

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-03129-1
Page (69) / (480) pages

	18	18.94	18.92	18.96	18.97
	19	18.94	18.93	18.96	18.85
	20	18.93	18.93	18.95	18.92
	21	18.97	18.92	18.94	18.93
	22	18.96	18.96	18.87	18.97
	23	18.92	18.89	18.97	18.95
	24	18.96	18.88	18.95	18.86
	25	18.92	18.95	18.99	18.94
	26	18.87	18.90	18.82	18.96
	27	18.96	18.91	18.89	18.93
	28	19.01	18.94	18.89	18.93
	29	18.93	18.93	18.96	18.89
	30	18.97	18.95	18.88	18.95
	31	18.94	18.92	18.96	18.98
High	0	18.84	18.97	18.87	18.93
	1	19.01	18.97	18.94	18.93
	2	18.93	19.02	18.91	18.89
	3	18.92	18.82	18.92	18.91
	4	18.88	18.87	18.95	18.94
	5	18.95	18.95	18.95	18.91
	6	18.88	18.87	18.86	18.93
	7	18.92	18.95	18.92	18.95
	8	18.98	19.01	18.94	18.94
	9	18.98	18.90	18.92	18.99
	10	19.00	18.93	18.98	18.94
	11	18.85	18.85	18.97	18.91
	12	18.94	19.05	18.97	18.88
	13	18.99	18.88	18.91	18.93
	14	18.90	18.97	18.91	18.86
	15	18.93	18.98	18.93	18.98
	16	18.95	18.90	18.99	18.83
	17	18.96	18.89	18.93	18.93
	18	18.87	18.92	19.00	18.87
	19	18.87	18.89	19.01	18.90
	20	18.90	18.87	18.90	18.96
	21	18.88	18.98	18.90	18.90
	22	18.97	18.93	18.97	18.95
	23	18.95	18.85	18.96	18.90
	24	18.91	18.95	18.97	18.88
	25	18.95	18.93	18.94	18.91
	26	18.95	18.98	18.94	18.92
	27	18.94	18.86	18.95	18.95
	28	18.91	18.90	18.94	18.87
	29	18.93	18.96	18.98	18.90
	30	18.89	18.99	18.89	18.97
	31	18.98	18.97	18.95	18.96

Table 8-29. Occupied Bandwidth Summary Data (DSS_B/n66_1C_20M)

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-03129-1
Page (70) / (480) pages

Channel	Port	OBW (MHz)		Port	OBW (MHz)	
		LTE_B66_2C_10M+10M			LTE_B66_4C_5M+15M+20M+20M	
		QPSK	16QAM		QPSK	16QAM
Low	4	19.10	18.99	0	58.76	58.83
	7	19.07	19.05	3	58.84	58.88
	8	19.09	19.09	13	58.78	58.87
	25	19.08	19.07	14	58.71	58.76
Middle	4	19.08	19.13	0	58.80	58.79
	7	19.11	19.09	3	58.78	58.85
	8	19.10	19.08	13	58.80	58.78
	25	19.09	19.09	14	58.73	58.86
High	4	19.09	19.04	0	58.75	58.77
	7	19.09	19.13	3	58.74	58.70
	8	19.08	19.07	13	58.70	58.88
	25	19.12	19.07	14	58.77	58.83
Channel	Port	OBW (MHz)		Port	OBW (MHz)	
		NR_n66_2C_10M+10M			NR_n66_4C_5M+15M+20M+20M	
		QPSK	16QAM		QPSK	16QAM
Low	11	19.42	19.37	0	59.32	59.24
	12	19.38	19.41	7	59.31	59.35
	17	19.35	19.40	12	59.17	59.28
	18	19.42	19.38	13	59.33	59.26
Middle	11	19.39	19.42	0	59.30	59.36
	12	19.43	19.40	7	59.36	59.35
	17	19.37	19.44	12	59.33	59.33
	18	19.40	19.39	13	59.28	59.37
High	11	19.38	19.42	0	59.35	59.23
	12	19.41	19.45	7	59.24	59.36
	17	19.41	19.37	12	59.39	59.28
	18	19.40	19.41	13	59.32	59.21

Table 8-30. Occupied Bandwidth Summary Data (B/n66_Multi carrier_Configurations)

Channel	Port	OBW (MHz)		Port	OBW (MHz)	
		MSR_B/n66_3C_LTE 5M+NR 5M+DSS 10M			MSR_B/n66_4C_LTE 10M+NR 10M+NR 20M+DSS 20M	
		QPSK	16QAM		QPSK	16QAM
Low	2	19.47	19.49	1	59.00	59.15
	5	19.41	19.43	4	59.07	59.14
	9	19.45	19.42	12	59.06	59.21
	12	19.44	19.49	13	59.14	59.08
Middle	2	19.46	19.45	1	59.03	59.15
	5	19.44	19.48	4	59.13	59.02
	9	19.45	19.47	12	59.07	59.12
	12	19.38	19.43	13	59.11	59.04
High	2	19.38	19.51	1	58.92	59.07
	5	19.44	19.46	4	58.96	59.11
	9	19.45	19.49	12	59.06	59.08
	12	19.45	19.47	13	59.06	59.02

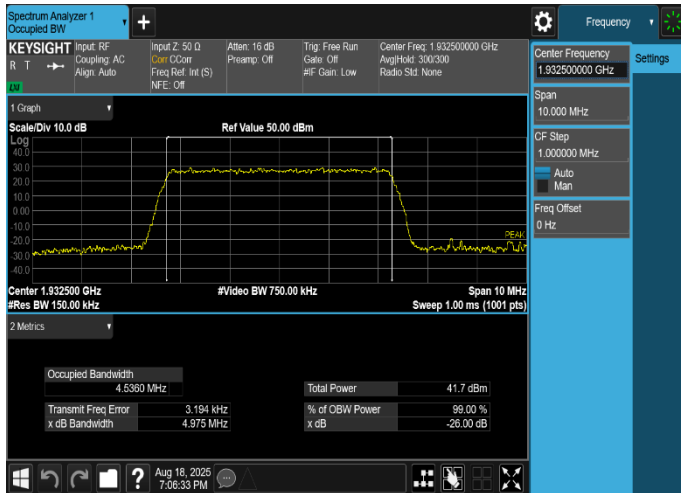
Table 8-31. Occupied Bandwidth Summary Data (B/n66_MSR_Configurations)



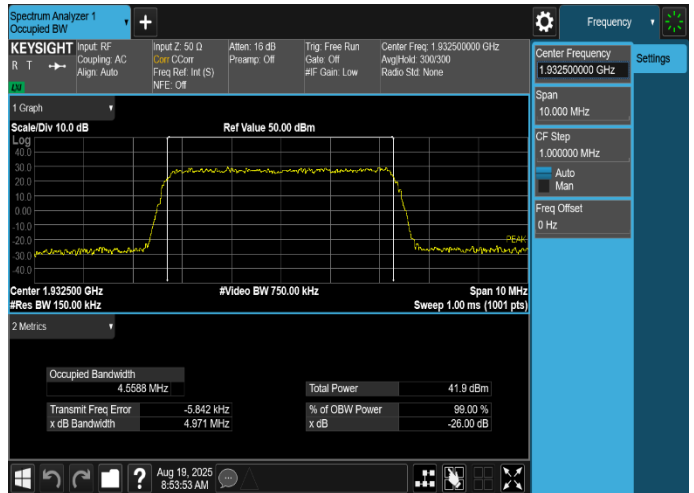
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

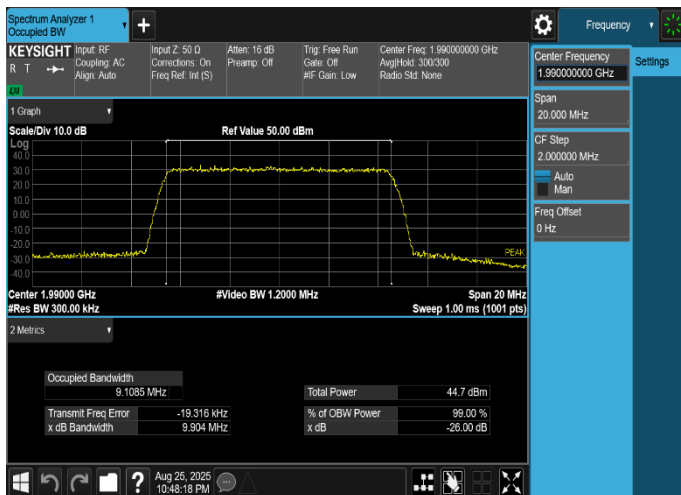
REPORT No.:
CTK-2025-03129-1
Page (71) / (480) pages



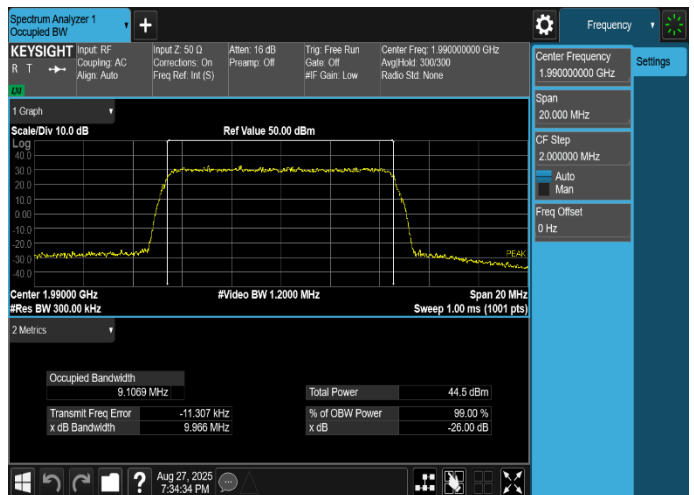
Plot 8-1. Occupied Bandwidth Plot
(LTE_B25_1C_5M_QPSK - Low Channel, Port 28)



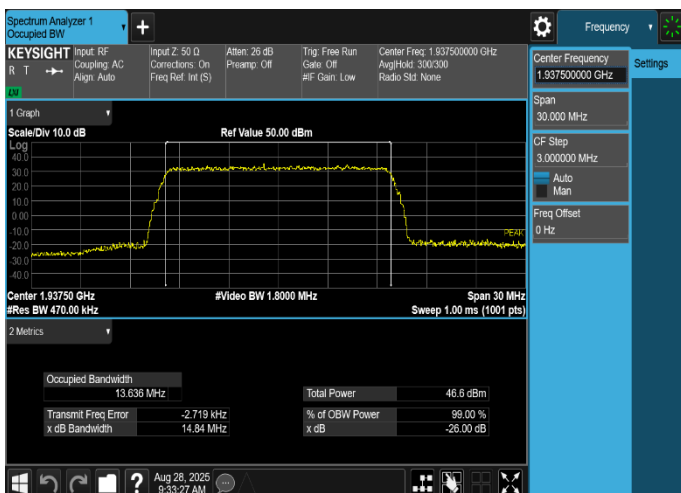
Plot 8-2. Occupied Bandwidth Plot
(LTE_B25_1C_5M_64QAM - Low Channel, Port 13)



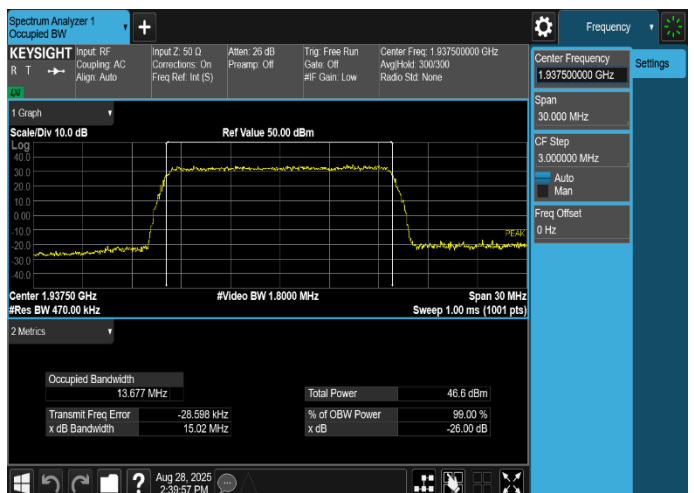
Plot 8-3. Occupied Bandwidth Plot
(LTE_B25_1C_10M_QPSK - High Channel, Port 30)



Plot 8-4. Occupied Bandwidth Plot
(LTE_B25_1C_10M_64QAM - High Channel, Port 7)



Plot 8-5. Occupied Bandwidth Plot
(LTE_B25_1C_15M_QPSK - Low Channel, Port 11)



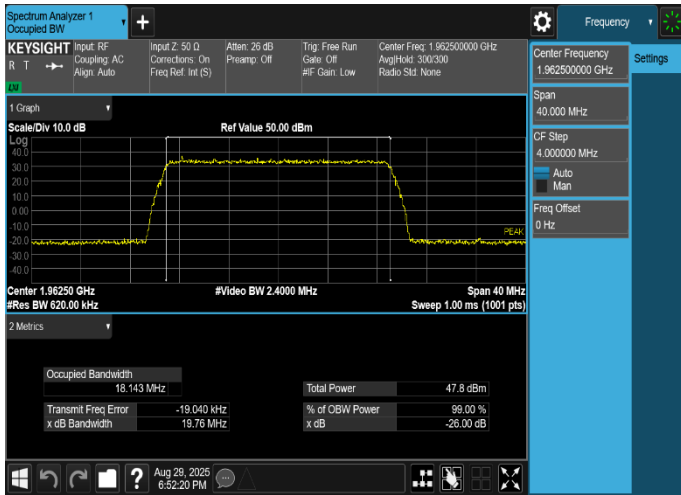
Plot 8-6. Occupied Bandwidth Plot
(LTE_B25_1C_15M_256QAM - Low Channel, Port 1)



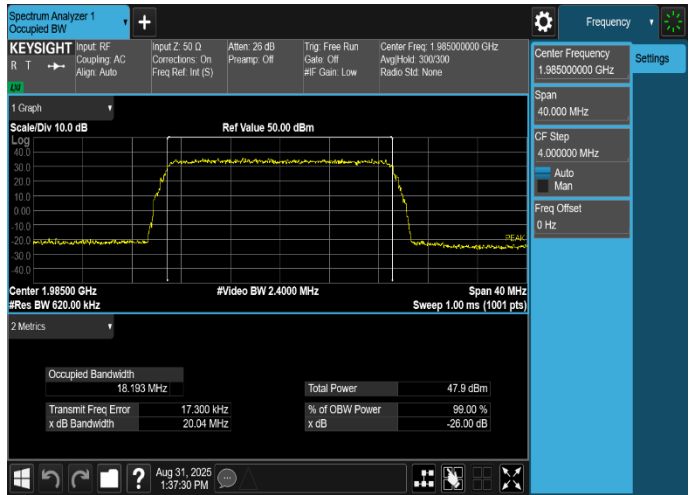
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-03129-1
Page (72) / (480) pages



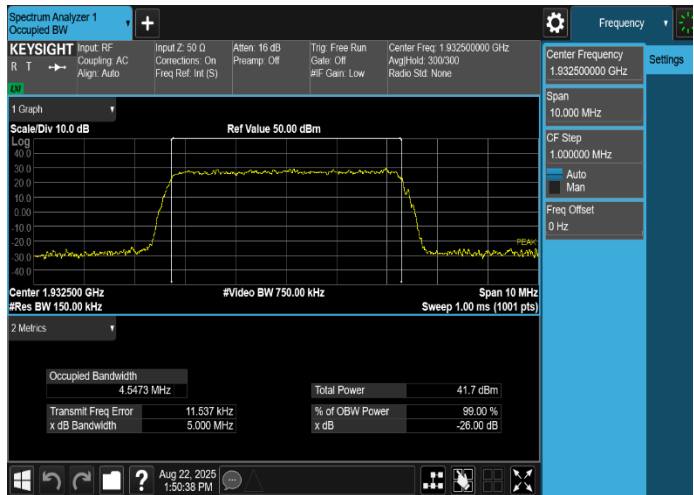
Plot 8-7. Occupied Bandwidth Plot
(LTE_B25_1C_20M_QPSK - Mid Channel, Port 11)



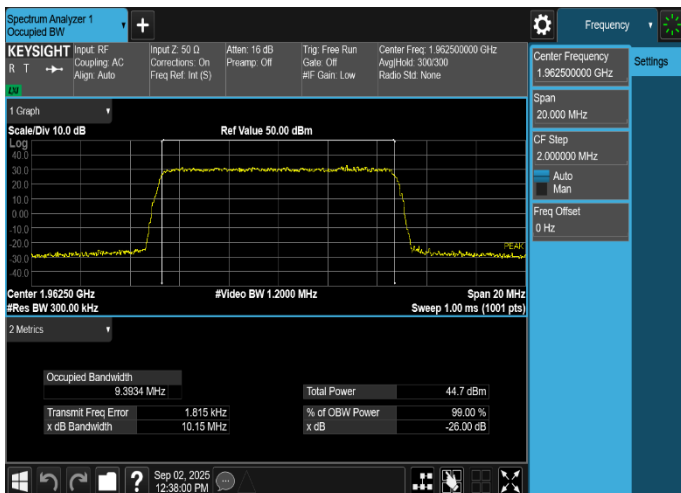
Plot 8-8. Occupied Bandwidth Plot
(LTE_B25_1C_20M_256QAM - High Channel, Port 29)



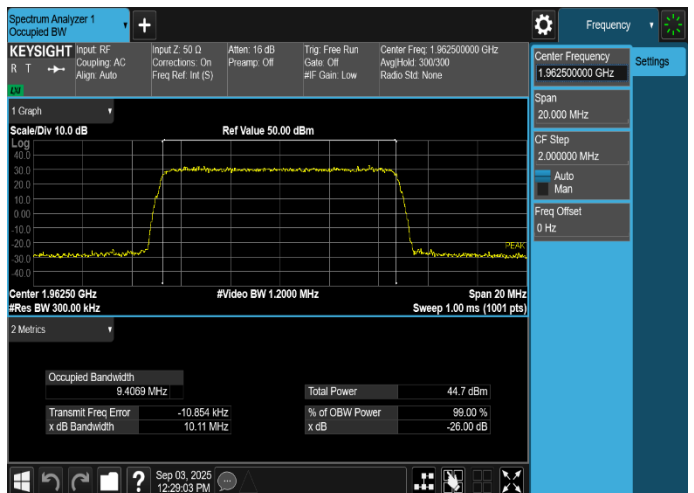
Plot 8-9. Occupied Bandwidth Plot
(NR_n25_1C_5M_QPSK - Low Channel, Port 8)



Plot 8-10. Occupied Bandwidth Plot
(NR_n25_1C_5M_256QAM - Low Channel, Port 1)



Plot 8-11. Occupied Bandwidth Plot
(NR_n25_1C_10M_QPSK - Mid Channel, Port 9)



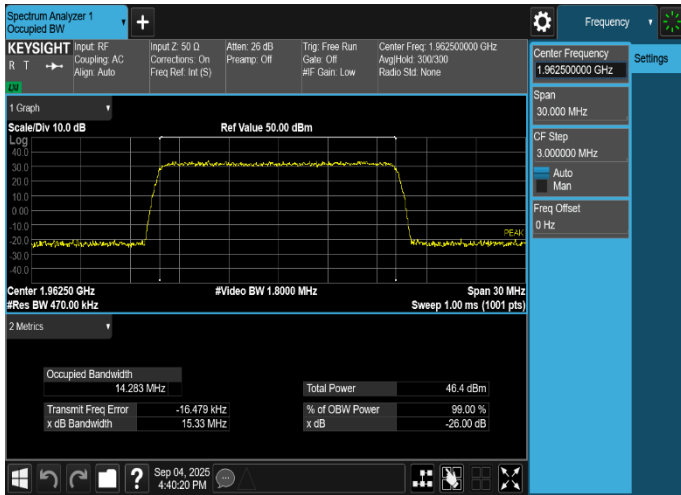
Plot 8-12. Occupied Bandwidth Plot
(NR_n25_1C_10M_64QAM - Mid Channel, Port 6)



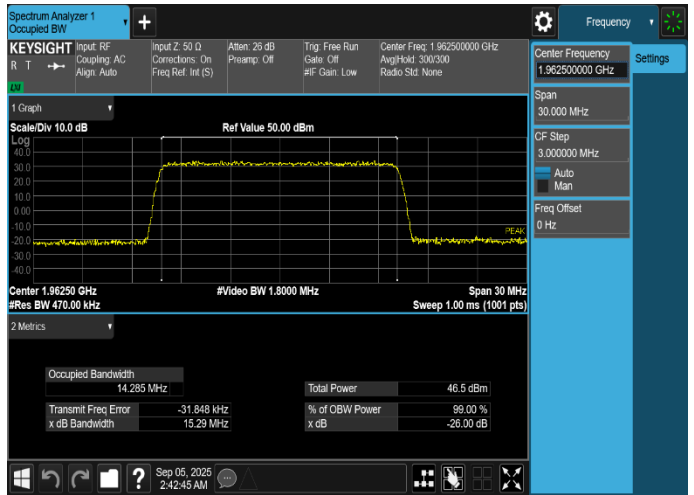
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

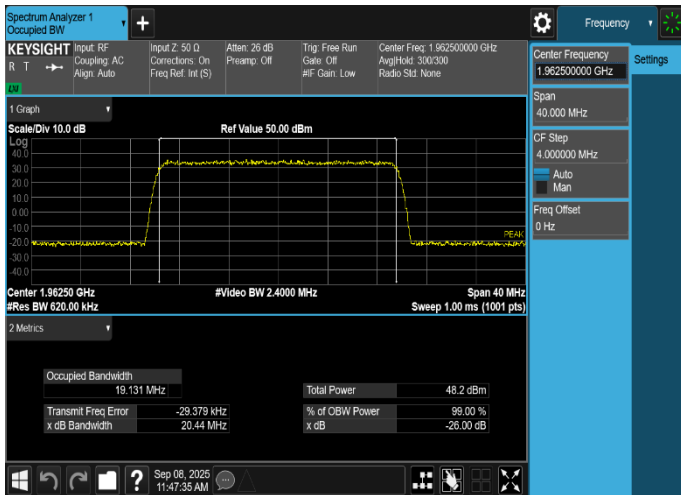
REPORT No.:
CTK-2025-03129-1
Page (73) / (480) pages



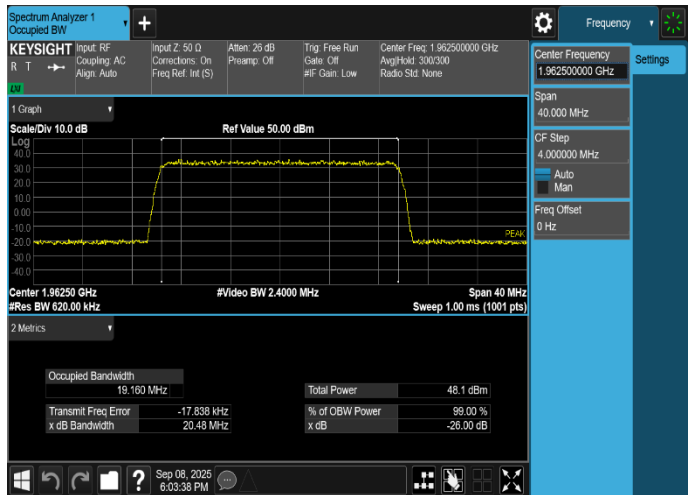
Plot 8-13. Occupied Bandwidth Plot
(NR_n25_1C_15M_QPSK - Mid Channel, Port 5)



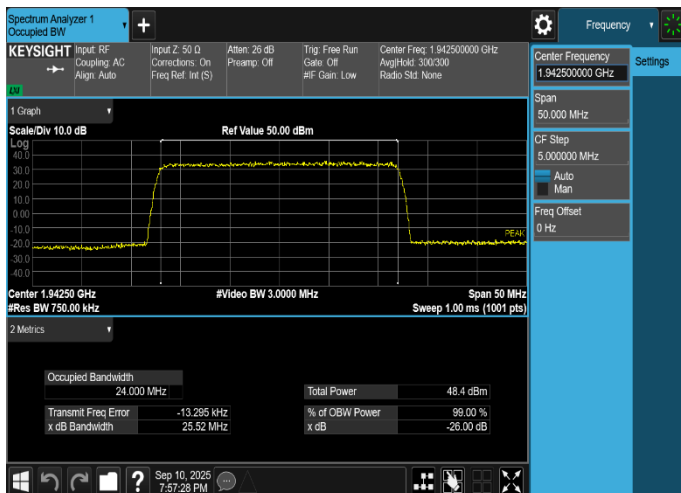
Plot 8-14. Occupied Bandwidth Plot
(NR_n25_1C_15M_256QAM - Mid Channel, Port 17)



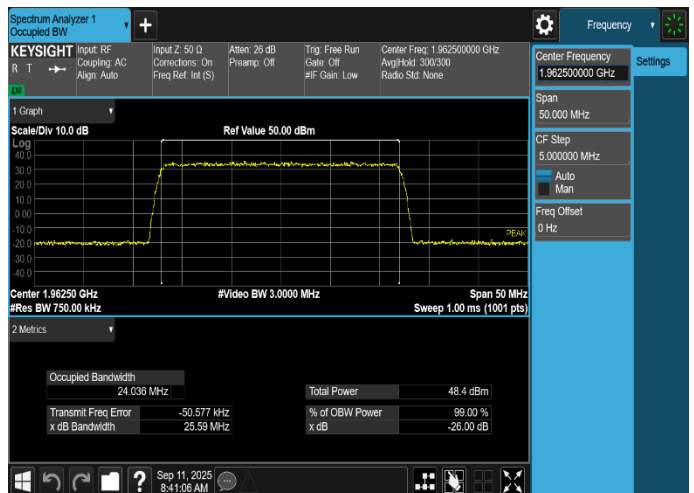
Plot 8-15. Occupied Bandwidth Plot
(NR_n25_1C_20M_QPSK - Mid Channel, Port 19)



Plot 8-16. Occupied Bandwidth Plot
(NR_n25_1C_20M_256QAM - Mid Channel, Port 23)



Plot 8-17. Occupied Bandwidth Plot
(NR_n25_1C_25M_QPSK - Low Channel, Port 18)



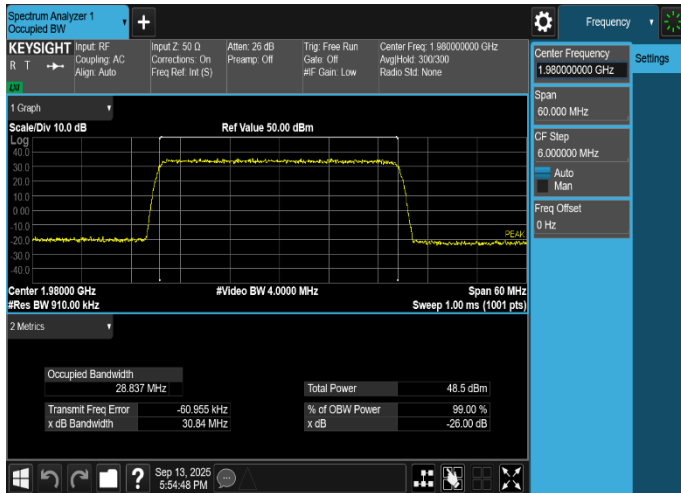
Plot 8-18. Occupied Bandwidth Plot
(NR_n25_1C_25M_16QAM - Mid Channel, Port 18)



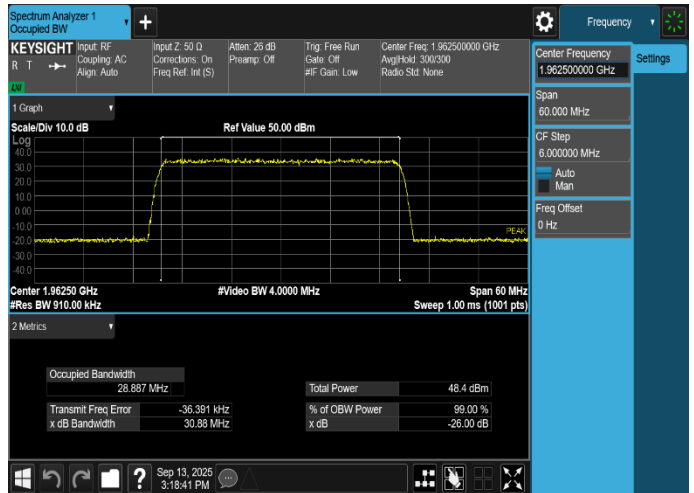
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

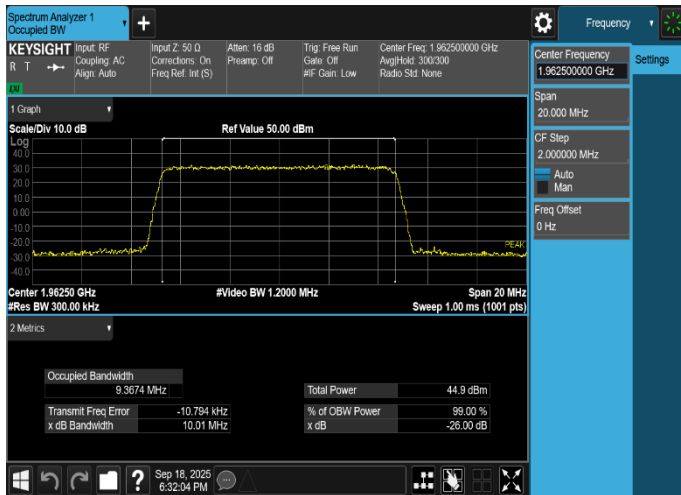
REPORT No.:
CTK-2025-03129-1
Page (74) / (480) pages



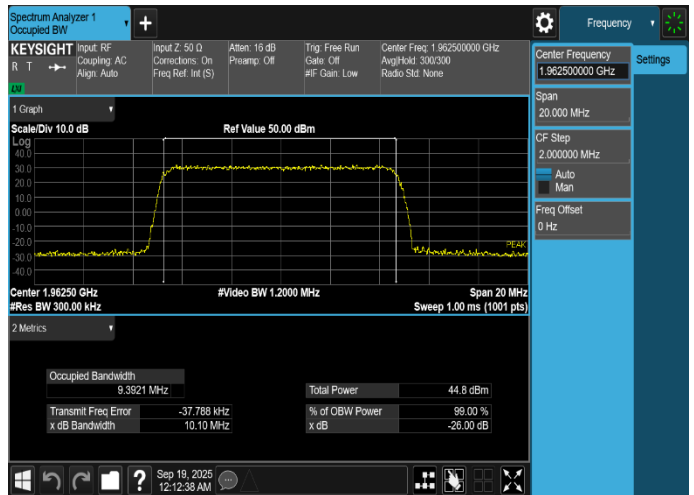
Plot 8-19. Occupied Bandwidth Plot
(NR_n25_1C_30M_QPSK - High Channel, Port 3)



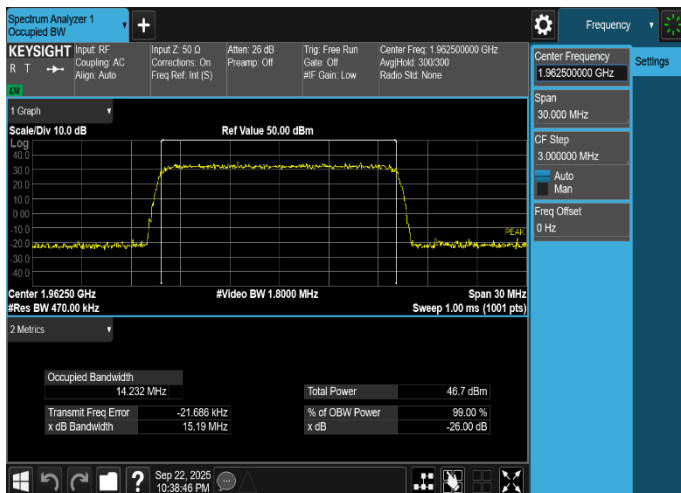
Plot 8-20. Occupied Bandwidth Plot
(NR_n25_1C_30M_256QAM - Mid Channel, Port 20)



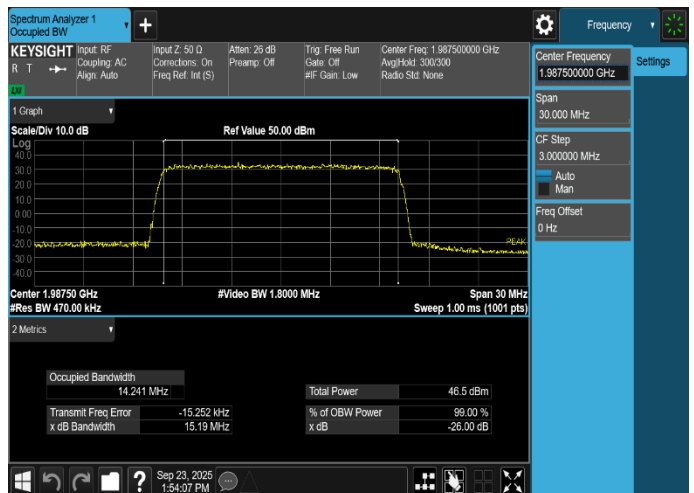
Plot 8-21. Occupied Bandwidth Plot
(DSS_B/n25_1C_10M_QPSK - Mid Channel, Port 29)



Plot 8-22. Occupied Bandwidth Plot
(DSS_B/n25_1C_10M_64QAM - Mid Channel, Port 19)



Plot 8-23. Occupied Bandwidth Plot
(DSS_B/n25_1C_15M_QPSK - Mid Channel, Port 10)



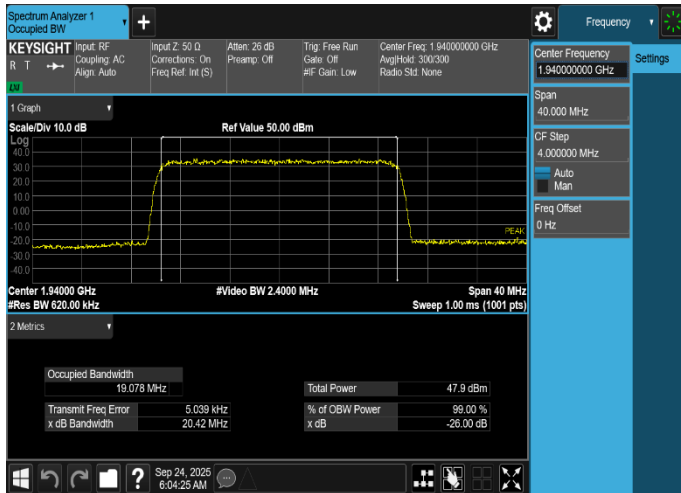
Plot 8-24. Occupied Bandwidth Plot
(DSS_B/n25_1C_15M_16QAM - High Channel, Port 7)



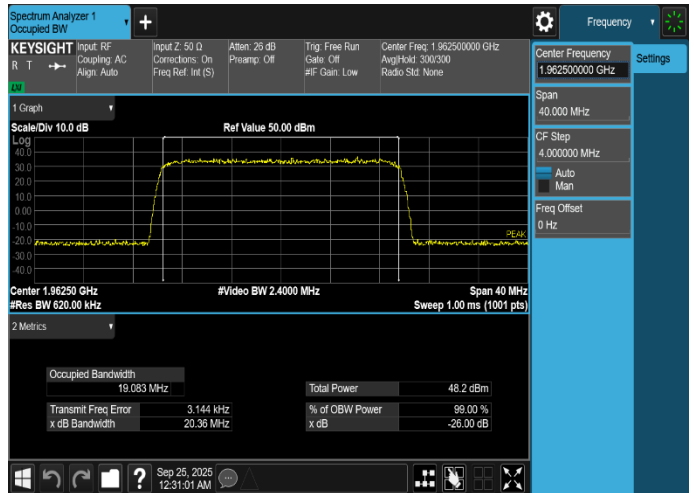
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

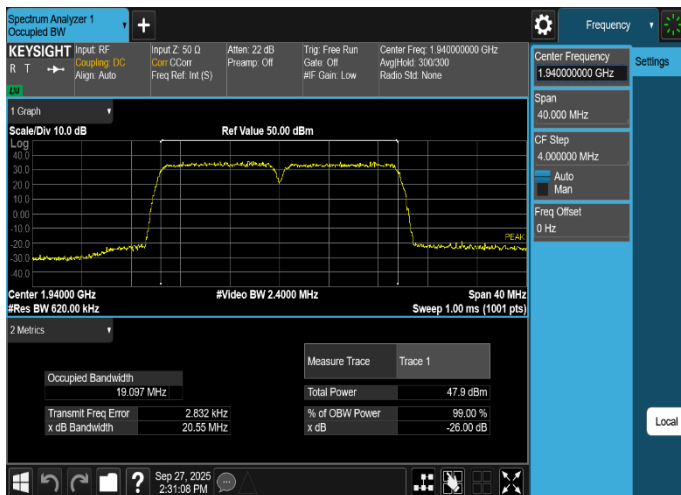
REPORT No.:
CTK-2025-03129-1
Page (75) / (480) pages



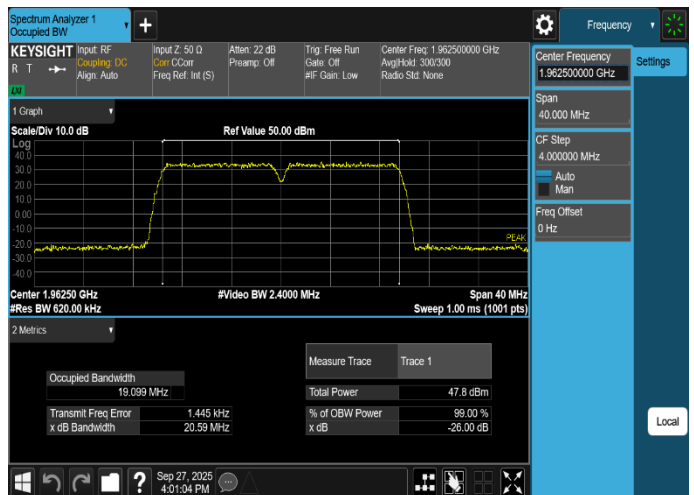
Plot 8-25. Occupied Bandwidth Plot
(DSS_B/n25_1C_20M_QPSK - Low Channel, Port 14)



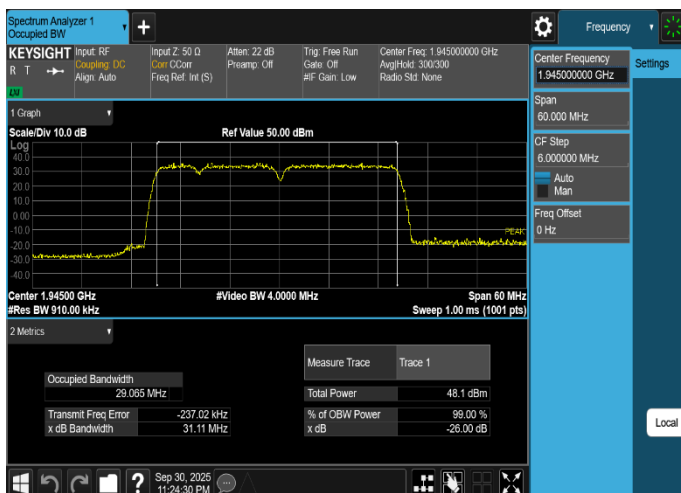
Plot 8-26. Occupied Bandwidth Plot
(DSS_B/n25_1C_20M_256QAM - Mid Channel, Port 31)



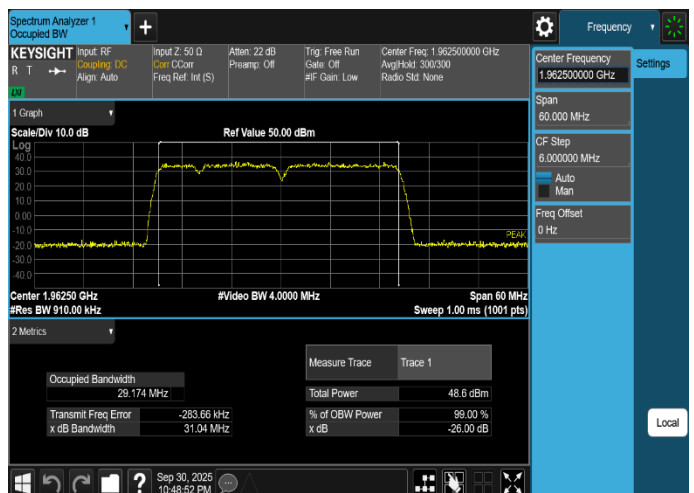
Plot 8-27. Occupied Bandwidth Plot
(LTE_B25_2C_10M+10M_QPSK - Low Channel, Port 16)



Plot 8-28. Occupied Bandwidth Plot
(LTE_B25_2C_10M+10M_16QAM - Mid Channel, Port 8)



Plot 8-29. Occupied Bandwidth Plot
(LTE_B25_3C_5M+10M+15M_QPSK - Low Channel, Port 10)



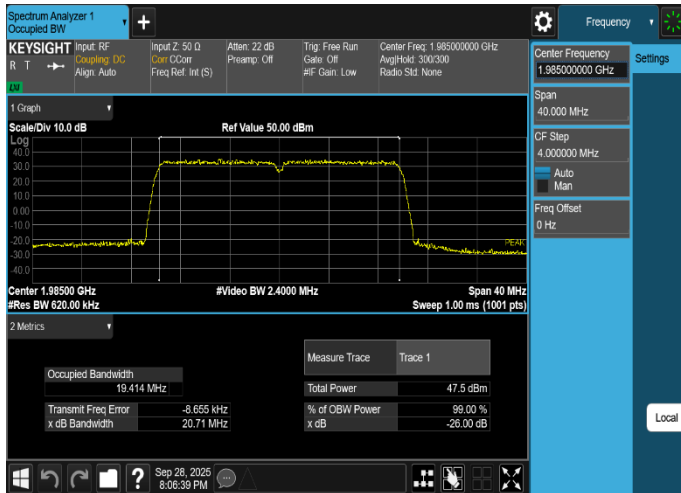
Plot 8-30. Occupied Bandwidth Plot
(LTE_B25_3C_5M+10M+15M_16QAM - Mid Channel, Port 13)



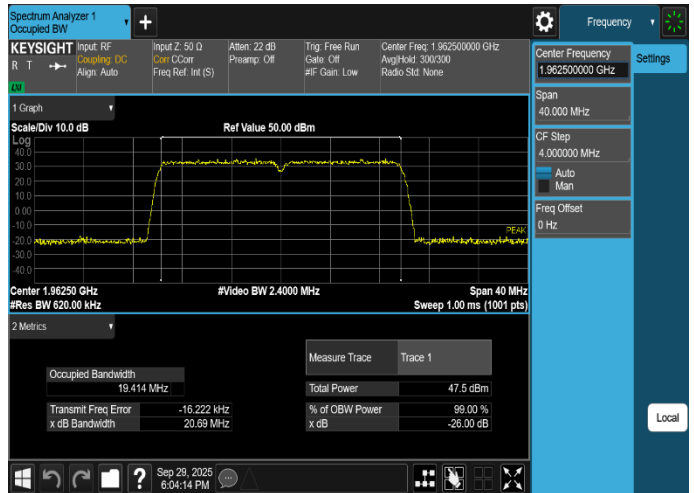
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

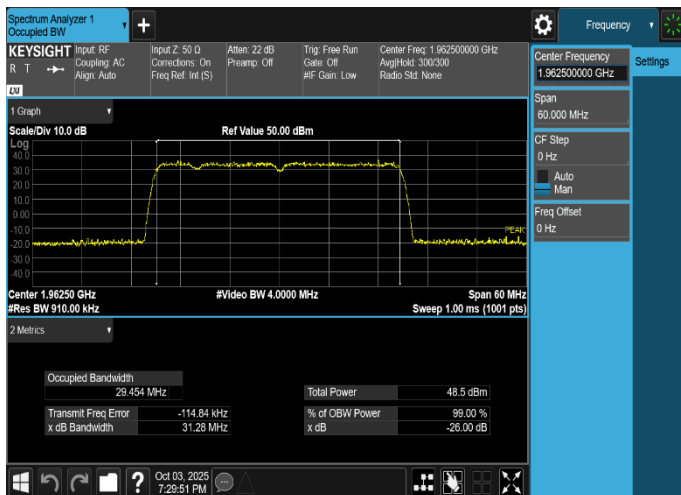
REPORT No.:
CTK-2025-03129-1
Page (76) / (480) pages



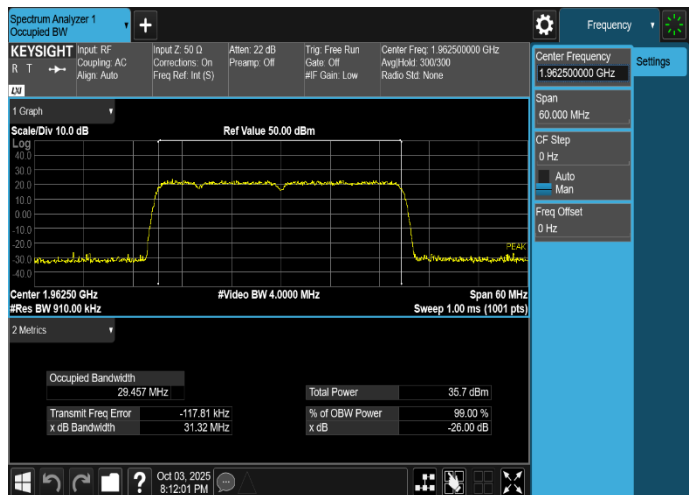
Plot 8-31. Occupied Bandwidth Plot
(NR_n25_2C_10M+10M_QPSK - High Channel, Port 19)



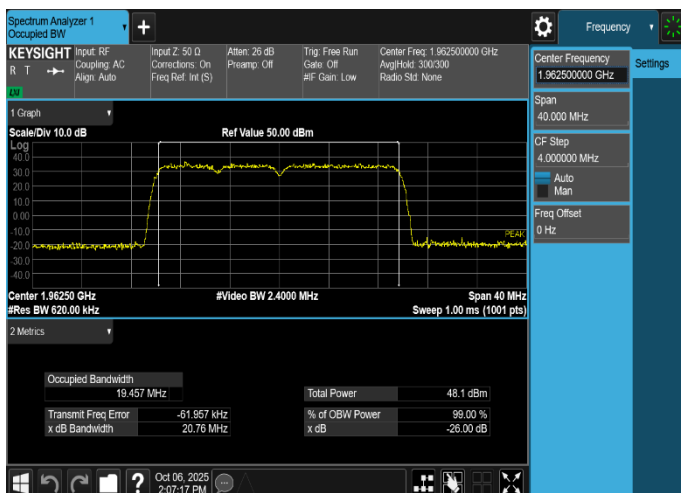
Plot 8-32. Occupied Bandwidth Plot
(NR_n25_2C_10M+10M_16QAM - Mid Channel, Port 0)



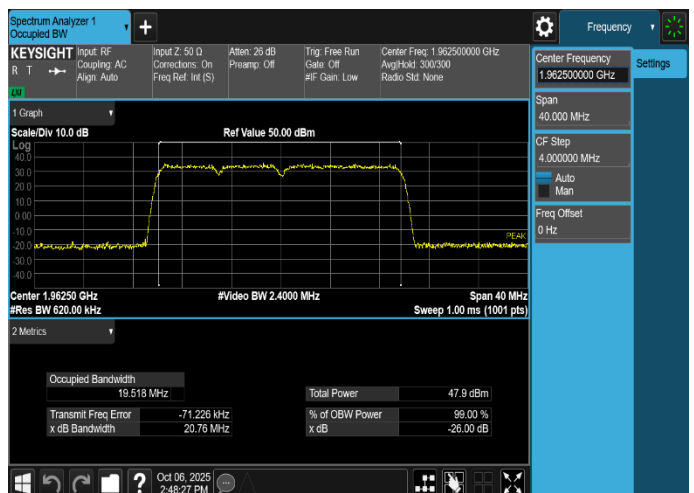
Plot 8-33. Occupied Bandwidth Plot
(NR_n25_3C_5M+10M+15M_QPSK - Mid Channel, Port 10)



Plot 8-34. Occupied Bandwidth Plot
(NR_n25_3C_5M+10M+15M_16QAM - Mid Channel, Port 19)



Plot 8-35. Occupied Bandwidth Plot
(MSR_B/n25_3C_LTE 5M+NR 5M+DSS 10M_QPSK - Mid Channel, Port 9)



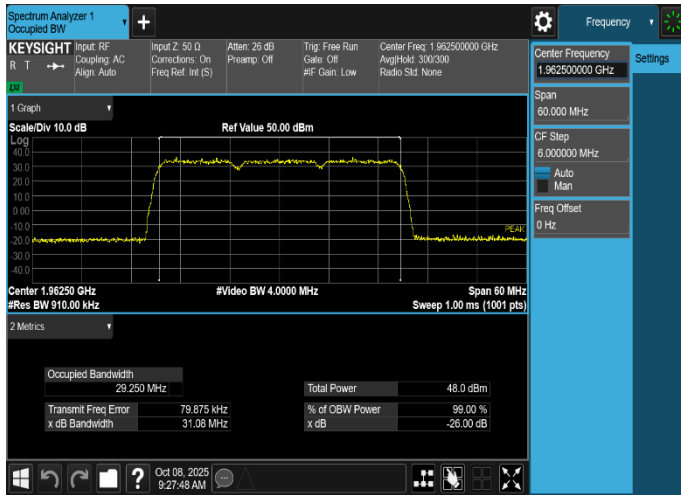
Plot 8-36. Occupied Bandwidth Plot
(MSR_B/n25_3C_LTE 5M+NR 5M+DSS 10M_16QAM - Mid Channel, Port 5)



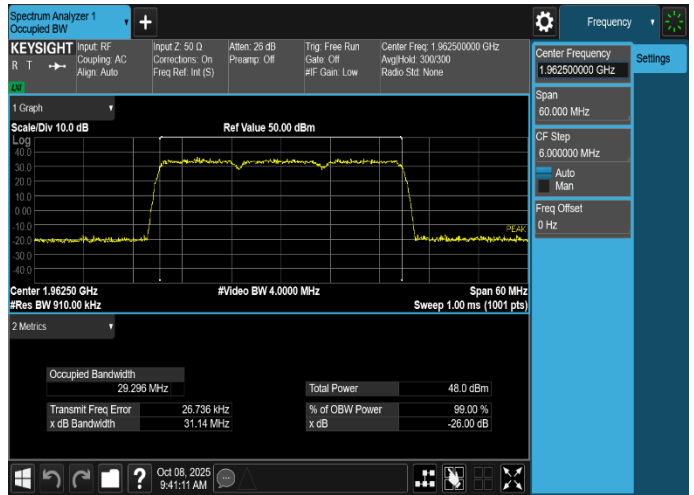
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

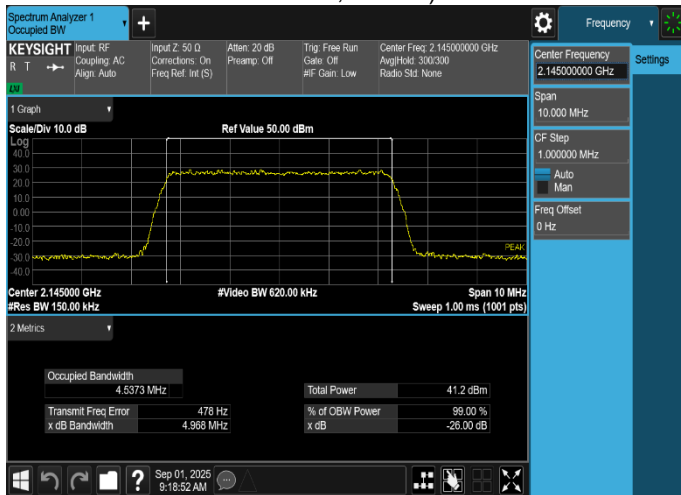
REPORT No.:
CTK-2025-03129-1
Page (77) / (480) pages



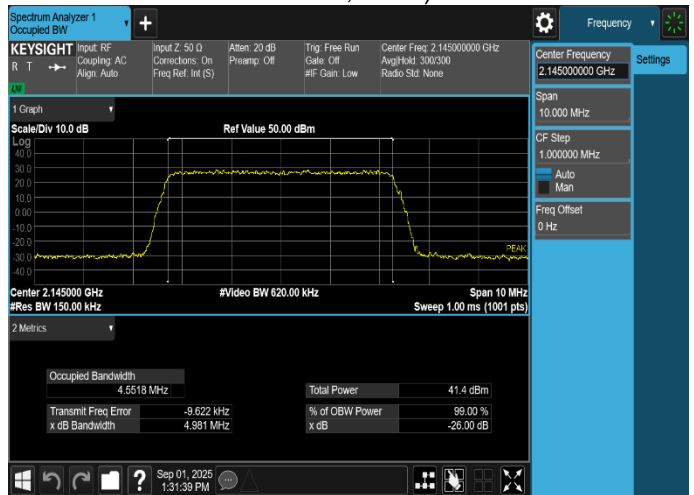
Plot 8-37. Occupied Bandwidth Plot
(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M_QPSK - Mid Channel, Port 30)



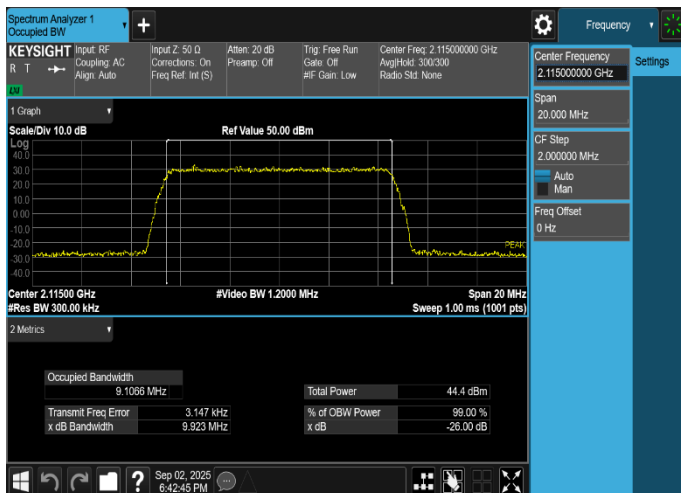
Plot 8-38. Occupied Bandwidth Plot
(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M_16QAM - Mid Channel, Port 5)



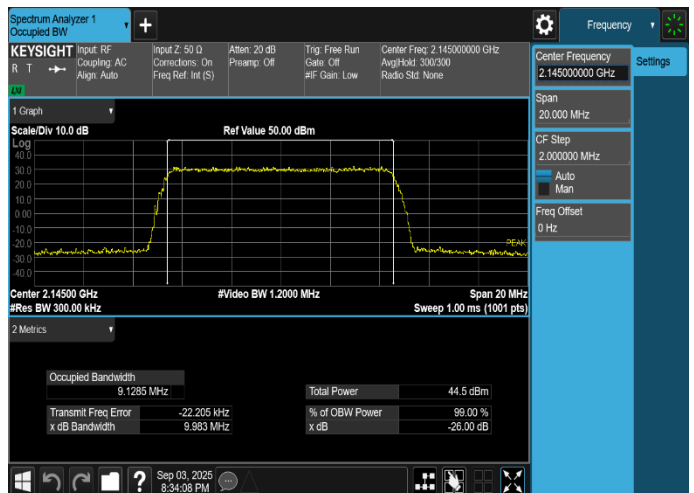
Plot 8-39. Occupied Bandwidth Plot
(LTE_B66_1C_5M_QPSK - Mid Channel, Port 6)



Plot 8-40. Occupied Bandwidth Plot
(LTE_B66_1C_5M_256QAM - Mid Channel, Port 10)



Plot 8-41. Occupied Bandwidth Plot
(LTE_B66_1C_10M_QPSK - Low Channel, Port 20)



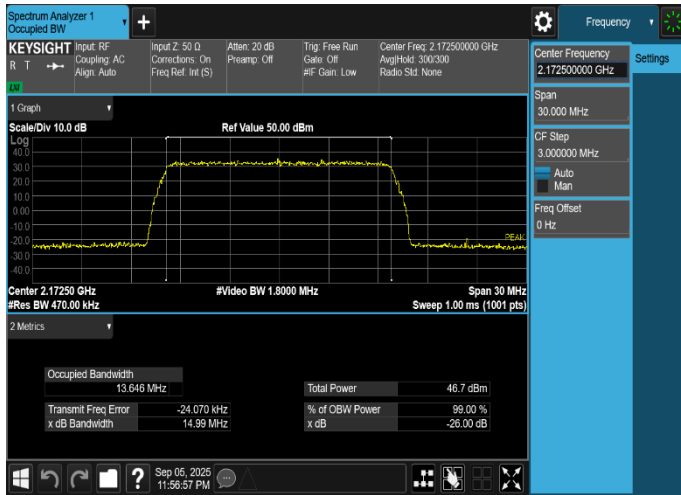
Plot 8-42. Occupied Bandwidth Plot
(LTE_B66_1C_10M_256QAM - Mid Channel, Port 18)



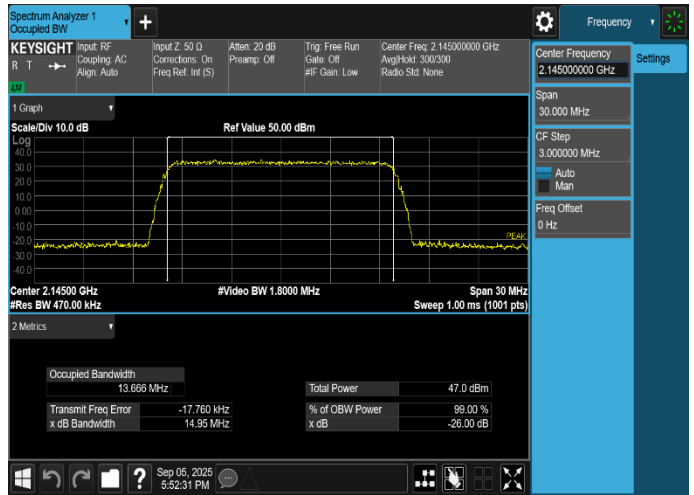
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

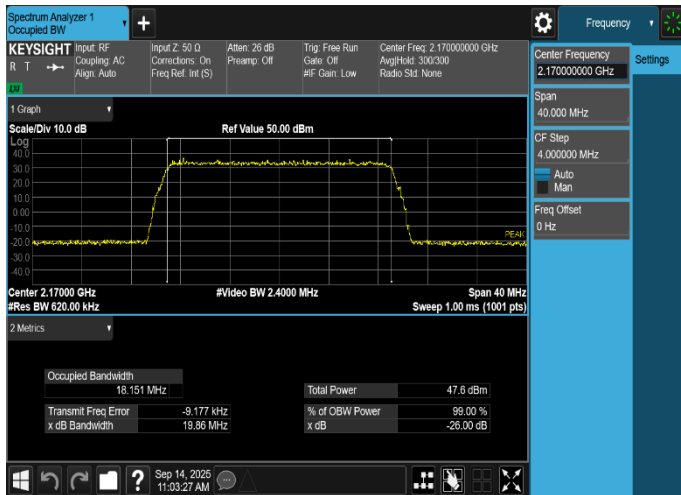
REPORT No.:
CTK-2025-03129-1
Page (78) / (480) pages



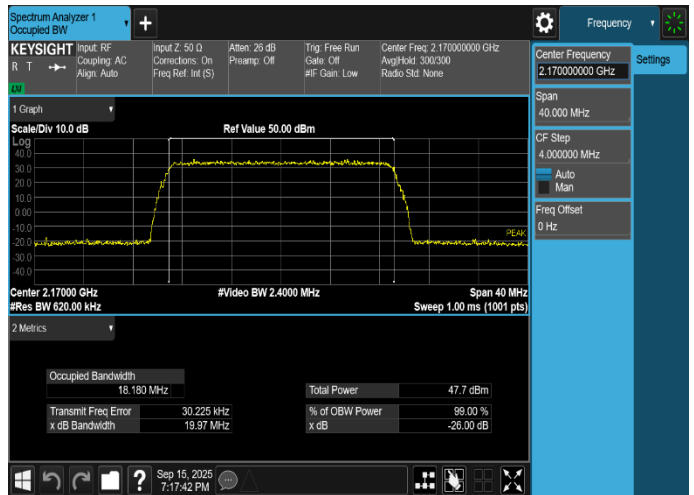
Plot 8-43. Occupied Bandwidth Plot
(LTE_B66_1C_15M_QPSK - High Channel, Port 28)



Plot 8-44. Occupied Bandwidth Plot
(LTE_B66_1C_15M_64QAM - Mid Channel, Port 8)



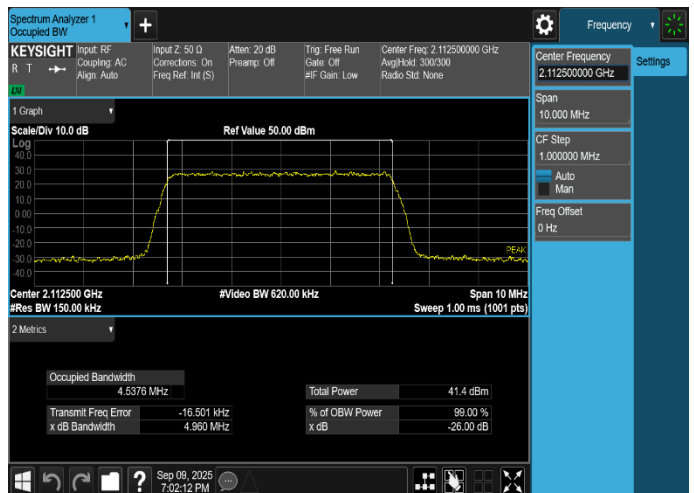
Plot 8-45. Occupied Bandwidth Plot
(LTE_B66_1C_20M_QPSK - High Channel, Port 24)



Plot 8-46. Occupied Bandwidth Plot
(LTE_B66_1C_20M_256QAM - High Channel, Port 16)



Plot 8-47. Occupied Bandwidth Plot
(NR_n66_1C_5M_QPSK - Low Channel, Port 2)



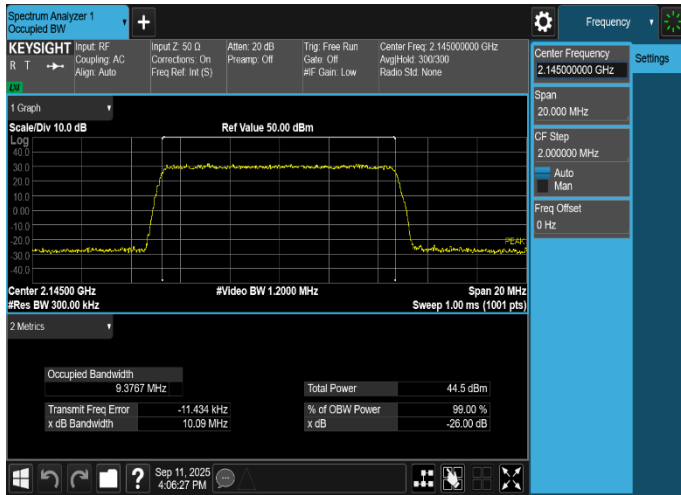
Plot 8-48. Occupied Bandwidth Plot
(NR_n66_1C_5M_64QAM - Low Channel, Port 31)



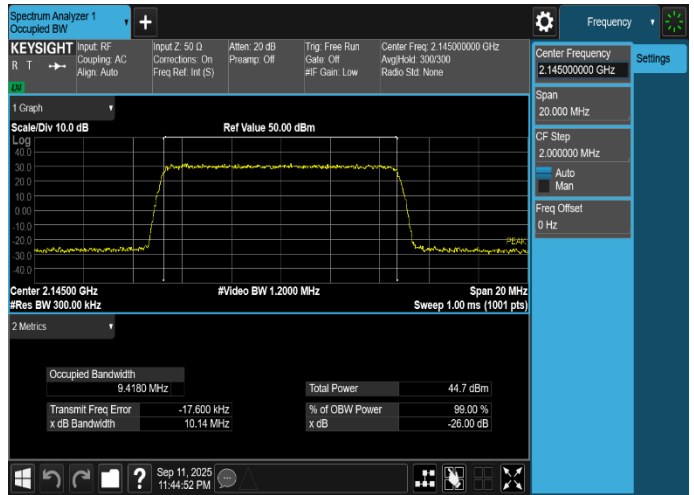
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

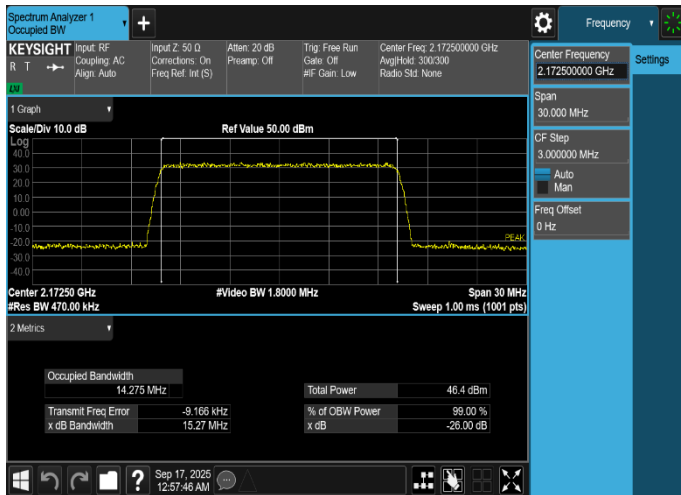
REPORT No.:
CTK-2025-03129-1
Page (79) / (480) pages



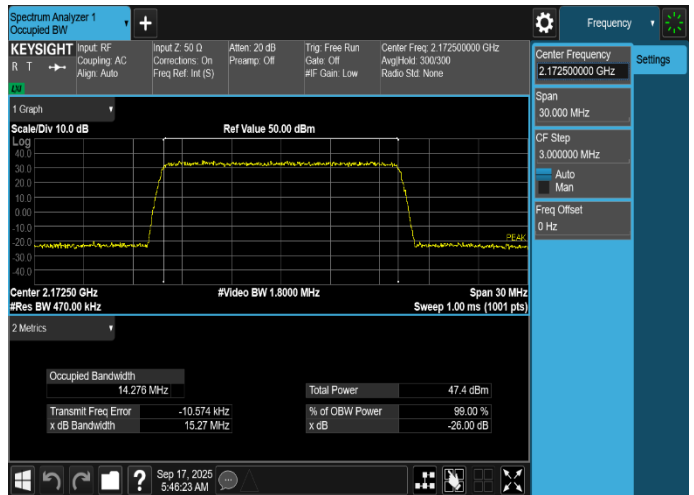
Plot 8-49. Occupied Bandwidth Plot
(NR_n66_1C_10M_QPSK - Mid Channel, Port 3)



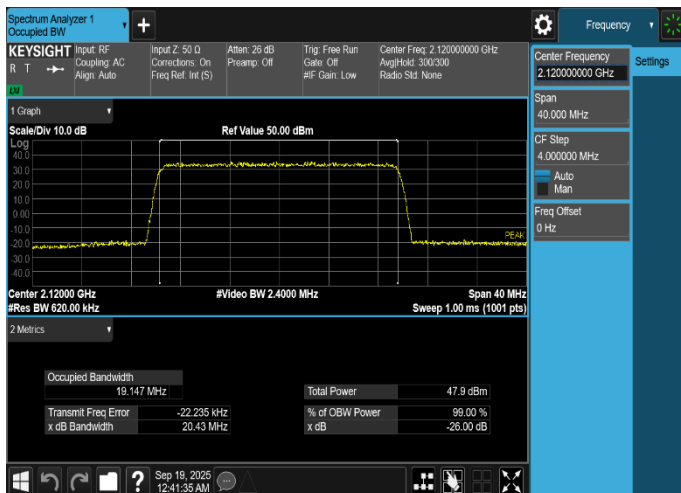
Plot 8-50. Occupied Bandwidth Plot
(NR_n66_1C_10M_256QAM - Mid Channel, Port 9)



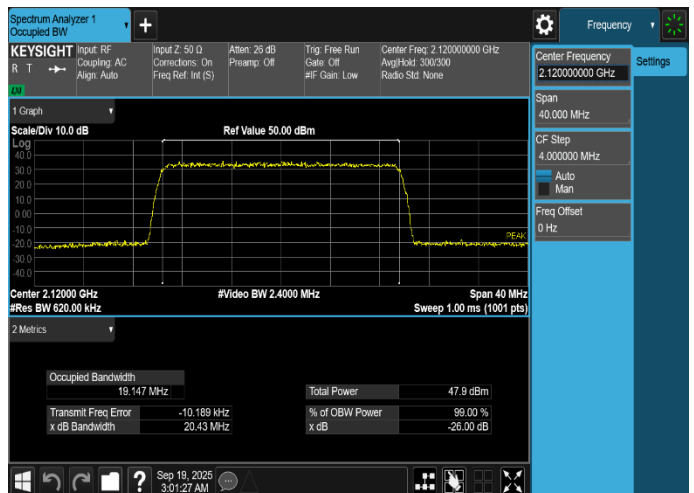
Plot 8-51. Occupied Bandwidth Plot
(NR_n66_1C_15M_QPSK - High Channel, Port 2)



Plot 8-52. Occupied Bandwidth Plot
(NR_n66_1C_15M_64QAM - High Channel, Port 7)



Plot 8-53. Occupied Bandwidth Plot
(NR_n66_1C_20M_QPSK - Low Channel, Port 14)



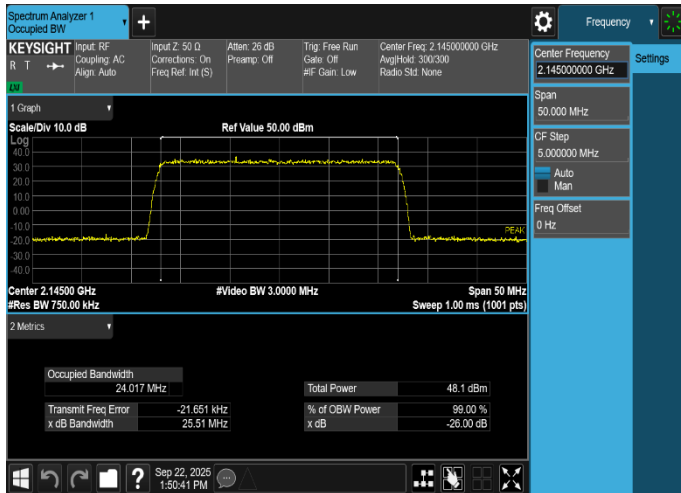
Plot 8-54. Occupied Bandwidth Plot
(NR_n66_1C_20M_64QAM - Low Channel, Port 1)



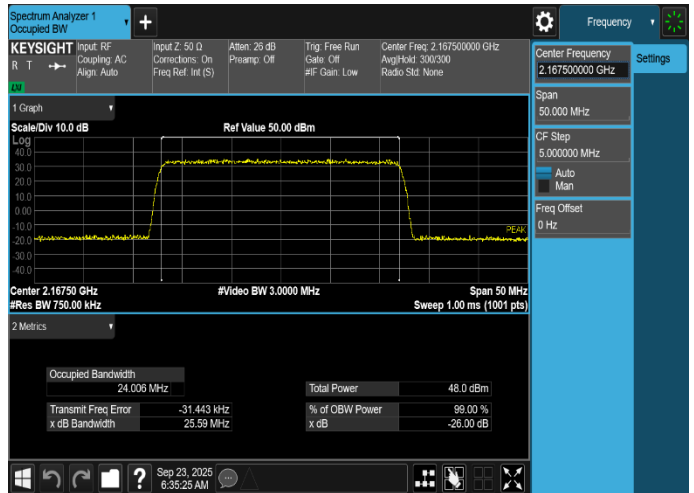
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

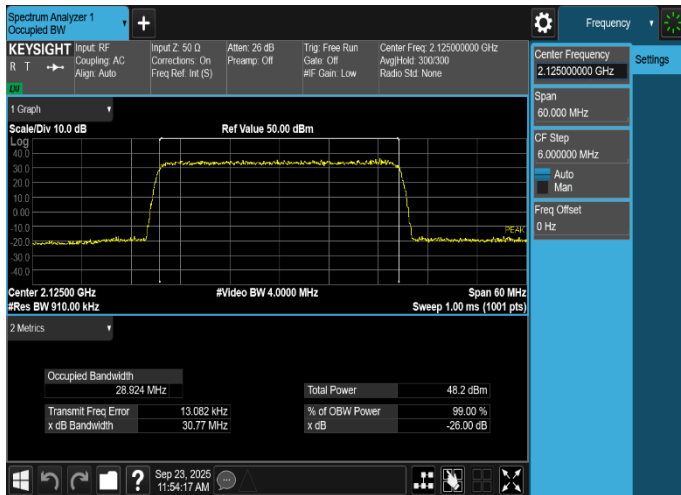
REPORT No.:
CTK-2025-03129-1
Page (80) / (480) pages



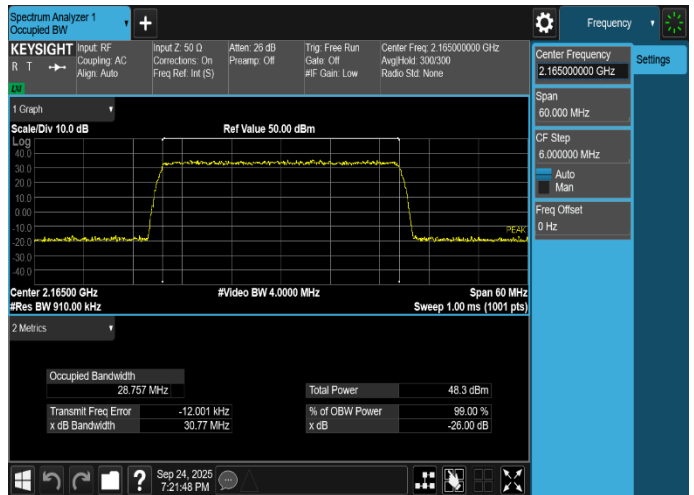
Plot 8-55. Occupied Bandwidth Plot
(NR_n66_1C_25M_QPSK - Mid Channel, Port 5)



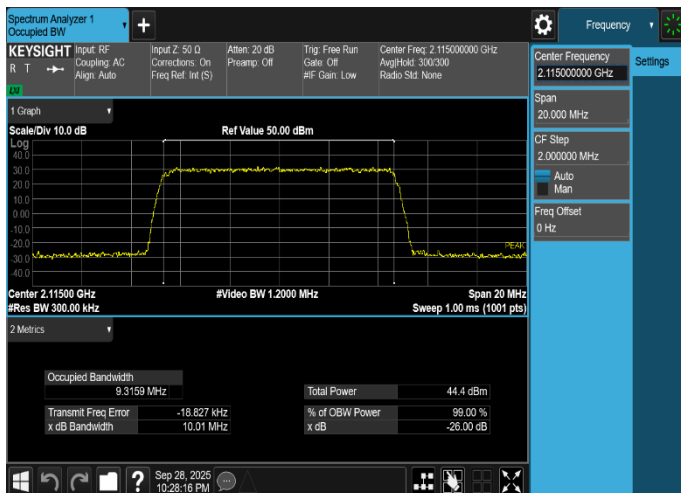
Plot 8-56. Occupied Bandwidth Plot
(NR_n66_1C_25M_64QAM - High Channel, Port 2)



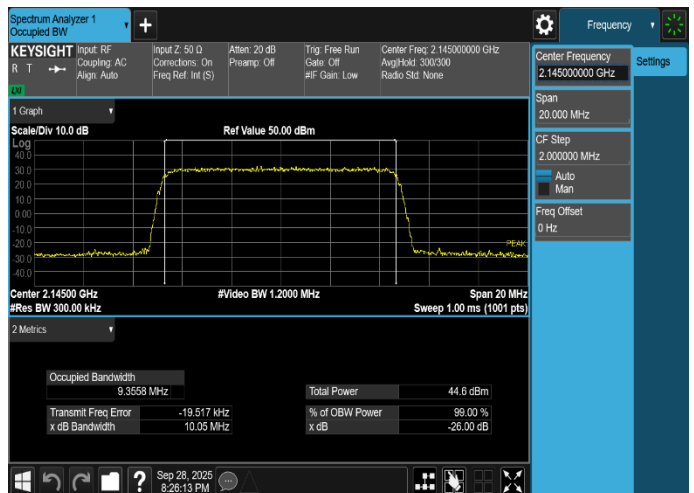
Plot 8-57. Occupied Bandwidth Plot
(NR_n66_1C_30M_QPSK - Low Channel, Port 29)



Plot 8-58. Occupied Bandwidth Plot
(NR_n66_1C_30M_64QAM - High Channel, Port 0)



Plot 8-59. Occupied Bandwidth Plot
(DSS_B/n66_1C_10M_QPSK - Low Channel, Port 26)



Plot 8-60. Occupied Bandwidth Plot
(DSS_B/n66_1C_10M_64QAM - Mid Channel, Port 27)