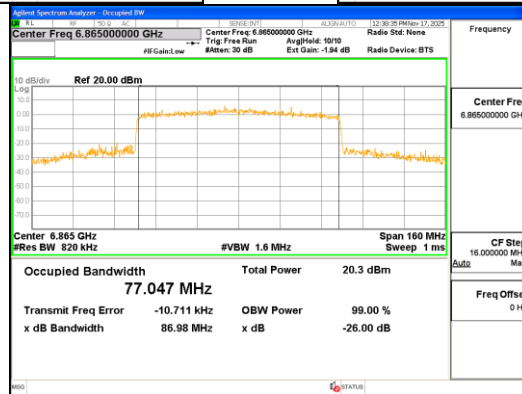
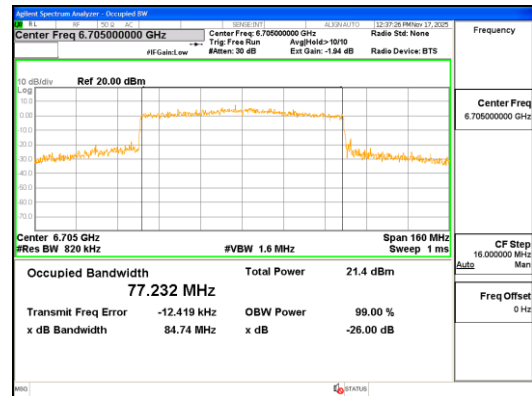
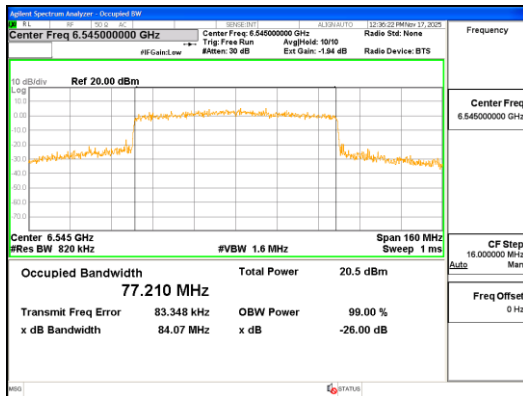




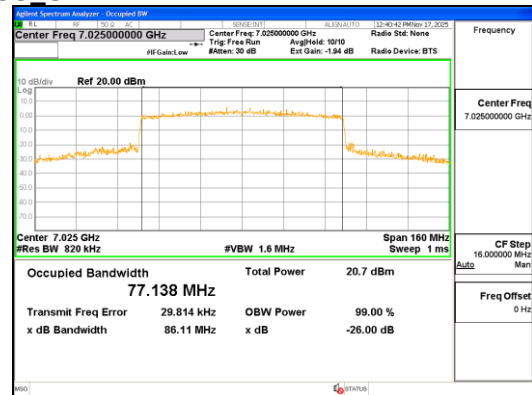
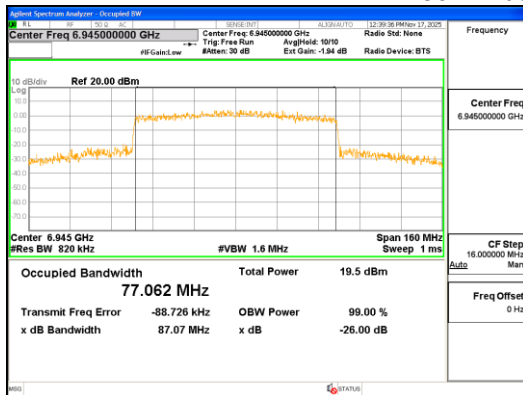
CTK Co., Ltd.

(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-2025-03707
Page (32) / (166) Pages



802.11b_EHT80_SU_UNII 7



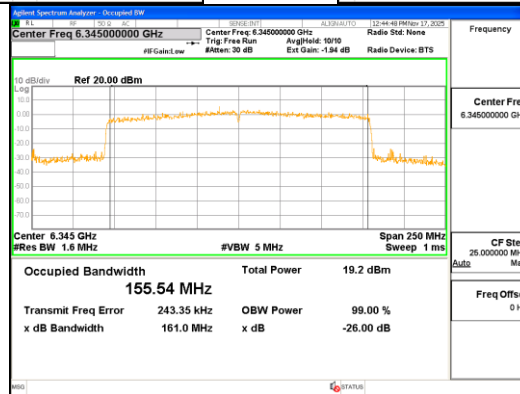
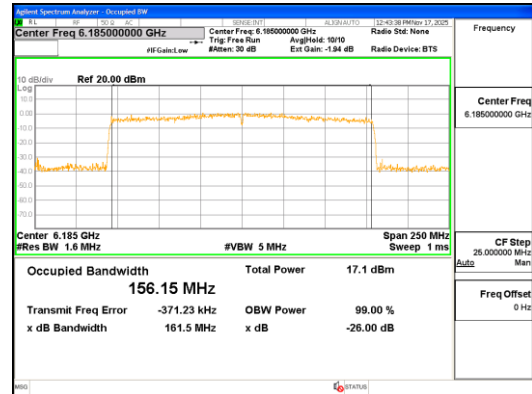
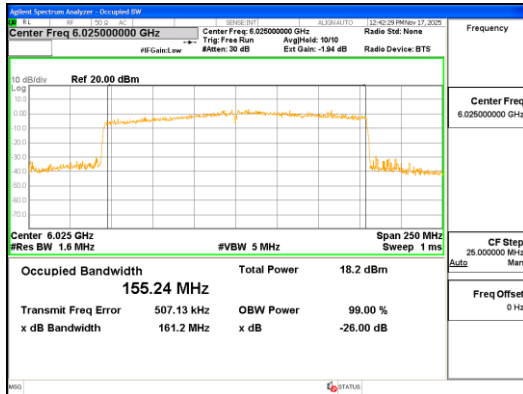
802.11b_EHT80_SU_UNII 8



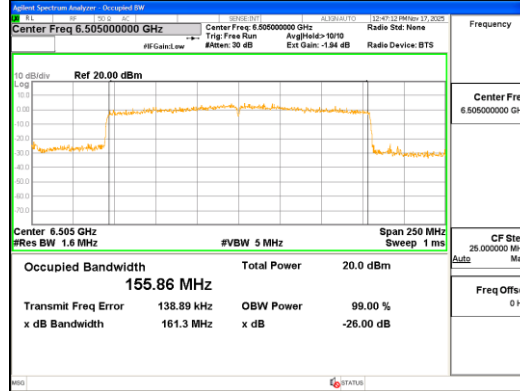
CTK Co., Ltd.

(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-2025-03707
Page (33) / (166) Pages



802.11ax HE160 SU UNII 5

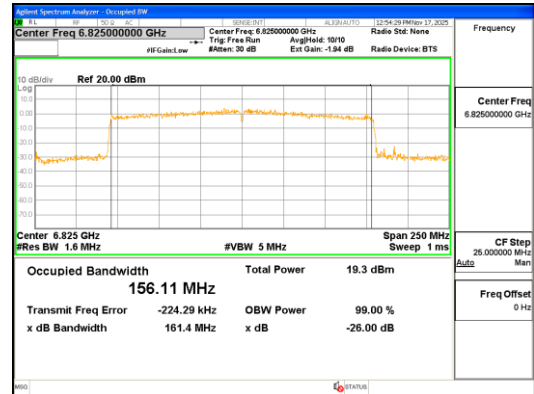
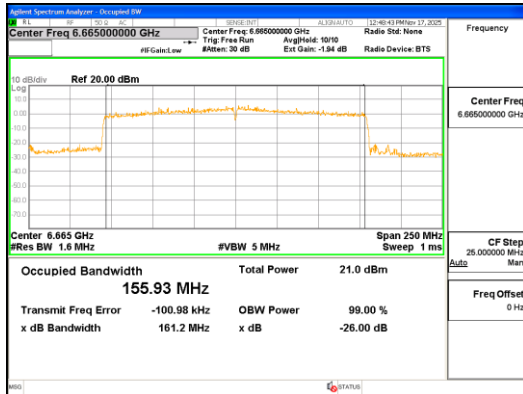


802.11ax_HE160_SU_UNII 6

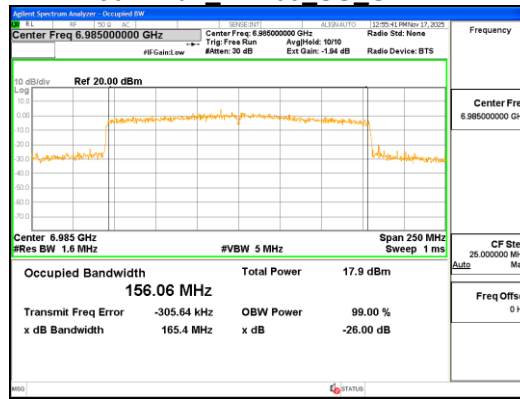


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-03707
Page (34) / (166) Pages



802.11ax HE160 SU UNII 7



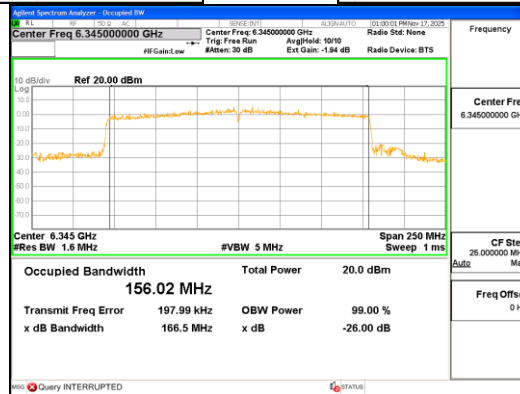
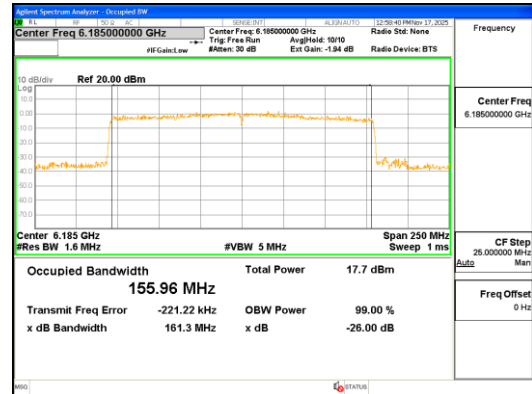
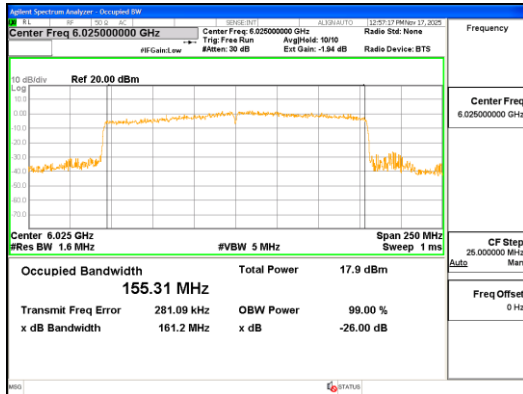
802.11ax_HE160_SU_UNII 8



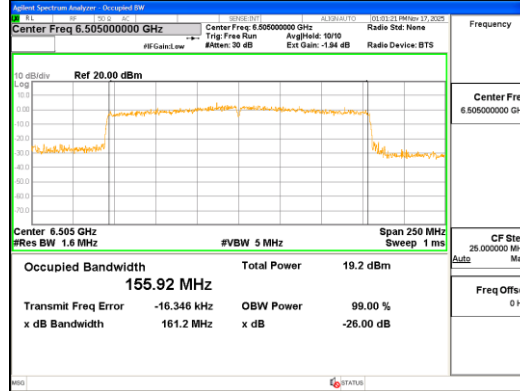
CTK Co., Ltd.

(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-2025-03707
Page (35) / (166) Pages



802.11be EHT160_SU_UNII 5

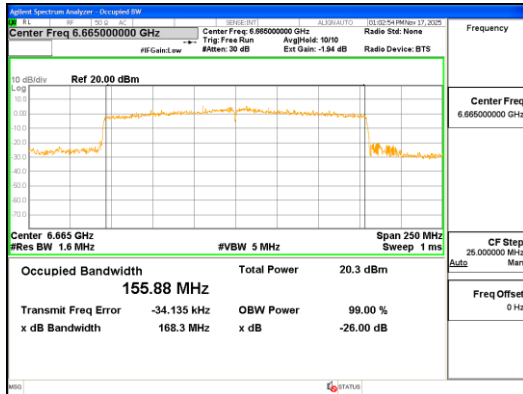


802.11be EHT160_SU_UNII 6

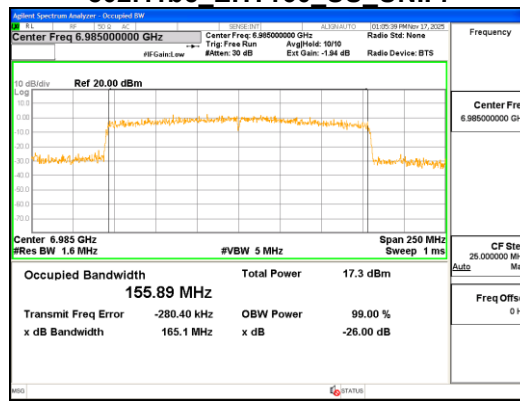
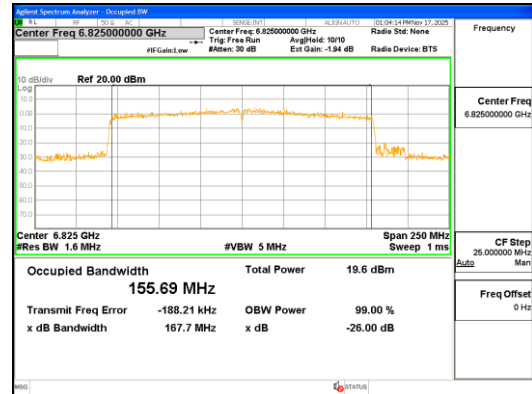


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-03707
Page (36) / (166) Pages



802.11be EHT160 SU UNII 7



802.11be_EHT160_SU_UNII 8

**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-2025-03707
Page (37) / (166) Pages

4.2 OUTPUT POWER

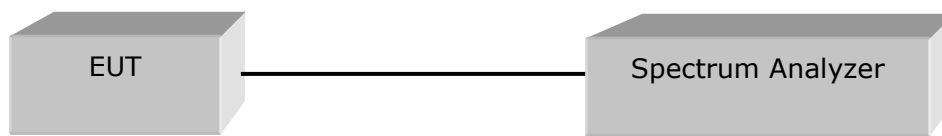
Test Procedures

KDB 987594 – Section E

KDB 789033 – Section E.2.d (Method SA-2, Maximum Conducted Output Power)

ANSI C63.10-2020 – Section 12.4.2.4

The transmitter output is connected to a spectrum analyzer and the analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth.



Test Settings :

Center frequency = the highest, middle and the lowest channels

a) RBW = 1 MHz

b) VBW $\geq 3 \times$ RBW

c) Sweep time = auto

d) Detector = power averaging (rms)

e) Trace mode = Average at least 100

f) Duty cycle factor = $10\log(1/x)$

Test mode	Duty Cycle Factor (dB)
802.11a	1.17
802.11ax_HE20_SU	3.78
802.11ax_HE40_SU	3.78
802.11ax HE80_SU	3.90
802.11ax HE160_SU	3.88
802.11be_EHT20_SU	3.39
802.11be_EHT40_SU	3.39
802.11be_EHT80_SU	3.50
802.11be_EHT160_SU	3.48

Limit

Device Type	Operating Mode	ANT Configuration	ANT Gain (dBi)	Mode	Band	Limit (dBm)
6iD	SISO	ANT0	1.90	802.11a/ax/be	UNII 5 UNII 6 UNII 7 UNII 8	30.00 EIRP

**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-2025-03707
Page (38) / (166) Pages

Test Data

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 975	6.85	1.17	1.90	9.92	30.00	20.08
	6 215	7.21	1.17		10.28	30.00	19.72
	6 375	10.48	1.17		13.55	30.00	16.45
	6 455	11.06	1.17		14.13	30.00	15.87
	6 535	10.40	1.17		13.47	30.00	16.53
	6 695	10.81	1.17		13.88	30.00	16.12
	6 855	10.05	1.17		13.12	30.00	16.88
	6 935	10.13	1.17		13.20	30.00	16.80
	7 015	9.39	1.17		12.46	30.00	17.54
	7 095	9.82	1.17		12.89	30.00	17.11

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _SU	5 955	3.69	3.78	1.90	9.37	30.00	20.63
	6 175	5.30	3.78		10.98	30.00	19.02
	6 415	8.20	3.78		13.88	30.00	16.12
	6 435	7.84	3.78		13.52	30.00	16.48
	6 475	7.60	3.78		13.28	30.00	16.72
	6 515	8.10	3.78		13.78	30.00	16.22
	6 535	7.98	3.78		13.66	30.00	16.34
	6 695	7.85	3.78		13.53	30.00	16.47
	6 855	7.57	3.78		13.25	30.00	16.75
	6 875	7.89	3.78		13.57	30.00	16.43
	6 995	7.27	3.78		12.95	30.00	17.05
	7 095	7.55	3.78		13.23	30.00	16.77
	7 115	0.60	3.78		6.28	30.00	23.72

**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-2025-03707
Page (39) / (166) Pages

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11be _EHT20 _SU	5 955	3.62	3.39	1.90	8.91	30.00	21.09
	6 175	5.75	3.39		11.04	30.00	18.96
	6 415	8.66	3.39		13.95	30.00	16.05
	6 435	8.45	3.39		13.74	30.00	16.26
	6 475	8.18	3.39		13.47	30.00	16.53
	6 515	8.15	3.39		13.44	30.00	16.56
	6 535	8.33	3.39		13.62	30.00	16.38
	6 695	8.48	3.39		13.77	30.00	16.23
	6 855	8.09	3.39		13.38	30.00	16.62
	6 875	8.44	3.39		13.73	30.00	16.27
	6 995	8.02	3.39		13.31	30.00	16.69
	7 095	8.15	3.39		13.44	30.00	16.56
	7 115	1.42	3.39		6.71	30.00	23.29

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE40 _SU	5 965	6.47	3.78	1.90	12.15	30.00	17.85
	6 165	7.65	3.78		13.33	30.00	16.67
	6 405	11.24	3.78		16.92	30.00	13.08
	6 445	10.27	3.78		15.95	30.00	14.05
	6 485	10.54	3.78		16.22	30.00	13.78
	6 525	10.44	3.78		16.12	30.00	13.88
	6 685	10.14	3.78		15.82	30.00	14.18
	6 845	10.40	3.78		16.08	30.00	13.92
	6 885	10.59	3.78		16.27	30.00	13.73
	7 005	8.94	3.78		14.62	30.00	15.38
	7 085	9.58	3.78		15.26	30.00	14.74

**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-2025-03707
Page (40) / (166) Pages

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11be_EHT40_SU	5 965	6.99	3.39	1.90	12.28	30.00	17.72
	6 165	8.05	3.39		13.34	30.00	16.66
	6 405	11.19	3.39		16.48	30.00	13.52
	6 445	10.80	3.39		16.09	30.00	13.91
	6 485	10.55	3.39		15.84	30.00	14.16
	6 525	10.69	3.39		15.98	30.00	14.02
	6 685	11.29	3.39		16.58	30.00	13.42
	6 845	10.71	3.39		16.00	30.00	14.00
	6 885	10.77	3.39		16.06	30.00	13.94
	7 005	10.04	3.39		15.33	30.00	14.67
	7 085	10.37	3.39		15.66	30.00	14.34

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax_HE80_SU	5 985	9.01	3.90	1.90	14.81	30.00	15.19
	6 145	9.87	3.90		15.67	30.00	14.33
	6 385	13.59	3.90		19.39	30.00	10.61
	6 465	12.00	3.90		17.80	30.00	12.20
	6 545	11.80	3.90		17.60	30.00	12.40
	6 705	12.63	3.90		18.43	30.00	11.57
	6 865	11.71	3.90		17.51	30.00	12.49
	6 945	11.59	3.90		17.39	30.00	12.61
	7 025	10.84	3.90		16.64	30.00	13.36

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11be_EHT80_SU	5 985	9.86	3.50	1.90	15.26	30.00	14.74
	6 145	10.92	3.50		16.32	30.00	13.68
	6 385	13.89	3.50		19.29	30.00	10.71
	6 465	12.82	3.50		18.22	30.00	11.78
	6 545	12.51	3.50		17.91	30.00	12.09
	6 705	13.58	3.50		18.98	30.00	11.02
	6 865	12.61	3.50		18.01	30.00	11.99
	6 945	12.12	3.50		17.52	30.00	12.48
	7 025	11.04	3.50		16.44	30.00	13.56

**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-2025-03707
Page (41) / (166) Pages

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE160 _SU	6 025	9.35	3.90	1.90	15.15	30.00	14.85
	6 185	8.62	3.90		14.42	30.00	15.58
	6 345	10.91	3.90		16.71	30.00	13.29
	6 505	11.12	3.90		16.92	30.00	13.08
	6 665	11.70	3.90		17.50	30.00	12.50
	6 825	10.85	3.90		16.65	30.00	13.35
	6 985	9.97	3.90		15.77	30.00	14.23

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11be _EHT160 _SU	6 025	9.72	3.90	1.90	15.52	30.00	14.48
	6 185	9.09	3.90		14.89	30.00	15.11
	6 345	11.22	3.90		17.02	30.00	12.98
	6 505	11.56	3.90		17.36	30.00	12.64
	6 665	12.06	3.90		17.86	30.00	12.14
	6 825	11.27	3.90		17.07	30.00	12.93
	6 985	10.46	3.90		16.26	30.00	13.74

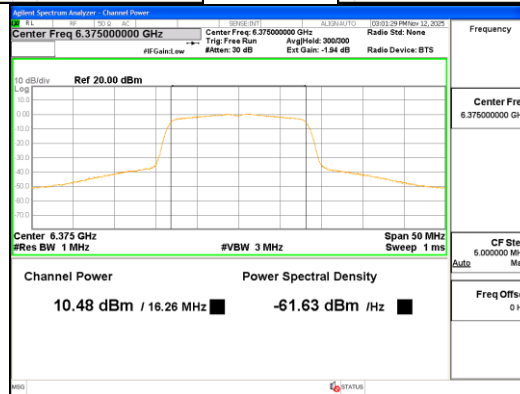
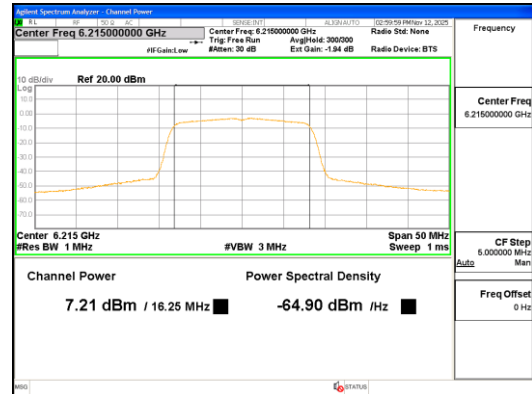
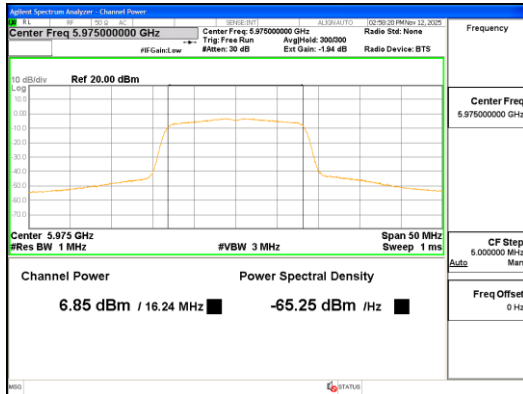
See next pages for actual measured spectrum plots.



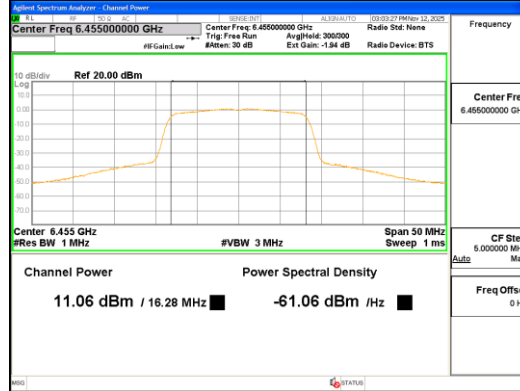
CTK Co., Ltd.

(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-2025-03707
Page (42) / (166) Pages



802.11a_UNII 5



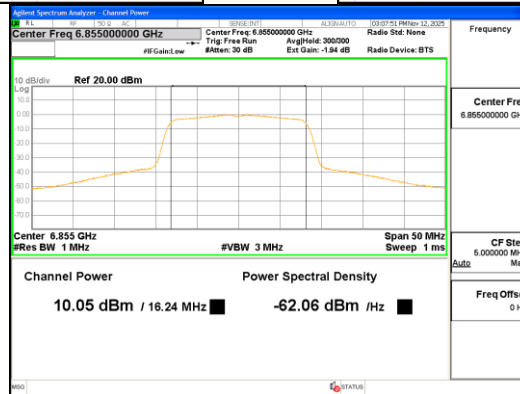
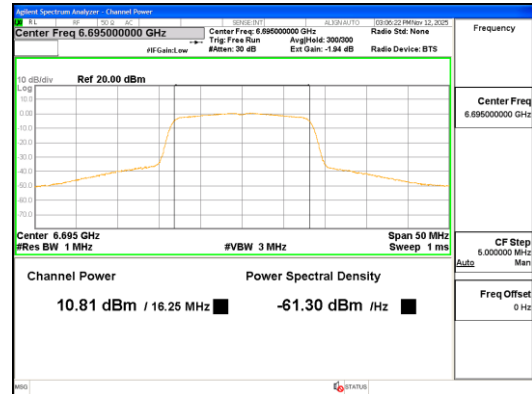
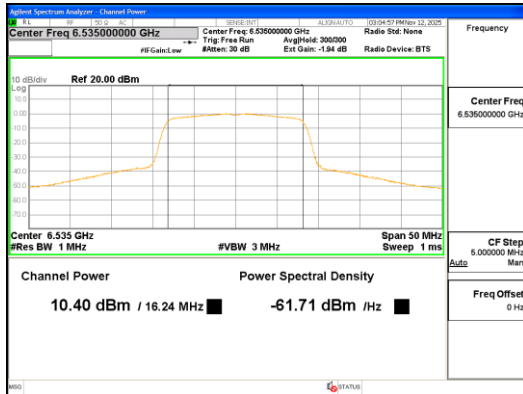
802.11a_UNII 6



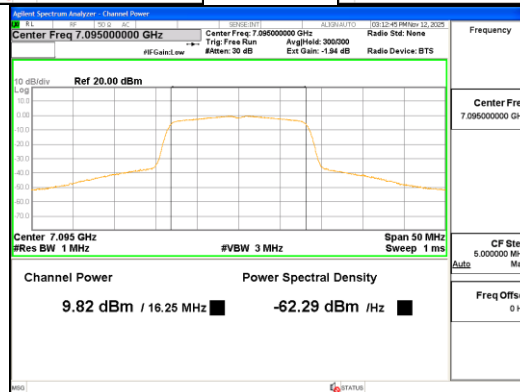
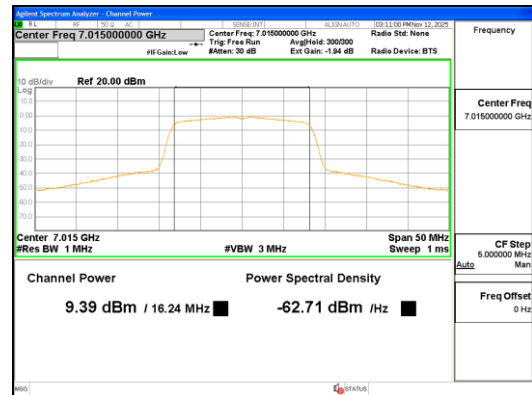
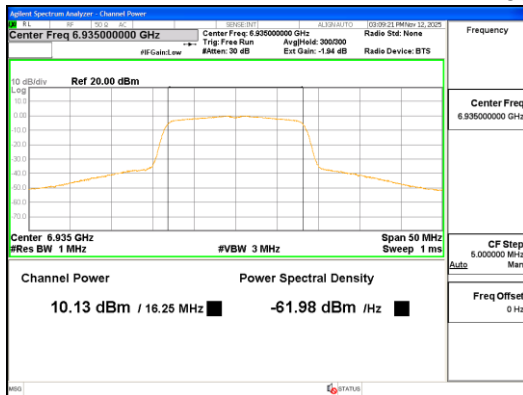
CTK Co., Ltd.

(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-2025-03707
Page (43) / (166) Pages



802.11a_UNII 7



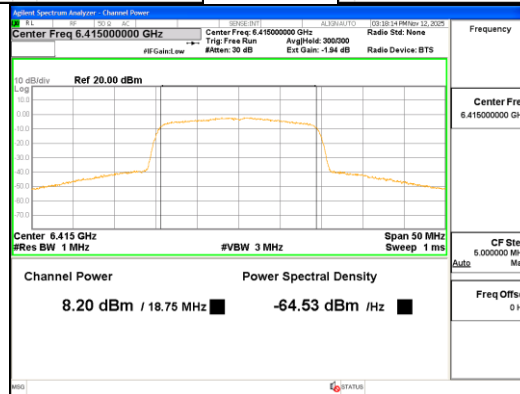
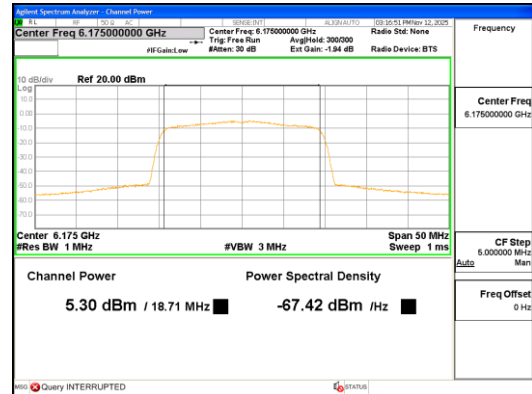
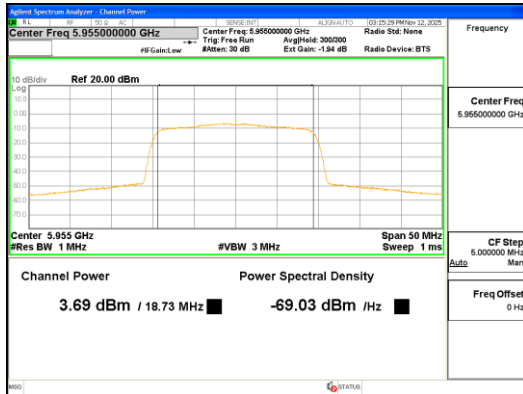
802.11a_UNII 8



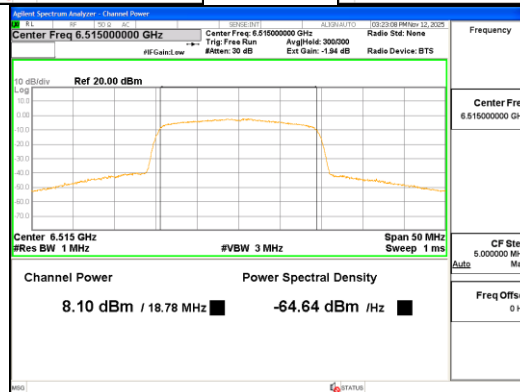
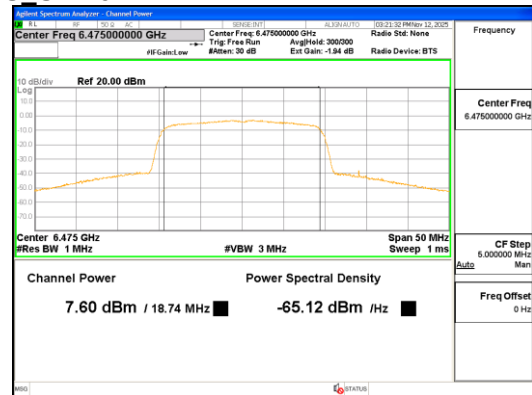
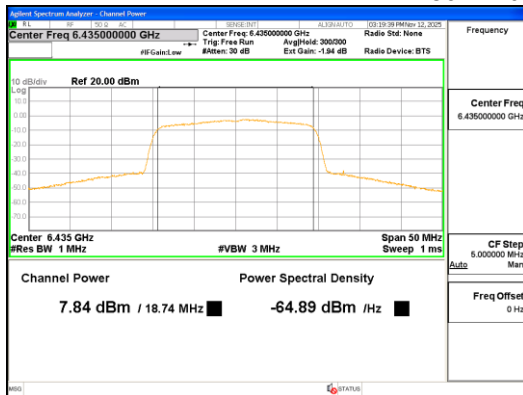
CTK Co., Ltd.

(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-2025-03707
Page (44) / (166) Pages



802.11ax_HE20_SU_UNII 5



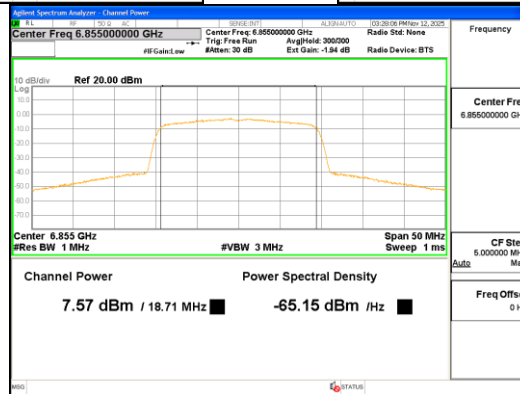
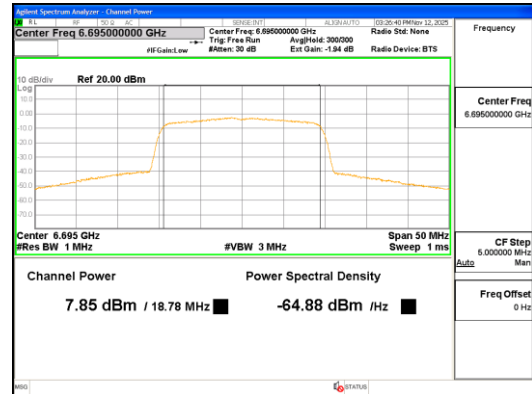
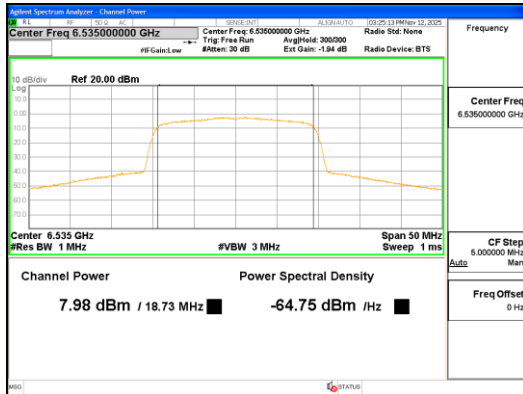
802.11ax_HE20_SU_UNII 6



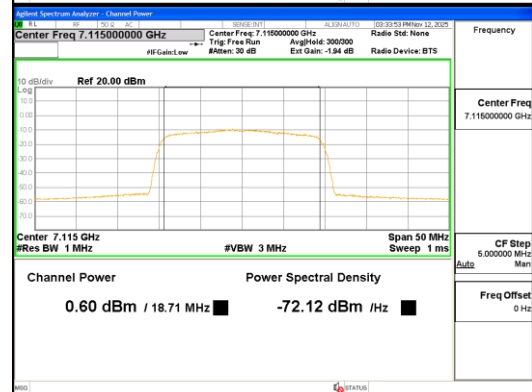
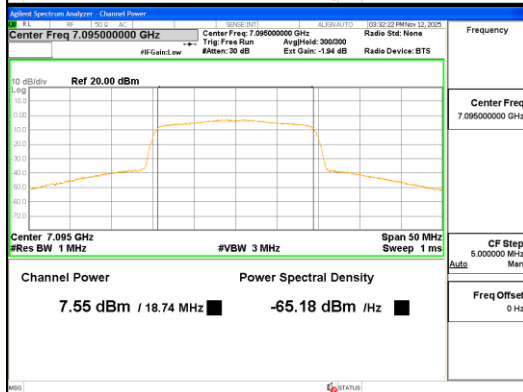
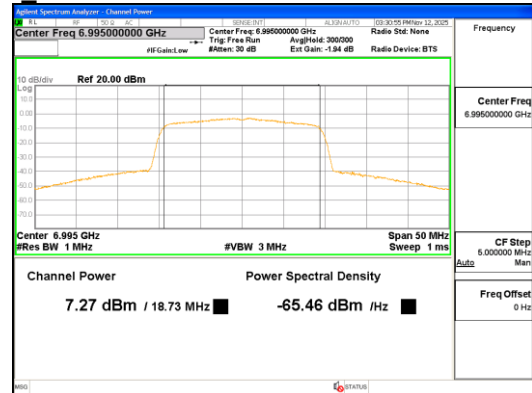
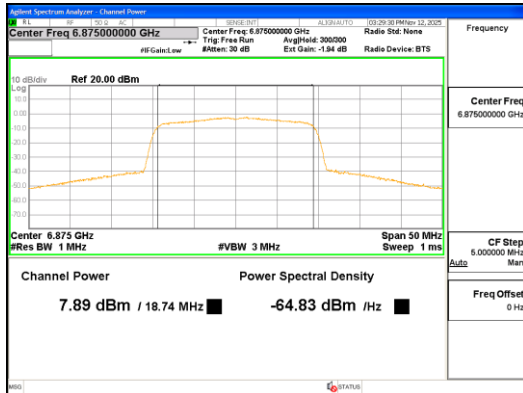
CTK Co., Ltd.

(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-2025-03707
Page (45) / (166) Pages



802.11ax_HE20_SU_UNII 7



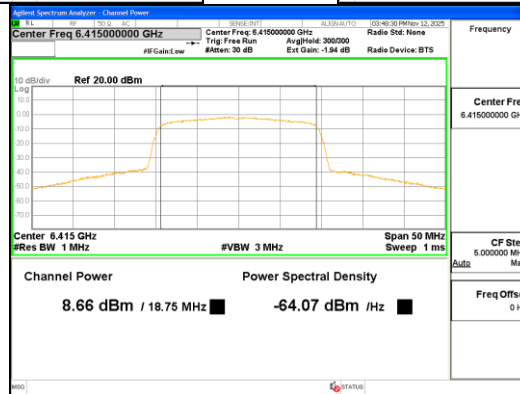
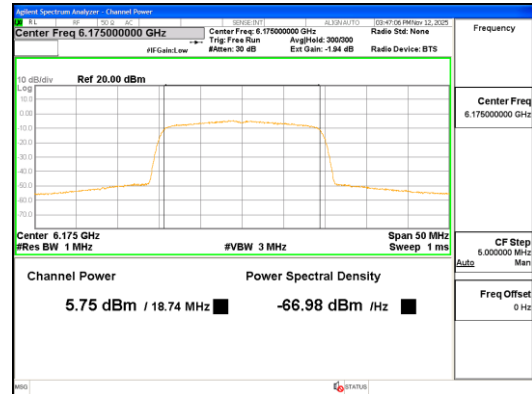
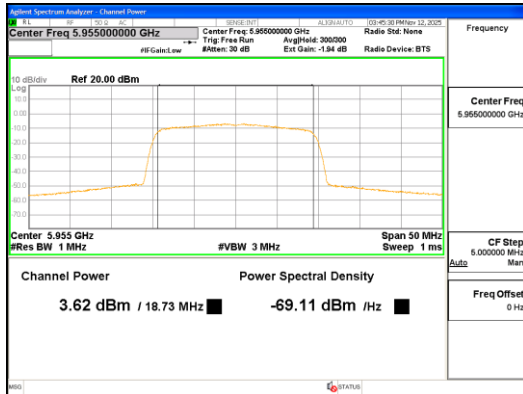
802.11ax_HE20_SU_UNII 8



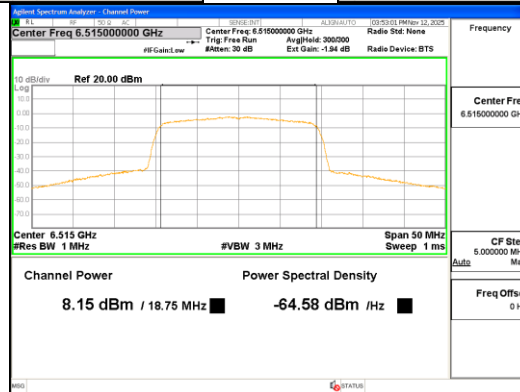
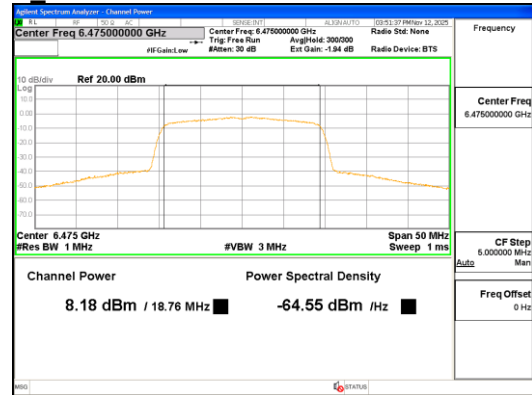
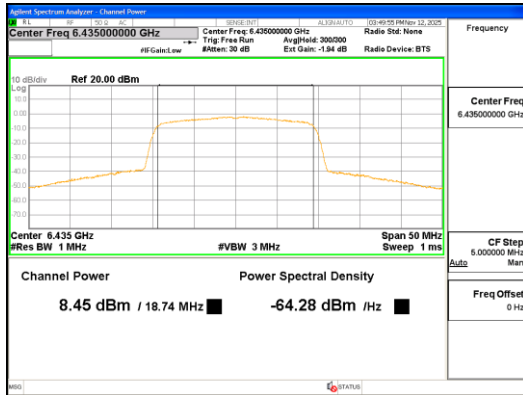
CTK Co., Ltd.

(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-2025-03707
Page (46) / (166) Pages



802.11be_EHT20_SU_UNII 5



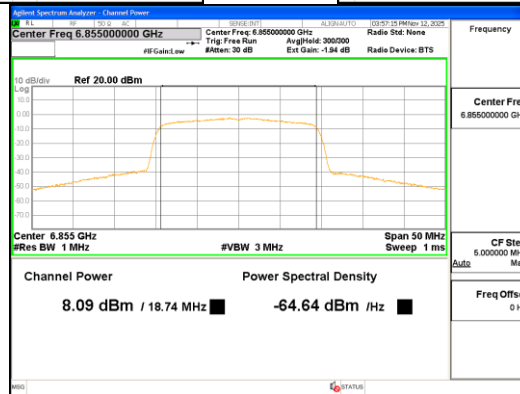
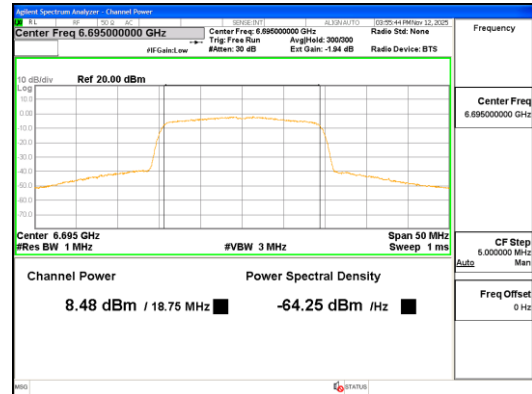
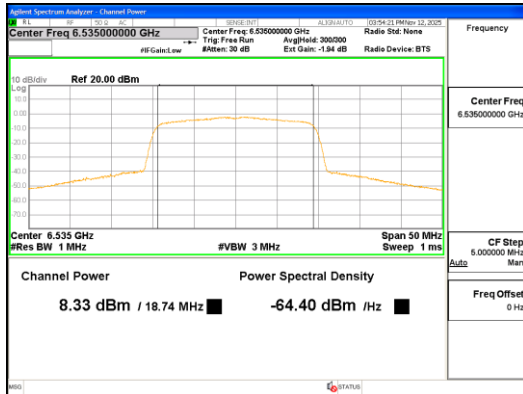
802.11be_EHT20_SU_UNII 6



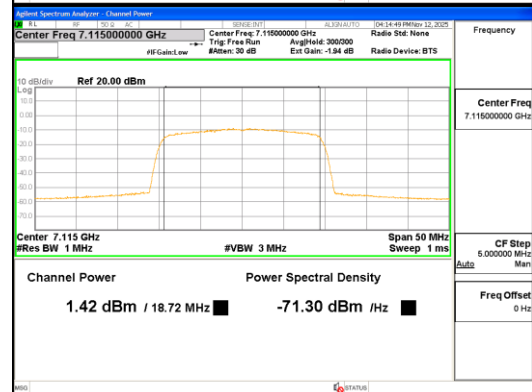
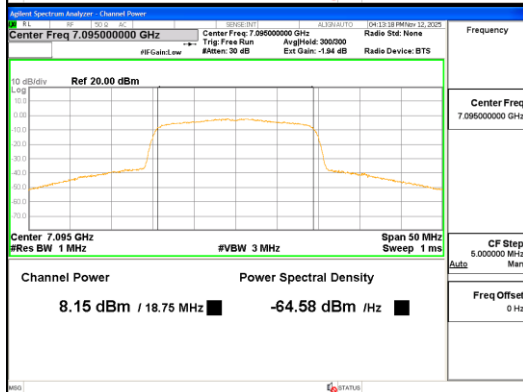
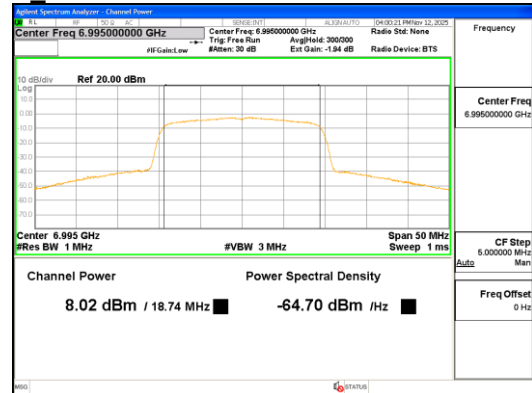
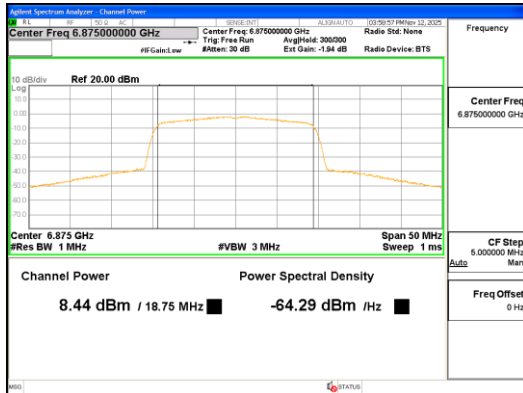
CTK Co., Ltd.

(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-2025-03707
Page (47) / (166) Pages



802.11be_EHT20_SU_UNII 7



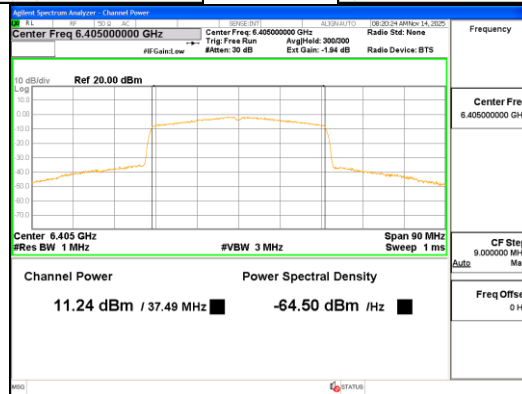
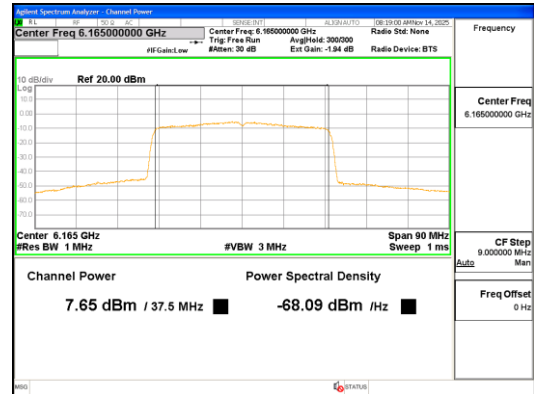
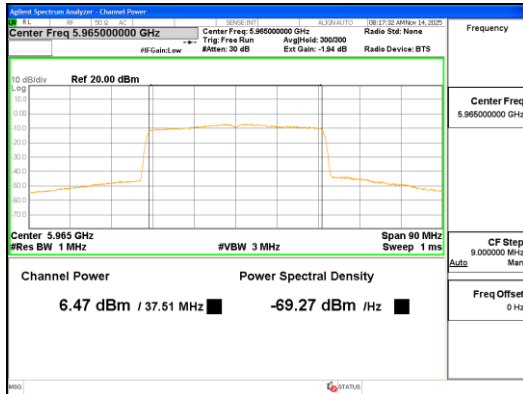
802.11be_EHT20_SU_UNII 8



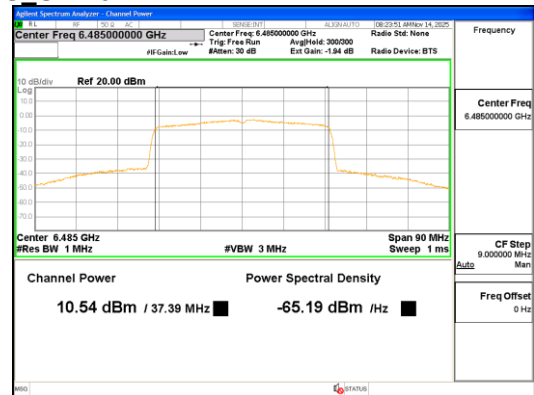
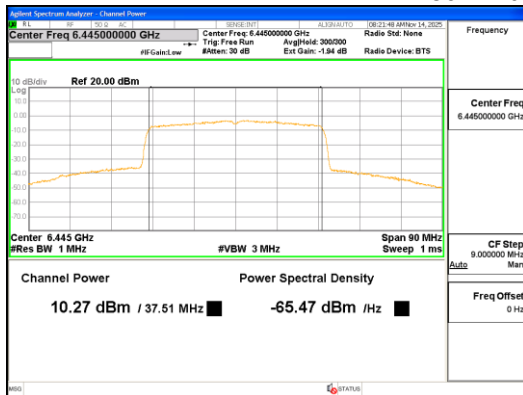
CTK Co., Ltd.

(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-2025-03707
Page (48) / (166) Pages



802.11ax_HE40_SU_UNII 5



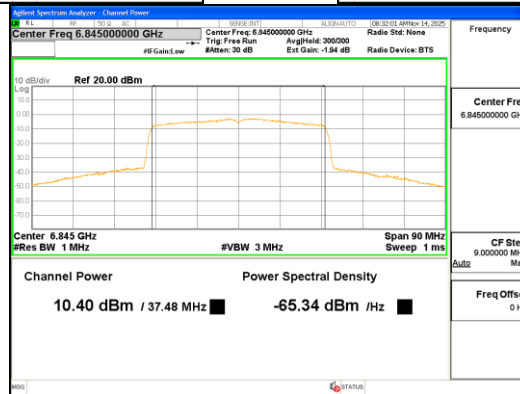
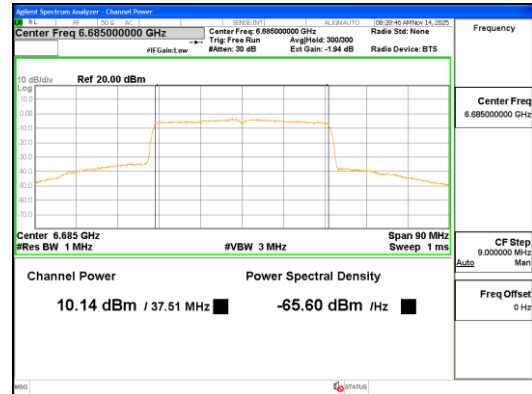
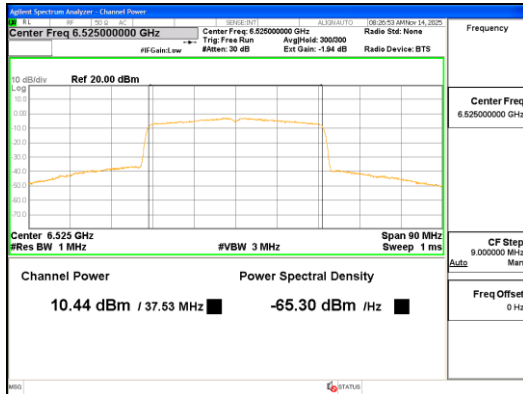
802.11ax_HE40_SU_UNII 6



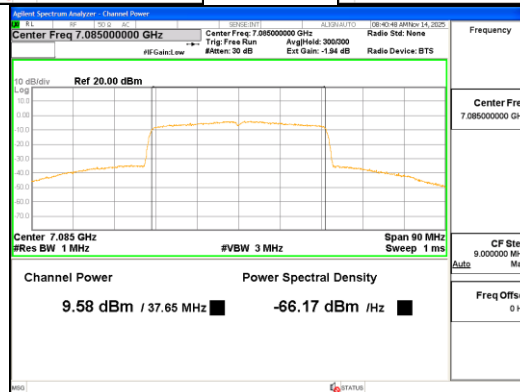
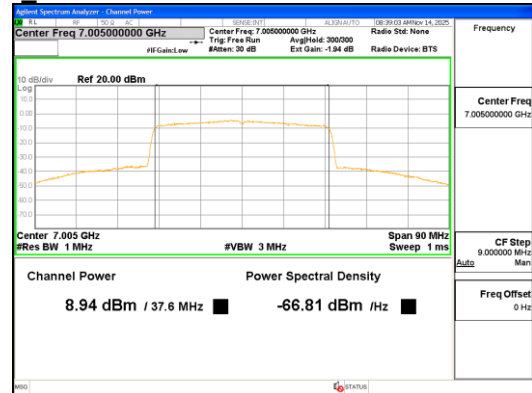
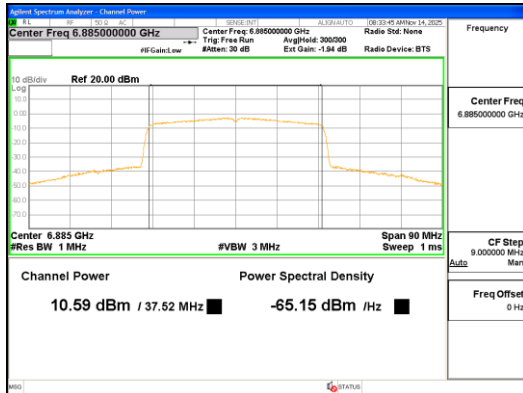
CTK Co., Ltd.

(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-2025-03707
Page (49) / (166) Pages



802.11ax_HE40_SU_UNII 7



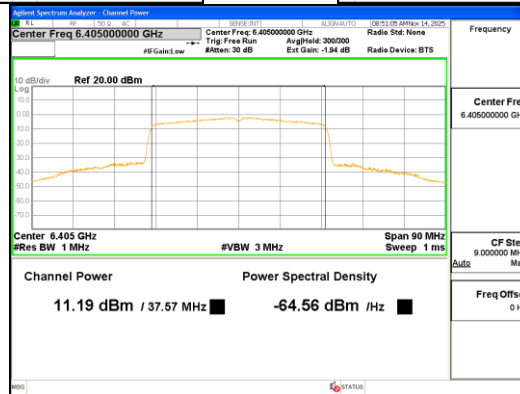
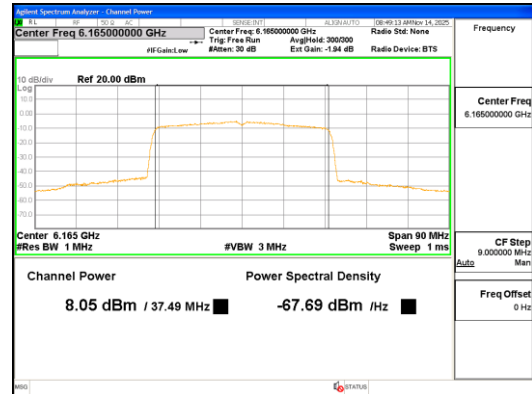
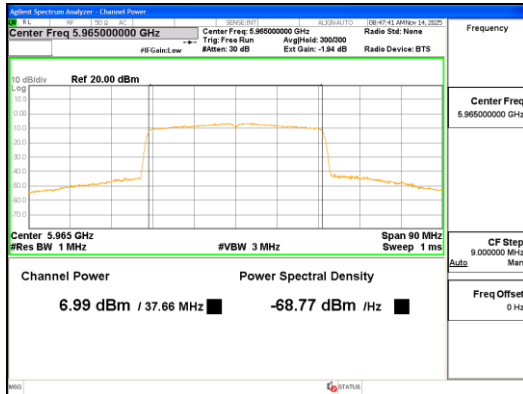
802.11ax_HE40_SU_UNII 8



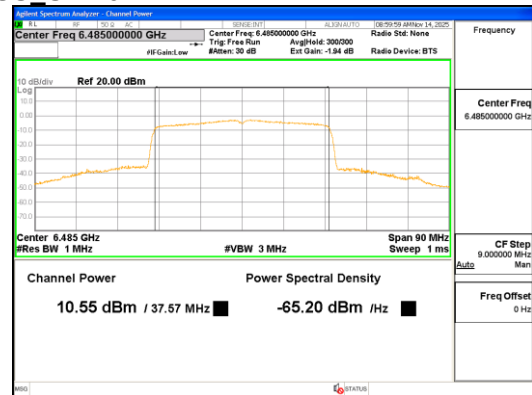
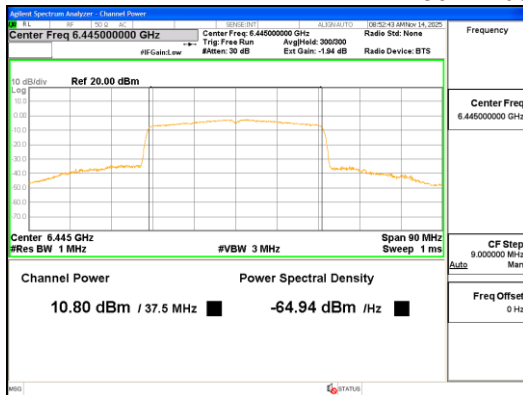
CTK Co., Ltd.

(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-2025-03707
Page (50) / (166) Pages



802.11be_EHT40_SU_UNII 5



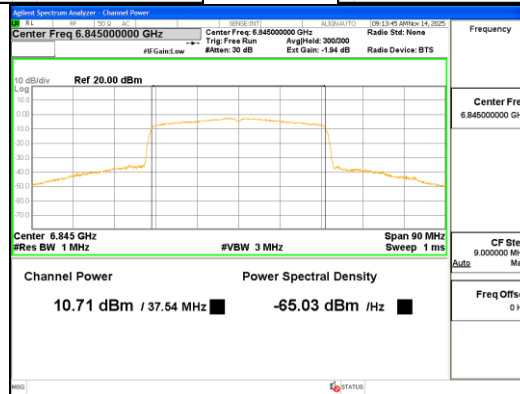
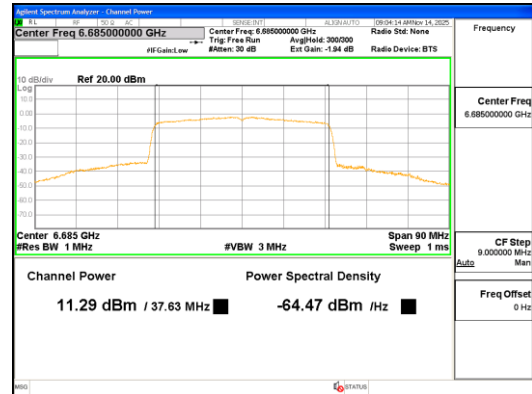
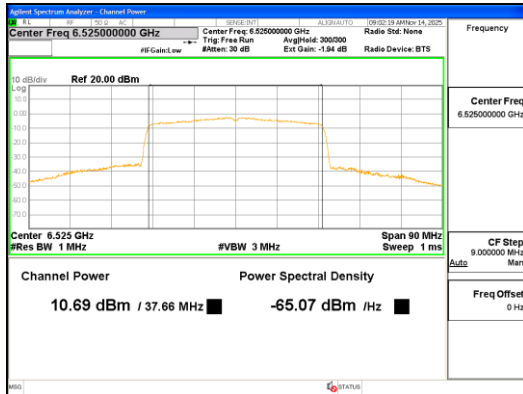
802.11be_EHT40_SU_UNII 6



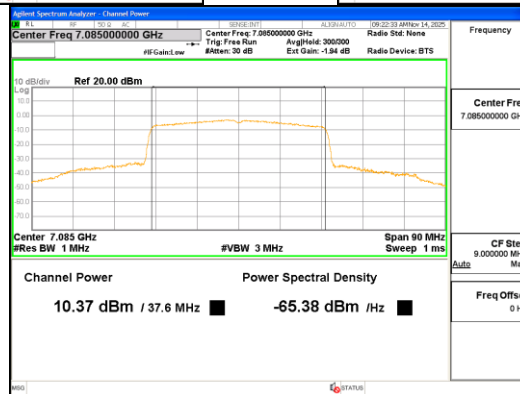
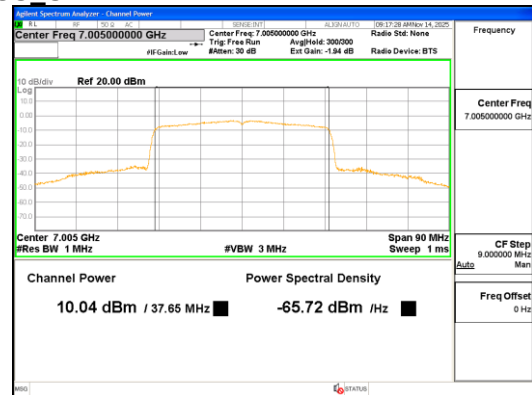
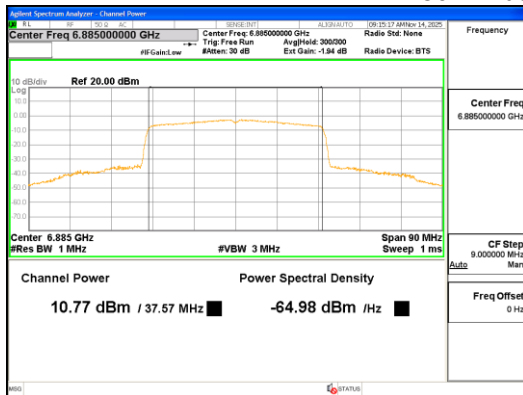
CTK Co., Ltd.

(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-2025-03707
Page (51) / (166) Pages



802.11be_EHT40_SU_UNII 7



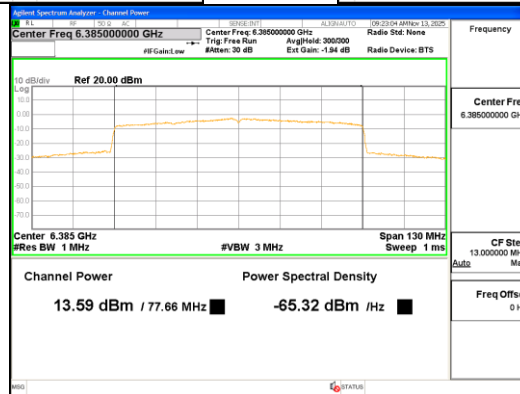
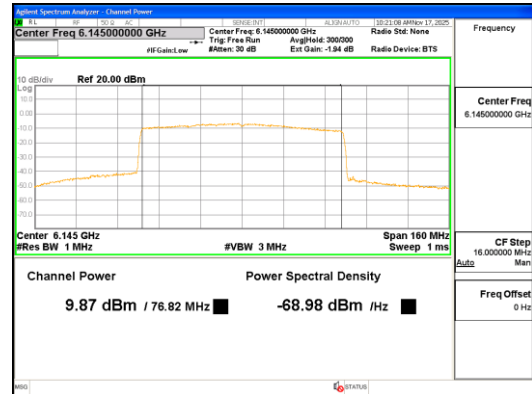
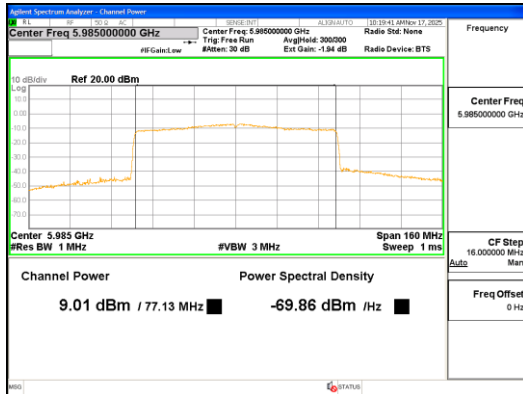
802.11be_EHT40_SU_UNII 8



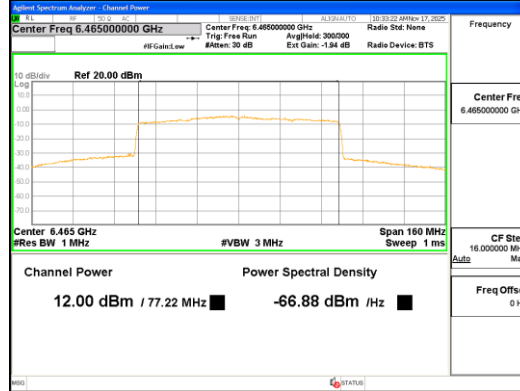
CTK Co., Ltd.

(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-2025-03707
Page (52) / (166) Pages



802.11ax_HE80_SU_UNII 5



802.11ax_HE80_SU_UNII 6