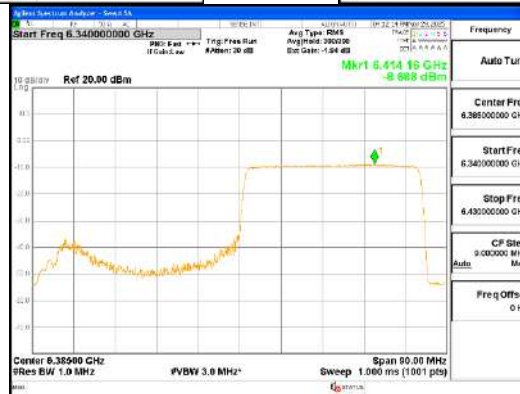
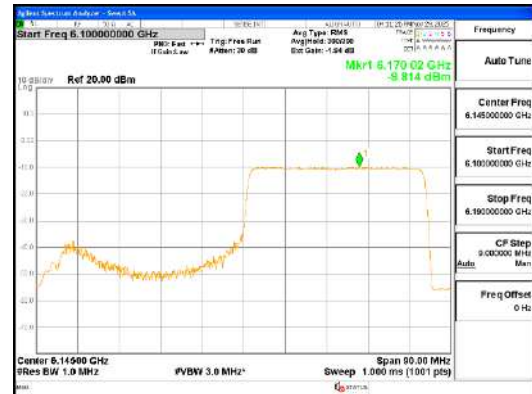
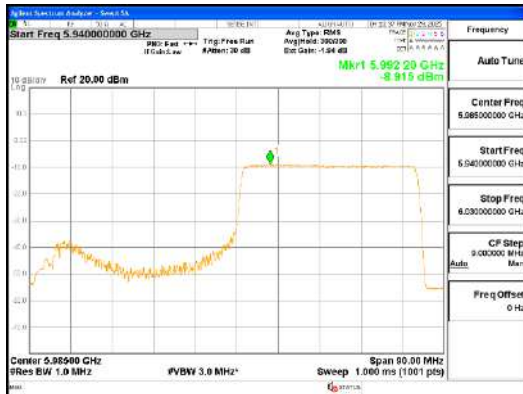




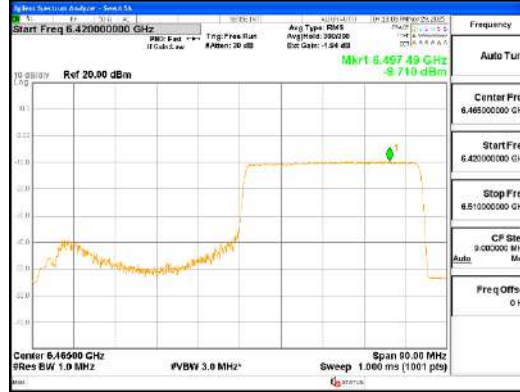
CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (311) / (417) Pages



ANT1_802.11ax_HE80_484T_High_UNII 5



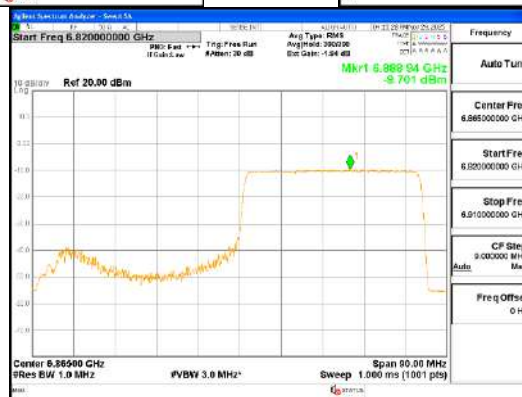
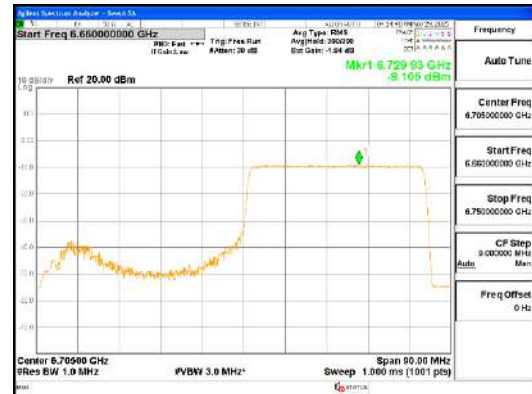
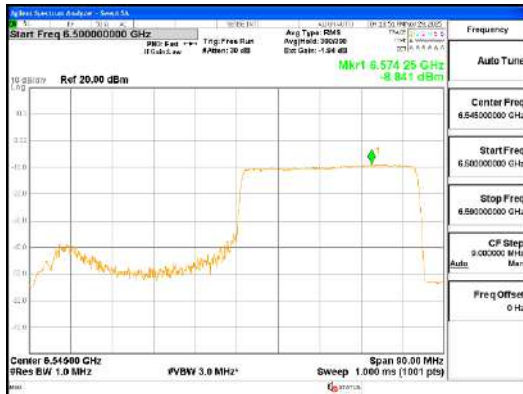
ANT1_802.11ax_HE80_484T_High_UNII 6



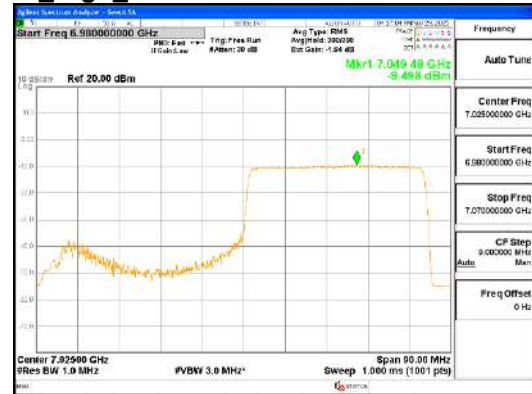
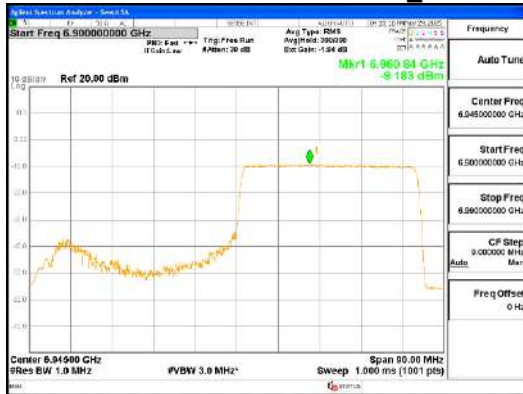
CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (312) / (417) Pages



ANT1_802.11ax_HE80_484T_High_UNII 7



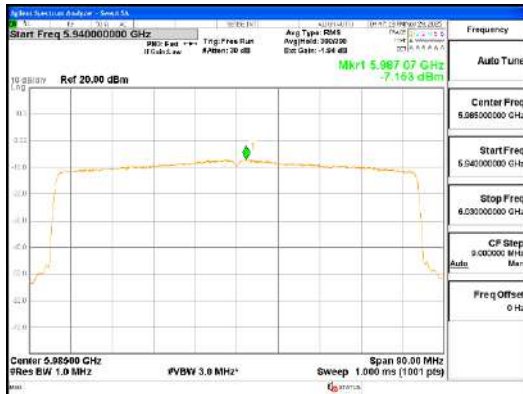
ANT1_802.11ax_HE80_484T_High_UNII 8



CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (313) / (417) Pages



ANT0_802.11ax_HE80_996T_UNII 5



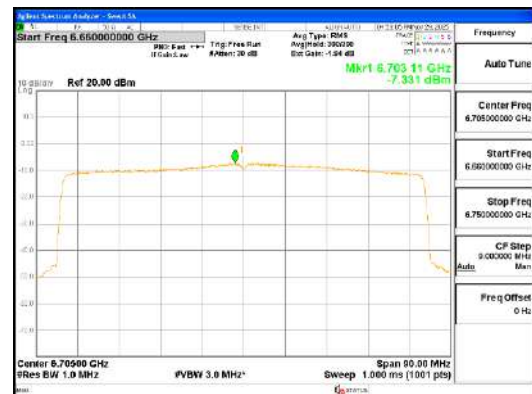
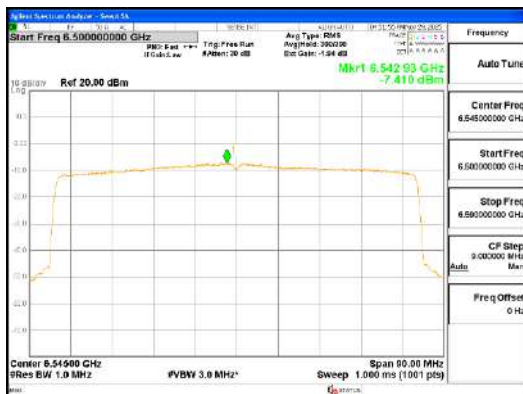
ANT0_802.11ax_HE80_996T_UNII 6



CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (314) / (417) Pages



ANT0_802.11ax_HE80_996T_UNII 7



ANT0_802.11ax_HE80_996T_UNII 8



CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (315) / (417) Pages



ANT1_802.11ax_HE80_996T_UNII 5



ANT1_802.11ax_HE80_996T_UNII 6



CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (316) / (417) Pages



ANT1_802.11ax_HE80_996T_UNII 7



ANT1_802.11ax_HE80_996T_UNII 8

**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (317) / (417) Pages

4.4 In-Band Emissions

Test Procedures

KDB 987594 – Section J

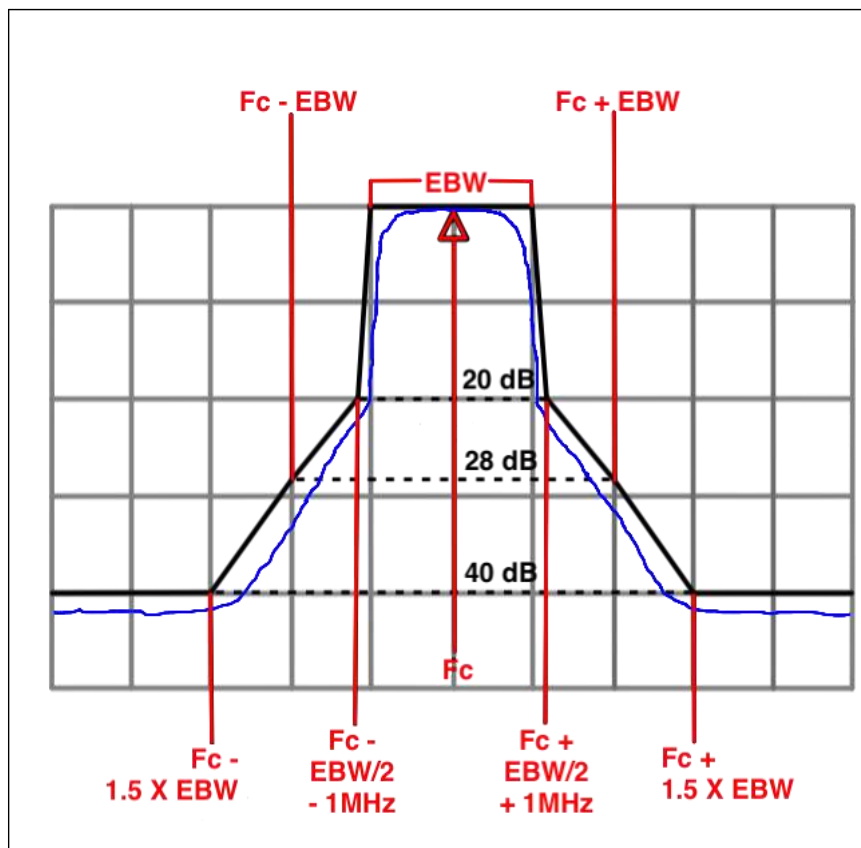
Test Settings:

1. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
2. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
3. Clear trace.
4. Trace average at least 100 traces in power averaging (rms) mode.
5. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

Limit :

The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:

- Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
- Suppressed by 28 dB at one channel bandwidth from the channel center.
- Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.



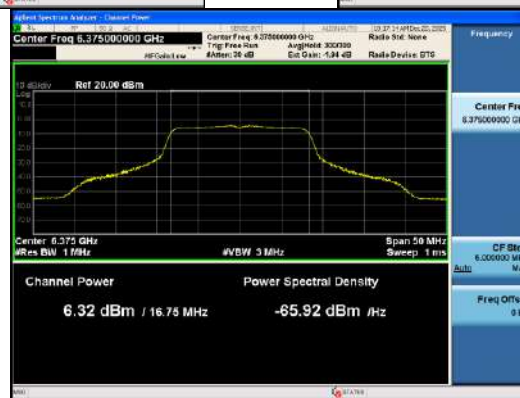
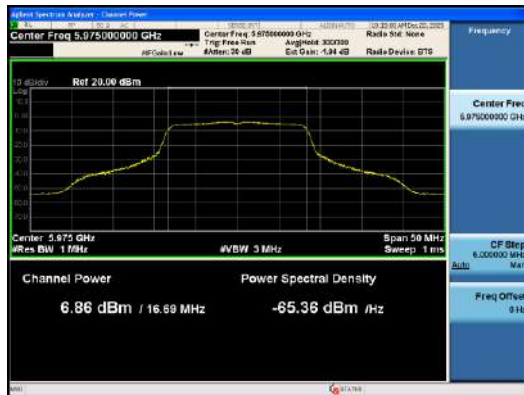
See next pages for actual measured spectrum plots.



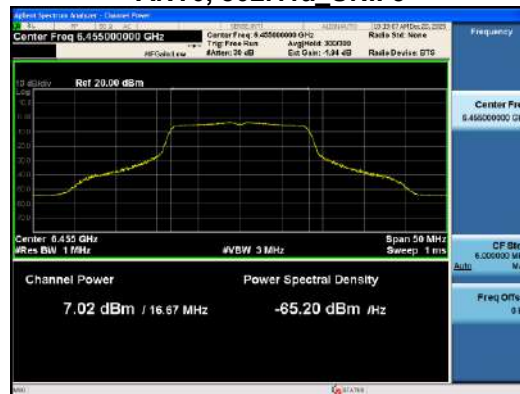
CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (319) / (417) Pages



ANT0, 802.11a_UNII 5



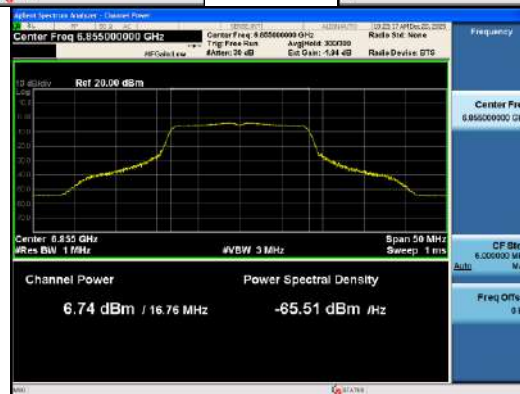
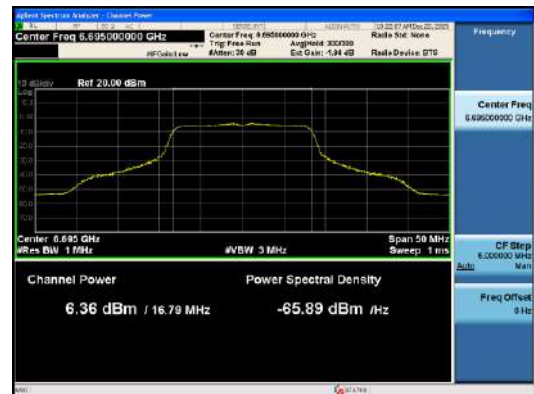
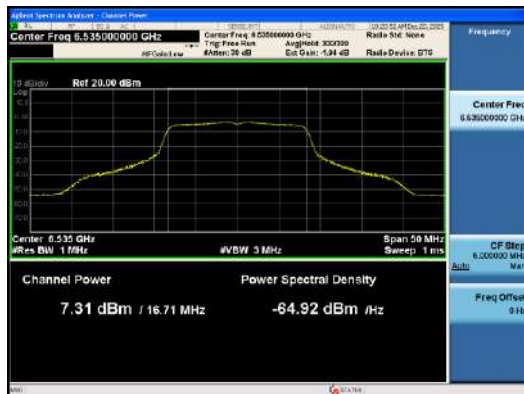
ANT0, 802.11a_UNII 6



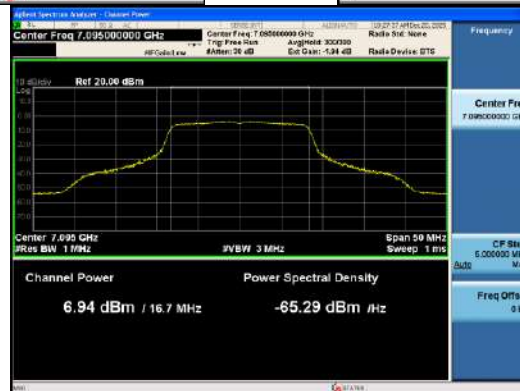
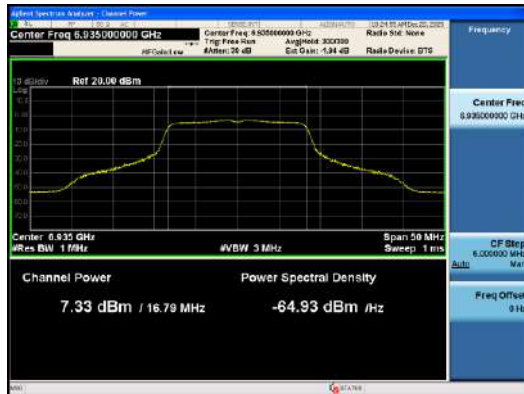
CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (320) / (417) Pages



ANT0, 802.11a_UNII 7



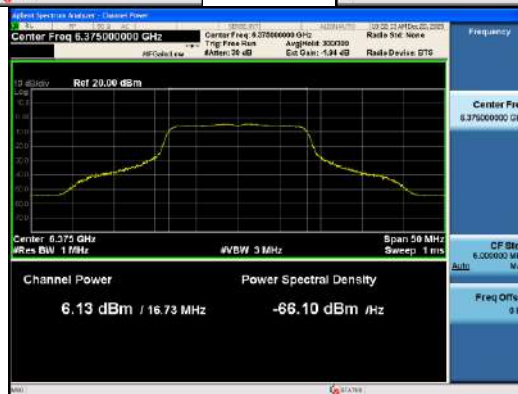
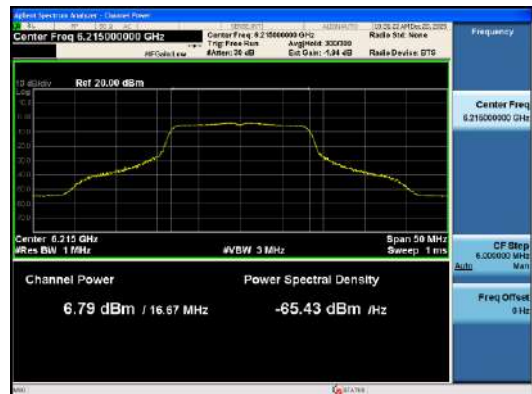
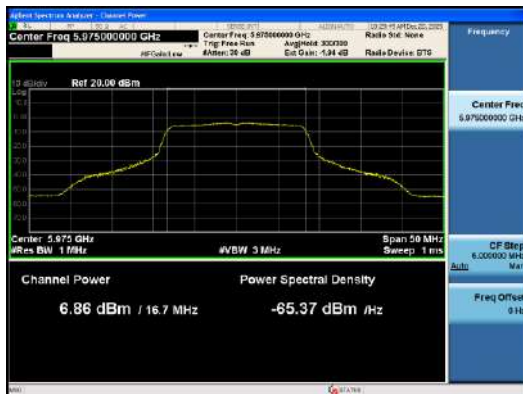
ANT0, 802.11a_UNII 8



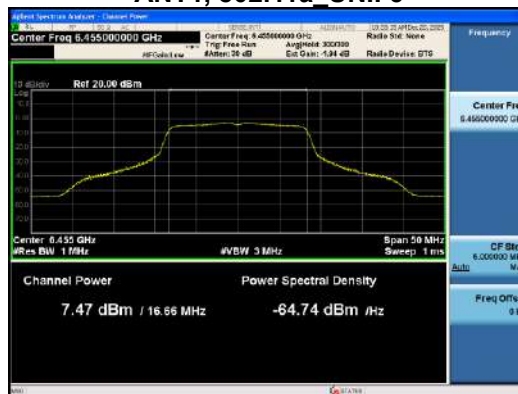
CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (321) / (417) Pages



ANT1, 802.11a_UNII 5



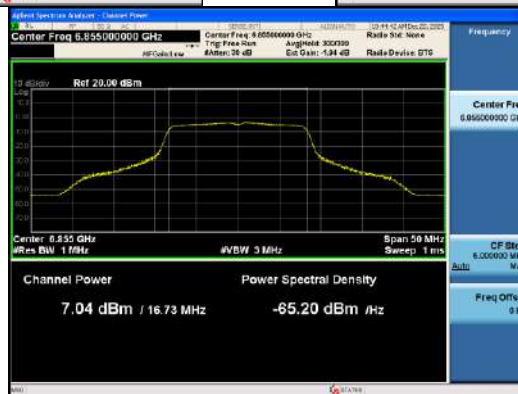
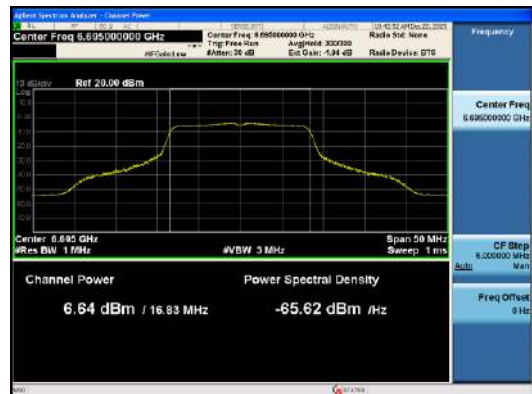
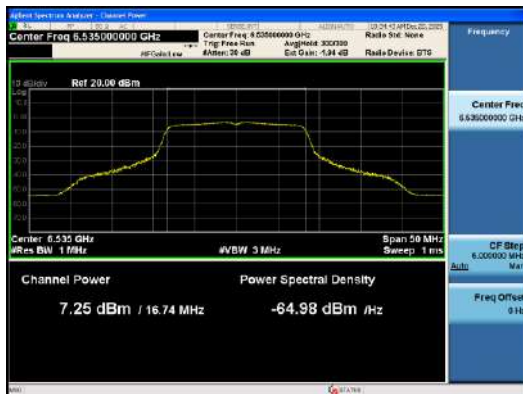
ANT1, 802.11a_UNII 6



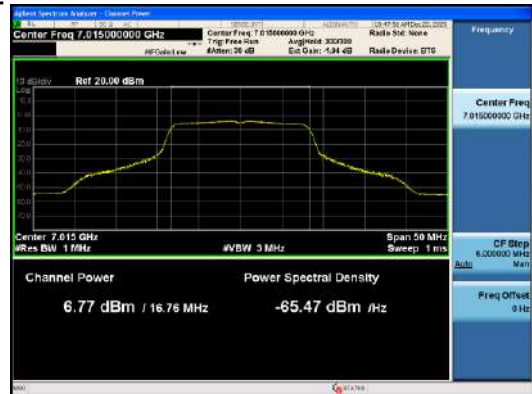
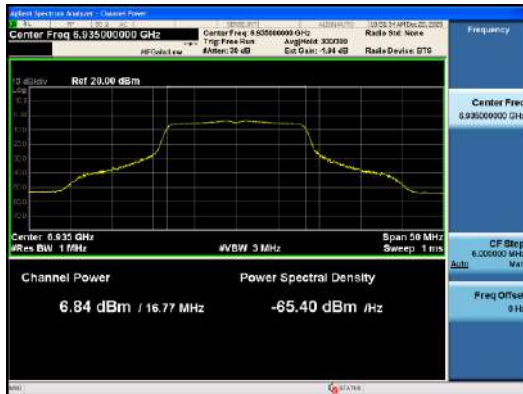
CTK Co., Ltd.

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

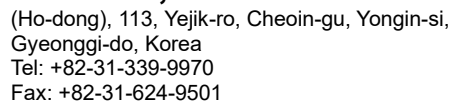
REPORT No.:
CTK-2026-00064
Page (322) / (417) Pages



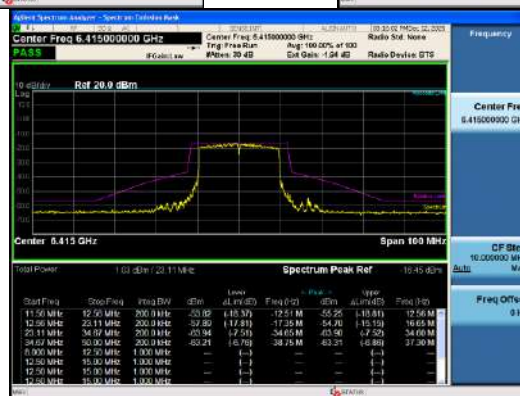
ANT1, 802.11a_UNII 7



ANT1, 802.11a_UNII 8



Page (323) / (417) Pages

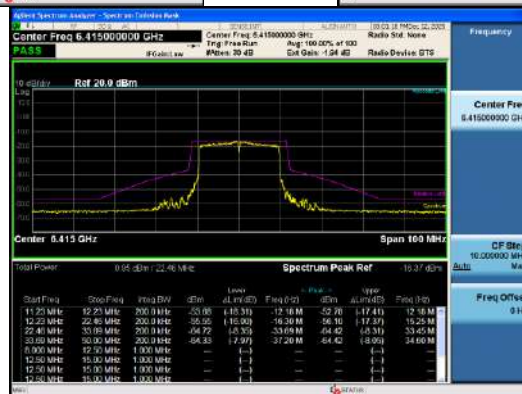
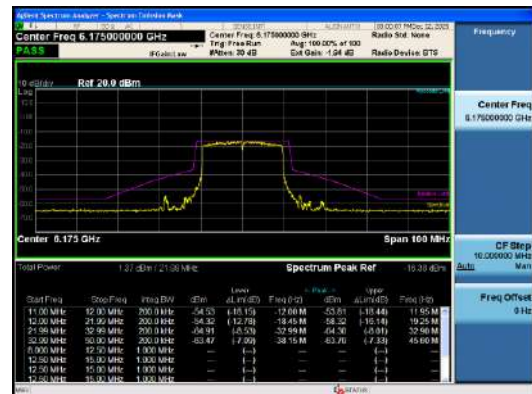
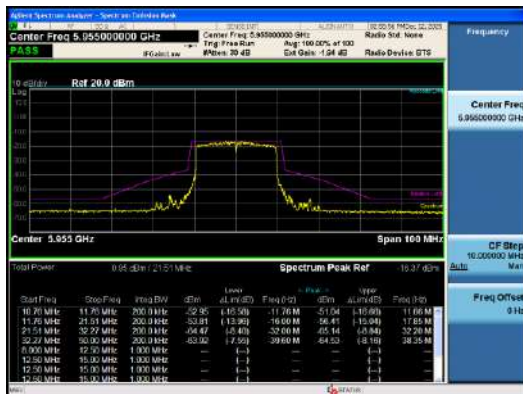




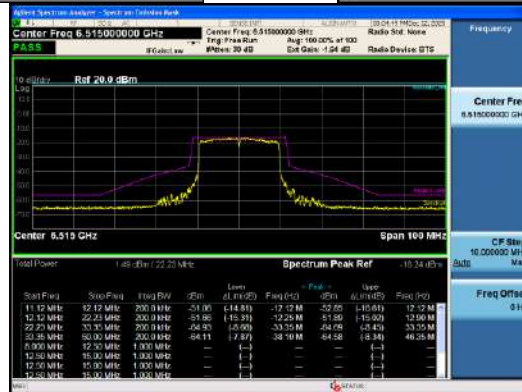
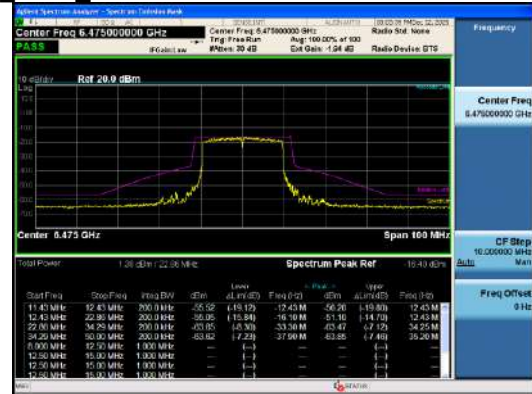
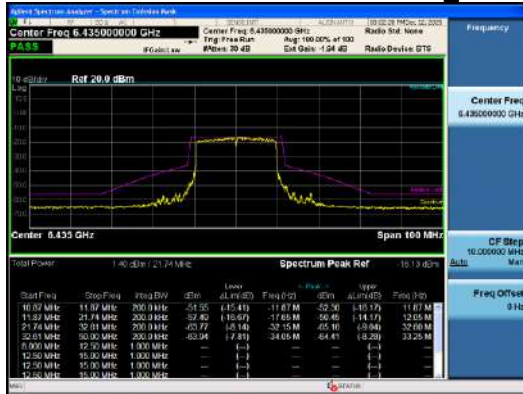
CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (325) / (417) Pages



ANT1_802.11ax_HE20_242T_UNII 5



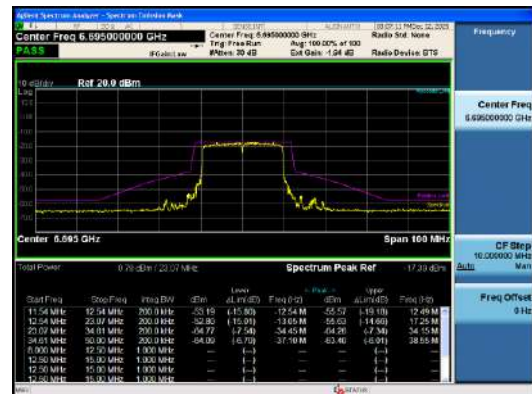
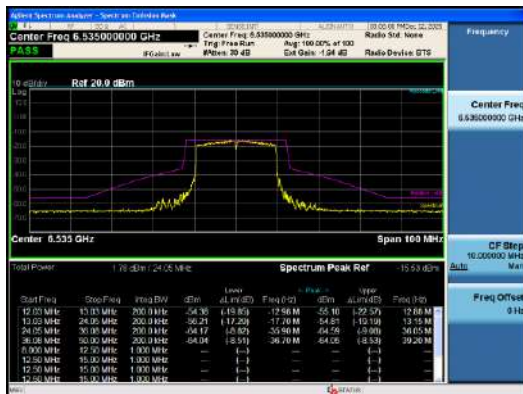
ANT1_802.11ax_HE20_242T_UNII 6



CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (326) / (417) Pages

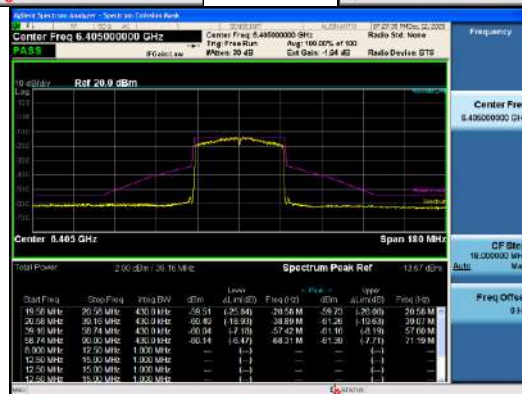
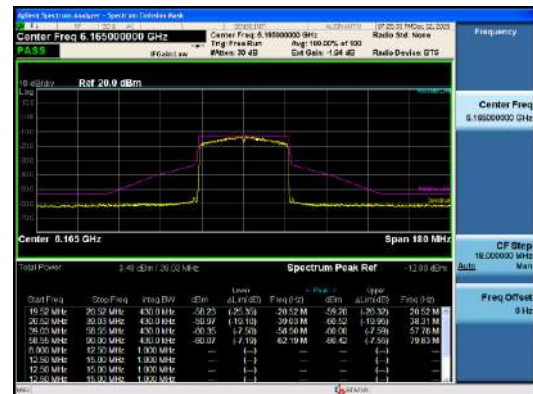
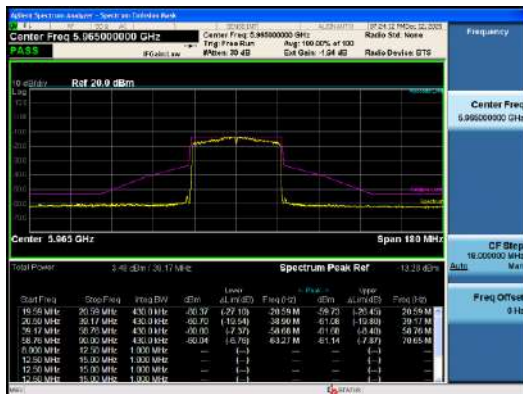




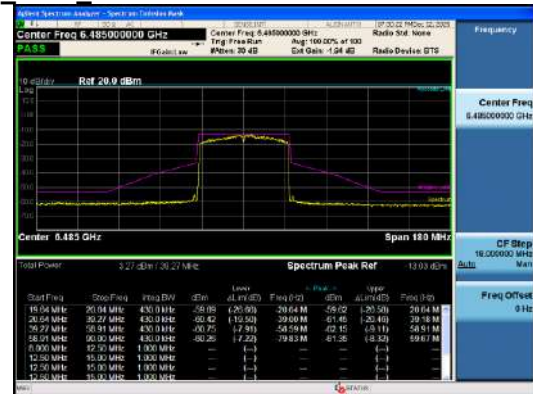
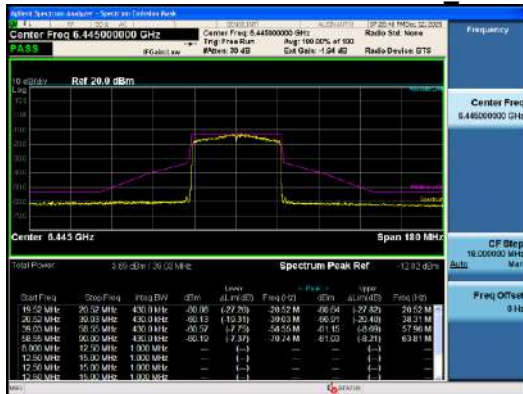
CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (327) / (417) Pages



ANTO_802.11ax_HE40_484T_UNII 5



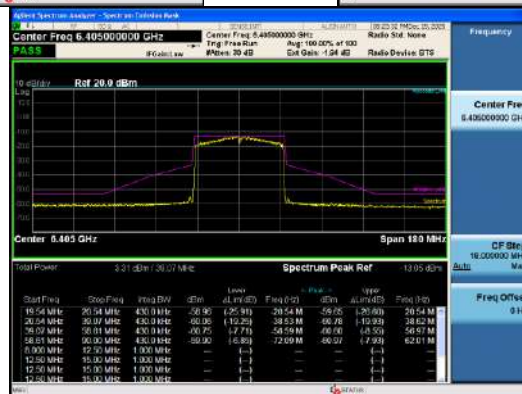
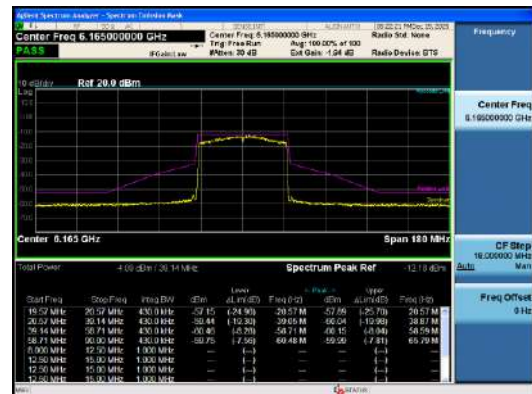
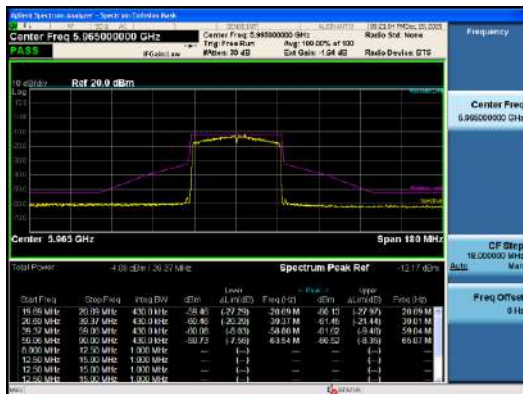
ANTO_802.11ax_HE40_484T_UNII 6



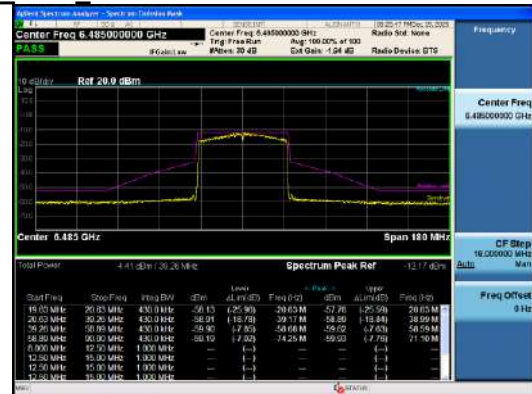
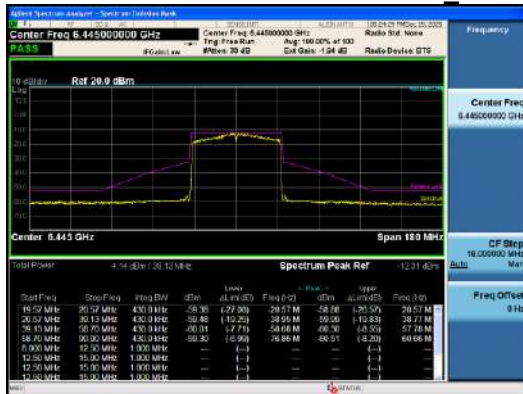
CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (329) / (417) Pages



ANT1_802.11ax_HE40_484T_UNII 5



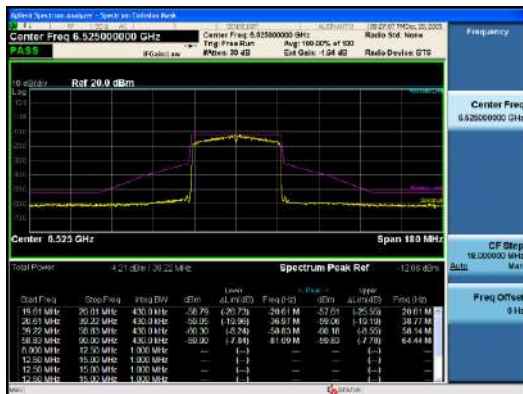
ANT1_802.11ax_HE40_484T_UNII 6



CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (330) / (417) Pages

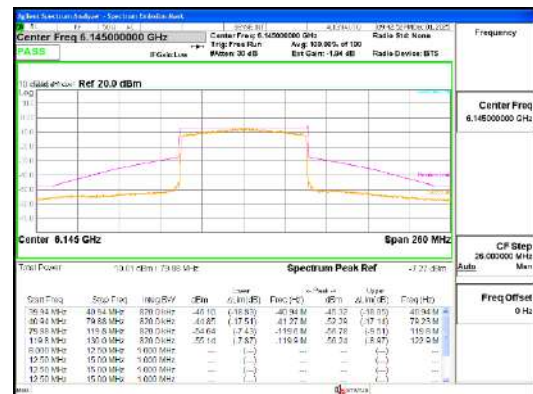
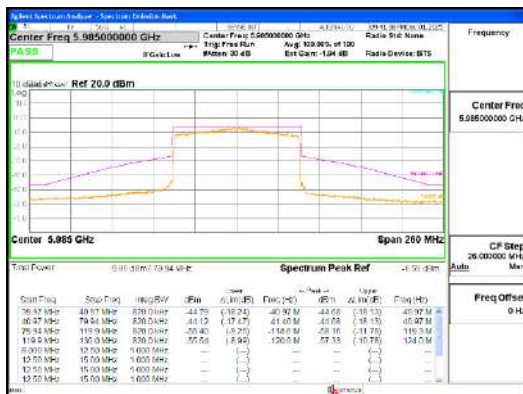




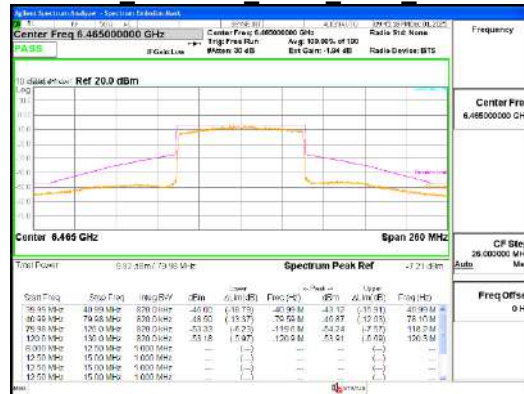
CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (333) / (417) Pages



ANT1_802.11ax_HE80_996T_UNII 5



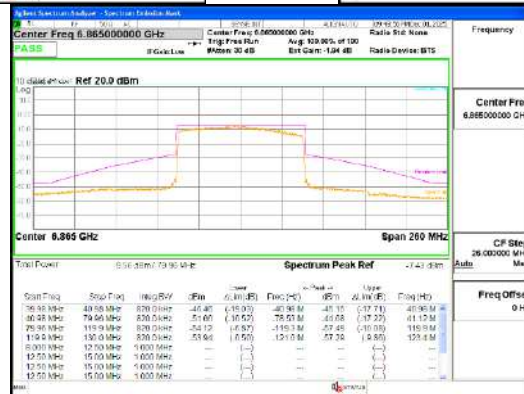
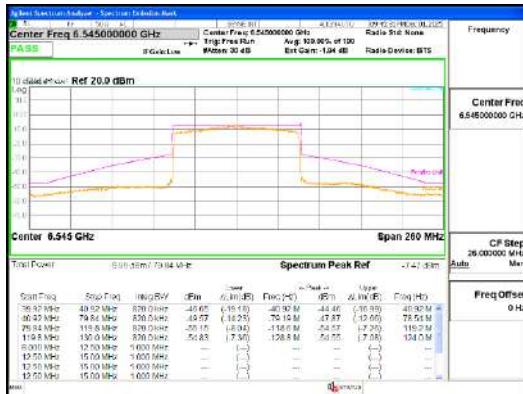
ANT1_802.11ax_HE80_996T_UNII 6



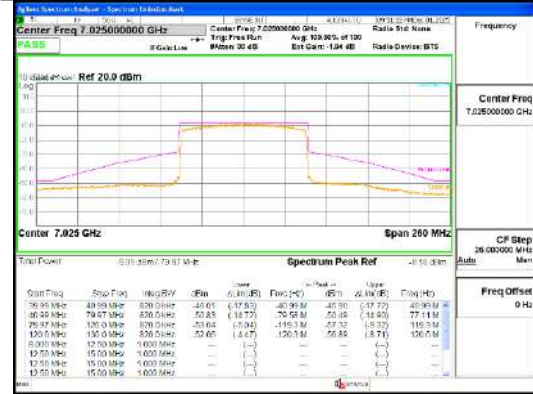
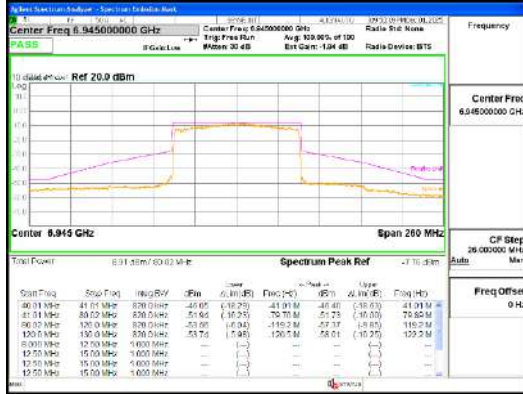
CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (334) / (417) Pages



ANT1_802.11ax_HE80_996T_UNII 7



ANT1_802.11ax_HE80_996T_UNII 8

**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (335) / (417) Pages

4.5 Frequency Stability

Test Procedures

KDB 789033 – Section A.3

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -20 °C and +50 °C(Declaration by the Manufacturer). The temperature was incremented by 10 °C intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

Data for the worst case channel is shown below.

Voltage [VDC]	Temperature [°C]	Measured Frequency Error [MHz]						
		Test Frequency [MHz]						
		5 955	6 175	6 415	6 435	6 475	6 515	6 535
5.00	-20	53.920	55.430	56.665	55.415	54.545	54.055	53.460
5.00	-10	39.380	40.695	41.120	39.170	37.460	36.420	35.440
5.00	0	20.540	20.755	20.090	17.470	15.315	14.000	13.055
5.00	10	-0.985	-1.525	-3.240	-5.785	-8.180	-9.300	-10.475
5.00	20(Ref)	-17.850	-20.830	-23.965	-26.685	-28.920	-30.430	-31.555
5.00	30	-36.155	-37.680	-39.755	-40.715	-41.550	-42.205	-42.560
5.00	40	-39.855	-41.105	-42.805	-42.425	-42.175	-41.940	-41.590
5.00	50	-27.865	-28.180	-28.330	-26.140	-24.070	-22.535	-21.130
4.25	20(Ref)	-28.130	-29.510	-31.415	-33.115	-34.560	-35.395	-36.075
5.75	20(Ref)	-27.435	-28.950	-31.265	-33.060	-34.530	-35.420	-36.220

**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (336) / (417) Pages

Voltage [VDC]	Temperature [°C]	Measured Frequency Error [MHz]					
		Test Frequency [MHz]					
		6 695	6 855	6 875	6 995	7 095	7 115
5.00	-20	54.900	56.155	55.455	54.315	52.460	49.630
5.00	-10	36.015	37.495	37.955	38.610	38.765	38.220
5.00	0	13.055	13.880	14.430	14.470	14.145	13.380
5.00	10	-10.935	-10.770	-10.410	-10.625	-11.420	-12.270
5.00	20(Ref)	-32.715	-33.745	-33.810	-34.535	-33.160	-34.415
5.00	30	-43.750	-44.900	-44.970	-45.780	-46.480	-46.880
5.00	40	-42.590	-44.050	-44.045	-44.495	-44.700	-44.495
5.00	50	-21.365	-22.360	-22.150	-20.315	-11.210	-11.900
4.25	20(Ref)	-37.200	-37.960	-37.830	-38.660	-39.555	-40.070
5.75	20(Ref)	-37.365	-38.300	-40.105	-39.195	-40.090	-40.700

Note :

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature range as tested.

**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (337) / (417) Pages

4.6 Contention Based Protocol

Test Procedures

KDB 987594 – Section I

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency.
The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold).
Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated.
If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Limit :

- Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower.
Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.



CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (338) / (417) Pages

Test Data :

Test mode : UNII-5

Contention Based Protocol Measurement

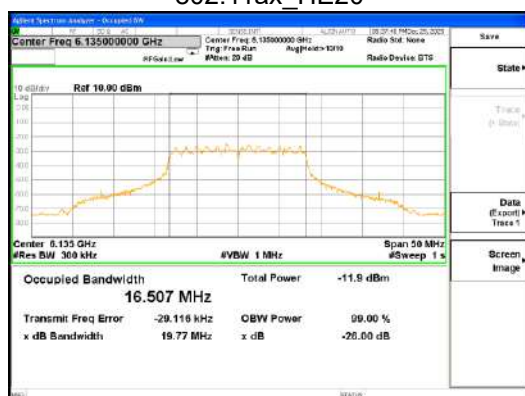
Test Mode	Channel BW (MHz)	Frequency (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
			Frequency (MHz)	Power (dBm)				
802.11ax	20	6 135	6 135	-63.42	-0.56	-62.86	-62.00	OFF
				-67.52	-0.56	-66.96	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
	80	6 110	6 110	-63.22	-0.56	-62.66	-62.00	OFF
				-67.26	-0.56	-66.70	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
		6 145	6 145	-63.24	-0.56	-62.68	-62.00	OFF
				-67.62	-0.56	-67.06	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
		6 180	6 180	-63.25	-0.56	-62.69	-62.00	OFF
				-67.80	-0.56	-67.24	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON

Contention Based Protocol Measurement Detection Probability

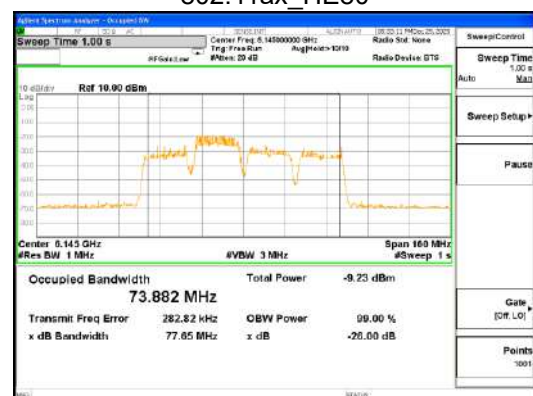
Test Mode	Channel BW (MHz)	Frequency (MHz)	Injected Signal (AWGN) (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6 135	6 135	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
	80	6 145	6 110	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
			6 145	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
			6 180	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass

See next pages for actual measured spectrum plots.

802.11ax_HE20



802.11ax_HE80





CTK Co., Ltd.

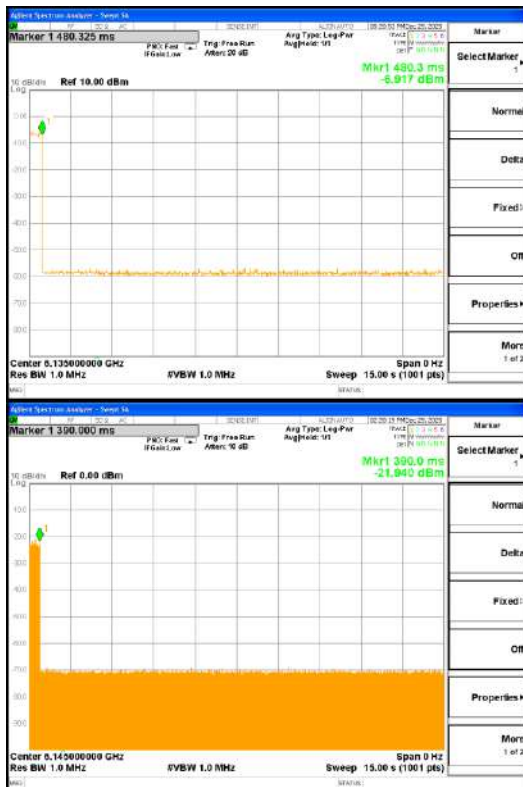
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-00064
Page (339) / (417) Pages

Plots of Injected signal (AWGN) level



Plots of EUT ceased transmission in the time domain





CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (340) / (417) Pages

Test mode : UNII-6

Contention Based Protocol Measurement

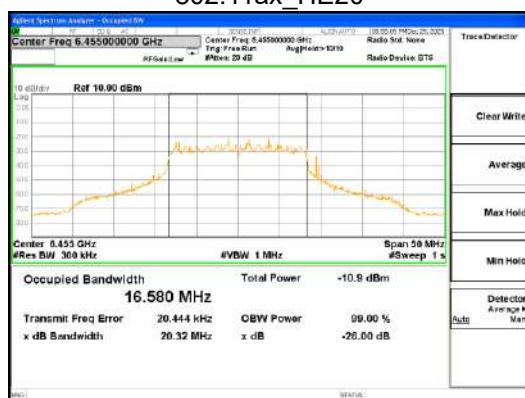
Test Mode	Chan nel BW (MHz)	Freq uency (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
			Frequency (MHz)	Power (dBm)				
802.11ax	20	6 455	6 455	-63.45	-0.56	-62.89	-62.00	OFF
				-68.22	-0.56	-67.66	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
	80	6 430	6 430	-64.07	-0.56	-63.51	-62.00	OFF
				-68.22	-0.56	-67.66	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
		6 465	6 465	-64.25	-0.56	-63.69	-62.00	OFF
				-68.42	-0.56	-67.86	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
		6 500	6 500	-64.25	-0.56	-63.69	-62.00	OFF
				-68.45	-0.56	-67.89	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON

Contention Based Protocol Measurement Detection Probability

Test Mode	Chan nel BW (MHz)	Freq uency (MHz)	Injected Signal (AWGN) (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6 455	6 455	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
	80	6 465	6 430	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
			6 465	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
			6 500	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass

See next pages for actual measured spectrum plots.

802.11ax_HE20



802.11ax_HE80





CTK Co., Ltd.

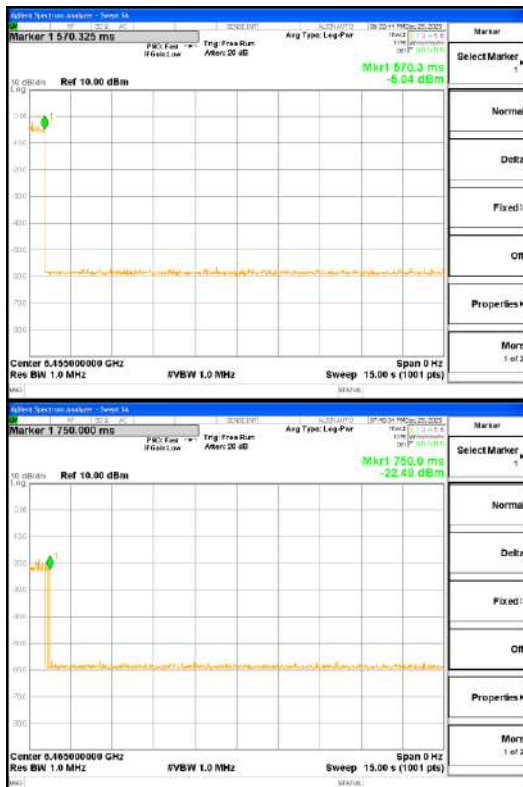
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-00064
Page (341) / (417) Pages

Plots of Injected signal (AWGN) level



Plots of EUT ceased transmission in the time domain





CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (342) / (417) Pages

Test mode : UNII-7

Contention Based Protocol Measurement

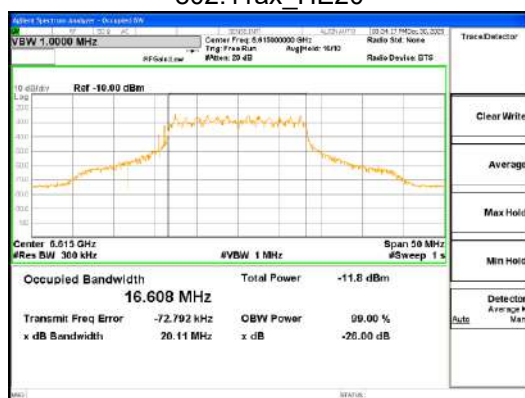
Test Mode	Chan nel BW (MHz)	Freq uency (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
			Frequency (MHz)	Power (dBm)				
802.11ax	20	6 615	6 615	-64.22	-0.56	-63.66	-62.00	OFF
				-67.89	-0.56	-67.33	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
	80	6 590	6 590	-64.35	-0.56	-63.79	-62.00	OFF
				-67.72	-0.56	-67.16	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
		6 625	6 625	-63.90	-0.56	-63.34	-62.00	OFF
				-67.22	-0.56	-66.66	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
		6 660	6 660	-63.22	-0.56	-62.66	-62.00	OFF
				-67.43	-0.56	-66.87	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON

Contention Based Protocol Measurement Detection Probability

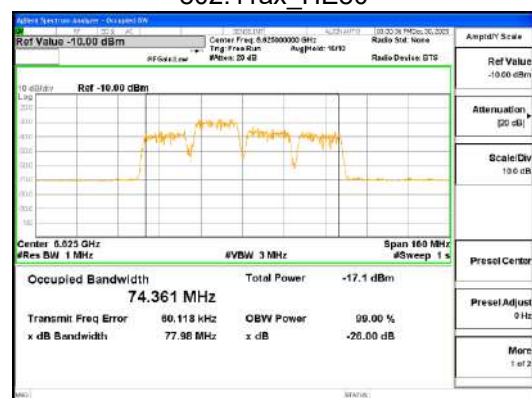
Test Mode	Chan nel BW (MHz)	Freq uency (MHz)	Injected Signal (AWGN) (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6 615	6 615	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
	80	6 625	6 590	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
			6 625	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
			6 660	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass

See next pages for actual measured spectrum plots.

802.11ax_HE20



802.11ax_HE80





CTK Co., Ltd.

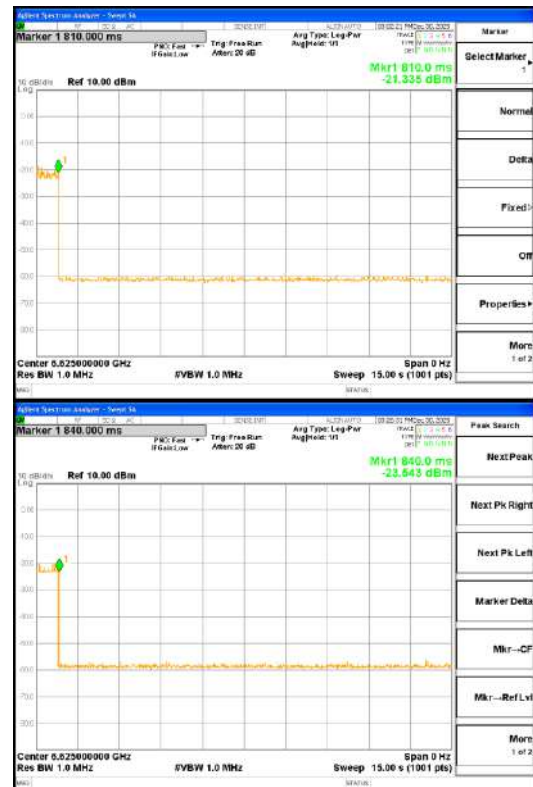
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-00064
Page (343) / (417) Pages

Plots of Injected signal (AWGN) level



Plots of EUT ceased transmission in the time domain





CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (344) / (417) Pages

Test mode : UNII-8

Contention Based Protocol Measurement

Test Mode	Chan nel BW (MHz)	Freq uency (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
			Frequency (MHz)	Power (dBm)				
802.11ax	20	6 935	6 935	-65.25	-0.56	-64.69	-62.00	OFF
				-68.22	-0.56	-67.66	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
	80	6 910	6 910	-65.35	-0.56	-64.79	-62.00	OFF
				-68.24	-0.56	-67.68	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
		6 945	6 945	-65.41	-0.56	-64.85	-62.00	OFF
				-68.87	-0.56	-68.31	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON
		6 980	6 980	-65.74	-0.56	-65.18	-62.00	OFF
				-68.55	-0.56	-67.99	-62.00	Minimal
				-82.56	-0.56	-82.00	-62.00	ON

Contention Based Protocol Measurement Detection Probability

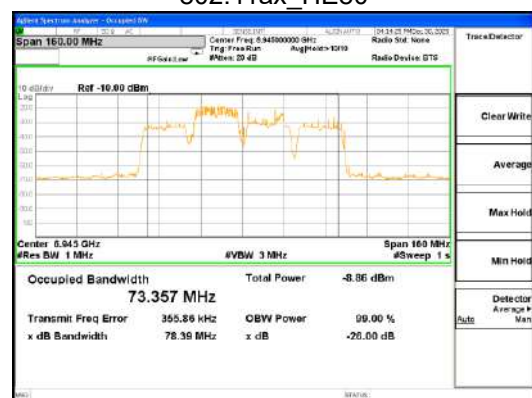
Test Mode	Chan nel BW (MHz)	Freq uency (MHz)	Injected Signal (AWGN) (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6 935	6 935	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
	80	6 945	6 910	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
			6 945	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass
			6 980	v	v	v	v	v	v	v	v	v	v	100 %	100 %	Pass

See next pages for actual measured spectrum plots.

802.11ax_HE20



802.11ax_HE80





CTK Co., Ltd.

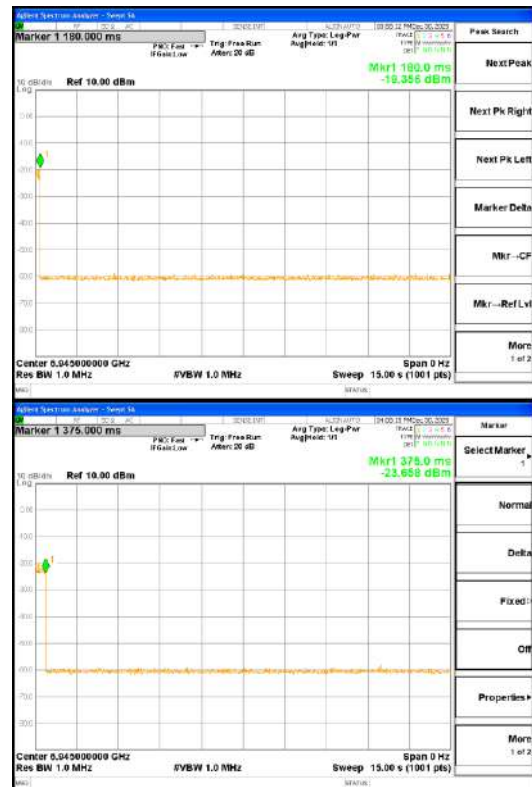
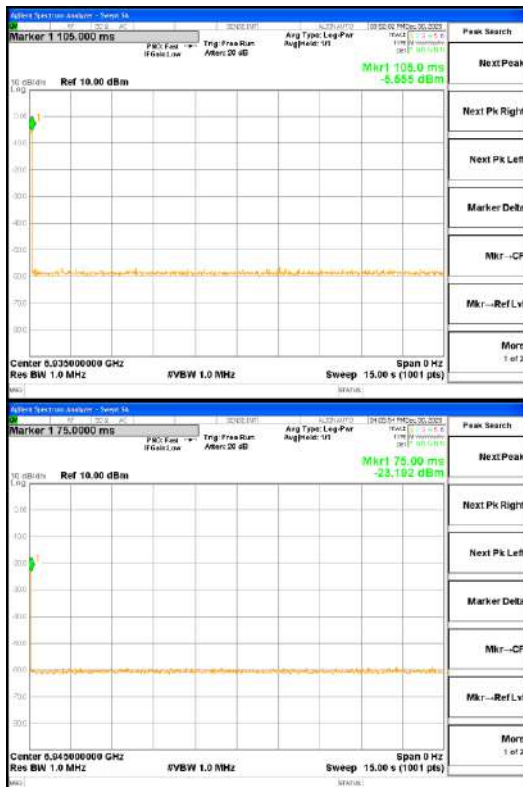
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-00064
Page (345) / (417) Pages

Plots of Injected signal (AWGN) level



Plots of EUT ceased transmission in the time domain



**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (346) / (417) Pages

4.7 Unwanted Emissions

Test Location

- ☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)
☒ 3 m SAC (test distance : 3 m)

Test Procedures

KDB 987594 - Section G
KDB 789033 - Section G
ANSI C63.10-2020 – Section 12.7

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 3 m distance from the EUT. The center of the Loop Test Antenna is 1 m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3 m away from the EUT. Test Antenna height is carried from 1 m to 4 m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = 9 kHz to 1 GHz

- a) RBW = 100 kHz for $f < 1$ GHz, 9 kHz for $f < 30$ MHz
b) VBW $\geq$ RBW
c) Detector = CISPR Quasi-peak
d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz to 40 GHz

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ RBW
c) Detector = peak
d) Sweep time = auto
e) Trace mode = max hold

- Average (duty cycle ≥ 98 %)

Frequency Range = 1 GHz to 40 GHz

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ RBW
c) Detector = RMS
d) Sweep time = auto
e) Averaging type = power (i.e., RMS)
f) Trace mode = average (at least 100 traces)

- Average (duty cycle < 98 %, duty cycle variations are less than ± 2 %)

Frequency Range = 1 GHz to 40 GHz

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ RBW
c) Detector = RMS
d) Sweep time = auto
e) Averaging type = power (i.e., RMS)
f) Trace mode = average (at least 100 traces)

**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (347) / (417) Pages

If power averaging (RMS) mode, then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.

Test Mode	Duty Cycle Factor	Test Mode	Duty Cycle Factor
802.11a	0.14 dB	802.11ax_HE40_242T	0.28 dB
802.11ax_HE20_26T	0.22 dB	802.11ax_HE40_484T	0.28 dB
802.11ax_HE20_52T	0.23 dB	802.11ax_HE80_26T	0.21 dB
802.11ax_HE20_106T	0.25 dB	802.11ax_HE80_52T	0.23 dB
802.11ax_HE20_242T	0.29 dB	802.11ax_HE80_106T	0.24 dB
802.11ax_HE40_26T	0.21 dB	802.11ax_HE80_242T	0.28 dB
802.11ax_HE40_52T	0.23 dB	802.11ax_HE80_484T	0.28 dB
802.11ax_HE40_106T	0.24 dB	802.11ax_HE80_996T	0.31 dB

Limit :**- 15.407, KDB 987594**

* E.I.R.P -27 dBm/MHz

$E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ m

4. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209 and RSS-GEN § 8.9

- 15.209(a) and RSS-GEN § 8.9

Frequency [MHz]	Magnetic Field Strength [uA/m]	Field Strength [uV/m]	Field Strength [dBuV/m]	Deasurement Distance [meters]
0.009-0.490	6.37/F (F in kHz)	2400/F(kHz)	48.5-13.8	300
0.490-1.705	63.7/F (F in kHz)	24000/F(kHz)	33.8-23	30
1.705-30	0.08	30	29.5	30
30-88	-	100**	40	3
88-216	-	150**	43.5	3
216-960	-	200**	46	3
Above 960	-	500	54	3

** Except as provided in 15.209(g). Fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

** Except as provided in RSS-GEN § 8.9. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (348) / (417) Pages

FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

Table 1. Restricted Frequency Bands (FCC)

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
¹ 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475-156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	² Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions.

The provisions in Section 15.35 apply to these measurements.

According to RSS-GEN §8.10 Unwanted emissions that fall into restricted frequency bands listed in table 2 shall comply with the limits specified in table 2.

Table 2. Restricted Frequency Bands (ISED)

MHz	MHz	MHz	MHz	MHz	GHz
0.090-0.110	8.291-8.294	25.5-25.67	322-335.4	2655-2900	10.6-12.7
0.495-0.505	8.362-8.366	37.5-38.25	399.9-410	3260 – 3267	13.25-13.4
2.1735-2.1905	8.37625-8.38675	73-74.6	608-614	3332-3339	14.47-14.5
3.020-3.026	8.41425-8.41475	74.8-75.2	960-1427	3345.8-3358	15.35-16.2
4.125-4.128	12.29-12.293	108 – 138	1435-1626.5	3500-4400	10.6-12.7
4.17725-4.17775	12.51975-12.52025	149.9-150.05	1645.5-1646.5	4500-5150	22.01-23.12
4.20725-4.20775	12.57675-12.57725	156.52475-156.52525	1660-1710	5350-5460	23.6-24.0
5.677-5.683	13.36-13.41	156.7-156.9	1718.8-1722.2	7250-7750	31.2-31.8
6.215-6.218	16.42-16.423	162.0125-167.17	2200-2300	8025 – 8500	36.43-36.5
6.26775-6.26825	16.69475-16.69525	167.72-173.2	2310-2390	9000-9200	Above 38.6
6.31175-6.31225	16.80425-16.80475	240 – 285	2483.5-2500	9300-9500	

Note 1: Certain frequency bands listed in table 2 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

Note :

- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3 m (AV) and 74 dBuV/m@3 m (PK)

**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (349) / (417) Pages

Test Mode :

We have done all test mode.

The worst-case antenna configuration and Test mode are determined to be as follows.

802.11a mode : ANT0, ANT1

802.11ax mode : ANT0 + ANT1 (MIMO)

So the results are only attached worst cases.

802.11ax Test RU Index for Tones

Mode	Bandwidth [MHz]	Frequency [MHz]	Tones	Test RU Index	
				Band Edge	Spurious Emission
802.11ax	20	5 955	26T	0	0
			52T	37	-
			106T	53	-
			242T	61	61
		6 175	26T	-	0
			242T	-	61
		6 415	26T	-	0
			242T	-	61
		6 435	26T	-	0
			242T	-	61
		6 475	26T	-	0
			242T	-	61
		6 515	26T	-	0
			242T	-	61
		6 535	26T	-	0
			242T	-	61
		6 695	26T	-	0
			242T	-	61
		6 855	26T	-	0
			242T	-	61
		6 875	26T	-	0
			242T	-	61
		6 995	26T	-	0
			242T	-	61
		7 095	26T	8	0
			52T	40	-
			106T	54	-
			242T	61	61
		7 115	26T	8	0
			52T	40	-
			106T	54	-
			242T	61	61



CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (350) / (417) Pages

Mode	Bandwidth [MHz]	Frequency [MHz]	Tones	Test RU Index	
				Band Edge	Spurious Emission
802.11ax	40	5 965	26T	0	17
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65
		6 165	26T	-	17
			484T	-	65
		6 405	26T	-	17
			484T	-	65
		6 445	26T	-	17
			484T	-	65
		6 485	26T	-	17
			484T	-	65
		6 525	26T	-	17
			484T	-	65
		6 685	26T	-	17
			484T	-	65
		6 845	26T	-	17
			484T	-	65
		6 885	26T	-	17
			484T	-	65
		7 005	26T	-	17
			484T	-	65
		7 085	26T	17	17
			52T	44	-
			106T	56	-
			242T	62	-
			484T	65	65

**CTK Co., Ltd.**

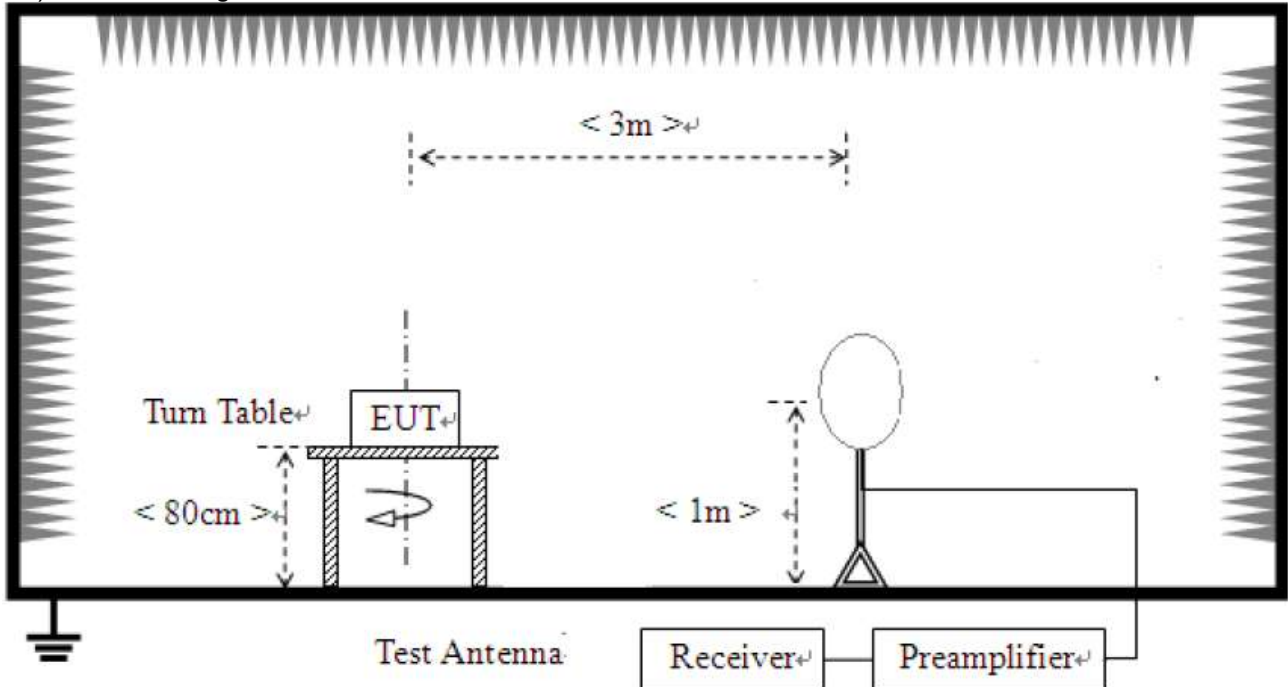
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-00064
Page (351) / (417) Pages

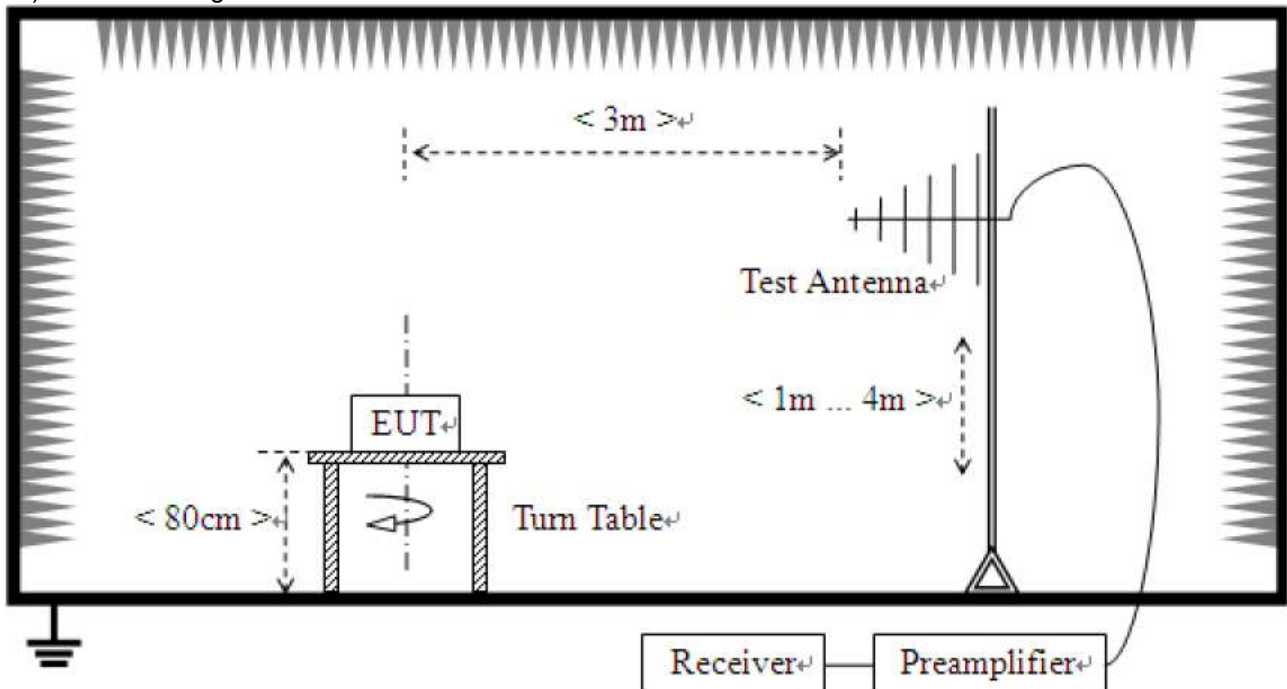
Mode	Bandwidth [MHz]	Frequency [MHz]	Tones	Test RU Index	
				Band Edge	Spurious Emission
802.11ax	80	5985	26T	0	18
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	-
			996T	67	67
		6145	26T	-	18
			996T	-	67
		6385	26T	-	18
			996T	-	67
		6465	26T	-	18
			996T	-	67
		6545	26T	-	18
			996T	-	67
		6705	26T	-	18
			996T	-	67
		6865	26T	-	18
			996T	-	67
		6945	26T	-	18
			996T	-	67
		7025	26T	36	18
			52T	52	-
			106T	60	-
			242T	64	-
			484T	66	-
			996T	67	67

Test Setup :

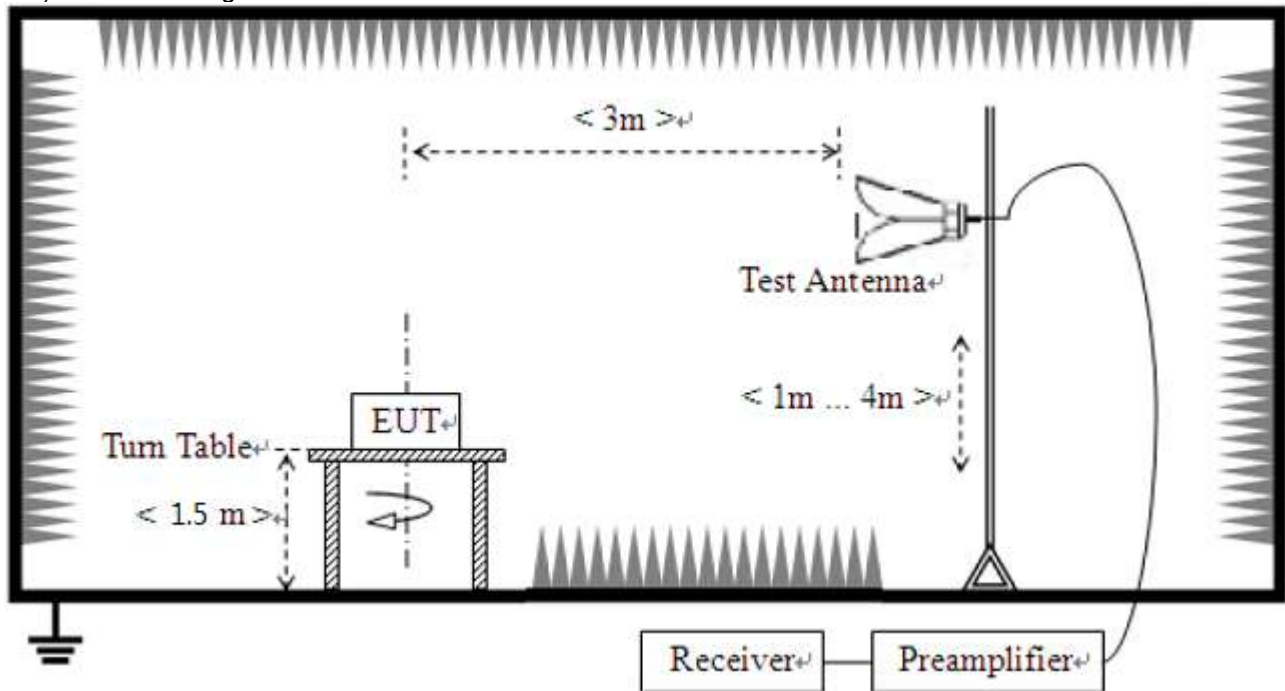
1) For field strength of emissions from 9 kHz to 30 MHz



2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz





CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (354) / (417) Pages

Test Results :

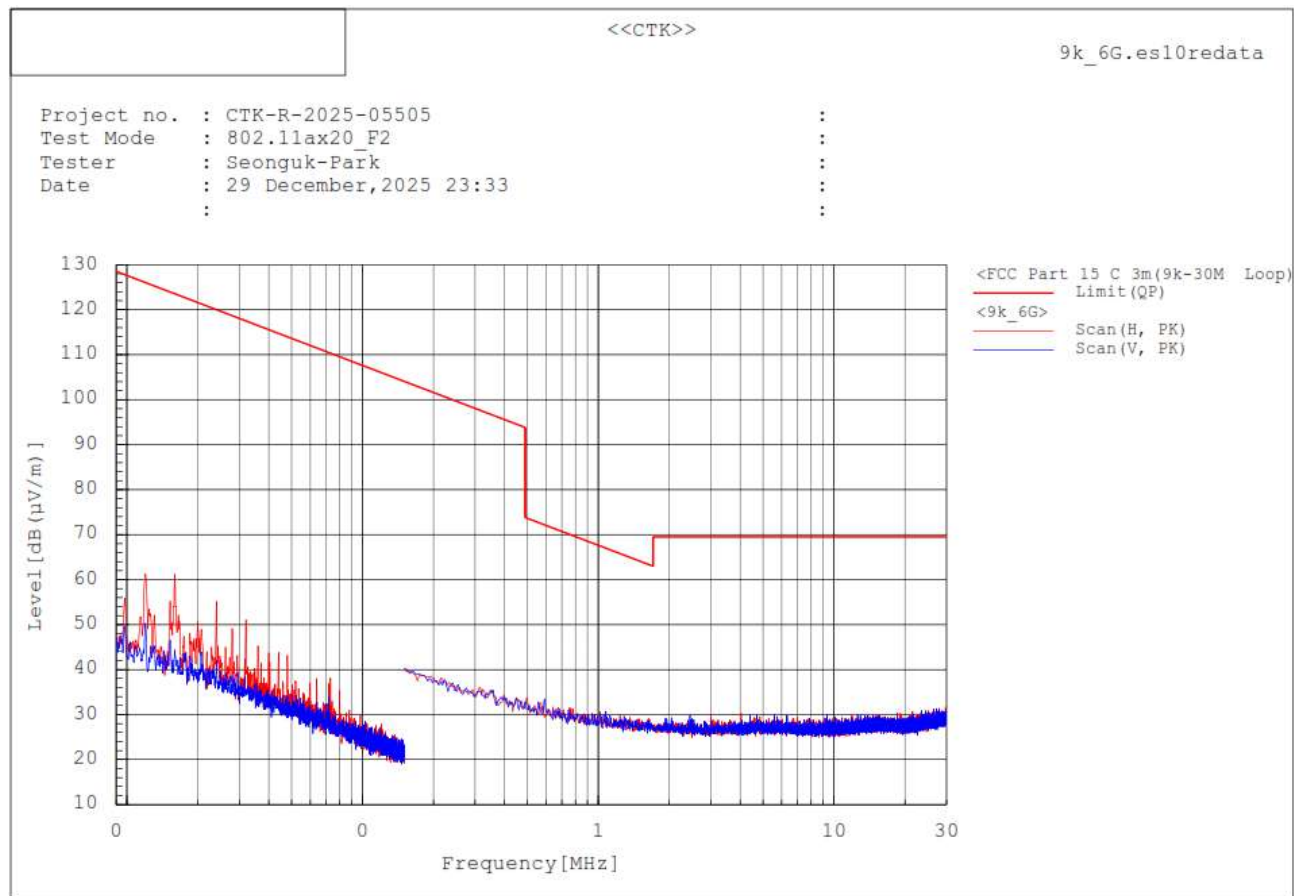
1) 9 kHz to 30 MHz

Test Mode : Transmitter_UNII 5 (Worst Case)

The requirements are:

☒ Complies

Test Data :



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
-----------------	-----	----------------	---------------	------------------	------------------	-------------

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

- Measuring position : The Unwanted emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X,Y axis). The worst emission was found in lie-down position (Z axis) and the worst case was recorded.
- Result = Reading + c.f (Correction factor)
- Correction factor = Antenna factor + Cable loss + 6 dB attenuator
- Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- This data is the Peak (PK) value.



CTK Co., Ltd.

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

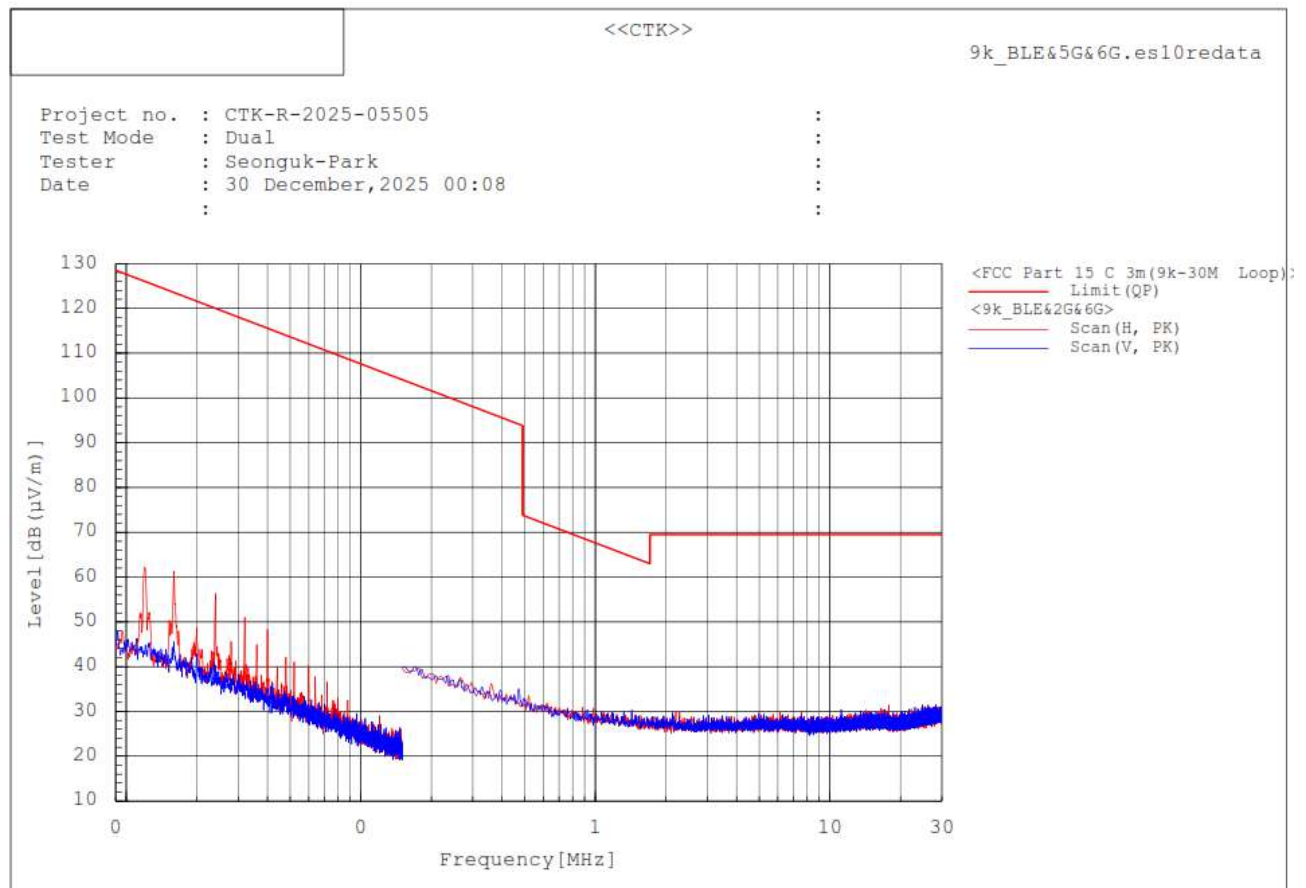
REPORT No.:
CTK-2026-00064
Page (355) / (417) Pages

Test Mode : Transmitter (Simultaneous transmissions DTS + UNII 5)

The requirements are:

☒ Complies

Test Data :



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
-----------------	-----	----------------	---------------	------------------	------------------	-------------

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

1. Measuring position : The Unwanted emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X,Y axis). The worst emission was found in lie-down position (Z axis) and the worst case was recorded.
2. Result = Reading + c.f (Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
4. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
5. This data is the Peak (PK) value.



CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (356) / (417) Pages

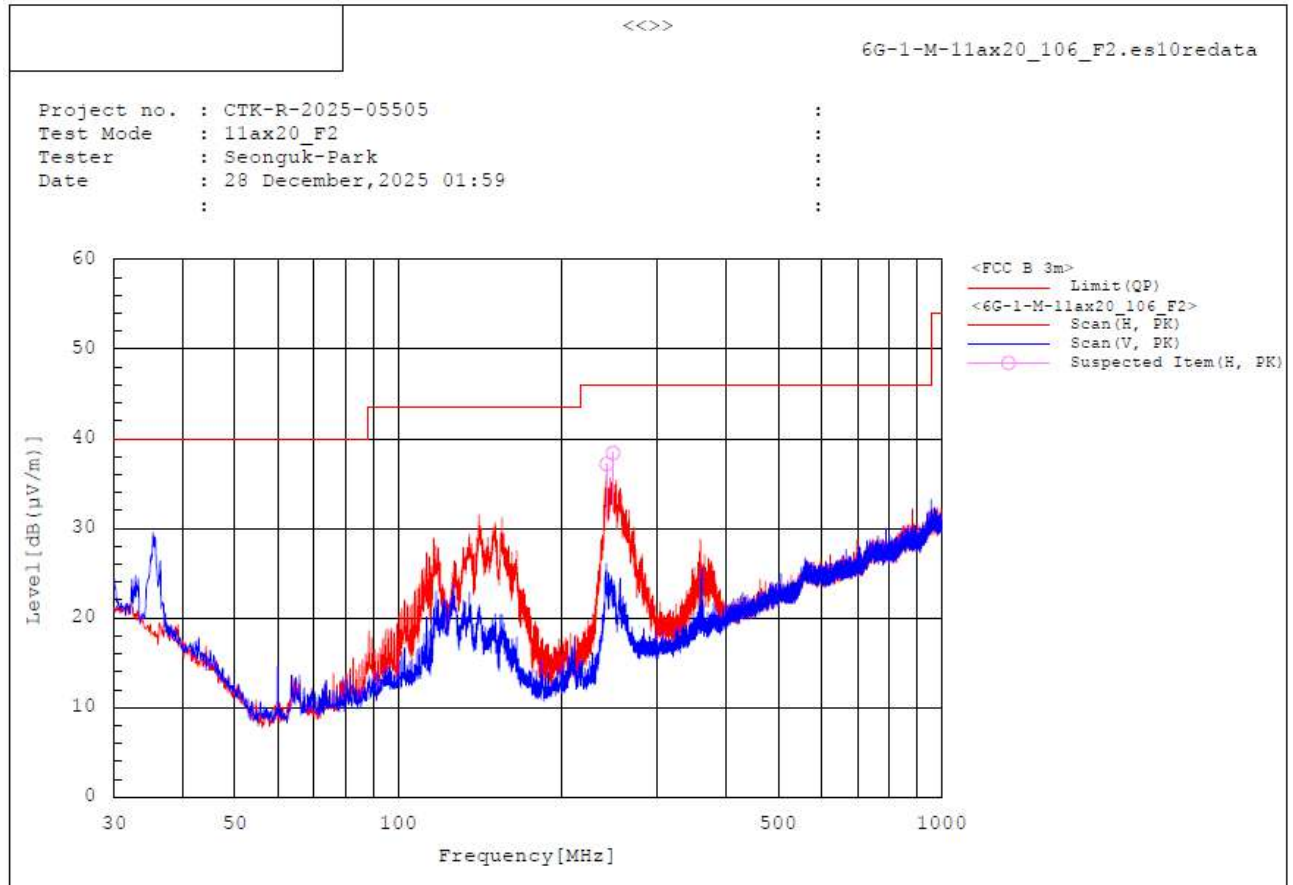
2) 30 MHz to 1 GHz

Test Mode : Transmitter_UNII 5 (Worst Case)

The requirements are:

☒ Complies

Test Data :



Spectrum Selection

No.	Frequency [MHz]	Fol	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [deg]	Remark
1	241.751	H	48.6	-11.4	37.2	46.0	8.8	100.0	359.9	
2	248.153	H	49.2	-10.8	38.4	46.0	7.6	100.0	169.6	

Remark :

- Measuring position : The Unwanted emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X,Y axis). The worst emission was found in lie-down position (Z axis) and the worst case was recorded.
- Result = Reading + c.f (Correction factor)
- Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp gain



CTK Co., Ltd.

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

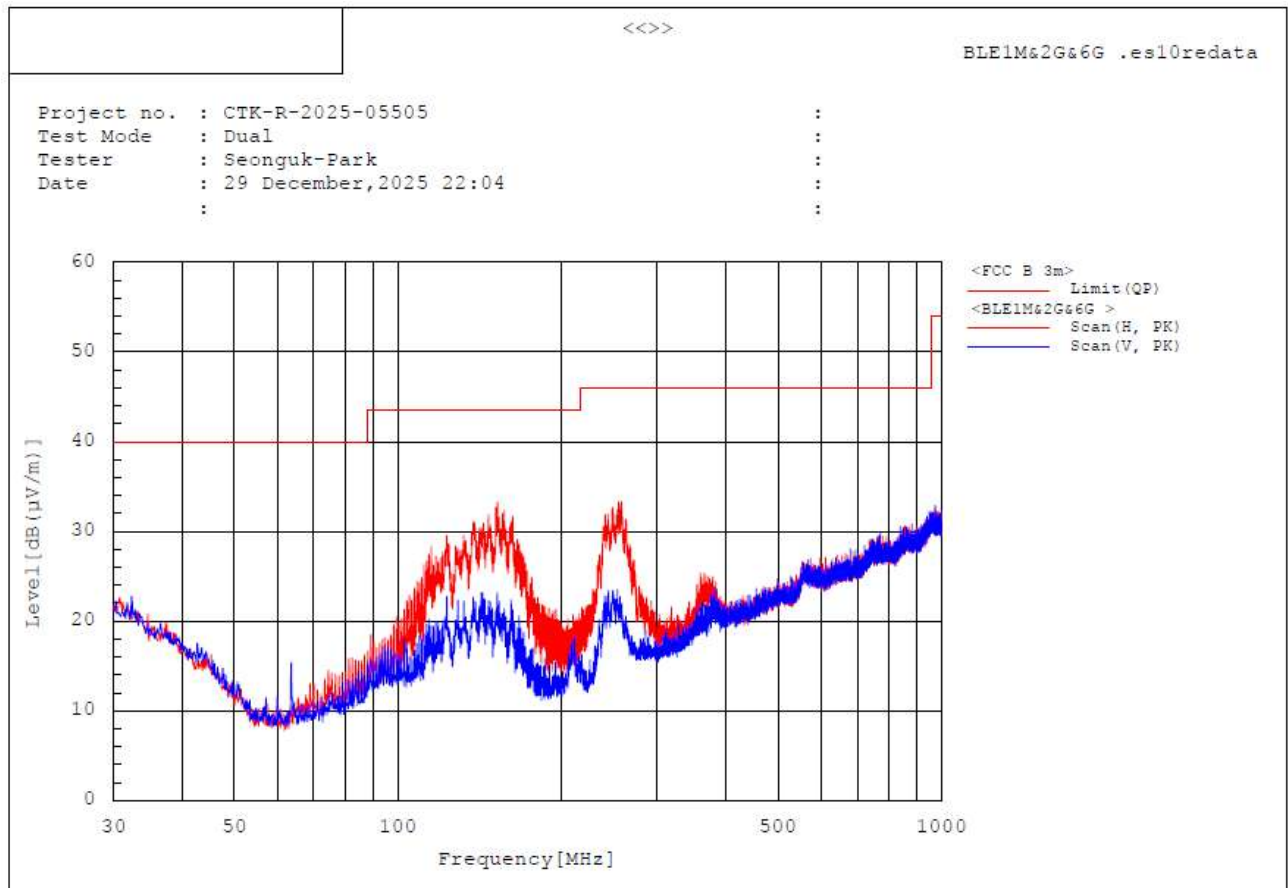
REPORT No.:
CTK-2026-00064
Page (357) / (417) Pages

Test Mode : Transmitter (Simultaneous transmissions DTS + UNII 5)

The requirements are:

☒ Complies

Test Data :



Remark :

1. Measuring position : The Unwanted emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X,Y axis). The worst emission was found in lie-down position (Z axis) and the worst case was recorded.
2. Result = Reading + c.f (Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp gain



CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (358) / (417) Pages

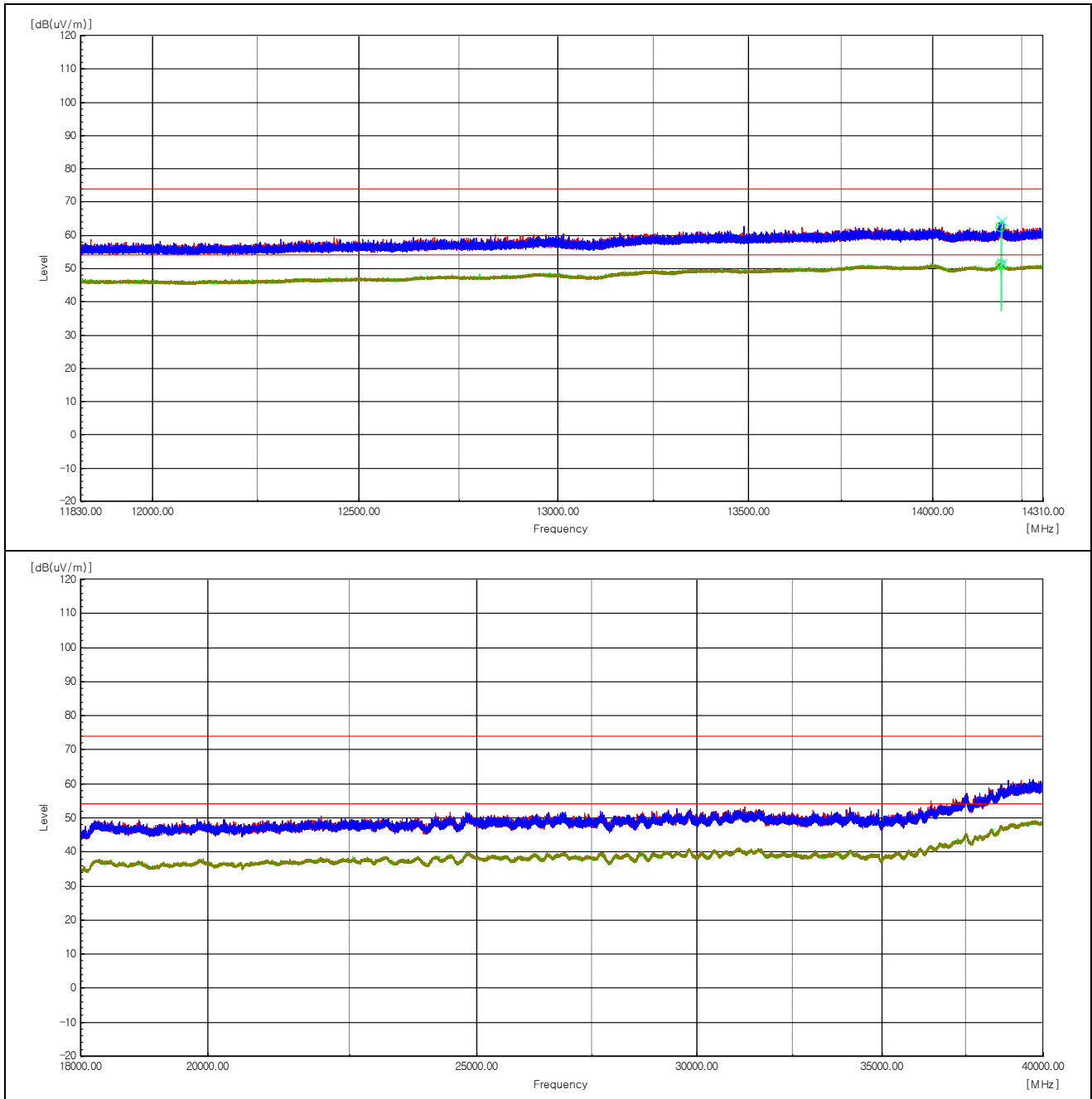
3) Above 1 GHz

Test Mode : Transmitter (Worst Case)

The requirements are:

☒ Complies

Test Data :





CTK Co., Ltd.

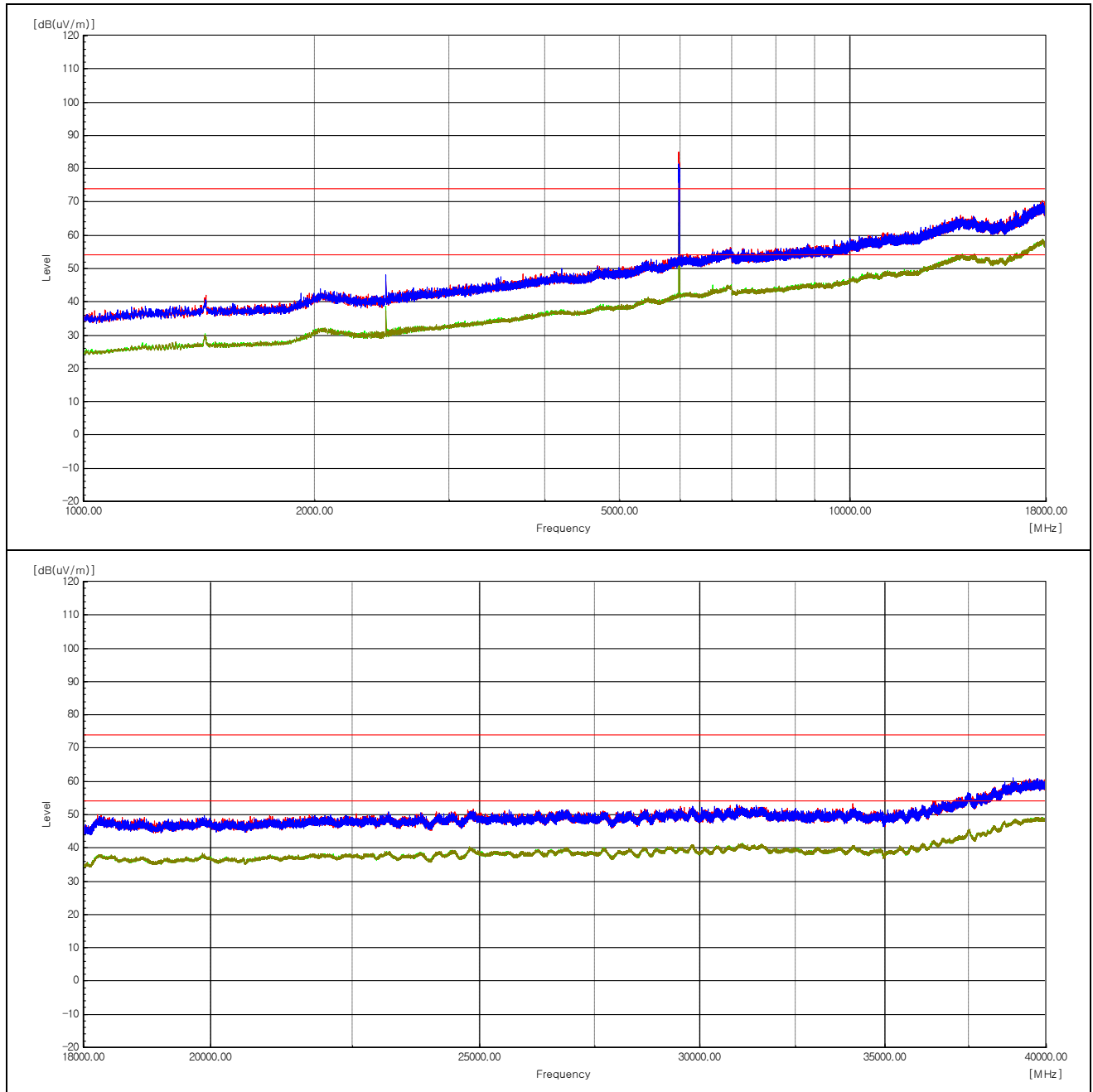
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-00064
Page (359) / (417) Pages

Test Mode : Transmitter (Simultaneous transmissions DTS + UNII 5)

The requirements are:

☒ Complies



**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (360) / (417) Pages

Test Mode : Transmitter (802.11a, ANT0)

The requirements are:

☒ Complies

Ch.5(5 975 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 934.66	H	44.8	14.0	-----	58.80	-----	74.00	-----	15.20	-----	Peak
11 946.27	H	32.0	14.0	0.14	-----	46.14	-----	54.00	-----	7.86	Average
11 945.67	V	50.2	14.0	-----	64.20	-----	74.00	-----	9.80	-----	Peak
11 949.64	V	34.5	14.0	0.14	-----	48.64	-----	54.00	-----	5.36	Average

Ch.53(6 215 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
12 430.08	H	46.9	14.8	-----	61.70	-----	74.00	-----	12.30	-----	Peak
12 429.69	H	33.5	14.8	0.14	-----	48.44	-----	54.00	-----	5.56	Average
12 430.98	V	50.9	14.8	-----	65.70	-----	74.00	-----	8.30	-----	Peak
12 429.09	V	37.0	14.8	0.14	-----	51.94	-----	54.00	-----	2.06	Average

Ch.85(6 375 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
12 754.28	H	46.1	15.9	-----	62.00	-----	74.00	-----	12.00	-----	Peak
12 748.03	H	33.1	15.9	0.14	-----	49.14	-----	54.00	-----	4.86	Average
12 752.30	V	51.3	15.9	-----	67.20	-----	74.00	-----	6.80	-----	Peak
12 751.51	V	35.8	15.9	0.14	-----	51.84	-----	54.00	-----	2.16	Average

Ch.101(6 455 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
12 900.71	H	43.9	16.8	-----	60.70	-----	74.00	-----	13.30	-----	Peak
12 912.81	H	31.5	16.9	0.14	-----	48.54	-----	54.00	-----	5.46	Average
12 906.86	V	49.3	16.8	-----	66.10	-----	74.00	-----	7.90	-----	Peak
12 908.45	V	34.5	16.9	0.14	-----	51.54	-----	54.00	-----	2.46	Average

Ch.117(6 535 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
13 073.82	H	44.6	17.1	-----	61.70	-----	74.00	-----	12.30	-----	Peak
13 067.97	H	31.8	17.1	0.14	-----	49.04	-----	54.00	-----	4.96	Average
13 075.21	V	50.4	17.1	-----	67.50	-----	74.00	-----	6.50	-----	Peak
13 071.34	V	34.2	17.1	0.14	-----	51.44	-----	54.00	-----	2.56	Average

Ch.149(6 695 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
13 390.18	H	44.8	18.1	-----	62.90	-----	74.00	-----	11.10	-----	Peak
13 390.78	H	31.3	18.1	0.14	-----	49.54	-----	54.00	-----	4.46	Average
13 389.98	V	47.3	18.1	-----	65.40	-----	74.00	-----	8.60	-----	Peak
13 389.88	V	33.2	18.1	0.14	-----	51.44	-----	54.00	-----	2.56	Average

**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (361) / (417) Pages

Ch.181(6 855 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
-----------------	-----	----------------	---------------	------------------------	-------------------	-------------------	-------------------	-------------------	----------------	----------------	------

The emissions above 1 GHz were 20 dB lower than the limit.

Ch.197(6 935 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
13 843.34	H	43.4	19.1	-----	62.50	-----	74.00	-----	11.50	-----	Peak
13 836.00	H	31.0	19.1	0.14	-----	50.24	-----	54.00	-----	3.76	Average
13 866.26	V	44.5	19.2	-----	63.70	-----	74.00	-----	10.30	-----	Peak
13 870.13	V	32.2	19.2	0.14	-----	51.54	-----	54.00	-----	2.46	Average

Ch.213(7 015 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
-----------------	-----	----------------	---------------	------------------------	-------------------	-------------------	-------------------	-------------------	----------------	----------------	------

The emissions above 1 GHz were 20 dB lower than the limit.

Ch.229(7 095 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
14 186.89	H	44.3	18.9	-----	63.20	-----	74.00	-----	10.80	-----	Peak
14 189.96	H	30.9	19.0	0.14	-----	50.04	-----	54.00	-----	3.96	Average
14 186.00	V	44.8	18.9	-----	63.70	-----	74.00	-----	10.30	-----	Peak
14 190.26	V	32.7	19.0	0.14	-----	51.84	-----	54.00	-----	2.16	Average

Remarks

1. Measuring position : The Unwanted emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X,Y axis). The worst emission was found in lie-down position (Z axis) and the worst case was recorded.
2. Peak result = Reading + c.f (Correction factor)
Average result = Reading + c.f (Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp gain
4. The 18 GHz end had no signal detected. As can be seen from the conducted spurious emission test, no signal was detected in the section.

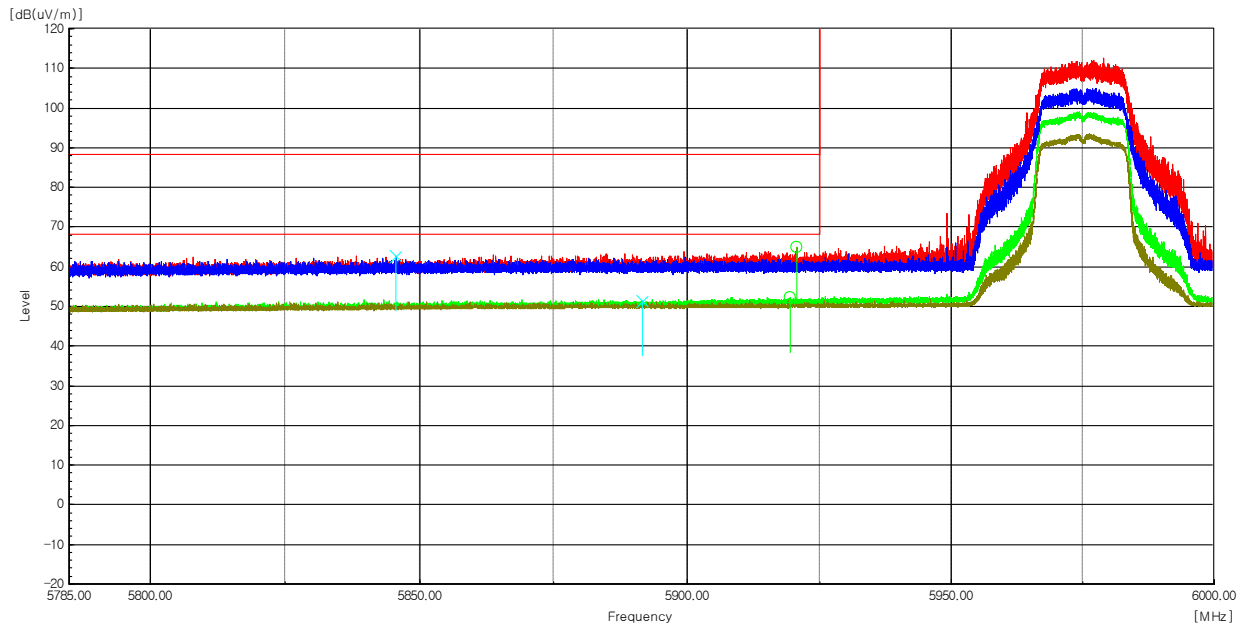


CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (362) / (417) Pages

Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 975 MHz
Channel :	5



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
5 920.61	H	58.5	6.3	-----	64.80	-----	88.20	-----	23.40	-----	Peak
5 919.42	H	46.1	6.2	0.14	-----	52.44	-----	68.20	-----	15.76	Average
5 845.62	V	56.9	5.9	-----	62.80	-----	88.20	-----	25.40	-----	Peak
5 891.54	V	45.4	6.1	0.14	-----	51.64	-----	68.20	-----	16.56	Average

Radiated Restricted Band Edge Plot

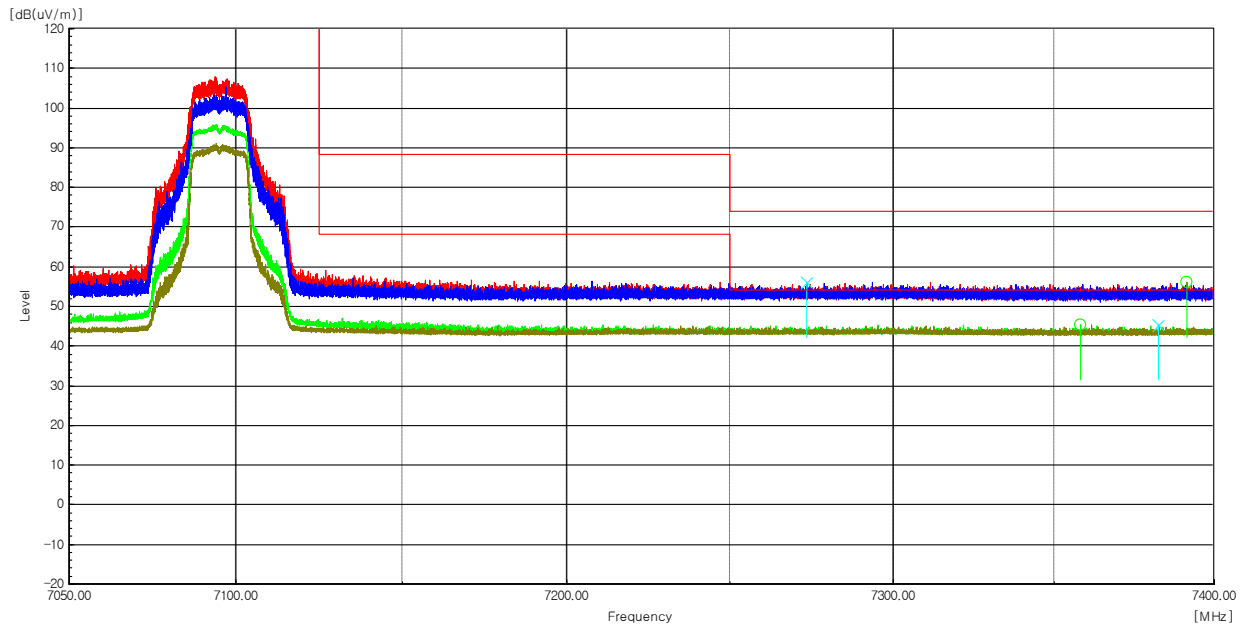


CTK Co., Ltd.

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

REPORT No.:
CTK-2026-00064
Page (363) / (417) Pages

Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	7 095 MHz
Channel :	229



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
7 391.35	H	46.8	9.2	-----	56.00	-----	74.00	-----	18.00	-----	Peak
7 358.39	H	36.3	9.1	0.14	-----	45.54	-----	54.00	-----	8.46	Average
7 273.60	V	47.1	9.1	-----	56.20	-----	74.00	-----	17.80	-----	Peak
7 382.49	V	36.3	9.1	0.14	-----	45.54	-----	54.00	-----	8.46	Average

Radiated Restricted Band Edge Plot

**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (364) / (417) Pages

Test Mode : Transmitter (802.11a, ANT1)

The requirements are:

☒ Complies

Ch.5(5 975 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 952.91	H	48.2	14.0	-----	62.20	-----	74.00	-----	11.80	-----	Peak
11 951.43	H	34.3	14.0	0.14	-----	48.44	-----	54.00	-----	5.56	Average
11 945.57	V	51.8	14.0	-----	65.80	-----	74.00	-----	8.20	-----	Peak
11 950.33	V	37.3	14.0	0.14	-----	51.44	-----	54.00	-----	2.56	Average

Ch.53(6 215 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
12 426.71	H	47.1	14.8	-----	61.90	-----	74.00	-----	12.10	-----	Peak
12 428.99	H	34.3	14.8	0.14	-----	49.24	-----	54.00	-----	4.76	Average
12 429.09	V	48.6	14.8	-----	63.40	-----	74.00	-----	10.60	-----	Peak
12 428.89	V	36.3	14.8	0.14	-----	51.24	-----	54.00	-----	2.76	Average

Ch.85(6 375 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
12 752.60	H	45.5	15.9	-----	61.40	-----	74.00	-----	12.60	-----	Peak
12 752.79	H	33.6	15.9	0.14	-----	49.64	-----	54.00	-----	4.36	Average
12 749.03	V	46.9	15.9	-----	62.80	-----	74.00	-----	11.20	-----	Peak
12 749.92	V	34.3	15.9	0.14	-----	50.34	-----	54.00	-----	3.66	Average

Ch.101(6 455 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
12 911.42	H	48.6	16.9	-----	65.50	-----	74.00	-----	8.50	-----	Peak
12 909.64	H	32.6	16.9	0.14	-----	49.64	-----	54.00	-----	4.36	Average
12 913.51	V	48.9	16.9	-----	65.80	-----	74.00	-----	8.20	-----	Peak
12 910.33	V	34.3	16.9	0.14	-----	51.34	-----	54.00	-----	2.66	Average

Ch.117(6 535 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
13 071.34	H	45.1	17.1	-----	62.20	-----	74.00	-----	11.80	-----	Peak
13 068.76	H	32.9	17.1	0.14	-----	50.14	-----	54.00	-----	3.86	Average
13 066.58	V	45.5	17.1	-----	62.60	-----	74.00	-----	11.40	-----	Peak
13 066.68	V	33.4	17.1	0.14	-----	50.64	-----	54.00	-----	3.36	Average

Ch.149(6 695 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
13 390.88	H	43.9	18.1	-----	62.00	-----	74.00	-----	12.00	-----	Peak
13 389.98	H	32.7	18.1	0.14	-----	50.94	-----	54.00	-----	3.06	Average
13 387.50	V	44.5	18.1	-----	62.60	-----	74.00	-----	11.40	-----	Peak
13 389.68	V	33.5	18.1	0.14	-----	51.74	-----	54.00	-----	2.26	Average

**CTK Co., Ltd.**

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

REPORT No.:
CTK-2026-00064
Page (365) / (417) Pages

Ch.181(6 855 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
--------------------	-----	-------------------	------------------	------------------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	------

The emissions above 1 GHz were 20 dB lower than the limit.

Ch.197(6 935 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
--------------------	-----	-------------------	------------------	------------------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	------

The emissions above 1 GHz were 20 dB lower than the limit.

Ch.213(7 015 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
--------------------	-----	-------------------	------------------	------------------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	------

The emissions above 1 GHz were 20 dB lower than the limit.

Ch.229(7 095 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
14 190.26	H	43.4	19.0	-----	62.40	-----	74.00	-----	11.60	-----	Peak
14 189.67	H	32.0	19.0	0.14	-----	51.14	-----	54.00	-----	2.86	Average
14 192.74	V	45.3	19.0	-----	64.30	-----	74.00	-----	9.70	-----	Peak
14 191.95	V	32.8	19.0	0.14	-----	51.94	-----	54.00	-----	2.06	Average

Remarks

1. Measuring position : The Unwanted emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X,Y axis). The worst emission was found in lie-down position (Z axis) and the worst case was recorded.
2. Peak result = Reading + c.f (Correction factor)
Average result = Reading + c.f (Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp gain
4. The 18 GHz end had no signal detected. As can be seen from the conducted spurious emission test, no signal was detected in the section.