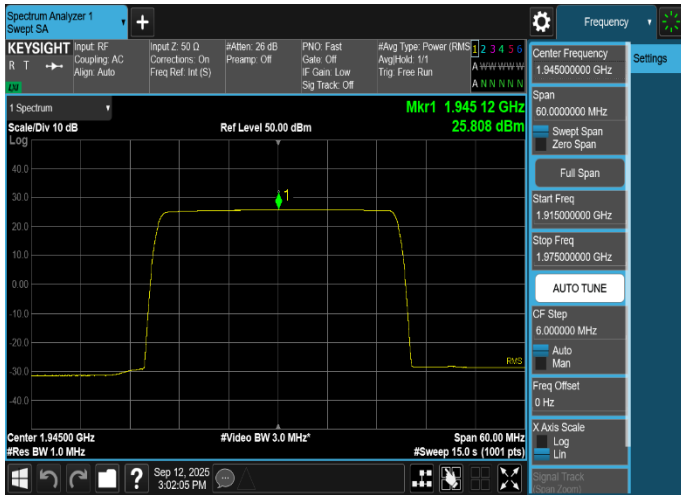




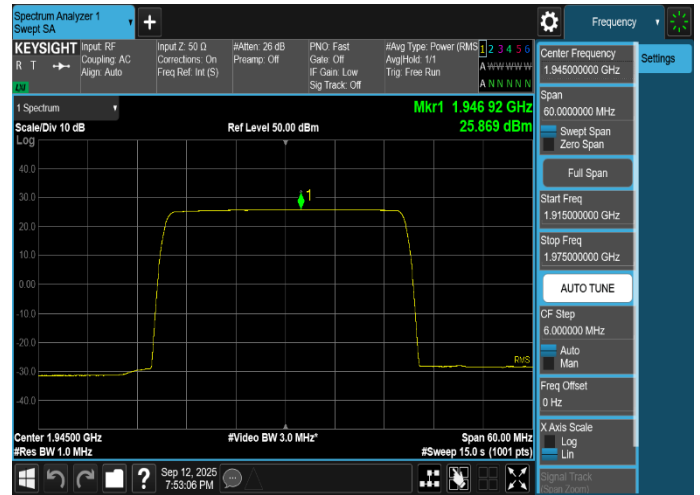
CTK Co., Ltd.

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

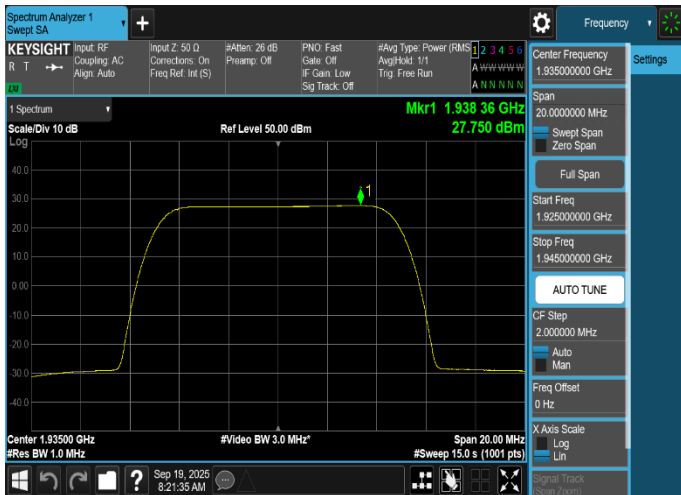
REPORT No.:
CTK-2025-03129-1
Page (166) / (480) pages



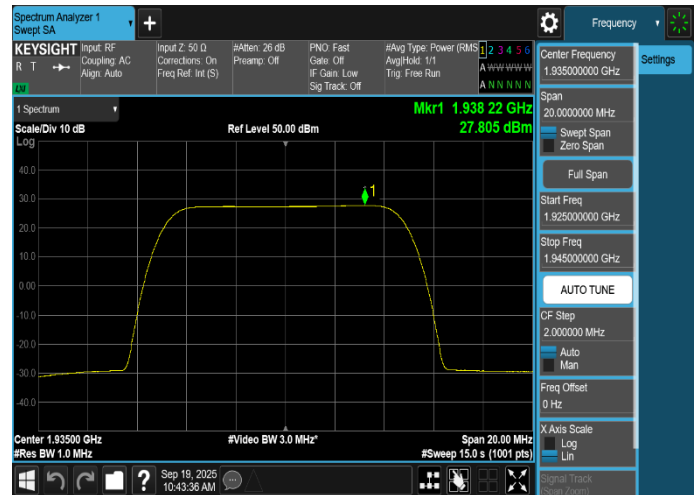
Plot 8-95. Equivalent Isotropically Radiated Power Plot
(NR_n25_1C_30M_QPSK - Low Channel, Port 26)



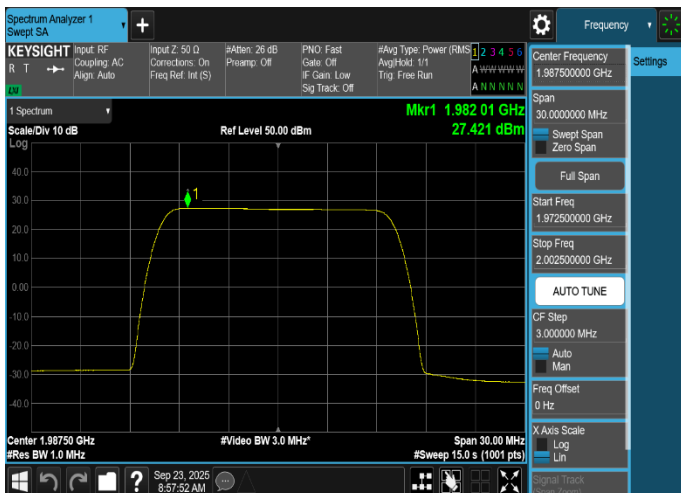
Plot 8-96. Equivalent Isotropically Radiated Power Plot
(NR_n25_1C_30M_64QAM - Low Channel, Port 26)



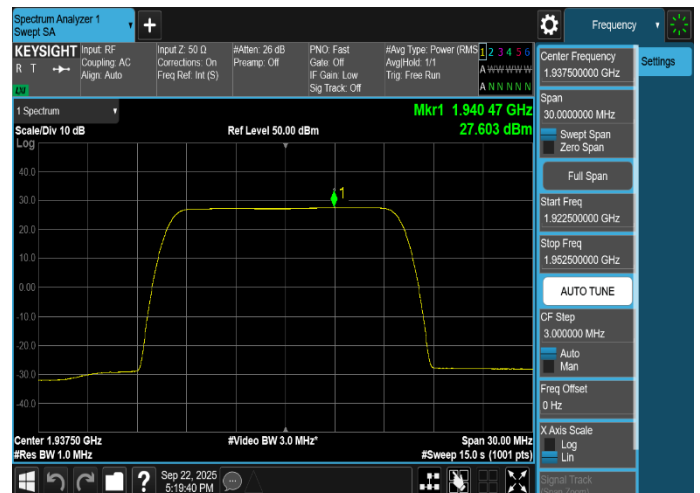
Plot 8-97. Equivalent Isotropically Radiated Power Plot
(DSS_B/n25_1C_10M_QPSK - Low Channel, Port 27)



Plot 8-98. Equivalent Isotropically Radiated Power Plot
(DSS_B/n25_1C_10M_16QAM - Low Channel, Port 27)



Plot 8-99. Equivalent Isotropically Radiated Power Plot
(DSS_B/n25_1C_15M_QPSK - High Channel, Port 9)



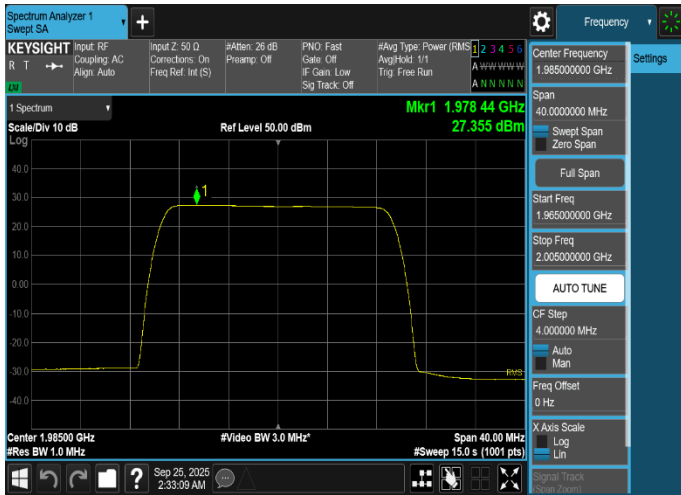
Plot 8-100. Equivalent Isotropically Radiated Power Plot
(DSS_B/n25_1C_15M_64QAM - Low Channel, Port 27)



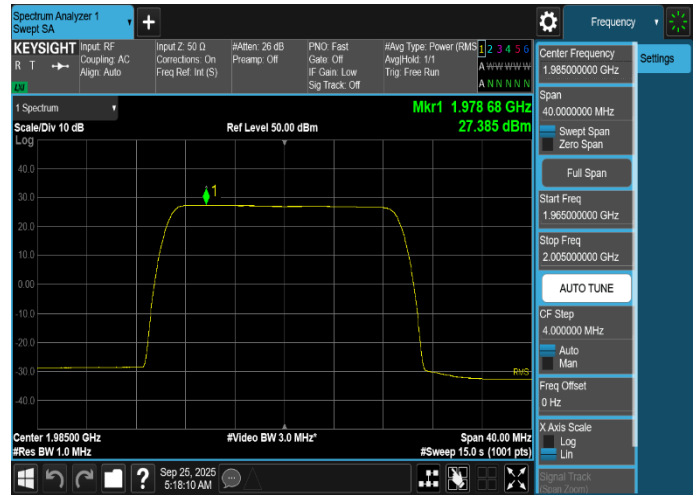
CTK Co., Ltd.

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

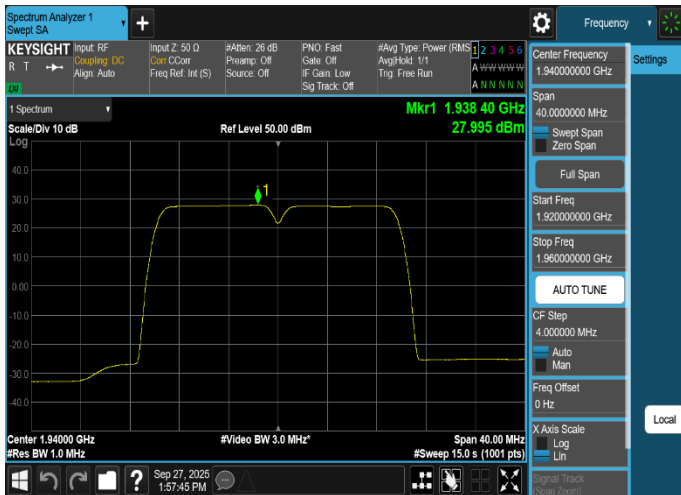
REPORT No.:
CTK-2025-03129-1
Page (167) / (480) pages



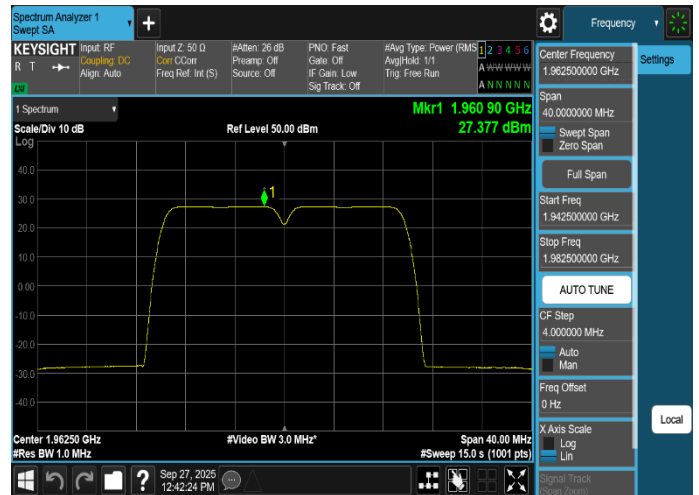
Plot 8-101. Equivalent Isotropically Radiated Power Plot
(DSS_B/n25_1C_20M_QPSK - High Channel, Port 9)



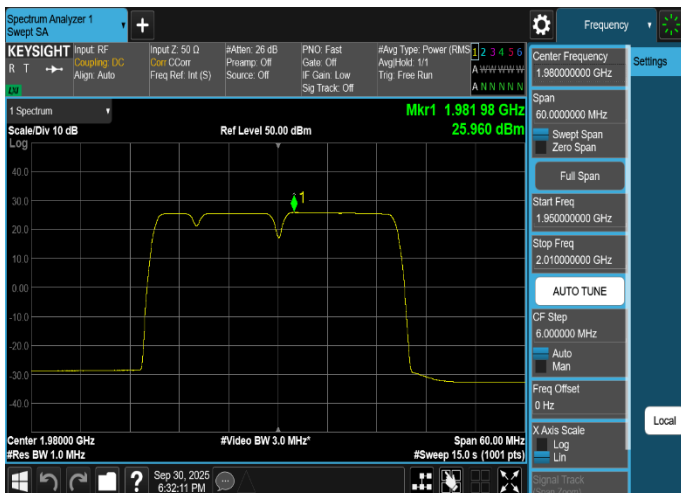
Plot 8-102. Equivalent Isotropically Radiated Power Plot
(DSS_B/n25_1C_20M_16QAM - High Channel, Port 9)



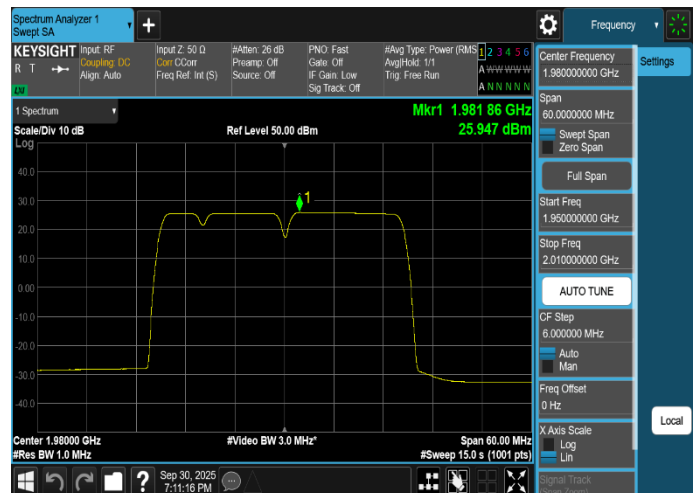
Plot 8-103. Equivalent Isotropically Radiated Power Plot
(LTE_B25_2C_10M+10M_QPSK - Low Channel, Port 13)



Plot 8-104. Equivalent Isotropically Radiated Power Plot
(LTE_B25_2C_10M+10M_16QAM - Mid Channel, Port 13)



Plot 8-105. Equivalent Isotropically Radiated Power Plot
(LTE_B25_3C_5M+10M+15M_QPSK - High Channel, Port 13)



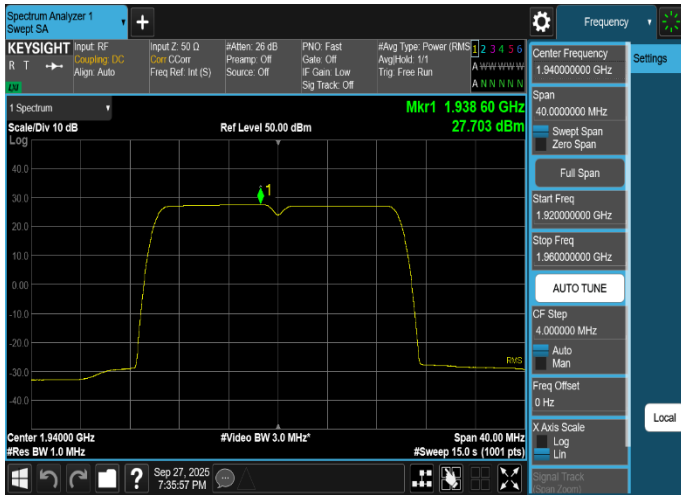
Plot 8-106. Equivalent Isotropically Radiated Power Plot
(LTE_B25_3C_5M+10M+15M_16QAM - High Channel, Port 13)



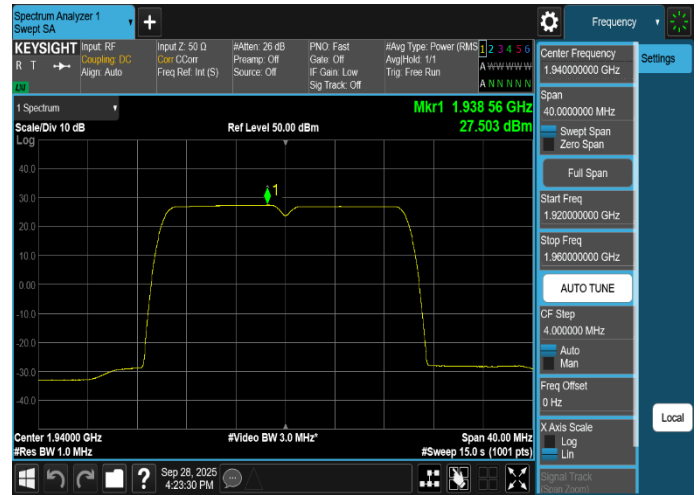
CTK Co., Ltd.

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

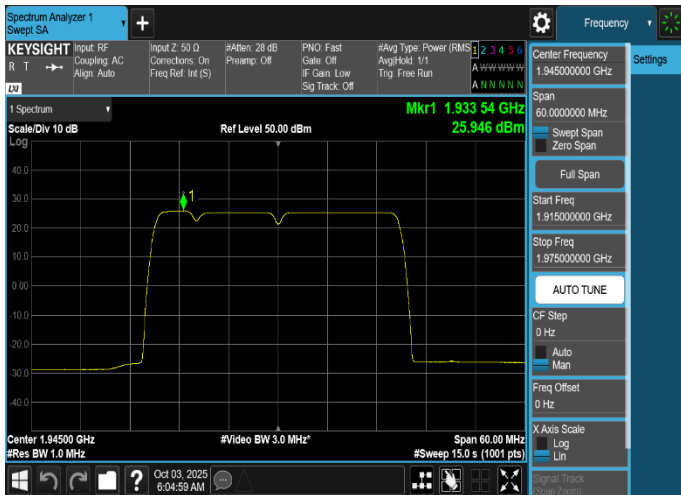
REPORT No.:
CTK-2025-03129-1
Page (168) / (480) pages



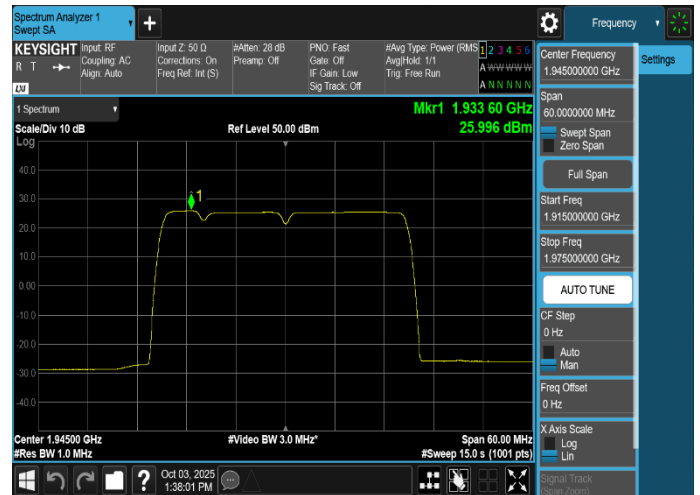
Plot 8-107. Equivalent Isotropically Radiated Power Plot
(NR_n25_2C_10M+10M_QPSK - Low Channel, Port 13)



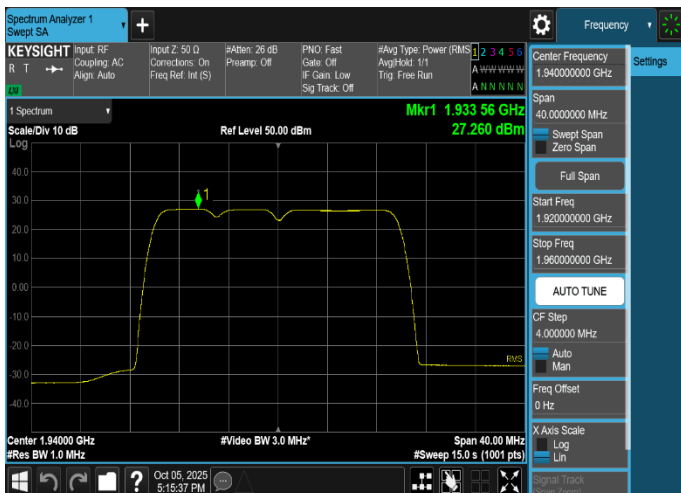
Plot 8-108. Equivalent Isotropically Radiated Power Plot
(NR_n25_2C_10M+10M_16QAM - Low Channel, Port 13)



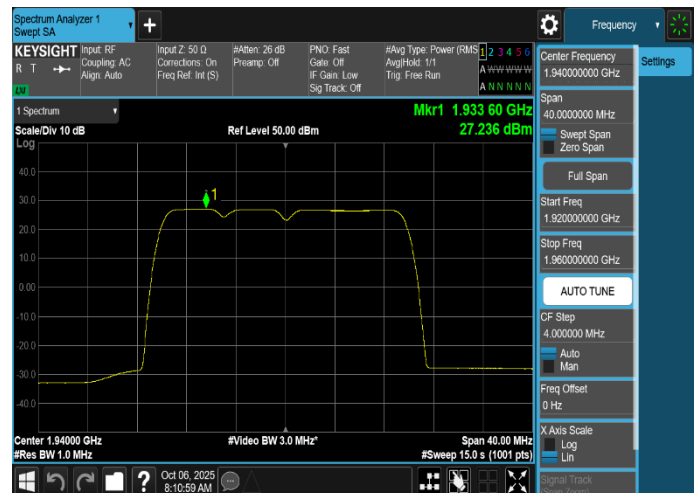
Plot 8-109. Equivalent Isotropically Radiated Power Plot
(NR_n25_3C_5M+10M+15M_QPSK - Low Channel, Port 13)



Plot 8-110. Equivalent Isotropically Radiated Power Plot
(NR_n25_3C_5M+10M+15M_16QAM - Low Channel, Port 13)



Plot 8-111. Equivalent Isotropically Radiated Power Plot
(MSR_B/n25_3C_LTE 5M+NR 5M+DSS 10M_QPSK - Low
Channel, Port 9)



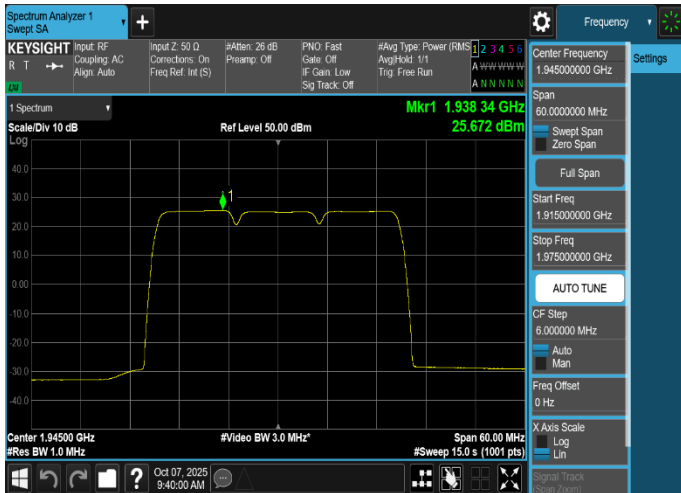
Plot 8-112. Equivalent Isotropically Radiated Power Plot
(MSR_B/n25_3C_LTE 5M+NR 5M+DSS 10M_16QAM - Low
Channel, Port 9)



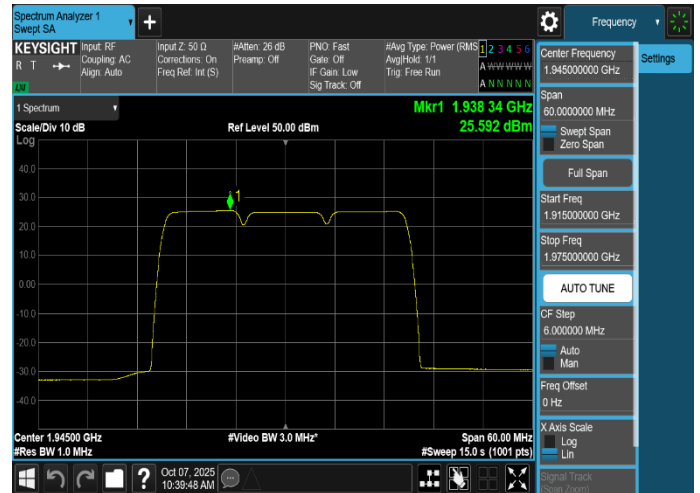
CTK Co., Ltd.

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

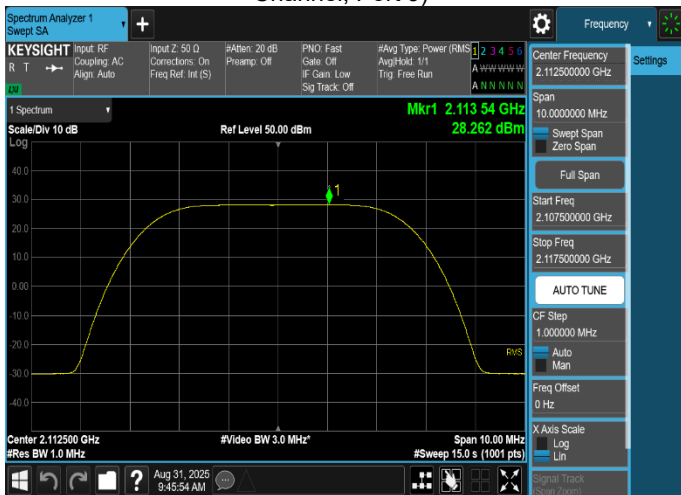
REPORT No.:
CTK-2025-03129-1
Page (169) / (480) pages



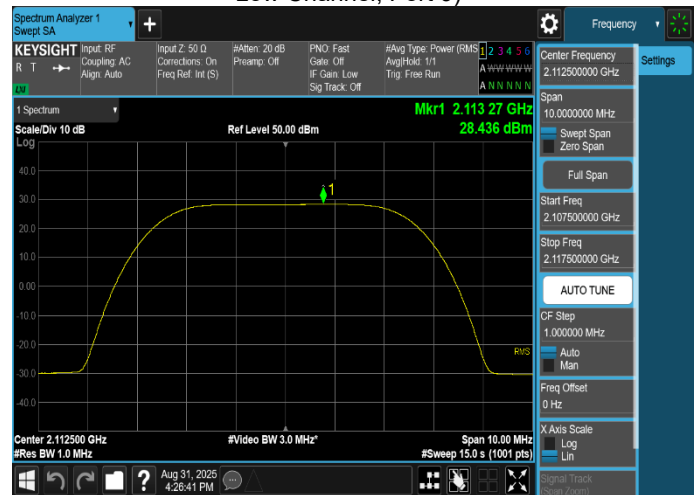
Plot 8-113. Equivalent Isotropically Radiated Power Plot
(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M_QPSK - Low
Channel, Port 9)



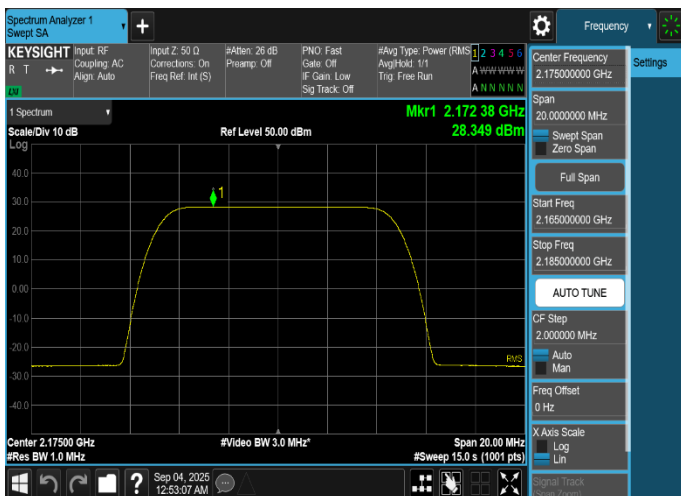
Plot 8-114. Equivalent Isotropically Radiated Power Plot
(MSR_B/n25_3C_LTE 10M+NR 10M+DSS 10M_16QAM -
Low Channel, Port 9)



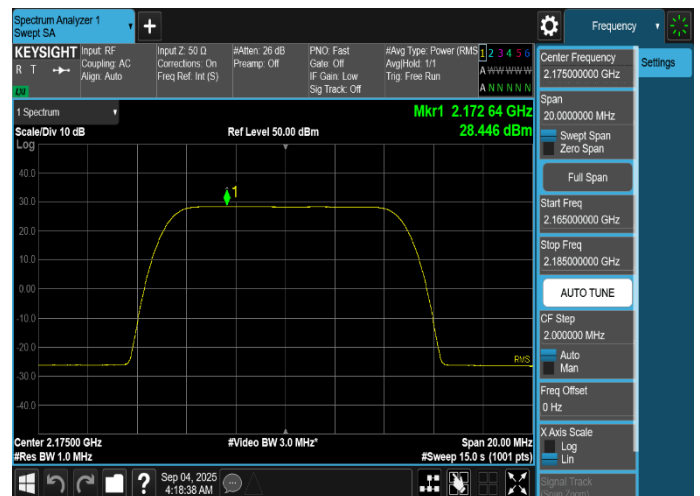
Plot 8-115. Equivalent Isotropically Radiated Power Plot
(LTE_B66_1C_5M_QPSK - Low Channel, Port 5)



Plot 8-116. Equivalent Isotropically Radiated Power Plot
(LTE_B66_1C_5M_256QAM - Low Channel, Port 5)



Plot 8-117. Equivalent Isotropically Radiated Power Plot
(LTE_B66_1C_10M_QPSK - High Channel, Port 5)



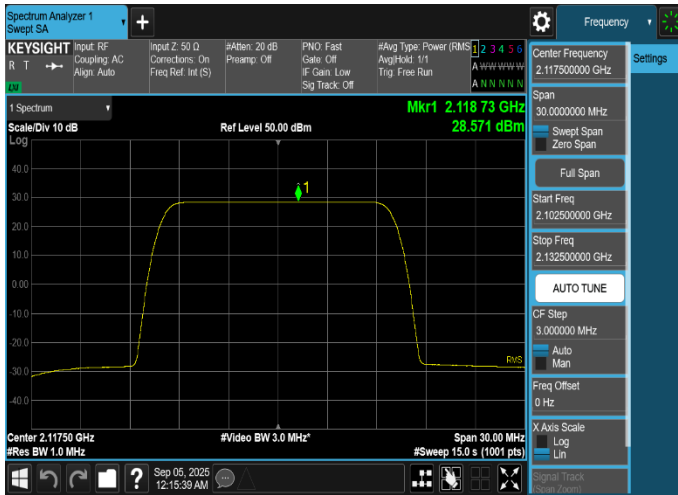
Plot 8-118. Equivalent Isotropically Radiated Power Plot
(LTE_B66_1C_10M_256QAM - High Channel, Port 5)



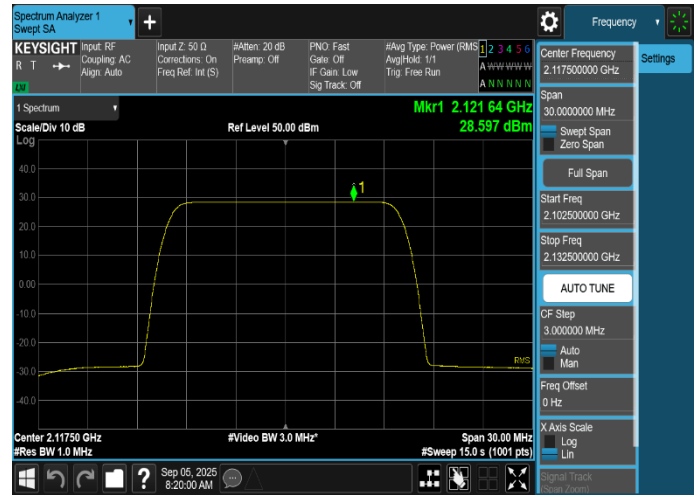
CTK Co., Ltd.

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

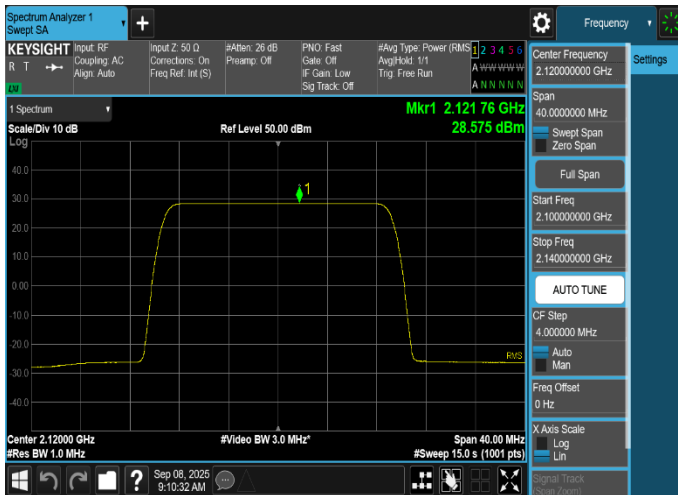
REPORT No.:
CTK-2025-03129-1
Page (170) / (480) pages



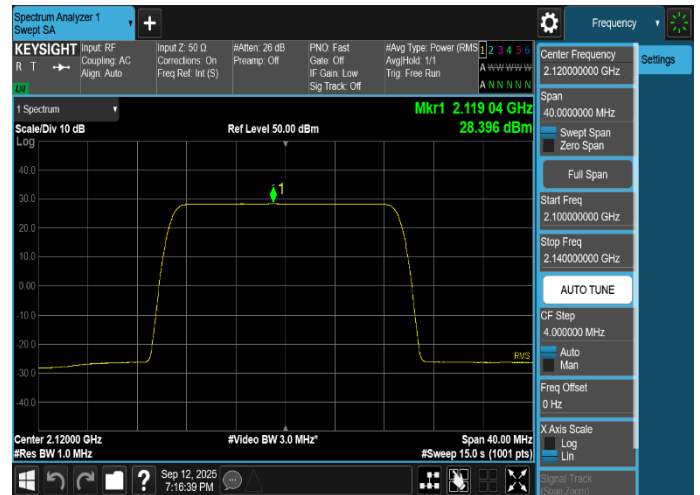
Plot 8-119. Equivalent Isotropically Radiated Power Plot
(LTE_B66_1C_15M_QPSK - Low Channel, Port 5)



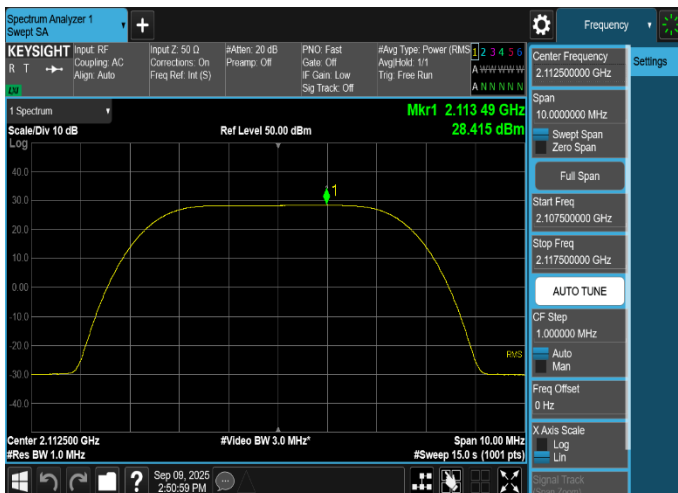
Plot 8-120. Equivalent Isotropically Radiated Power Plot
(LTE_B66_1C_15M_256QAM - Low Channel, Port 5)



Plot 8-121. Equivalent Isotropically Radiated Power Plot
(LTE_B66_1C_20M_QPSK - Low Channel, Port 5)



Plot 8-122. Equivalent Isotropically Radiated Power Plot
(LTE_B66_1C_20M_16QAM - Low Channel, Port 5)



Plot 8-123. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_5M_QPSK - Low Channel, Port 5)



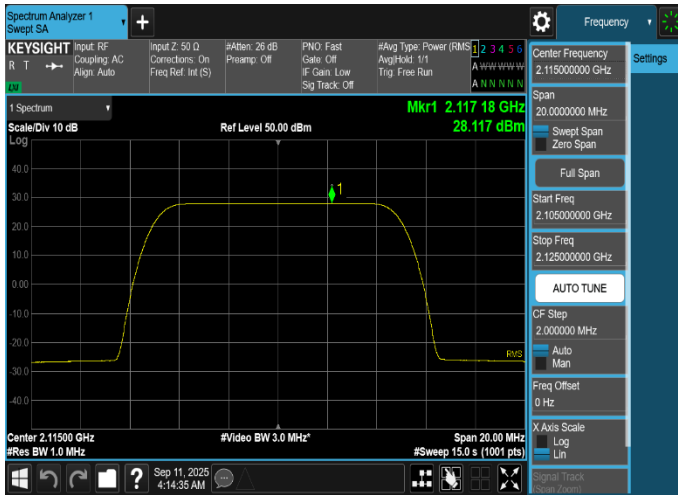
Plot 8-124. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_5M_256QAM - Low Channel, Port 5)



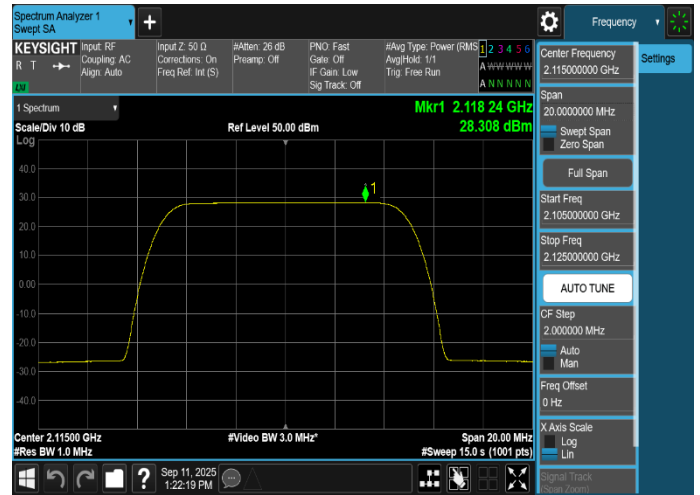
CTK Co., Ltd.

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

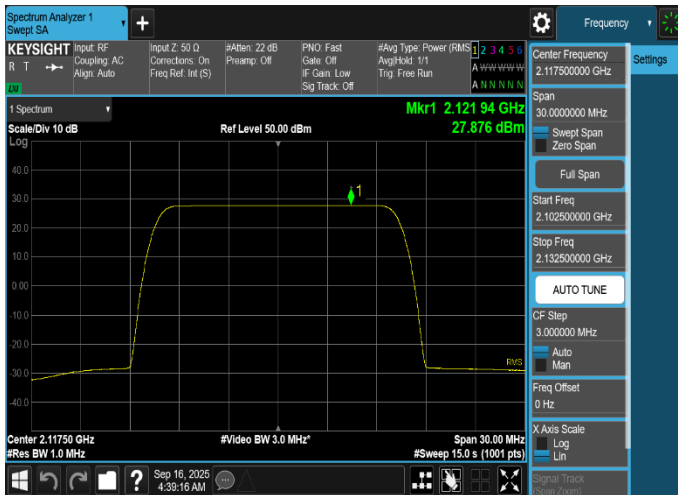
REPORT No.:
CTK-2025-03129-1
Page (171) / (480) pages



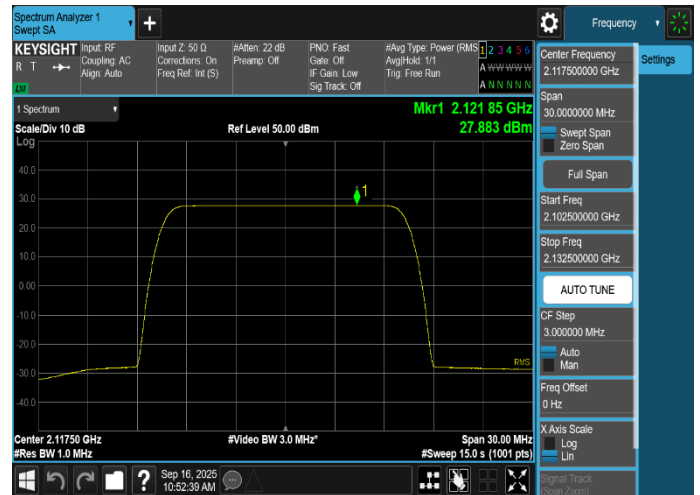
Plot 8-125. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_10M_QPSK - Low Channel, Port 5)



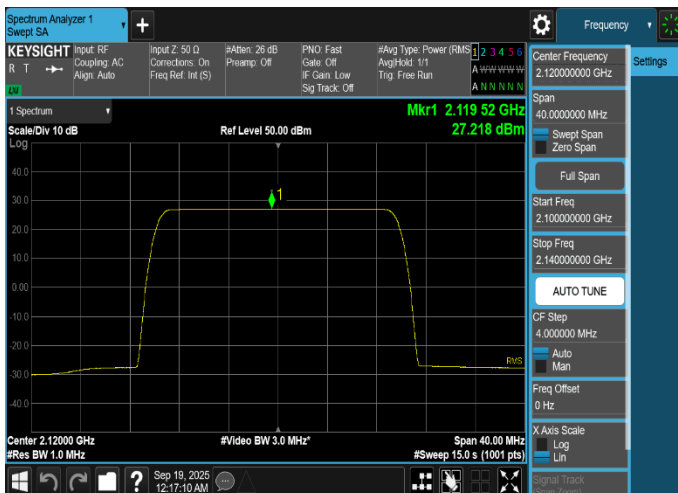
Plot 8-126. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_10M_256QAM - Low Channel, Port 5)



Plot 8-127. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_15M_QPSK - Low Channel, Port 7)



Plot 8-128. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_15M_64QAM - Low Channel, Port 7)



Plot 8-129. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_20M_QPSK - Low Channel, Port 13)



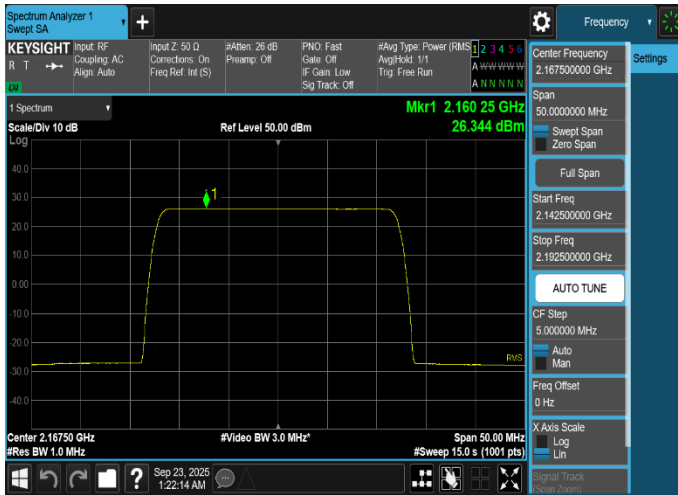
Plot 8-130. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_20M_64QAM - Low Channel, Port 13)



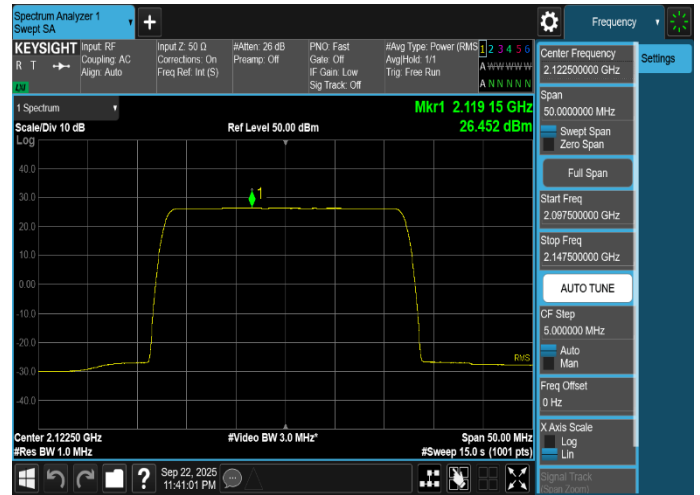
CTK Co., Ltd.

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

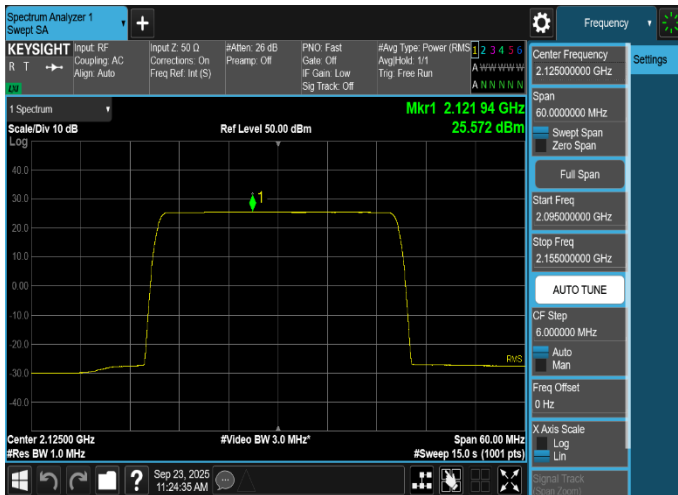
REPORT No.:
CTK-2025-03129-1
Page (172) / (480) pages



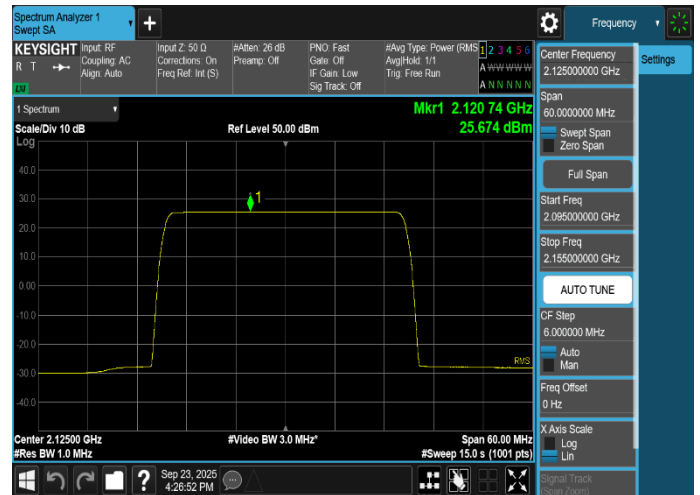
Plot 8-131. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_25M_QPSK - High Channel, Port 13)



Plot 8-132. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_25M_256QAM - Low Channel, Port 13)



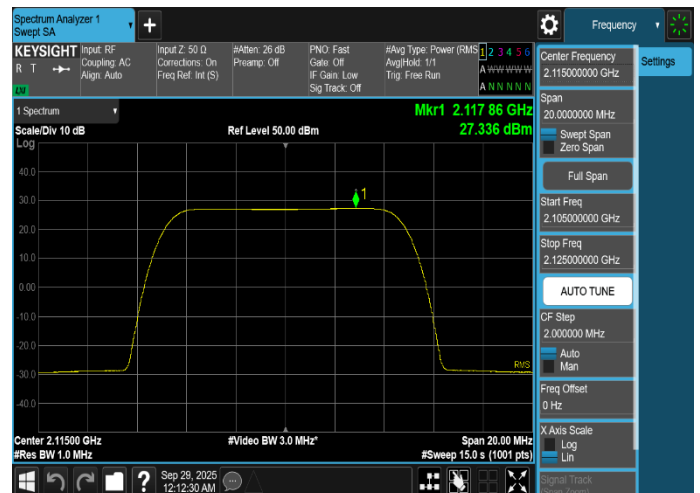
Plot 8-133. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_30M_QPSK - Low Channel, Port 13)



Plot 8-134. Equivalent Isotropically Radiated Power Plot
(NR_n66_1C_30M_64QAM - Low Channel, Port 13)



Plot 8-135. Equivalent Isotropically Radiated Power Plot
(DSS_B/n66_1C_10M_QPSK - Low Channel, Port 27)



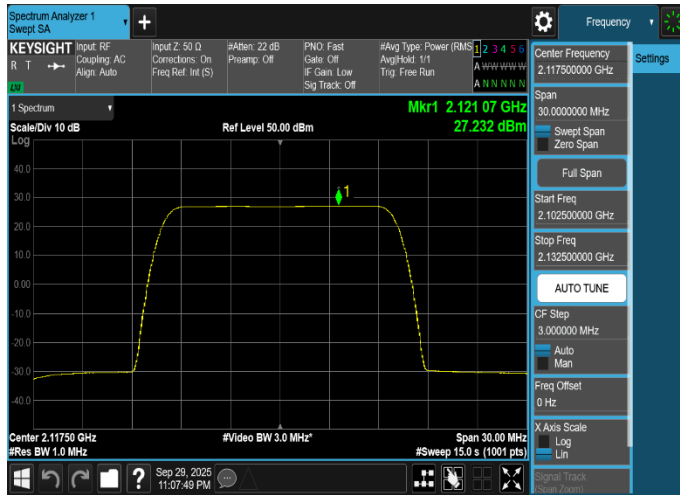
Plot 8-136. Equivalent Isotropically Radiated Power Plot
(DSS_B/n66_1C_10M_64QAM - Low Channel, Port 27)



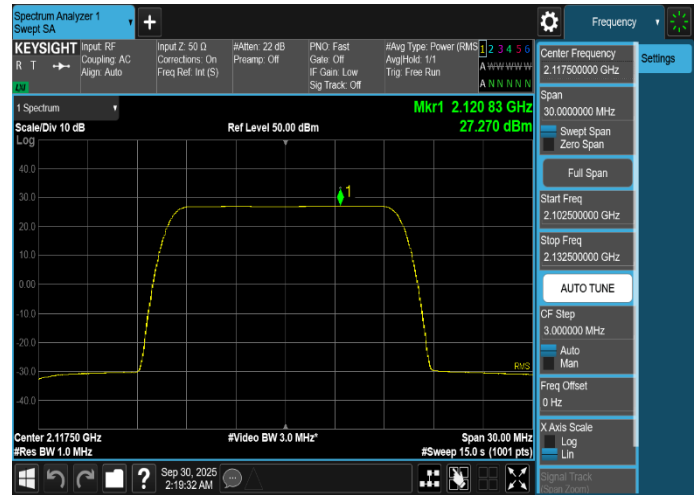
CTK Co., Ltd.

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

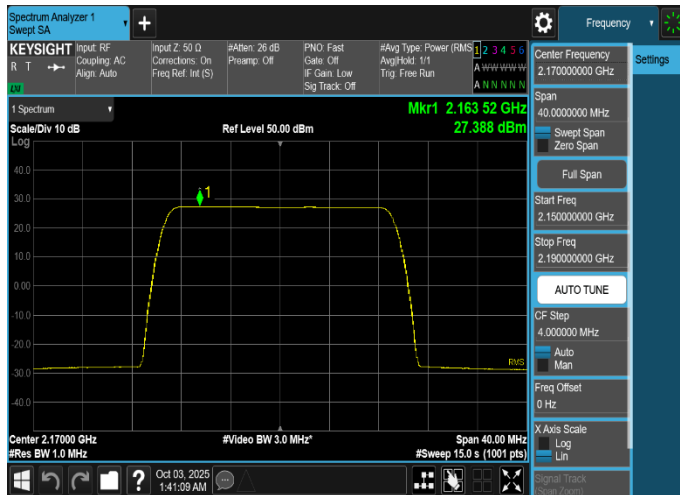
REPORT No.:
CTK-2025-03129-1
Page (173) / (480) pages



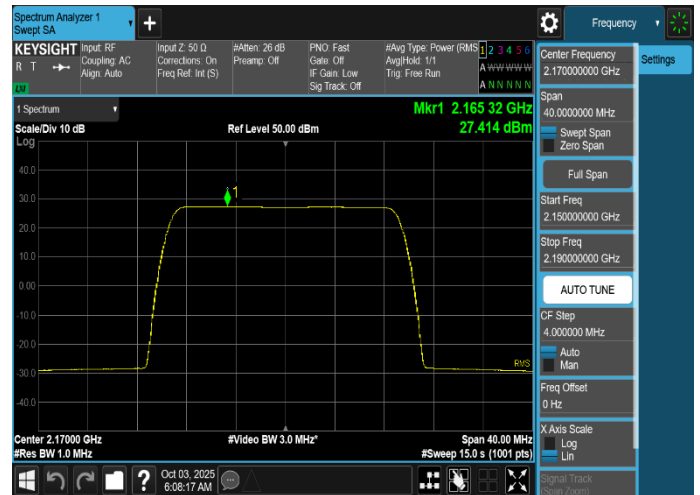
Plot 8-137. Equivalent Isotropically Radiated Power Plot
(DSS_B/n66_1C_15M_QPSK - Low Channel, Port 27)



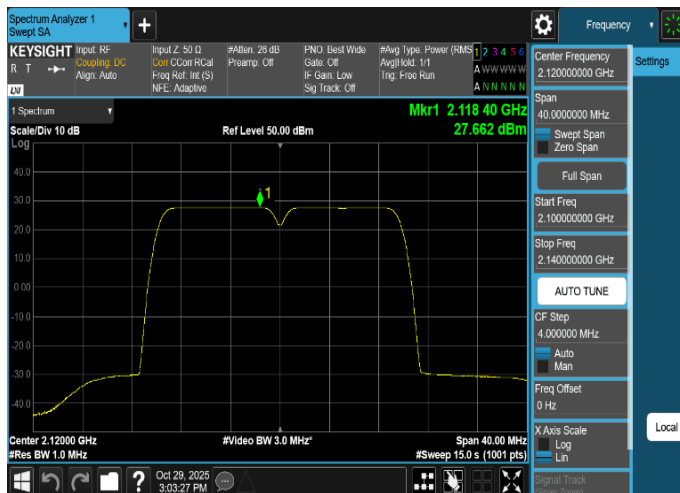
Plot 8-138. Equivalent Isotropically Radiated Power Plot
(DSS_B/n66_1C_15M_16QAM - Low Channel, Port 27)



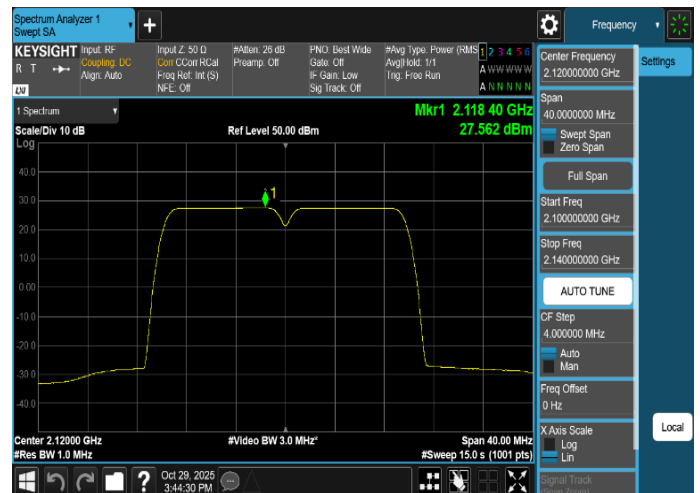
Plot 8-139. Equivalent Isotropically Radiated Power Plot
(DSS_B/n66_1C_20M_QPSK - High Channel, Port 9)



Plot 8-140. Equivalent Isotropically Radiated Power Plot
(DSS_B/n66_1C_20M_64QAM - High Channel, Port 9)



Plot 8-141. Equivalent Isotropically Radiated Power Plot
(LTE_B66_2C_10M+10M_QPSK - Low Channel, Port 7)



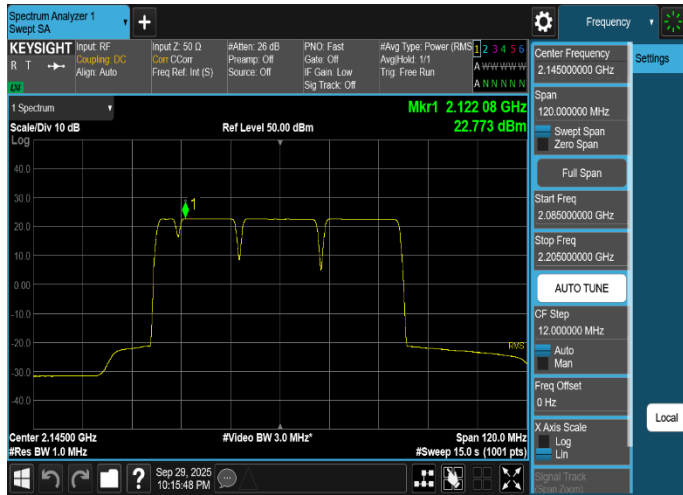
Plot 8-142. Equivalent Isotropically Radiated Power Plot
(LTE_B66_2C_10M+10M_16QAM - Low Channel, Port 7)



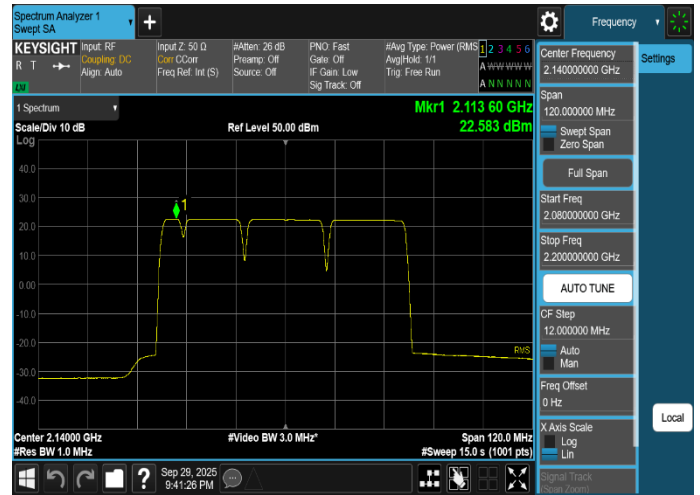
CTK Co., Ltd.

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

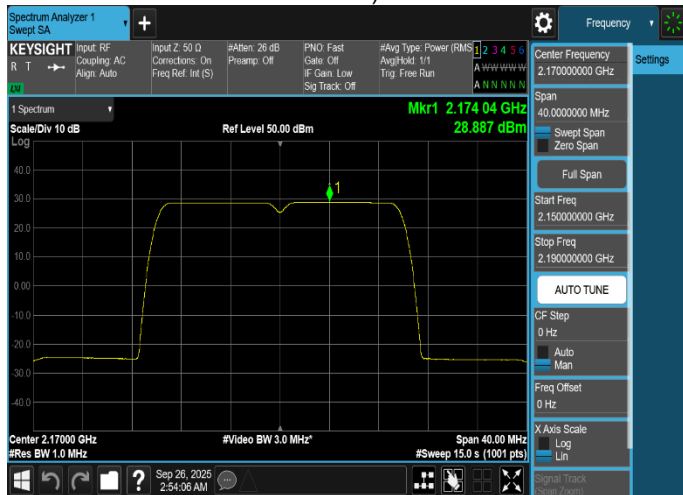
REPORT No.:
CTK-2025-03129-1
Page (174) / (480) pages



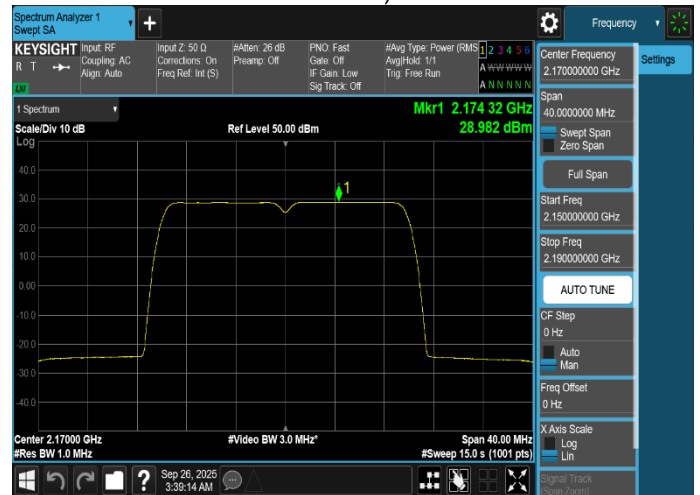
Plot 8-143. Equivalent Isotropically Radiated Power Plot
(LTE_B66_4C_5M+15M+20M+20M_QPSK - Mid Channel,
Port 0)



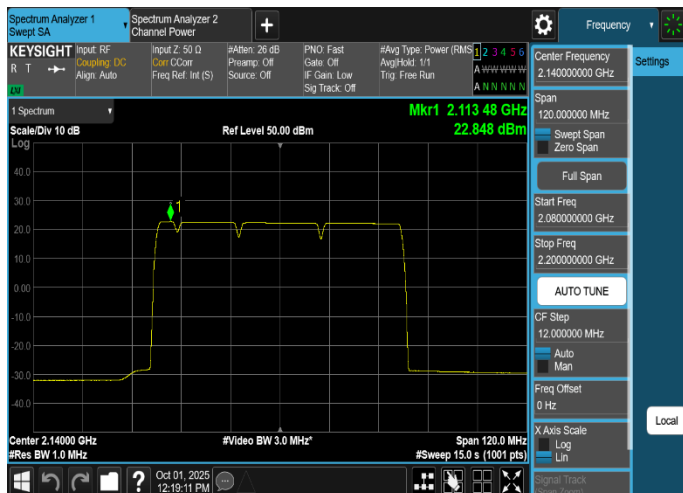
Plot 8-144. Equivalent Isotropically Radiated Power Plot
(LTE_B66_4C_5M+15M+20M+20M_16QAM - Low Channel,
Port 13)



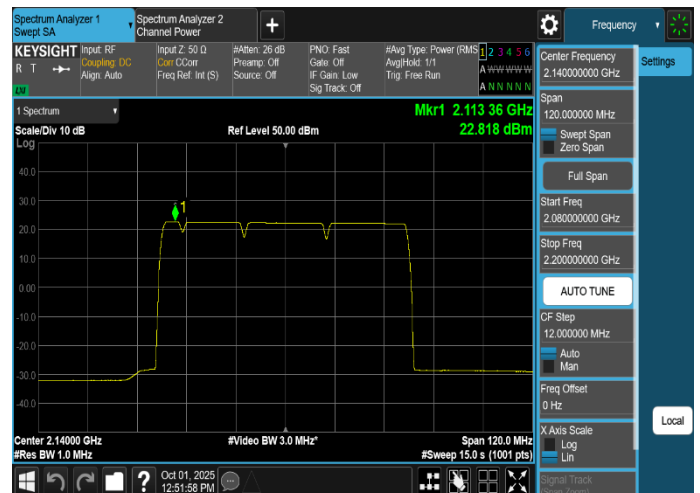
Plot 8-145. Equivalent Isotropically Radiated Power Plot
(NR_n66_2C_10M+10M_QPSK - High Channel, Port 12)



Plot 8-146. Equivalent Isotropically Radiated Power Plot
(NR_n66_2C_10M+10M_16QAM - High Channel, Port 12)



Plot 8-147. Equivalent Isotropically Radiated Power Plot
(NR_n66_4C_5M+15M+20M+20M_QPSK - Low Channel, Port



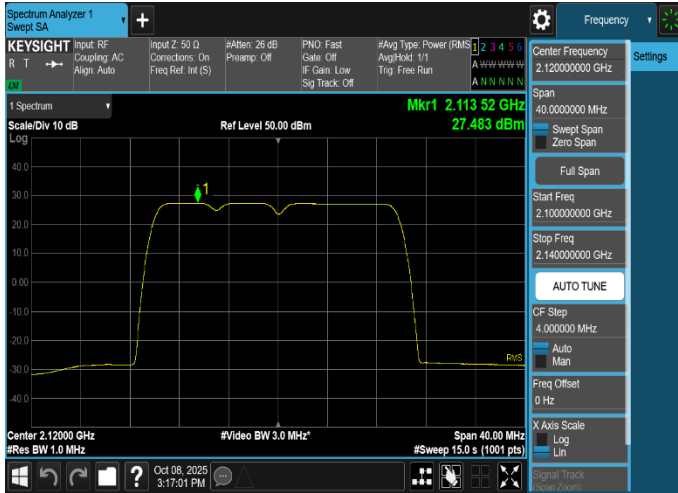
Plot 8-148. Equivalent Isotropically Radiated Power Plot
(NR_n66_4C_5M+15M+20M+20M_16QAM - Low Channel,
Port 13)



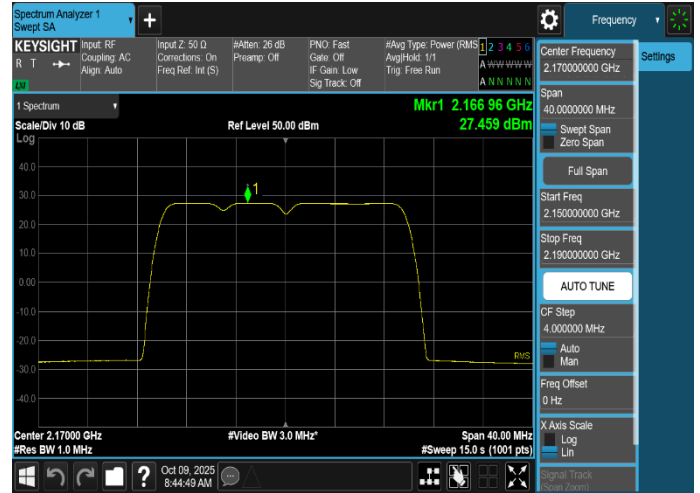
CTK Co., Ltd.

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

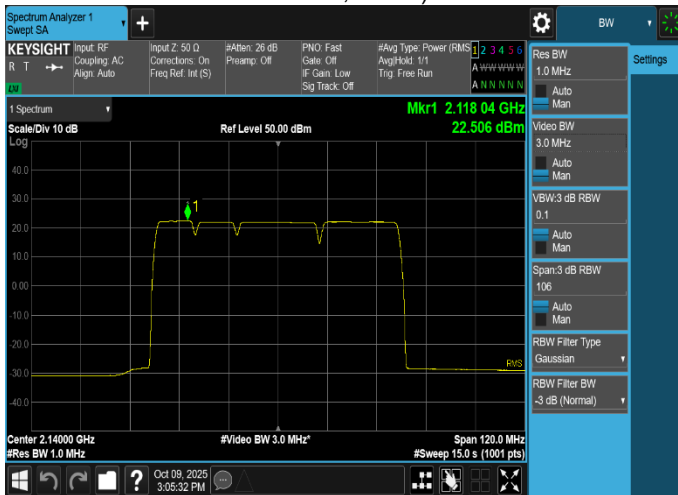
REPORT No.:
CTK-2025-03129-1
Page (175) / (480) pages



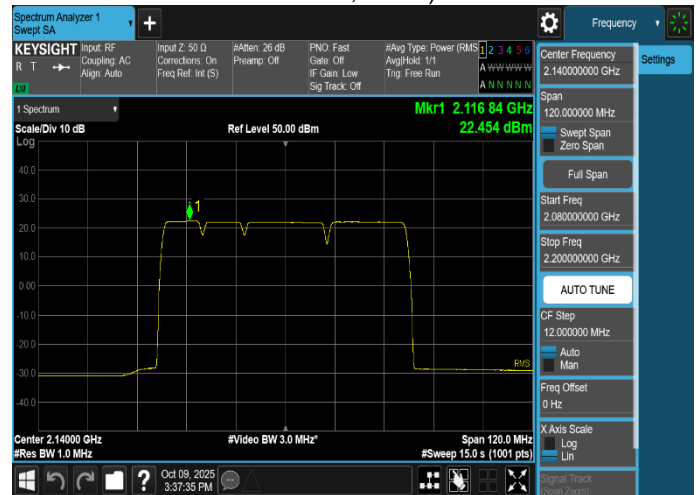
Plot 8-149. Equivalent Isotropically Radiated Power Plot
(MSR_B/n66_3C_LTE 5M+NR 5M+DSS 10M_QPSK - Low
Channel, Port 9)



Plot 8-150. Equivalent Isotropically Radiated Power Plot
(MSR_B/n66_3C_LTE 5M+NR 5M+DSS 10M_16QAM - High
Channel, Port 9)



Plot 8-151. Equivalent Isotropically Radiated Power Plot
(MSR_B/n66_4C_LTE 10M+NR 10M+NR 20M+DSS 20M
_QPSK - Low Channel, Port 13)



Plot 8-152. Equivalent Isotropically Radiated Power Plot
(MSR_B/n66_4C_LTE 10M+NR 10M+NR 20M+DSS 20M
_16QAM - Low Channel, Port 13)

8.4 Peak To Average Ratio

Test Overview

The peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7

ANSI C63.26-2015 – Section 5.2.3.4

Test Setting

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

1. The signal analyzer's CCDF function is enabled.
2. Frequency = carrier center frequency
3. Measurement BW $\geq$ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.

Test Setup

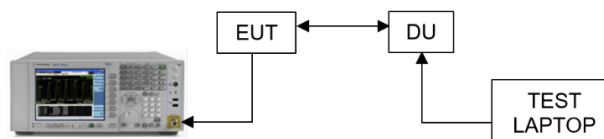


Figure 8-3. Test Instrument & Measurement Setup

Limit

§ 24.232,
 § 27.50(d)

The peak-to-average power ratio (PAPR) limit shall not exceed 13 dB for more than 0.1% of the time.

**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 (177) / (480) pages

Channel	Port	Peak To Average Power Ratio (PAPR) (dB)			
		QPSK	16QAM	64QAM	256QAM
Low	0	8.24	8.28	8.18	8.13
	1	8.21	8.26	8.17	8.13
	2	8.20	8.28	8.20	8.14
	3	8.23	8.27	8.22	8.14
	4	8.19	8.28	8.18	8.15
	5	8.19	8.27	8.18	8.16
	6	8.20	8.30	8.17	8.15
	7	8.24	8.29	8.18	8.12
	8	8.22	8.33	8.18	8.15
	9	8.26	8.32	8.20	8.15
	10	8.26	8.34	8.19	8.16
	11	8.28	8.34	8.18	8.16
	12	8.29	8.34	8.18	8.20
	13	8.28	8.35	8.16	8.24
	14	8.27	8.31	8.16	8.24
	15	8.28	8.32	8.18	8.21
	16	8.24	8.31	8.19	8.23
	17	8.25	8.29	8.23	8.26
	18	8.28	8.28	8.18	8.21
	19	8.27	8.28	8.17	8.21
	20	8.26	8.29	8.17	8.20
	21	8.29	8.27	8.18	8.21
	22	8.29	8.24	8.17	8.18
	23	8.27	8.25	8.21	8.15
	24	8.27	8.29	8.22	8.14
	25	8.25	8.27	8.20	8.12
	26	8.24	8.27	8.18	8.14
	27	8.22	8.25	8.17	8.14
	28	8.25	8.28	8.17	8.23
	29	8.24	8.26	8.18	8.24
	30	8.23	8.27	8.16	8.23
	31	8.23	8.28	8.18	8.25
Middle	0	8.23	8.32	8.21	8.22
	1	8.23	8.32	8.18	8.19
	2	8.25	8.32	8.19	8.19
	3	8.23	8.33	8.17	8.19
	4	8.23	8.33	8.19	8.20
	5	8.23	8.32	8.22	8.20
	6	8.22	8.34	8.19	8.19
	7	8.22	8.33	8.23	8.17
	8	8.22	8.34	8.23	8.17
	9	8.22	8.34	8.21	8.16
	10	8.21	8.35	8.19	8.17
	11	8.22	8.35	8.19	8.16
	12	8.20	8.36	8.19	8.17
	13	8.21	8.35	8.18	8.14
	14	8.22	8.37	8.17	8.15
	15	8.22	8.36	8.23	8.11
	16	8.20	8.23	8.17	8.25
	17	8.23	8.34	8.25	8.13