

# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3  
FCC ID: IR5ML15

## 3.7 Contention-Based Protocol (CBP)

According to §15.407(d)

All U-NII transmitters, except for standard power access points and fixed client devices, operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

Indoor access points, subordinate devices, all client devices (except for Fixed clients), and VLP devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) must use a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are technology-agnostic, unlicensed devices are required to detect co-channel radio frequency energy (energy detection) and avoid simultaneous transmission.

Unlicensed devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low-power indoor devices must vacate the channel (in which the incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

Test date: November 27, 2024-November 28, 2024

Temperature: 23.3 °C

Humidity: 54.6 %

Tester: Ken

## UNII 5

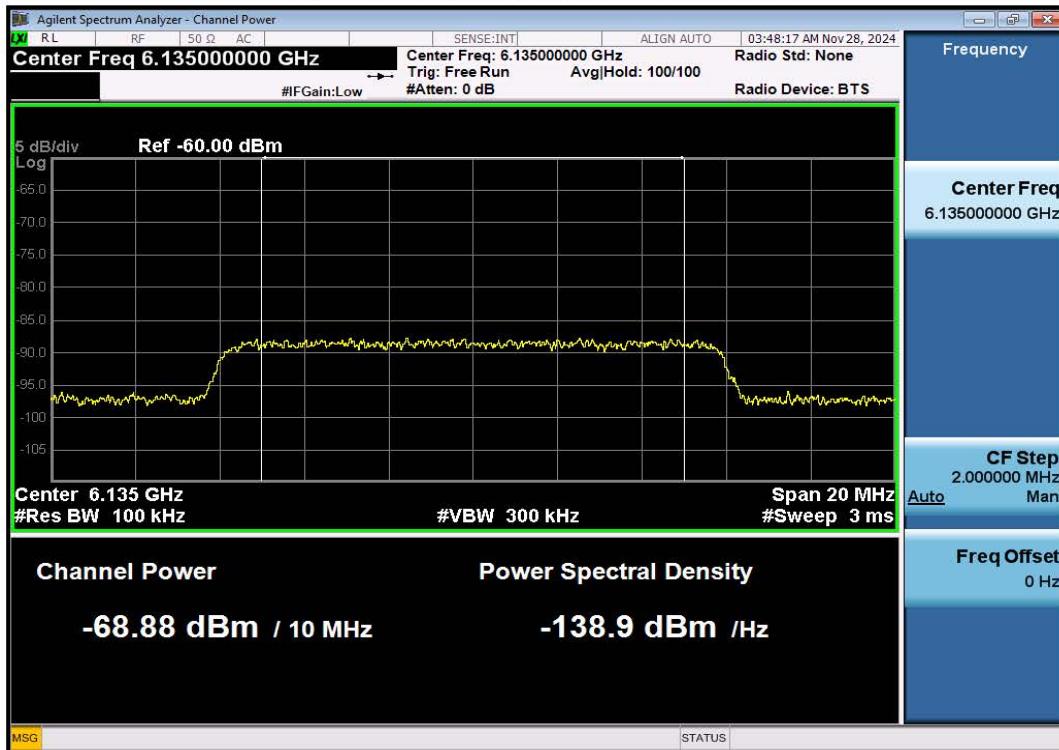
Band	Frequency (MHz)	BW (MHz)	Incumbent freq (MHz)	Measured Detection Level (dBm)	Detection Rate (%)	Regulated Threshold Level (dBm)	Detection Limit (dBm)
UNII 5	6135	20	6135	-68.88	100	-62	-65.36
					Result : Stop Transmission		
				-69.58	< 90	-62	-65.36
					Result : Start Transmission		
			6110	-70.35	100	-62	-65.36
					Result : Stop Transmission		
				-71.15	< 90	-62	-65.36
			6185		Result : Start Transmission		
			-66.53	100	-62	-65.36	
				Result : Stop Transmission			
			6260	-67.53	< 90	-62	-65.36
					Result : Start Transmission		
				-66.25	100	-62	-65.36
					Result : Stop Transmission		
				-67.19	< 90	-62	-65.36
					Result : Start Transmission		

Note: Detection Limit = -62 dBm (Regulated Threshold Level) + minimum antenna gain

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802.11ax (HE20) / 6135MHz

Measured Detection level = -68.88 dBm



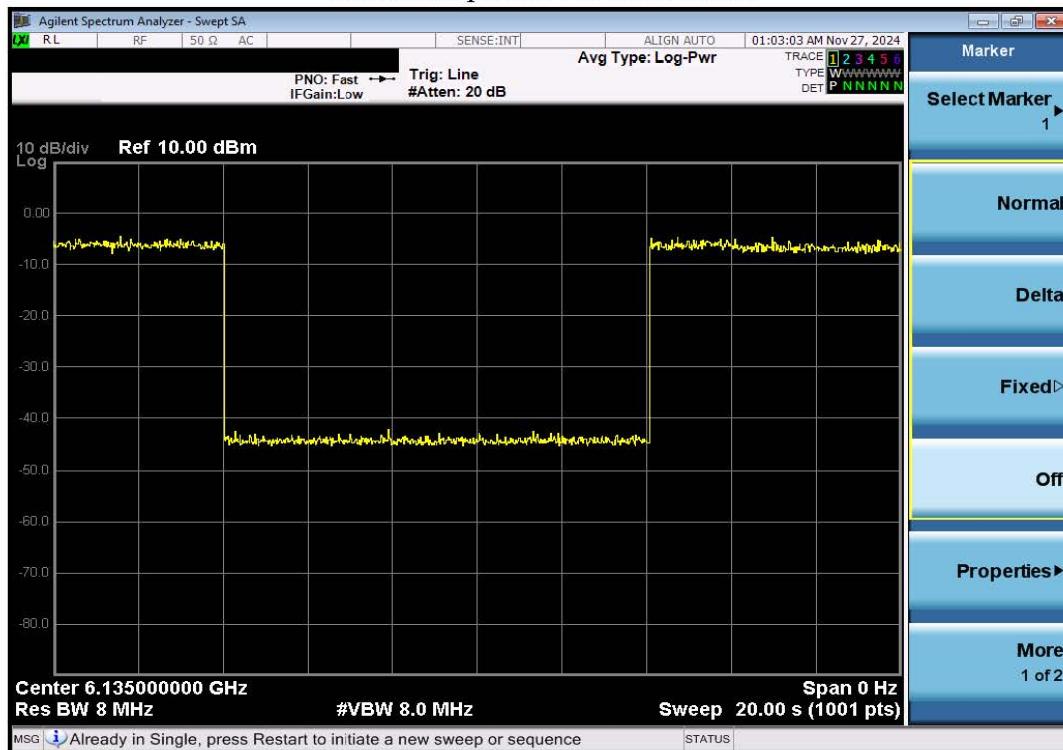
802.11ax (HE20) / 6135MHz

Measured Detection level = -69.58 dBm

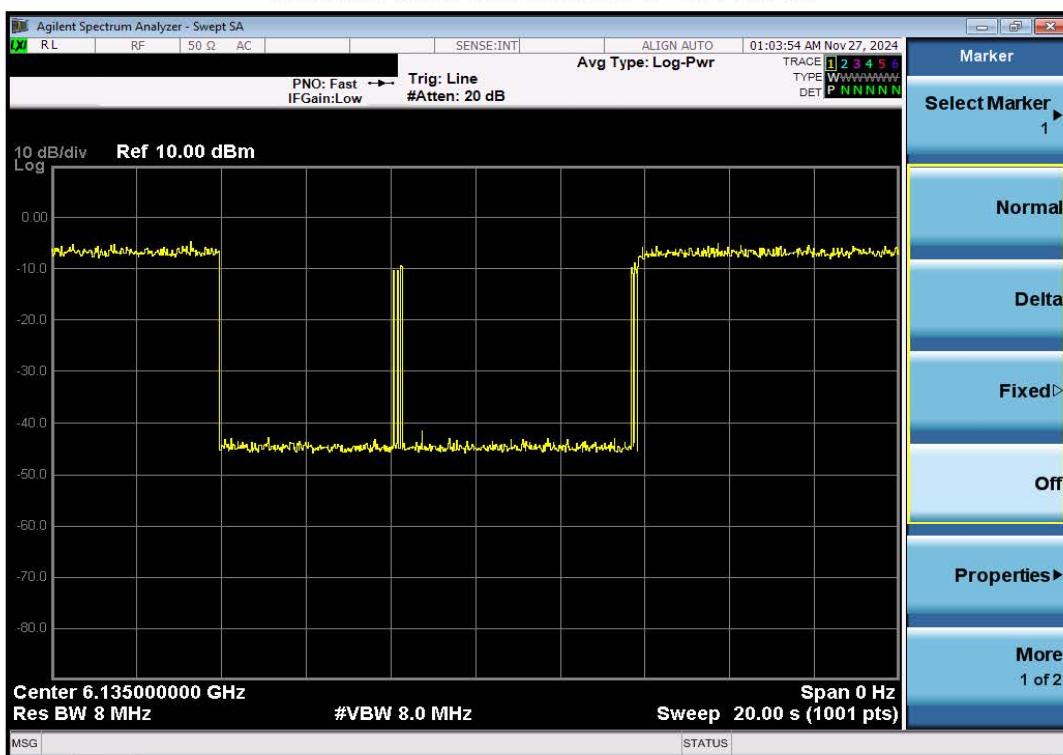


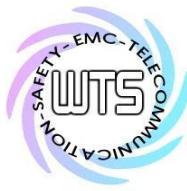
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802.11ax (HE20) / CH37  
 Test result pass is not transmitted



802.11ax (HE20) / CH37  
 Transmit when the interferer is 1dB lower.

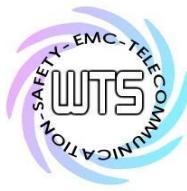




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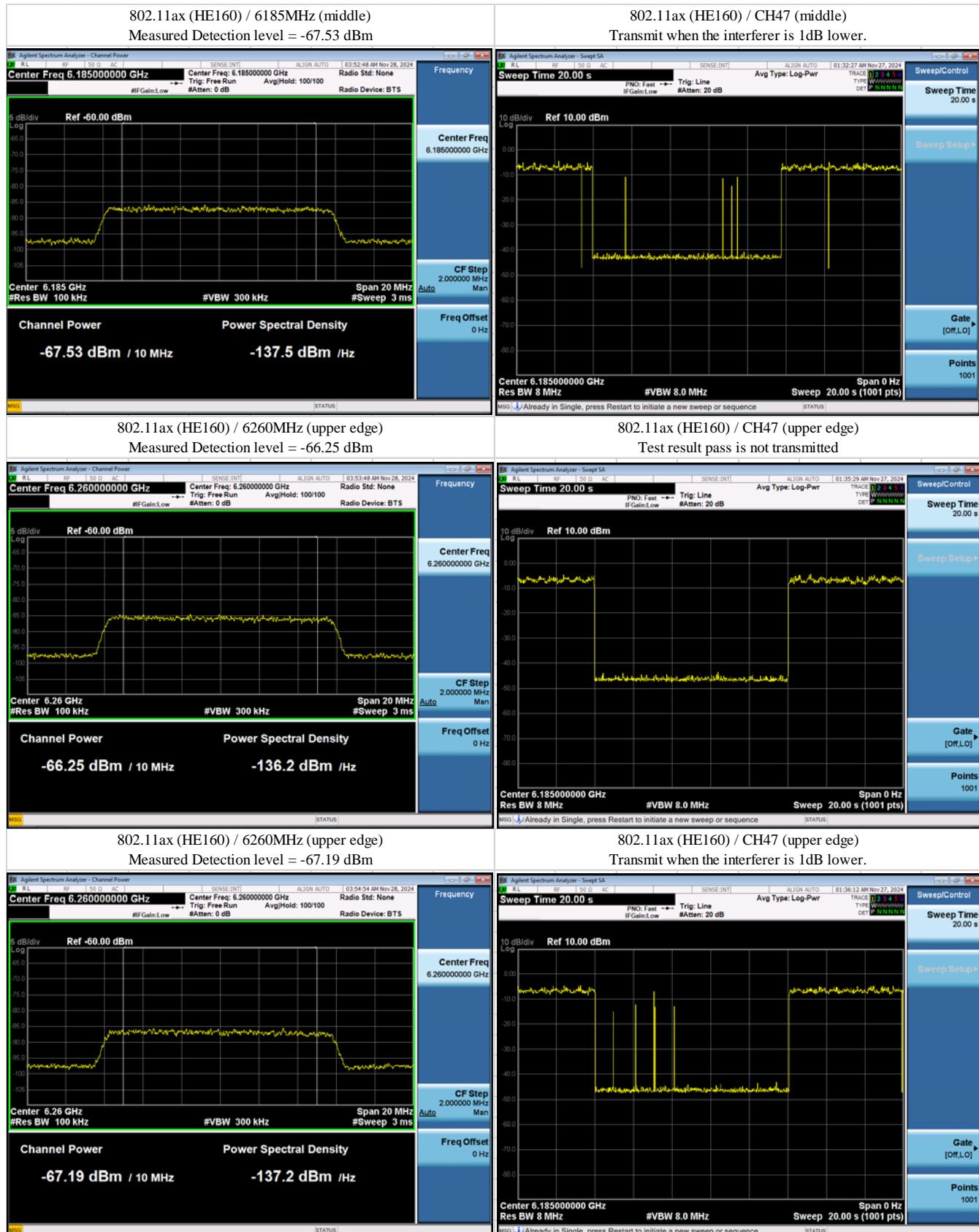
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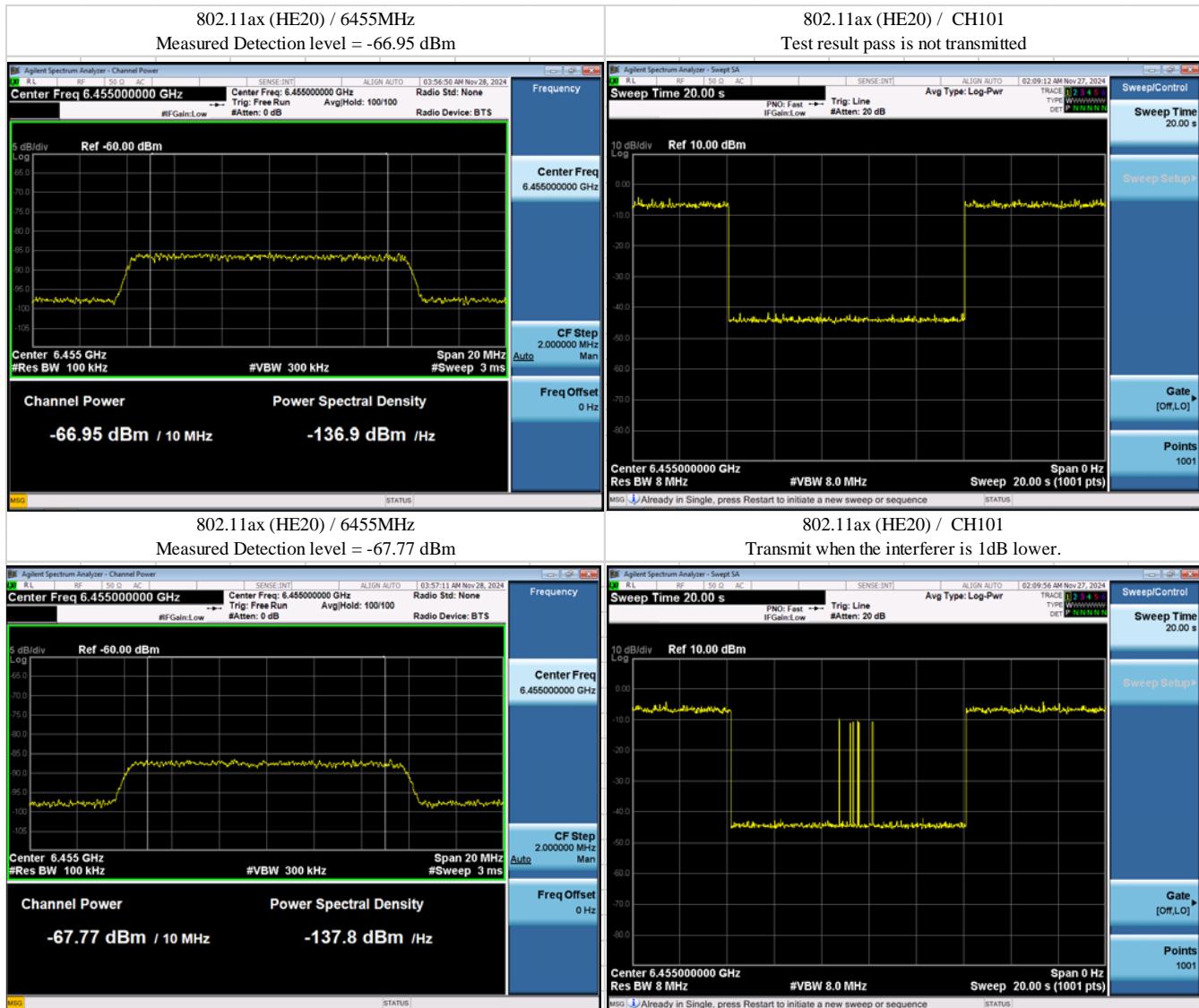
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## UNII 6

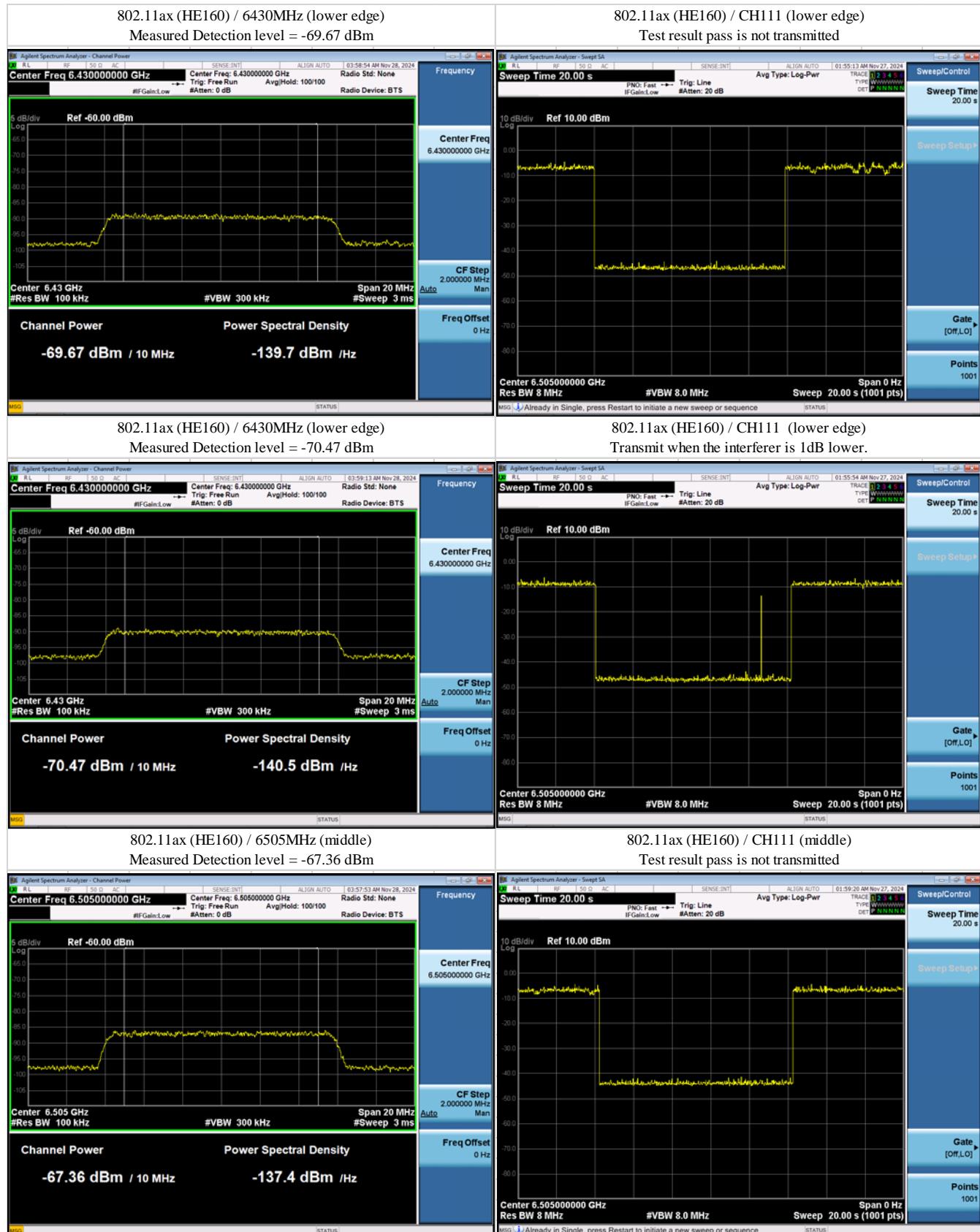
Band	Frequency (MHz)	BW (MHz)	Incumbent freq (MHz)	Measured Detection Level (dBm)	Detection Rate (%)	Regulated Threshold Level (dBm)	Detection Limit (dBm)
UNII 6	6455	20	6455	-66.95	100	-62	-65.36
					Result : Stop Transmission		
			6430	-67.77	< 90	-62	-65.36
					Result : Start Transmission		
	6505	160	6505	-69.67	100	-62	-65.36
					Result : Stop Transmission		
			6580	-70.47	< 90	-62	-65.36
					Result : Start Transmission		
			6505	-67.36	100	-62	-65.36
					Result : Stop Transmission		
			6580	-68.29	< 90	-62	-65.36
					Result : Start Transmission		
			6580	-67.66	100	-62	-65.36
					Result : Stop Transmission		
			6580	-68.52	< 90	-62	-65.36
					Result : Start Transmission		

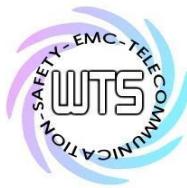
Note: Detection Limit = -62 dBm (Regulated Threshold Level) + minimum antenna gain

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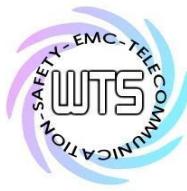




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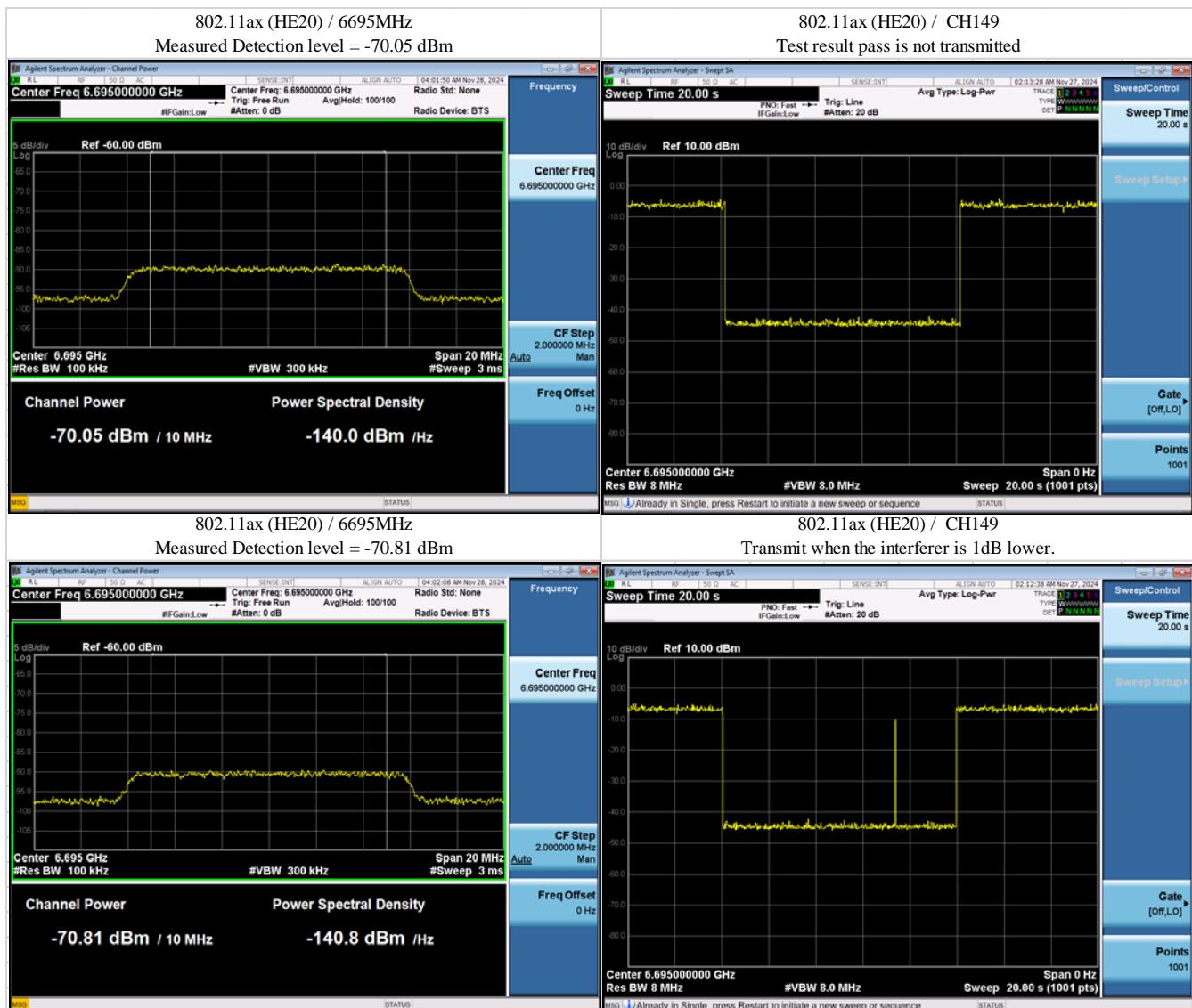
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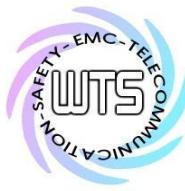
## UNII 7

Band	Frequency (MHz)	BW (MHz)	Incumbent freq (MHz)	Measured Detection Level (dBm)	Detection Rate (%)	Regulated Threshold Level (dBm)	Detection Limit (dBm)
UNII 7	6695	20	6695	-70.05	100	-62	-65.2
					Result : Stop Transmission		
	6590	160	6665	-70.81	< 90	-62	-65.2
					Result : Start Transmission		
	6665	160	6740	-70.49	100	-62	-65.2
					Result : Stop Transmission		
	6665	160	6740	-71.29	< 90	-62	-65.2
					Result : Start Transmission		
	6665	160	6740	-66.72	100	-62	-65.2
					Result : Stop Transmission		
	6665	160	6740	-67.5	< 90	-62	-65.2
					Result : Start Transmission		
	6665	160	6740	-66.17	100	-62	-65.2
					Result : Stop Transmission		
	6665	160	6740	-67.12	< 90	-62	-65.2
					Result : Start Transmission		

Note: Detection Limit = -62 dBm (Regulated Threshold Level) + minimum antenna gain

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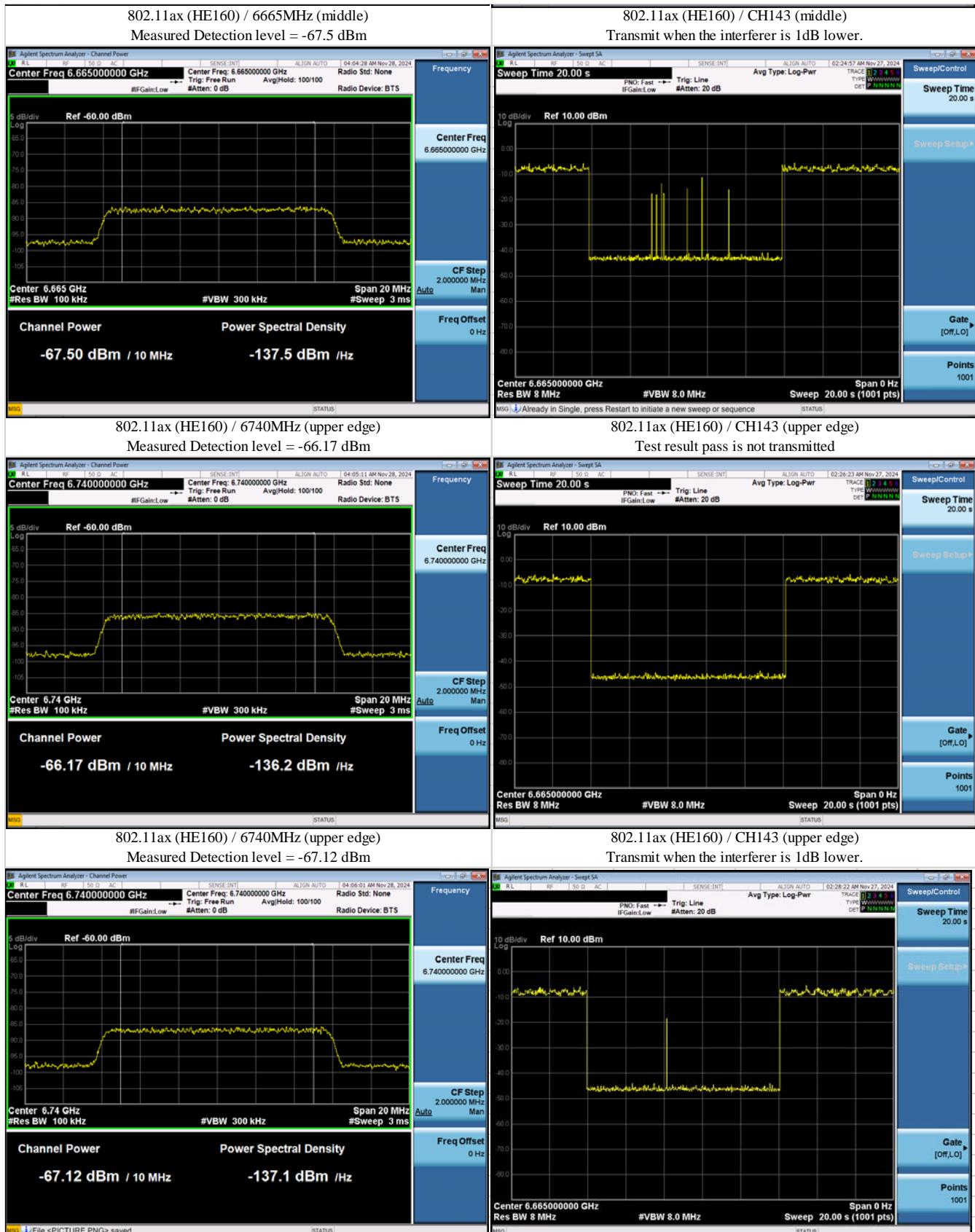


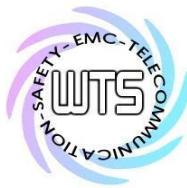
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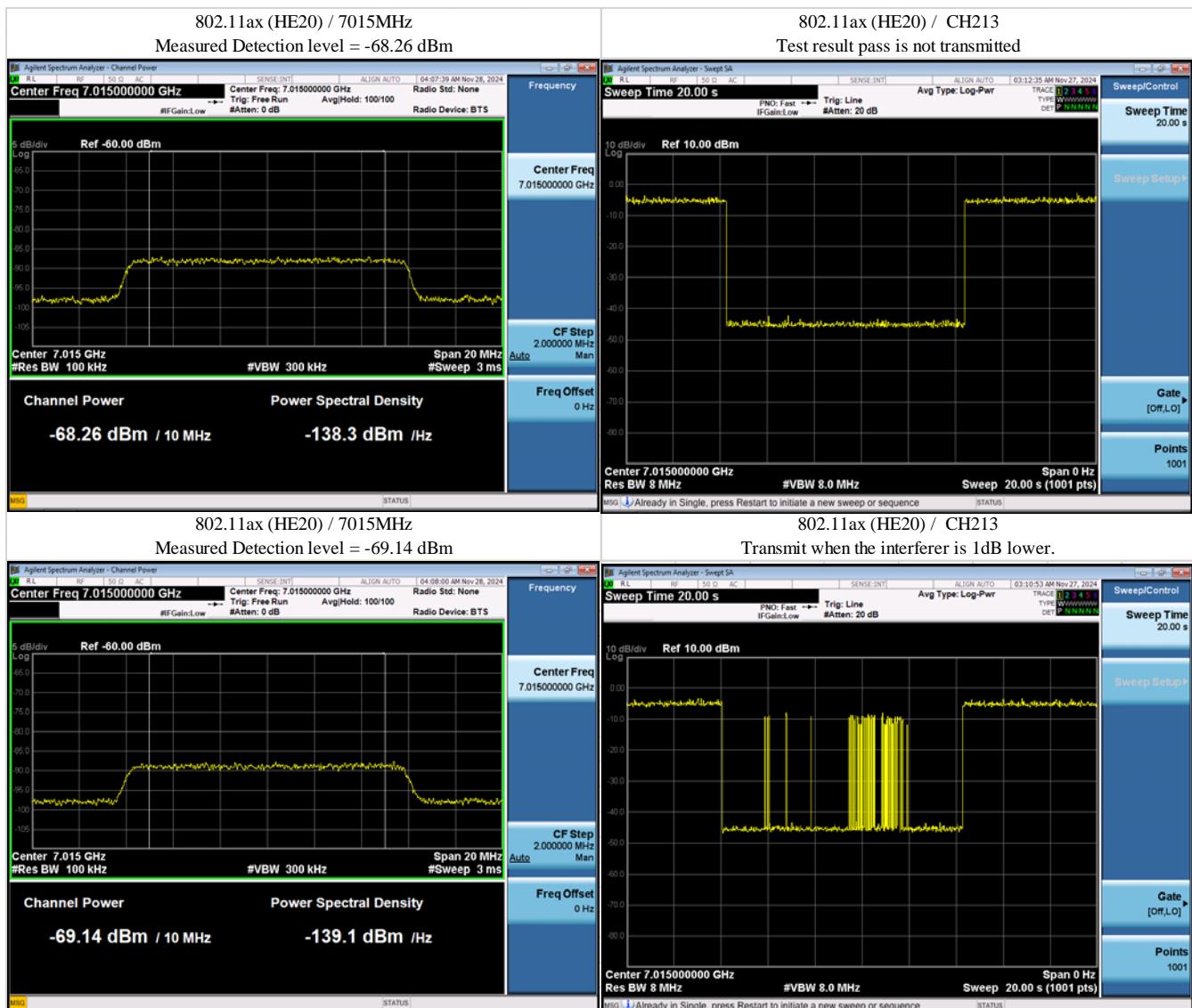
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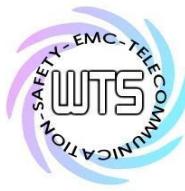
## UNII 8

Band	Frequency (MHz)	BW (MHz)	Incumbent freq (MHz)	Measured Detection Level (dBm)	Detection Rate (%)	Regulated Threshold Level (dBm)	Detection Limit (dBm)
UNII 8	7015	20	7015	-68.26	100	-62	-62.73
					Result : Stop Transmission		
				-69.14	< 90	-62	-62.73
					Result : Start Transmission		
	6985	160	6910	-69.33	100	-62	-62.73
					Result : Stop Transmission		
				-70.09	< 90	-62	-62.73
					Result : Start Transmission		
			6985	-63.12	100	-62	-62.73
					Result : Stop Transmission		
			7060	-64.1	< 90	-62	-62.73
					Result : Start Transmission		
			7060	-63.08	100	-62	-62.73
					Result : Stop Transmission		
				-64.08	< 90	-62	-62.73
					Result : Start Transmission		

Note: Detection Limit = -62 dBm (Regulated Threshold Level) + minimum antenna gain

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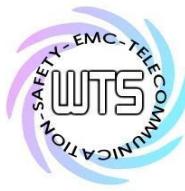
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Explanation: ./.



# Worldwide Testing Services(Taiwan) Co., Ltd.

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## **3.11 Radiated Emissions from Receiver Part**

FCC Rule: 15.109

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Field Strength (dBmicrovolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

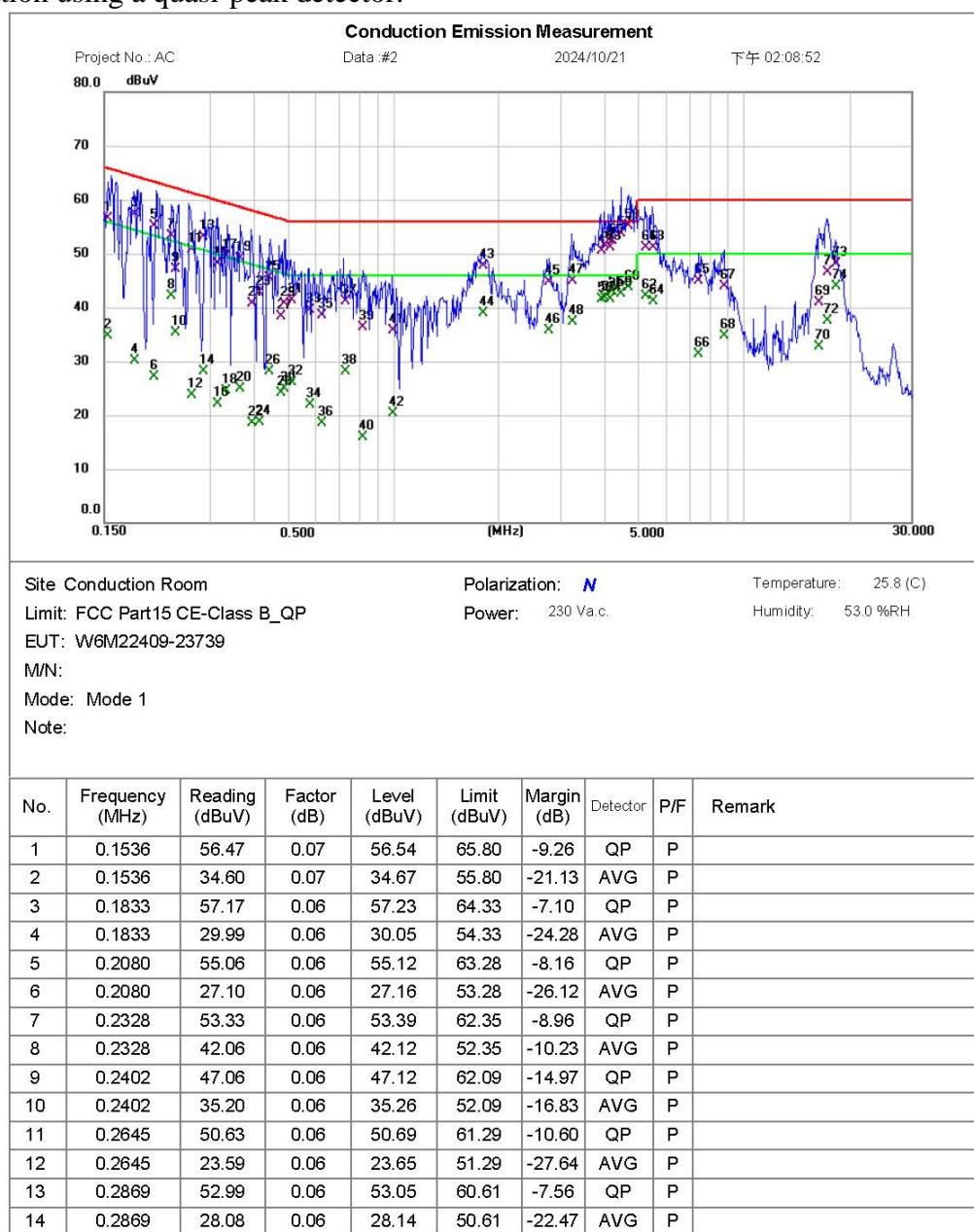
Explanation: The test results are listed in the separated test report no.: W6M22409-23739-P-15B.

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## 3.12 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.



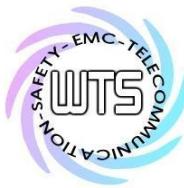


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Site Conduction Room      Polarization: **N**      Temperature: 25.8 (C)  
Limit: FCC Part15 CE-Class B\_QP      Power: 230 Va.c.      Humidity: 53.0 %RH  
EUT: W6M22409-23739  
M/N:  
Mode: Mode 1  
Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
15	0.3147	48.04	0.07	48.11	59.85	-11.74	QP	P	
16	0.3147	22.13	0.07	22.20	49.85	-27.65	AVG	P	
17	0.3334	49.34	0.07	49.41	59.37	-9.96	QP	P	
18	0.3334	24.36	0.07	24.43	49.37	-24.94	AVG	P	
19	0.3658	49.06	0.07	49.13	58.60	-9.47	QP	P	
20	0.3658	24.89	0.07	24.96	48.60	-23.64	AVG	P	
21	0.3936	40.68	0.07	40.75	57.99	-17.24	QP	P	
22	0.3936	18.36	0.07	18.43	47.99	-29.56	AVG	P	
23	0.4147	42.70	0.07	42.77	57.55	-14.78	QP	P	
24	0.4147	18.58	0.07	18.65	47.55	-28.90	AVG	P	
25	0.4428	45.35	0.07	45.42	57.01	-11.59	QP	P	
26	0.4428	28.05	0.07	28.12	47.01	-18.89	AVG	P	
27	0.4776	38.30	0.07	38.37	56.38	-18.01	QP	P	
28	0.4776	23.94	0.07	24.01	46.38	-22.37	AVG	P	
29	0.4875	40.68	0.07	40.75	56.21	-15.46	QP	P	
30	0.4875	24.77	0.07	24.84	46.21	-21.37	AVG	P	
31	0.5107	41.13	0.08	41.21	56.00	-14.79	QP	P	
32	0.5107	26.12	0.08	26.20	46.00	-19.80	AVG	P	
33	0.5768	39.38	0.08	39.46	56.00	-16.54	QP	P	
34	0.5768	21.77	0.08	21.85	46.00	-24.15	AVG	P	
35	0.6245	38.48	0.08	38.56	56.00	-17.44	QP	P	
36	0.6245	18.41	0.08	18.49	46.00	-27.51	AVG	P	
37	0.7276	41.03	0.09	41.12	56.00	-14.88	QP	P	
38	0.7276	28.09	0.09	28.18	46.00	-17.82	AVG	P	
39	0.8177	36.27	0.09	36.36	56.00	-19.64	QP	P	
40	0.8177	15.90	0.09	15.99	46.00	-30.01	AVG	P	
41	0.9984	35.56	0.10	35.66	56.00	-20.34	QP	P	
42	0.9984	20.23	0.10	20.33	46.00	-25.67	AVG	P	
43	1.8031	47.67	0.12	47.79	56.00	-8.21	QP	P	
44	1.8031	38.77	0.12	38.89	46.00	-7.11	AVG	P	
45	2.7708	44.56	0.14	44.70	56.00	-11.30	QP	P	
46	2.7708	35.47	0.14	35.61	46.00	-10.39	AVG	P	
47	3.2343	44.84	0.14	44.98	56.00	-11.02	QP	P	
48	3.2343	37.21	0.14	37.35	46.00	-8.65	AVG	P	
49	3.9150	50.39	0.16	50.55	56.00	-5.45	QP	P	
50	3.9150	41.41	0.16	41.57	46.00	-4.43	AVG	P	



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FCC ID: IR5ML15

Site Conduction Room  
Limit: FCC Part15 CE-Class B\_QP  
EUT: W6M22409-23739  
M/N:  
Mode: Mode 1  
Note:

Polarization: **N**  
Power: 230 Va.c.

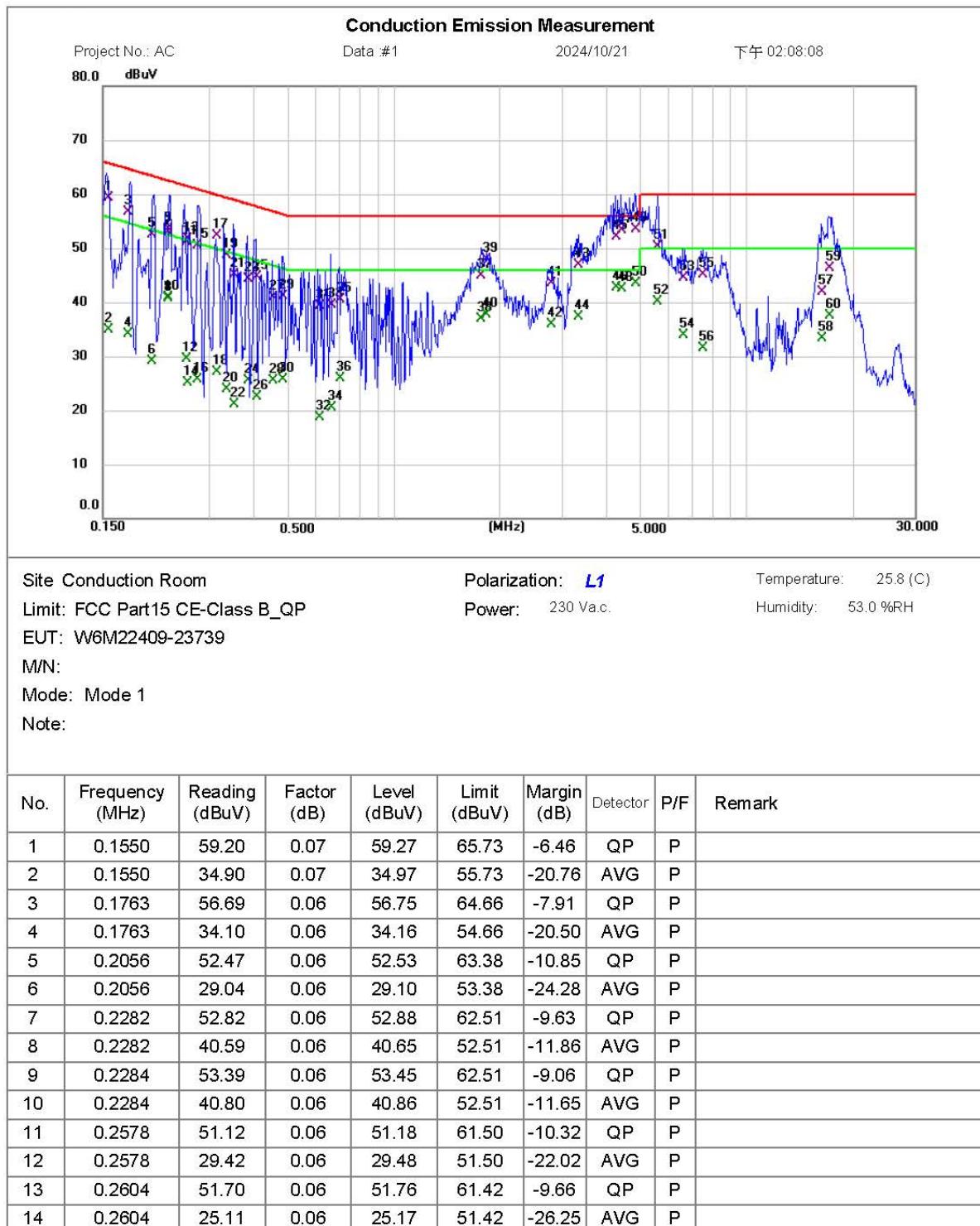
Temperature: 25.8 (C)  
Humidity: 53.0 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
51	3.9923	51.37	0.16	51.53	56.00	-4.47	QP	P	
52	3.9923	41.56	0.16	41.72	46.00	-4.28	AVG	P	
53	4.1541	50.96	0.16	51.12	56.00	-4.88	QP	P	
54	4.1541	41.43	0.16	41.59	46.00	-4.41	AVG	P	
55	4.2105	52.12	0.16	52.28	56.00	-3.72	QP	P	
56	4.2105	42.66	0.16	42.82	46.00	-3.18	AVG	P	
57	4.4537	53.52	0.16	53.68	56.00	-2.32	QP	P	
58	4.4537	42.27	0.16	42.43	46.00	-3.57	AVG	P	
59 *	4.6847	55.01	0.17	55.18	56.00	-0.82	QP	P	
60	4.6847	43.48	0.17	43.65	46.00	-2.35	AVG	P	
61	5.2303	51.00	0.17	51.17	60.00	-8.83	QP	P	
62	5.2303	41.84	0.17	42.01	50.00	-7.99	AVG	P	
63	5.4873	51.02	0.18	51.20	60.00	-8.80	QP	P	
64	5.4873	40.89	0.18	41.07	50.00	-8.93	AVG	P	
65	7.3893	44.71	0.23	44.94	60.00	-15.06	QP	P	
66	7.3893	31.00	0.23	31.23	50.00	-18.77	AVG	P	
67	8.7557	43.65	0.26	43.91	60.00	-16.09	QP	P	
68	8.7557	34.35	0.26	34.61	50.00	-15.39	AVG	P	
69	16.3785	40.47	0.39	40.86	60.00	-19.14	QP	P	
70	16.3785	32.27	0.39	32.66	50.00	-17.34	AVG	P	
71	17.1997	46.04	0.40	46.44	60.00	-13.56	QP	P	
72	17.1997	37.12	0.40	37.52	50.00	-12.48	AVG	P	
73	18.2407	47.63	0.41	48.04	60.00	-11.96	QP	P	
74	18.2407	43.50	0.41	43.91	50.00	-6.09	AVG	P	



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FCC ID: IR5ML15

Site Conduction Room  
Limit: FCC Part15 CE-Class B\_QP  
EUT: W6M22409-23739  
M/N:  
Mode: Mode 1  
Note:

Polarization: **L1**  
Power: 230 Va.c.  
Temperature: 25.8 (C)  
Humidity: 53.0 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
15	0.2776	50.38	0.06	50.44	60.89	-10.45	QP	P	
16	0.2776	25.62	0.06	25.68	50.89	-25.21	AVG	P	
17	0.3143	52.20	0.07	52.27	59.86	-7.59	QP	P	
18	0.3143	26.97	0.07	27.04	49.86	-22.82	AVG	P	
19	0.3342	48.66	0.07	48.73	59.35	-10.62	QP	P	
20	0.3342	23.76	0.07	23.83	49.35	-25.52	AVG	P	
21	0.3530	45.06	0.07	45.13	58.89	-13.76	QP	P	
22	0.3530	20.98	0.07	21.05	48.89	-27.84	AVG	P	
23	0.3853	44.19	0.07	44.26	58.16	-13.90	QP	P	
24	0.3853	25.36	0.07	25.43	48.16	-22.73	AVG	P	
25	0.4101	44.69	0.07	44.76	57.65	-12.89	QP	P	
26	0.4101	22.50	0.07	22.57	47.65	-25.08	AVG	P	
27	0.4555	40.81	0.07	40.88	56.77	-15.89	QP	P	
28	0.4555	25.41	0.07	25.48	46.77	-21.29	AVG	P	
29	0.4863	41.10	0.07	41.17	56.23	-15.06	QP	P	
30	0.4863	25.64	0.07	25.71	46.23	-20.52	AVG	P	
31	0.6147	39.21	0.08	39.29	56.00	-16.71	QP	P	
32	0.6147	18.55	0.08	18.63	46.00	-27.37	AVG	P	
33	0.6683	39.46	0.08	39.54	56.00	-16.46	QP	P	
34	0.6683	20.39	0.08	20.47	46.00	-25.53	AVG	P	
35	0.7039	40.44	0.09	40.53	56.00	-15.47	QP	P	
36	0.7039	25.81	0.09	25.90	46.00	-20.10	AVG	P	
37	1.7661	44.84	0.11	44.95	56.00	-11.05	QP	P	
38	1.7661	36.88	0.11	36.99	46.00	-9.01	AVG	P	
39	1.8295	47.88	0.11	47.99	56.00	-8.01	QP	P	
40	1.8295	37.61	0.11	37.72	46.00	-8.28	AVG	P	
41	2.8079	43.41	0.13	43.54	56.00	-12.46	QP	P	
42	2.8079	35.77	0.13	35.90	46.00	-10.10	AVG	P	
43	3.3442	46.83	0.14	46.97	56.00	-9.03	QP	P	
44	3.3442	37.12	0.14	37.26	46.00	-8.74	AVG	P	
45	4.2609	51.92	0.15	52.07	56.00	-3.93	QP	P	
46	4.2609	42.48	0.15	42.63	46.00	-3.37	AVG	P	
47	4.4268	53.21	0.15	53.36	56.00	-2.64	QP	P	
48	4.4268	42.41	0.15	42.56	46.00	-3.44	AVG	P	
49	4.8389	53.40	0.16	53.56	56.00	-2.44	QP	P	
50 *	4.8389	43.41	0.16	43.57	46.00	-2.43	AVG	P	