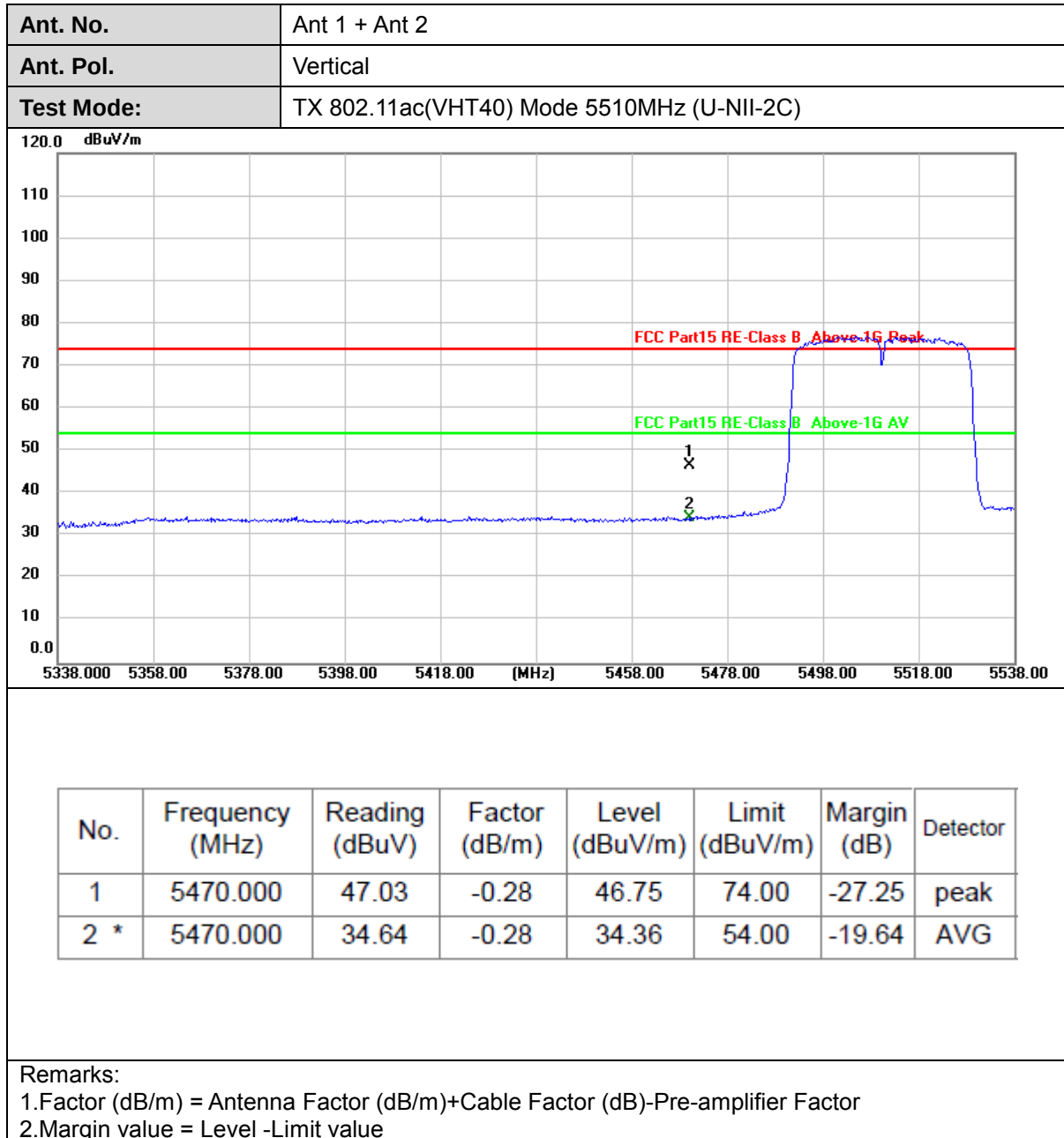
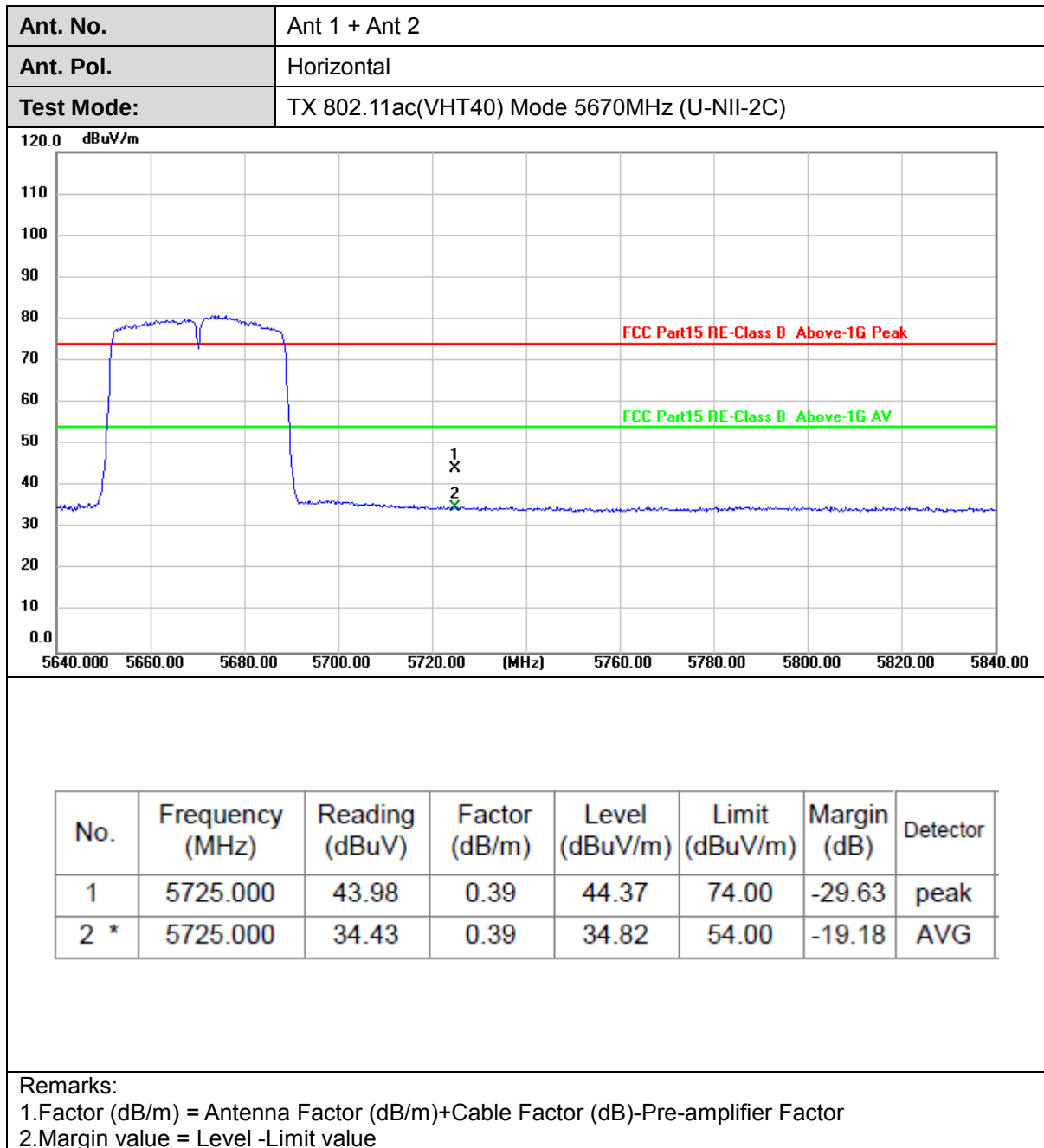
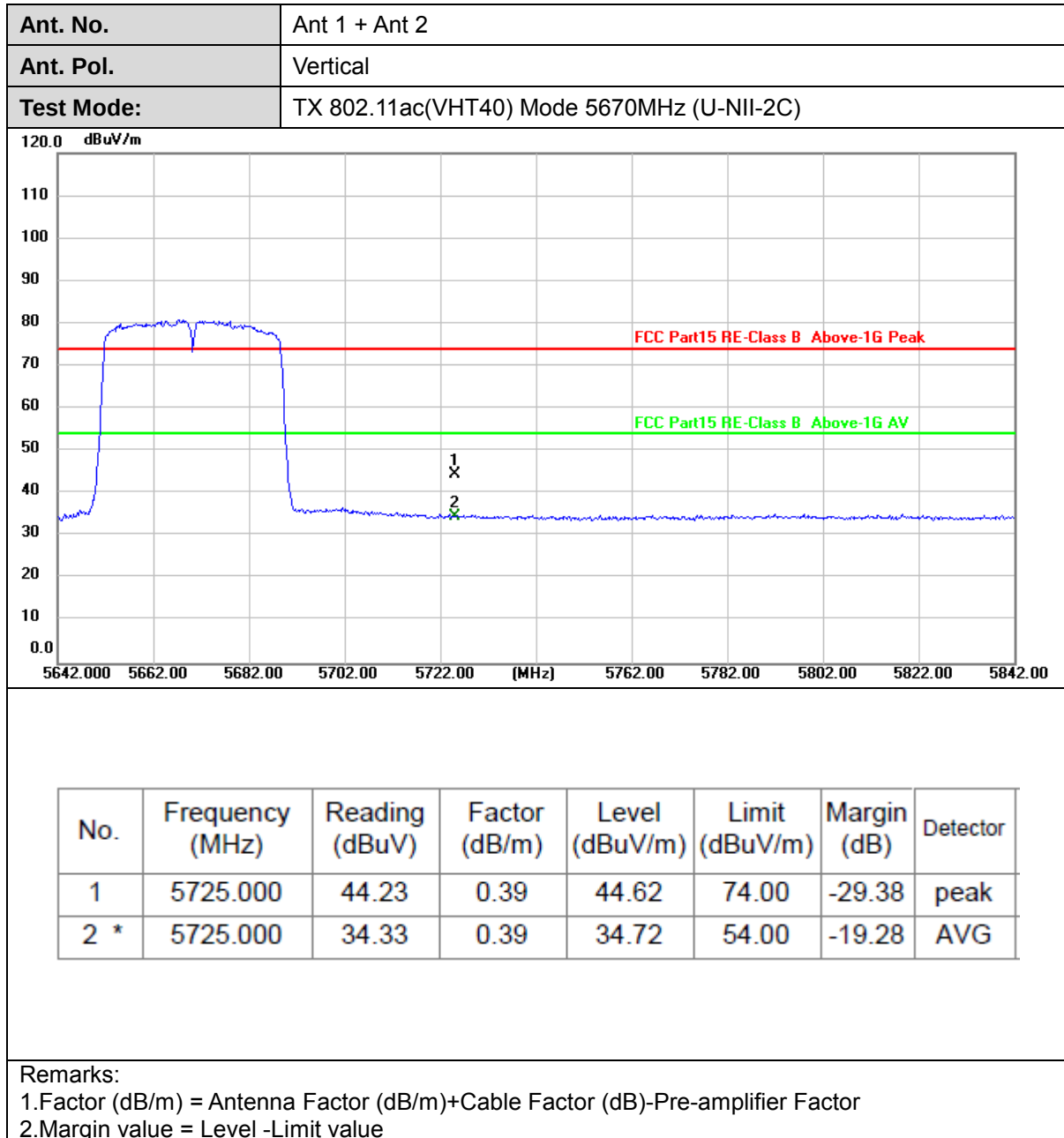
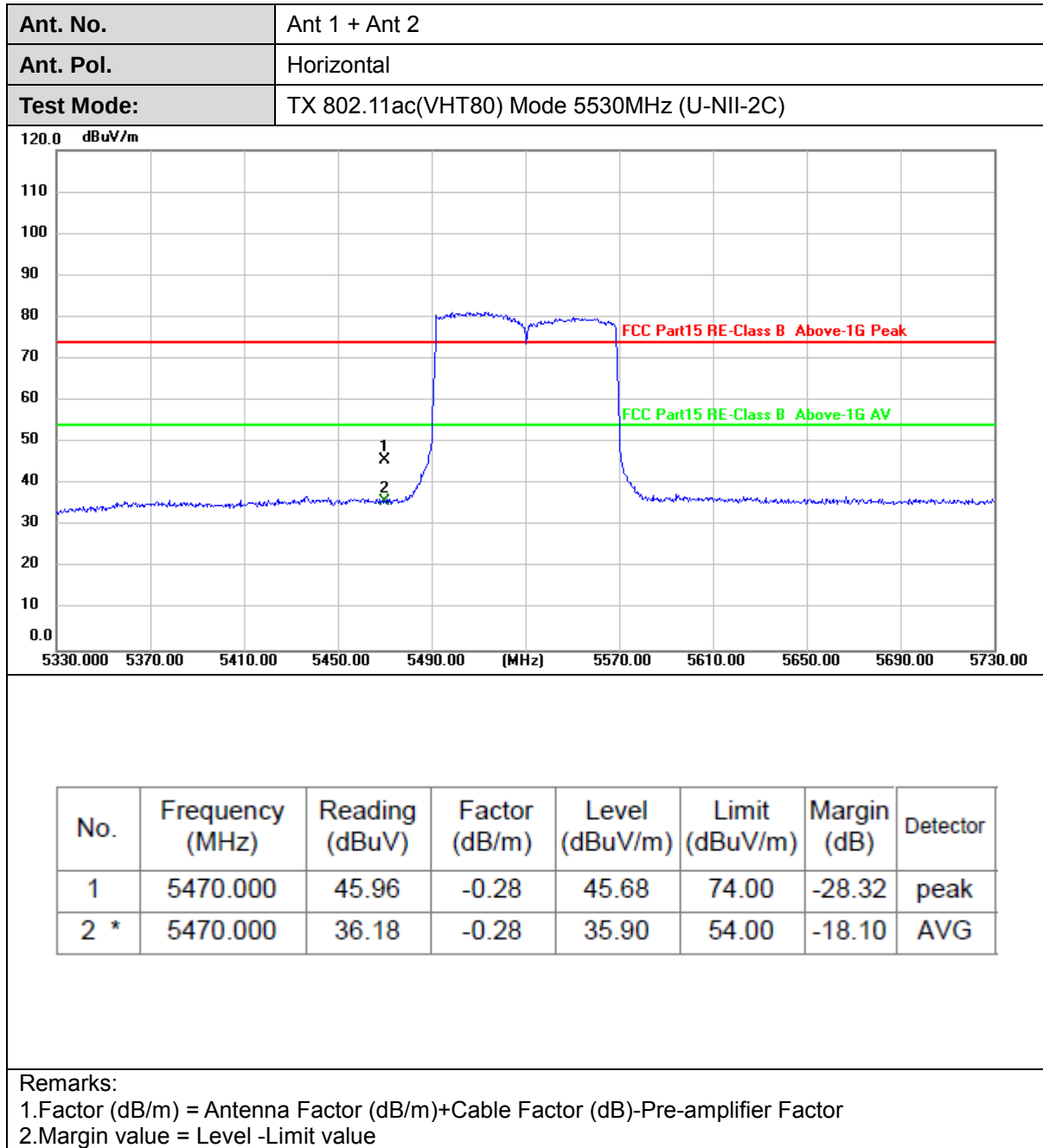
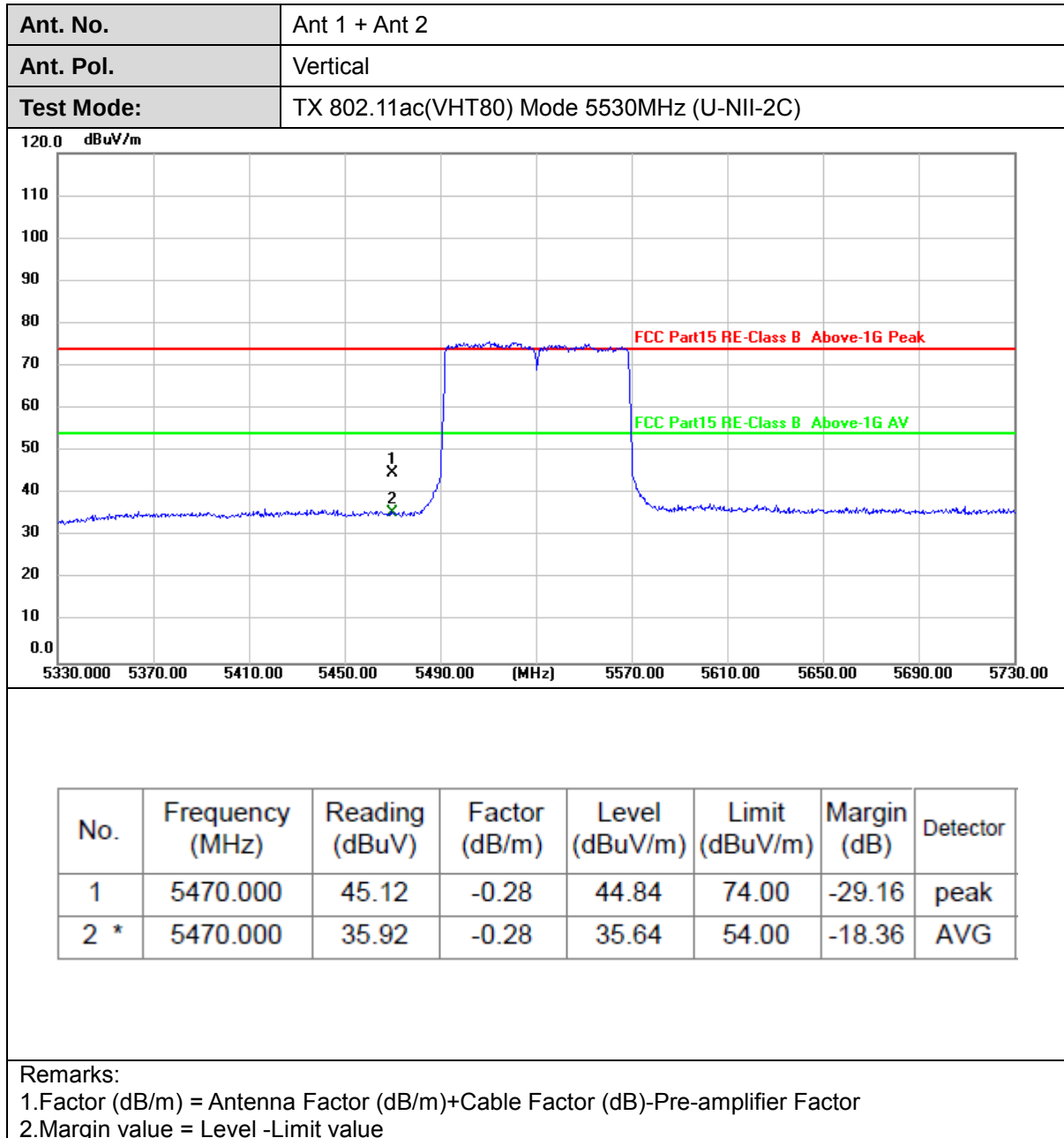


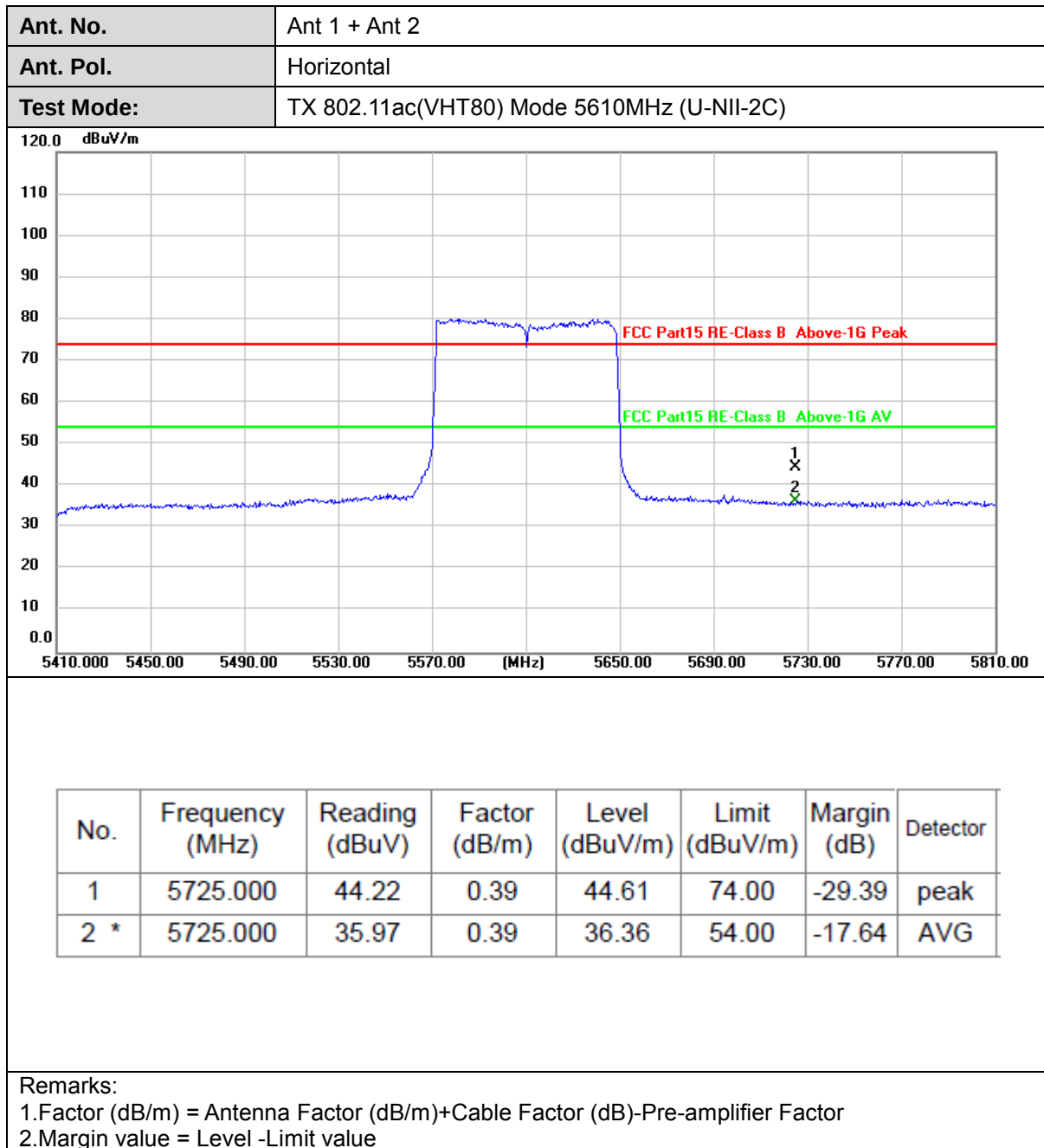


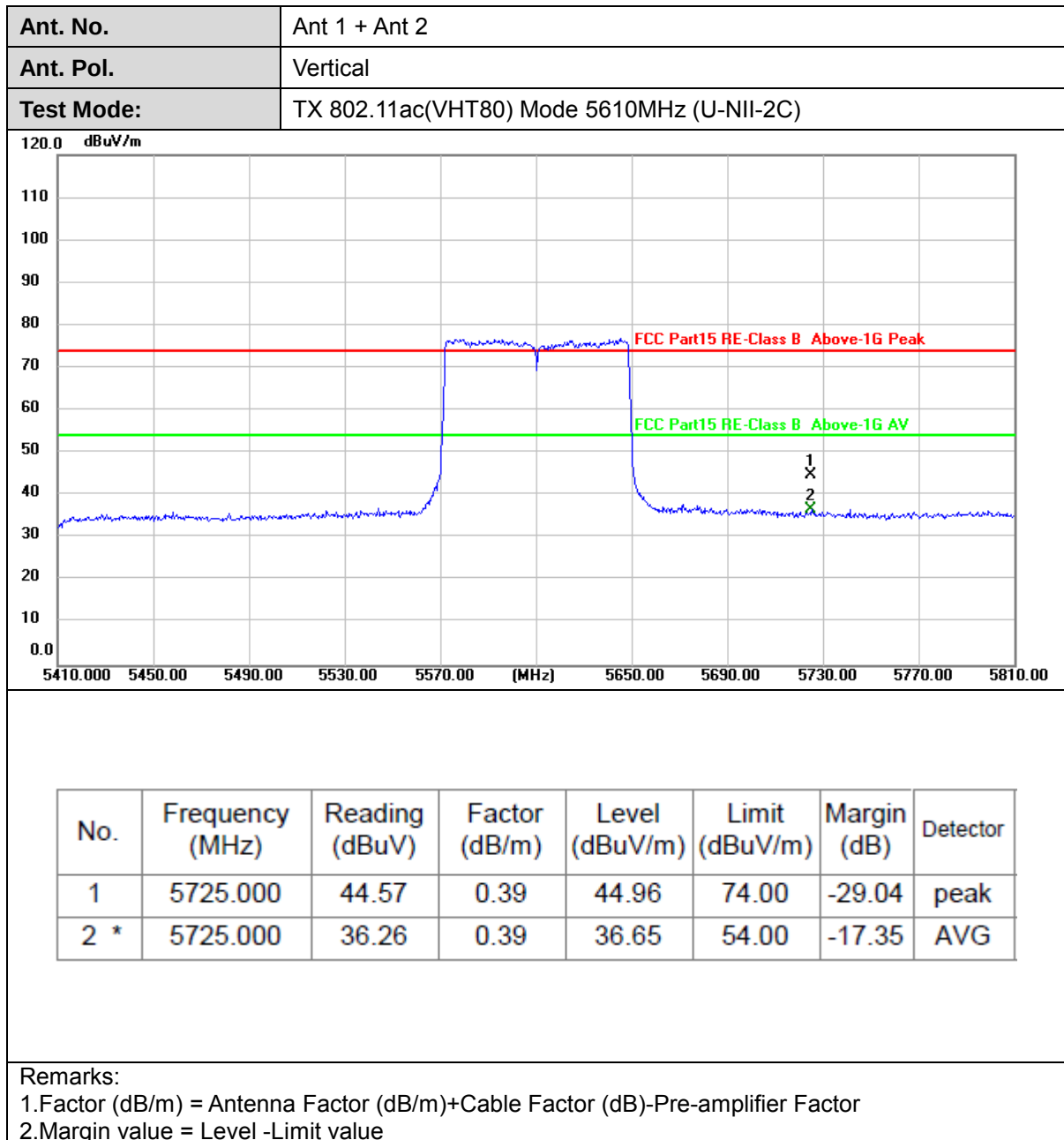


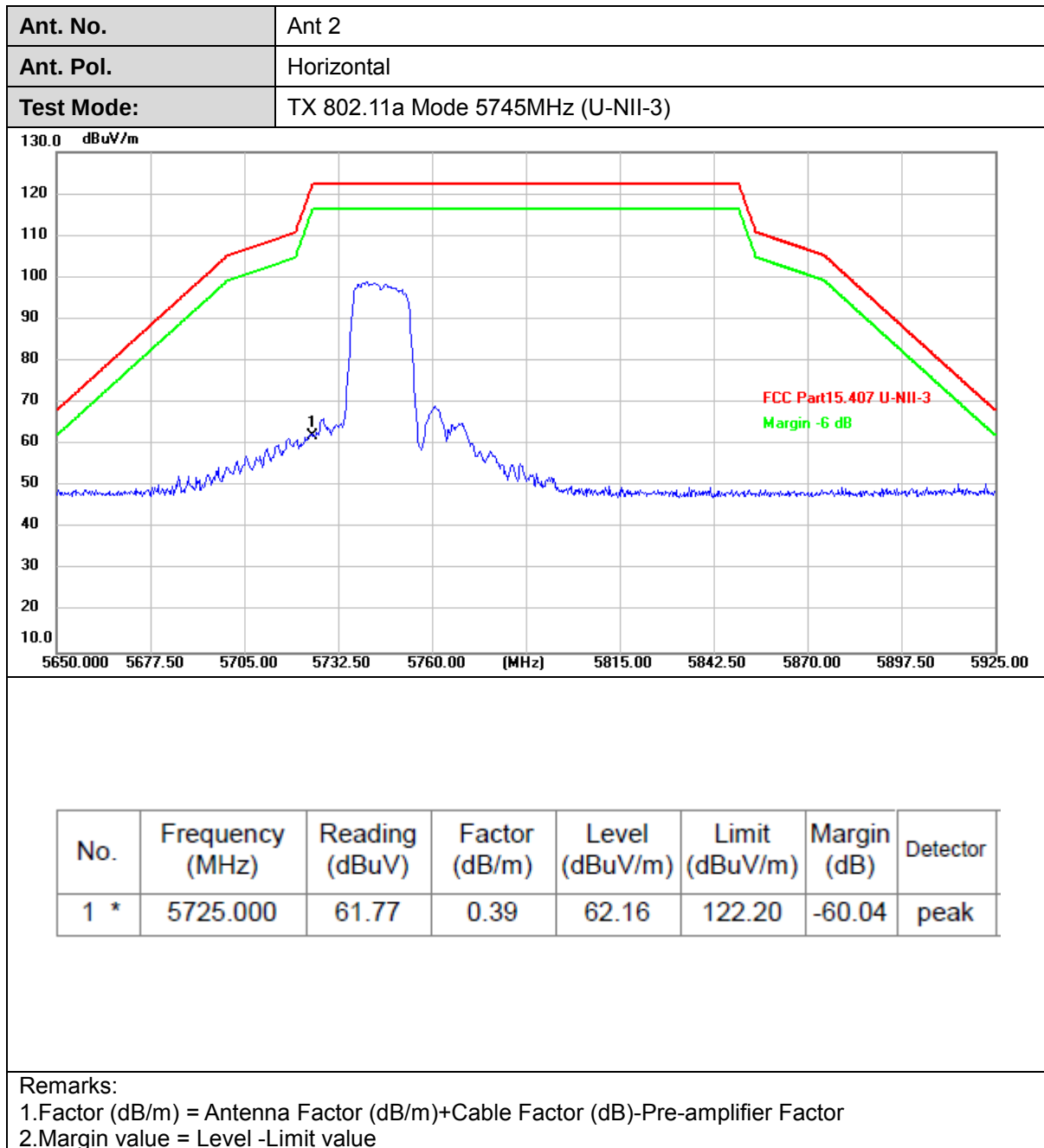


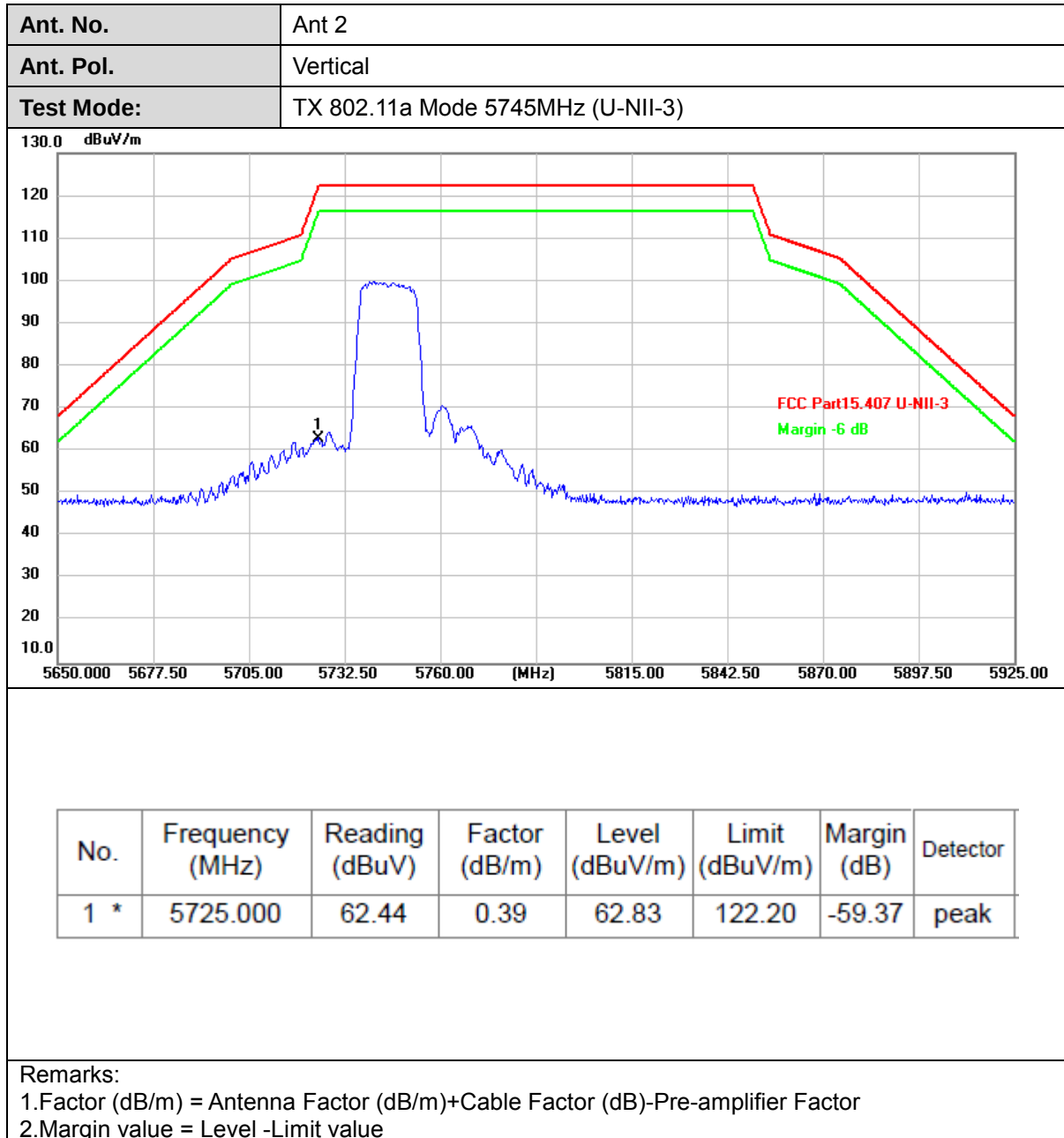


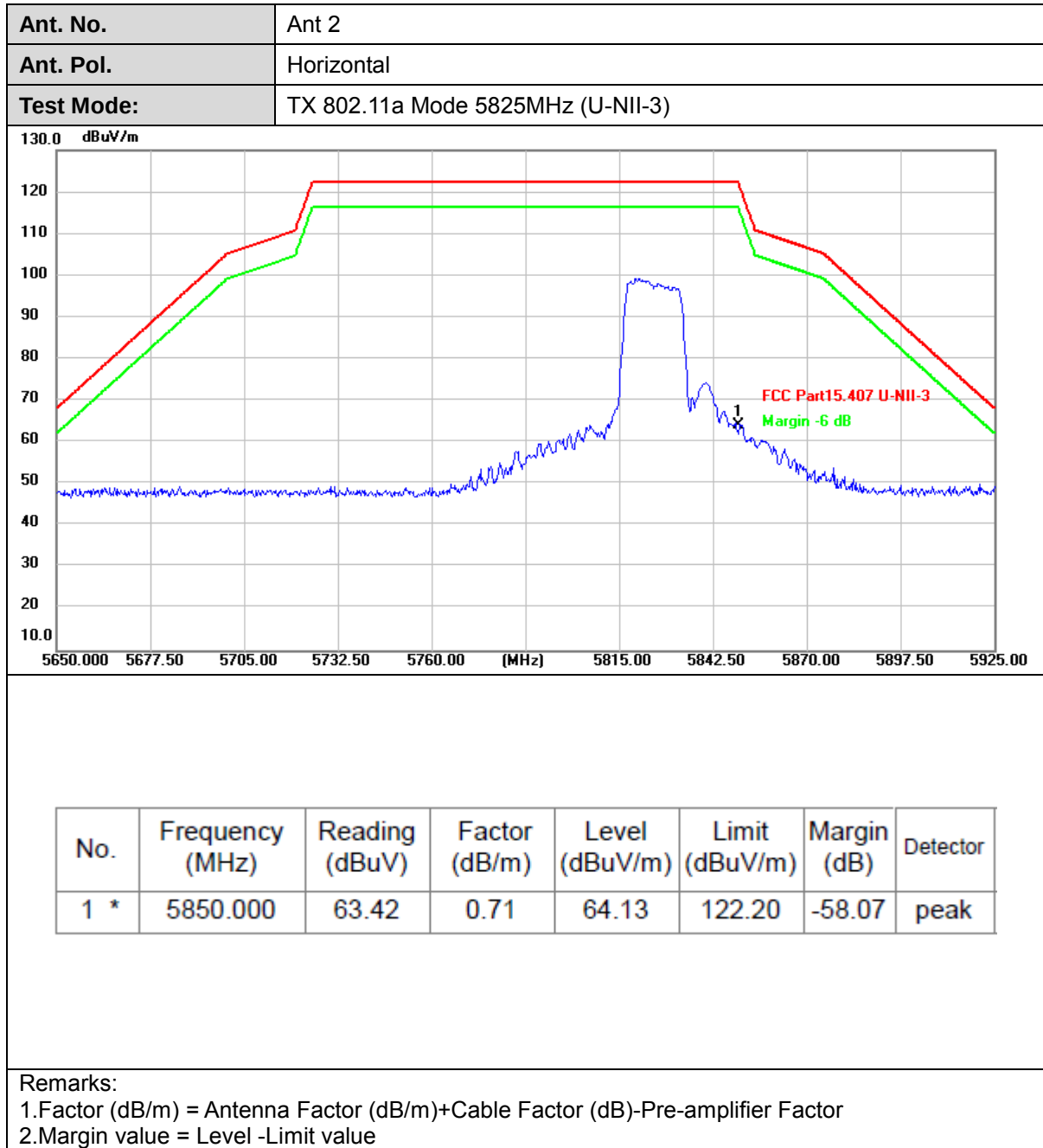


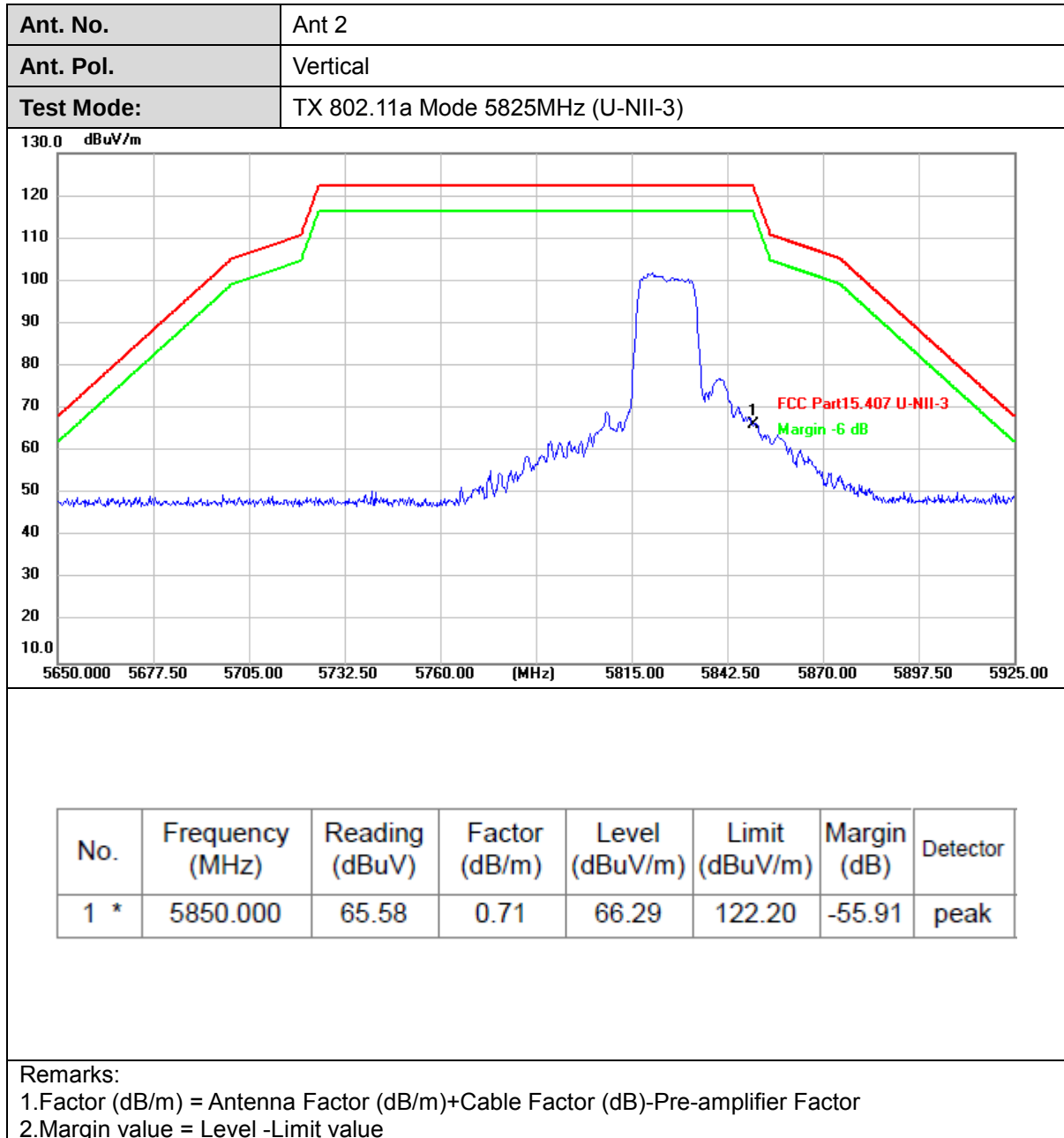


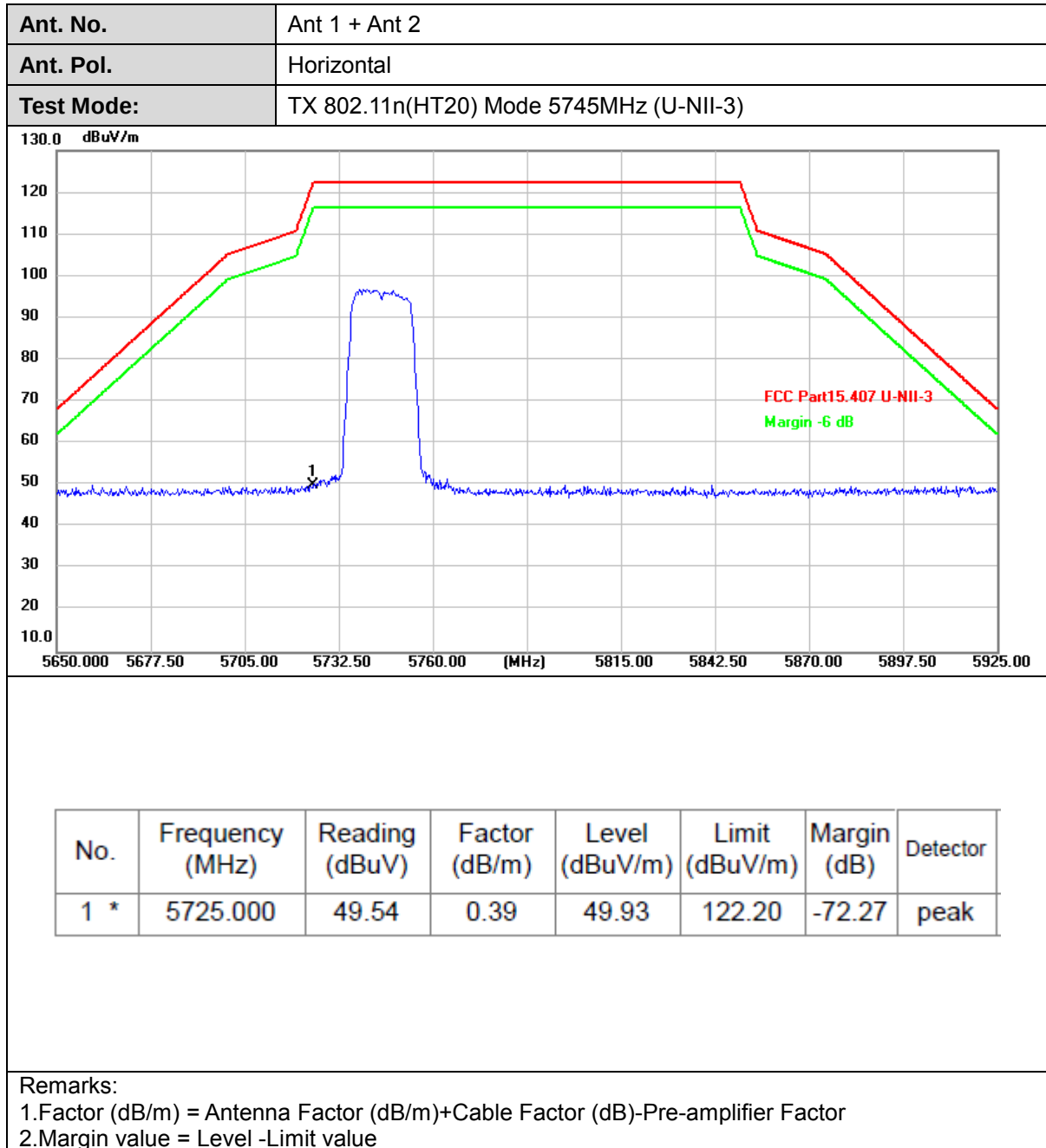


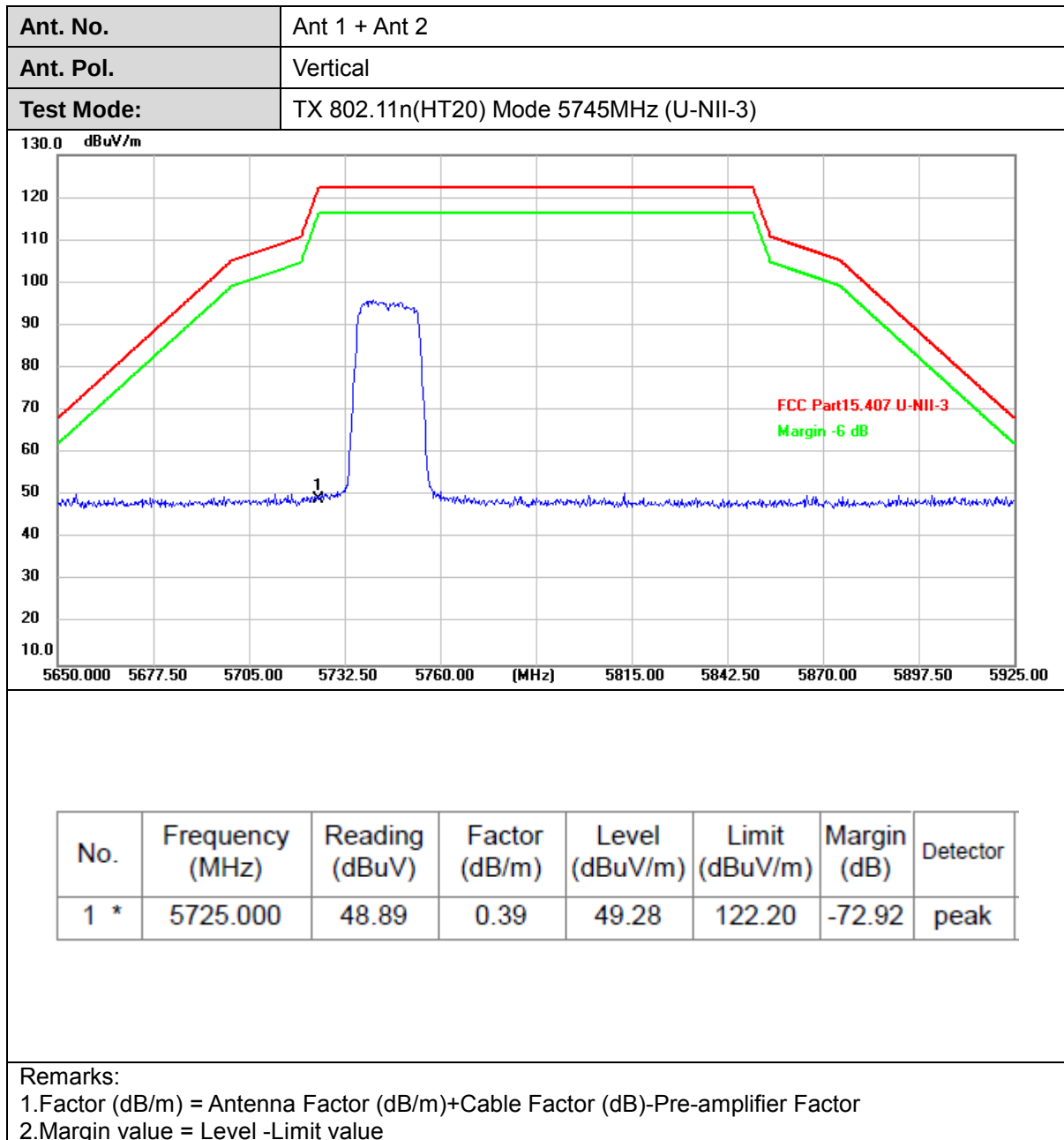


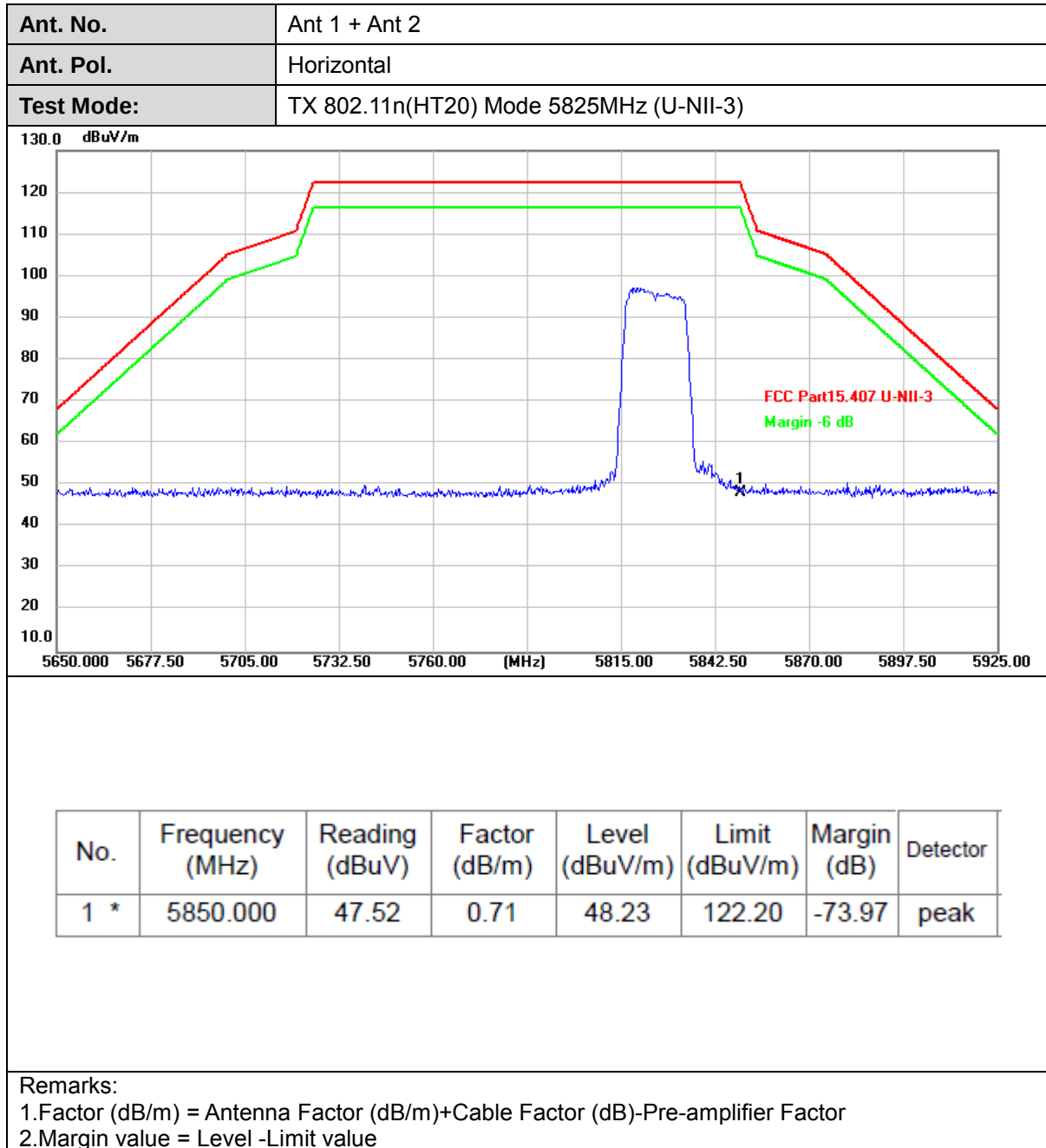


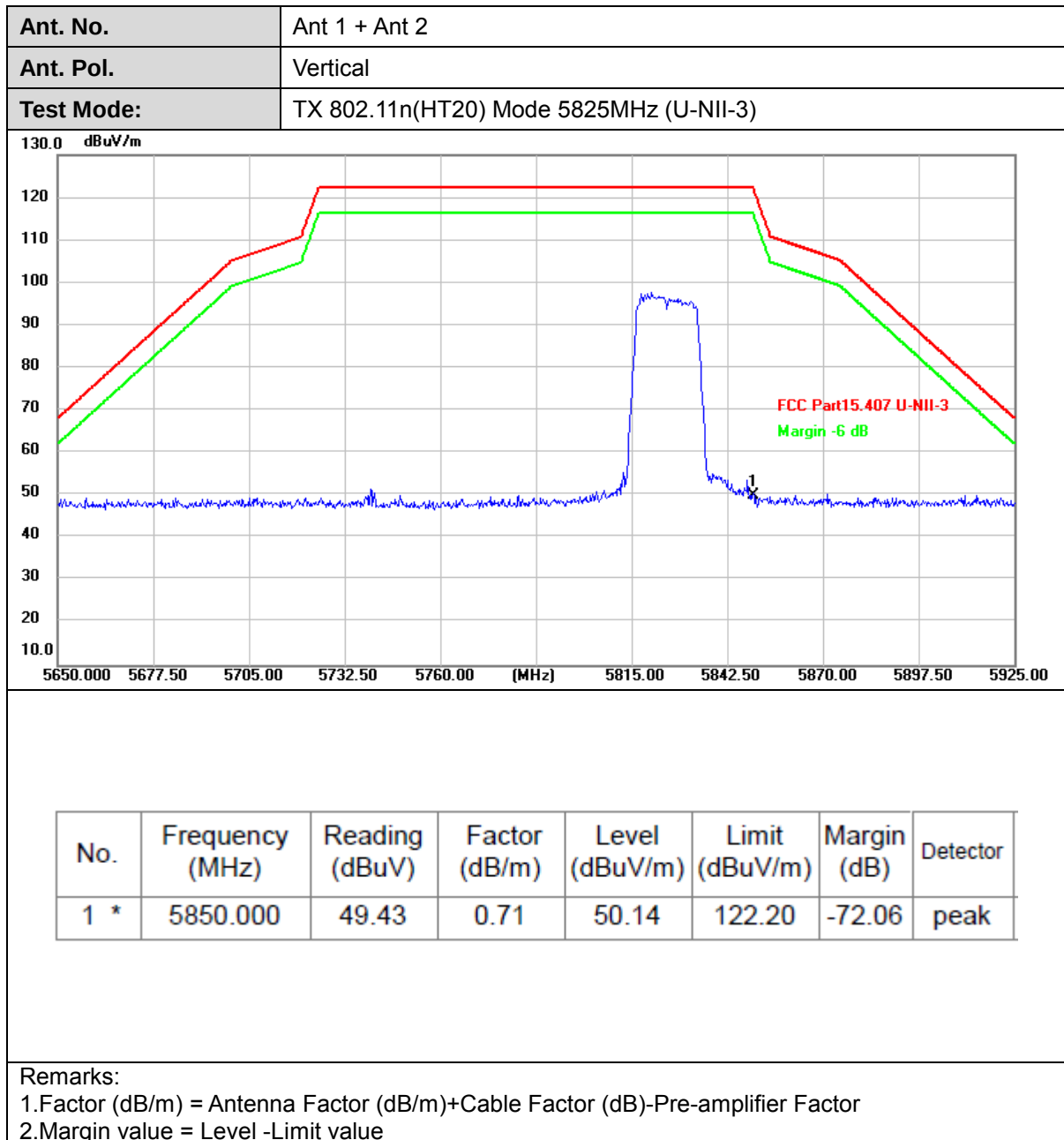


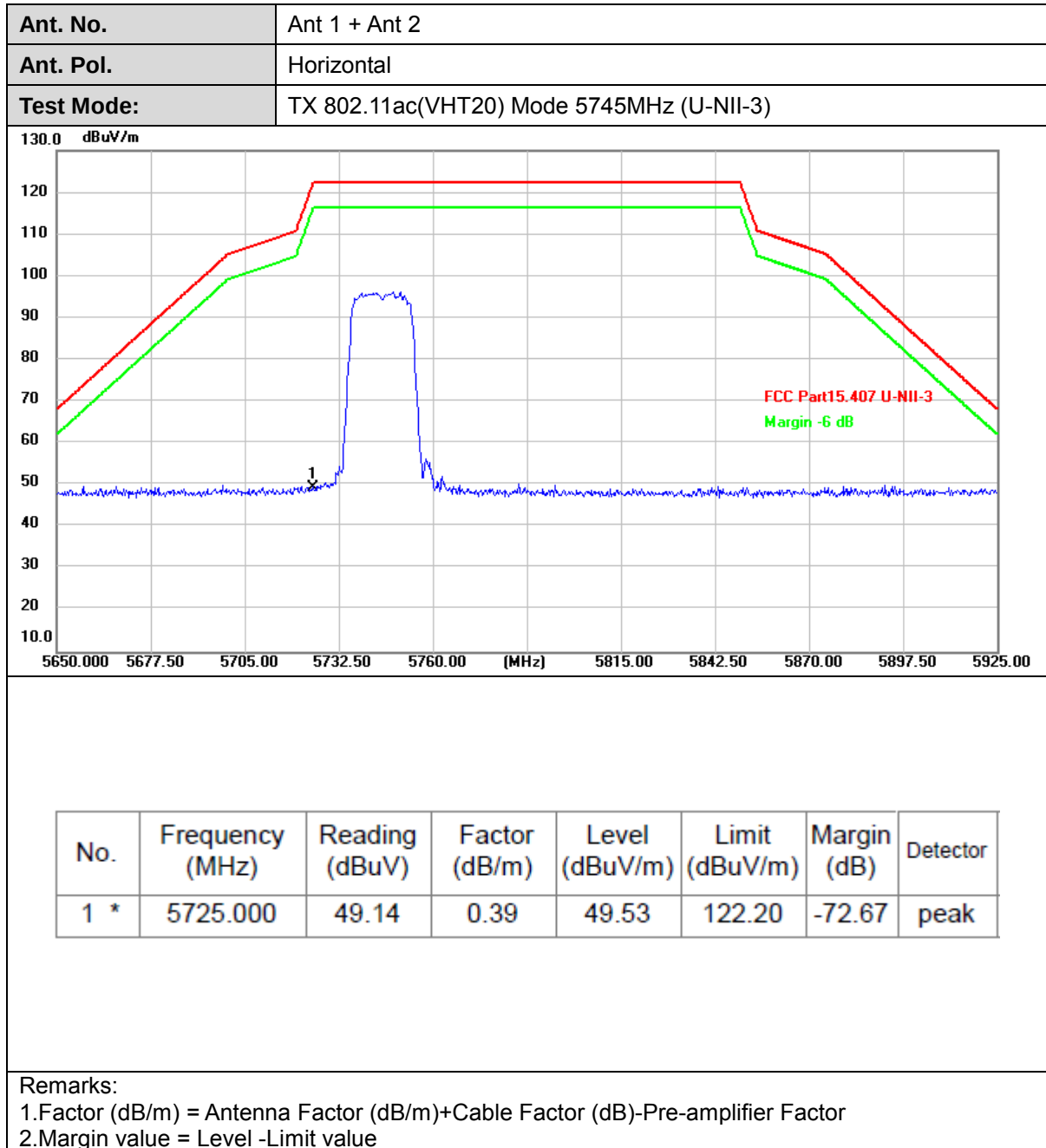


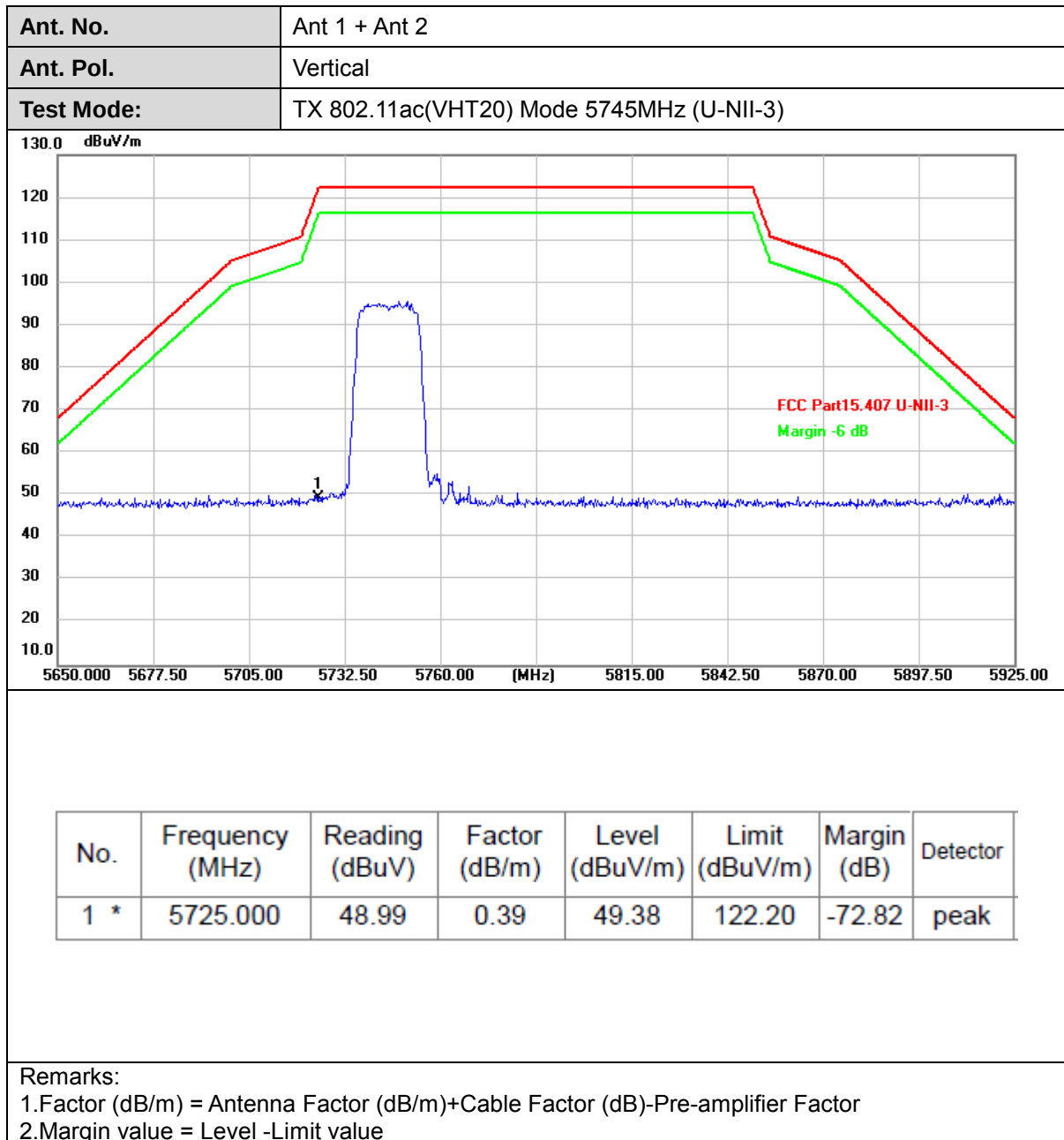


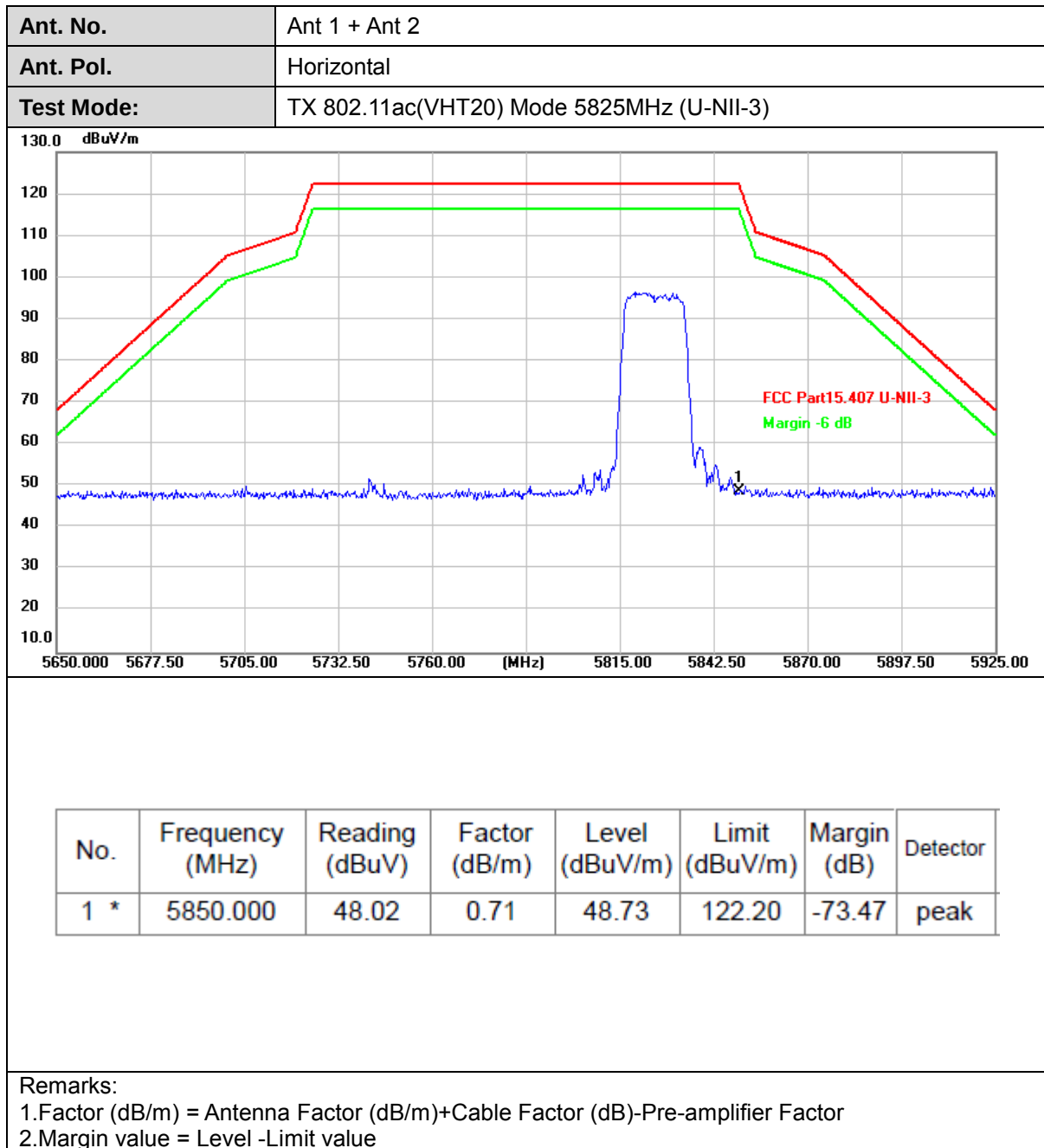


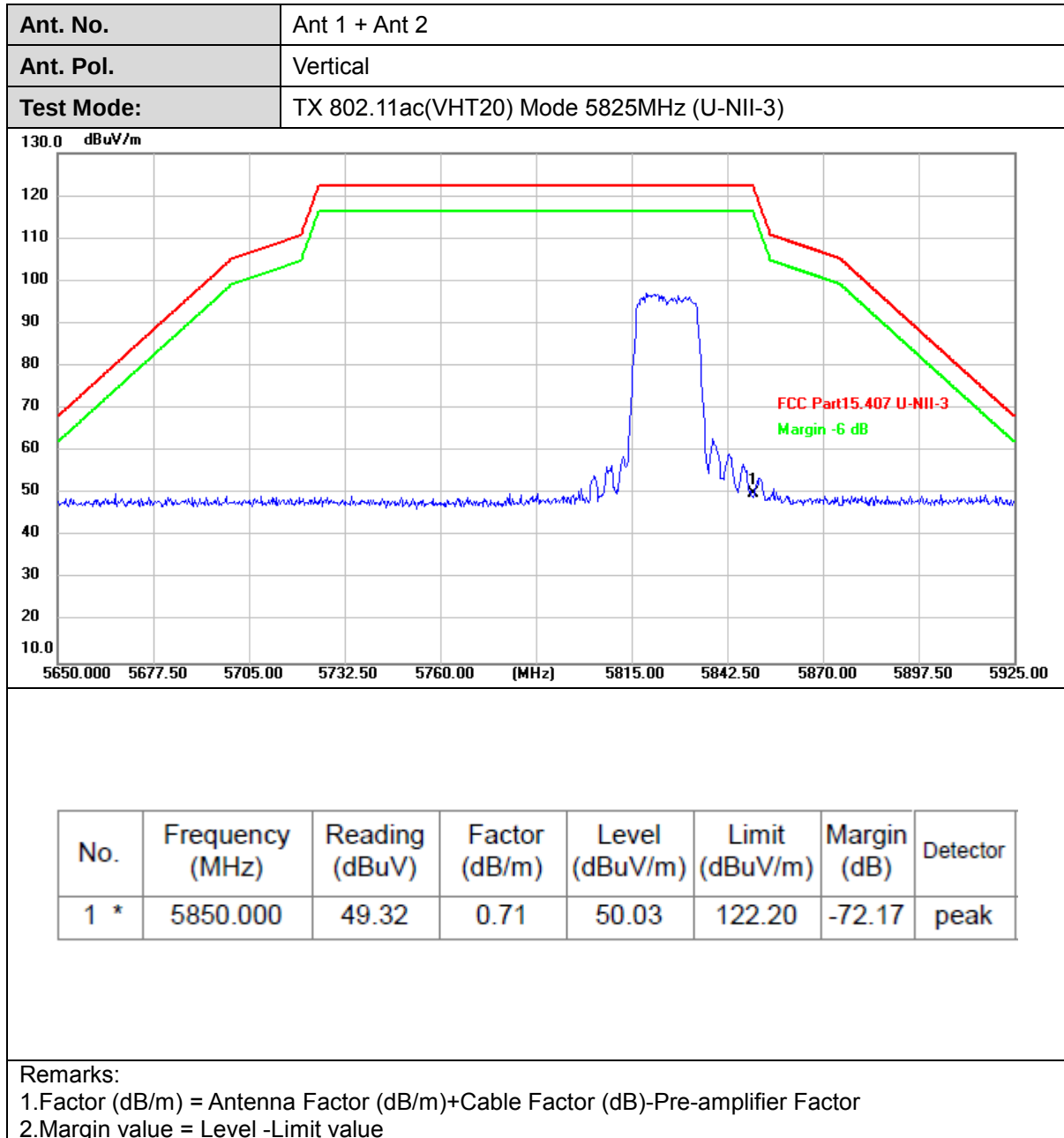


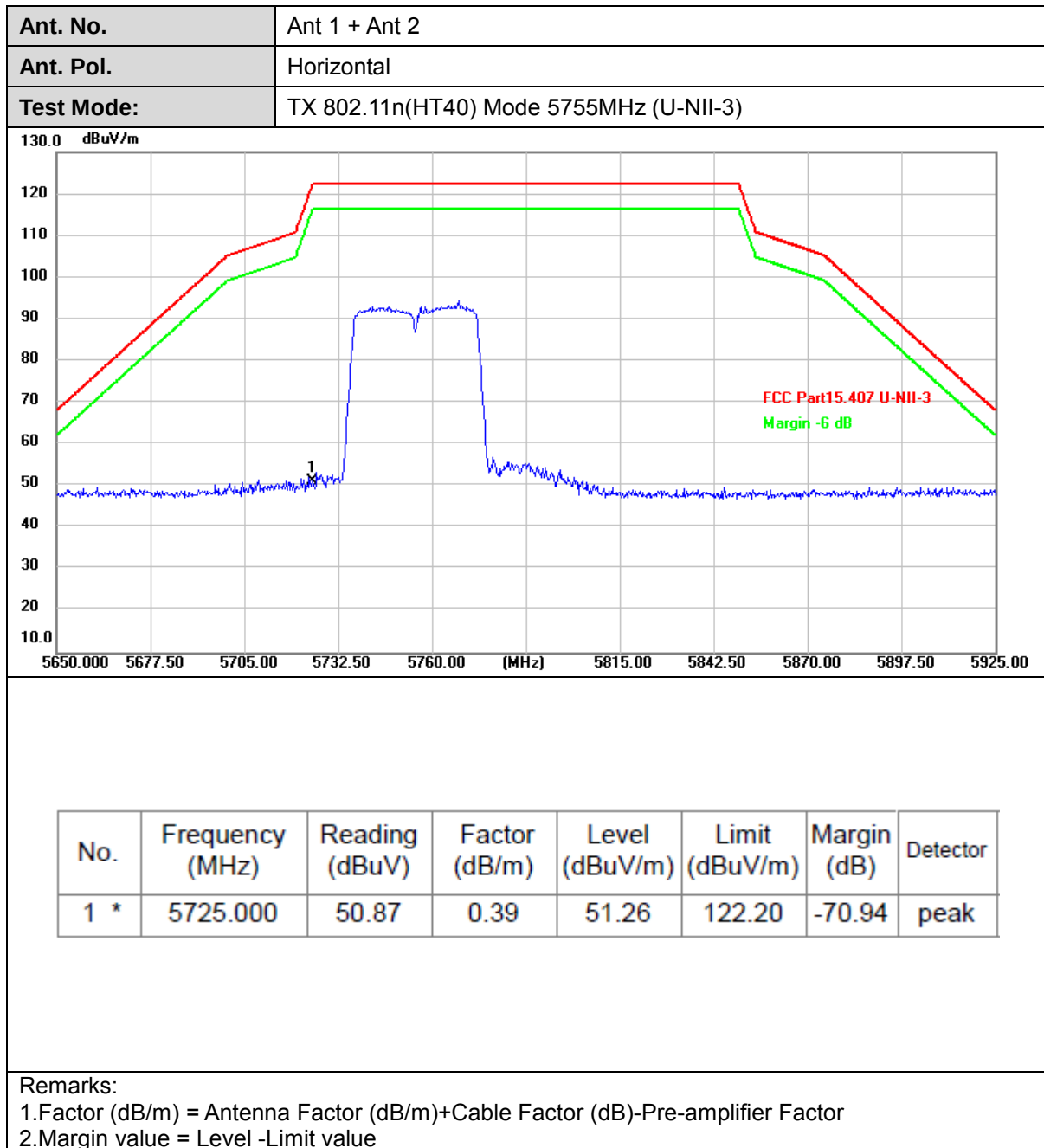


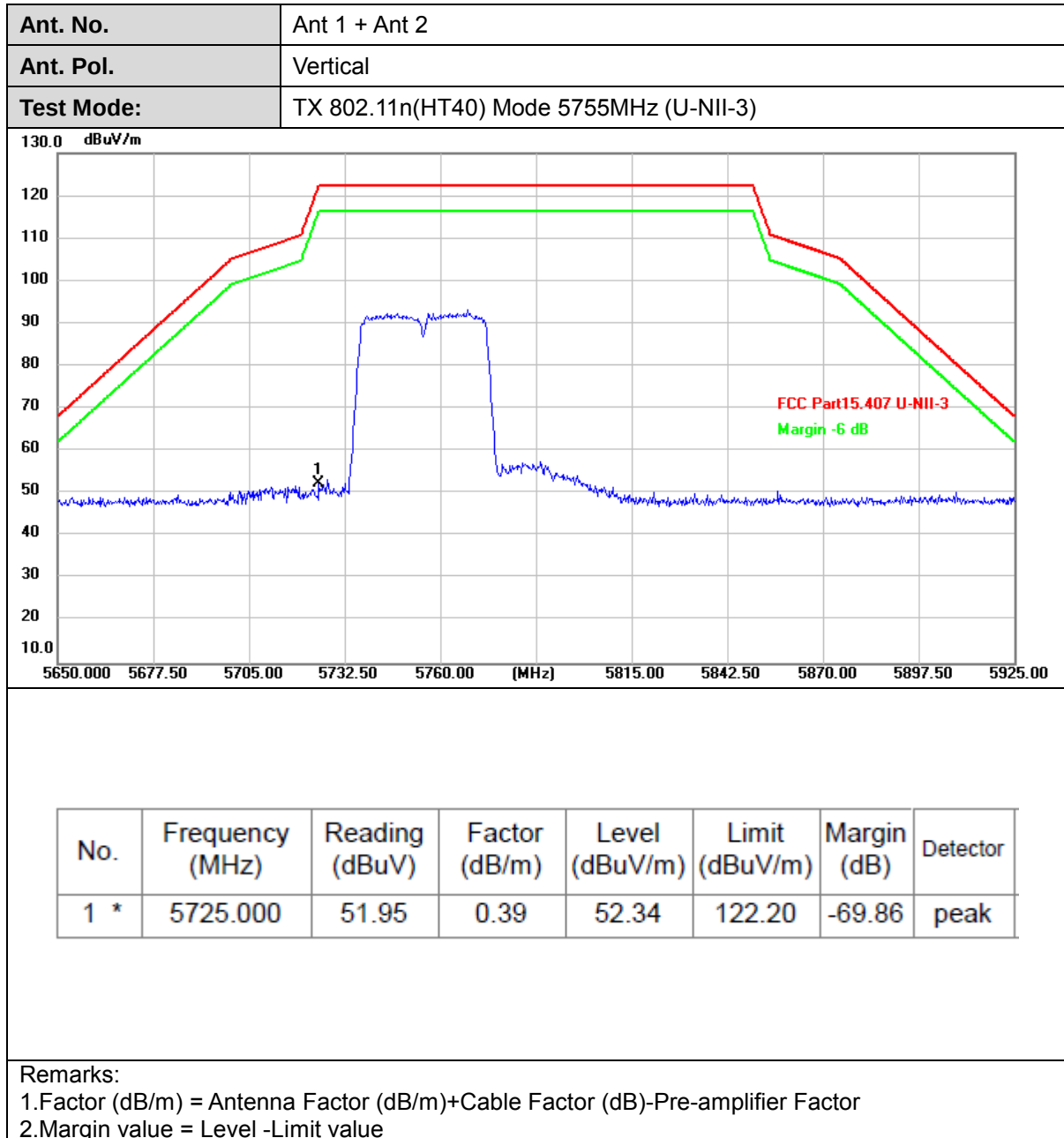


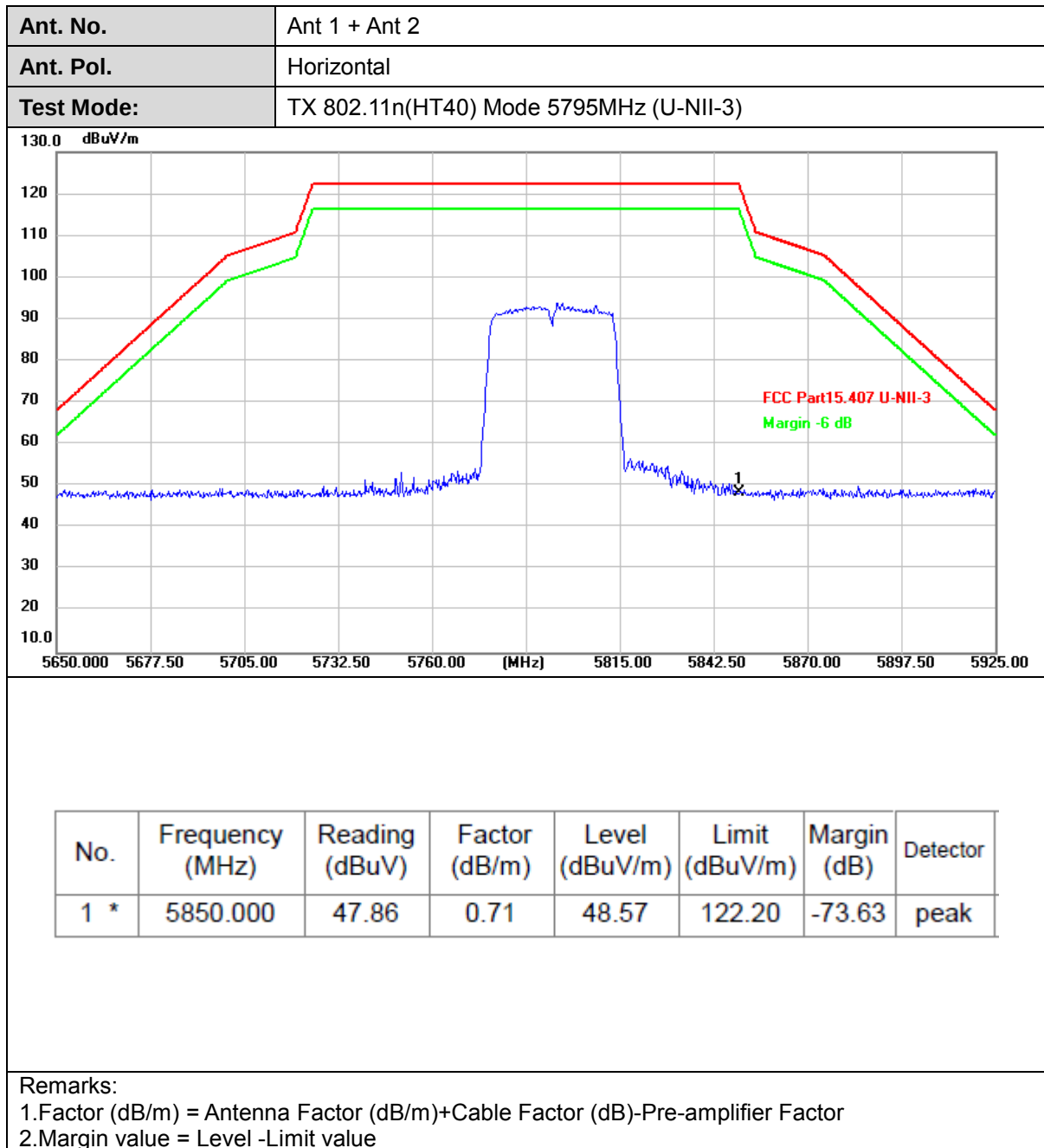


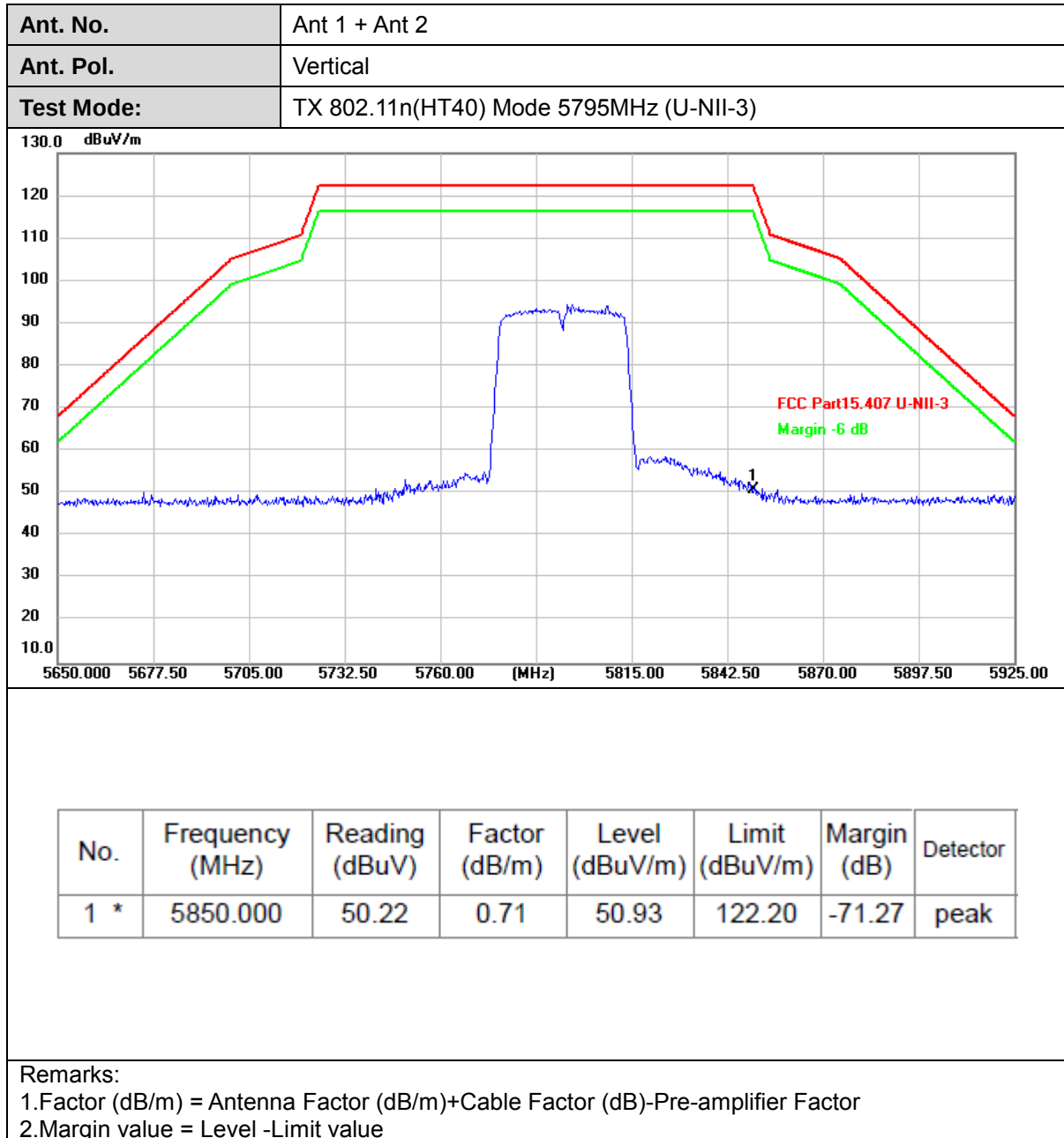


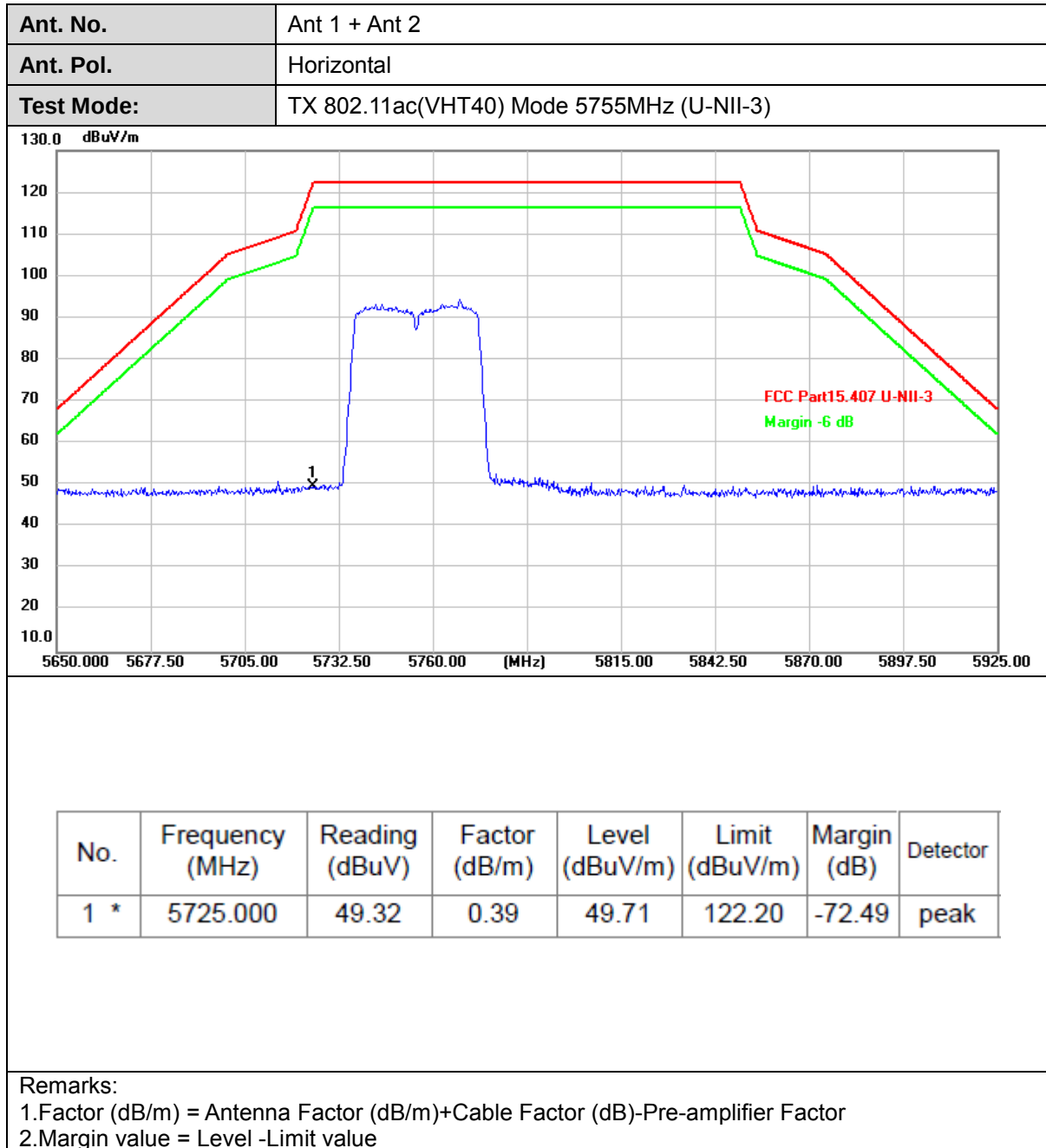


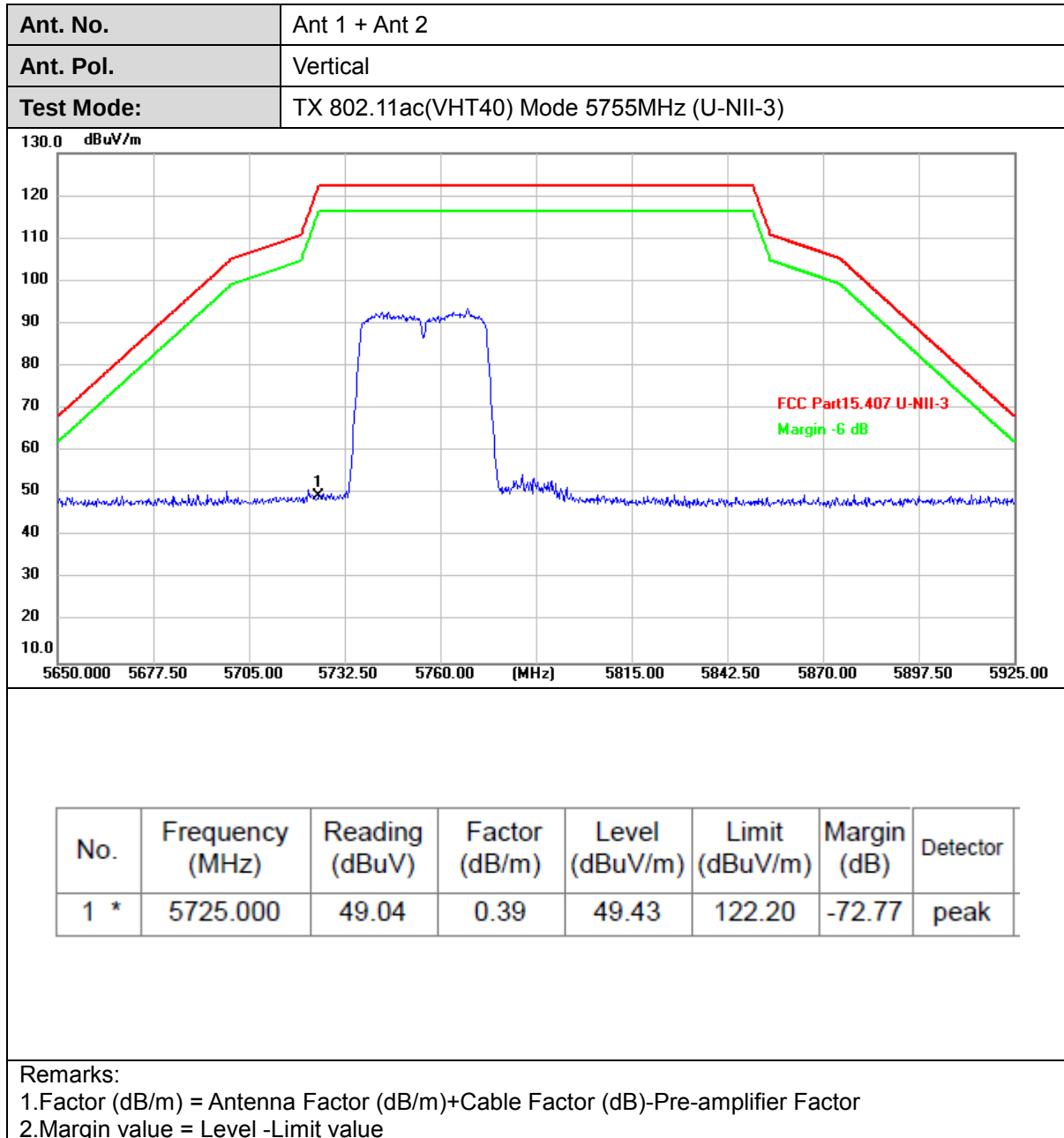


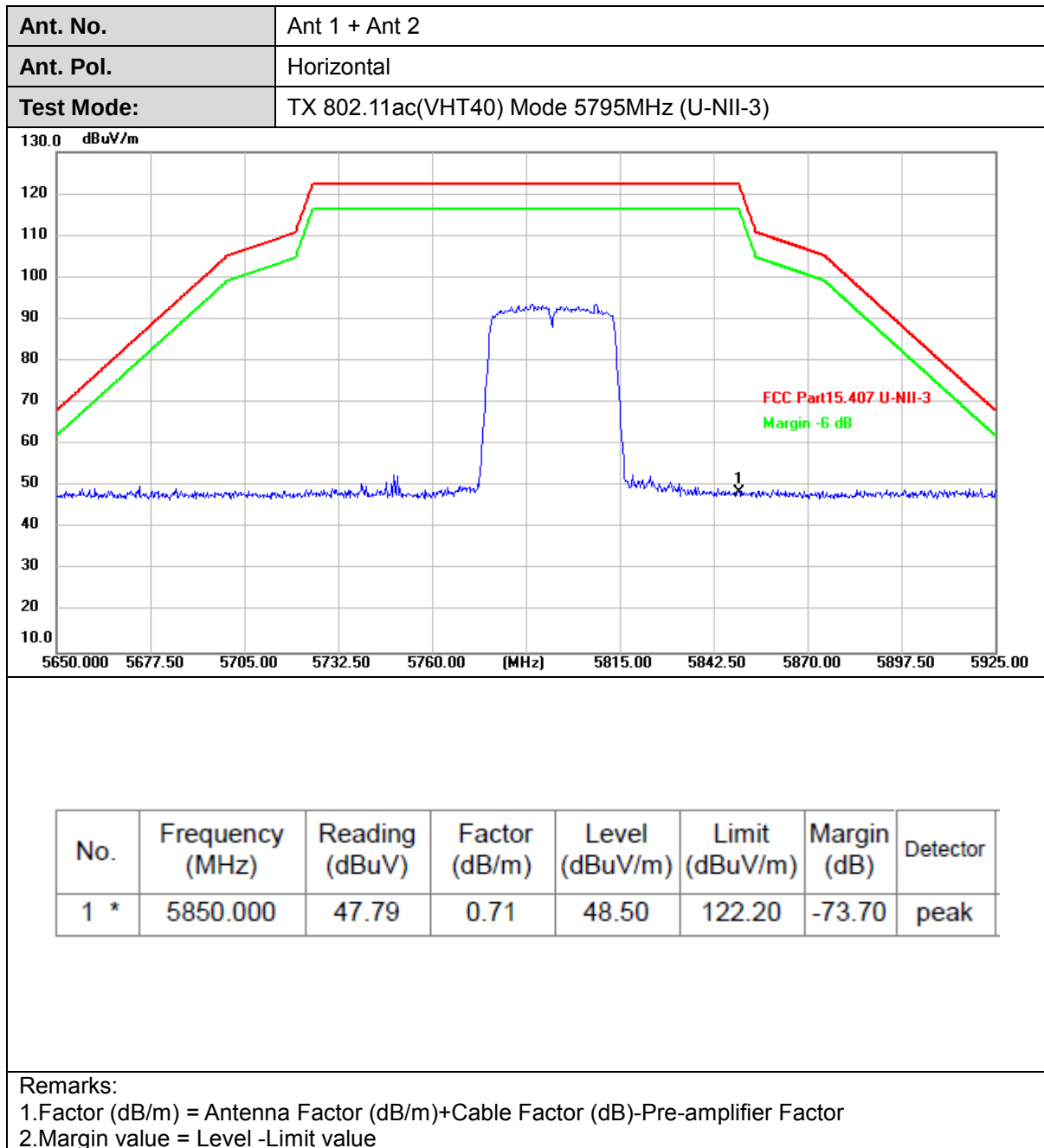


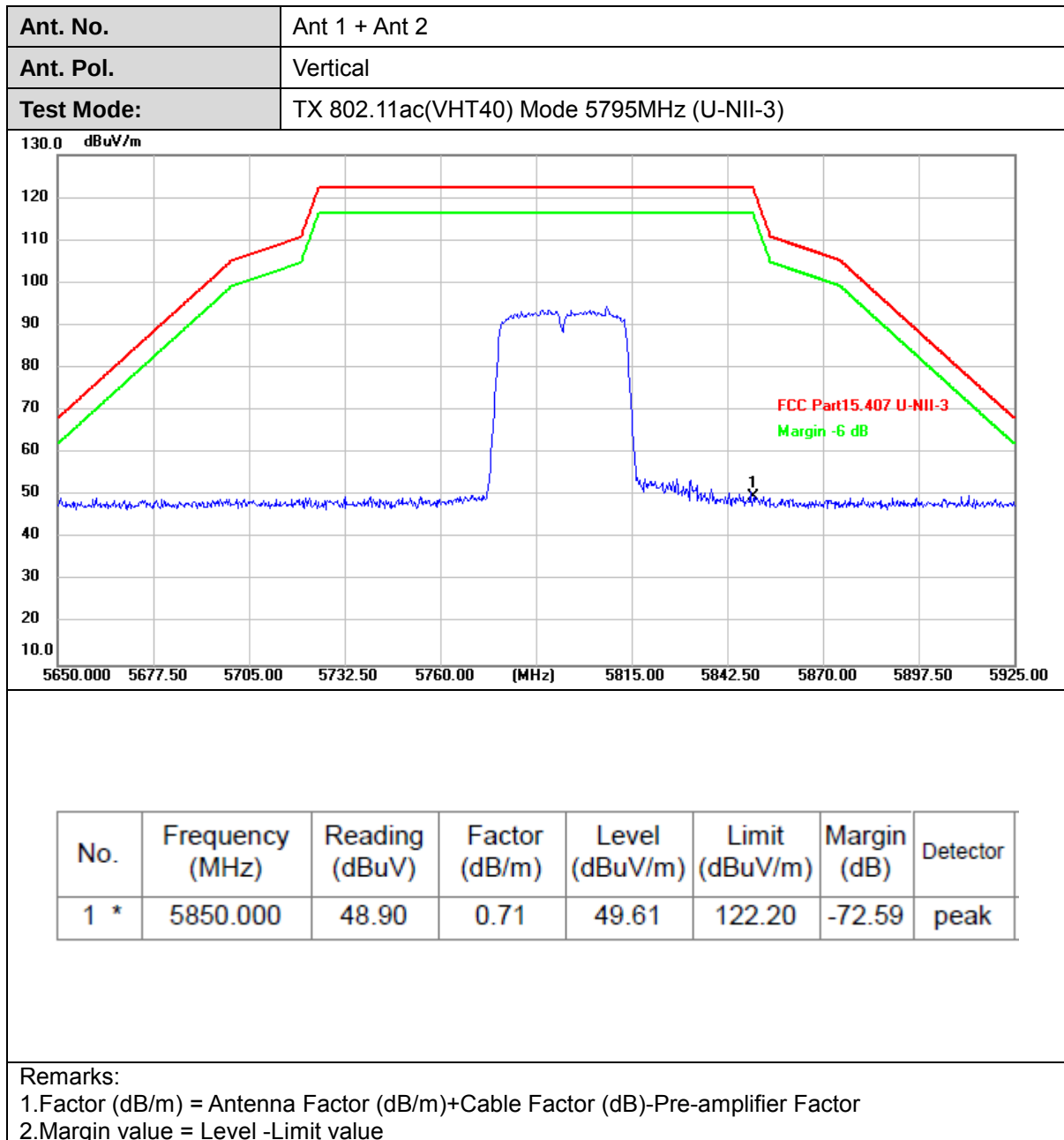


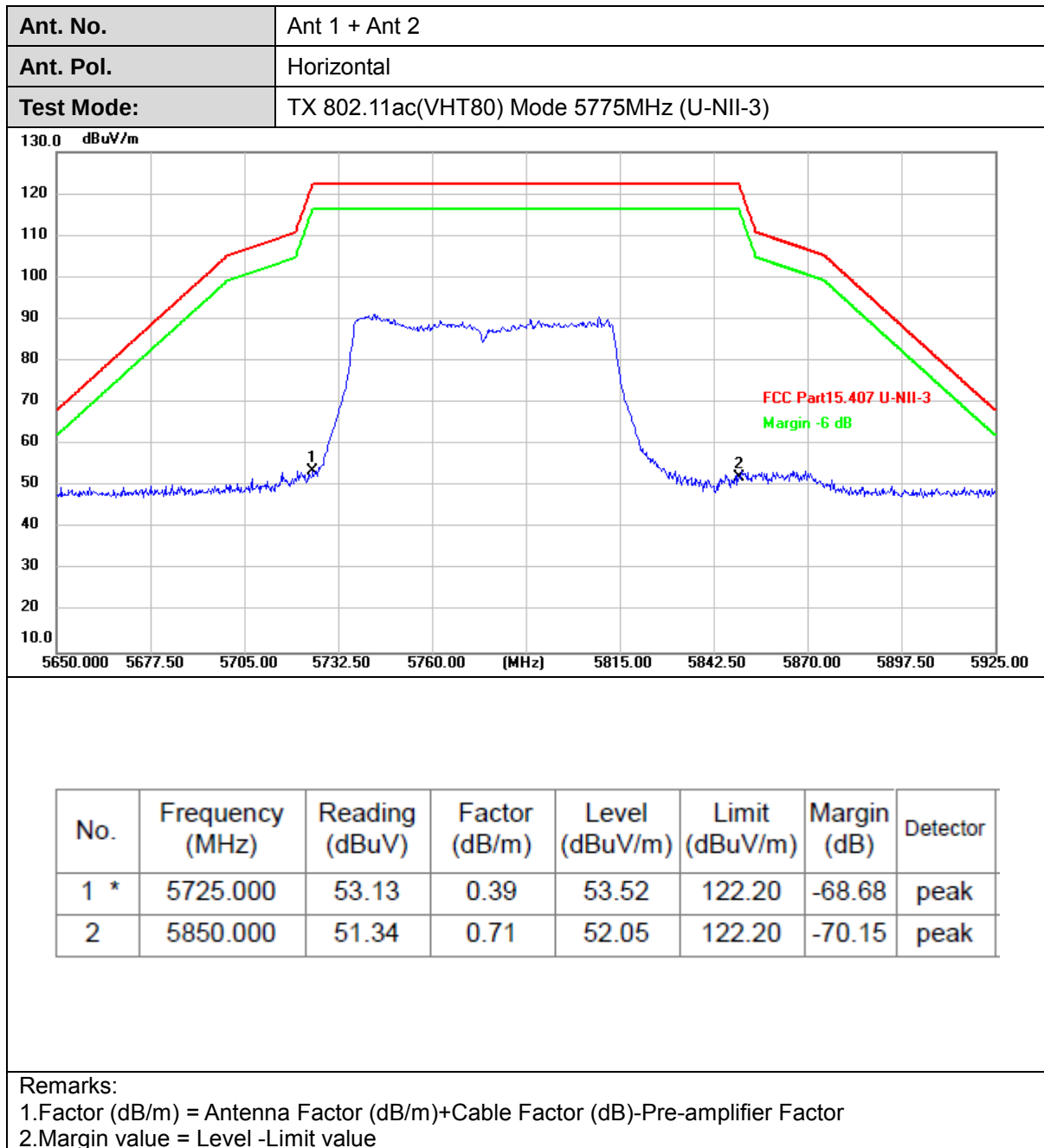


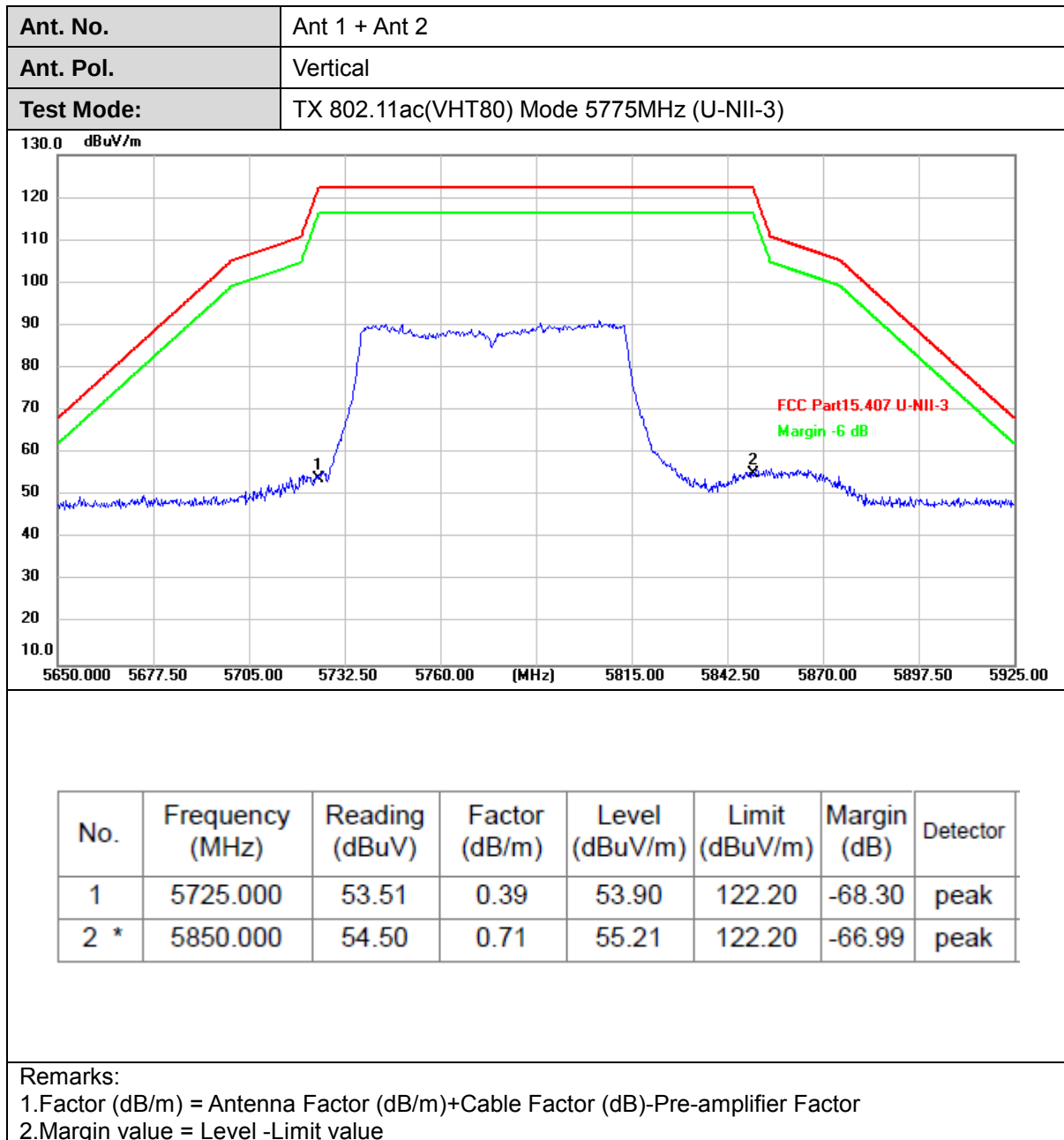














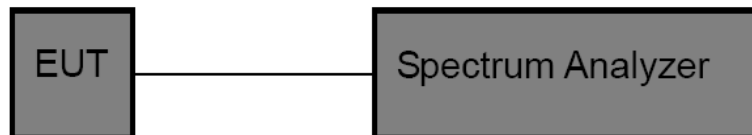
3.4. Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a) & (e) / RSS-247 6.2.1.2 & 6.2.4.1

Test Item	Limit	Frequency Range (MHz)
26dB Bandwidth& 99% Bandwidth	N/A	5150~5250
		5250~5350
		5500~5700
6 dB Bandwidth	≥500 kHz	5725~5850

Test Configuration



Test Procedure

Please refer to KDB789033 D02 for the measurement methods.

The setting of the spectrum analyzer as below:

26dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>26 dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	>RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto



6dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>6 dB Bandwidth
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
RBW	1% to 5% of the OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold

NOTE: The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

**Test Result****6dB Bandwidth**

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	36	1	5180	16.32	0.5	PASS
		2	5180	16.32		PASS
	40	1	5200	16.30		PASS
		2	5200	16.29		PASS
	48	1	5240	15.94		PASS
		2	5240	16.30		PASS
	52	1	5260	16.28		PASS
		2	5260	16.34		PASS
	56	1	5280	16.31		PASS
		2	5280	16.31		PASS
	64	1	5320	16.28		PASS
		2	5320	16.31		PASS
	100	1	5500	16.03		PASS
		2	5500	16.30		PASS
	116	1	5580	16.30		PASS
		2	5580	16.31		PASS
	140	1	5700	16.31		PASS
		2	5700	16.31		PASS
	149	1	5745	16.02		PASS
		2	5745	16.29		PASS
	157	1	5785	16.06		PASS
		2	5785	16.29		PASS
	165	1	5825	16.29		PASS
		2	5825	16.31		PASS
IEEE 802.11n_20	36	1	5180	16.77	0.5	PASS
		2	5180	17.31		PASS
	40	1	5200	17.22		PASS
		2	5200	16.95		PASS
	48	1	5240	17.11		PASS
		2	5240	17.56		PASS
	52	1	5260	16.89		PASS
		2	5260	17.30		PASS
	56	1	5280	17.10		PASS
		2	5280	17.54		PASS
	64	1	5320	16.91		PASS
		2	5320	17.25		PASS
	100	1	5500	17.20		PASS
		2	5500	17.03		PASS
	116	1	5580	16.92		PASS
		2	5580	17.29		PASS
	140	1	5700	17.26		PASS
		2	5700	17.52		PASS
	149	1	5745	17.18		PASS
		2	5745	17.55		PASS
	157	1	5785	16.93		PASS
		2	5785	16.94		PASS
	165	1	5825	16.91		PASS
		2	5825	16.82		PASS
IEEE 802.11n_40	38	1	5190	35.33	0.5	PASS
		2	5190	35.66		PASS
	46	1	5230	35.46		PASS
		2	5230	35.33		PASS
	54	1	5270	35.34		PASS
		2	5270	35.38		PASS
	62	1	5310	35.31		PASS
		2	5310	35.60		PASS
	102	1	5510	35.34		PASS
		2	5510	35.45		PASS

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	110	1	5550	35.33	PASS
		2	5550	35.12	PASS
	134	1	5670	35.49	PASS
		2	5670	35.33	PASS
	151	1	5755	35.71	PASS
		2	5755	35.32	PASS
IEEE 802.11ac_20	159	1	5795	35.31	PASS
		2	5795	35.27	PASS
	36	1	5180	17.27	PASS
		2	5180	17.26	PASS
	40	1	5200	16.90	PASS
		2	5200	16.93	PASS
	48	1	5240	17.28	PASS
		2	5240	16.83	PASS
	52	1	5260	17.13	PASS
		2	5260	16.63	PASS
	56	1	5280	16.90	PASS
		2	5280	17.17	PASS
	64	1	5320	17.28	PASS
		2	5320	16.93	PASS
	100	1	5500	16.92	PASS
		2	5500	17.15	PASS
	116	1	5580	17.02	PASS
		2	5580	17.17	PASS
	140	1	5700	16.90	PASS
		2	5700	16.91	PASS
	149	1	5745	16.90	PASS
		2	5745	16.90	PASS
	157	1	5785	17.19	PASS
		2	5785	16.91	PASS
	165	1	5825	17.07	PASS
		2	5825	17.13	PASS
IEEE 802.11ac_40	38	1	5190	35.42	PASS
		2	5190	35.64	PASS
	46	1	5230	35.31	PASS
		2	5230	35.59	PASS
	54	1	5270	35.67	PASS
		2	5270	35.34	PASS
	62	1	5310	35.58	PASS
		2	5310	35.11	PASS
	102	1	5510	35.41	PASS
		2	5510	35.65	PASS
	110	1	5550	35.33	PASS
		2	5550	35.63	PASS
	134	1	5670	35.77	PASS
		2	5670	35.37	PASS
	151	1	5755	35.43	PASS
		2	5755	35.36	PASS
	159	1	5795	35.35	PASS
		2	5795	35.56	PASS
IEEE 802.11ac_80	42	1	5210	75.15	PASS
		2	5210	75.14	PASS
	58	1	5290	75.11	PASS
		2	5290	76.32	PASS
	106	1	5530	75.33	PASS
		2	5530	76.30	PASS
	122	1	5610	75.33	PASS
		2	5610	75.74	PASS
	155	1	5775	75.73	PASS
		2	5775	75.74	PASS

**26dB Bandwidth**

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	36	1	5180	25.03	1.20
		2	5180	18.44	1.11
	40	1	5200	18.24	1.11
		2	5200	18.13	1.13
	48	1	5240	19.86	1.13
		2	5240	18.37	1.12
	52	1	5260	18.30	1.12
		2	5260	18.23	1.13
	56	1	5280	18.18	1.14
		2	5280	18.27	1.13
	64	1	5320	18.31	1.13
		2	5320	18.38	1.12
	100	1	5500	18.29	1.12
		2	5500	18.40	1.12
	116	1	5580	18.27	1.12
		2	5580	18.30	1.13
	140	1	5700	29.47	1.02
		2	5700	24.11	1.08
	149	1	5745	29.47	1.02
		2	5745	26.05	1.15
IEEE 802.11n_20	36	1	5180	19.19	1.13
		2	5180	19.26	1.12
	40	1	5200	19.31	1.12
		2	5200	19.51	1.11
	48	1	5240	19.35	1.12
		2	5240	30.00	1.00
	52	1	5260	19.46	1.11
		2	5260	19.25	1.12
	56	1	5280	19.25	1.12
		2	5280	19.37	1.12
	64	1	5320	19.21	1.13
		2	5320	19.34	1.11
	100	1	5500	19.44	1.11
		2	5500	19.36	1.12
	116	1	5580	19.28	1.12
		2	5580	19.47	1.11
	140	1	5700	19.28	1.12
		2	5700	19.31	1.18
	149	1	5745	29.12	1.03
		2	5745	24.43	1.08
IEEE 802.11n_40	38	1	5190	50.96	1.00
		2	5190	51.42	0.99
	46	1	5230	38.80	1.06
		2	5230	38.84	1.05
	54	1	5270	55.75	1.03
		2	5270	55.79	1.03
	62	1	5310	58.19	1.03
		2	5310	59.72	1.00
	102	1	5510	57.57	1.03
		2	5510	59.81	1.00
	110	1	5550	57.85	1.03
		2	5550	59.89	1.00
	134	1	5670	55.48	1.00
		2	5670	57.58	1.03

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	151	1	5755	59.80	1.01
		2	5755	60.00	1.03
	159	1	5795	59.92	1.03
		2	5795	59.97	1.00
IEEE 802.11ac_20	36	1	5180	27.58	1.09
		2	5180	29.14	1.03
	40	1	5200	27.43	1.09
		2	5200	25.77	1.16
	48	1	5240	29.14	1.03
		2	5240	25.70	1.17
	52	1	5260	29.19	1.03
		2	5260	25.76	1.16
	56	1	5280	23.81	1.08
		2	5280	25.99	1.15
	64	1	5320	25.81	1.16
		2	5320	26.29	1.14
	100	1	5500	26.35	1.14
		2	5500	26.20	1.15
	116	1	5580	26.38	1.14
		2	5580	25.81	1.16
	140	1	5700	29.95	1.00
		2	5700	29.75	1.01
	149	1	5745	30.00	1.00
		2	5745	26.76	1.12
IEEE 802.11ac_40	157	1	5785	28.27	1.06
		2	5785	29.17	1.03
	165	1	5825	29.06	1.03
		2	5825	30.00	1.00
	38	1	5190	42.28	1.16
		2	5190	59.01	1.02
	46	1	5230	47.25	1.08
		2	5230	49.32	1.03
	54	1	5270	49.24	1.04
		2	5270	49.63	1.03
	62	1	5310	39.03	1.14
		2	5310	49.42	1.03
	102	1	5510	46.28	1.10
		2	5510	49.99	1.02
	110	1	5550	49.44	1.03
		2	5550	49.36	1.03
	134	1	5670	49.48	1.03
		2	5670	50.35	1.01
	151	1	5755	55.22	1.07
		2	5755	55.62	1.08
IEEE 802.11ac_80	159	1	5795	59.16	1.04
		2	5795	59.95	1.03
	42	1	5210	85.41	1.17
		2	5210	85.57	1.17
	58	1	5290	85.58	1.17
		2	5290	87.94	1.14
	106	1	5530	85.18	1.17
		2	5530	87.33	1.15
	122	1	5610	85.97	1.16
		2	5610	87.73	1.14
	155	1	5775	120.00	1.02
		2	5775	118.78	1.02

**99% Bandwidth**

Mode	Channel	Ant.	99% BW (MHz)
IEEE 802.11a	36	1	16.446
		2	16.421
	40	1	16.424
		2	16.428
	48	1	16.450
		2	16.413
	52	1	16.412
		2	16.409
	56	1	16.423
		2	16.411
	64	1	16.417
		2	16.402
	100	1	16.410
		2	16.421
	116	1	16.417
		2	16.408
	140	1	16.738
		2	16.447
	149	1	16.880
		2	16.470
IEEE 802.11n_20	36	1	17.559
		2	17.559
	40	1	17.542
		2	17.541
	48	1	17.542
		2	19.190
	52	1	17.546
		2	17.539
	56	1	17.535
		2	17.527
	64	1	17.533
		2	17.546
	100	1	17.544
		2	17.553
	116	1	17.529
		2	17.539
	140	1	17.548
		2	17.544
	149	1	17.669
		2	17.593
IEEE 802.11n_40	38	1	36.023
		2	36.076
	46	1	36.042
		2	36.026
	54	1	36.094
		2	36.068
	62	1	36.101
		2	36.085
	102	1	36.090
		2	36.114
	110	1	36.052
		2	36.113
	134	1	36.059
		2	36.144
	151	1	36.754

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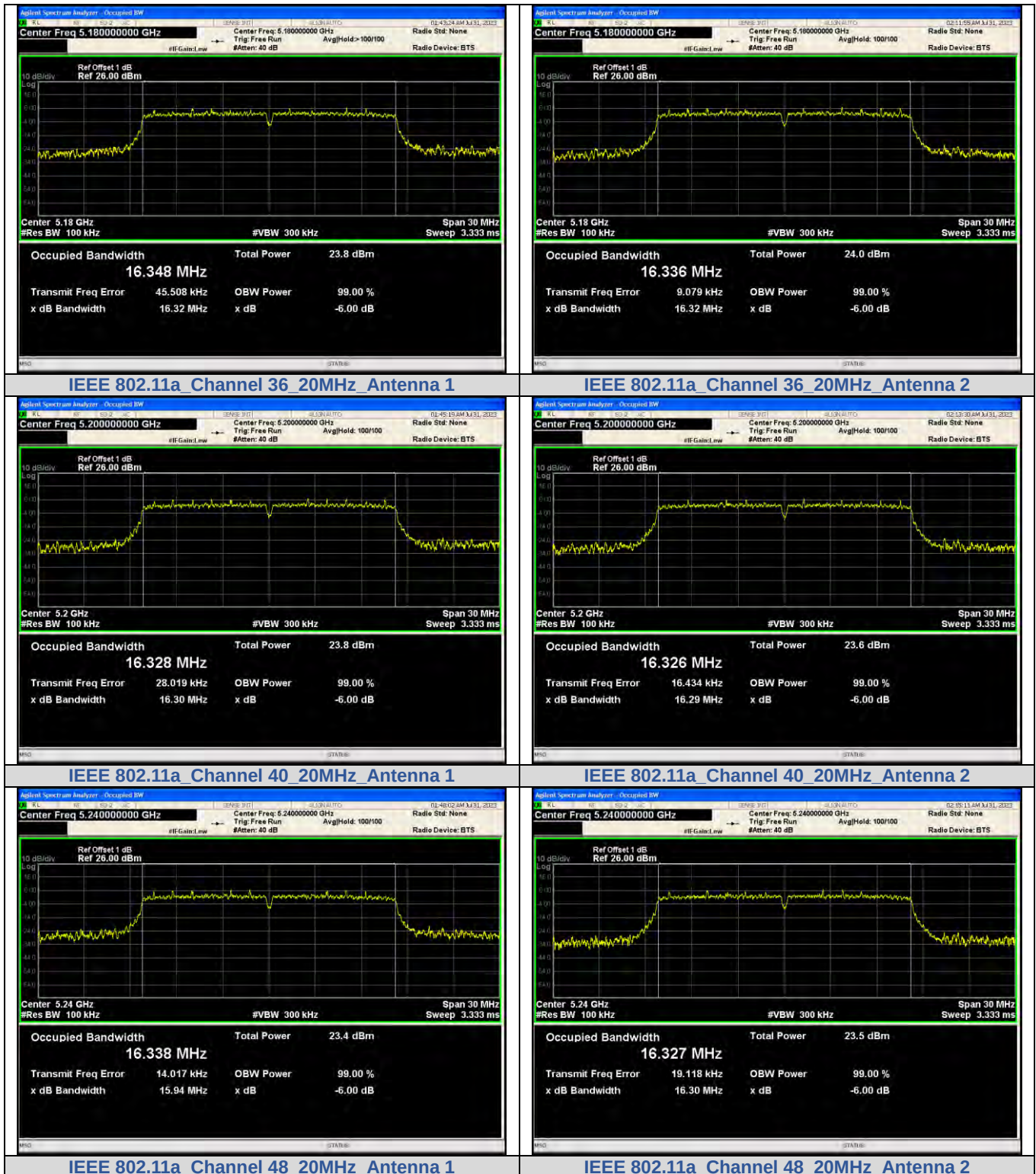
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		2	36.244
	159	1	36.887
IEEE 802.11ac_20		2	36.415
	36	1	17.613
		2	17.646
	40	1	17.616
		2	17.615
	48	1	17.637
		2	17.581
	52	1	17.650
		2	17.603
	56	1	17.558
		2	17.590
	64	1	17.548
		2	17.591
	100	1	17.568
		2	17.613
	116	1	17.543
		2	17.583
	140	1	18.137
		2	17.673
	149	1	18.862
		2	17.590
IEEE 802.11ac_40	157	1	17.713
		2	17.853
	165	1	17.792
		2	18.024
	38	1	36.100
		2	36.104
	46	1	36.113
		2	36.095
	54	1	36.098
		2	36.112
	62	1	36.081
		2	36.105
	102	1	36.110
		2	36.157
	110	1	36.113
		2	36.146
	134	1	36.152
		2	36.190
	151	1	36.359
		2	36.760
IEEE 802.11ac_80	159	1	36.300
		2	36.585
	42	1	75.687
		2	75.703
	58	1	75.618
		2	76.266
	106	1	75.665
		2	76.228
	122	1	75.699
		2	76.284
	155	1	76.632
		2	76.503

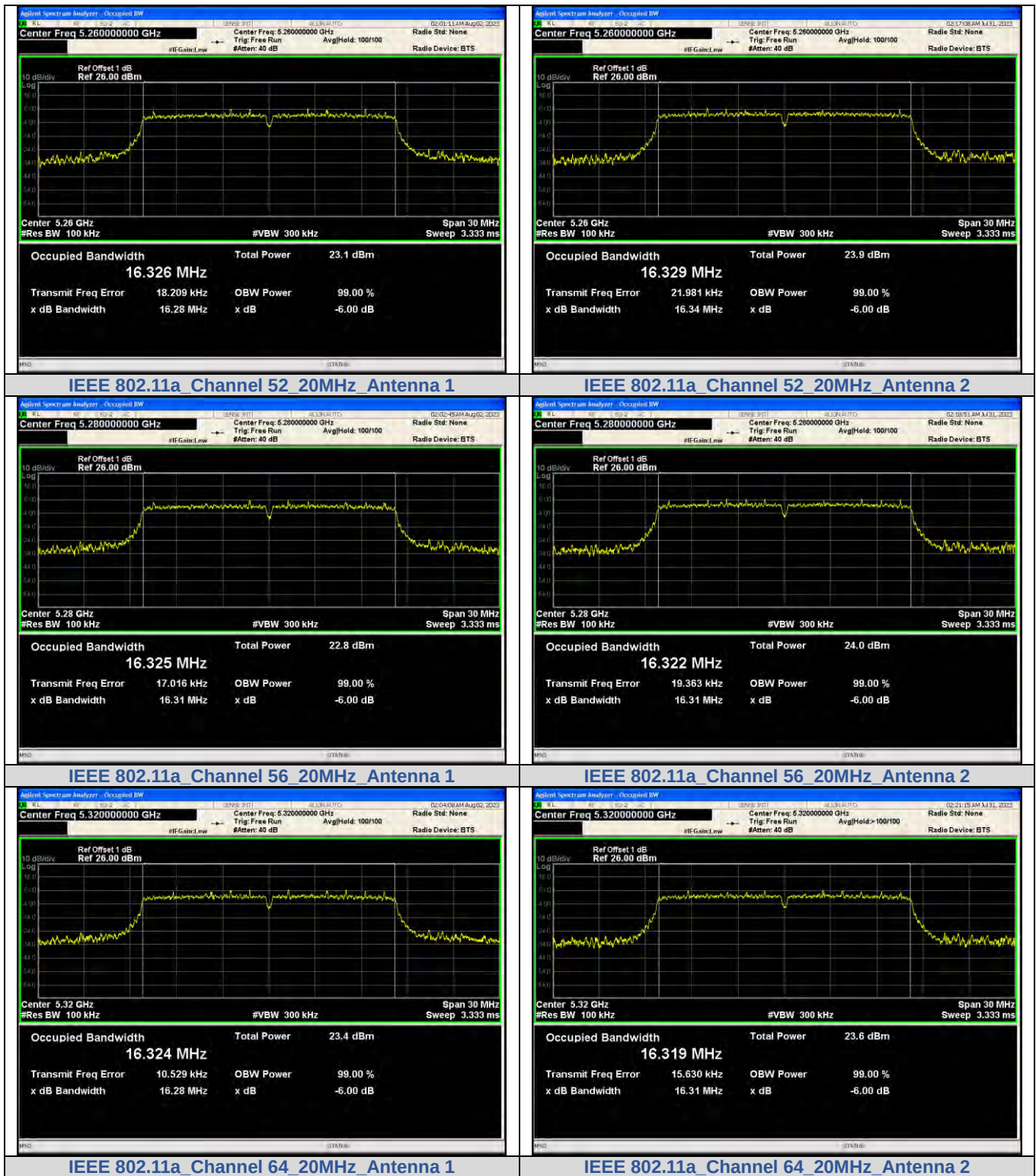


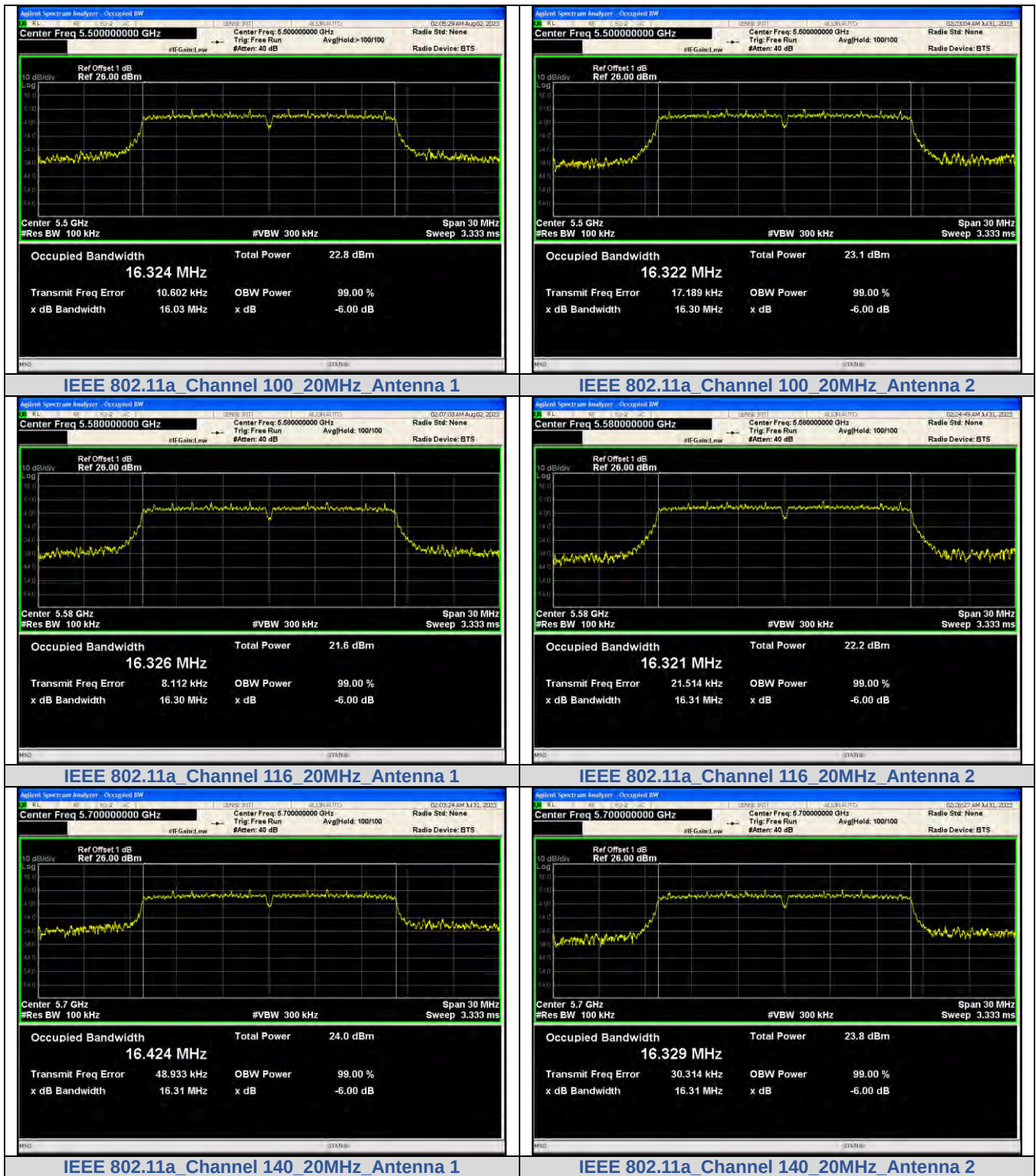
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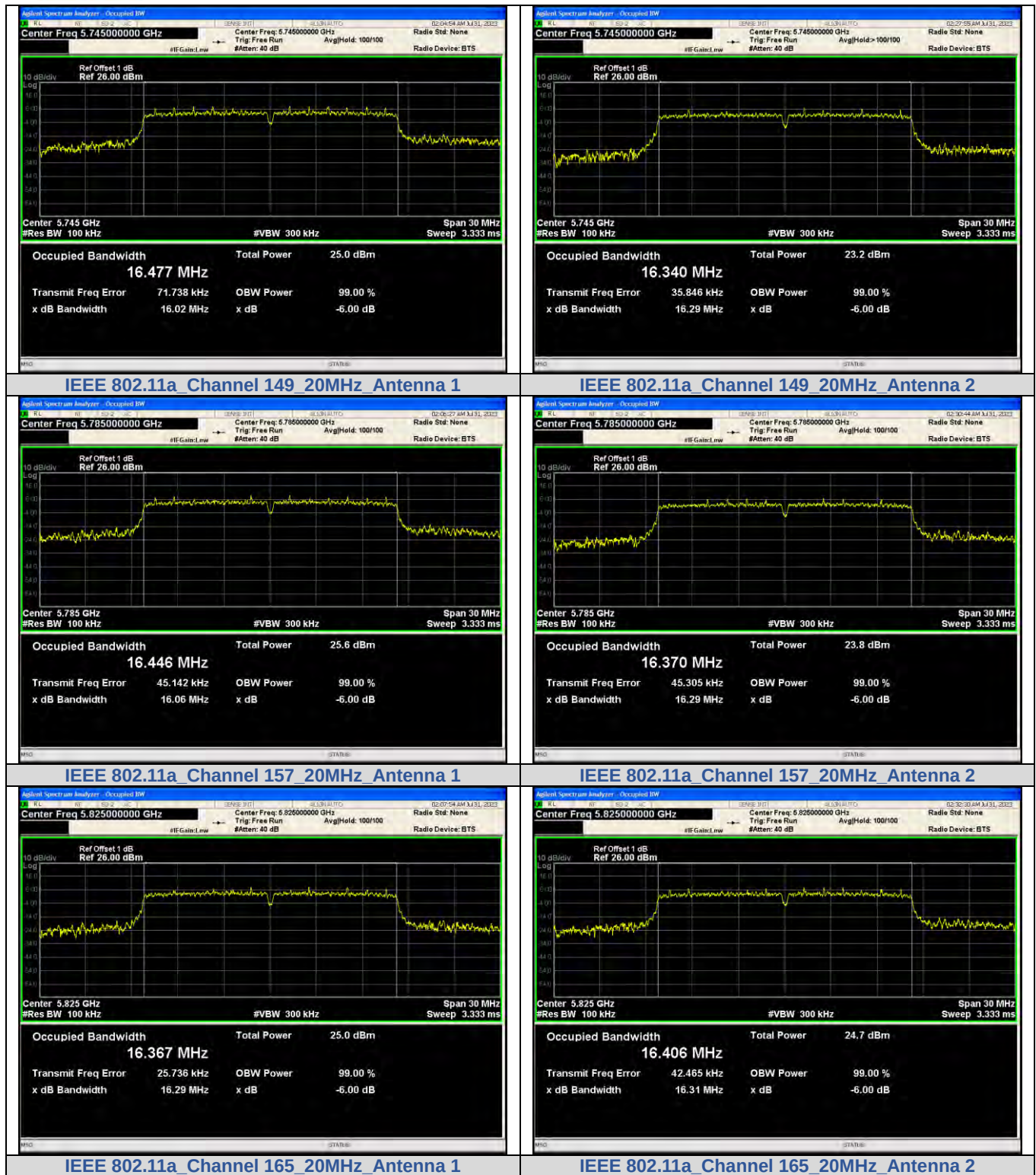


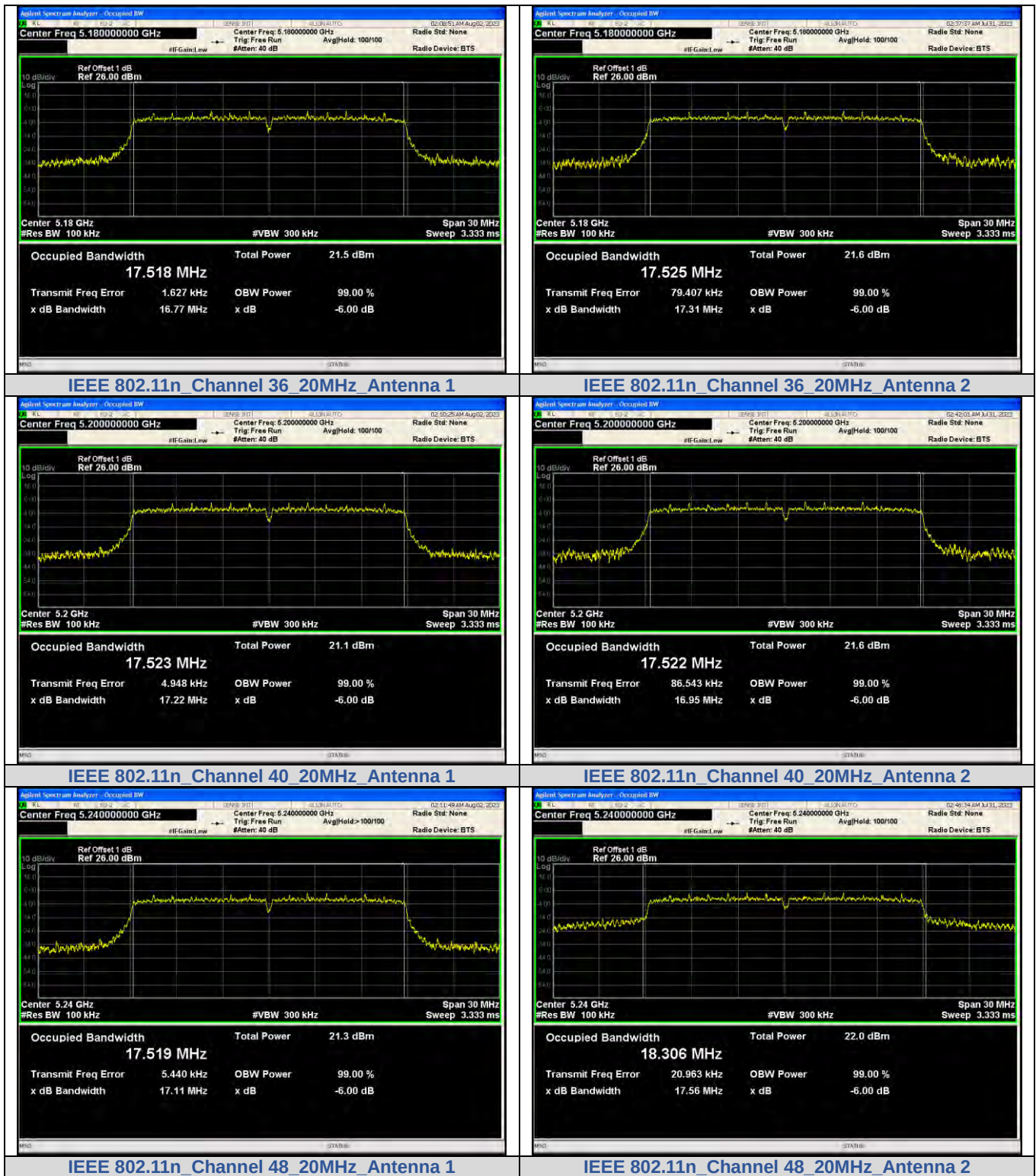
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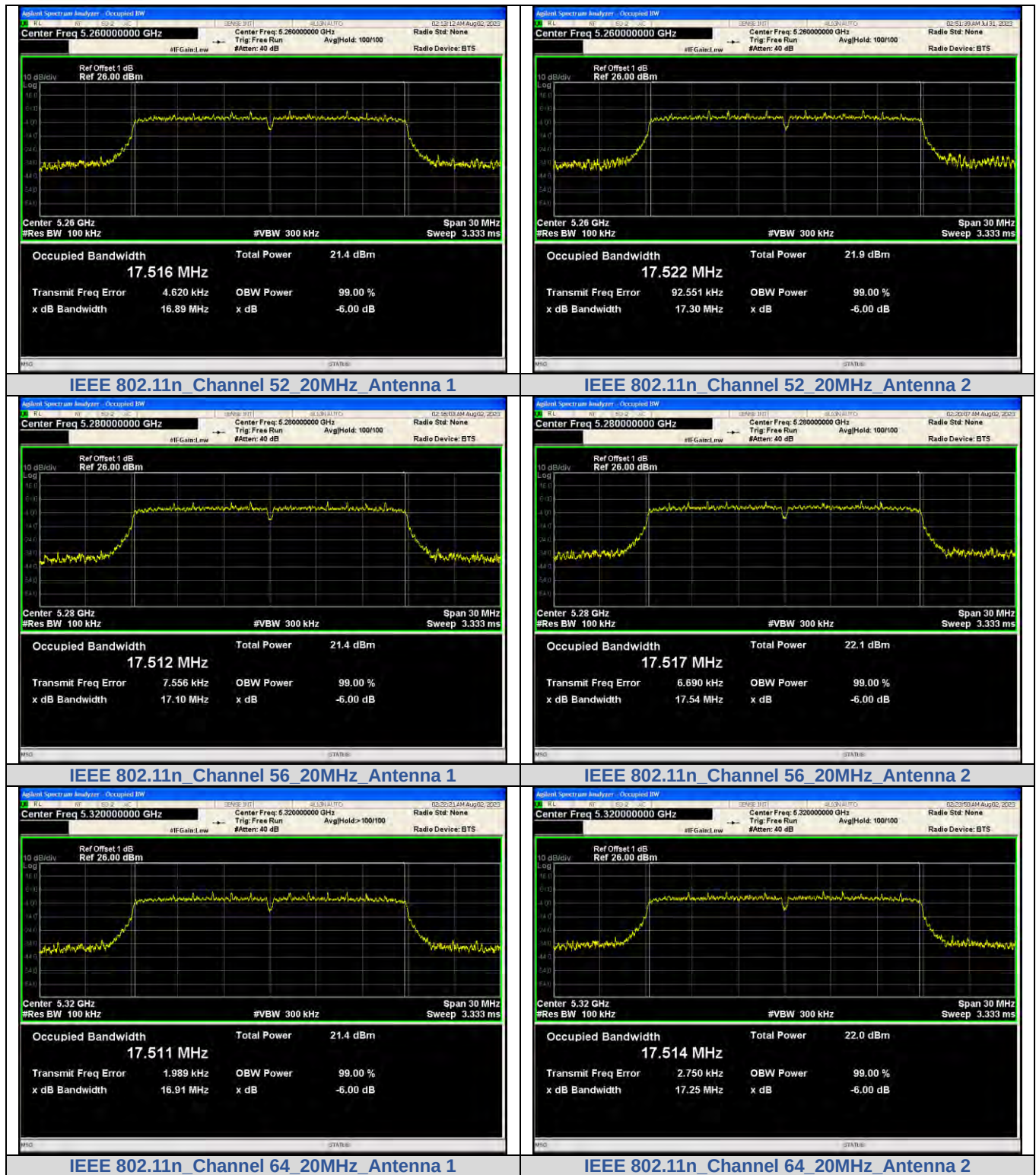
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China
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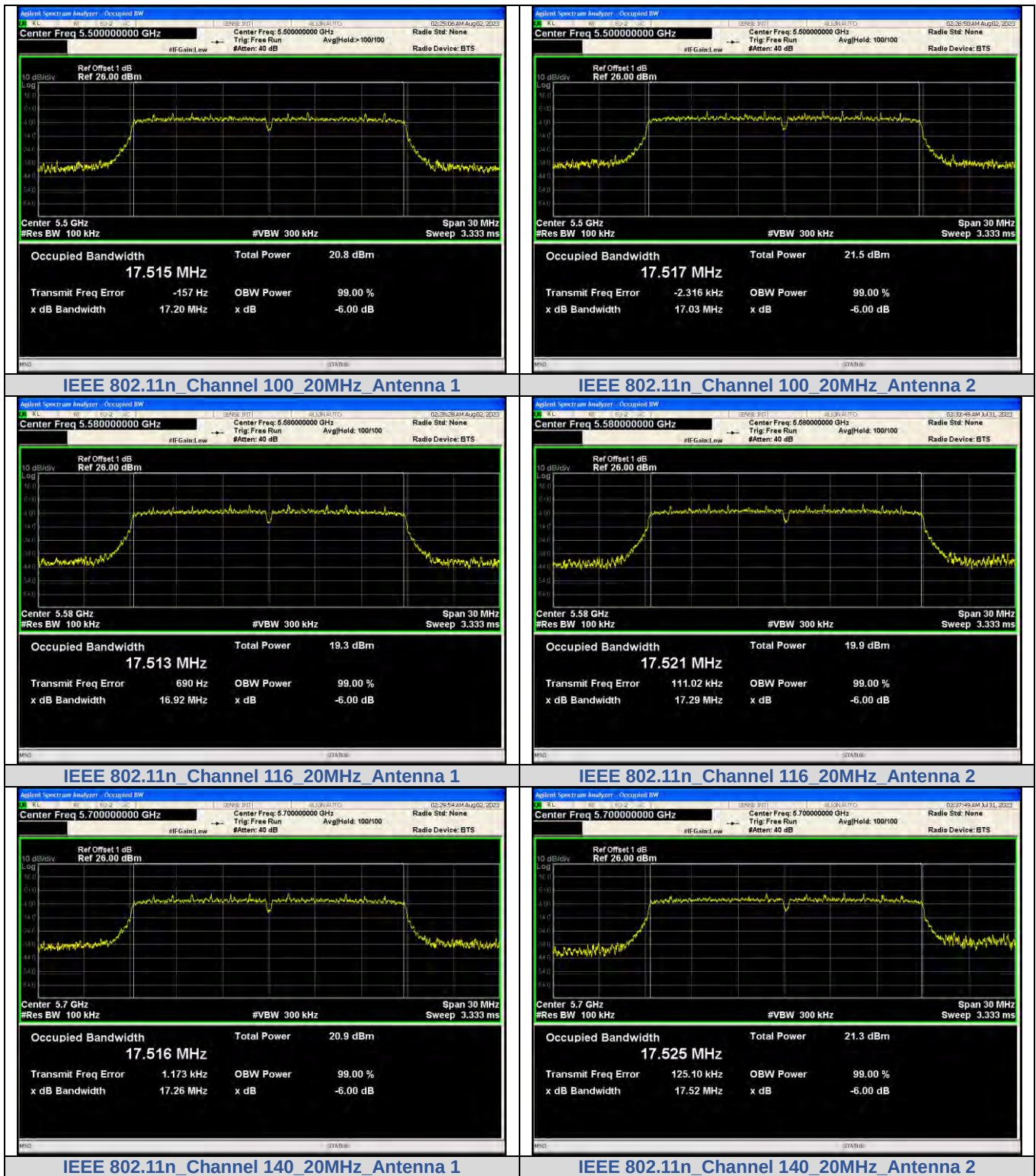


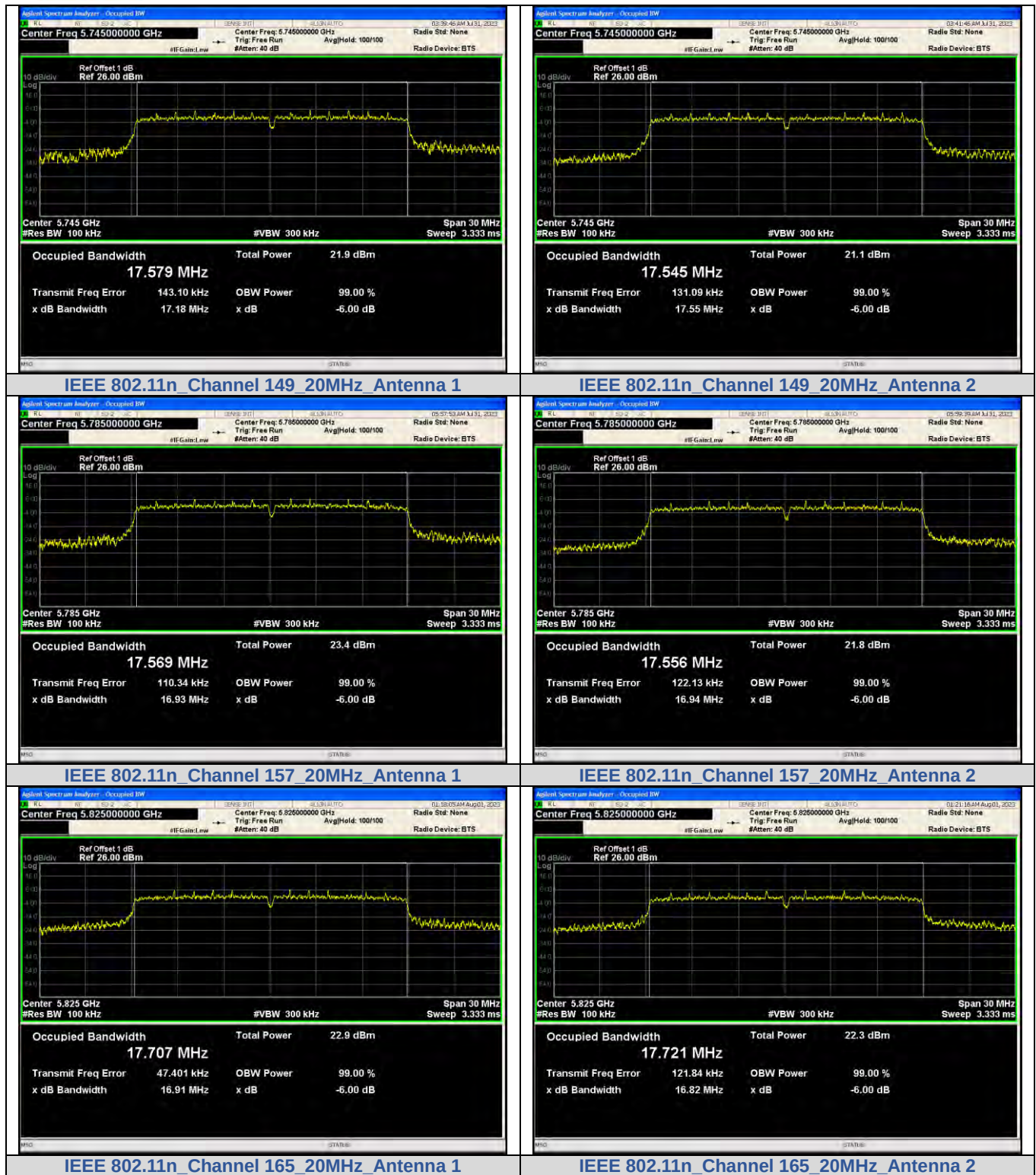


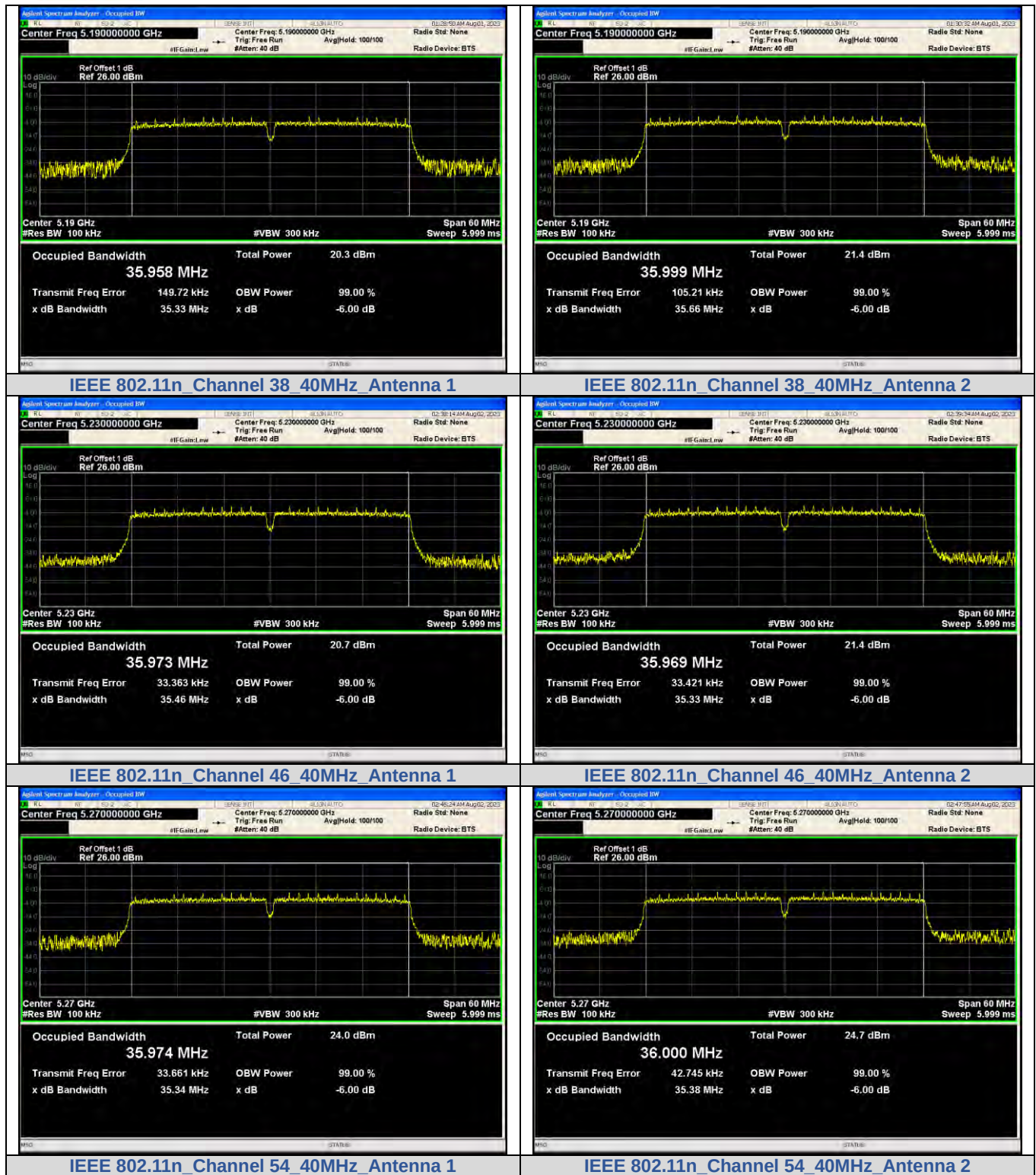


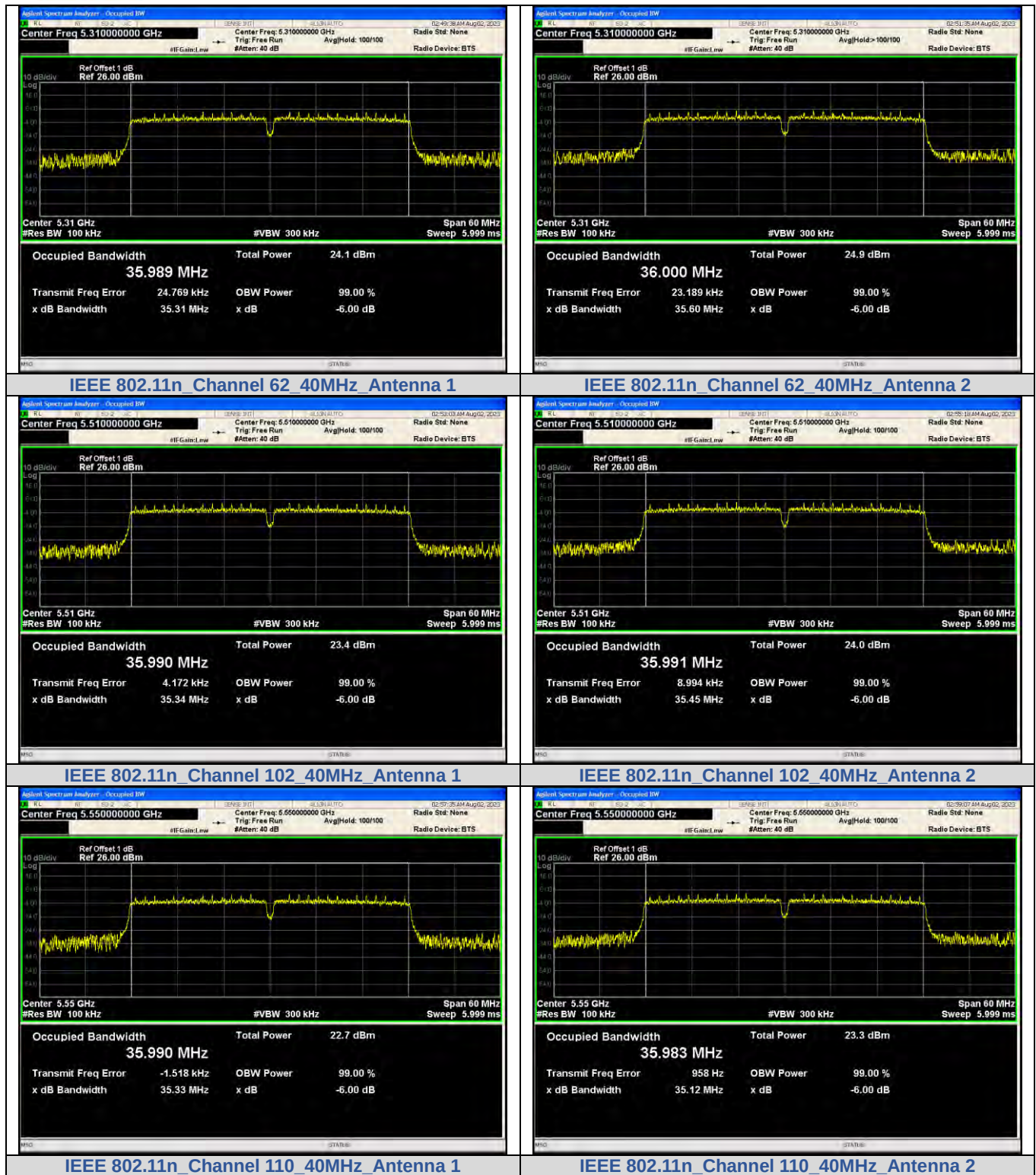


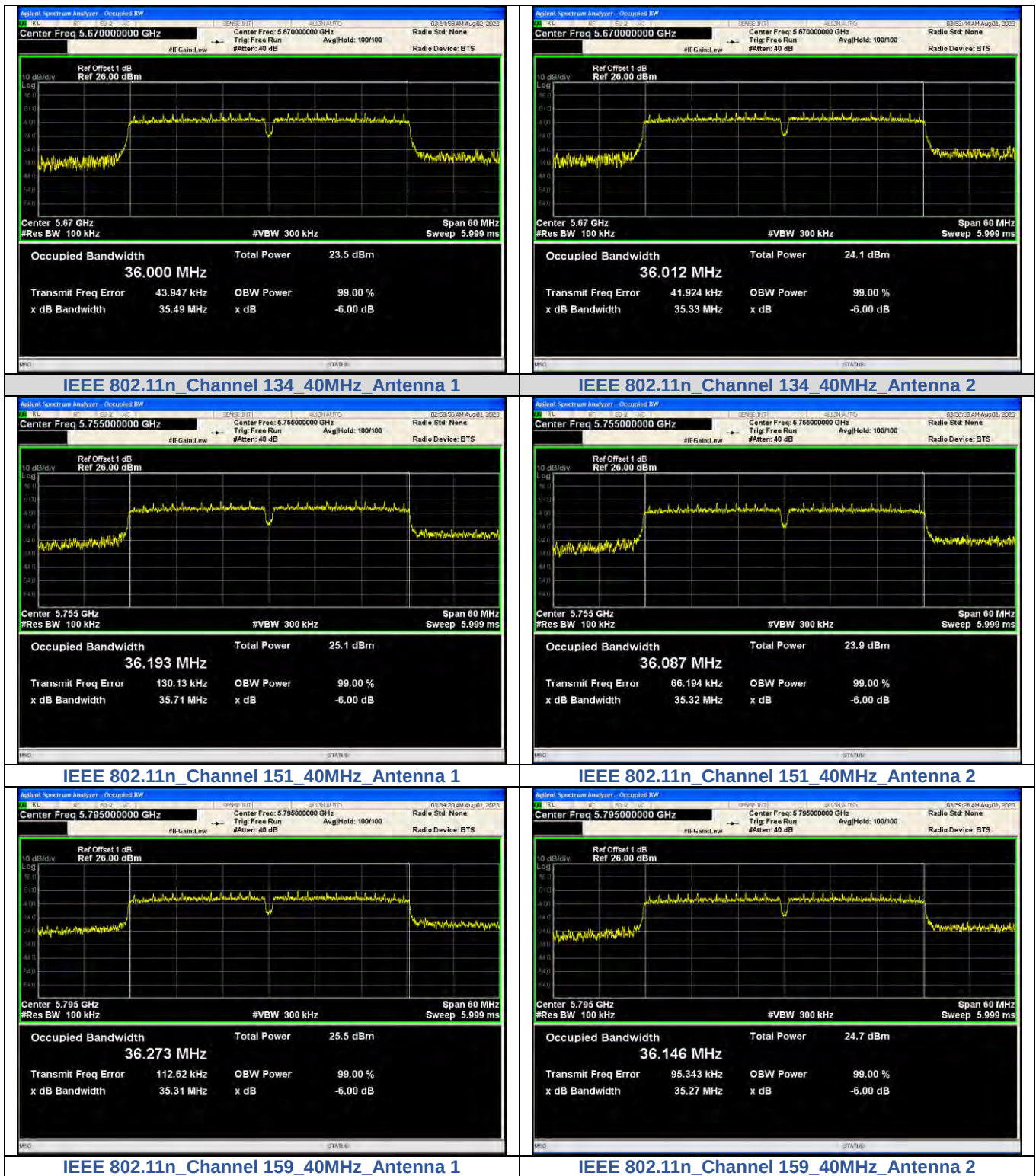


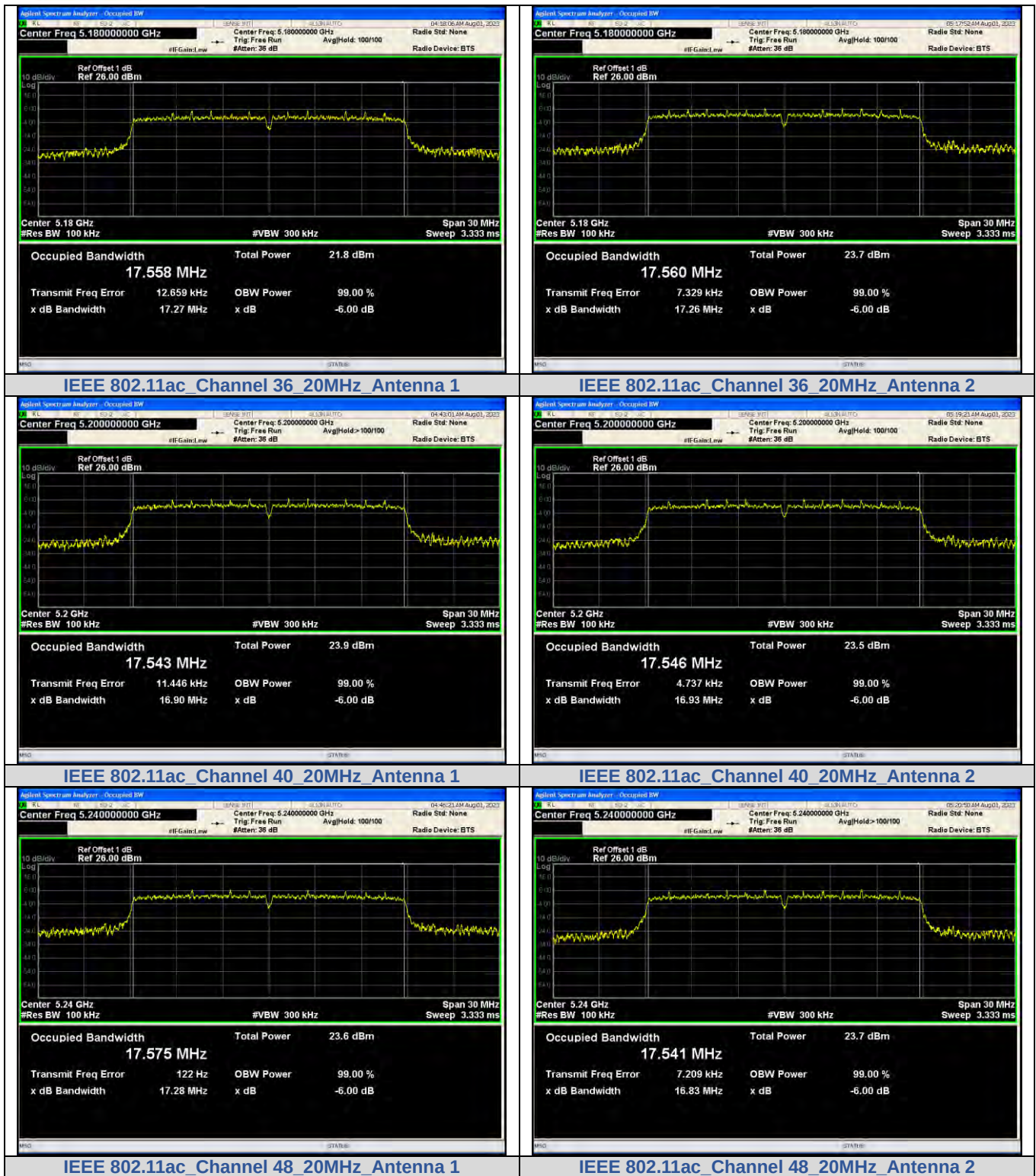


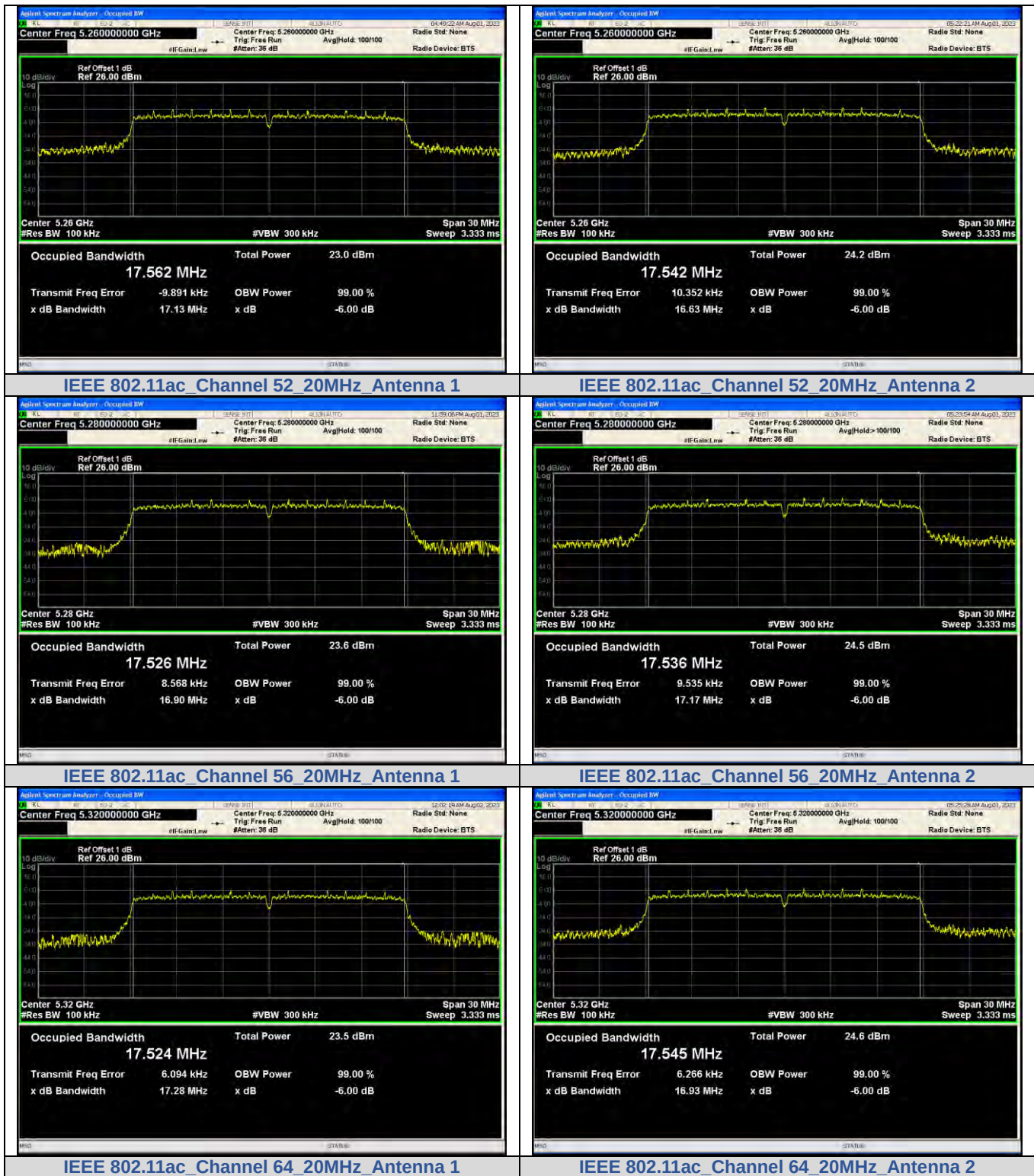












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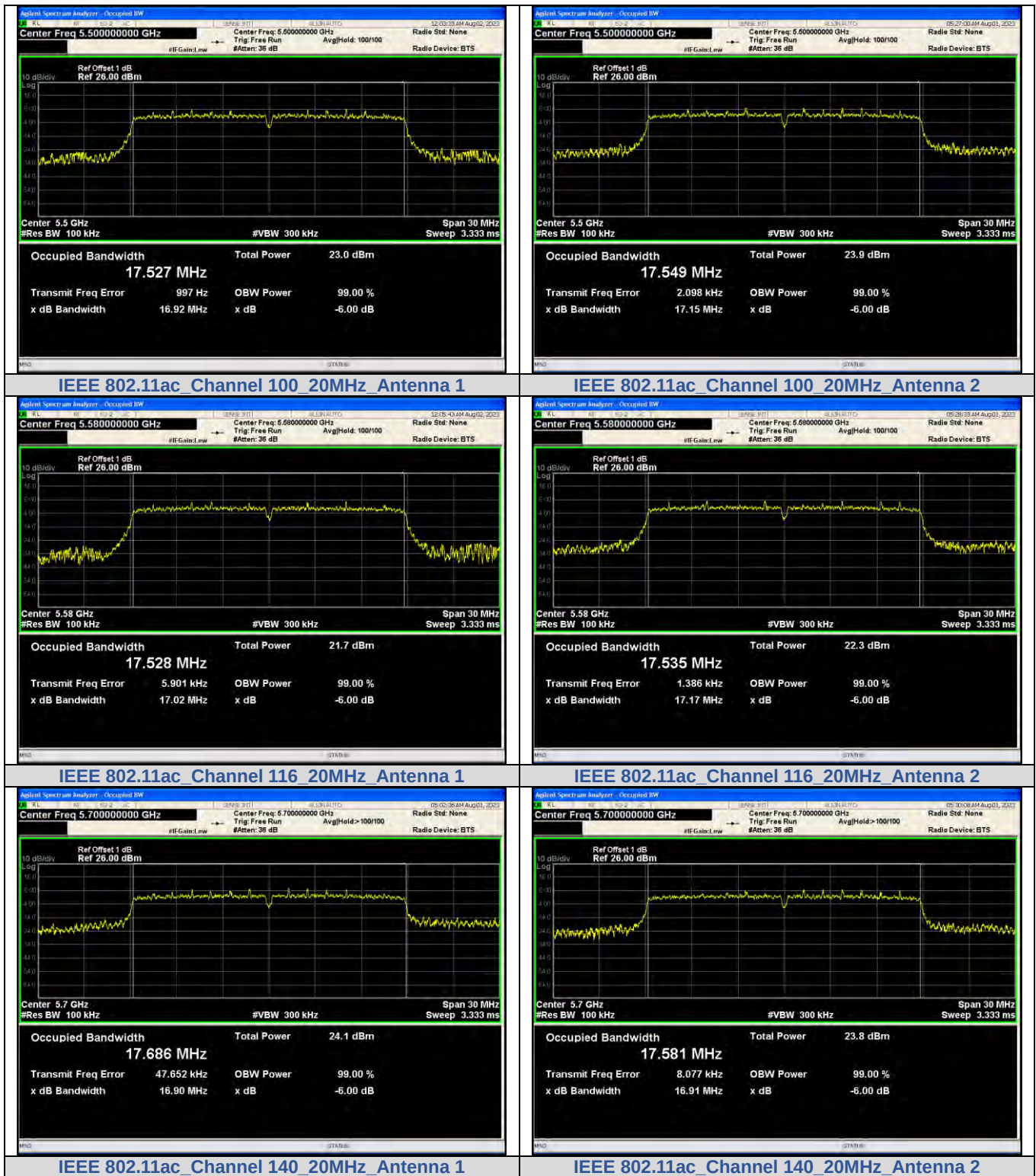
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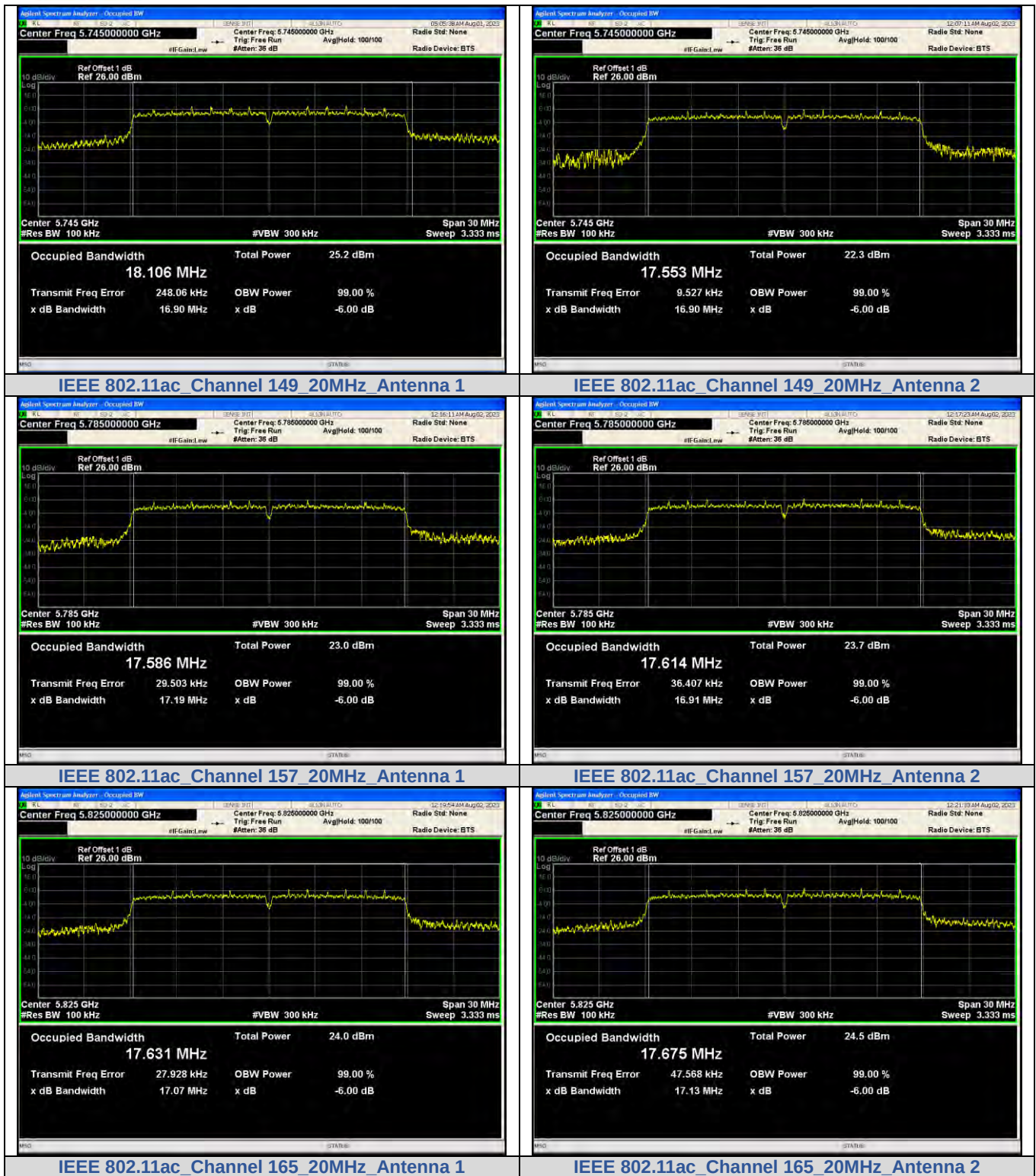
Tel.: (86)755-27521059

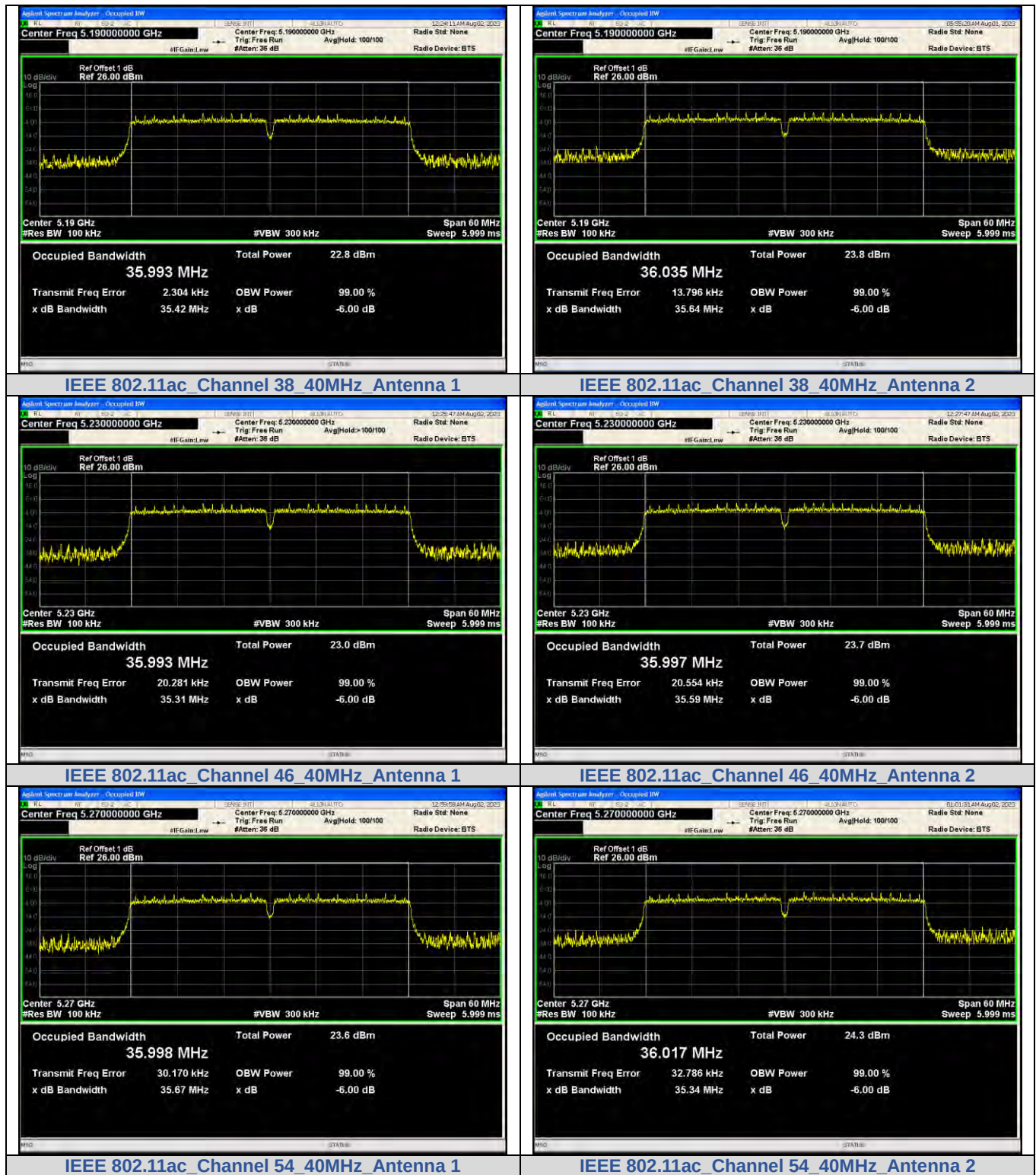
Fax: (86)755-27521011

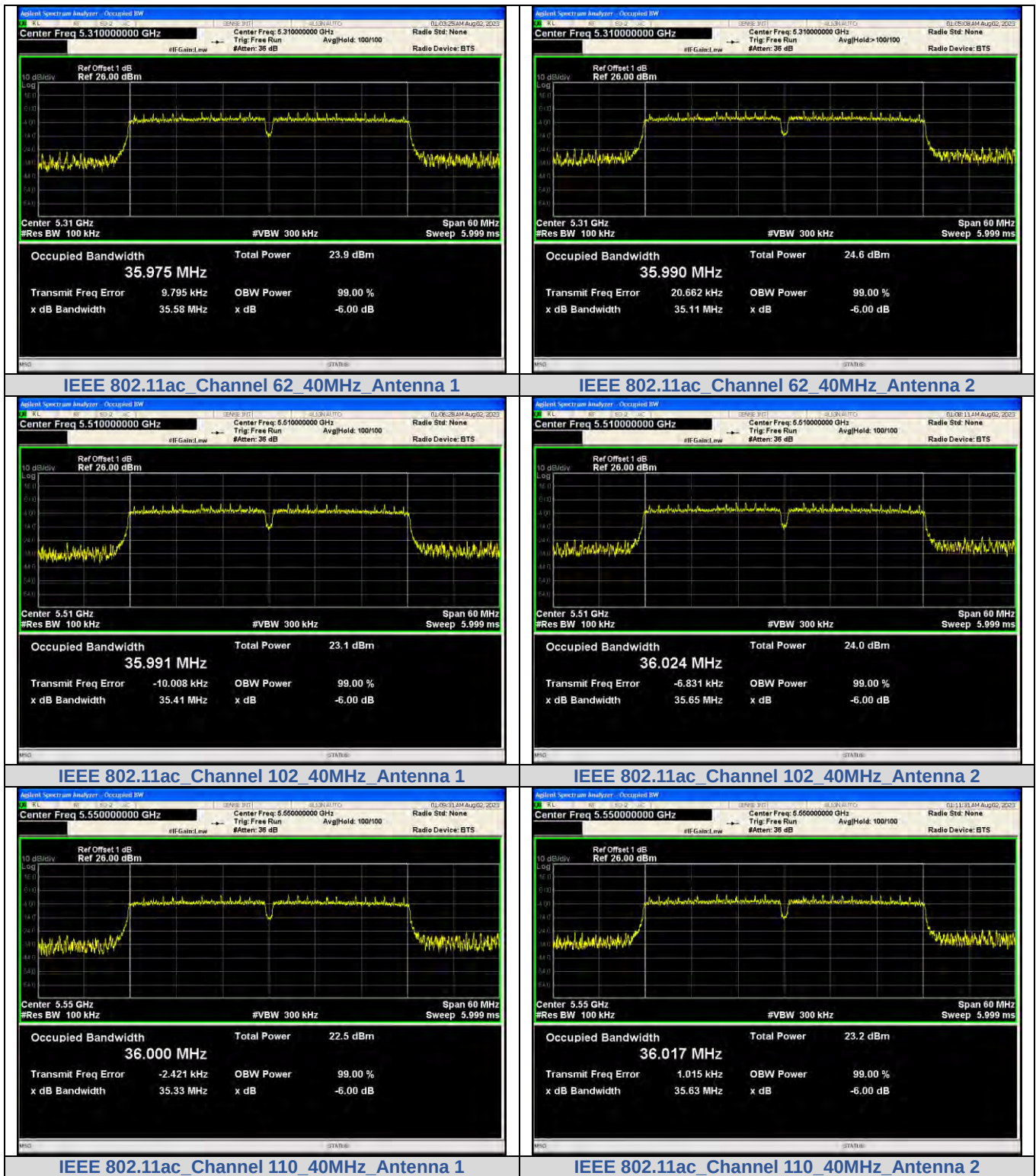
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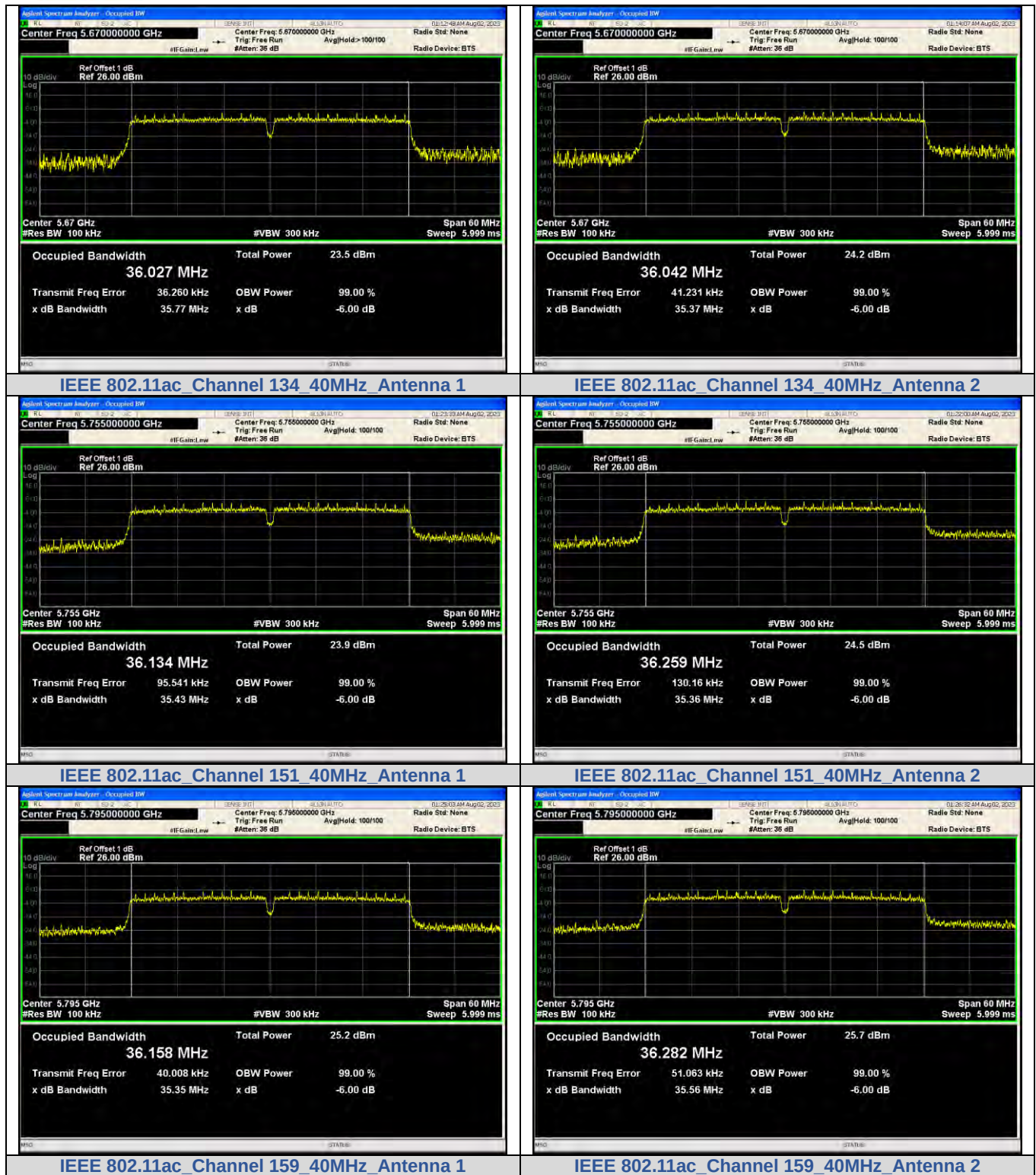
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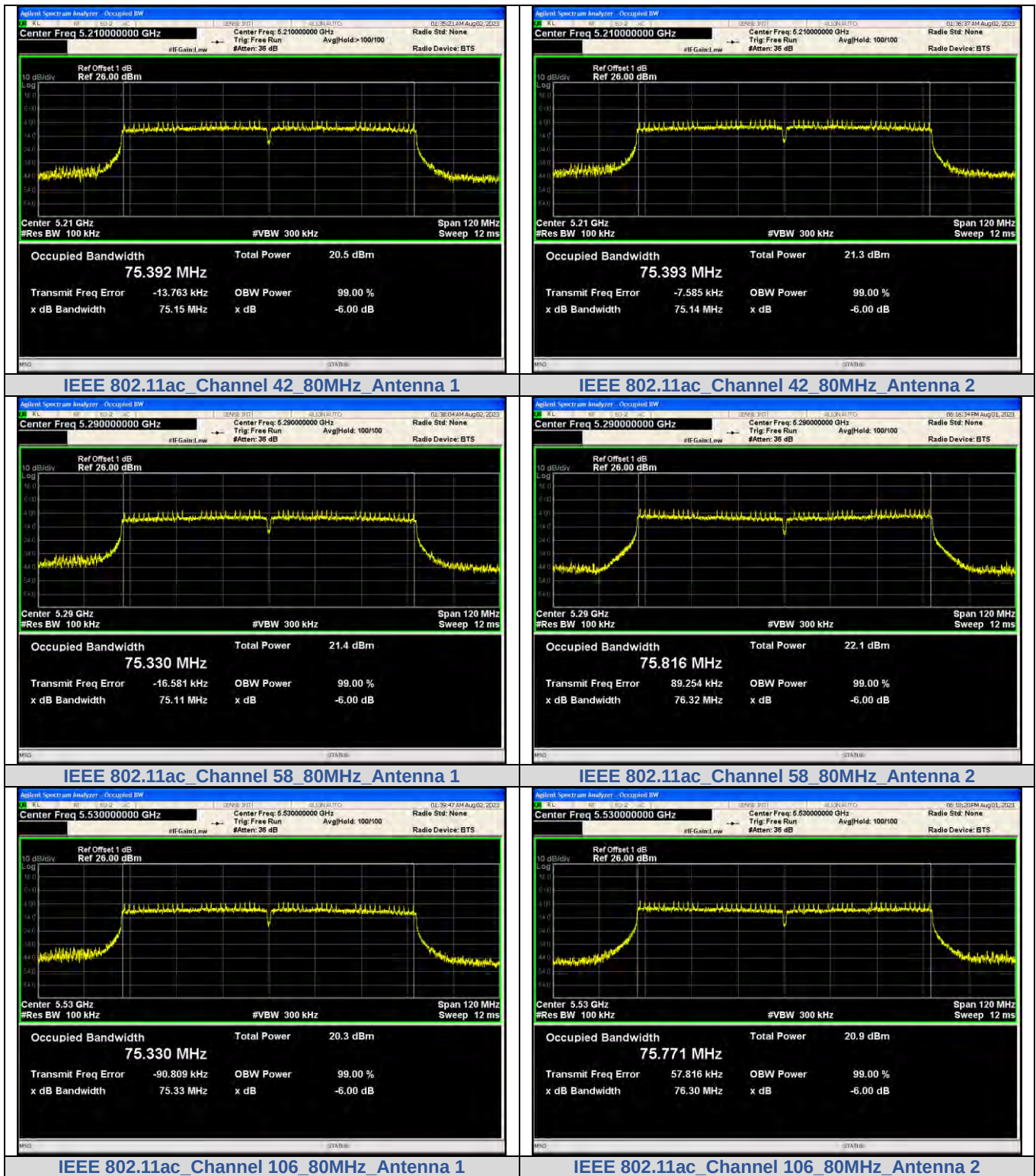












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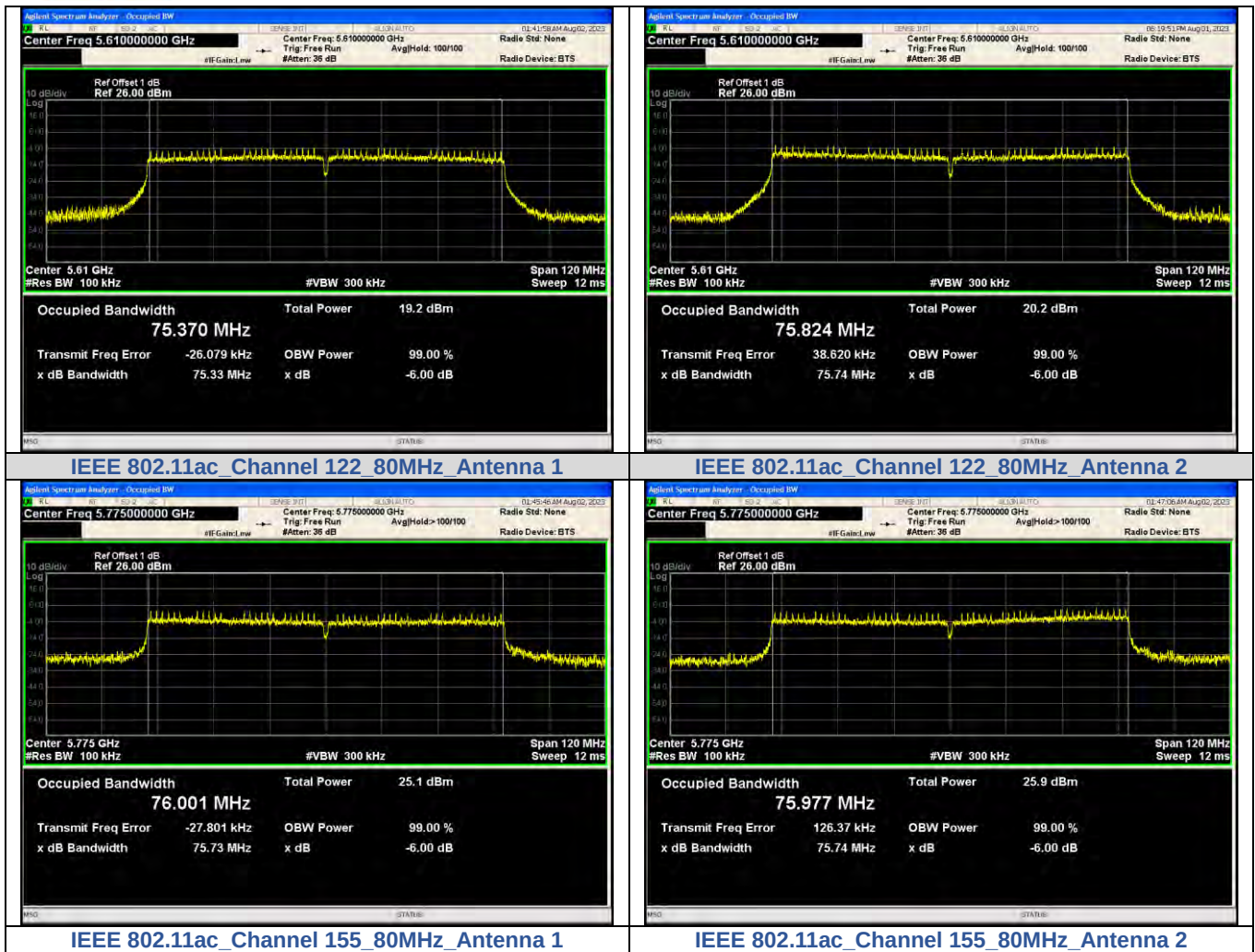
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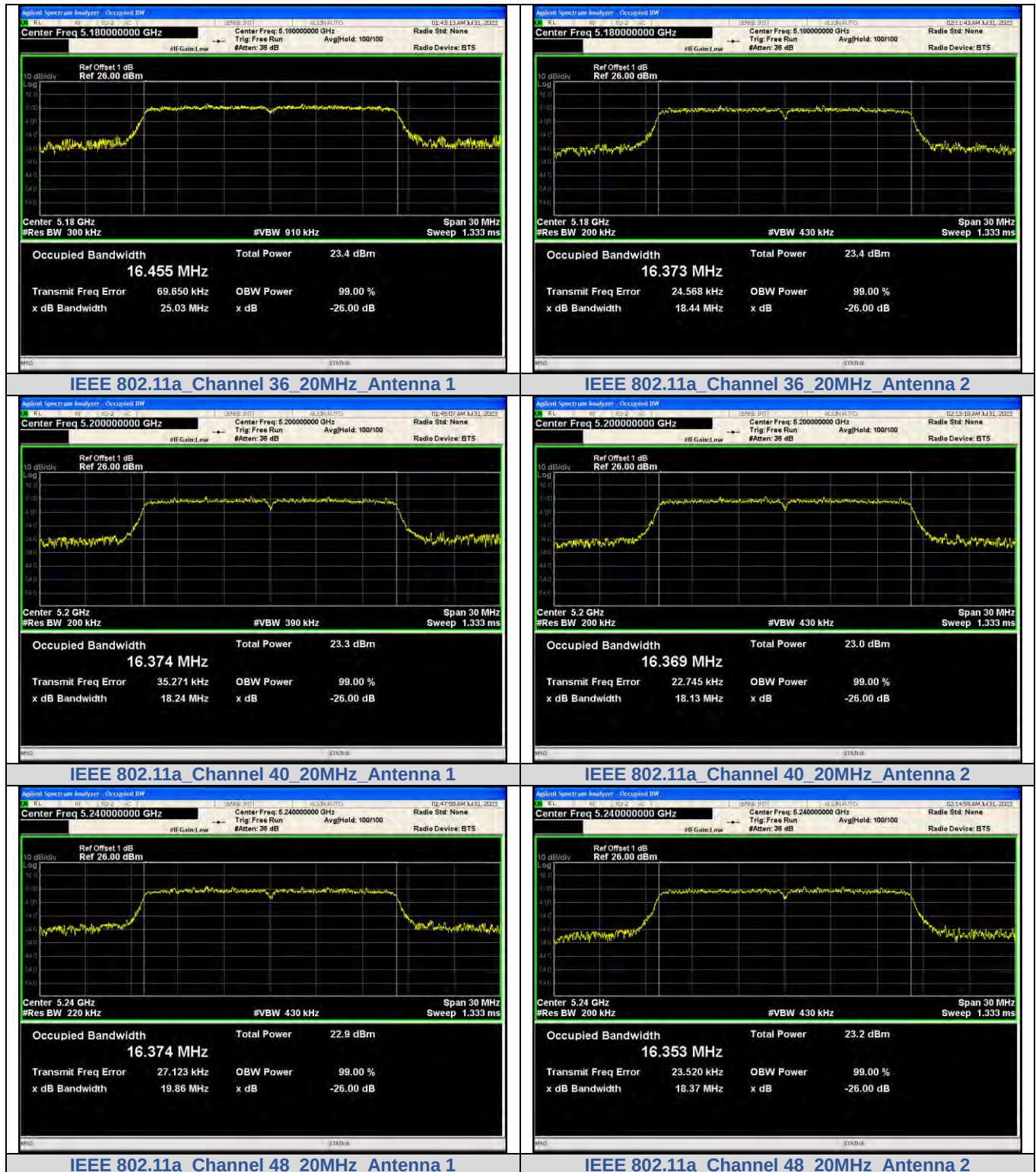
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26dB Bandwidth:

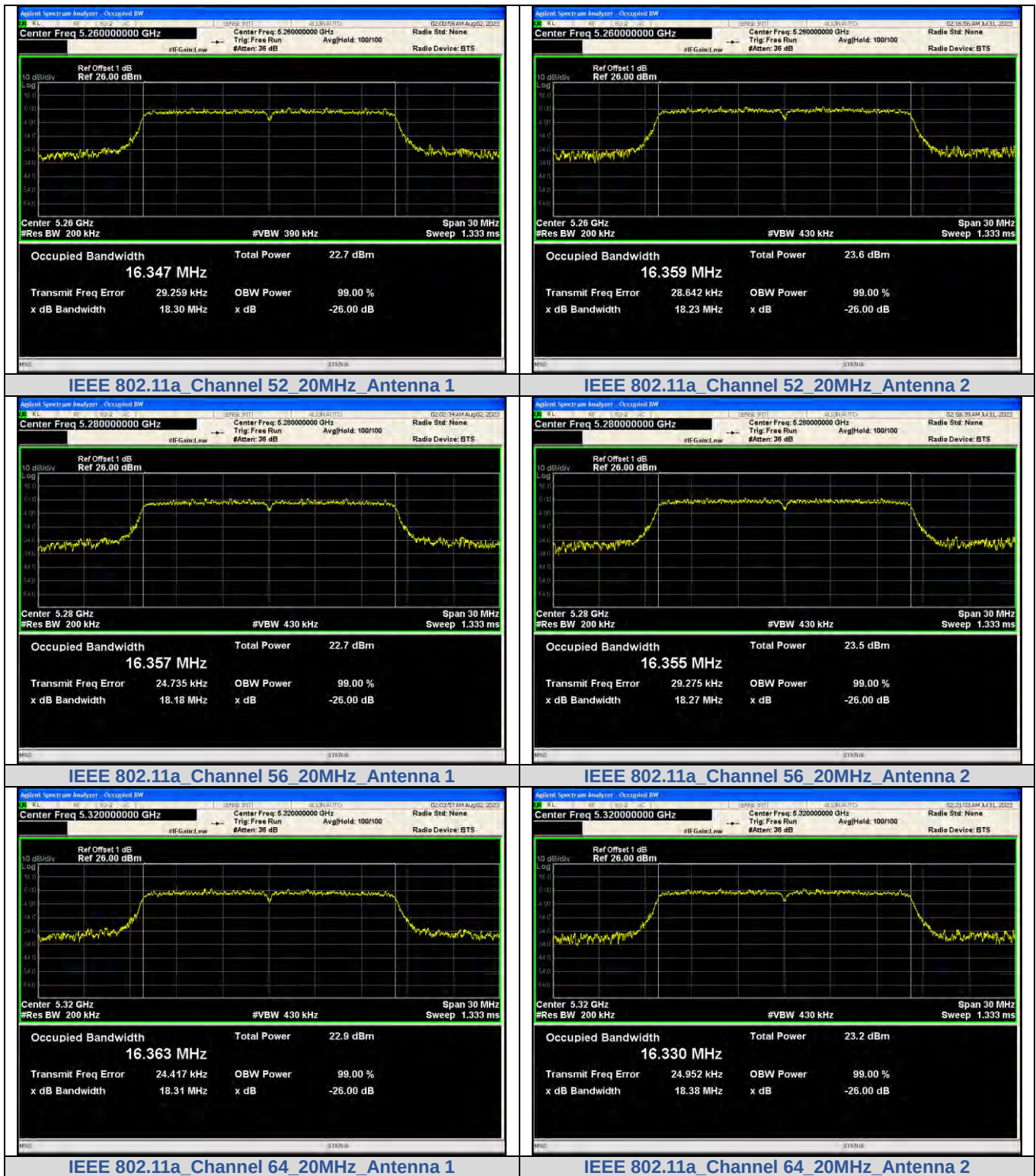


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