

Low Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.44	40.51	40.50	40.42
Conducted Average	1	40.33	40.38	40.33	40.29
Power (dBm)	2	40.58	40.63	40.63	40.54
	3	40.50	40.57	40.43	40.48
Total MIMO Conducted Power (mW)		44504.67	45124.07	44611.56	44198.58
Total MIMO Conducted Power (dBm)		46.48	46.54	46.49	46.45

Table 7-51. Conducted Average Output Power Table (B66_5M_1C - Low Channel)

Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.80	40.70	40.75	40.63
Conducted Average	1	40.59	40.58	40.55	40.50
Power (dBm)	2	40.87	40.84	40.77	40.71
	3	40.73	40.77	40.77	40.66
Total MIMO Conducted Power (mW)		47526.19	47251.53	47114.89	46198.63
Total MIMO Conducted Power (dBm)		46.77	46.74	46.73	46.65

Table 7-52. Conducted Average Output Power Table (B66_5M_1C - Middle Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.79	40.82	40.80	40.79
Conducted Average	1	40.57	40.66	40.63	40.61
Power (dBm)	2	40.78	40.79	40.83	40.75
	3	40.77	40.76	40.74	40.76
Total MIMO Conducted Power (mW)		47304.78	47626.81	47547.44	47300.44
Total MIMO Conducted Power (dBm)		46.75	46.78	46.77	46.75

Table 7-53. Conducted Average Output Power Table (B66_5M_1C - High Channel)

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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.69	40.66	40.70	40.71
Conducted Average	1	40.41	40.54	40.49	40.52
Power (dBm)	2	40.68	40.65	40.71	40.75
	3	40.72	40.67	40.75	40.76
Total MIMO Conducted Power (mW)		46210.21	46247.85	46604.44	46845.48
Total MIMO Conducted Power (dBm)		46.65	46.65	46.68	46.71

Table 7-54. Conducted Average Output Power Table (B66_10M_1C - Low Channel)

Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.80	40.65	40.78	40.65
Conducted Average	1	40.52	40.61	40.57	40.59
Power (dBm)	2	40.78	40.81	40.92	40.89
	3	40.78	40.81	40.86	40.86
Total MIMO Conducted Power (mW)		47229.43	47223.21	47919.27	47533.90
Total MIMO Conducted Power (dBm)		46.74	46.74	46.81	46.77

Table 7-55. Conducted Average Output Power Table (B66_10M_1C - Middle Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.78	40.83	40.92	40.89
Conducted Average	1	40.60	40.67	40.70	40.74
Power (dBm)	2	40.80	40.77	40.92	40.92
	3	40.78	40.80	40.89	40.89
Total MIMO Conducted Power (mW)		47438.99	47736.60	48742.32	48765.95
Total MIMO Conducted Power (dBm)		46.76	46.79	46.88	46.88

Table 7-56. Conducted Average Output Power Table (B66_10M_1C - High Channel)

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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.58	40.68	40.62	40.61
Conducted Average	1	40.45	40.48	40.42	40.45
Power (dBm)	2	40.60	40.67	40.71	40.67
	3	40.64	40.76	40.72	40.67
Total MIMO Conducted Power (mW)		45589.84	46444.14	46129.19	45935.94
Total MIMO Conducted Power (dBm)		46.59	46.67	46.64	46.62

Table 7-57. Conducted Average Output Power Table (B66_15M_1C - Low Channel)

Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.65	40.77	40.70	40.58
Conducted Average	1	40.49	40.59	40.57	40.53
Power (dBm)	2	40.80	40.97	40.88	40.79
	3	40.75	40.78	40.78	40.75
Total MIMO Conducted Power (mW)		46716.53	47865.01	47365.04	46606.76
Total MIMO Conducted Power (dBm)		46.69	46.80	46.75	46.68

Table 7-58. Conducted Average Output Power Table (B66_15M_1C - Middle Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.82	40.81	40.76	40.82
Conducted Average	1	40.65	40.68	40.64	40.69
Power (dBm)	2	40.74	40.93	40.83	40.91
	3	40.77	40.90	40.84	40.83
Total MIMO Conducted Power (mW)		47490.19	48436.01	47740.06	48237.12
Total MIMO Conducted Power (dBm)		46.77	46.85	46.79	46.83

Table 7-59. Conducted Average Output Power Table (B66_15M_1C - High Channel)

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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.65	40.60	40.54	40.52
Conducted Average	1	40.37	40.40	40.33	40.27
Power (dBm)	2	40.58	40.65	40.55	40.53
	3	40.61	40.64	40.58	40.57
Total MIMO Conducted Power (mW)		45440.57	45648.58	44892.36	44613.86
Total MIMO Conducted Power (dBm)		46.57	46.59	46.52	46.49

Table 7-60. Conducted Average Output Power Table (B66_20M_1C - Low Channel)

Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.57	40.55	40.74	40.56
Conducted Average	1	40.47	40.49	40.54	40.47
Power (dBm)	2	40.62	40.75	40.78	40.65
	3	40.60	40.68	40.67	40.64
Total MIMO Conducted Power (mW)		45561.51	46124.50	46817.19	45721.48
Total MIMO Conducted Power (dBm)		46.59	46.64	46.70	46.60

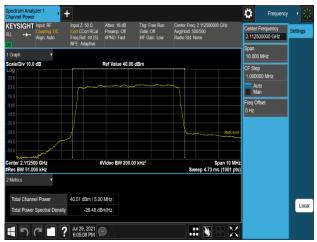
Table 7-61. Conducted Average Output Power Table (B66_20M_1C - Middle Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.75	40.79	40.69	40.78
Conducted Average	1	40.56	40.64	40.60	40.63
Power (dBm)	2	40.75	40.72	40.71	40.70
	3	40.67	40.73	40.73	40.78
Total MIMO Conducted Power (mW)		46814.41	47216.39	46809.97	47244.91
Total MIMO Conducted Power (dBm)		46.70	46.74	46.70	46.74

Table 7-62. Conducted Average Output Power Table (B66_20M_1C - High Channel)

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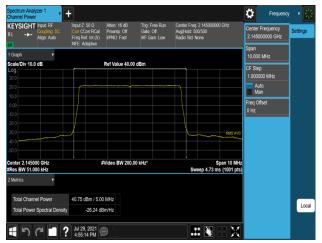


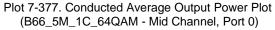


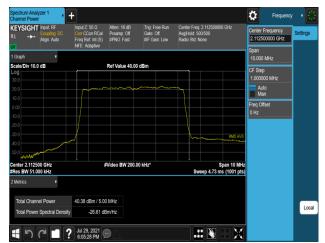
Plot 7-373. Conducted Average Output Power Plot (B66_5M_1C_16QAM - Low Channel, Port 0)



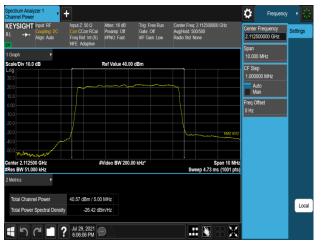
Plot 7-375. Conducted Average Output Power Plot (B66_5M_1C_16QAM - Low Channel, Port 2)



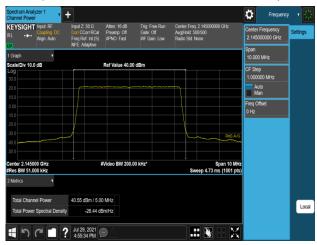




Plot 7-374. Conducted Average Output Power Plot (B66_5M_1C_16QAM - Low Channel, Port 1)



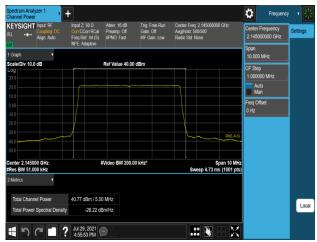
Plot 7-376. Conducted Average Output Power Plot (B66_5M_1C_16QAM - Low Channel, Port 3)



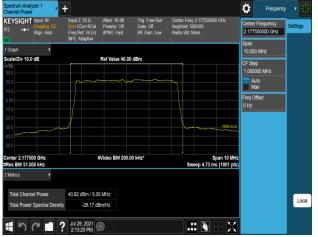
Plot 7-378. Conducted Average Output Power Plot (B66_5M_1C_64QAM - Mid Channel, Port 1)

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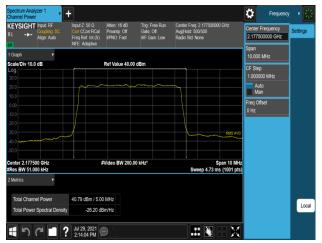


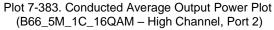


Plot 7-379. Conducted Average Output Power Plot (B66_5M_1C_64QAM - Mid Channel, Port 2)



Plot 7-381. Conducted Average Output Power Plot (B66_5M_1C_16QAM – High Channel, Port 0)







Plot 7-380. Conducted Average Output Power Plot (B66_5M_1C_64QAM - Mid Channel, Port 3)



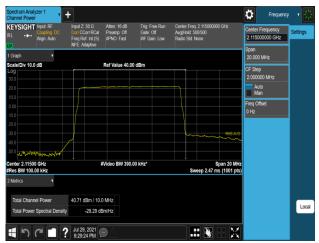
Plot 7-382. Conducted Average Output Power Plot (B66_5M_1C_16QAM – High Channel, Port 1)



Plot 7-384. Conducted Average Output Power Plot (B66_5M_1C_16QAM – High Channel, Port 3)

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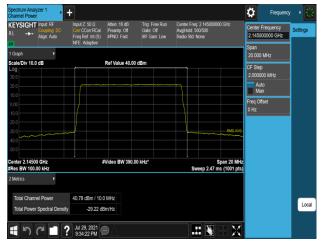


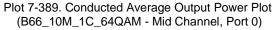


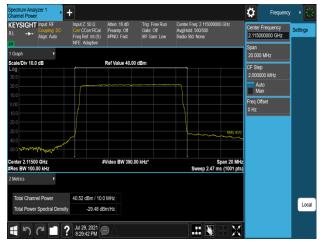
Plot 7-385. Conducted Average Output Power Plot (B66_10M_1C_256QAM - Low Channel, Port 0)



Plot 7-387. Conducted Average Output Power Plot (B66_10M_1C_256QAM - Low Channel, Port 2)







Plot 7-386. Conducted Average Output Power Plot (B66_10M_1C_256QAM - Low Channel, Port 1)



Plot 7-388. Conducted Average Output Power Plot (B66_10M_1C_256QAM - Low Channel, Port 3)



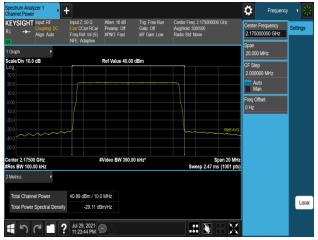
Plot 7-390. Conducted Average Output Power Plot (B66_10M_1C_64QAM - Mid Channel, Port 1)

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Spectrum Analyzer 1 Channel Power	• +					Frequency	- 1 ※
KEYSIGHT Input: RF RL ++ Coupling DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Adaptive	Atten: 16 dB Preamp: Off #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.14500000 Avg Hold: 500/500 Radio Std: None) GHz	Center Frequency 2.145000000 GHz Span	Settings
1 Graph 🔹						20.000 MHz	
Scale/Div 10.0 dB Log 30.0 20.0		Ref Value 40.00				CF Step 2.000000 MHz Auto Man	
10.0						Freq Offset 0 Hz	
-20.0 -30.0 -40.0					RMS AVG		
-50.0 Center 2.14500 GHz #Res BW 100.00 kHz		Video BW 390.0	10 kHz*	Sweep 2.47 m	pan 20 MHz s (1001 pts)		
2 Metrics •							
Total Channel Power	40.92 dBm / 10.0) MHz					
Total Power Spectral De	nsity -29.08 dE	8m/Hz					Local
1 50 1	Jul 29, 2021 9:34:58 PM	ÐA			X		

Plot 7-391. Conducted Average Output Power Plot (B66_10M_1C_64QAM - Mid Channel, Port 2)



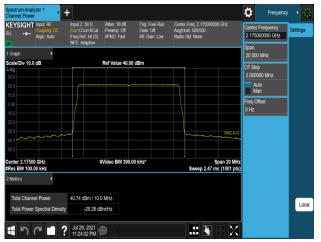
Plot 7-393. Conducted Average Output Power Plot (B66_10M_1C_256QAM – High Channel, Port 0)



Plot 7-395. Conducted Average Output Power Plot (B66_10M_1C_256QAM – High Channel, Port 2)



Plot 7-392. Conducted Average Output Power Plot (B66_10M_1C_64QAM - Mid Channel, Port 3)



Plot 7-394. Conducted Average Output Power Plot (B66_10M_1C_256QAM – High Channel, Port 1)



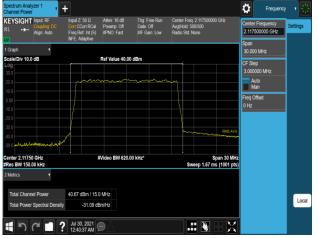
Plot 7-396. Conducted Average Output Power Plot (B66_10M_1C_256QAM – High Channel, Port 3)

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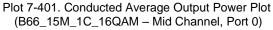


Plot 7-397. Conducted Average Output Power Plot (B66_15M_1C_16QAM - Low Channel, Port 0)



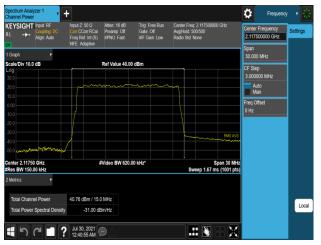
Plot 7-399. Conducted Average Output Power Plot (B66_15M_1C_16QAM - Low Channel, Port 2)







Plot 7-398. Conducted Average Output Power Plot (B66_15M_1C_16QAM - Low Channel, Port 1)



Plot 7-400. Conducted Average Output Power Plot (B66_15M_1C_16QAM - Low Channel, Port 3)



Plot 7-402. Conducted Average Output Power Plot (B66_15M_1C_16QAM – Mid Channel, Port 1)

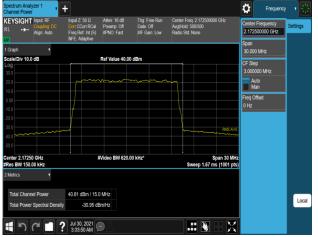
FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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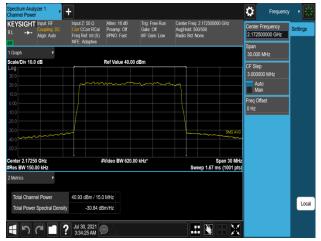


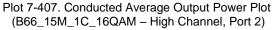


Plot 7-403. Conducted Average Output Power Plot (B66_15M_1C_16QAM – Mid Channel, Port 2)



Plot 7-405. Conducted Average Output Power Plot (B66_15M_1C_16QAM – High Channel, Port 0)







Plot 7-404. Conducted Average Output Power Plot (B66_15M_1C_16QAM – Mid Channel, Port 3)



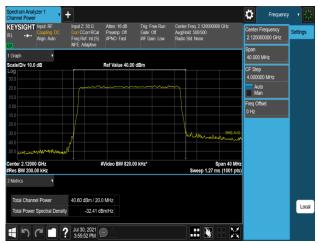
Plot 7-406. Conducted Average Output Power Plot (B66_15M_1C_16QAM – High Channel, Port 1)



Plot 7-408. Conducted Average Output Power Plot (B66_15M_1C_16QAM – High Channel, Port 3)

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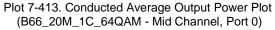


Plot 7-409. Conducted Average Output Power Plot (B66_20M_1C_16QAM - Low Channel, Port 0)



Plot 7-411. Conducted Average Output Power Plot (B66_20M_1C_16QAM - Low Channel, Port 2)







Plot 7-410. Conducted Average Output Power Plot (B66_20M_1C_16QAM - Low Channel, Port 1)



Plot 7-412. Conducted Average Output Power Plot (B66_20M_1C_16QAM - Low Channel, Port 3)



Plot 7-414. Conducted Average Output Power Plot (B66_20M_1C_64QAM - Mid Channel, Port 1)

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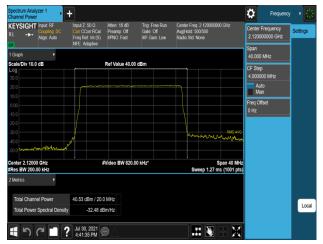


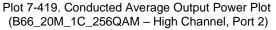


Plot 7-415. Conducted Average Output Power Plot (B66_20M_1C_64QAM - Mid Channel, Port 2)



Plot 7-417. Conducted Average Output Power Plot (B66_20M_1C_256QAM – High Channel, Port 0)







Plot 7-416. Conducted Average Output Power Plot (B66_20M_1C_64QAM - Mid Channel, Port 3)



Plot 7-418. Conducted Average Output Power Plot (B66_20M_1C_256QAM – High Channel, Port 1)



Plot 7-420. Conducted Average Output Power Plot (B66_20M_1C_256QAM – High Channel, Port 3)

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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.50	40.47	40.58	40.53
Conducted Average	1	40.12	40.23	40.13	40.28
Power (dBm)	2	40.30	40.26	40.30	40.24
	3	40.56	40.64	40.61	40.56
Total MIMO Conducted Power (mW)		43591.81	43891.54	43955.84	43908.37
Total MIMO Conducted Power (dBm)		46.39	46.42	46.43	46.43

Table 7-63. Conducted Average Output Power Table (B66_5M+5M_2C - Low Channel)

Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.65	40.62	40.68	40.69
Conducted Average	1	40.34	40.33	40.30	40.26
Power (dBm)	2	40.37	40.41	40.44	40.35
	3	40.56	40.55	40.56	40.56
Total MIMO Conducted Power (mW)		44694.40	44664.17	44852.70	44554.45
Total MIMO Conducted Power (dBm)		46.50	46.50	46.52	46.49

Table 7-64. Conducted Average Output Power Table (B66_5M+5M_2C - Middle Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.82	40.75	40.74	40.78
Conducted Average	1	40.46	40.49	40.49	40.49
Power (dBm)	2	40.43	40.44	40.48	40.48
	3	40.66	40.69	40.71	40.65
Total MIMO Conducted Power (mW)		45877.50	45867.59	45996.76	45944.90
Total MIMO Conducted Power (dBm)		46.62	46.62	46.63	46.62

Table 7-65. Conducted Average Output Power Table (B66_5M+5M_2C - High Channel)

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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.39	40.40	40.38	40.39
Conducted Average	1	40.13	40.22	40.25	40.13
Power (dBm)	2	40.24	40.19	40.13	40.16
	3	40.42	40.45	40.44	40.44
Total MIMO Conducted Power (mW)		42826.99	43023.35	42877.04	42684.95
Total MIMO Conducted Power (dBm)		46.32	46.34	46.32	46.30

Table 7-66. Conducted Average Output Power Table (B66_5M+20M_2C - Low Channel)

Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.52	40.56	40.55	40.52
Conducted Average	1	40.30	40.23	40.36	40.30
Power (dBm)	2	40.30	40.37	40.32	40.31
	3	40.55	40.55	40.62	40.53
Total MIMO Conducted Power (mW)		44052.47	44159.55	44513.55	44025.02
Total MIMO Conducted Power (dBm)		46.44	46.45	46.48	46.44

Table 7-67. Conducted Average Output Power Table (B66_5M+20M_2C - Middle Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.65	40.60	40.62	40.57
Conducted Average	1	40.40	40.42	40.43	40.40
Power (dBm)	2	40.42	40.38	40.44	40.44
	3	40.69	40.64	40.72	40.64
Total MIMO Conducted Power (mW)		45316.61	44999.11	45444.76	45021.29
Total MIMO Conducted Power (dBm)		46.56	46.53	46.57	46.53

Table 7-68. Conducted Average Output Power Table (B66_5M+20M_2C - High Channel)

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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.55	40.50	40.48	40.51
Conducted Average	1	40.30	40.28	40.26	40.30
Power (dBm)	2	40.32	40.27	40.33	40.33
	3	40.57	40.58	40.56	40.59
Total MIMO Conducted Power (mW)		44232.45	43956.36	43951.33	44205.84
Total MIMO Conducted Power (dBm)		46.46	46.43	46.43	46.45

Table 7-69. Conducted Average Output Power Table (B66_20M+20M_2C - Low Channel)

Middle Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.68	40.62	40.61	40.60
Conducted Average	1	40.40	40.41	40.33	40.29
Power (dBm)	2	40.35	40.36	40.36	40.33
	3	40.64	40.70	40.58	40.71
Total MIMO Conducted Power (mW)		45086.82	45137.82	44590.51	44737.61
Total MIMO Conducted Power (dBm)		46.54	46.55	46.49	46.51

Table 7-70. Conducted Average Output Power Table (B66_20M+20M_2C - Middle Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
	0	40.59	40.61	40.63	40.62
Conducted Average	1	40.37	40.42	40.43	40.41
Power (dBm)	2	40.40	40.44	40.58	40.45
	3	40.72	40.70	40.69	40.69
Total MIMO Conducted Power (mW)		45112.42	45338.61	45752.65	45338.29
Total MIMO Conducted Power (dBm)		46.54	46.56	46.60	46.56

Table 7-71. Conducted Average Output Power Table (B66_20M+20M_2C - High Channel)

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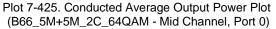
KEYSIGHT Input: RF RL ↔ Coupling: AC Align: Auto	Input Z: 50 Ω Corrections: On Freq Ref: Int (S)	Atten: 16 dB #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.115000 Avg Hold: 500/500 Radio Std: None	100 GHz	Center Frequency 2.115000000 GHz	Settings
1 Graph 🔹						Span 20.000 MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 2.000000 MHz Auto	
						Man Freq Offset 0 Hz	
20.0					RMS AVG		
50.0 Center 2.11500 GHz Res BW 100.00 kHz		Video BW 390.0	0 kHz*	Sweep 2.47	Span 20 MH		
2 Metrics V				Sweep 2.4/	ms (1001 pts		
Total Channel Power	40.58 dBm / 10.0	MHz					
Total Power Spectral Densit	-29.42 dB	lm/Hz					
1 1 1 1 1 1 1	Aug 04, 2021 5:49:12 AM				ΗX		

Plot 7-421. Conducted Average Output Power Plot (B66_5M+5M_2C_16QAM - Low Channel, Port 0)



Plot 7-423. Conducted Average Output Power Plot (B66_5M+5M_2C_16QAM - Low Channel, Port 2)







Plot 7-422. Conducted Average Output Power Plot (B66_5M+5M_2C_16QAM - Low Channel, Port 1)



Plot 7-424. Conducted Average Output Power Plot (B66_5M+5M_2C_16QAM - Low Channel, Port 3)



Plot 7-426. Conducted Average Output Power Plot (B66_5M+5M_2C_ 64QAM - Mid Channel, Port 1)

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Plot 7-427. Conducted Average Output Power Plot (B66_5M+5M_2C_64QAM - Mid Channel, Port 2)



Plot 7-429. Conducted Average Output Power Plot (B66_5M+5M_2C_64QAM – High Channel, Port 0)



Plot 7-431. Conducted Average Output Power Plot (B66_5M+5M_2C_64QAM – High Channel, Port 2)



Plot 7-428. Conducted Average Output Power Plot (B66_5M+5M_2C_64QAM - Mid Channel, Port 3)



Plot 7-430. Conducted Average Output Power Plot (B66 5M+5M 2C 64QAM – High Channel, Port 1)



Plot 7-432. Conducted Average Output Power Plot (B66_5M+5M_2C_64QAM – High Channel, Port 3)

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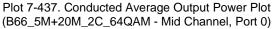


Plot 7-433. Conducted Average Output Power Plot (B66_5M+20M_2C_16QAM - Low Channel, Port 0)



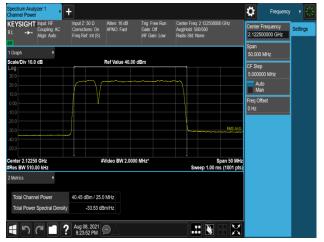
Plot 7-435. Conducted Average Output Power Plot (B66_5M+20M_2C_16QAM - Low Channel, Port 2)



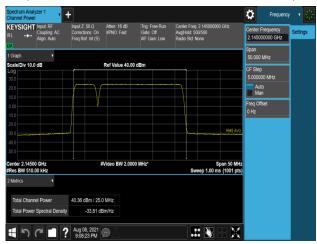




Plot 7-434. Conducted Average Output Power Plot (B66_5M+20M_2C_16QAM - Low Channel, Port 1)



Plot 7-436. Conducted Average Output Power Plot (B66_5M+20M_2C_16QAM - Low Channel, Port 3)



Plot 7-438. Conducted Average Output Power Plot (B66_5M+20M_2C_64QAM - Mid Channel, Port 1)

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