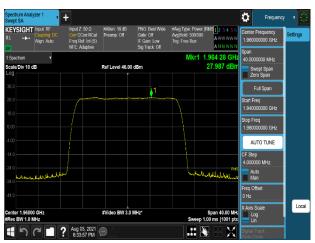
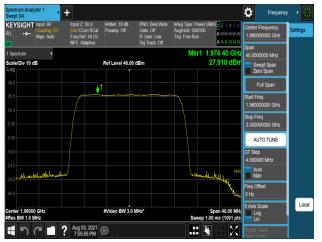




Plot 7-571. Peak Power Spectral Density Plot (B2_20M_1C_16QAM - Mid Channel, Port 2)



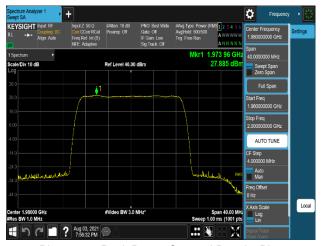
Plot 7-572. Peak Power Spectral Density Plot (B2_20M_1C_16QAM - Mid Channel, Port 3)



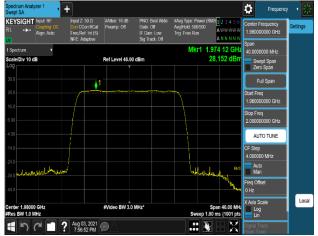
Plot 7-573. Peak Power Spectral Density Plot (B2_20M_1C_16QAM - High Channel, Port 0)



Plot 7-574. Peak Power Spectral Density Plot (B2_20M_1C_16QAM - High Channel, Port 1)



Plot 7-575. Peak Power Spectral Density Plot (B2_20M_1C_16QAM - High Channel, Port 2)



Plot 7-576. Peak Power Spectral Density Plot (B2_20M_1C_16QAM - High Channel, Port 3)

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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
O a sa alconata al	0	30.64	31.04	30.73	30.75
Conducted Power	1	30.53	30.95	30.61	30.50
(dBm/1MHz)	2	30.71	31.06	30.73	30.75
(ubiti/ fivil iz)	3	30.80	31.29	30.90	30.80
	Total MIMO Conducted Power (mW/1MHz)		5140.66	4748.31	4699.42
	Total MIMO Conducted Power (dBm/1MHz)		37.11	36.77	36.72
Ant.	Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	49.19	49.61	49.27	49.22
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Liı	mit(dBm/1MHz)	62.15	62.15	62.15	62.15
Ma	argin (dB)	-12.96	-12.54	-12.88	-12.93

Table 7-102. Peak Power Spectral Density Table (B2_5M+5M_2C - Low Channel)

Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
0	0	30.48	30.89	30.53	30.60
Conducted	1	30.51	30.91	30.55	30.64
Power (dBm/1MHz)	2	30.66	30.82	30.62	30.67
(ubiti/ tivii iz)	3	30.77	30.98	30.73	30.72
Total MIMO Conducted Power (mW/1MHz)		4599.28	4919.54	4602.41	4652.45
	Total MIMO Conducted Power (dBm/1MHz)		36.92	36.63	36.68
Ant.	. Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	49.13	49.42	49.13	49.18
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Lii	mit(dBm/1MHz)	62.15	62.15	62.15	62.15
Ma	argin (dB)	-13.02	-12.73	-13.02	-12.97

Table 7-103. Peak Power Spectral Density Table (B2_5M+5M_2C - Mid Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
0	0	30.56	30.77	30.59	30.50
Conducted	1	30.58	30.71	30.51	30.60
Power (dBm/1MHz)	2	30.67	30.86	30.67	30.81
(ubiti/ fivil iz)	3	30.61	30.93	30.74	30.74
Total MIMO Conducted Power (mW/1MHz)		4595.73	4831.08	4620.29	4659.92
Total MIMO Conducted Power (dBm/1MHz)		36.62	36.84	36.65	36.68
Ant.	Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	49.12	49.34	49.15	49.18
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Lir	mit(dBm/1MHz)	62.15	62.15	62.15	62.15
Ma	argin (dB)	-13.02	-12.81	-13.00	-12.96

Table 7-104. Peak Power Spectral Density Table (B2_5M+5M_2C - High Channel)

FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
O a sa alconata al	0	26.65	26.96	26.68	26.58
Conducted Power	1	26.47	26.84	26.56	26.51
(dBm/1MHz)	2	26.73	27.00	26.75	26.77
(ubiti/ fivil iz)	3	26.80	26.92	26.76	26.83
	Total MIMO Conducted Power (mW/1MHz)		1973.69	1865.88	1859.67
	Total MIMO Conducted Power (dBm/1MHz)		32.95	32.71	32.69
Ant.	Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	45.19	45.45	45.21	45.19
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Liı	mit(dBm/1MHz)	62.15	62.15	62.15	62.15
Ma	argin (dB)	-16.96	-16.70	-16.94	-16.95

Table 7-105. Peak Power Spectral Density Table (B2_5M+20M_2C - Low Channel)

Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
0	0	26.64	26.91	26.48	26.57
Conducted	1	26.43	26.70	26.54	26.46
Power (dBm/1MHz)	2	26.53	26.90	26.66	26.68
(ubiti/ fiviriz)	3	26.69	27.10	26.89	26.76
Total MIMO Conducted Power (mW/1MHz)		1818.12	1960.13	1847.13	1836.99
	Total MIMO Conducted Power (dBm/1MHz)		32.92	32.66	32.64
Ant.	. Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	45.10	45.42	45.16	45.14
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Liı	mit(dBm/1MHz)	62.15	62.15	62.15	62.15
Ma	argin (dB)	-17.05	-16.73	-16.98	-17.01

Table 7-106. Peak Power Spectral Density Table (B2_5M+20M_2C - Mid Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
0	0	26.57	26.87	26.61	26.62
Conducted	1	26.28	26.72	26.50	26.58
Power (dBm/1MHz)	2	26.67	26.97	26.71	26.70
(UDITI/TIVILIZ)	3	26.65	27.12	26.80	26.82
Total MIMO Conducted Power (mW/1MHz)		1805.97	1969.83	1851.51	1862.34
Total MIMO Conducted Power (dBm/1MHz)		32.57	32.94	32.68	32.70
Ant.	Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	45.07	45.44	45.18	45.20
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Lir	mit(dBm/1MHz)	62.15	62.15	62.15	62.15
Ma	argin (dB)	-17.08	-16.70	-16.97	-16.95

Table 7-107. Peak Power Spectral Density Table (B2_5M+20M_2C - High Channel)

FCC ID: A3LRF4437D-25D	PCTEST*	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
O a sa al contra al	0	26.02	26.23	26.01	25.99
Conducted	1	26.04	26.14	25.77	25.90
Power (dBm/1MHz)	2	25.97	26.33	25.98	26.18
(ubiti/ tivii iz)	3	26.22	26.58	26.20	26.39
Total MIMO Conducted Power (mW/1MHz)		1615.34	1715.16	1590.77	1635.87
Total MIMO Conducted Power (dBm/1MHz)		32.08	32.34	32.02	32.14
Ant.	Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	44.58	44.84	44.52	44.64
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Liı	mit(dBm/1MHz)	62.15	62.15	62.15	62.15
Ma	argin (dB)	-17.57	-17.31	-17.63	-17.51

Table 7-108. Peak Power Spectral Density Table (B2_10M+20M_2C - Low Channel)

Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
0	0	25.69	26.05	25.67	25.81
Conducted	1	25.52	26.01	25.71	25.73
Power (dBm/1MHz)	2	25.82	26.27	25.93	25.90
(ubiti/ tivii iz)	3	25.92	26.52	25.96	26.07
Total MIMO Conducted Power (mW/1MHz)		1499.40	1674.17	1527.10	1548.68
	Total MIMO Conducted Power (dBm/1MHz)		32.24	31.84	31.90
Ant.	. Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	44.26	44.74	44.34	44.40
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Lii	mit(dBm/1MHz)	62.15	62.15	62.15	62.15
Ma	argin (dB)	-17.89	-17.41	-17.81	-17.75

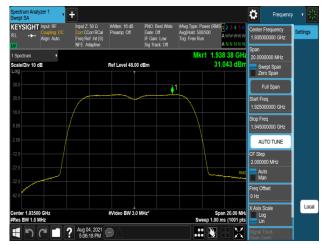
Table 7-109. Peak Power Spectral Density Table (B2_10M+20M_2C - Mid Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
0	0	25.79	25.99	25.84	25.76
Conducted	1	25.68	25.90	25.56	25.57
Power (dBm/1MHz)	2	25.89	26.05	25.83	25.90
(UDITI/TIVILIZ)	3	26.04	26.23	25.96	26.09
Total MIMO Conducted Power (mW/1MHz)		1537.84	1608.13	1519.43	1532.25
Total MIMO Conducted Power (dBm/1MHz)		31.87	32.06	31.82	31.85
Ant.	Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	44.37	44.56	44.32	44.35
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Liı	mit(dBm/1MHz)	62.15	62.15	62.15	62.15
Ma	argin (dB)	-17.78	-17.59	-17.83	-17.80

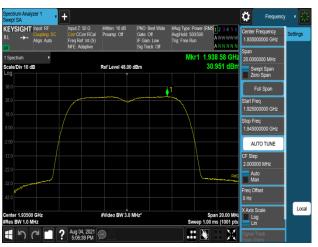
Table 7-110. Peak Power Spectral Density Table (B2_10M+20M_2C - High Channel)

FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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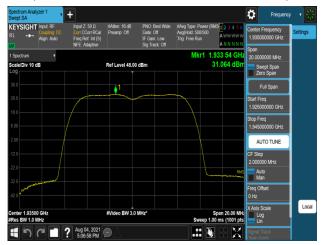




Plot 7-577. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - Low Channel, Port 0)



Plot 7-578. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - Low Channel, Port 1)



Plot 7-579. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - Low Channel, Port 2)



Plot 7-580. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - Low Channel, Port 3)



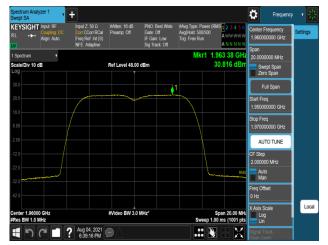
Plot 7-581. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - Mid Channel, Port 0)



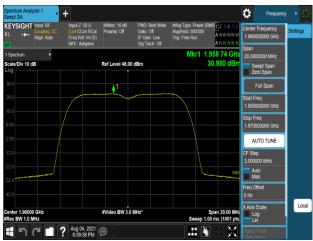
Plot 7-582. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - Mid Channel, Port 1)

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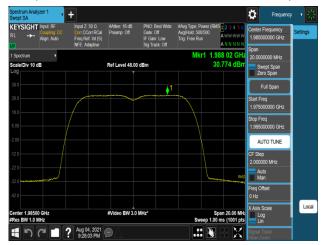




Plot 7-583. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - Mid Channel, Port 2)



Plot 7-584. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - Mid Channel, Port 3)



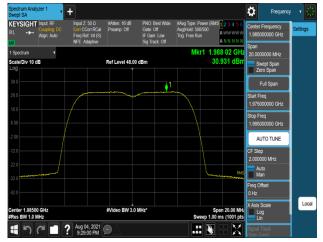
Plot 7-585. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - High Channel, Port 0)



Plot 7-586. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - High Channel, Port 1)



Plot 7-587. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - High Channel, Port 2)



Plot 7-588. Peak Power Spectral Density Plot (B2_5M+5M_2C_16QAM - High Channel, Port 3)

FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-589. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - Low Channel, Port 0)



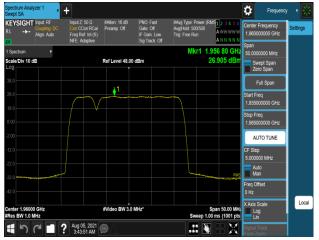
Plot 7-590. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - Low Channel, Port 1)



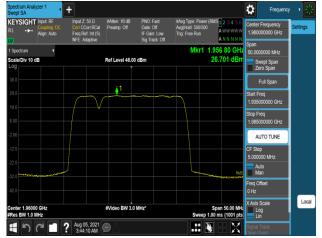
Plot 7-591. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - Low Channel, Port 2)



Plot 7-592. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - Low Channel, Port 3)



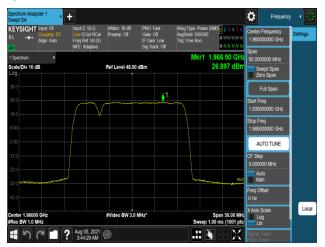
Plot 7-593. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - Mid Channel, Port 0)



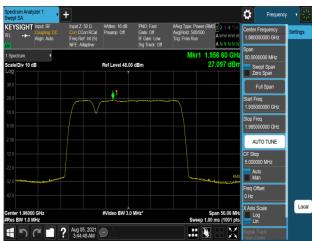
Plot 7-594. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - Mid Channel, Port 1)

FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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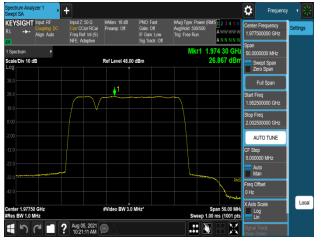




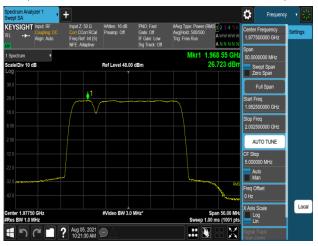
Plot 7-595. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - Mid Channel, Port 2)



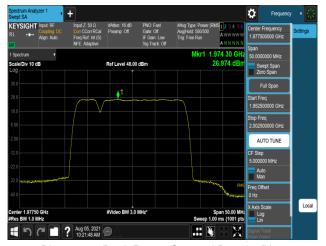
Plot 7-596. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - Mid Channel, Port 3)



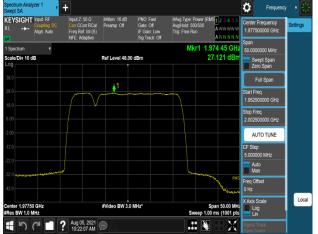
Plot 7-597. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - High Channel, Port 0)



Plot 7-598. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - High Channel, Port 1)



Plot 7-599. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - High Channel, Port 2)



Plot 7-600. Peak Power Spectral Density Plot (B2_5M+20M_2C_16QAM - High Channel, Port 3)

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Plot 7-601. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM - Low Channel, Port 0)



Plot 7-602. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM - Low Channel, Port 1)



Plot 7-603. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM - Low Channel, Port 2)



Plot 7-604. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM - Low Channel, Port 3)



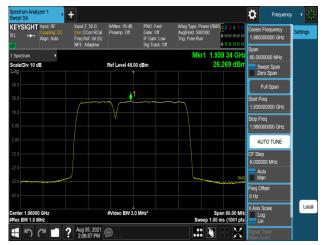
Plot 7-605. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM – Mid Channel, Port 0)



Plot 7-606. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM – Mid Channel, Port 1)

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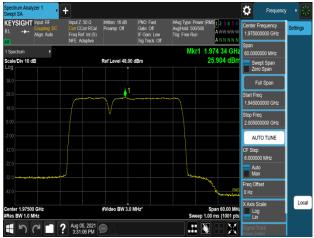
Plot 7-607. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM - Mid Channel, Port 2)



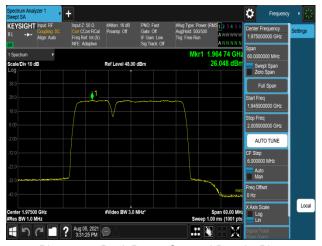
Plot 7-608. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM - Mid Channel, Port 3)



Plot 7-609. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM - High Channel, Port 0)



Plot 7-610. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM - High Channel, Port 1)



Plot 7-611. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM - High Channel, Port 2)



Plot 7-612. Peak Power Spectral Density Plot (B2_10M+20M_2C_16QAM - High Channel, Port 3)

FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
O a sa alconata al	0	28.79	29.36	29.03	28.87
Conducted	1	28.78	29.23	28.78	28.83
Power (dBm/1MHz)	2	28.84	29.28	29.01	28.84
(ubiti/ fivil iz)	3	29.13	29.32	29.02	29.05
	MO Conducted r (mW/1MHz)	3096.74	3402.41	3148.20	3103.49
Total MIMO Conducted Power (dBm/1MHz)		34.91	35.32	34.98	34.92
Ant.	Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	47.41	47.82	47.48	47.42
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Ma	argin (dB)	-14.74	-14.33	-14.67	-14.73

Table 7-111. Peak Power Spectral Density Table (B2_5M+5M+5M_3C - Low Channel)

Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
0	0	28.84	29.12	28.82	28.75
Conducted	1	28.59	28.98	28.64	28.67
Power (dBm/1MHz)	2	28.77	29.25	28.99	28.80
(ubiti/ fiviriz)	3	28.85	29.28	28.88	29.02
	MO Conducted r (mW/1MHz)	3007.54	3296.09	3058.62	3043.20
Total MIMO Conducted Power (dBm/1MHz)		34.78	35.18	34.86	34.83
Ant.	. Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	47.28	47.68	47.36	47.33
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Ma	argin (dB)	-14.87	-14.47	-14.79	-14.82

Table 7-112. Peak Power Spectral Density Table (B2_5M+5M+5M_3C - Mid Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	28.94	29.14	28.79	28.83
Conducted	1	28.73	29.04	28.65	28.71
Power (dBm/1MHz)	2	28.77	29.19	28.75	28.83
(dDITI/TIVILIZ)	3	29.01	29.29	28.89	28.99
	MO Conducted r (mW/1MHz)	3078.54	3298.41	3013.14	3061.98
Total MIMO Conducted Power (dBm/1MHz)		34.88	35.18	34.79	34.86
Ant.	Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	47.38	47.68	47.29	47.36
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Ma	argin (dB)	-14.76	-14.47	-14.86	-14.79

Table 7-113. Peak Power Spectral Density Table (B2_5M+5M+5M_3C - High Channel)

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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
O a sa alconata al	0	25.95	26.12	25.73	25.87
Conducted	1	25.76	25.92	25.62	25.85
Power (dBm/1MHz)	2	25.80	26.13	25.65	25.90
(ubiti/ fivil iz)	3	25.98	26.29	25.85	25.94
	MO Conducted r (mW/1MHz)	1546.73	1636.50	1490.66	1551.58
	MO Conducted (dBm/1MHz)	31.89	32.14	31.73	31.91
Ant.	Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EI	RP(dBm/1MHz)	44.39	44.64	44.23	44.41
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Ma	argin (dB)	-17.75	-17.51	-17.91	-17.74

Table 7-114. Peak Power Spectral Density Table (B2_5M+5M+20M_3C - Low Channel)

Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	25.67	26.11	25.82	25.82
	1	25.67	26.33	25.80	25.83
	2	25.92	26.03	25.86	25.84
	3	25.93	26.27	26.00	26.01
Total MIMO Conducted Power (mW/1MHz)		1520.62	1662.57	1546.26	1546.87
Total MIMO Conducted Power (dBm/1MHz)		31.82	32.21	31.89	31.89
Ant.	. Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		44.32	44.71	44.39	44.39
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-17.83	-17.44	-17.76	-17.75

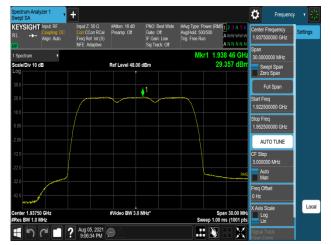
Table 7-115. Peak Power Spectral Density Table (B2_5M+5M+20M_3C - Mid Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	25.63	26.17	25.97	25.70
	1	25.62	25.97	25.78	25.86
	2	25.73	26.18	25.78	25.78
	3	25.92	26.27	25.86	25.98
Total MIMO Conducted Power (mW/1MHz)		1493.58	1647.11	1538.25	1530.86
Total MIMO Conducted Power (dBm/1MHz)		31.74	32.17	31.87	31.85
Ant.	Gain (dBi)	12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		44.24	44.67	44.37	44.35
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-17.91	-17.48	-17.78	-17.80

Table 7-116. Peak Power Spectral Density Table (B2_5M+5M+20M_3C - High Channel)

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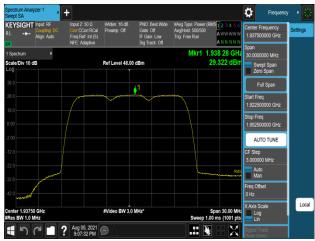
Plot 7-613. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - Low Channel, Port 0)



Plot 7-614. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - Low Channel, Port 1)



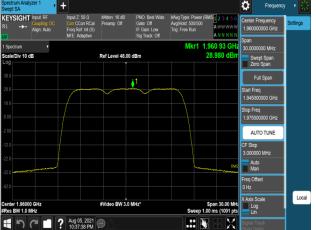
Plot 7-615. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - Low Channel, Port 2)



Plot 7-616. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - Low Channel, Port 3)



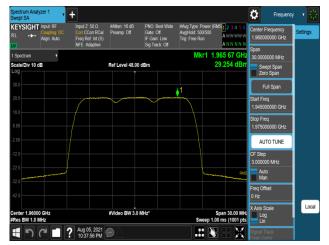
Plot 7-617. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - Mid Channel, Port 0)



Plot 7-618. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - Mid Channel, Port 1)

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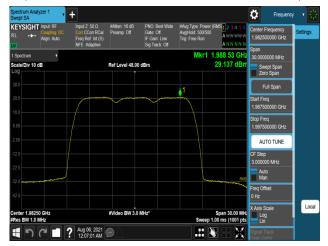




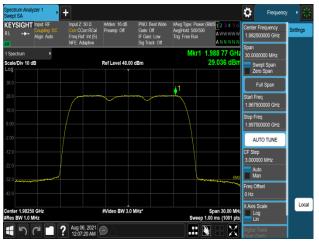
Plot 7-619. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - Mid Channel, Port 2)



Plot 7-620. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - Mid Channel, Port 3)



Plot 7-621. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - High Channel, Port 0)



Plot 7-622. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - High Channel, Port 1)



Plot 7-623. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - High Channel, Port 2)



Plot 7-624. Peak Power Spectral Density Plot (B2_5M+5M+5M_3C_16QAM - High Channel, Port 3)

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