

TEST REPORT

**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-2025-02084
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1. Applicant

- Name : Pittasoft Co.,Ltd.
- Address : A 4th floor, ABN Tower, 331, Pangyo-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
- Date of Receipt : 2025-04-07

2. Manufacturer

- Name : Pittasoft Co.,Ltd.
- Address : A 4th floor, ABN Tower, 331, Pangyo-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea

3. Use of Report : For FCC & ISED Certification

4. Test Sample / Model: Car Dashcam / ELITE8-2CH

5. Date of Test : 2025-05-28 to 2025-07-07

6. Test Standard(method) used : FCC 47 CFR part 15 subpart E 15.407 ANSI C63.10-2013, RSS-247 & RSS-Gen

7. Testing Environment: refer to 12 page

8. Test Results : Compliance

9. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

(Address : (Unhak-Dong) 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This report cannot be reproduced or copied without the written consent of CTK.

Approval	Tested by	Technical Manager
	Gwanyong Kim: (Signature) 	Young-taek Lee: (Signature) 

2025-08-07

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REPORT REVISION HISTORY

Date	Revision	Page No
2025-08-07	Issued (CTK-2025-02084)	all

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1. General Product Description

1.1 Applicant Information

Company	Pittasoft Co.,Ltd.
Contact Point	A 4th floor, ABN Tower, 331, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Contact Person	Name : Minho Shin E-mail : shinmh@pittasoft.com Tel : +82-31-8039-7789 Fax : -

1.2 Product Information

FCC ID	YCK-ELITE8	
ISED	23402-ELITE8	
Product Description	Car Dashcam	
Basic model (HVIN)	ELITE8-2CH	
Variant Model name	ELITE8-1CH, ELITE8-2CH IR, ELITE8-2CH Truck, ELITE8-2CH Pro, ELITE8-1CH Pro, ELITE8-1CH Plus, ELITE8-2CH Plus, DR800 GOLD PRO-1CH, DR800 GOLD PRO-2CH (There are no technical differences. it's simply a derivative model name based on the seller. The difference between 1CH and 2CH of the variant model is the difference in the number of cameras.)	
Operating Frequency	UNII 1	20 MHz_BW : 5 180 MHz – 5 240 MHz 40 MHz_BW : 5 190 MHz – 5 230 MHz 80 MHz_BW : 5 210 MHz
	UNII 3	20 MHz_BW : 5 745 MHz – 5 825 MHz 40 MHz_BW : 5 755 MHz – 5 795 MHz 80 MHz_BW : 5 775 MHz
RF Output Power	802.11a : 7.26 dBm (5.32 mW) 802.11n_HT20 : 4.57 dBm (2.86 mW) 802.11n_HT40 : 1.86 dBm (1.54 mW) 802.11ac_VHT20 : 6.68 dBm (4.66 mW) 802.11ac_VHT40 : 1.54 dBm (1.43 mW) 802.11ac_VHT80 : -0.53 dBm (0.88 mW)	
Antenna Specification	Antenna type : Chip Antenna	
	UNII 1	Peak Gain : 1.46 dBi
	UNII 3	Peak Gain : 1.73 dBi
Type of Modulation	802.11a/n/ac : OFDM	
Power Source	DC 12 V, DC 24 V (A voltage regulator circuit is designed to supply 3.3 V to the RF section)	
Hardware Rev	1.0	
Software Rev(FVIN)	V1.000	
SW provided bt the client	Realtek 11ac 8821C USB WLAN MP Diagnostic Program 0.0003.07.20190211	

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RF Power setting in Test SW

Mode	Band	Frequency	Power Setting Value
802.11a	UNII 1	5 180 MHz	38
	UNII 1	5 200 MHz~ 5 240 MHz	36
	UNII 3	5 745 MHz ~ 5 825 MHz	
802.11n_HT20	UNII 1	5 180 MHz	33
	UNII 1	5 200 MHz~ 5 240 MHz	
	UNII 3	5 745 MHz ~ 5 825 MHz	
802.11ac_VHT20	UNII 1	5 180 MHz	37
	UNII 1	5 200 MHz~ 5 240 MHz	
	UNII 3	5 745 MHz ~ 5 825 MHz	
802.11n_HT40	UNII 1	5 190 MHz	28
	UNII 1	5 230 MHz	
	UNII 3	5 755 MHz – 5 795 MHz	
802.11ac_VHT40	UNII 1	5 190 MHz	28
	UNII 1	5 230 MHz	
	UNII 3	5 755 MHz – 5 795 MHz	
802.11ac_VHT80	UNII 1	5 210 MHz	28
	UNII 3	5 775 MHz	

1.3 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	Samsung	NT350XCR	48JW9FFRA00628D
AC Adapter	Samsung	PA-1400-96	AD-4019A
Note Computer	HP	15-bs563TU	CND7253R6N
AC/DC Adapter	HP	HSTNN-CA40	-
Note Computer	HP	HP ProBook 440 G3	5CD6133422
AC Adapter	HP	HSTNN-LA40	-

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2. Accreditations

2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	CN : 8737A CAB ID : KR0025
KOREA	NRRA	KR0025

2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

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3. Test Specifications

3.1 FCC Standards

FCC Part Section(s)	Requirement(s)	Limit	Status (Note 1)	Test Condition
15.407 (e)	6 dB Bandwidth	> 500 kHz (5 725 – 5 850 MHz)	C	Conducted
15.407 (a)	26 dB Bandwidth and 99% Bandwidth	NA	C	
15.407 (a)(1),(2),(3)	Conducted Output Power	< 250 mW (5 150 – 5 250 MHz) < 1 W (5 725 – 5 850 MHz)	C	
15.407 (a)(1),(2),(3)	Power Spectral Density	< 11 dBm/MHz (5 150 – 5 250 MHz) < 30 dBm/500 kHz (5 725 – 5 850 MHz)	C	
15.407 (g)	Frequency Stability	NA	C	
15.407 (b)	Undesirable emission	< -27 dBm/MHz EIRP (5 150 – 5 250 MHz) < -27 dBm/MHz EIRP < 10 dBm/MHz EIRP < 15.6 dBm/MHz EIRP < 27 dBm/MHz EIRP (5 725 – 5 850 MHz)	C	Radiated
15.205, 15.407 (b)(9),(10)	Radiated Spurious Emission	15.209(a)	C	
15.407 (b)(9)	AC Conducted Emissions	15.207(a)	C	Line Conducted
<u>Note 1:</u> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
<u>Note 2:</u> The data in this test report are traceable to the national or international standards.				
<u>Note 3:</u> The sample was tested according to the following specification: FCC Part 15.407, ANSI C63.10-2013				
<u>Note 4:</u> The tests were performed according to the method of measurements prescribed in KDB No.789033				

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3.2 ISED Standards

ISED Part Section(s)	Requirement(s)	Limit	Status (Note 1)	Test Condition
RSS-Gen 6.7	6 dB Bandwidth	> 500 kHz (5 725 – 5 850 MHz)	C	Conducted
RSS-Gen 6.7	26 dB Bandwidth and 99% Bandwidth	NA	C	
RSS-247 6.2.1.1, 6.2.4.2	Conducted Output Power	< 30 mW EIRP (5 150 – 5 250 MHz) < 1 W (5 725 – 5 850 MHz)	C	
RSS-247 6.2.1.1, 6.2.4.2	Power Spectral Density	< 10 dBm/MHz EIRP (5 150 – 5 250 MHz) < 30 dBm/500 kHz (5 725 – 5 850 MHz)	C	
RSS-Gen 6.11	Frequency Stability	NA	C	
RSS-247 6.2.1.2, 6.2.4.3	Undesirable emission	< -27 dBm/MHz EIRP (5 150 – 5 250 MHz) < -27 dBm/MHz EIRP < 10 dBm/MHz EIRP < 15.6 dBm/MHz EIRP < 27 dBm/MHz EIRP (5 725 – 5 850 MHz)	C	Radiated
RSS-Gen 7.3, 8.9, 8.10	Radiated Spurious Emission	RSS-Gen 7.3 8.9, 8.10	C	
RSS-Gen 8.8	AC Conducted Emissions	RSS-Gen 8.8	C	Line Conducted
Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
Note 2: The data in this test report are traceable to the national or international standards.				
Note 3: The sample was tested according to the following specification: RSS-247 Issue 3, RSS-GEN Issue 5				
Note 4: The tests were performed according to the method of measurements prescribed in KDB No.789033, ANSI C63.10-2013				

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3.2 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments.

During at testing, system components were manipulated within the confines of typical usage to maximize each emission.

For WLAN function, the engineering test program was provided and enabled to make EUT continuous transmit.

All modulation modes were tests. The results are attached only for the DC 12 V power source, considering it the worst case.

Test Frequency & Bandwidth

- 802.11a, 802.11n_HT20, 802.11ac_VHT20

	Lowest channel	Middle channel	Highest channel
UNII 1	5 180 MHz	5 220 MHz	5 240 MHz
UNII 3	5 745 MHz	5 785 MHz	5 825 MHz

- 802.11n_HT40, 802.11ac_VHT40

	Lowest channel	Middle channel	Highest channel
UNII 1	5 190 MHz	-	5 230 MHz
UNII 3	5 755 MHz	-	5 795 MHz

- 802.11ac_VHT80

	Lowest channel	Middle channel	Highest channel
UNII 1	5 210 MHz	-	-
UNII 3	5 775 MHz	-	-

Test mode & Worst case

Test mode	Modulation	Data rate	Duty Cycle	Duty Cycle Factor
802.11a	OFDM	6 Mbps	57.51 %	2.40 dB
802.11n_HT20		MCS 0	55.96 %	2.52 dB
802.11n_HT40		MCS 0	38.84 %	4.11 dB
802.11ac_VHT20		MNSS 0	55.76 %	2.54 dB
802.11ac_VHT40		MNSS 0	38.72 %	4.12 dB
802.11ac_VHT80		MNSS 0	24.09 %	6.18 dB

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

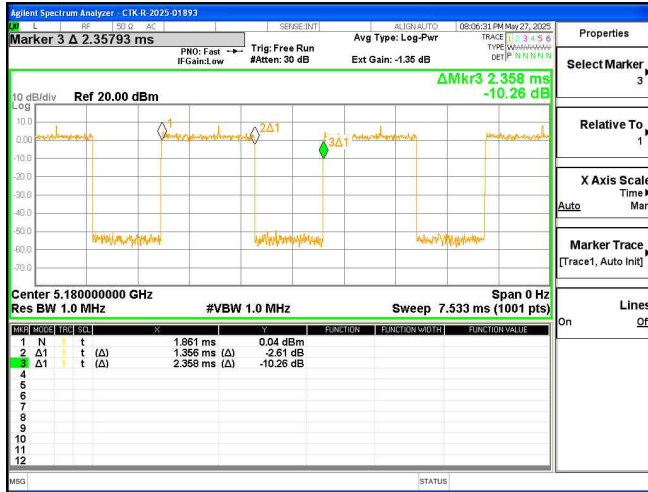


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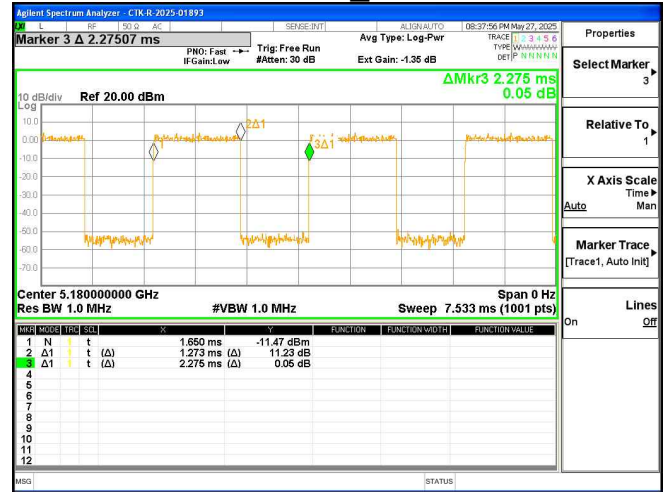
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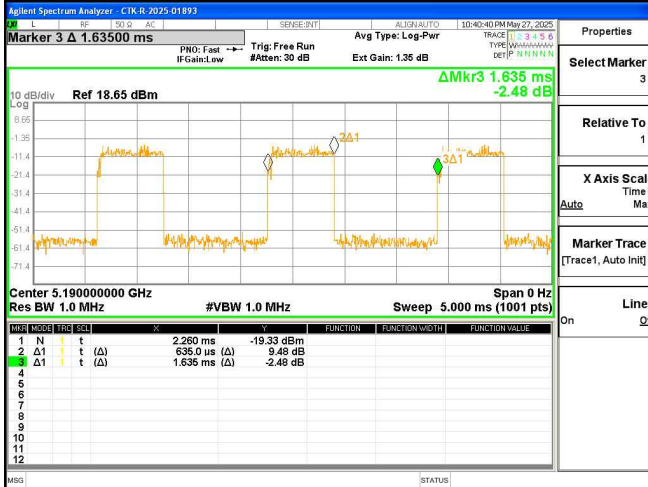
802.11a



802.11n HT20



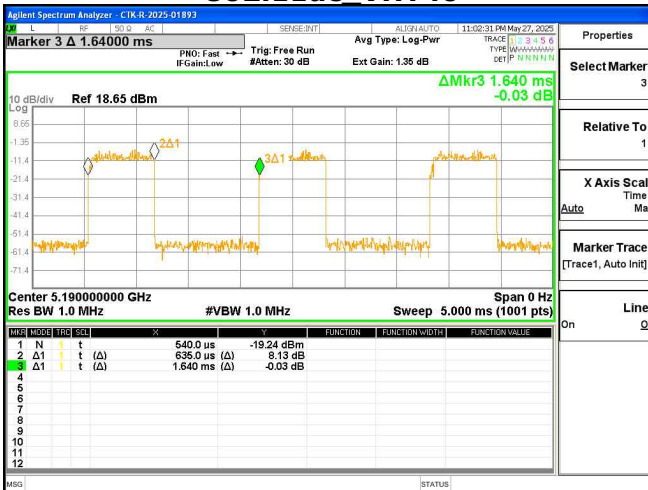
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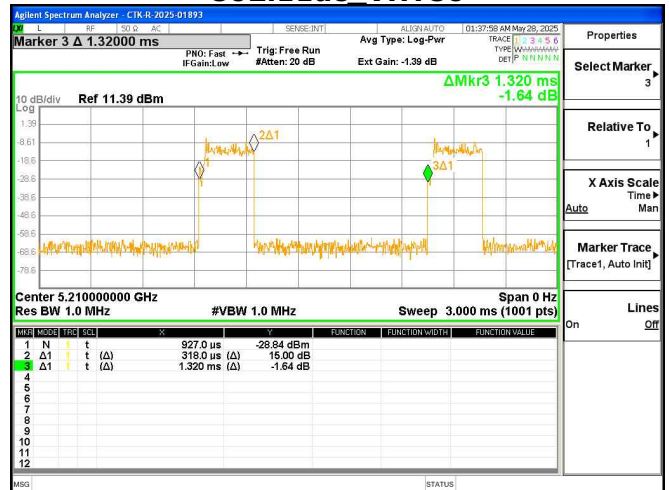
802.11ac VHT20



802.11ac VHT40



802.11ac VHT80



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3.4 Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.
Coverage factor $k = 2$, Confidence levels of 95 %

Description	Uncertainty
Conducted RF Output Power	1.5 dB (C.L.: Approx. 95 %, $k = 2$)
Power Spectral Density	1.5 dB (C.L.: Approx. 95 %, $k = 2$)
Occupied Bandwidth	0.1 MHz (C.L.: Approx. 95 %, $k = 2$)
Unwanted Emission(conducted)	3.0 dB (C.L.: Approx. 95 %, $k = 2$)
Radiated Emissions ($f \leq 1$ GHz)	4.11 dB (C.L.: Approx. 95 %, $k = 2$)
Radiated Emissions ($f > 1$ GHz)	4.48 dB (C.L.: Approx. 95 %, $k = 2$)
Line Conducted Emission	2.06 dB (C.L.: Approx. 95 %, $k = 2$)

3.5 Test Software

Conducted Test	Ics Pro Ver. 6.0.3
Radiated Test	EP5RE Ver. 6.0.10, ES10 Ver. 2022.04.000
Line Conducted Test	EMC32 Ver. 10.50.00

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3.6 Testing Environment

Test Item	Test Date	Temperature (℃)	Relative Humidity (%)
6 dB Bandwidth	2025-05-28	22±1	48±3
26 dB Bandwidth and 99% Bandwidth			
Conducted Output Power			
Power Spectral Density			
Frequency Stability	2025-06-04	24±1	43±3
Radiated Emissions (1GHz Adobe)	2025-06-02, 2025-06-03	23±1	45±3
Radiated Emissions (1GHz Below)	2025-06-03	24±1	43±3
AC Conducted Emissions	2025-05-30	23±1	49±3

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4. Technical Characteristic Test

4.1 6dB Bandwidth

Test Procedures

KDB 789033 – Section C.2
ANSI C63.10-2013 - Section 6.9.2
RSS-Gen - Section 6.7

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 100 kHz
- b) VBW $\geq 3 \times$ RBW
- c) Detector = peak
- d) Trace mode = Max hold
- e) Sweep = auto couple
- f) Allow trace to fully stabilize
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Minimum Standard:

6 dB Bandwidth > 500 kHz

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Test Data:

Mode	802.11a	802.11n_HT20	802.11ac_VHT20
Frequency			
5 180 MHz	16.38	17.28	17.53
5 220 MHz	16.40	17.54	17.55
5 240 MHz	16.37	16.99	17.29
5 745 MHz	16.36	17.56	17.28
5 785 MHz	16.36	17.27	17.13
5 825 MHz	16.40	17.27	17.60

Mode	802.11n_HT40	802.11ac_VHT40
Frequency		
5 190 MHz	36.29	35.98
5 230 MHz	35.50	35.14
5 755 MHz	35.78	35.41
5 795 MHz	35.67	35.99

Mode	802.11ac_VHT80
Frequency	
5 210 MHz	75.26
5 775 MHz	75.34

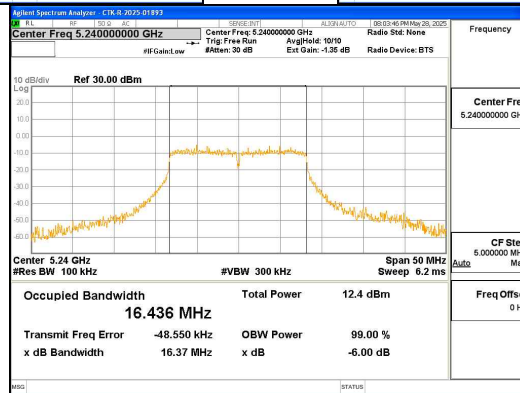
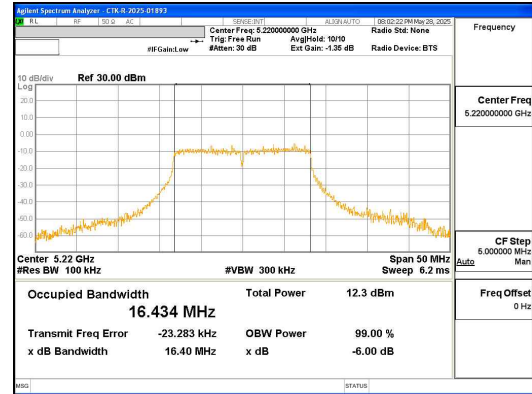
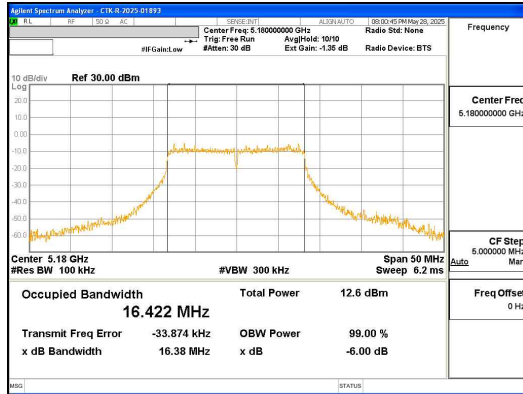
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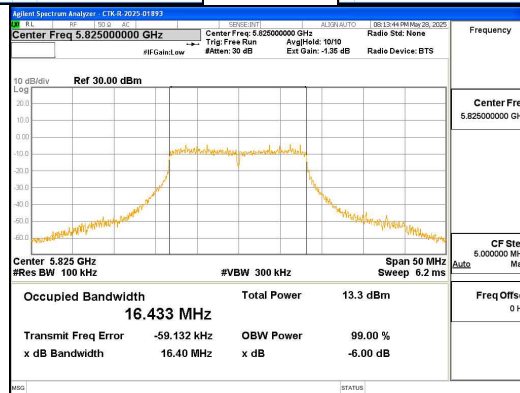
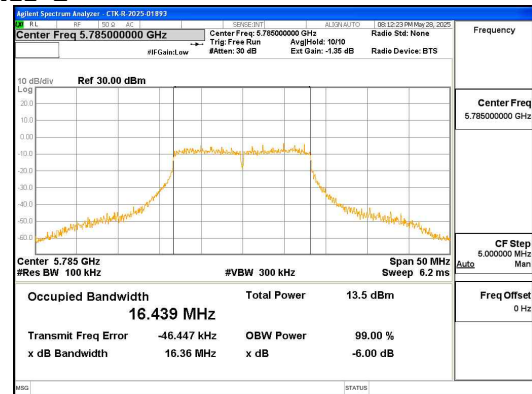
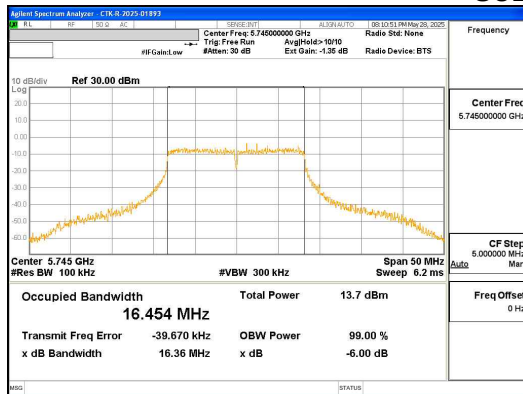
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802.11a_UNII-1



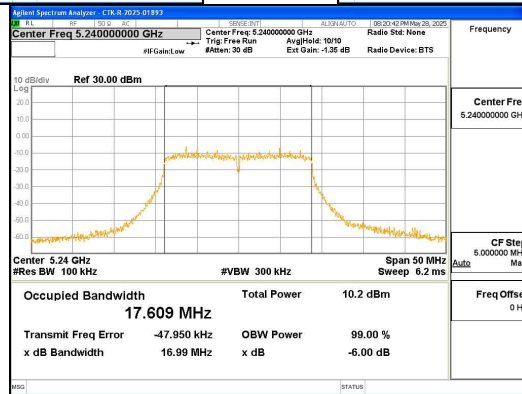
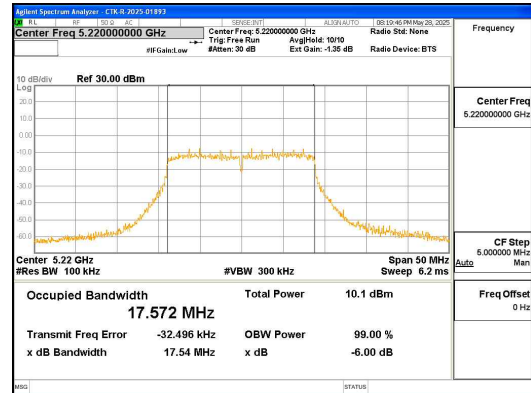
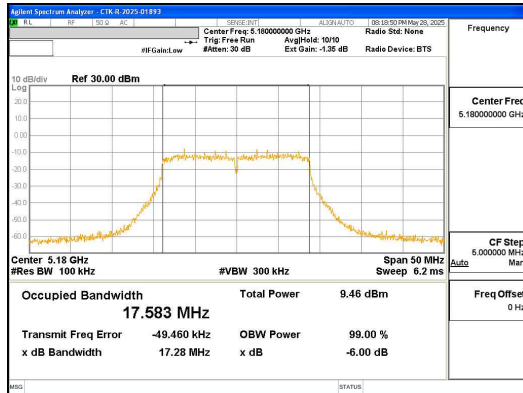
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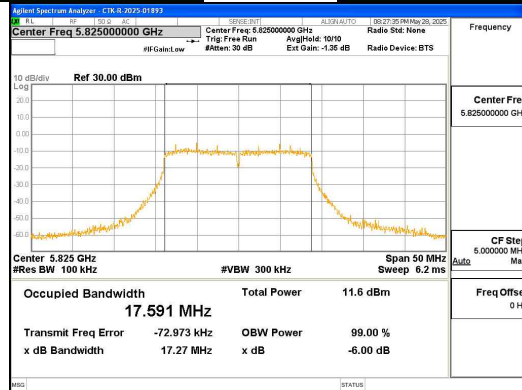
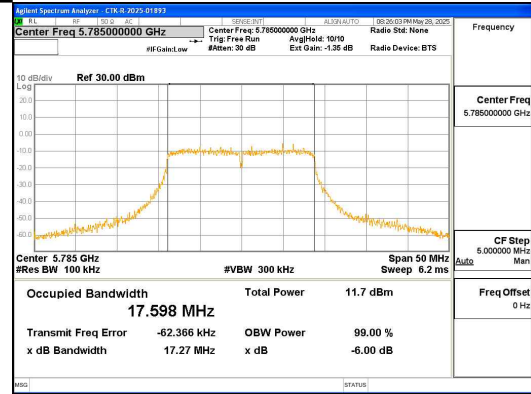
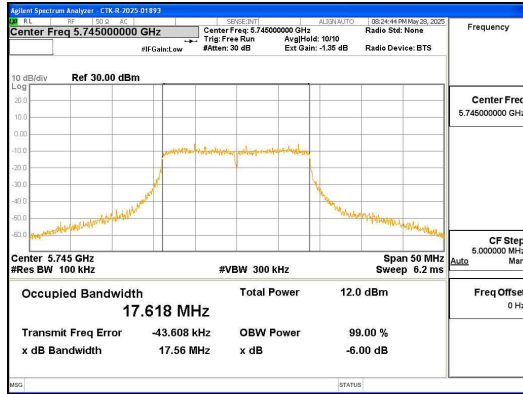
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802.11n_HT20_UNII-1



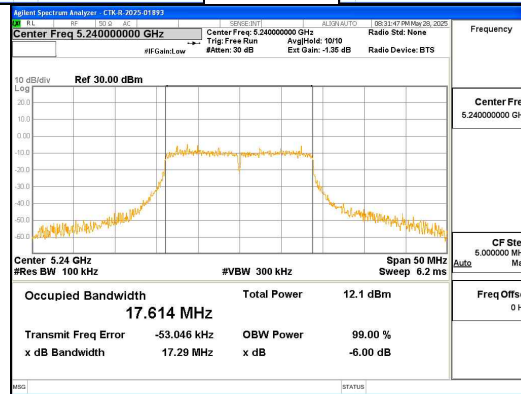
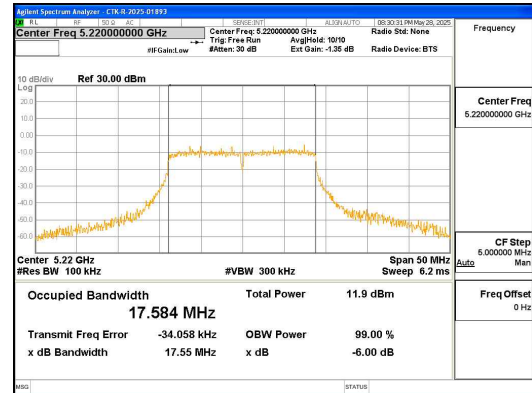
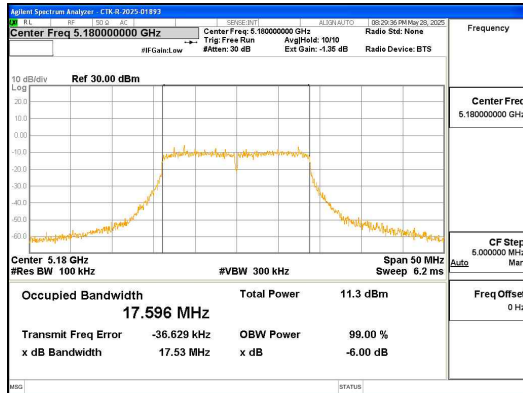
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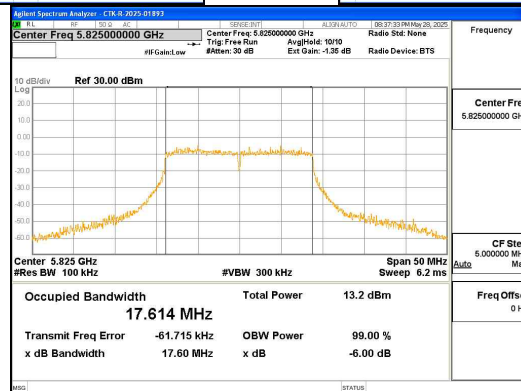
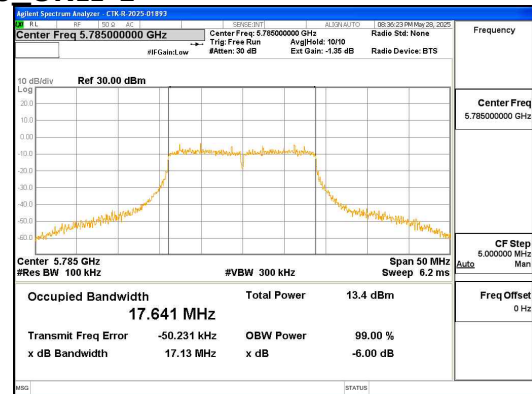
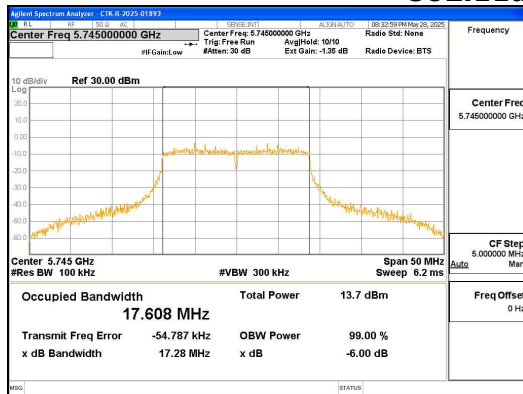
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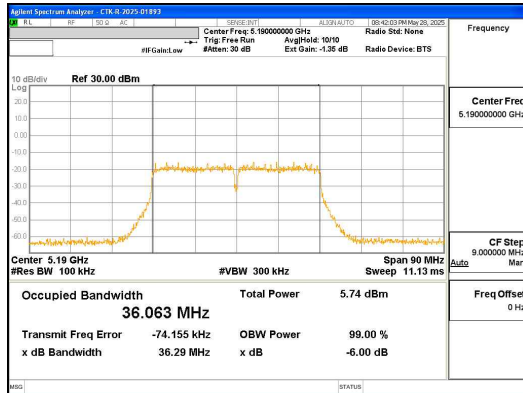
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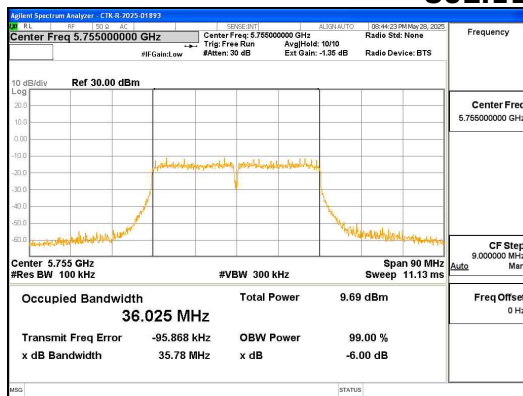
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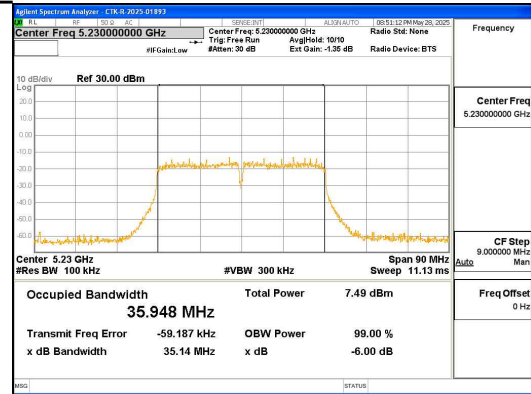
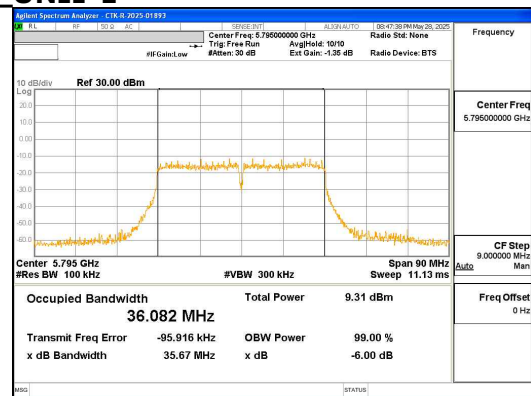
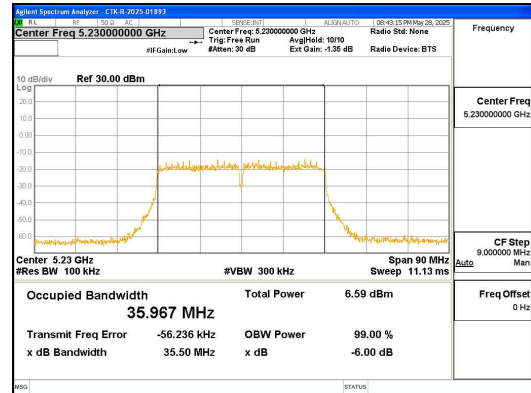
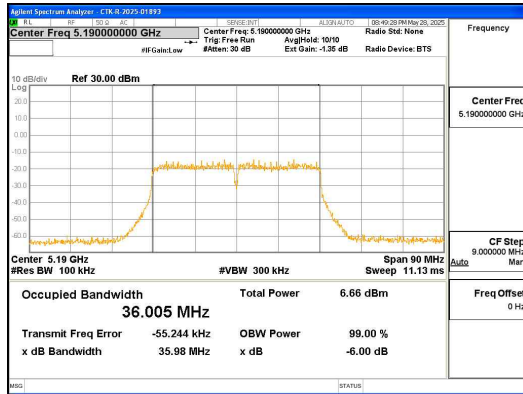
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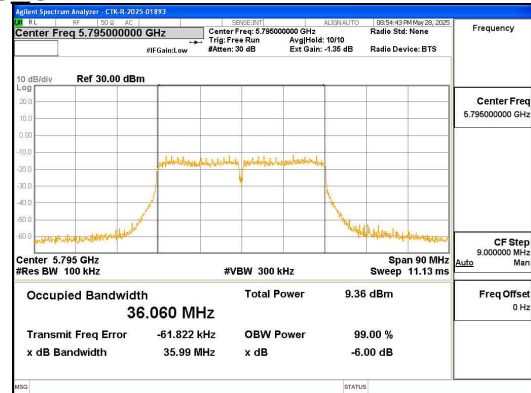
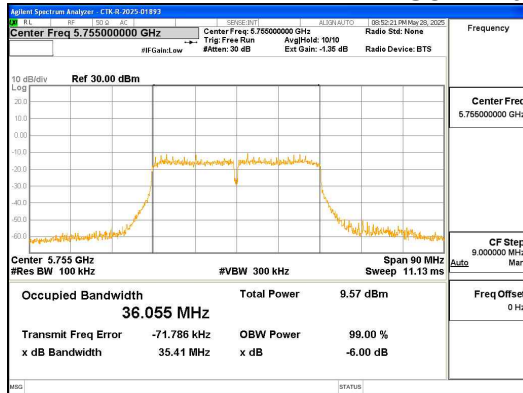
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802.11n_HT40_UNII-3



802.11ac_VHT40_UNII-1



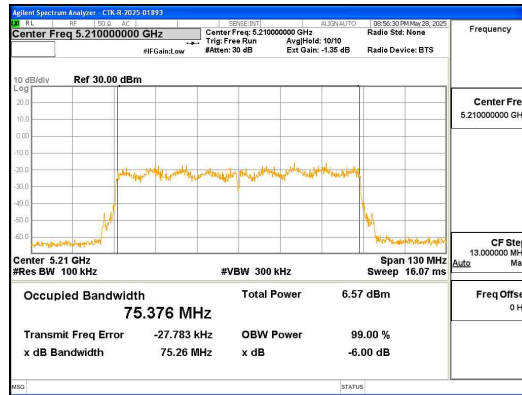
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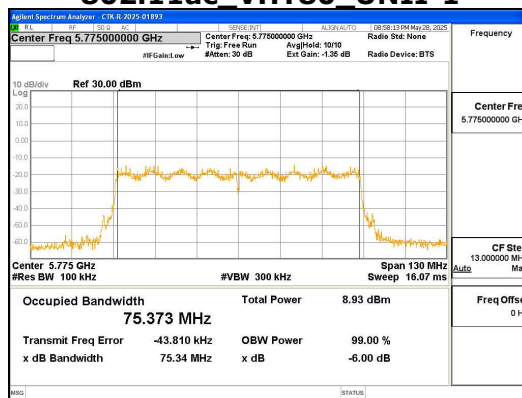
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4.2 26 dB Bandwidth and 99 % Bandwidth

Test Procedures

KDB 789033 – Section C.1
ANSI C63.10-2013 - Section 6.9.2
RSS-Gen – Section 6.7

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

Test Procedures

KDB 789033 – Section C.1
ANSI C63.10-2013 - Section 6.9.3
RSS-Gen – Section 6.7

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission.

Use the 99 % power bandwidth function of the instrument and report the measured bandwidth.

Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = approximately 1 % of the emission bandwidth
- b) VBW $\geq$ RBW
- c) Detector = peak
- d) Trace mode = Max hold
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

Minimum Standard:

NA

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Test Data:

Mode	802.11a		802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99 %	26 dB	99 %	26 dB	99 %
5 180 MHz	19.89	16.51	19.87	17.61	19.91	17.61
5 220 MHz	19.82	16.52	19.89	17.64	19.91	17.61
5 240 MHz	19.89	16.51	19.94	17.57	19.83	17.61
5 745 MHz	19.83	16.51	19.84	17.62	19.85	17.63
5 785 MHz	19.73	16.51	19.96	17.63	19.89	17.62
5 825 MHz	19.72	16.53	19.82	17.62	19.90	17.63

Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 190 MHz	39.68	36.17	39.20	35.99
5 230 MHz	39.92	36.10	39.87	36.06
5 755 MHz	39.88	36.15	39.53	36.18
5 795 MHz	39.25	36.06	39.61	36.05

Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 210 MHz	79.83	75.45
5 775 MHz	79.72	75.60

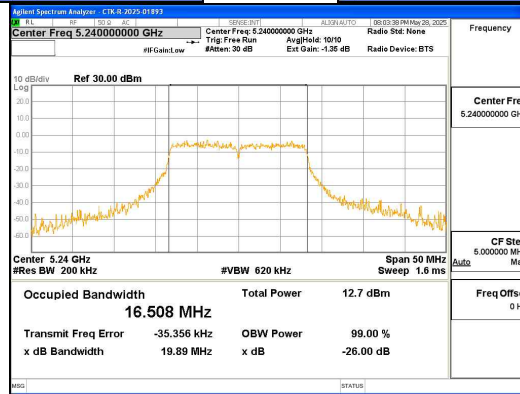
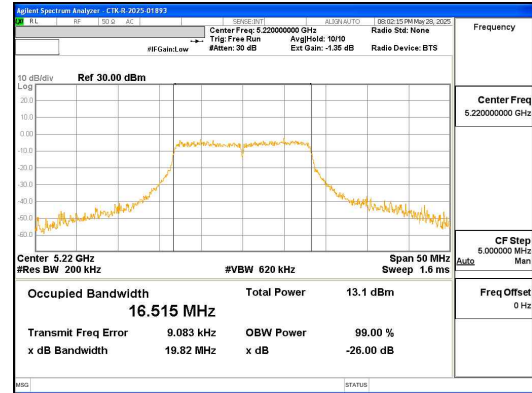
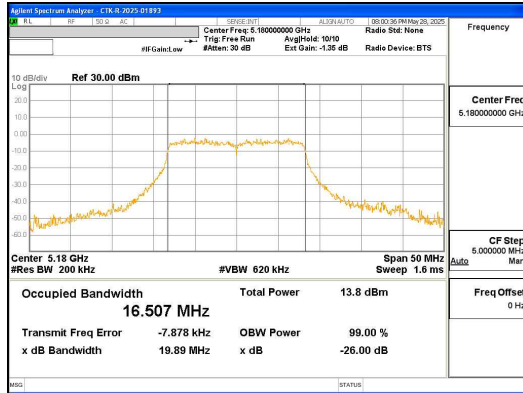
See next pages for actual measured spectrum plots.



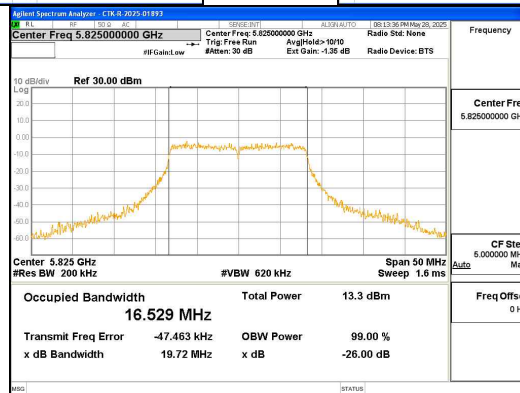
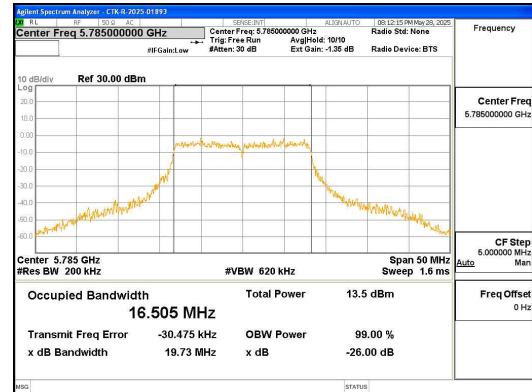
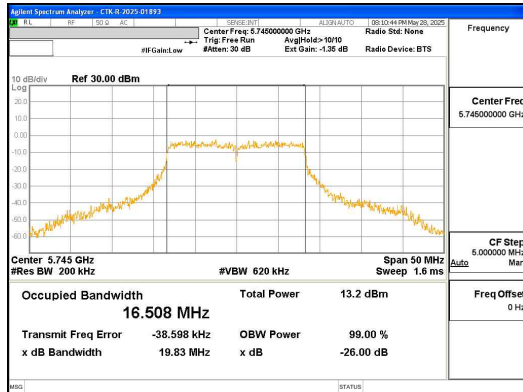
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802.11a_UNII-1



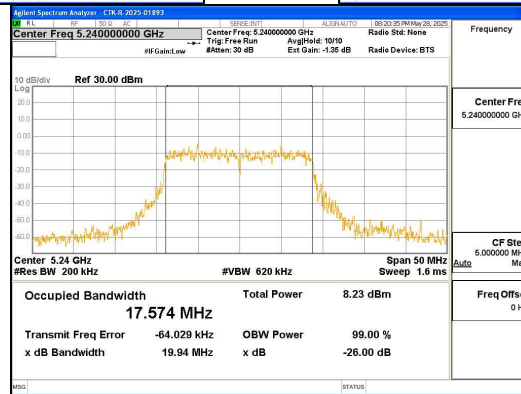
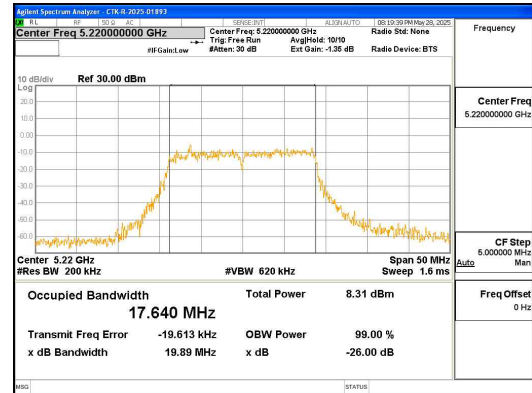
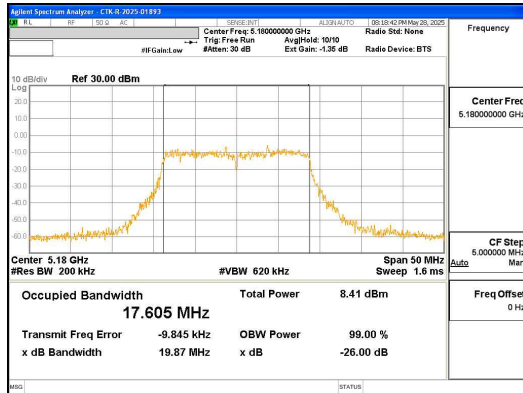
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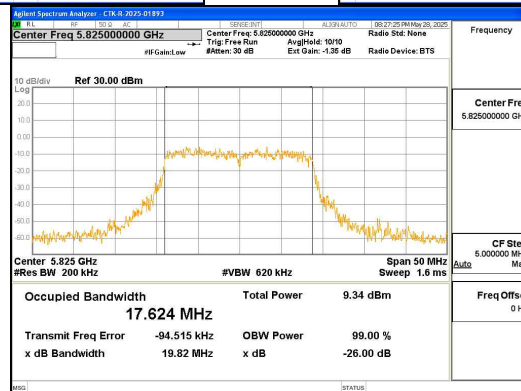
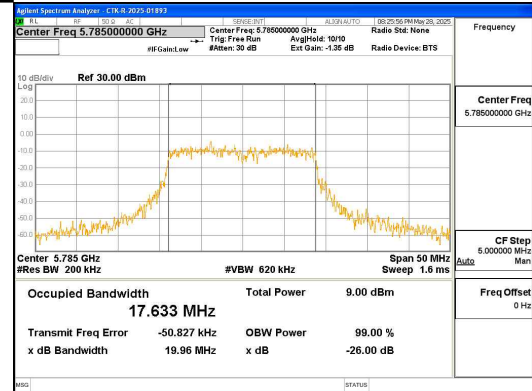
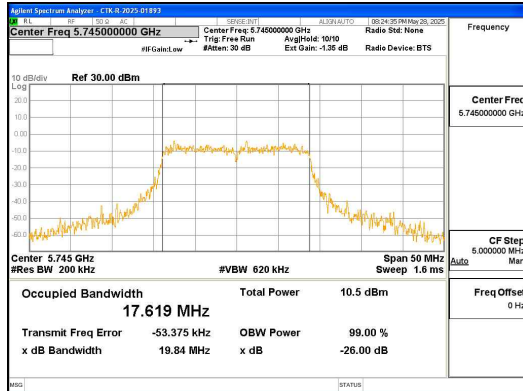
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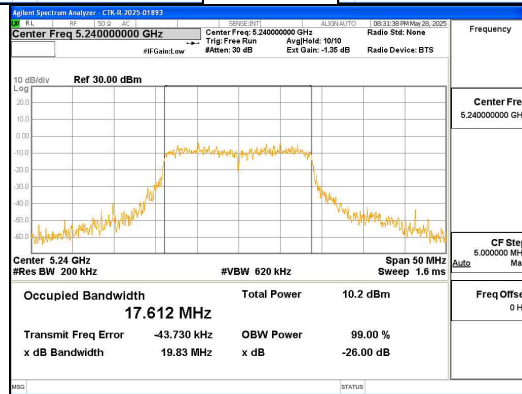
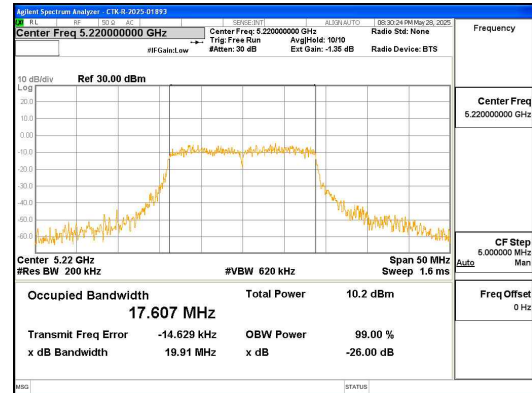
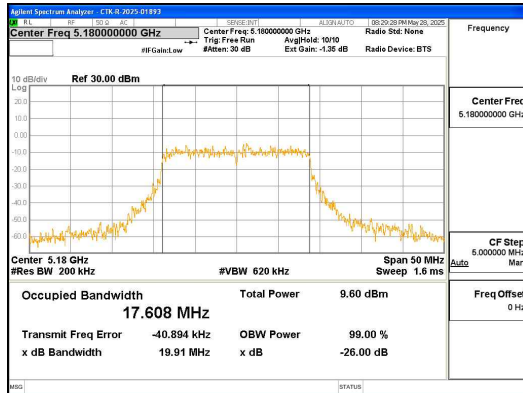
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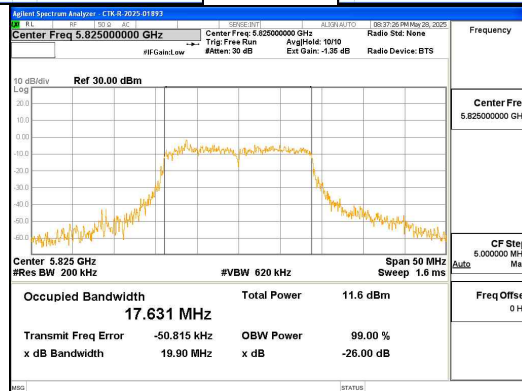
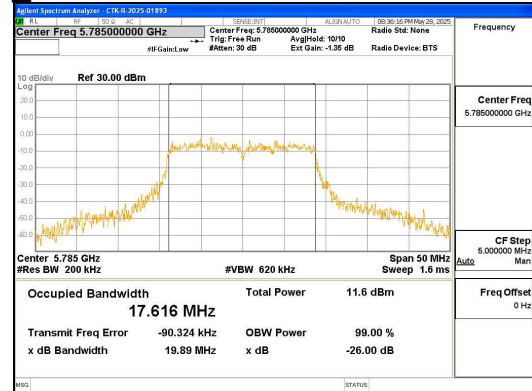
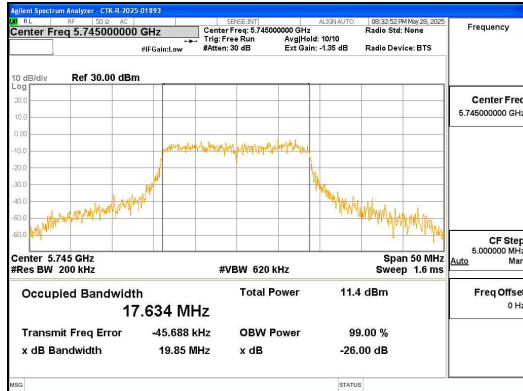
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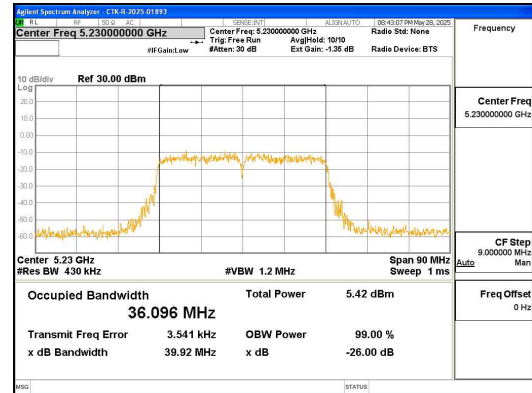
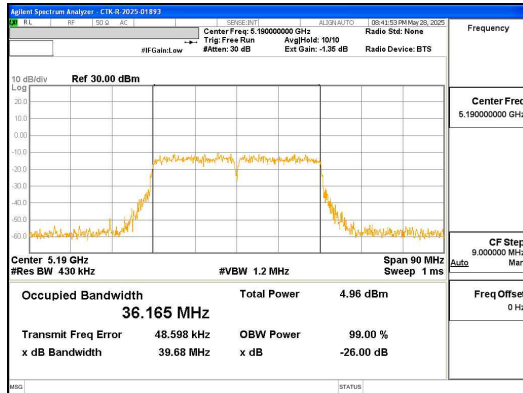
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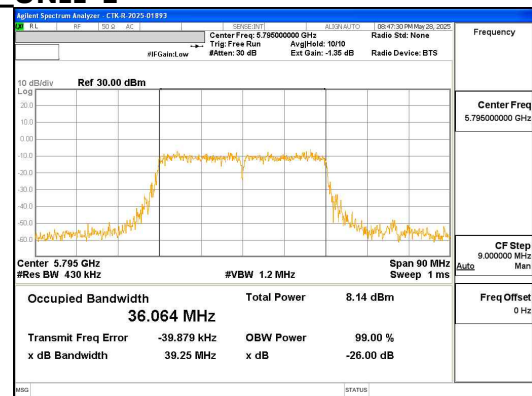
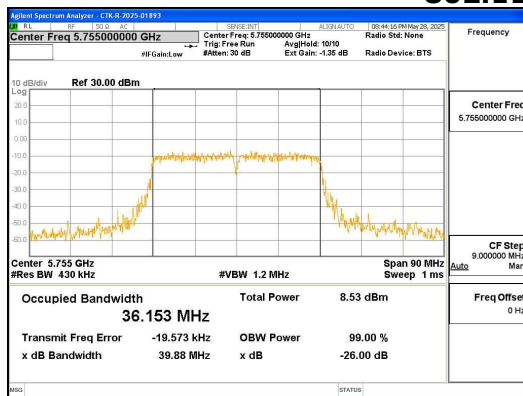
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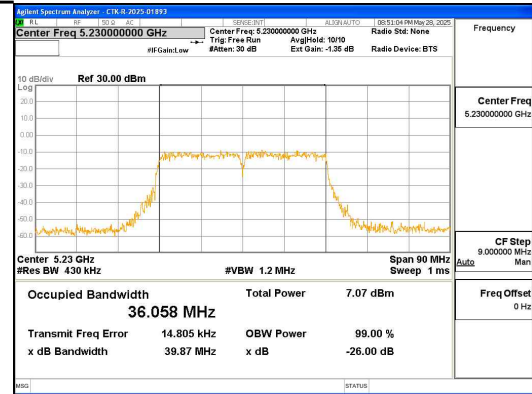
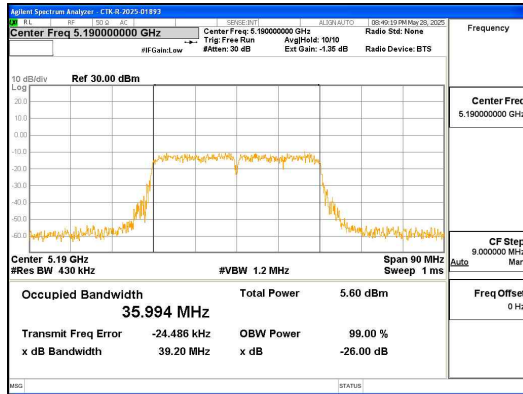
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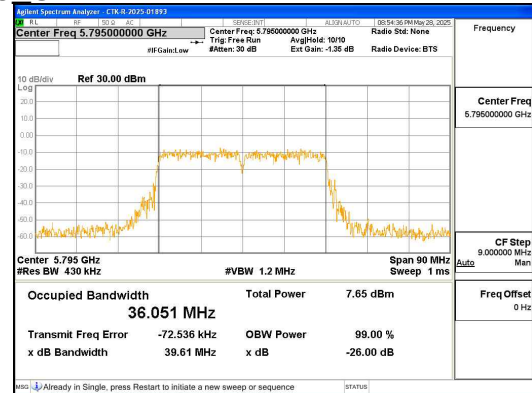
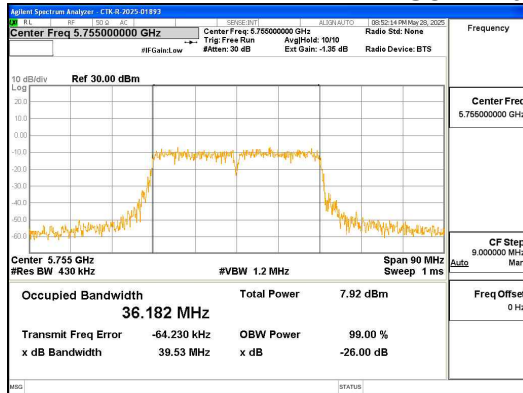
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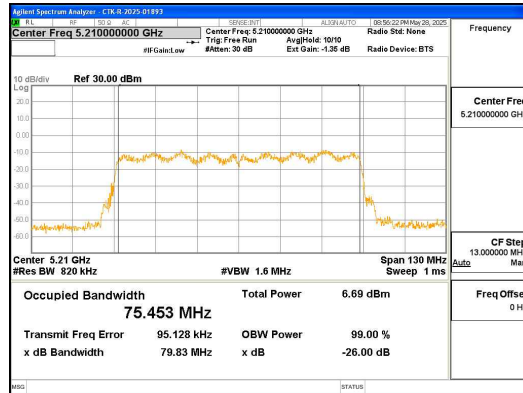
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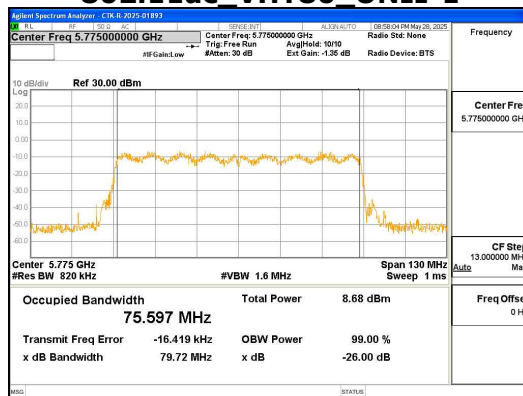
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