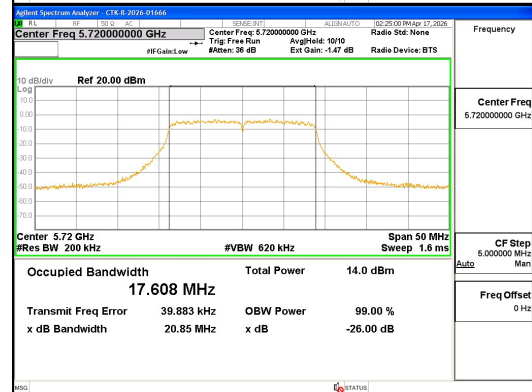
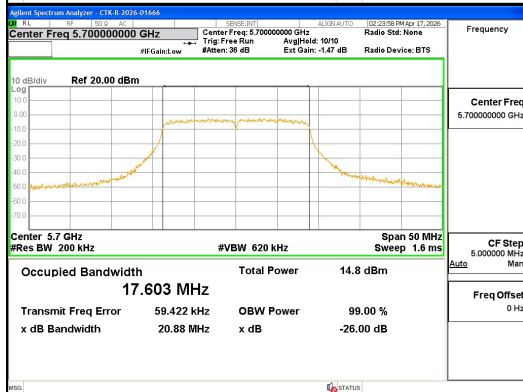
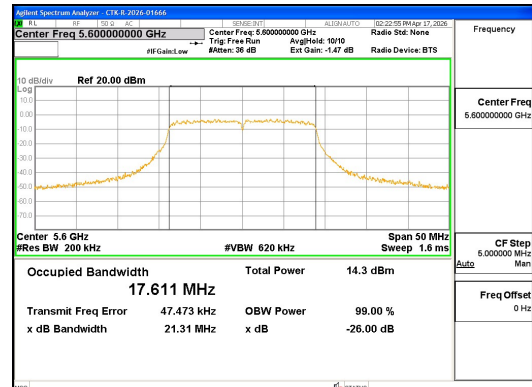
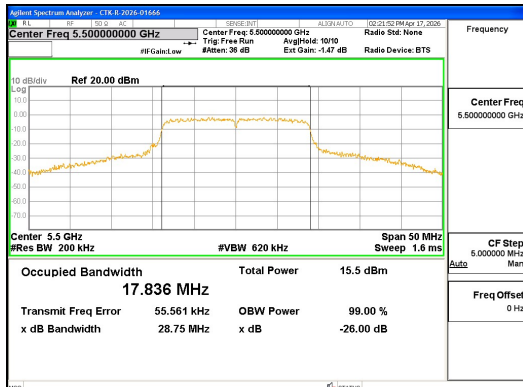




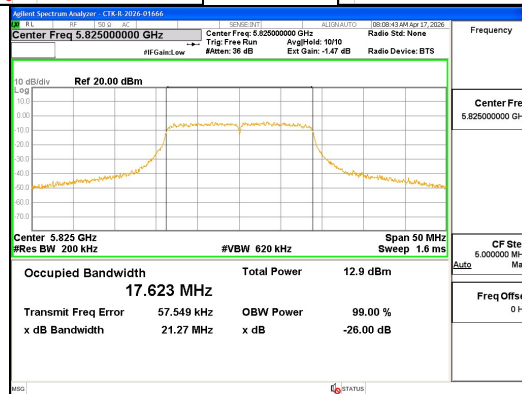
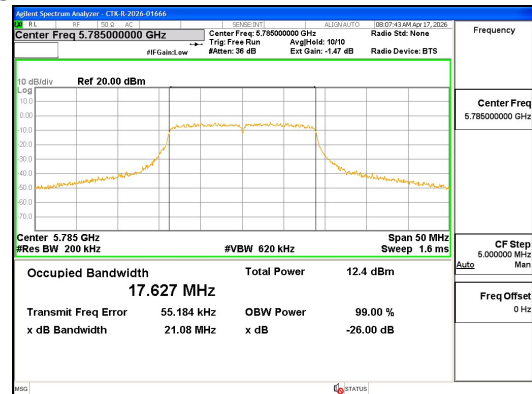
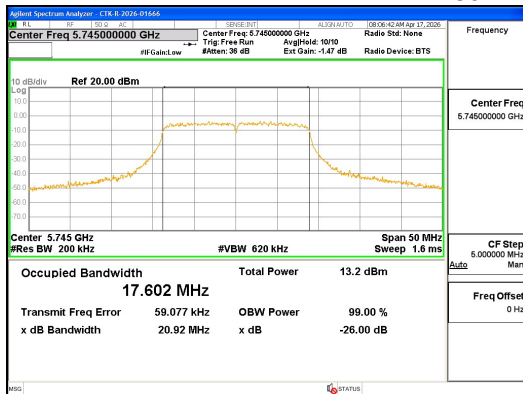
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

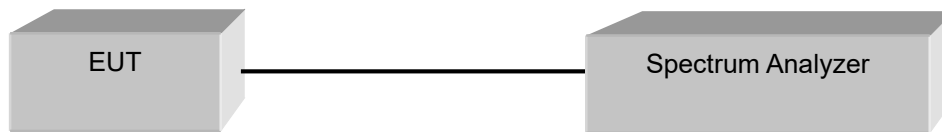
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4.2 Output Power

Test Procedures

KDB 789033 – Section E.2.d (Method SA-1, 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) Span to encompass the entire 99 % OBW of the signal.

b) RBW = 1 MHz

c) VBW $\geq$ 3 MHz

d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.

e) Sweep time = auto

f) Detector = Power averaging (rms)

g) Do not use sweep triggering. Allow the sweep to "free run."

h) Trace average at least 100 traces in power averaging (rms) mode;

i) Compute power by integrating the spectrum across the 99 % OBW of the signal using the instrument's band-power measurement function with band limits set equal to the EBW or OBW band-edges.

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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Limit

Operating Mode	Mode	ANT Gain (dBi)	Band	FCC Limit (dBm)	ISED Limit (dBm)
SISO	802.11a/n	5.22	UNII 1	24.00	Note
		5.62	UNII 2A	24.00	Note
		5.74	UNII 2C	24.00	Note
		5.71	UNII 3	30.00	Note

Note :

Band	Limit (dBm)
UNII 1	the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.
UNII 2A	The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.
UNII 2C	The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.
UNII 3	The maximum conducted output power shall not exceed 1 W.

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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Test Data**[FCC]**

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	12.02	-	12.02	24.00	11.98
	5 200	12.17	-	12.17	24.00	11.83
	5 240	12.30	-	12.30	24.00	11.70
	5 260	12.27	-	12.27	24.00	11.73
	5 300	11.88	-	11.88	24.00	12.12
	5 320	11.87	-	11.87	24.00	12.13
	5 500	11.36	-	11.36	24.00	12.64
	5 600	10.22	-	10.22	24.00	13.78
	5 700	10.67	-	10.67	24.00	13.33
	5 720	9.96	-	9.96	24.00	14.04
	5 745	9.11	-	9.11	30.00	20.89
	5 785	8.40	-	8.40	30.00	21.60
	5 825	8.83	-	8.83	30.00	21.17
802.11n _HT20	5 180	13.99	-	13.99	24.00	10.01
	5 200	14.24	-	14.24	24.00	9.76
	5 240	14.36	-	14.36	24.00	9.64
	5 260	11.77	-	11.77	24.00	12.23
	5 300	11.56	-	11.56	24.00	12.44
	5 320	11.56	-	11.56	24.00	12.44
	5 500	10.09	-	10.09	24.00	13.91
	5 600	8.91	-	8.91	24.00	15.09
	5 700	9.36	-	9.36	24.00	14.64
	5 720	8.56	-	8.56	24.00	15.44
	5 745	7.76	-	7.76	30.00	22.24
	5 785	7.05	-	7.05	30.00	22.95
	5 825	7.52	-	7.52	30.00	22.48

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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[ISED]

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result (dBm)		Limit (dBm)		Margin (dB)	
				Conducted Output Power	EIRP	Conducted Output Power	EIRP	Conducted Output Power	EIRP
802.11a	5 180	12.02	-	12.02	17.24	-	22.18	-	4.94
	5 200	12.17	-	12.17	17.39	-	22.18	-	4.79
	5 240	12.30	-	12.30	17.52	-	22.18	-	4.66
	5 260	12.27	-	12.27	17.89	23.19	29.19	10.92	11.30
	5 300	11.88	-	11.88	17.50	23.19	29.19	11.31	11.69
	5 320	11.87	-	11.87	17.49	23.21	29.21	11.34	11.72
	5 500	11.36	-	11.36	17.10	23.26	29.26	11.90	12.16
	5 600	10.22	-	10.22	15.96	23.17	29.17	12.95	13.21
	5 700	10.67	-	10.67	16.41	23.17	29.17	12.50	12.76
	5 720	9.96	-	9.96	15.70	23.17	29.17	13.21	13.47
	5 745	9.11	-	9.11	-	30	-	20.89	-
	5 785	8.40	-	8.40	-	30	-	21.60	-
	5 825	8.83	-	8.83	-	30	-	21.17	-
802.11n _HT20	5 180	13.99	-	13.99	19.21	-	22.20	-	2.99
	5 200	14.24	-	14.24	19.46	-	22.21	-	2.75
	5 240	14.36	-	14.36	19.58	-	22.21	-	2.63
	5 260	11.77	-	11.77	17.39	23.18	29.18	11.41	11.79
	5 300	11.56	-	11.56	17.18	23.19	29.19	11.63	12.01
	5 320	11.56	-	11.56	17.18	23.20	29.20	11.64	12.02
	5 500	10.09	-	10.09	15.83	23.51	29.51	13.42	13.68
	5 600	8.91	-	8.91	14.65	23.46	29.46	14.55	14.81
	5 700	9.36	-	9.36	15.10	23.46	29.46	14.10	14.36
	5 720	8.56	-	8.56	14.3	23.46	29.46	14.90	15.16
	5 745	7.76	-	7.76	-	30	-	22.24	-
	5 785	7.05	-	7.05	-	30	-	22.95	-
	5 825	7.52	-	7.52	-	30	-	22.48	-

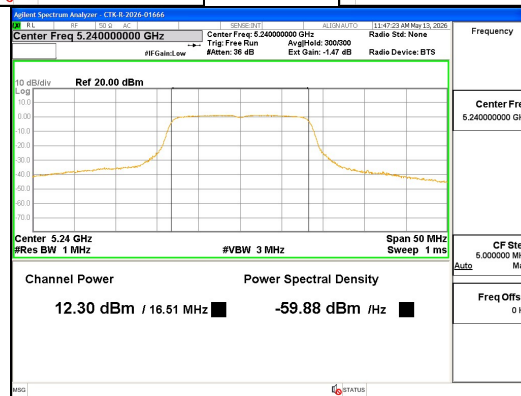
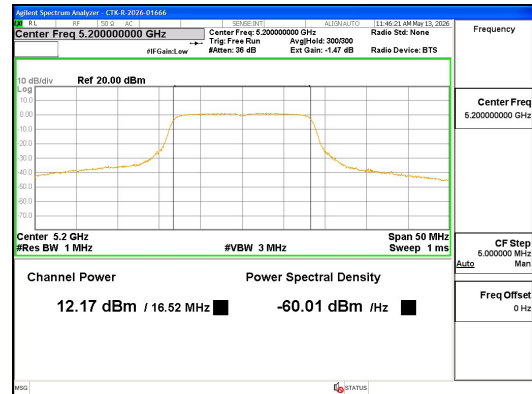
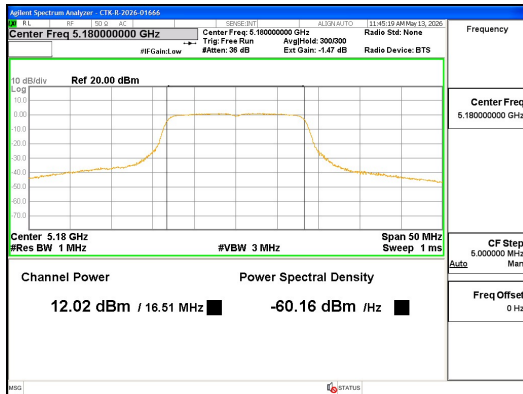
See next pages for actual measured spectrum plots.



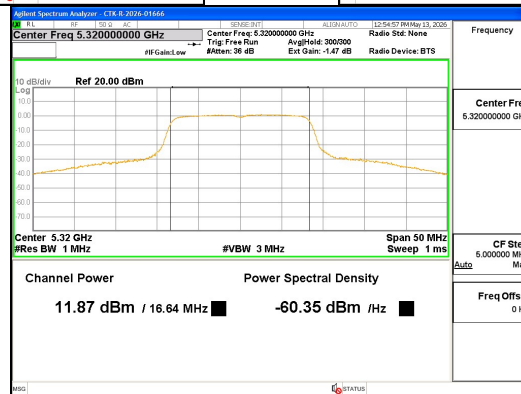
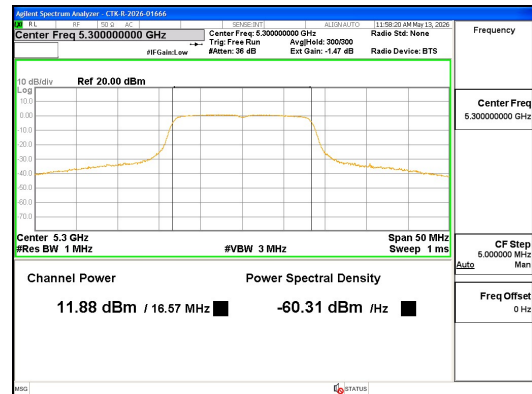
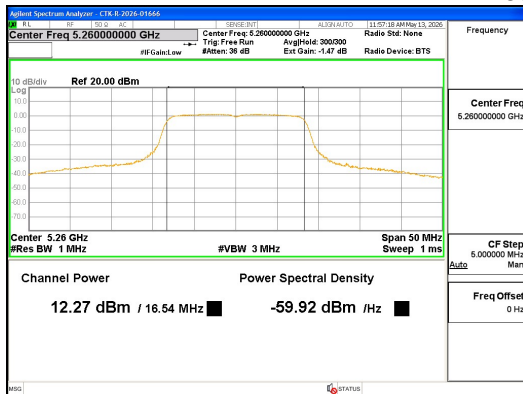
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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802.11a_UNII 1



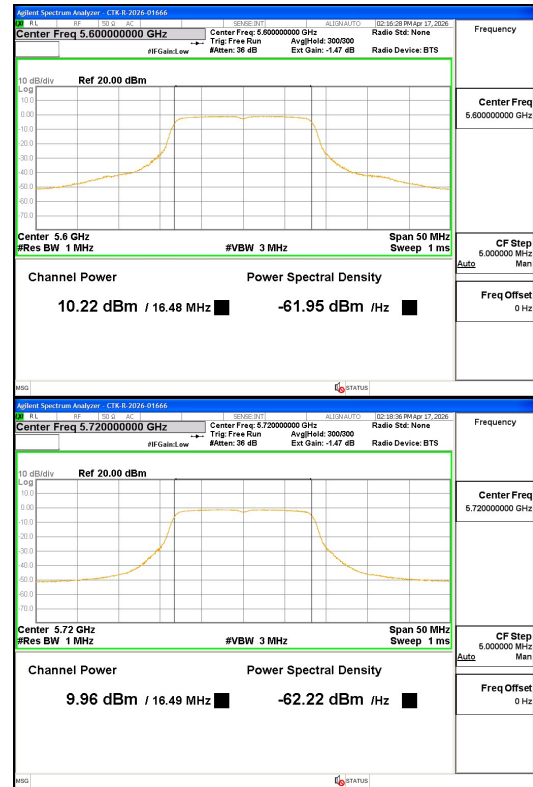
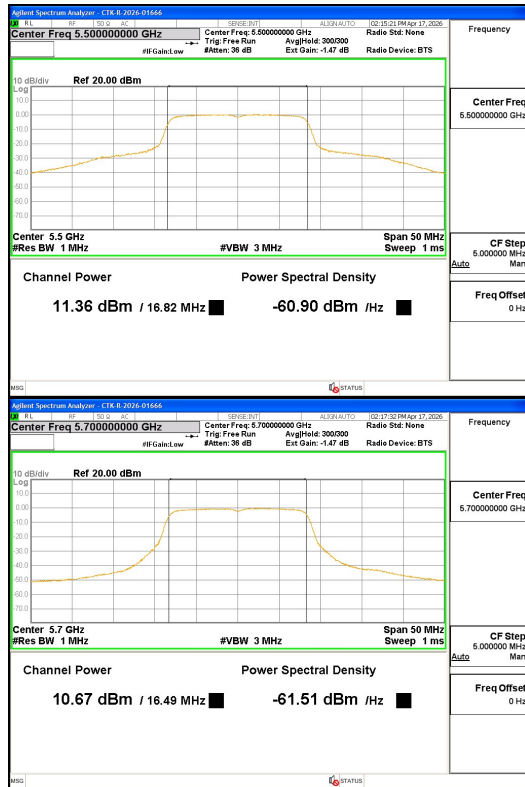
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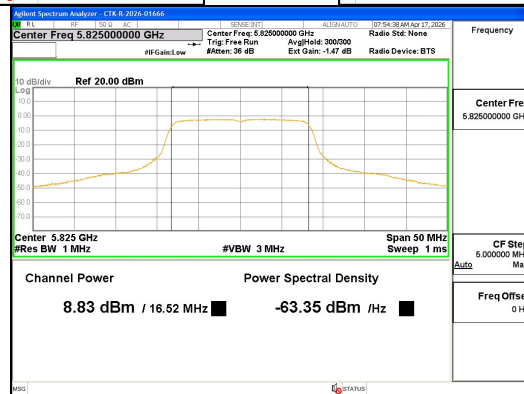
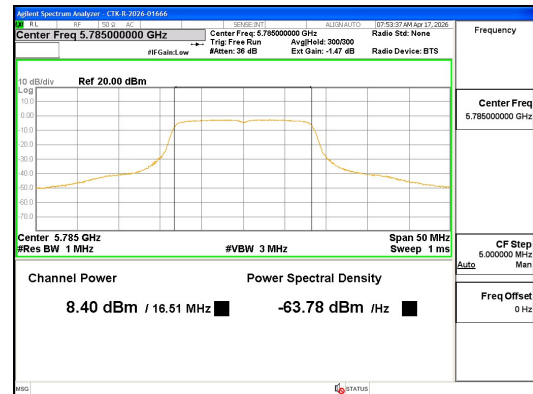
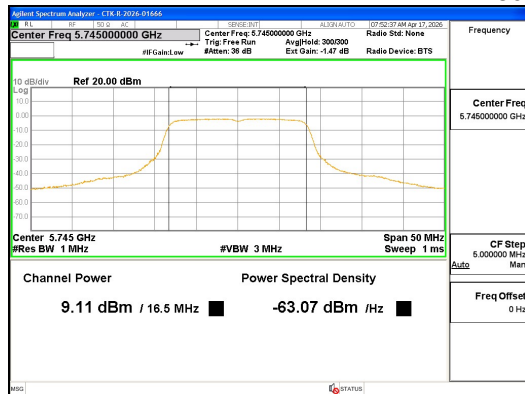
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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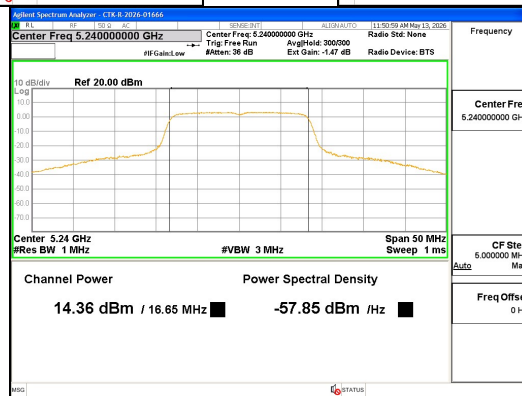
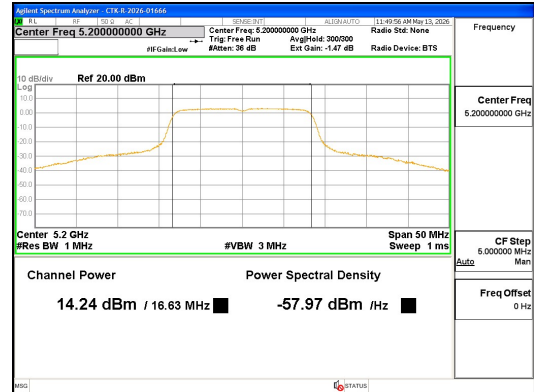
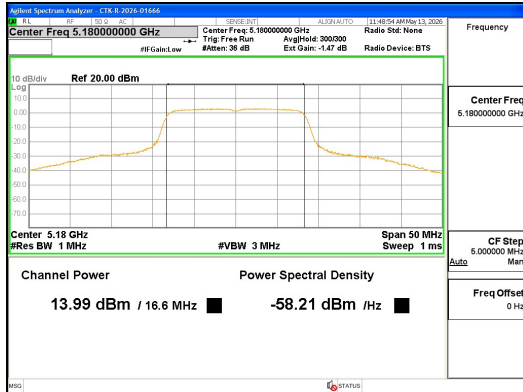
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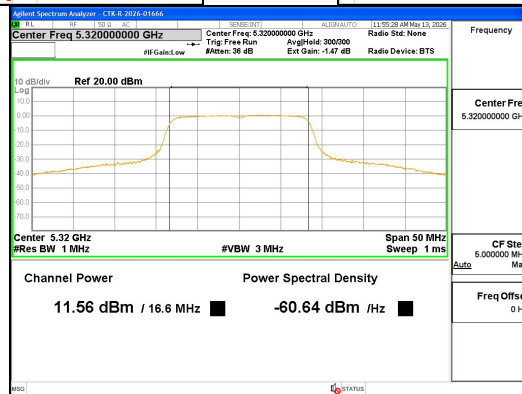
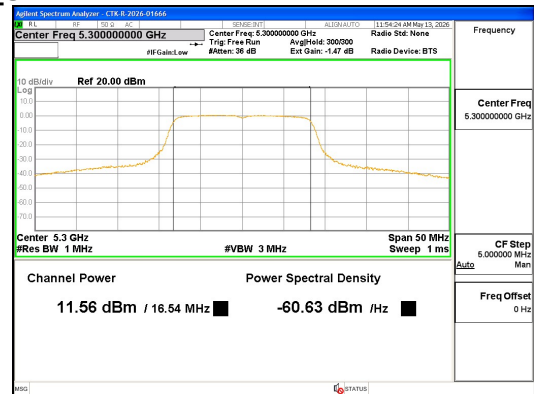
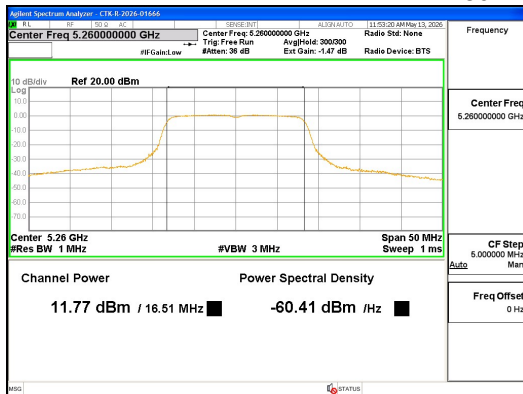
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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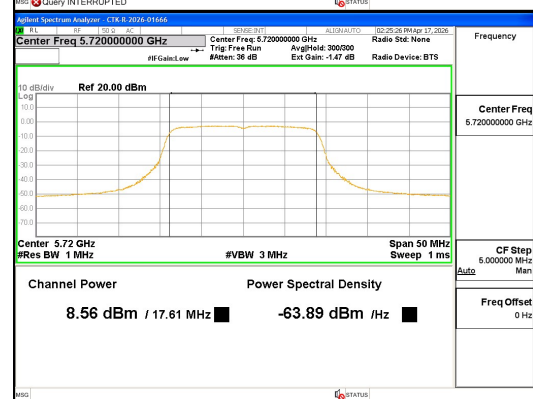
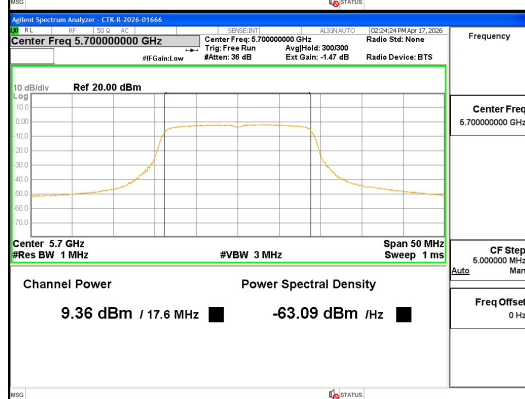
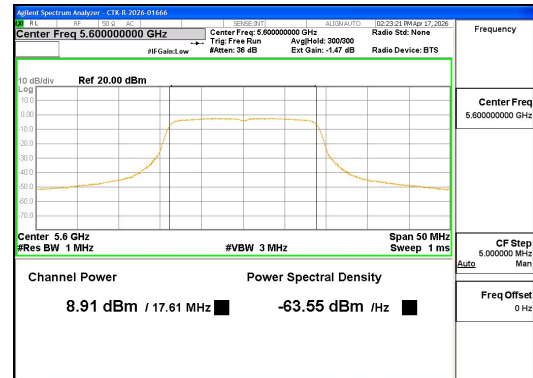
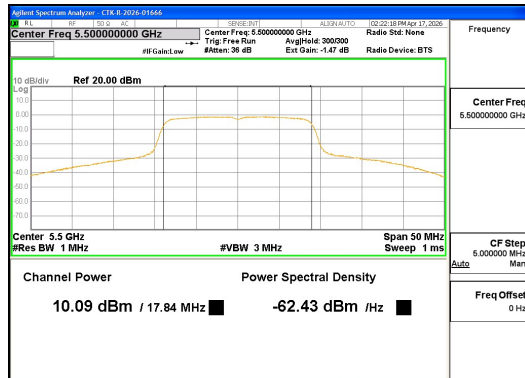
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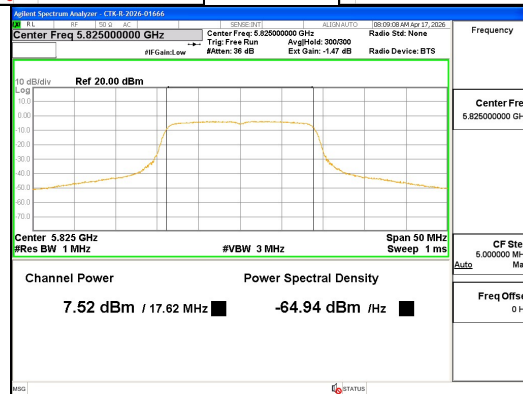
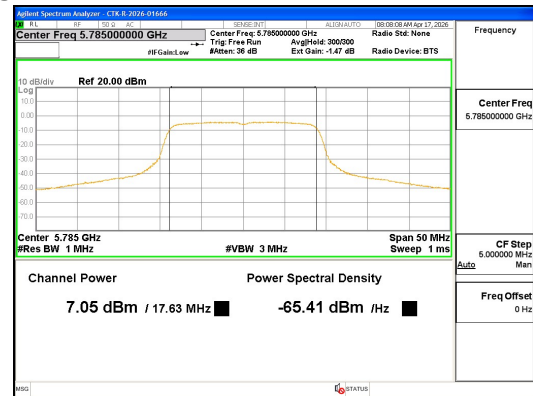
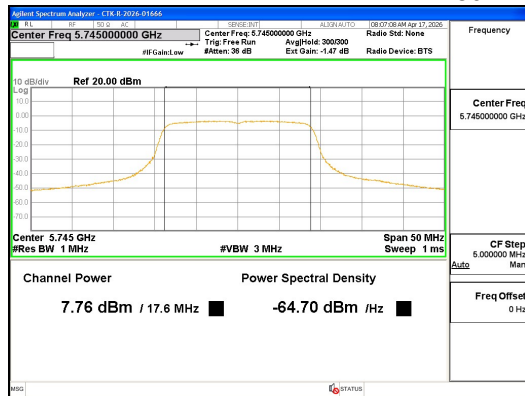
CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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4.3 Power Spectral Density

Test Procedures

KDB 789033 – Section F (Method SA-1, Maximum Power Spectral Density)
ANSI C63.10-2020 – Section 12.6

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Test Settings:

Center frequency = the highest, middle and the lowest channels

- a) RBW = 1 MHz, 500 kHz (UNII 3)
- b) VBW = 3 MHz, 1.5 MHz (UNII 3)
- c) Sweep time = auto
- d) Detector = power averaging (rms)
- e) Trace mode = Average at least 100

Limit

Operating Mode	Mode	ANT Gain (dBi)	Band	FCC Limit (dBm)	ISED Limit (dBm)
SISO	802.11a/n	5.22	UNII 1	11.00	10.00 (EIRP)
		5.62	UNII 2A	11.00	11.00
		5.74	UNII 2C	11.00	11.00
		5.71	UNII 3	30.00	30.00

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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Test Data**[FCC]**

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	0.93	-	0.93	11.00	10.07
	5 200	1.00	-	1.00	11.00	10.00
	5 240	1.14	-	1.14	11.00	9.86
	5 260	1.08	-	1.08	11.00	9.92
	5 300	0.71	-	0.71	11.00	10.29
	5 320	0.76	-	0.76	11.00	10.24
	5 500	0.19	-	0.19	11.00	10.81
	5 600	-0.88	-	-0.88	11.00	11.88
	5 700	-0.44	-	-0.44	11.00	11.44
	5 720	-1.20	-	-1.20	11.00	12.20
	5 745	-4.89	-	-4.89	30.00	34.89
	5 785	-5.50	-	-5.50	30.00	35.50
	5 825	-5.15	-	-5.15	30.00	35.15
802.11n _HT20	5 180	2.85	-	2.85	11.00	8.15
	5 200	2.97	-	2.97	11.00	8.03
	5 240	3.13	-	3.13	11.00	7.87
	5 260	0.61	-	0.61	11.00	10.39
	5 300	0.36	-	0.36	11.00	10.64
	5 320	0.51	-	0.51	11.00	10.49
	5 500	-1.27	-	-1.27	11.00	12.27
	5 600	-2.36	-	-2.36	11.00	13.36
	5 700	-1.90	-	-1.90	11.00	12.9
	5 720	-2.81	-	-2.81	11.00	13.81
	5 745	-6.47	-	-6.47	30.00	36.47
	5 785	-7.21	-	-7.21	30.00	37.21
	5 825	-6.71	-	-6.71	30.00	36.71

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

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[ISED]

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	0.93	-	6.15	10.00	3.85
	5 200	1.00	-	6.22	10.00	3.78
	5 240	1.14	-	6.36	10.00	3.64
	5 260	1.08	-	6.70	11.00	4.30
	5 300	0.71	-	6.33	11.00	4.67
	5 320	0.76	-	6.38	11.00	4.62
	5 500	0.19	-	5.93	11.00	5.07
	5 600	-0.88	-	4.86	11.00	6.14
	5 700	-0.44	-	5.30	11.00	5.70
	5 720	-1.20	-	4.54	11.00	6.46
	5 745	-4.89	-	0.82	30.00	29.18
	5 785	-5.50	-	0.21	30.00	29.79
	5 825	-5.15	-	0.56	30.00	29.44
802.11n _HT20	5 180	2.85	-	8.07	10.00	1.93
	5 200	2.97	-	8.19	10.00	1.81
	5 240	3.13	-	8.35	10.00	1.65
	5 260	0.61	-	6.23	11.00	4.77
	5 300	0.36	-	5.98	11.00	5.02
	5 320	0.51	-	6.13	11.00	4.87
	5 500	-1.27	-	4.47	11.00	6.53
	5 600	-2.36	-	3.38	11.00	7.62
	5 700	-1.90	-	3.84	11.00	7.16
	5 720	-2.81	-	2.93	11.00	8.07
	5 745	-6.47	-	-0.76	30.00	30.76
	5 785	-7.21	-	-1.50	30.00	31.50
	5 825	-6.71	-	-1.00	30.00	31.00

* Note :

UNII 1 Result Power Density = Measured Power Density + Duty cycle Factor + Antenna gain

See next pages for actual measured spectrum plots.