : NR 3	Low	0	47.96	47.89	47.88	47.90
		1	48.00	48.11	48.09	48.12
		Total MIMO Conducted Power (mW)	125613.00	126231.95	125793.13	126522.94
		Total MIMO Conducted Power(dBm)	50.99	51.01	51.00	51.02
	Mid	0	47.96	47.95	48.01	47.99
		1	48.09	48.07	48.09	48.10
		Total MIMO Conducted Power (mW)	126934.20	126494.44	127658.11	127516.04
		Total MIMO Conducted Power(dBm)	51.04	51.02	51.06	51.06
	High	0	47.81	47.82	47.80	47.76
		1	48.08	48.03	48.07	48.03
		Total MIMO Conducted Power (mW)	124663.63	124067.18	124376.92	123236.62
		Total MIMO Conducted Power(dBm)	50.96	50.94	50.95	50.91

Table 8-55. Conducted Average Output Power Table (DSS B(n)5_1C_10M(7:3 Ratio)_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)			Page 60 of 394

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 6 : NR 4	Low	0	47.88	47.86	47.91	47.91
		1	48.09	48.06	48.06	48.05
		Total MIMO Conducted Power (mW)	125793.13	125067.69	125775.12	125627.99
		Total MIMO Conducted Power(dBm)	51.00	50.97	51.00	50.99
	Mid	0	47.96	47.89	47.94	47.90
		1	48.07	48.07	48.07	48.04
		Total MIMO Conducted Power (mW)	126638.23	125638.64	126350.99	125339.05
		Total MIMO Conducted Power(dBm)	51.03	50.99	51.02	50.98
	High	0	47.76	47.81	47.78	47.80
		1	48.02	48.08	48.05	47.98
		Total MIMO Conducted Power (mW)	123090.50	124663.63	123805.46	123061.79
		Total MIMO Conducted Power(dBm)	50.90	50.96	50.93	50.90

Table 8-56. Conducted Average Output Power Table (DSS B(n)5_1C_10M(6:4 Ratio)_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)			Page 61 of 394

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 5 : NR 5	Low	0	47.88	47.86	47.93	47.87
		1	48.15	48.09	48.09	48.14
		Total MIMO Conducted Power (mW)	126689.26	125511.13	126503.83	126397.88
		Total MIMO Conducted Power(dBm)	51.03	50.99	51.02	51.02
	Mid	0	47.92	47.94	47.89	47.86
		1	48.05	48.06	48.05	48.07
		Total MIMO Conducted Power (mW)	125770.46	126203.51	125344.04	125215.16
		Total MIMO Conducted Power(dBm)	51.00	51.01	50.98	50.98
	High	0	47.77	47.82	47.76	47.74
		1	47.98	48.02	48.00	47.96
		Total MIMO Conducted Power (mW)	122647.00	123921.06	122799.26	121946.49
		Total MIMO Conducted Power(dBm)	50.89	50.93	50.89	50.86

Table 8-57. Conducted Average Output Power Table (DSS B(n)5_1C_10M(5:5 Ratio)_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)			Page 62 of 394

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 4 : NR 6	Low	0	47.88	47.86	47.98	47.91
		1	48.12	48.10	48.19	48.12
		Total MIMO Conducted Power (mW)	126239.64	125659.63	128723.23	126665.08
		Total MIMO Conducted Power(dBm)	51.01	50.99	51.10	51.03
	Mid	0	47.92	47.85	47.95	47.86
		1	48.04	48.06	48.11	48.06
		Total MIMO Conducted Power (mW)	125623.66	124927.17	127087.75	125067.69
		Total MIMO Conducted Power(dBm)	50.99	50.97	51.04	50.97
	High	0	47.74	47.81	47.82	47.72
		1	48.06	48.01	48.03	48.04
		Total MIMO Conducted Power (mW)	123402.70	123636.05	124067.18	122835.72
		Total MIMO Conducted Power(dBm)	50.91	50.92	50.94	50.89

Table 8-58. Conducted Average Output Power Table (DSS B(n)5_1C_10M(4:6 Ratio)_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)			Page 63 of 394

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 3 : NR 7	Low	0	47.86	47.88	47.99	47.89
		1	48.12	48.09	48.11	48.15
		Total MIMO Conducted Power (mW)	125957.65	125793.13	127664.88	126830.74
		Total MIMO Conducted Power(dBm)	51.00	51.00	51.06	51.03
	Mid	0	47.92	47.90	47.96	47.91
		1	48.03	48.07	48.10	48.09
		Total MIMO Conducted Power (mW)	125477.20	125780.46	127082.69	126218.57
		Total MIMO Conducted Power(dBm)	50.99	51.00	51.04	51.01
	High	0	47.79	47.81	47.81	47.81
		1	48.01	47.99	48.08	48.03
		Total MIMO Conducted Power (mW)	123358.56	123345.48	124663.63	123927.96
		Total MIMO Conducted Power(dBm)	50.91	50.91	50.96	50.93

Table 8-59. Conducted Average Output Power Table (DSS B(n)5_1C_10M(3:7 Ratio)_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)			Page 64 of 394

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 2 : NR 8	Low	0	47.91	47.90	47.93	47.90
		1	48.17	48.15	48.13	48.17
		Total MIMO Conducted Power (mW)	127416.17	126972.56	127099.87	127274.03
		Total MIMO Conducted Power(dBm)	51.05	51.04	51.04	51.05
	Mid	0	47.90	47.86	47.91	47.88
		1	48.08	48.07	48.10	48.06
		Total MIMO Conducted Power (mW)	125928.27	125215.16	126367.06	125349.68
		Total MIMO Conducted Power(dBm)	51.00	50.98	51.02	50.98
	High	0	47.73	47.83	47.91	47.87
		1	48.06	48.10	48.05	48.06
		Total MIMO Conducted Power (mW)	123266.02	125239.06	125627.99	125208.52
		Total MIMO Conducted Power(dBm)	50.91	50.98	50.99	50.98

Table 8-60. Conducted Average Output Power Table (DSS B(n)5_1C_10M(2:8 Ratio)_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)			Page 65 of 394

DSS Ratio	Channel	Port	QPSK	16QAM
LTE 9 : NR 1	Low	0	47.98	47.83
		1	48.13	48.02
		Total MIMO Conducted Power (mW)	127818.80	124060.60
		Total MIMO Conducted Power(dBm)	51.07	50.94
	Mid	0	47.96	47.92
		1	48.13	48.06
		Total MIMO Conducted Power (mW)	127530.24	125917.59
		Total MIMO Conducted Power(dBm)	51.06	51.00
	High	0	47.82	48.02
		1	48.03	48.16
		Total MIMO Conducted Power (mW)	124067.18	128850.59
		Total MIMO Conducted Power(dBm)	50.94	51.10

Table 8-61. Conducted Average Output Power Table (DSS B(n)5_2C_10M+10M(9:1 Ratio)_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 66 of 394

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	44.94	44.89	44.83	44.85
	1	45.02	45.05	44.99	45.00
Total MIMO Conducted Power (mW)		62957.64	62820.83	61958.90	62171.99
Total MIMO Conducted Power (dBm)		47.99	47.98	47.92	47.94
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	44.90	44.85	44.81	44.88
	1	45.00	45.00	44.97	44.92
Total MIMO Conducted Power (mW)		62525.73	62171.99	61674.22	61806.56
Total MIMO Conducted Power (dBm)		47.96	47.94	47.90	47.91
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	44.75	44.79	44.74	44.75
	1	44.91	44.96	44.88	44.90
Total MIMO Conducted Power (mW)		60828.02	61462.92	60546.13	60756.78
Total MIMO Conducted Power (dBm)		47.84	47.89	47.82	47.84

Table 8-62. Conducted Average Output Power Table (NR n5_1C_5M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 67 of 394	

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	47.92	47.89	47.89	47.86
	1	48.03	47.99	47.95	48.00
Total MIMO Conducted Power (mW)		125477.20	124468.31	123891.17	124189.94
Total MIMO Conducted Power (dBm)		50.99	50.95	50.93	50.94
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	47.89	47.91	47.85	47.93
	1	47.98	48.03	48.01	47.97
Total MIMO Conducted Power (mW)		124323.52	125334.73	124194.87	124748.29
Total MIMO Conducted Power (dBm)		50.95	50.98	50.94	50.96
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	47.86	47.85	47.85	47.73
	1	47.98	47.99	47.90	47.87
Total MIMO Conducted Power (mW)		123900.04	123904.31	122613.19	120527.57
Total MIMO Conducted Power (dBm)		50.93	50.93	50.89	50.81

Table 8-63. Conducted Average Output Power Table (NR n5_1C_10M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 68 of 394	

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	47.92	47.90	47.87	47.83
	1	48.10	48.08	48.07	48.01
Total MIMO Conducted Power (mW)		126509.53	125928.27	125356.00	123914.82
Total MIMO Conducted Power (dBm)		51.02	51.00	50.98	50.93
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	47.83	47.80	47.84	47.82
	1	47.96	47.98	47.98	47.99
Total MIMO Conducted Power (mW)		123190.90	123061.79	123619.34	123484.71
Total MIMO Conducted Power (dBm)		50.91	50.90	50.92	50.92
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	47.78	47.81	47.80	47.79
	1	47.98	48.00	48.03	47.96
Total MIMO Conducted Power (mW)		122784.94	123490.60	123789.05	122634.64
Total MIMO Conducted Power (dBm)		50.89	50.92	50.93	50.89

Table 8-64. Conducted Average Output Power Table (NR n5_1C_15M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 69 of 394	

Low Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.91	47.87
	1	48.10	48.13
Total MIMO Conducted Power (mW)		126367.06	126248.01
Total MIMO Conducted Power (dBm)		51.02	51.01
Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.96	47.90
	1	48.04	48.04
Total MIMO Conducted Power (mW)		126196.82	125339.05
Total MIMO Conducted Power (dBm)		51.01	50.98
High Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.80	47.84
	1	47.98	48.06
Total MIMO Conducted Power (mW)		123061.79	124786.98
Total MIMO Conducted Power (dBm)		50.90	50.96

Table 8-65. Conducted Average Output Power Table (NR n5_2C_5M+5M_2T)

Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.88	47.82
	1	48.09	48.09
Total MIMO Conducted Power (mW)		125793.13	124951.01
Total MIMO Conducted Power (dBm)		51.00	50.97

Table 8-66. Conducted Average Output Power Table (NR n5_2C_10M+15M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 70 of 394	

Channel	Port	QPSK	16QAM
Low	0	47.92	48.03
	1	48.00	48.04
	Total MIMO Conducted Power (mW)	125039.84	127212.65
	Total MIMO Conducted Power(dBm)	50.97	51.05
Mid	0	47.88	47.88
	1	47.96	47.97
	Total MIMO Conducted Power (mW)	123893.47	124037.59
	Total MIMO Conducted Power(dBm)	50.93	50.94
High	0	47.63	47.66
	1	47.75	47.84
	Total MIMO Conducted Power (mW)	117509.08	119158.01
	Total MIMO Conducted Power(dBm)	50.70	50.76

Table 8-67. Conducted Average Output Power Table (MSR 2C_DSS B(n)5_2C_10M+LTE B5_5M_2T)

Channel	Port	QPSK	16QAM
Mid	0	47.92	47.91
	1	47.75	47.80
	Total MIMO Conducted Power (mW)	121512.32	122059.60
	Total MIMO Conducted Power(dBm)	50.85	50.87

Table 8-68. Conducted Average Output Power Table (MSR 3C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 71 of 394

Low Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.92	47.89
	1	48.02	48.02
Total MIMO Conducted Power (mW)		125331.08	124904.66
Total MIMO Conducted Power (dBm)		50.98	50.97
Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.88	47.82
	1	48.01	47.92
Total MIMO Conducted Power (mW)		124617.39	122478.19
Total MIMO Conducted Power (dBm)		50.96	50.88
High Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.76	47.81
	1	47.92	47.95
Total MIMO Conducted Power (mW)		121647.64	122768.35
Total MIMO Conducted Power (dBm)		50.85	50.89

Table 8-69. Conducted Average Output Power Table (MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_2T)

Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.69	47.61
	1	47.87	47.78
Total MIMO Conducted Power (mW)		119983.97	117655.75
Total MIMO Conducted Power (dBm)		50.79	50.71

Table 8-70. Conducted Average Output Power Table (MSR 3C_NR n5_2C_10M+10M+LTE B5_1C_5M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 72 of 394

Channel	Port	QPSK	16QAM
Low	0	48.21	48.21
	1	48.26	48.26
	Total MIMO Conducted Power (mW)	133210.11	133210.11
	Total MIMO Conducted Power(dBm)	51.25	51.25
Mid	0	48.02	48.08
	1	48.12	48.19
	Total MIMO Conducted Power (mW)	128250.41	130186.16
	Total MIMO Conducted Power(dBm)	51.08	51.15
High	0	47.81	47.84
	1	47.89	47.97
	Total MIMO Conducted Power (mW)	121912.55	123474.89
	Total MIMO Conducted Power(dBm)	50.86	50.92

Table 8-71. Conducted Average Output Power Table (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_2T)

Channel	Port	QPSK	16QAM
Mid	0	47.82	47.81
	1	48.07	48.00
	Total MIMO Conducted Power (mW)	124655.05	123490.60
	Total MIMO Conducted Power(dBm)	50.96	50.92

Table 8-72. Conducted Average Output Power Table (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 73 of 394

Channel	Port	QPSK	16QAM
Low	0	48.06	48.07
	1	48.14	48.21
	Total MIMO Conducted Power (mW)	129136.32	130342.61
	Total MIMO Conducted Power(dBm)	51.11	51.15
Mid	0	48.02	48.07
	1	48.14	48.15
	Total MIMO Conducted Power (mW)	128549.81	129434.01
	Total MIMO Conducted Power(dBm)	51.09	51.12
High	0	47.76	47.94
	1	47.89	48.06
	Total MIMO Conducted Power (mW)	121221.22	126203.51
	Total MIMO Conducted Power(dBm)	50.84	51.01

Table 8-73. Conducted Average Output Power Table (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_2T)

Channel	Port	QPSK	16QAM
Mid	0	47.99	47.87
	1	48.05	48.05
	Total MIMO Conducted Power (mW)	126776.97	125061.39
	Total MIMO Conducted Power(dBm)	51.03	50.97

Table 8-74. Conducted Average Output Power Table (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 74 of 394

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	43.31	43.18	43.20	43.18
	1	43.15	43.13	43.10	43.15
	2	43.19	43.14	43.08	43.12
	3	43.06	43.04	43.03	43.07
Total MIMO Conducted Power (mW)		83157.81	82099.41	81724.84	82239.22
Total MIMO Conducted Power (dBm)		49.20	49.14	49.12	49.15
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	43.21	43.23	43.27	43.30
	1	43.09	43.12	43.15	43.15
	2	43.09	43.11	43.11	43.14
	3	43.09	43.06	43.09	43.14
Total MIMO Conducted Power (mW)		82052.39	82244.04	82721.11	83246.02
Total MIMO Conducted Power (dBm)		49.14	49.15	49.18	49.20
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	43.23	43.19	43.22	43.21
	1	43.06	43.08	43.06	43.07
	2	43.09	43.09	43.05	43.07
	3	43.16	43.11	43.14	43.13
Total MIMO Conducted Power (mW)		82339.81	82003.35	82009.55	82053.68
Total MIMO Conducted Power (dBm)		49.16	49.14	49.14	49.14

Table 8-75. Conducted Average Output Power Table (LTE B5_1C_5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 75 of 394	

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	46.43	46.72	46.77	46.82
	1	46.23	46.30	46.27	46.27
	2	46.24	46.32	46.30	46.36
	3	46.25	46.31	46.30	46.33
Total MIMO Conducted Power (mW)		170172.37	175258.50	175213.72	176653.26
Total MIMO Conducted Power (dBm)		52.31	52.44	52.44	52.47
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	46.73	46.73	46.85	46.88
	1	46.26	46.22	46.20	46.19
	2	46.36	46.28	46.28	46.29
	3	46.31	46.25	46.29	46.30
Total MIMO Conducted Power (mW)		175372.27	173608.70	175125.97	175561.70
Total MIMO Conducted Power (dBm)		52.44	52.40	52.43	52.44
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	46.82	46.72	46.76	46.87
	1	46.15	46.21	46.21	46.30
	2	46.29	46.22	46.27	46.38
	3	46.34	46.33	46.37	46.43
Total MIMO Conducted Power (mW)		174906.19	173605.45	174922.62	178703.86
Total MIMO Conducted Power (dBm)		52.43	52.40	52.43	52.52

Table 8-76. Conducted Average Output Power Table (LTE B5_1C_10M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 76 of 394	

Low Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.22	46.41
	1	46.11	46.16
	2	46.18	46.22
	3	46.14	46.18
Total MIMO Conducted Power (mW)		165321.67	168431.72
Total MIMO Conducted Power (dBm)		52.18	52.26
Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.36	46.23
	1	46.09	46.21
	2	46.16	46.21
	3	46.24	46.30
Total MIMO Conducted Power (mW)		167273.13	168199.92
Total MIMO Conducted Power (dBm)		52.23	52.26
High Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.33	46.39
	1	46.23	46.26
	2	46.27	46.24
	3	46.35	46.34
Total MIMO Conducted Power (mW)		170445.75	170943.37
Total MIMO Conducted Power (dBm)		52.32	52.33

Table 8-77. Conducted Average Output Power Table (LTE B5_2C_5M+5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 77 of 394	

Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.66	46.71
	1	46.19	46.09
	2	46.24	46.26
	3	46.37	46.40
Total MIMO Conducted Power (mW)		173359.50	173444.12
Total MIMO Conducted Power (dBm)		52.39	52.39

Table 8-78. Conducted Average Output Power Table (LTE B5_3C_5M+10M+10M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 78 of 394	

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 9 : NR 1	Low	0	46.80	46.51	46.19	46.82
		1	46.24	46.26	45.88	46.30
		2	46.32	46.30	45.91	46.34
		3	46.40	46.29	45.93	46.36
		Total MIMO Conducted Power (mW)	176442.11	172255.99	158485.21	177045.93
		Total MIMO Conducted Power(dBm)	52.47	52.36	52.00	52.48
	Mid	0	46.68	46.71	46.40	46.72
		1	46.16	46.26	45.87	46.25
		2	46.34	46.32	45.85	46.33
		3	46.44	46.43	46.07	46.41
		Total MIMO Conducted Power (mW)	174971.51	175957.21	161205.05	175864.91
		Total MIMO Conducted Power(dBm)	52.43	52.45	52.07	52.45
	High	0	46.79	47.04	46.55	46.89
		1	46.24	46.32	45.82	46.26
		2	46.34	46.34	45.92	46.32
		3	46.50	46.50	46.18	46.42
		Total MIMO Conducted Power (mW)	177546.61	181158.34	163959.52	177840.02
		Total MIMO Conducted Power(dBm)	52.49	52.58	52.15	52.50

Table 8-79. Conducted Average Output Power Table (DSS B(n)5_1C_10M(9:1 Ratio)_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 79 of 394

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 8 : NR 2	Low	0	46.91	46.95	46.79	46.79
		1	46.34	46.33	46.30	46.34
		2	46.32	46.34	46.35	46.40
		3	46.45	46.41	46.41	46.42
		Total MIMO Conducted Power (mW)	179155.35	179303.53	177315.00	178310.24
		Total MIMO Conducted Power(dBm)	52.53	52.54	52.49	52.51
	Mid	0	46.73	46.77	46.80	46.86
		1	46.23	46.21	46.25	46.28
		2	46.28	46.29	46.33	46.32
		3	46.35	46.41	46.38	46.41
		Total MIMO Conducted Power (mW)	174687.50	175628.61	176437.32	177597.87
		Total MIMO Conducted Power(dBm)	52.42	52.45	52.47	52.49
	High	0	46.95	46.94	47.01	46.96
		1	46.33	46.27	46.30	46.30
		2	46.29	46.28	46.28	46.28
		3	46.41	46.46	46.48	46.48
		Total MIMO Conducted Power (mW)	178810.71	178516.16	179817.29	179242.27
		Total MIMO Conducted Power(dBm)	52.52	52.52	52.55	52.53

Table 8-80. Conducted Average Output Power Table (DSS B(n)5_1C_10M(8:2 Ratio)_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 80 of 394

DSS Ratio	Channel	Port	QPSK	16QAM	64QAM	256QAM
LTE 4 : NR 6	Low	0	46.84	46.80	46.86	46.84
		1	46.30	46.36	46.29	46.28
		2	46.35	46.39	46.36	46.39
		3	46.47	46.44	46.40	46.44
		Total MIMO Conducted Power (mW)	178476.60	178721.07	177991.66	178374.51
		Total MIMO Conducted Power(dBm)	52.52	52.52	52.50	52.51
	Mid	0	46.70	46.79	46.77	46.88
		1	46.25	46.18	46.22	46.22
		2	46.25	46.27	46.37	46.36
		3	46.32	46.36	46.41	46.41
		Total MIMO Conducted Power (mW)	173967.67	174864.01	176516.18	177635.80
		Total MIMO Conducted Power(dBm)	52.40	52.43	52.47	52.50
	High	0	46.99	47.01	46.95	46.95
		1	46.25	46.30	46.28	46.30
		2	46.29	46.30	46.24	46.30
		3	46.47	46.44	46.45	46.46
		Total MIMO Conducted Power (mW)	179093.81	179605.65	178236.68	179119.76
		Total MIMO Conducted Power(dBm)	52.53	52.54	52.51	52.53

Table 8-81. Conducted Average Output Power Table (DSS B(n)5_1C_10M(4:6 Ratio)_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)			Page 81 of 394

DSS Ratio	Channel	Port	QPSK	16QAM
LTE 9 : NR 1	Low	0	46.82	46.84
		1	46.40	46.39
		2	46.50	46.16
		3	46.51	46.09
		Total MIMO Conducted Power (mW)	181175.21	173806.15
		Total MIMO Conducted Power(dBm)	52.58	52.40
	Mid	0	46.87	46.85
		1	46.45	46.43
		2	46.49	46.57
		3	46.51	46.67
		Total MIMO Conducted Power (mW)	182134.72	184217.09
		Total MIMO Conducted Power(dBm)	52.60	52.65
	High	0	46.88	46.85
		1	46.42	46.38
		2	46.56	46.51
		3	46.64	46.54
		Total MIMO Conducted Power (mW)	184027.43	181721.26
		Total MIMO Conducted Power(dBm)	52.65	52.59

Table 8-82. Conducted Average Output Power Table (DSS B(n)_2C_10M+10M(9:1 Ratio)_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 82 of 394

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	43.32	43.35	43.37	43.39
	1	43.25	43.22	43.25	43.30
	2	43.18	43.23	43.25	43.32
	3	43.23	43.23	43.26	43.29
Total MIMO Conducted Power (mW)		84447.95	84692.15	85180.40	86015.67
Total MIMO Conducted Power (dBm)		49.27	49.28	49.30	49.35
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	43.39	43.38	43.43	43.44
	1	43.26	43.23	43.29	43.28
	2	43.27	43.24	43.27	43.25
	3	43.29	43.27	43.28	43.34
Total MIMO Conducted Power (mW)		85573.80	85133.61	85873.55	86073.77
Total MIMO Conducted Power (dBm)		49.32	49.30	49.34	49.35
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	43.31	43.30	43.31	43.35
	1	43.25	43.26	43.27	43.29
	2	43.23	43.21	43.22	43.24
	3	43.34	43.36	43.33	43.40
Total MIMO Conducted Power (mW)		85179.02	85181.40	85178.57	85921.53
Total MIMO Conducted Power (dBm)		49.30	49.30	49.30	49.34

Table 8-83. Conducted Average Output Power Table (NR n5_1C_5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 83 of 394

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	46.56	46.84	46.80	46.85
	1	46.18	46.26	46.29	46.29
	2	46.24	46.35	46.30	46.32
	3	46.26	46.31	46.31	46.32
Total MIMO Conducted Power (mW)		171124.69	176480.94	175837.09	176686.78
Total MIMO Conducted Power (dBm)		52.33	52.47	52.45	52.47
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	46.82	46.78	46.76	46.78
	1	46.23	46.32	46.31	46.29
	2	46.23	46.32	46.35	46.38
	3	46.31	46.40	46.35	46.42
Total MIMO Conducted Power (mW)		174792.02	177004.39	176484.30	177507.03
Total MIMO Conducted Power (dBm)		52.43	52.48	52.47	52.49
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	46.72	46.77	46.66	46.65
	1	46.24	46.29	46.22	46.23
	2	46.39	46.40	46.32	46.42
	3	46.53	46.54	46.42	46.54
Total MIMO Conducted Power (mW)		177591.25	178826.62	174931.97	177148.74
Total MIMO Conducted Power (dBm)		52.49	52.52	52.43	52.48

Table 8-84. Conducted Average Output Power Table (NR n5_1C_10M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 84 of 394	

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	46.57	46.75	46.74	46.73
	1	46.18	46.21	46.24	46.25
	2	46.20	46.35	46.33	46.35
	3	46.37	46.40	46.33	46.36
Total MIMO Conducted Power (mW)		171927.59	175901.65	175186.25	175670.67
Total MIMO Conducted Power (dBm)		52.35	52.45	52.44	52.45
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	46.69	46.72	46.69	46.66
	1	46.18	46.26	46.21	46.15
	2	46.33	46.34	46.39	46.30
	3	46.40	46.38	46.39	46.40
Total MIMO Conducted Power (mW)		174766.57	175759.96	175551.35	173863.98
Total MIMO Conducted Power (dBm)		52.42	52.45	52.44	52.40
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	46.71	46.67	46.70	46.75
	1	46.19	46.17	46.16	46.11
	2	46.38	46.30	46.27	46.26
	3	46.51	46.39	46.32	46.36
Total MIMO Conducted Power (mW)		176694.75	174060.63	173297.41	173665.31
Total MIMO Conducted Power (dBm)		52.47	52.41	52.39	52.40

Table 8-85. Conducted Average Output Power Table (NR n5_1C_15M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 85 of 394	

Low Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.71	46.71
	1	46.17	46.22
	2	46.26	46.28
	3	46.31	46.29
Total MIMO Conducted Power (mW)		173304.46	173782.49
Total MIMO Conducted Power (dBm)		52.39	52.40
Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.67	46.68
	1	46.18	46.16
	2	46.24	46.24
	3	46.31	46.30
Total MIMO Conducted Power (mW)		172775.88	172593.97
Total MIMO Conducted Power (dBm)		52.37	52.37
High Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.60	46.64
	1	46.17	46.15
	2	46.27	46.30
	3	46.33	46.41
Total MIMO Conducted Power (mW)		172426.73	173751.67
Total MIMO Conducted Power (dBm)		52.37	52.40

Table 8-86. Conducted Average Output Power Table (NR n5_2C_5M+5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 86 of 394

Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.70	46.66
	1	46.25	46.16
	2	46.31	46.31
	3	46.39	46.38
Total MIMO Conducted Power (mW)		175250.64	173856.75
Total MIMO Conducted Power (dBm)		52.44	52.40

Table 8-87. Conducted Average Output Power Table (NR n5_2C_10M+15M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 87 of 394	

Channel	Port	QPSK	16QAM
Low	0	46.44	46.76
	1	46.39	46.38
	2	46.41	46.51
	3	46.51	46.56
	Total MIMO Conducted Power (mW)	176130.21	180936.31
	Total MIMO Conducted Power(dBm)	52.46	52.58
Mid	0	46.77	46.69
	1	46.30	46.26
	2	46.49	46.53
	3	46.57	46.59
	Total MIMO Conducted Power (mW)	180151.26	179514.48
	Total MIMO Conducted Power(dBm)	52.56	52.54
High	0	46.62	46.60
	1	46.11	46.14
	2	46.39	46.43
	3	46.42	46.40
	Total MIMO Conducted Power (mW)	174156.00	174429.54
	Total MIMO Conducted Power(dBm)	52.41	52.42

Table 8-88. Conducted Average Output Power Table (MSR 2C_DSS B(n)5_2C_10M+LTE B5_5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 88 of 394

Channel	Port	QPSK	16QAM
Mid	0	46.24	46.45
	1	45.82	45.92
	2	45.94	46.02
	3	46.05	46.02
	Total MIMO Conducted Power (mW)	159803.29	163230.08
	Total MIMO Conducted Power(dBm)	52.04	52.13

Table 8-89. Conducted Average Output Power Table (MSR 3C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 89 of 394

Low Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.57	46.69
	1	46.27	46.32
	2	46.31	46.41
	3	46.44	46.44
Total MIMO Conducted Power (mW)		174570.23	177328.49
Total MIMO Conducted Power (dBm)		52.42	52.49
Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.76	46.74
	1	46.39	46.36
	2	46.42	46.39
	3	46.46	46.45
Total MIMO Conducted Power (mW)		179087.29	178165.92
Total MIMO Conducted Power (dBm)		52.53	52.51
High Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.64	46.65
	1	46.23	46.28
	2	46.38	46.41
	3	46.43	46.44
Total MIMO Conducted Power (mW)		175512.84	176507.76
Total MIMO Conducted Power (dBm)		52.44	52.47

Table 8-90. Conducted Average Output Power Table (MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 90 of 394	

Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.23	46.43
	1	45.96	46.13
	2	46.08	46.15
	3	46.22	46.25
Total MIMO Conducted Power (mW)		163851.84	168353.97
Total MIMO Conducted Power (dBm)		52.14	52.26

Table 8-91. Conducted Average Output Power Table (MSR 3C_NR n5_2C_10M+10M+LTE B5_1C_5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 91 of 394

Channel	Port	QPSK	16QAM
Low	0	46.66	46.60
	1	46.11	46.07
	2	46.26	46.16
	3	46.18	46.23
	Total MIMO Conducted Power (mW)	170938.90	169447.06
	Total MIMO Conducted Power(dBm)	52.33	52.29
Mid	0	46.56	46.55
	1	46.00	45.91
	2	46.18	46.13
	3	46.18	46.06
	Total MIMO Conducted Power (mW)	168091.28	165564.74
	Total MIMO Conducted Power(dBm)	52.26	52.19
High	0	46.41	46.45
	1	45.79	45.82
	2	46.04	45.97
	3	46.03	46.09
	Total MIMO Conducted Power (mW)	161949.46	162532.47
	Total MIMO Conducted Power(dBm)	52.09	52.11

Table 8-92. Conducted Average Output Power Table (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 92 of 394

Channel	Port	QPSK	16QAM
Mid	0	46.55	46.61
	1	46.01	46.14
	2	46.04	46.19
	3	46.20	46.25
	Total MIMO Conducted Power (mW)	166954.10	170689.87
	Total MIMO Conducted Power(dBm)	52.23	52.32

Table 8-93. Conducted Average Output Power Table (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 93 of 394

Channel	Port	QPSK	16QAM
Low	0	46.65	46.47
	1	46.05	45.92
	2	46.14	46.02
	3	46.20	46.09
	Total MIMO Conducted Power (mW)	169311.72	164083.76
	Total MIMO Conducted Power(dBm)	52.29	52.15
Mid	0	46.55	46.62
	1	46.03	46.04
	2	46.08	46.21
	3	46.16	46.26
	Total MIMO Conducted Power (mW)	167127.87	170148.78
	Total MIMO Conducted Power(dBm)	52.23	52.31
High	0	46.47	46.53
	1	45.93	45.86
	2	46.09	46.05
	3	46.19	46.16
	Total MIMO Conducted Power (mW)	165770.45	165102.27
	Total MIMO Conducted Power(dBm)	52.20	52.18

Table 8-94. Conducted Average Output Power Table (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 94 of 394

Channel	Port	QPSK	16QAM
Mid	0	46.44	46.40
	1	46.00	45.89
	2	46.04	45.96
	3	46.17	46.06
	Total MIMO Conducted Power (mW)	165445.25	162276.89
	Total MIMO Conducted Power(dBm)	52.19	52.10

Table 8-95. Conducted Average Output Power Table (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 95 of 394

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	44.71	44.64	44.57	44.57
	1	44.81	44.77	44.81	44.83
Total MIMO Conducted Power (mW)		59851.26	59100.80	58912.91	59052.63
Total MIMO Conducted Power (dBm)		47.77	47.72	47.70	47.71
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	44.55	44.56	44.58	44.63
	1	44.81	44.83	44.85	44.84
Total MIMO Conducted Power (mW)		58781.32	58986.76	59259.02	59521.18
Total MIMO Conducted Power (dBm)		47.69	47.71	47.73	47.75
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	44.57	44.50	44.61	44.58
	1	44.83	44.78	44.80	44.83
Total MIMO Conducted Power (mW)		59052.63	58246.59	59108.32	59118.66
Total MIMO Conducted Power (dBm)		47.71	47.65	47.72	47.72

Table 8-96. Conducted Average Output Power Table (LTE B13_1C_5M_2T)

Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	47.55	47.34	47.39	47.41
	1	47.82	47.84	47.83	47.82
Total MIMO Conducted Power (mW)		117421.38	115015.59	115503.33	115616.86
Total MIMO Conducted Power (dBm)		50.70	50.61	50.63	50.63

Table 8-97. Conducted Average Output Power Table (LTE B13_1C_10M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)			Page 96 of 394

Mid Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	47.50	47.41
	1	47.85	47.78
Total MIMO Conducted Power (mW)		117189.82	115061.88
Total MIMO Conducted Power (dBm)		50.69	50.61

Table 8-98. Conducted Average Output Power Table (LTE B13_2C_5M+5M_2T)

Low Channel	Port	QPSK
Conducted Average Power (dBm)	0	45.09
	1	45.03
Total MIMO Conducted Power (mW)		64126.92
Total MIMO Conducted Power (dBm)		48.07
Mid Channel	Port	QPSK
Conducted Average Power (dBm)	0	45.06
	1	44.98
Total MIMO Conducted Power (mW)		63540.18
Total MIMO Conducted Power (dBm)		48.03
High Channel	Port	QPSK
Conducted Average Power (dBm)	0	45.11
	1	45.01
Total MIMO Conducted Power (mW)		64129.64
Total MIMO Conducted Power (dBm)		48.07

Table 8-99. Conducted Average Output Power Table (LTE B13_1C_5M+NB-IoT(1IB)_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 97 of 394

Mid Channel	Port	LTE10M+NB-IoT (2GB)	LTE10M+NB-IoT (1GB+1IB)	LTE10M+NB-IoT (1IB+1GB)	LTE10M+NB-IoT (2IB)
Conducted Average Power (dBm)	0	47.92	47.87	47.82	48.15
	1	47.69	47.50	47.57	48.05
Total MIMO Conducted Power (mW)		120693.04	117471.17	117683.95	129139.40
Total MIMO Conducted Power (dBm)		50.82	50.70	50.71	51.11

Table 8-100. Conducted Average Output Power Table (LTE B13_1C_10M+NB-IoT_2T)

Mid Channel	Port	QPSK
Conducted Average Power (dBm)	0	50.57
	1	50.50
Total MIMO Conducted Power (mW)		226228.82
Total MIMO Conducted Power (dBm)		53.55

Table 8-101. Conducted Average Output Power Table (Multi-Band_LTE B13_1C_10M+B5_1C_10M+NB-IoT_2T)

Mid Channel	Port	QPSK
Conducted Average Power (dBm)	0	51.07
	1	50.80
Total MIMO Conducted Power (mW)		248166.57
Total MIMO Conducted Power (dBm)		53.95

Table 8-102. Conducted Average Output Power Table (Multi-Band_LTE B13_2C_5M+5M+MSR 3C_DSS B(n)5_1C_10M+NR N5_1C_10M+LTE B5_1C_5M_2T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 98 of 394	

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	43.33	43.29	43.41	43.43
	1	43.03	42.99	43.01	43.02
	2	43.03	43.03	43.05	43.06
	3	43.24	43.24	43.22	43.27
Total MIMO Conducted Power (mW)		82795.96	82414.39	83099.73	83536.62
Total MIMO Conducted Power (dBm)		49.18	49.16	49.20	49.22
Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	43.43	43.44	43.48	43.54
	1	42.99	43.00	43.00	43.03
	2	43.08	43.03	43.00	43.10
	3	43.25	43.29	43.24	43.31
Total MIMO Conducted Power (mW)		83394.46	83454.05	83275.88	84531.57
Total MIMO Conducted Power (dBm)		49.21	49.21	49.21	49.27
High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	43.47	43.48	43.42	43.47
	1	42.96	42.96	43.02	43.03
	2	43.08	43.11	43.00	43.07
	3	43.22	43.20	43.24	43.25
Total MIMO Conducted Power (mW)		83315.76	83411.46	83062.22	83735.74
Total MIMO Conducted Power (dBm)		49.21	49.21	49.19	49.23

Table 8-103. Conducted Average Output Power Table (LTE B13_1C_5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 99 of 394	

Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Average Power (dBm)	0	46.47	46.30	46.39	46.31
	1	46.06	45.95	46.05	46.04
	2	46.16	45.97	46.04	46.03
	3	46.23	46.19	46.22	46.18
Total MIMO Conducted Power (mW)		168006.05	163140.68	165881.33	164517.45
Total MIMO Conducted Power (dBm)		52.25	52.13	52.20	52.16

Table 8-104. Conducted Average Output Power Table (LTE B13_1C_10M_4T)

Middle Channel	Port	QPSK	16QAM
Conducted Average Power (dBm)	0	46.33	46.48
	1	46.05	45.99
	2	46.03	46.00
	3	46.19	46.21
Total MIMO Conducted Power (mW)		164903.08	165776.04
Total MIMO Conducted Power (dBm)		52.17	52.20

Table 8-105. Conducted Average Output Power Table (LTE B13_2C_5M+5M_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 100 of 394	

Low Channel	Port	QPSK
Conducted Average Power (dBm)	0	43.33
	1	43.21
	2	43.06
	3	43.49
Total MIMO Conducted Power (mW)		85034.86
Total MIMO Conducted Power (dBm)		49.30
Mid Channel	Port	QPSK
Conducted Average Power (dBm)	0	43.37
	1	43.31
	2	43.14
	3	43.56
Total MIMO Conducted Power (mW)		86460.87
Total MIMO Conducted Power (dBm)		49.37
High Channel	Port	QPSK
Conducted Average Power (dBm)	0	43.30
	1	43.30
	2	43.19
	3	43.55
Total MIMO Conducted Power (mW)		86250.59
Total MIMO Conducted Power (dBm)		49.36

Table 8-106. Conducted Average Output Power Table (LTE B13_1C_5M+NB-IoT(11B)_4T)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 101 of 394	

Mid Channel	Port	LTE10M+NB-IoT (2GB)	LTE10M+NB-IoT (1GB+1IB)	LTE10M+NB-IoT (1IB+1GB)	LTE10M+NB-IoT (2IB)
Conducted Average Power (dBm)	0	46.34	46.27	46.18	46.55
	1	45.95	45.81	45.79	46.45
	2	45.83	45.75	45.72	46.29
	3	45.99	45.90	45.87	46.70
Total MIMO Conducted Power (mW)		160409.30	156959.13	155388.62	178675.99
Total MIMO Conducted Power (dBm)		52.05	51.96	51.91	52.52

Table 8-107. Conducted Average Output Power Table (LTE B13_1C_10M+NB-IoT_4T)

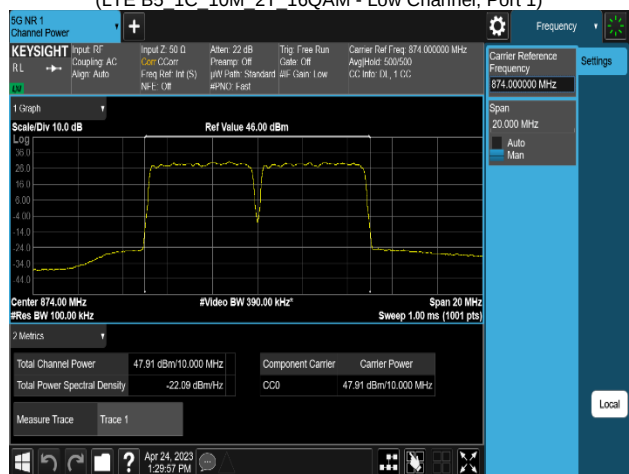
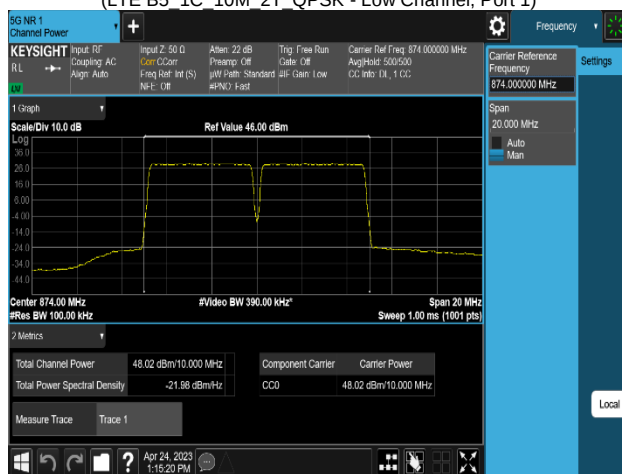
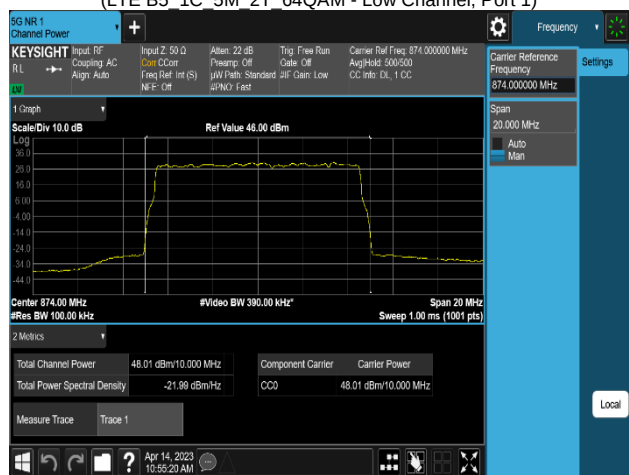
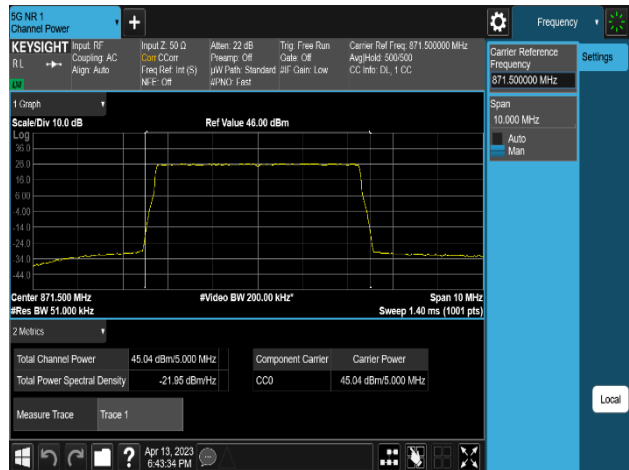
Mid Channel	Port	QPSK
Conducted Average Power (dBm)	0	48.94
	1	48.97
	2	48.96
	3	49.10
Total MIMO Conducted Power (mW)		317216.61
Total MIMO Conducted Power (dBm)		55.01

Table 8-108. Conducted Average Output Power Table (Multi-Band_LTE B13_1C_10M+B5_1C_10M+NB-IoT_4T)

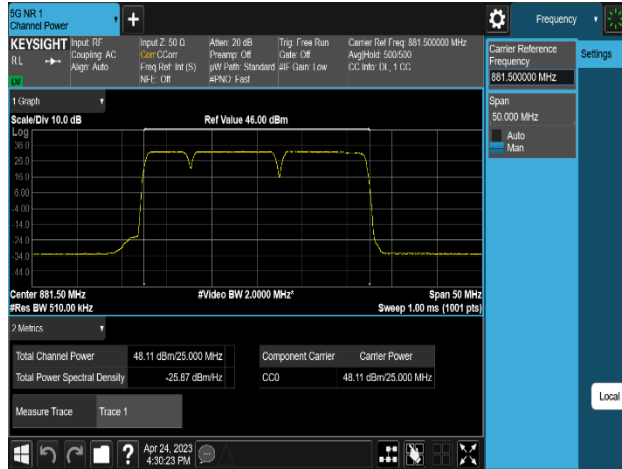
Mid Channel	Port	QPSK
Conducted Average Power (dBm)	0	48.77
	1	48.77
	2	48.92
	3	49.03
Total MIMO Conducted Power (mW)		308637.55
Total MIMO Conducted Power (dBm)		54.89

Table 8-109. Conducted Average Output Power Table (Multi-Band_LTE B13_2C_5M+5M+MSR 3C_DSS B(n)5_1C_10M+NR N5_1C_10M+LTE B5_1C_5M_4T)

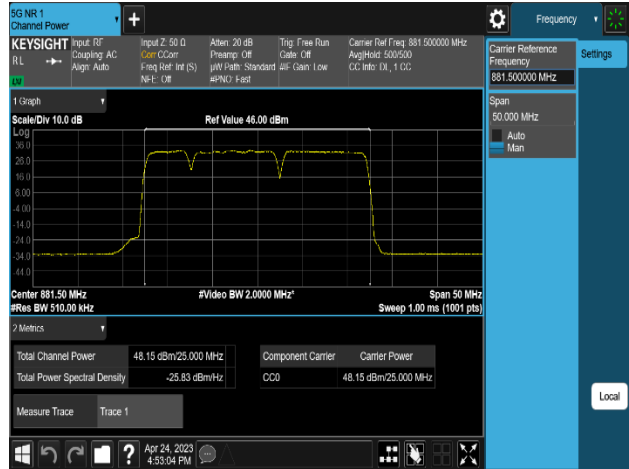
FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)	Page 102 of 394	



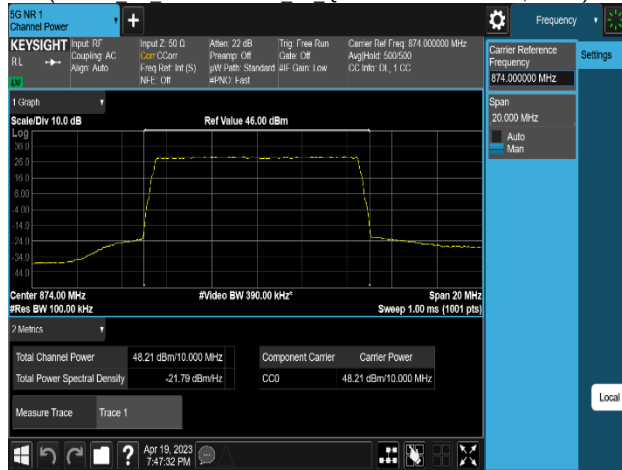
FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 103 of 394



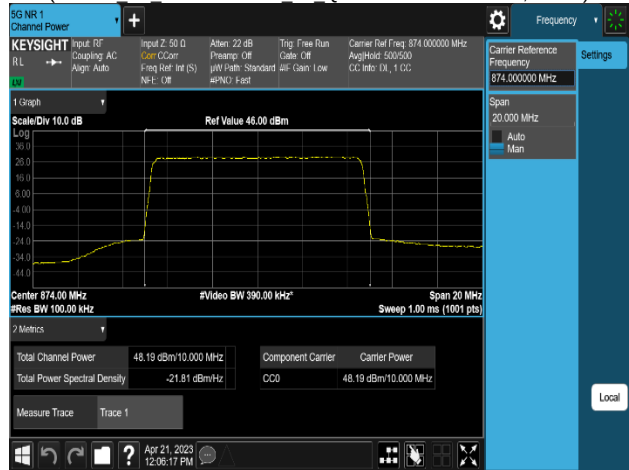
Plot 8-99. Conducted Average Output Power Plot
(LTE B5 3C 5M+10M+10M 2T QPSK - Middle Channel, Port 0)



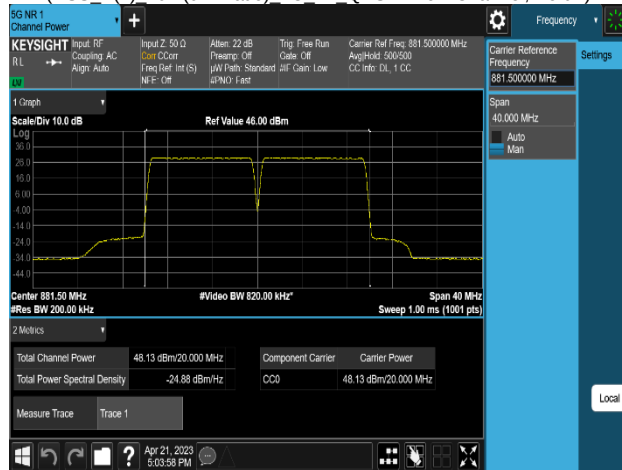
Plot 8-100. Conducted Average Output Power Plot
(LTE B5 3C 5M+10M+10M 2T QPSK - Middle Channel, Port 0)



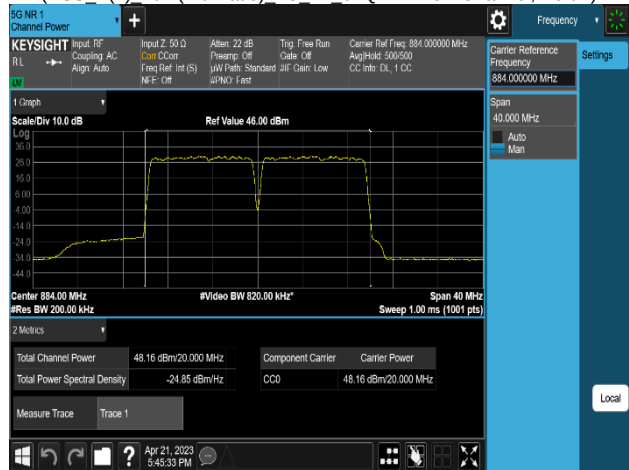
Plot 8-101. Conducted Average Output Power Plot
(DSS B(n) 10M(9:1 Ratio) 2C 2T QPSK - Low Channel, Port 1)



Plot 8-102. Conducted Average Output Power Plot
(DSS B(n) 10M(4:6 Ratio) 2C 2T 64QAM - Low Channel, Port 1)

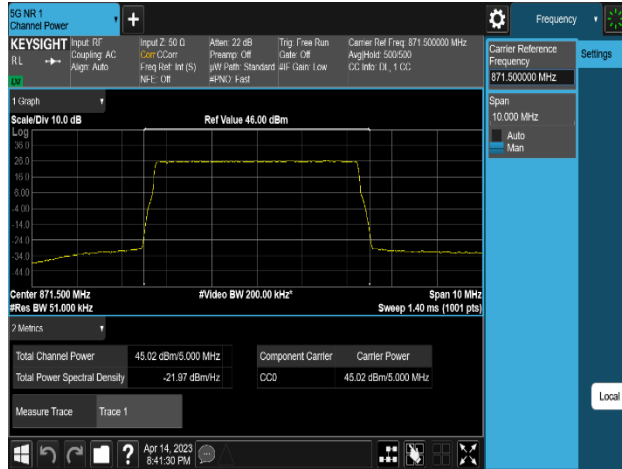


Plot 8-103. Conducted Average Output Power Plot
(DSS B(n)_2C_10M+10M_2T_QPSK - Low Channel, Port 1)

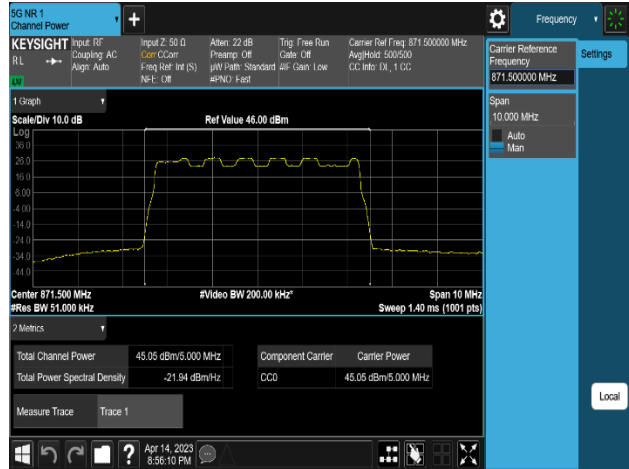


Plot 8-104. Conducted Average Output Power Plot
(DSS B(n)_2C_10M+10M_2T_QPSK - High Channel, Port 1)

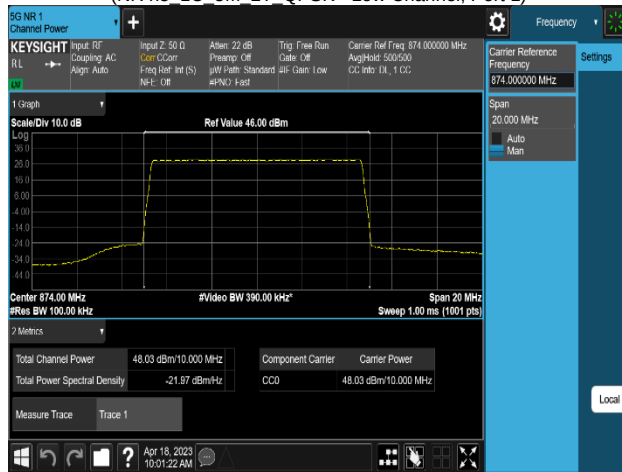
FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 104 of 394



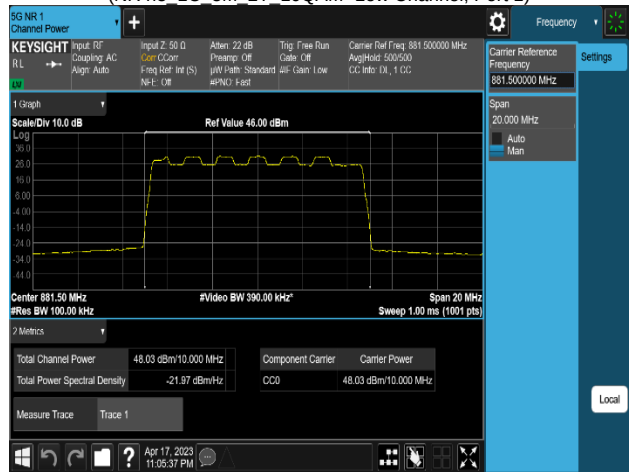
Plot 8-105. Conducted Average Output Power Plot
(NR n5_1C_5M_2T_QPSK - Low Channel, Port 1)



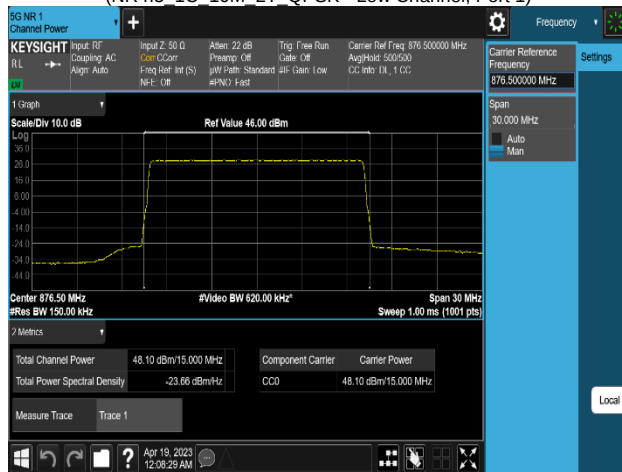
Plot 8-106. Conducted Average Output Power Plot
(NR n5_1C_5M_2T_16QAM - Low Channel, Port 1)



Plot 8-107. Conducted Average Output Power Plot
(NR n5_1C_10M_2T_QPSK - Low Channel, Port 1)



Plot 8-108. Conducted Average Output Power Plot
(NR n5_1C_10M_2T_16QAM - Middle Channel, Port 1)



Plot 8-109. Conducted Average Output Power Plot
(NR n5_1C_15M_2T_QPSK - Low Channel, Port 1)

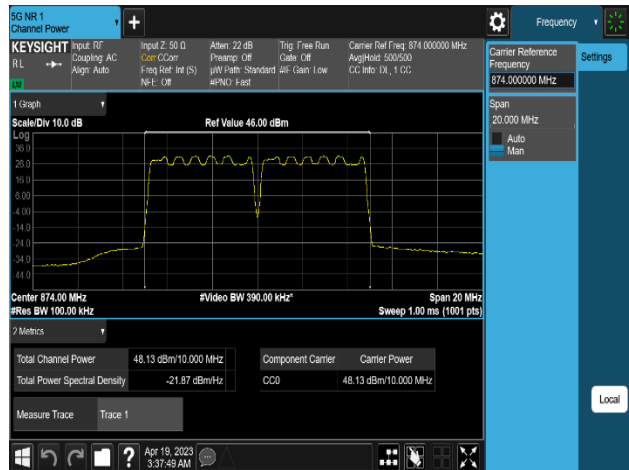


Plot 8-110. Conducted Average Output Power Plot
(NR n5_1C_15M_2T_16QAM - Low Channel, Port 1)

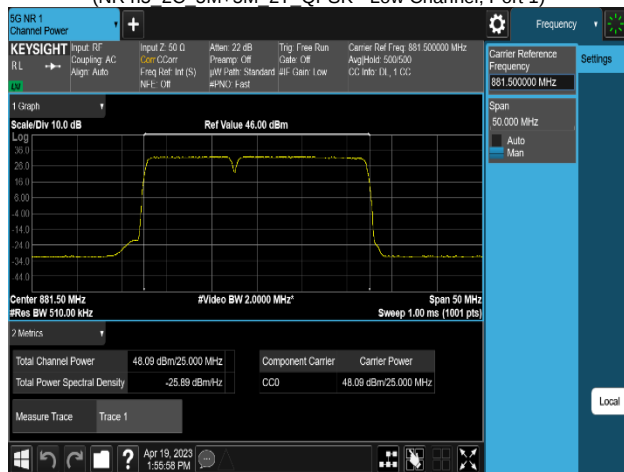
FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 105 of 394



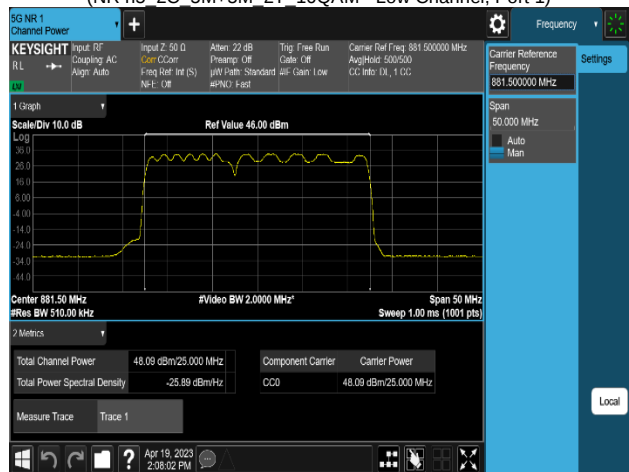
Plot 8-111. Conducted Average Output Power Plot
(NR n5 2C 5M+5M 2T QPSK - Low Channel, Port 1)



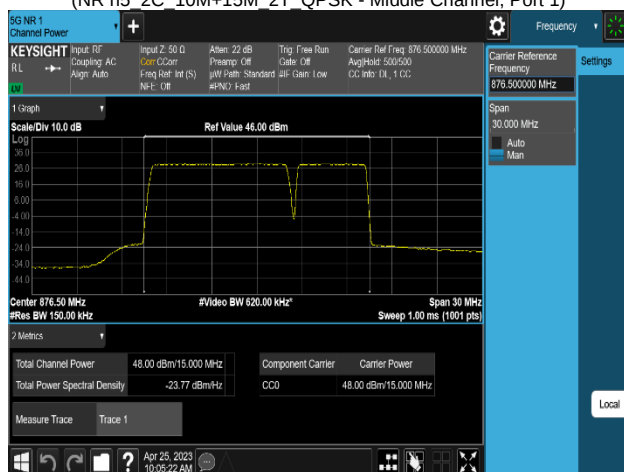
Plot 8-112. Conducted Average Output Power Plot
(NR n5 2C 5M+5M 2T 16QAM - Low Channel, Port 1)



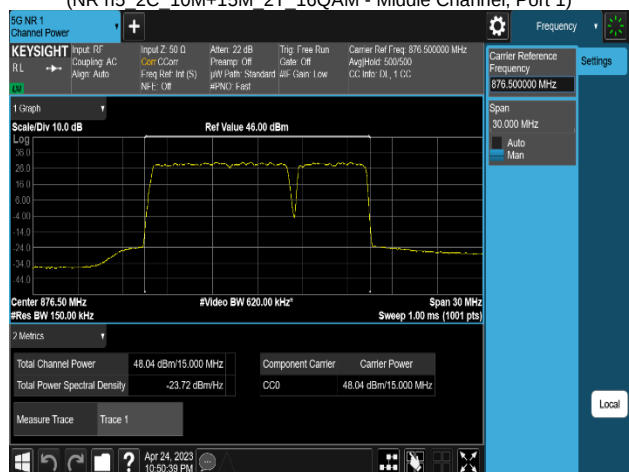
Plot 8-113. Conducted Average Output Power Plot
(NR n5 2C 10M+15M 2T QPSK - Middle Channel, Port 1)



Plot 8-114. Conducted Average Output Power Plot
(NR n5 2C 10M+15M 2T 16QAM - Middle Channel, Port 1)



Plot 8-115. Conducted Average Output Power Plot
(MSR 2C_DSS B(n)5_1C_10M+LTE B5_5M_2T_QPSK - Low Channel, Port 1)



Plot 8-116. Conducted Average Output Power Plot
(MSR 2C_DSS B(n)5_1C_10M+LTE B5_5M_2T_16QAM - Low Channel, Port 1)

FCC ID: A3LRF4461D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 8K23040701-00-R2.A3L	Test Dates: 04/12/2023 - 05/26/2023	EUT Type: RRU(RF4461d)		Page 106 of 394