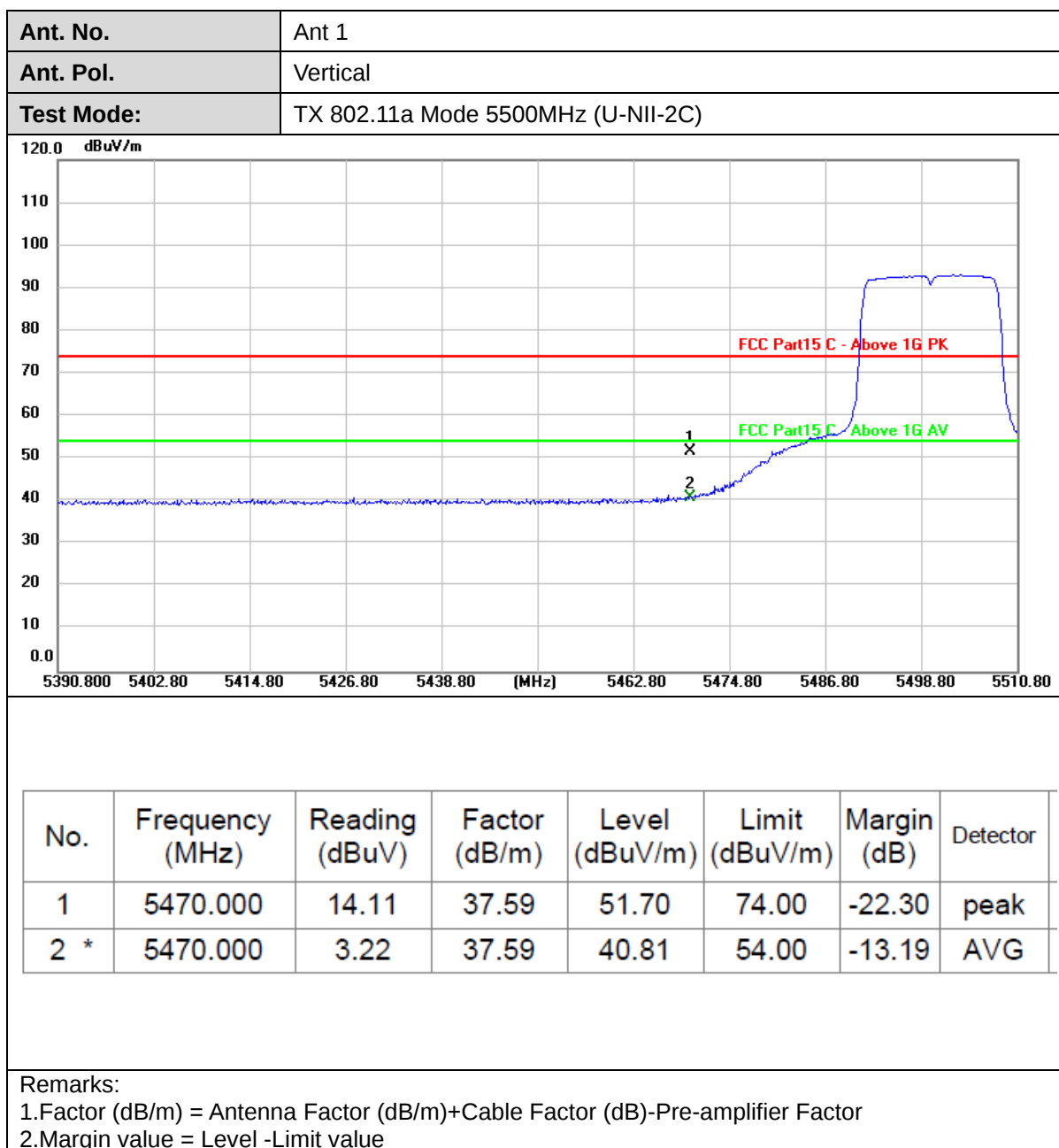
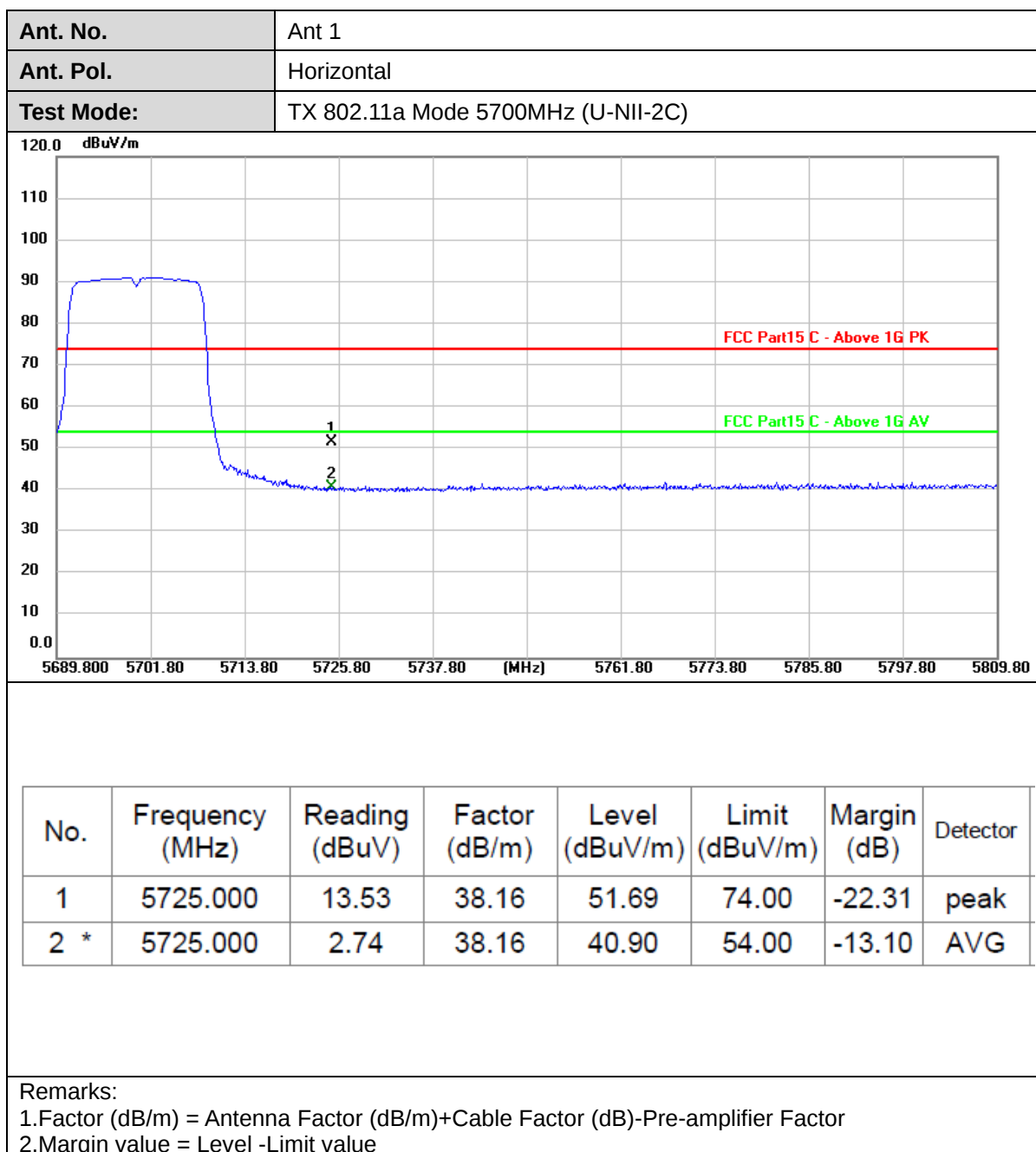
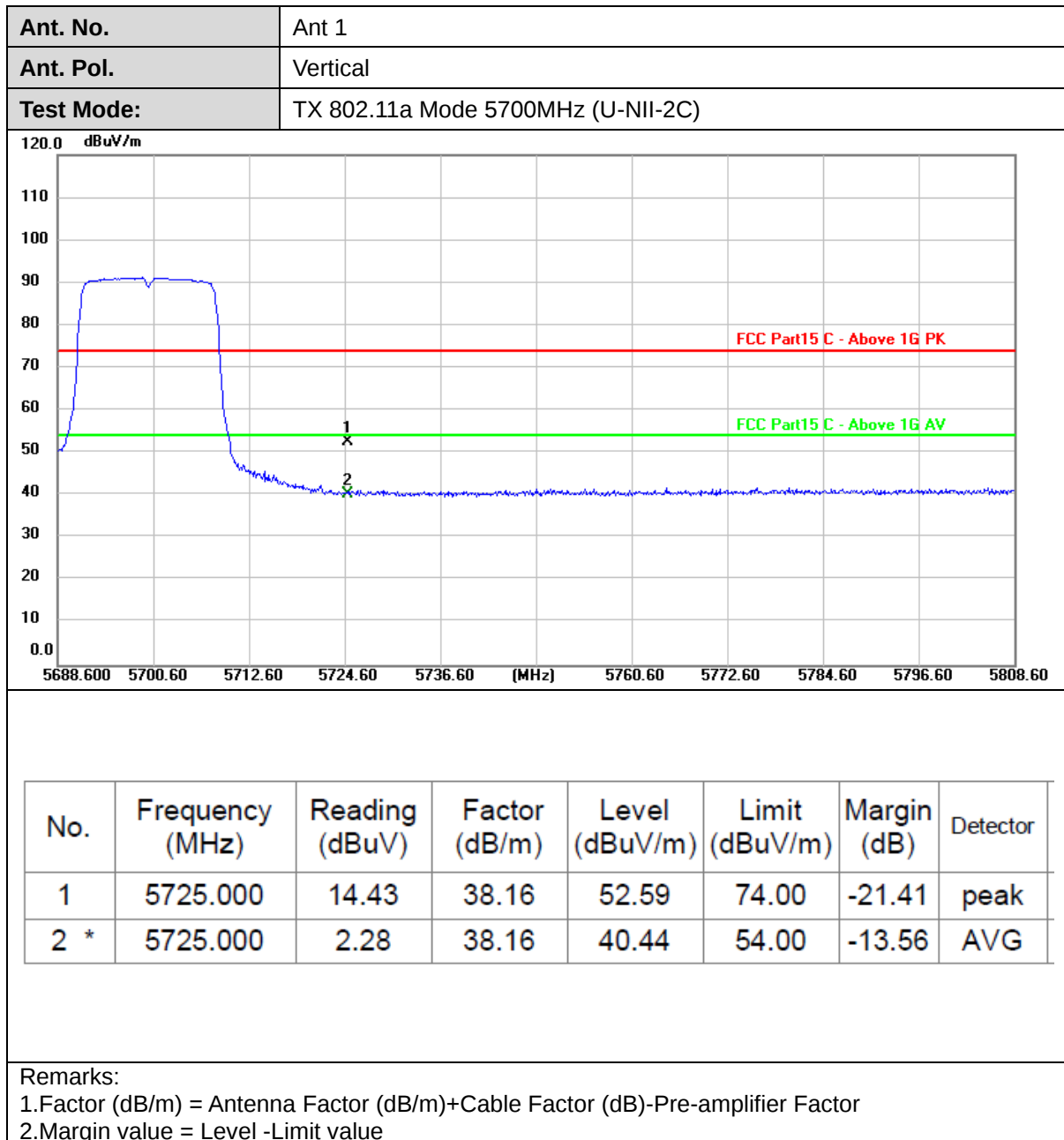
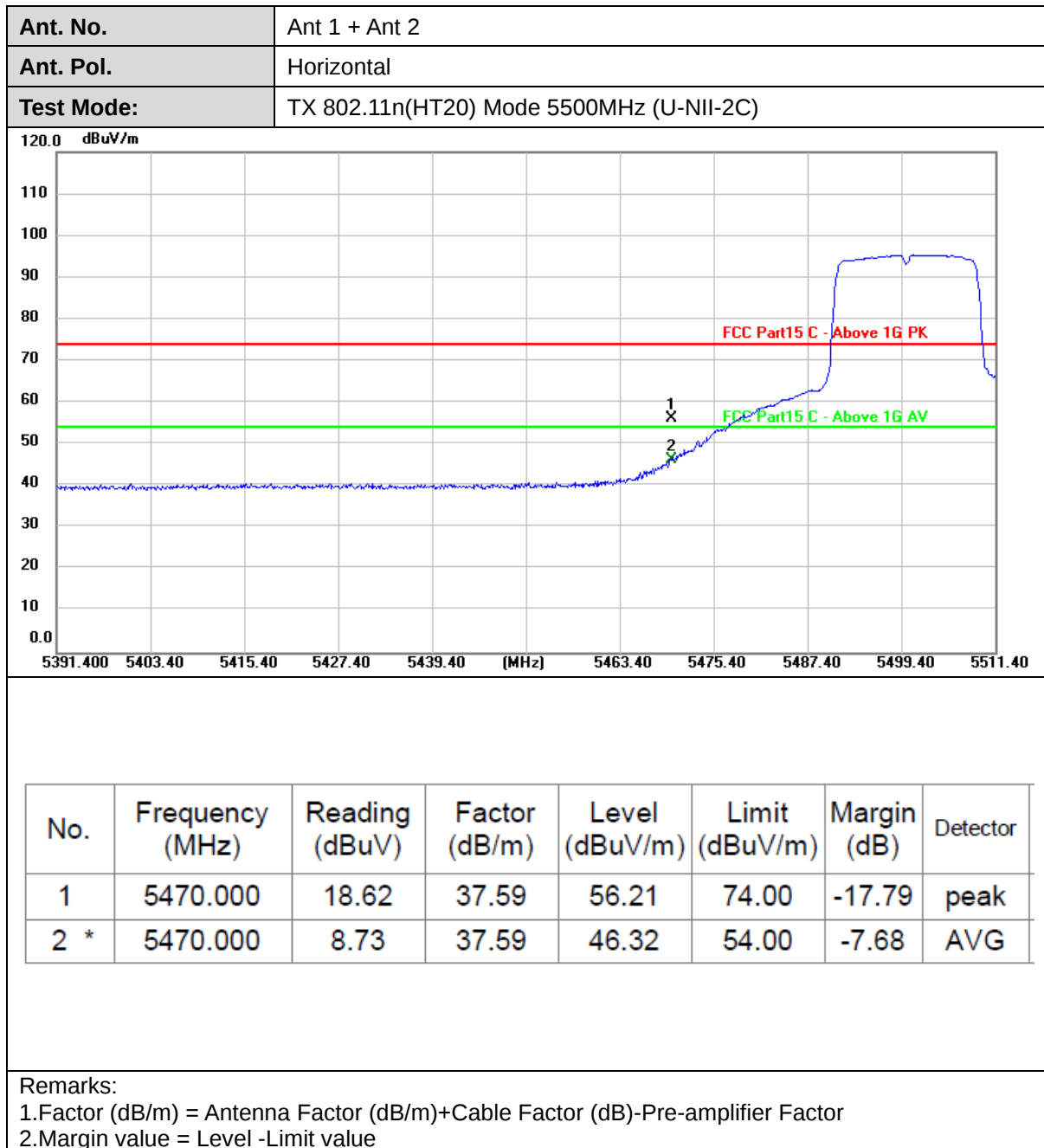
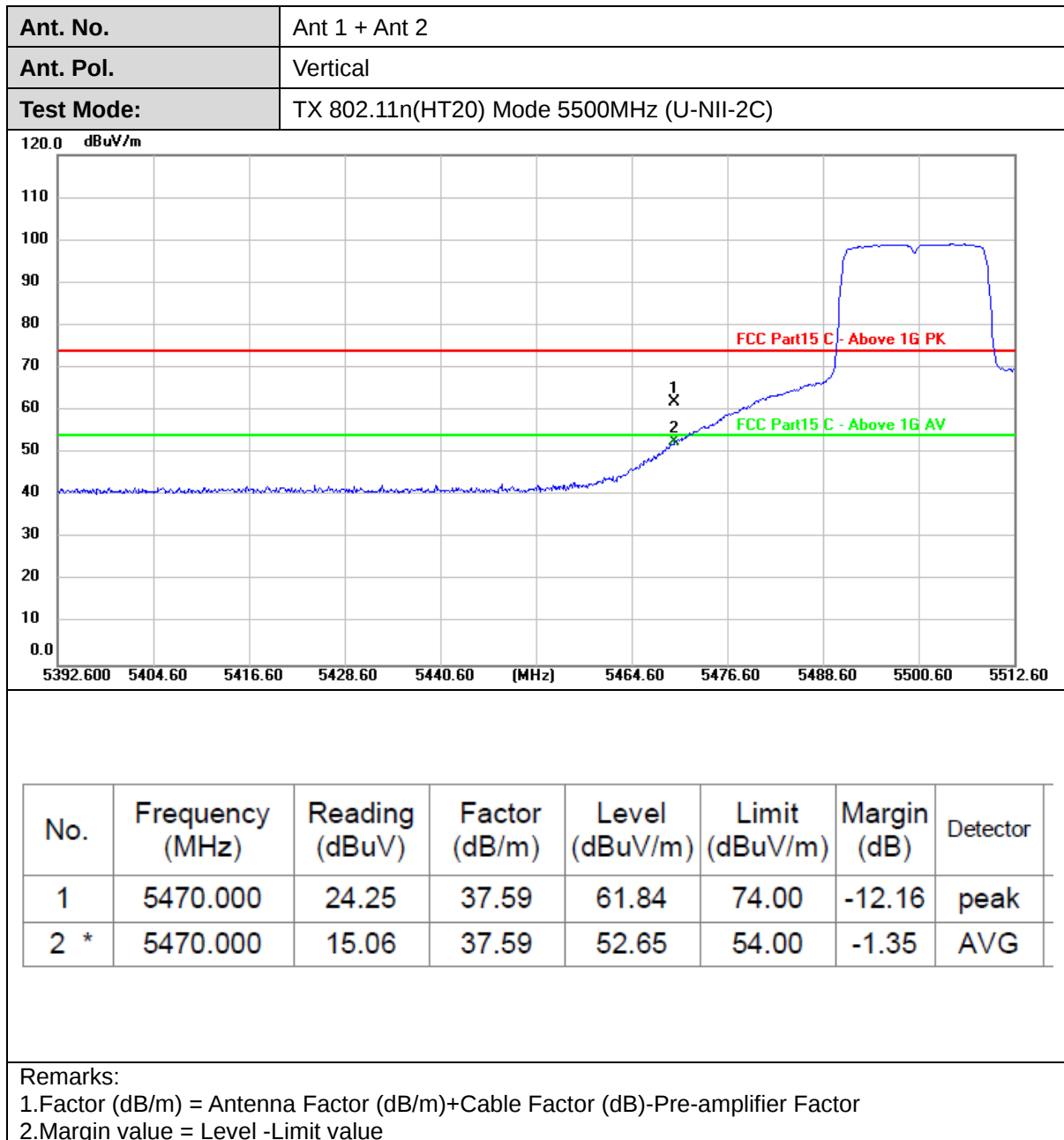


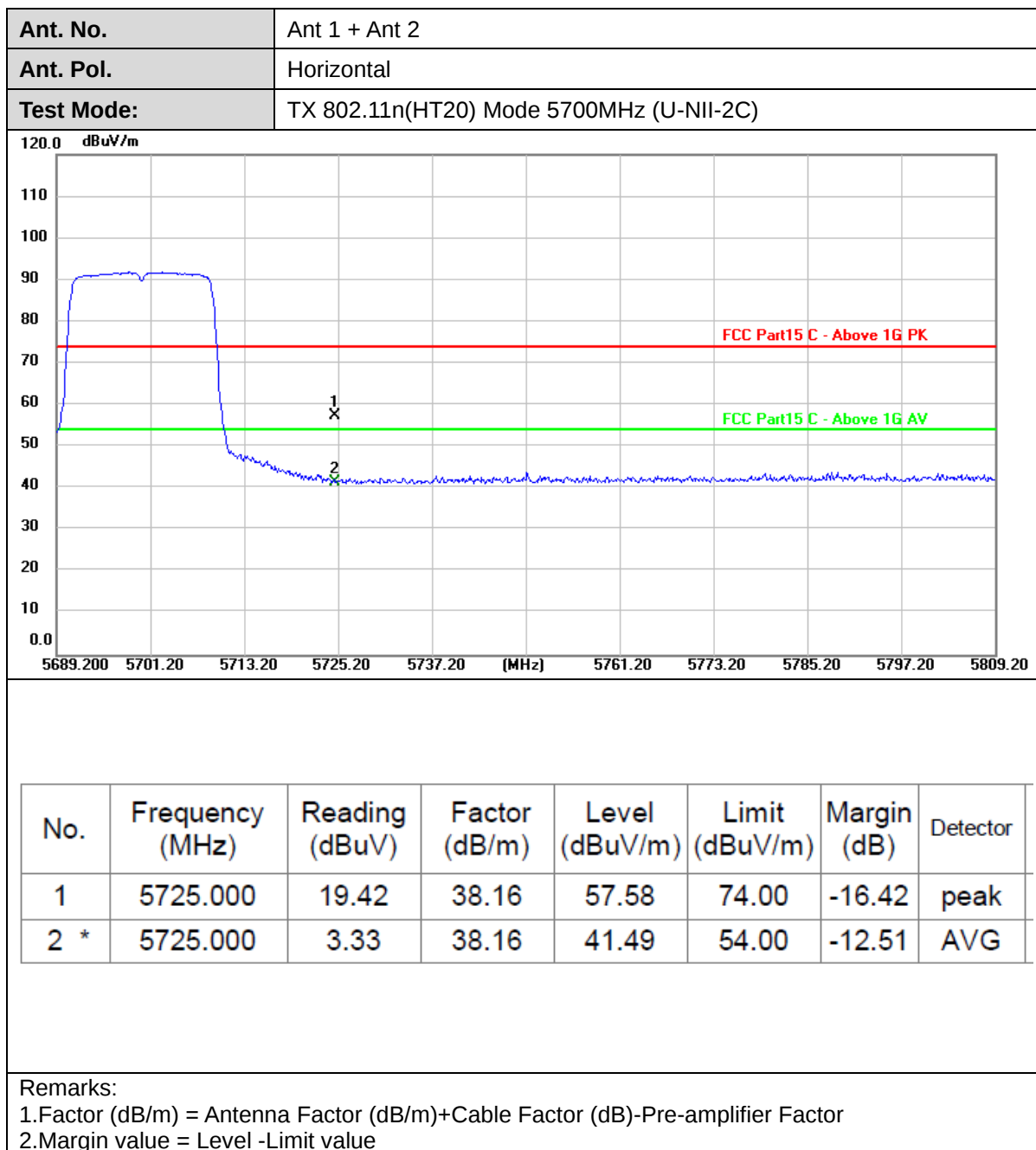


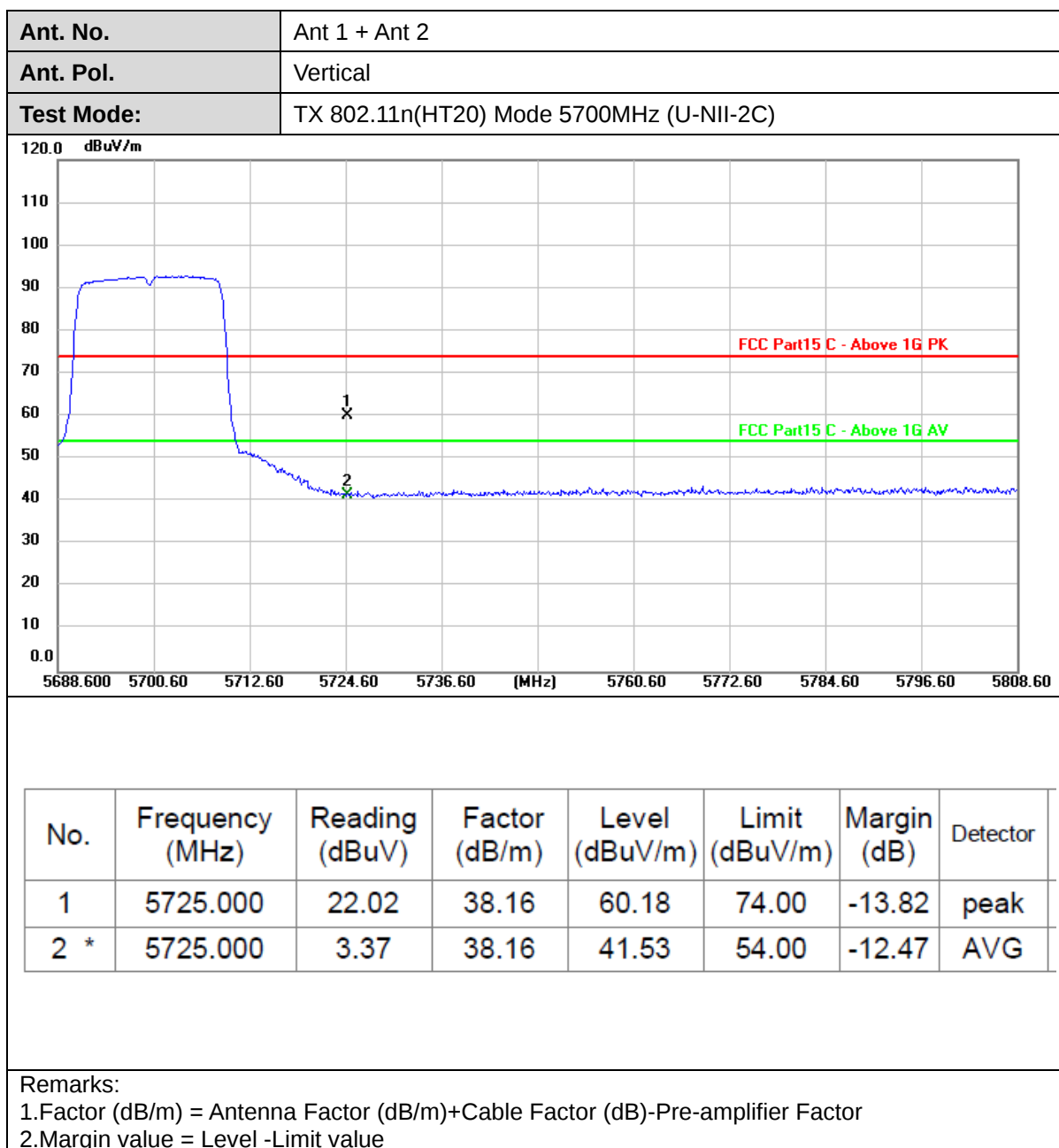


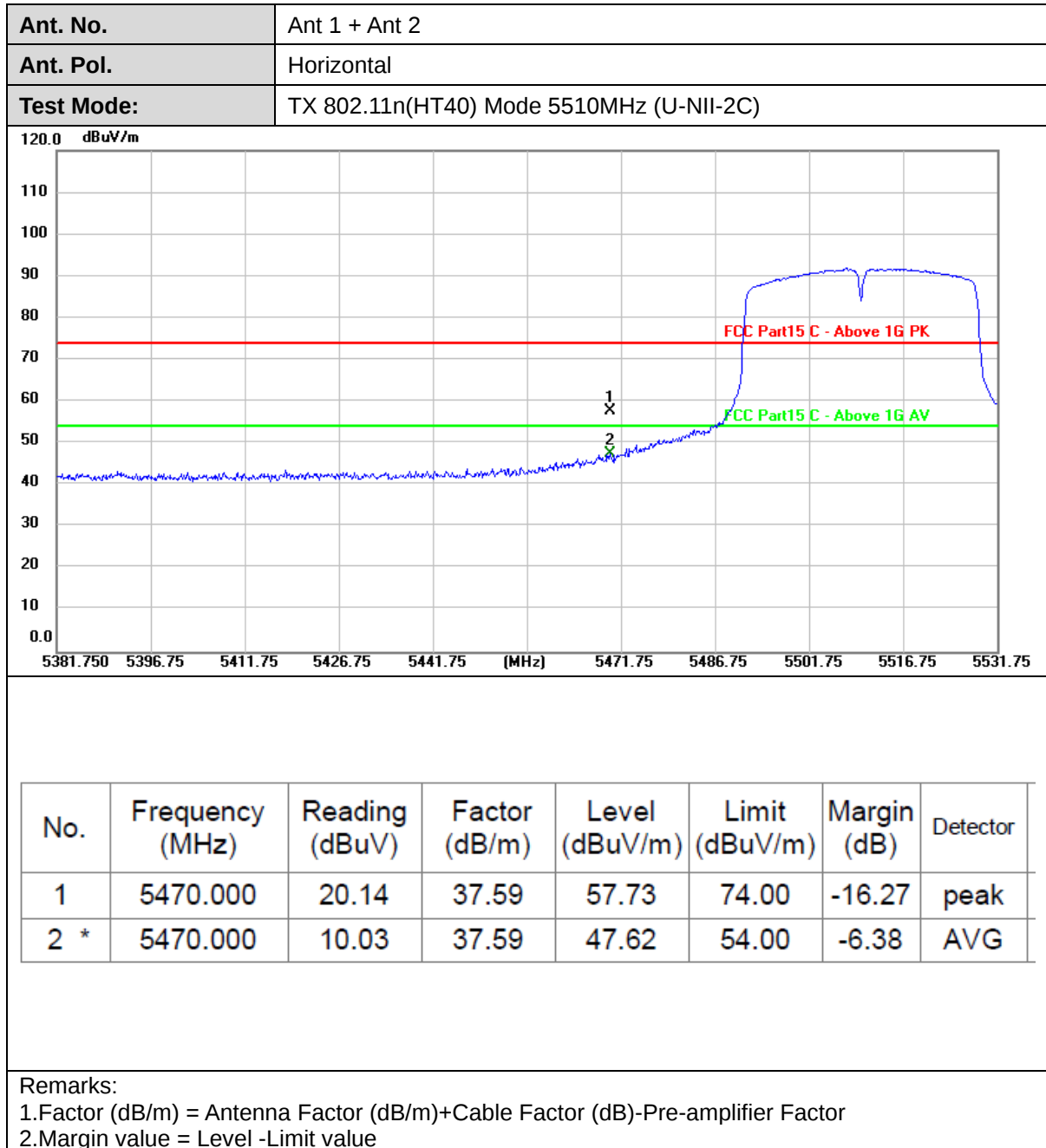


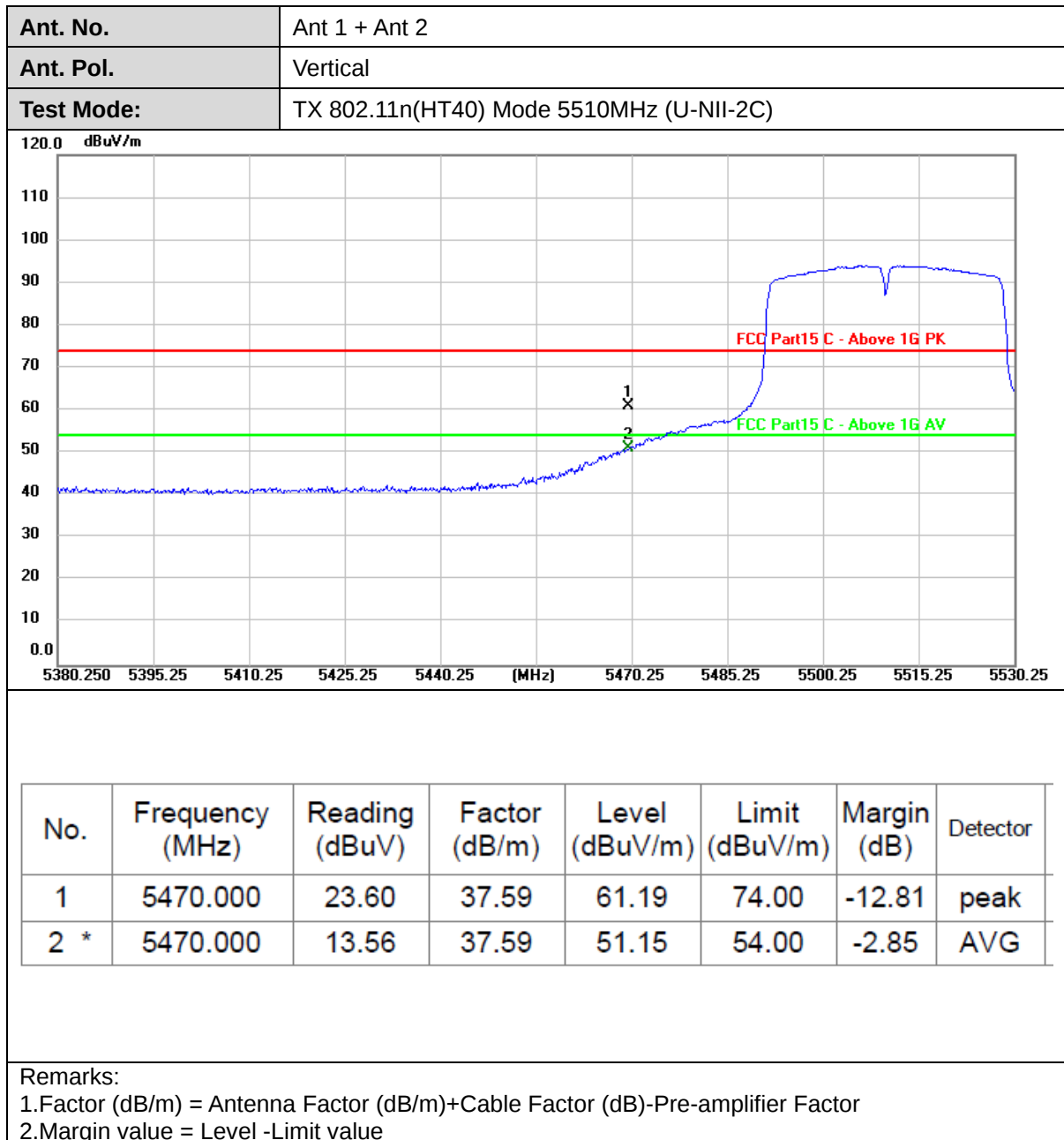


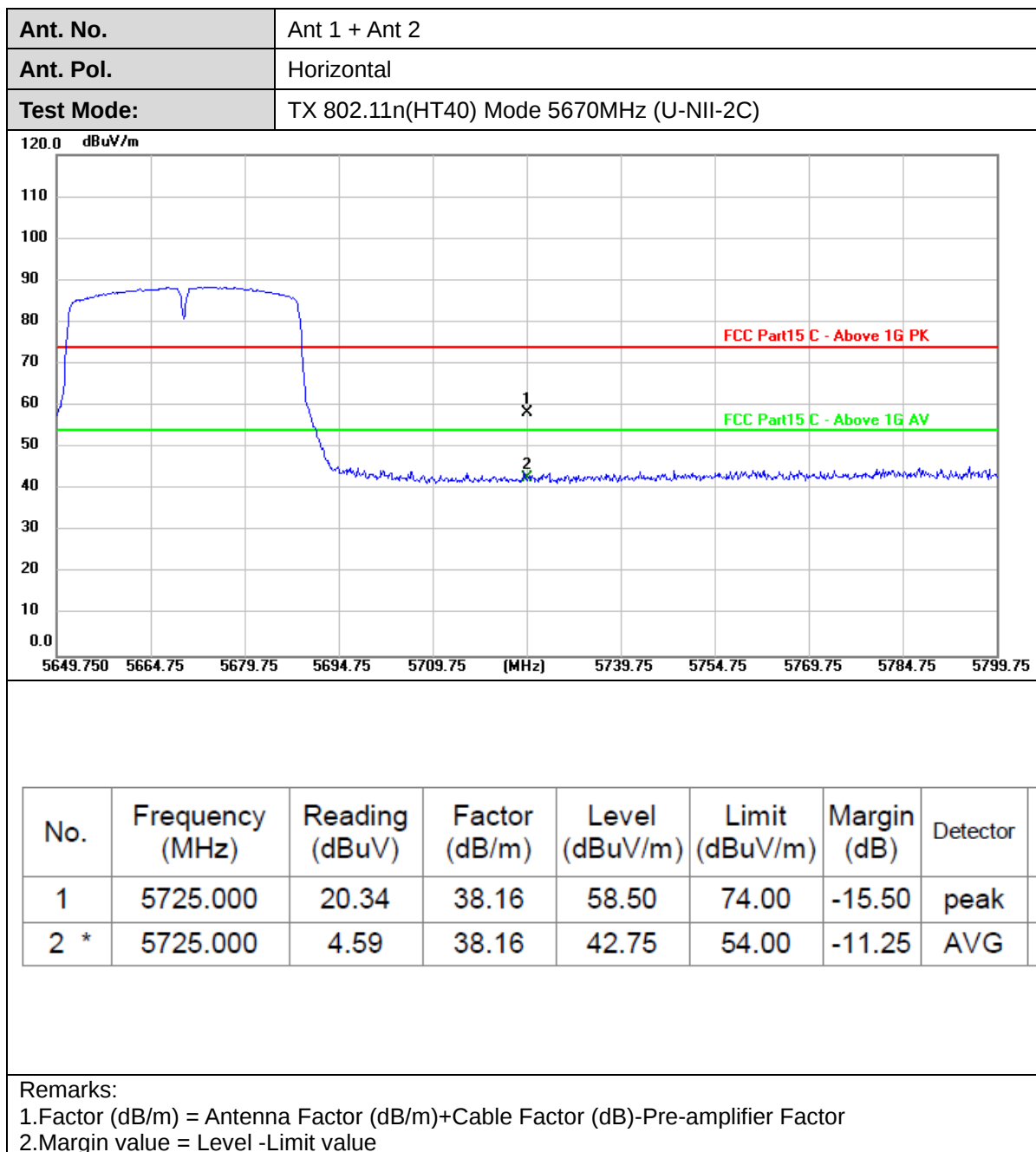


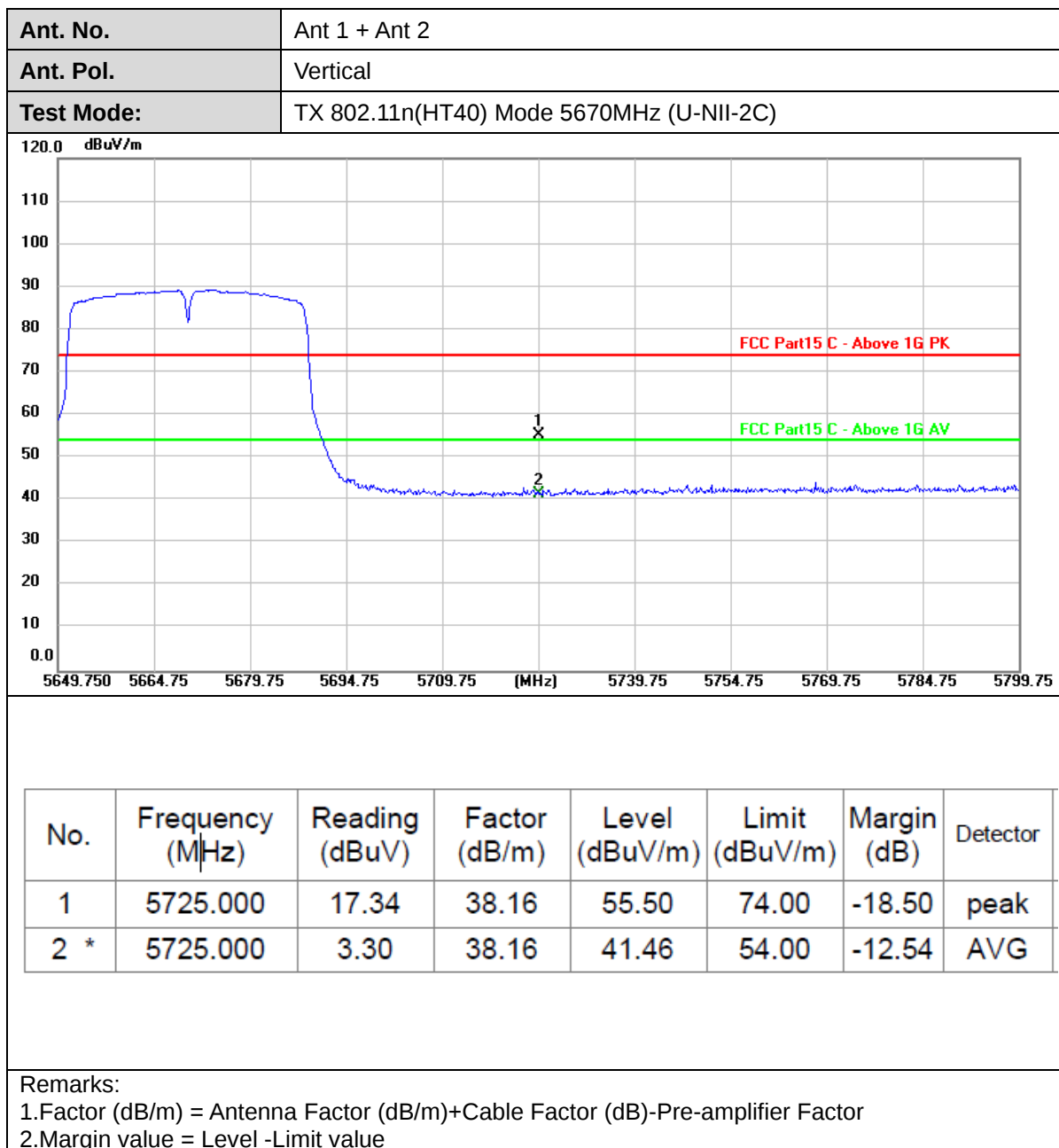


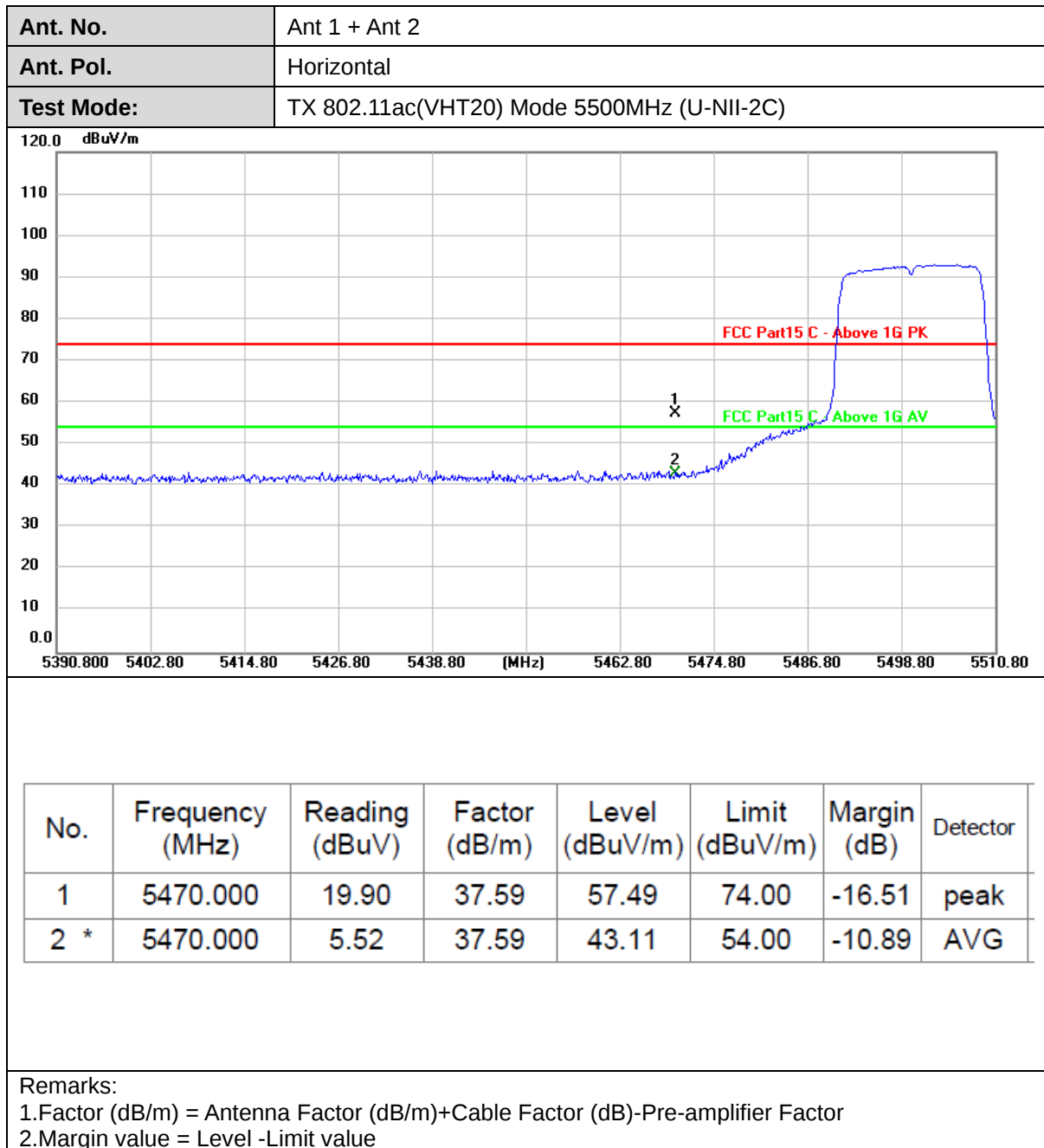


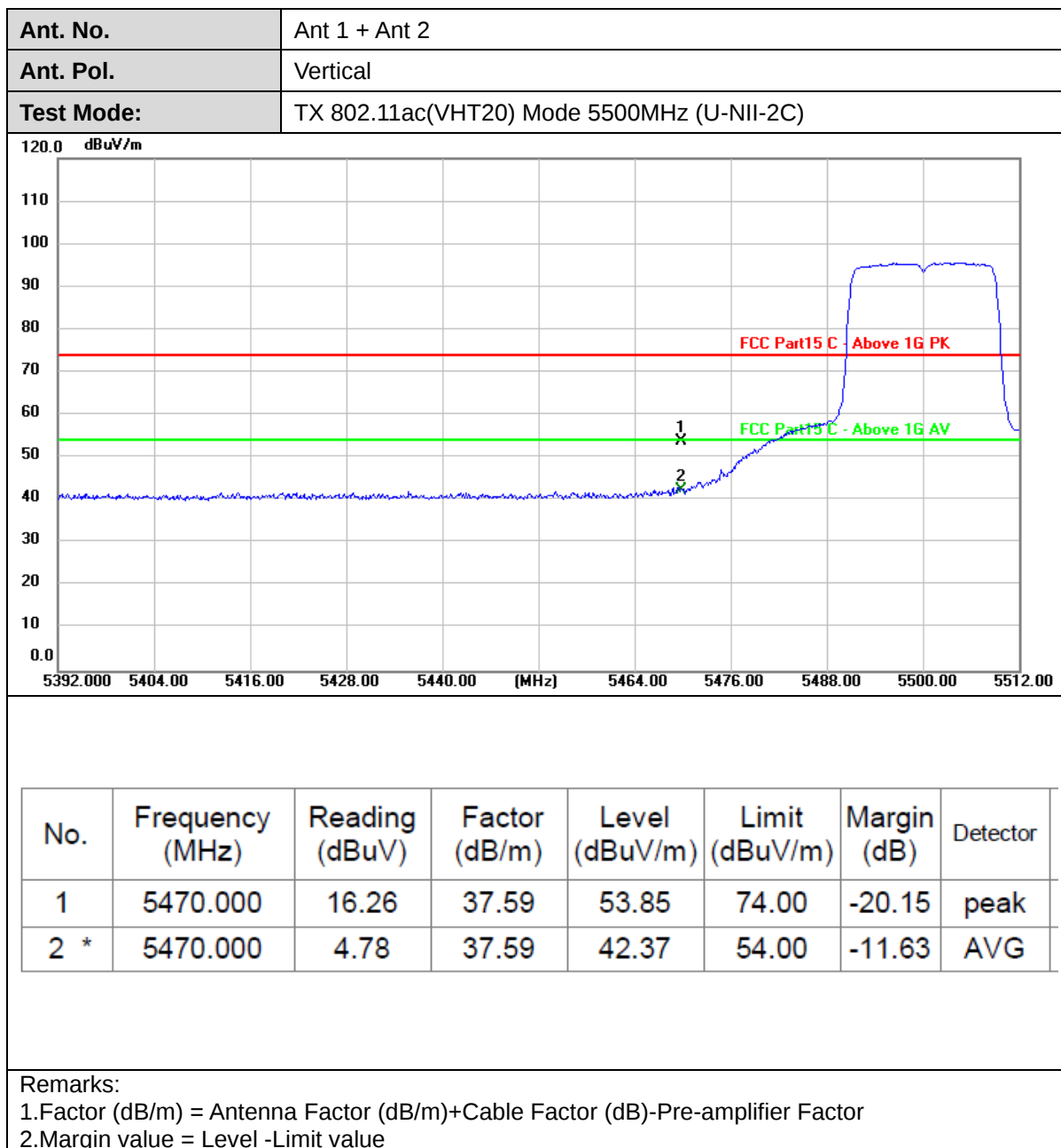


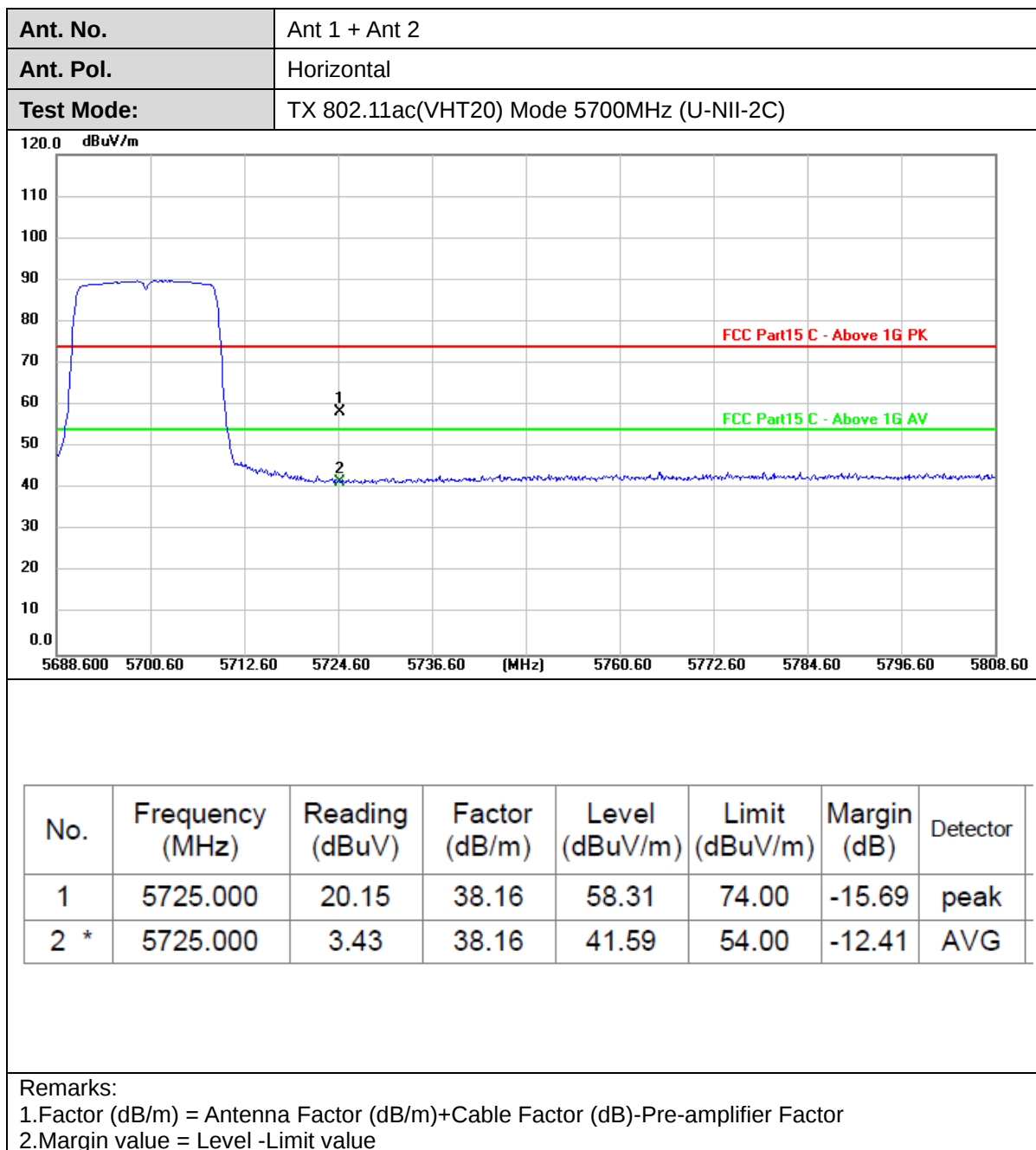


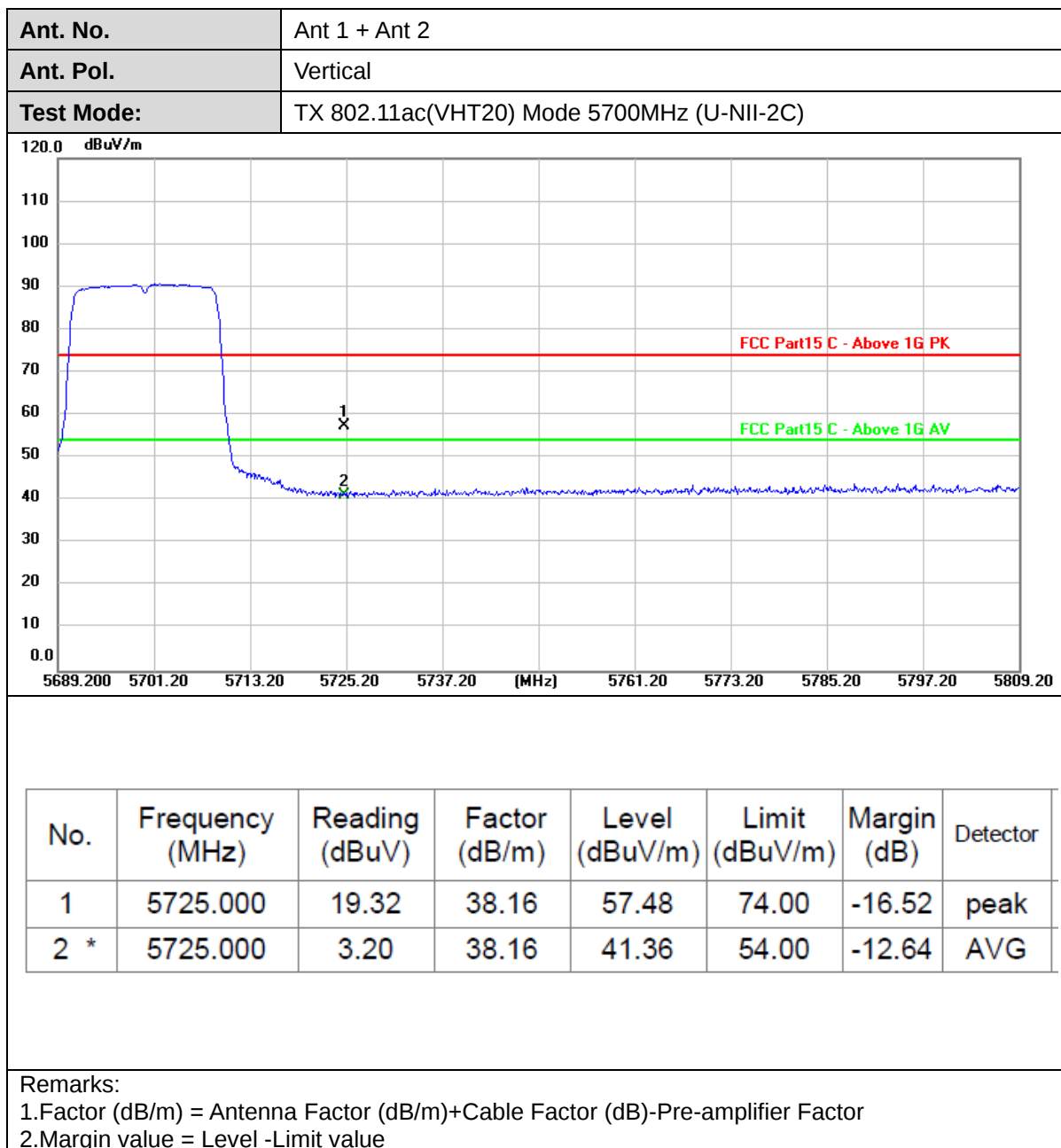


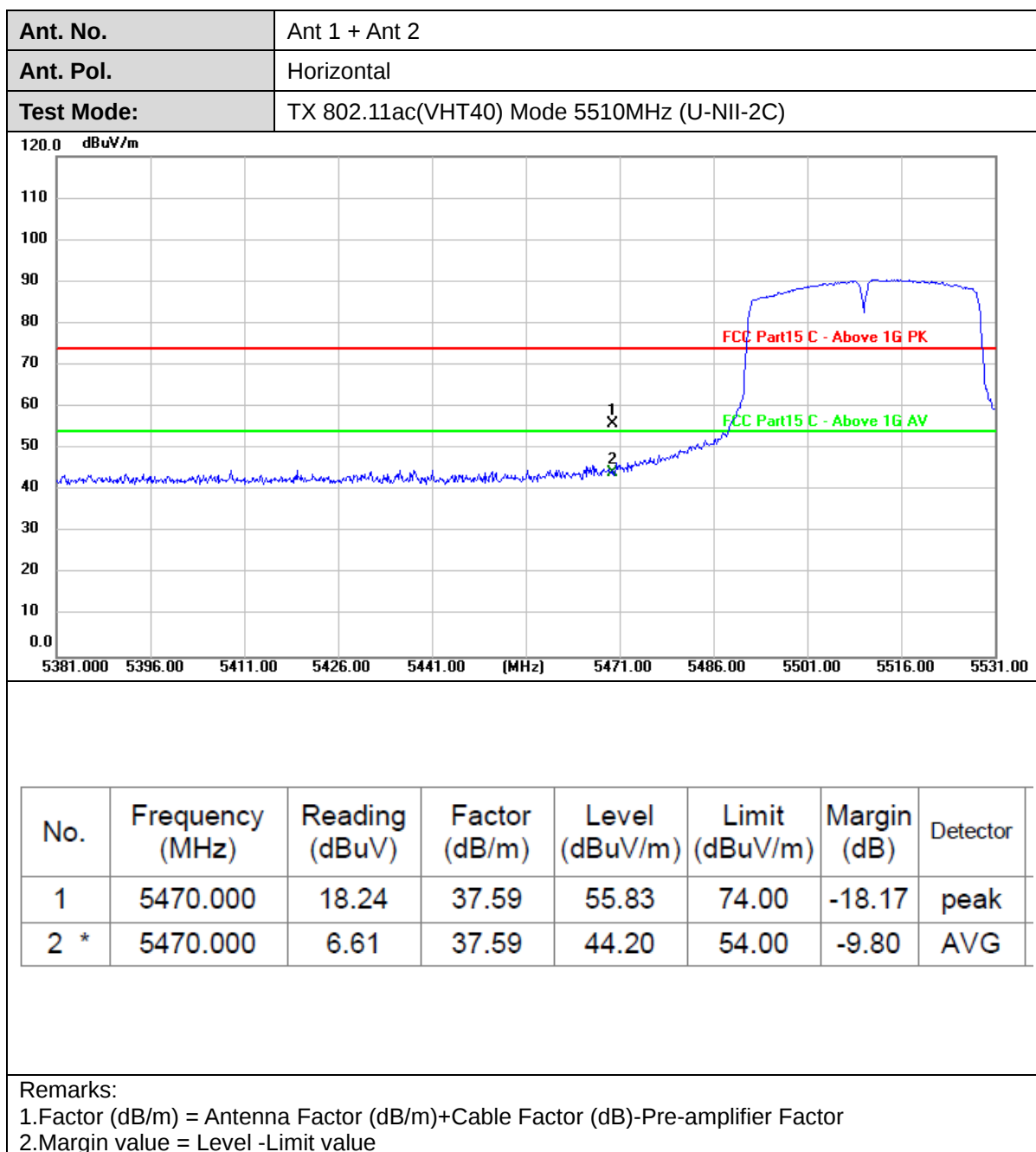


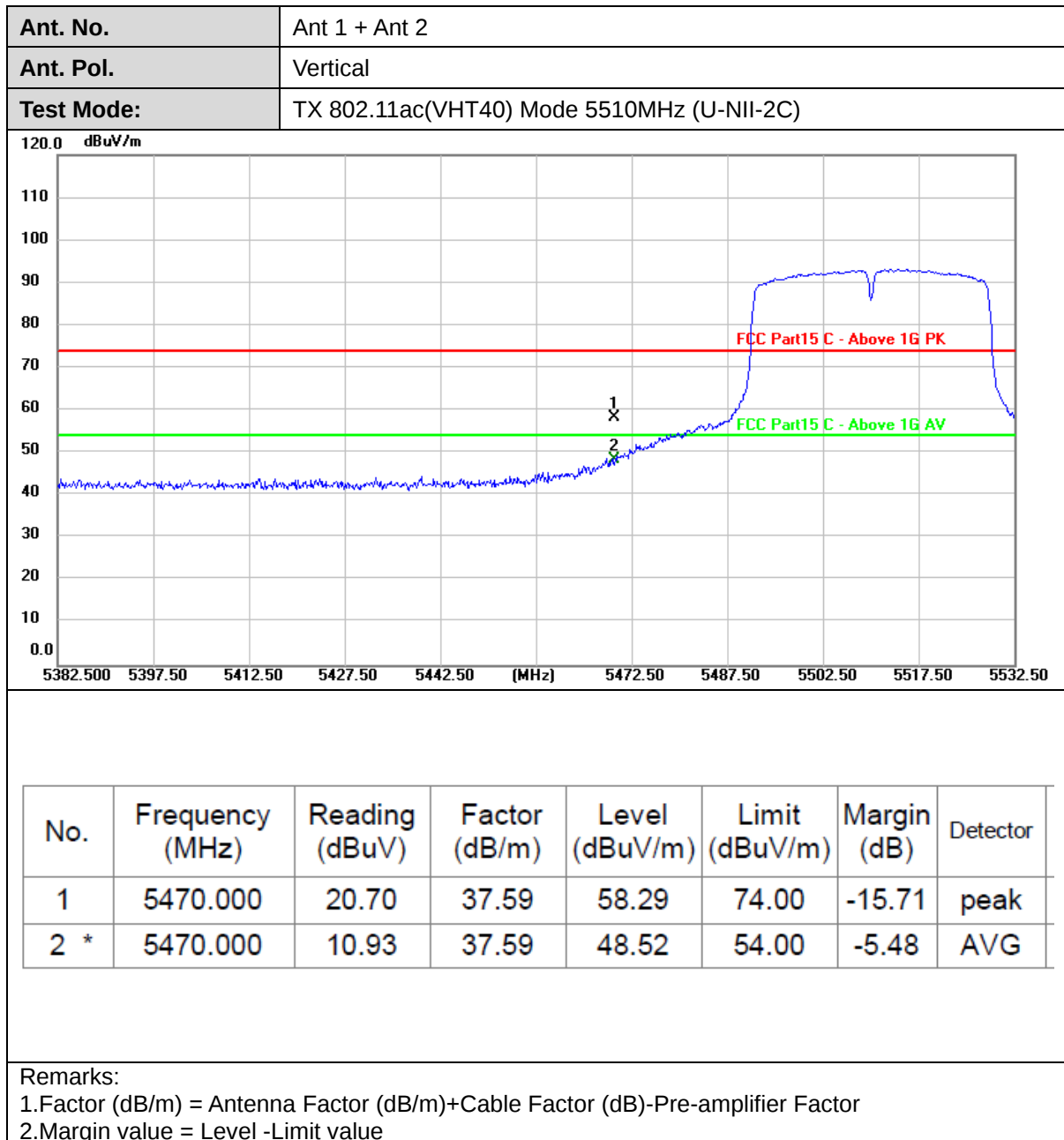


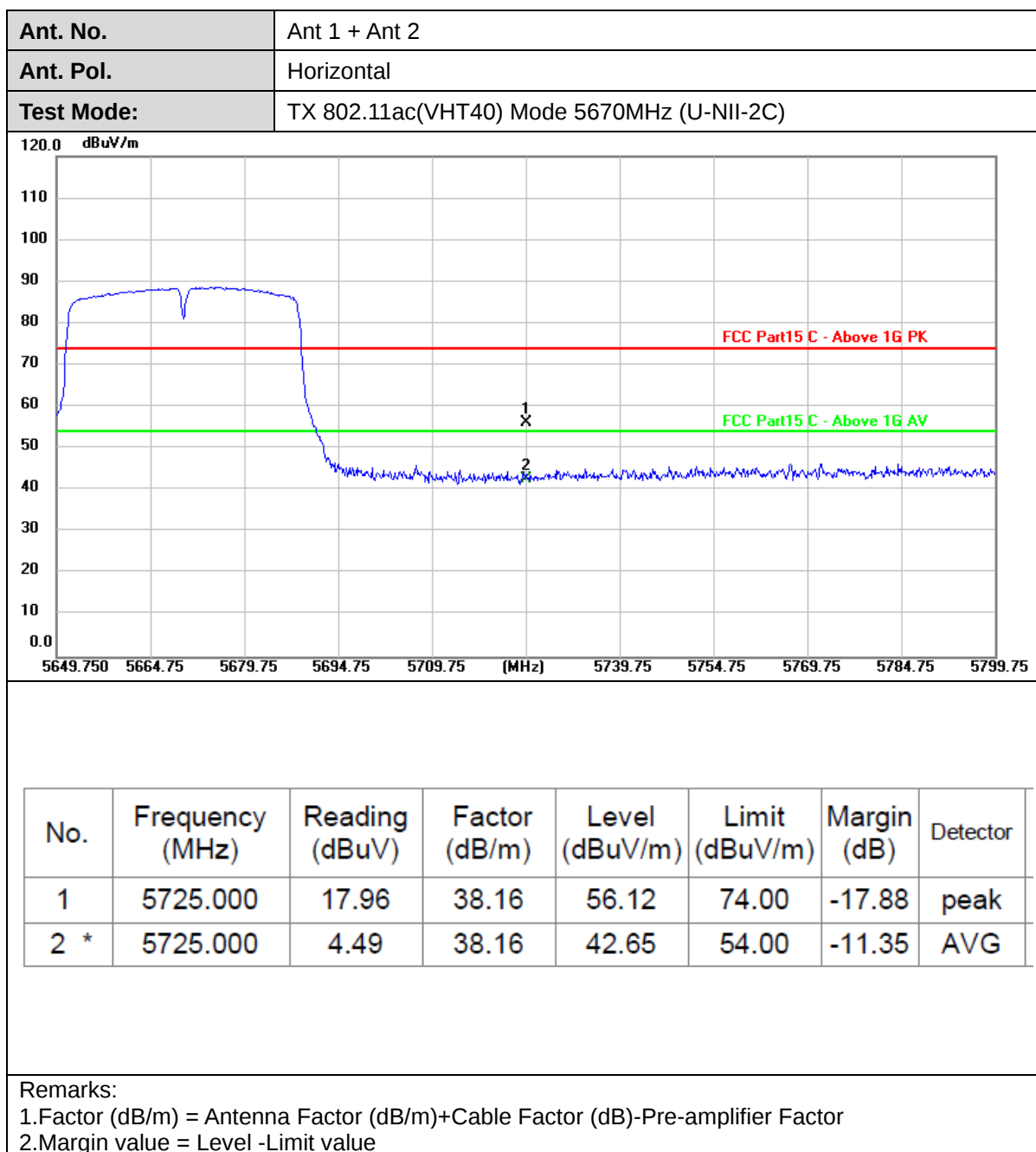


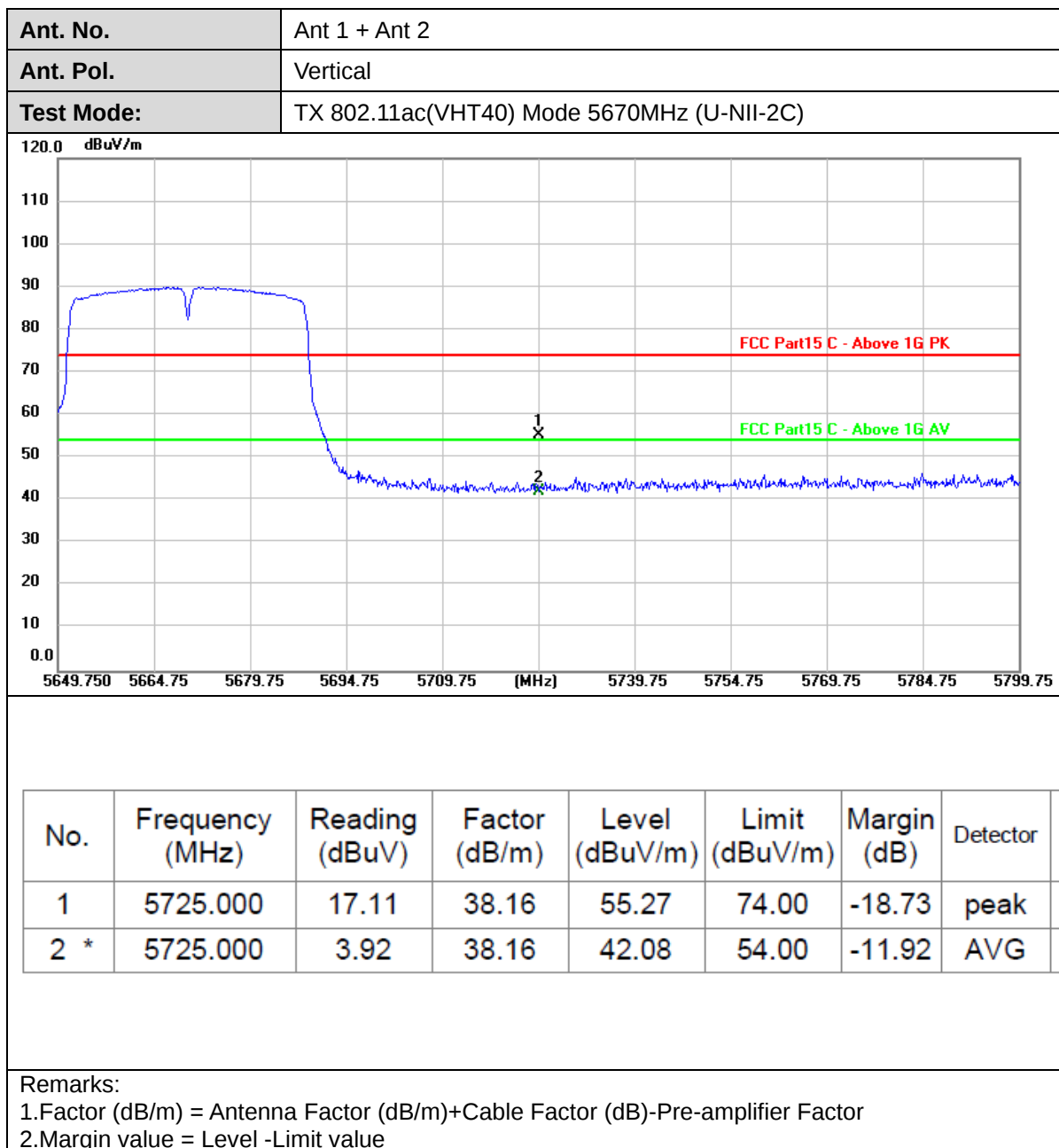


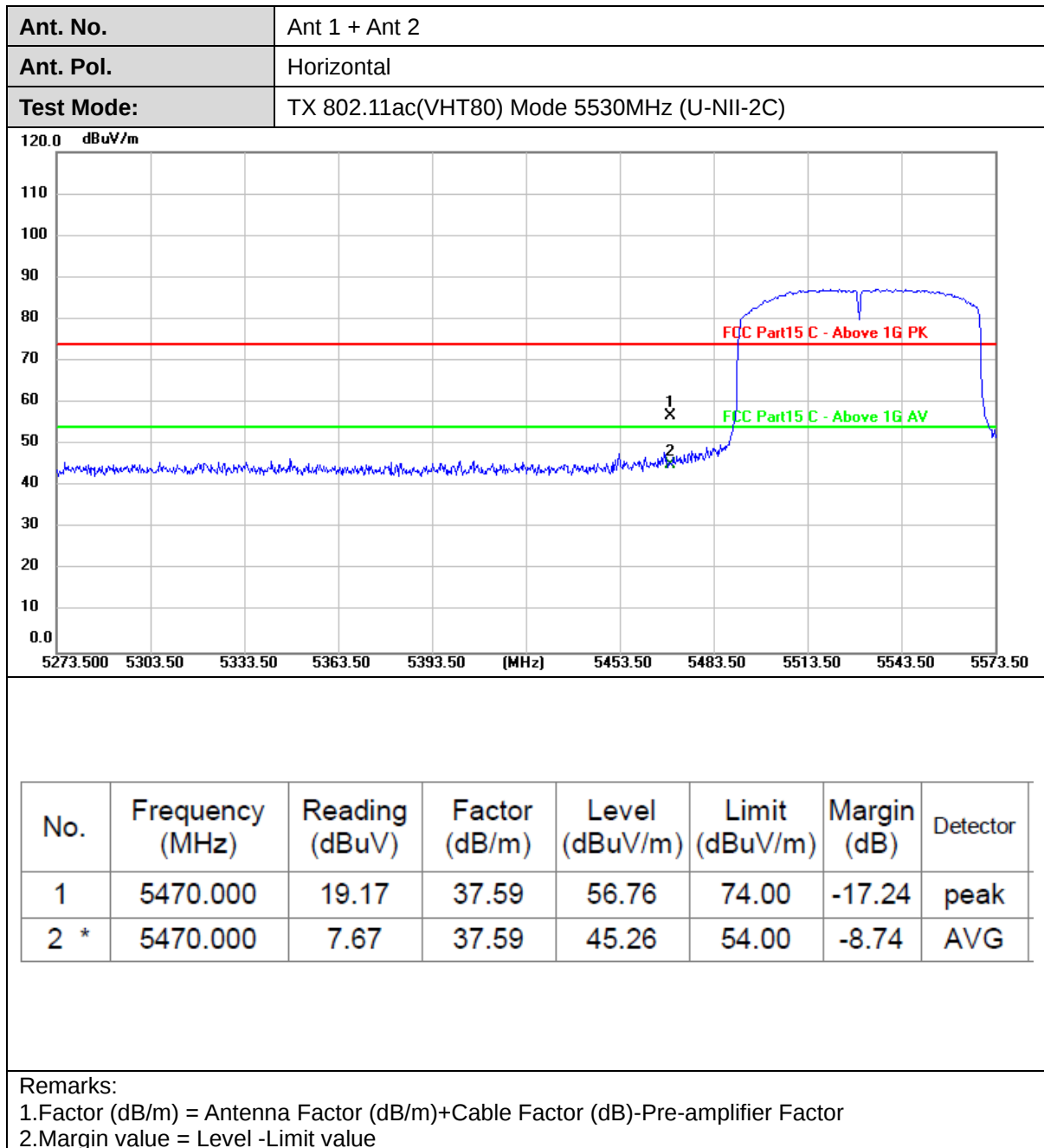


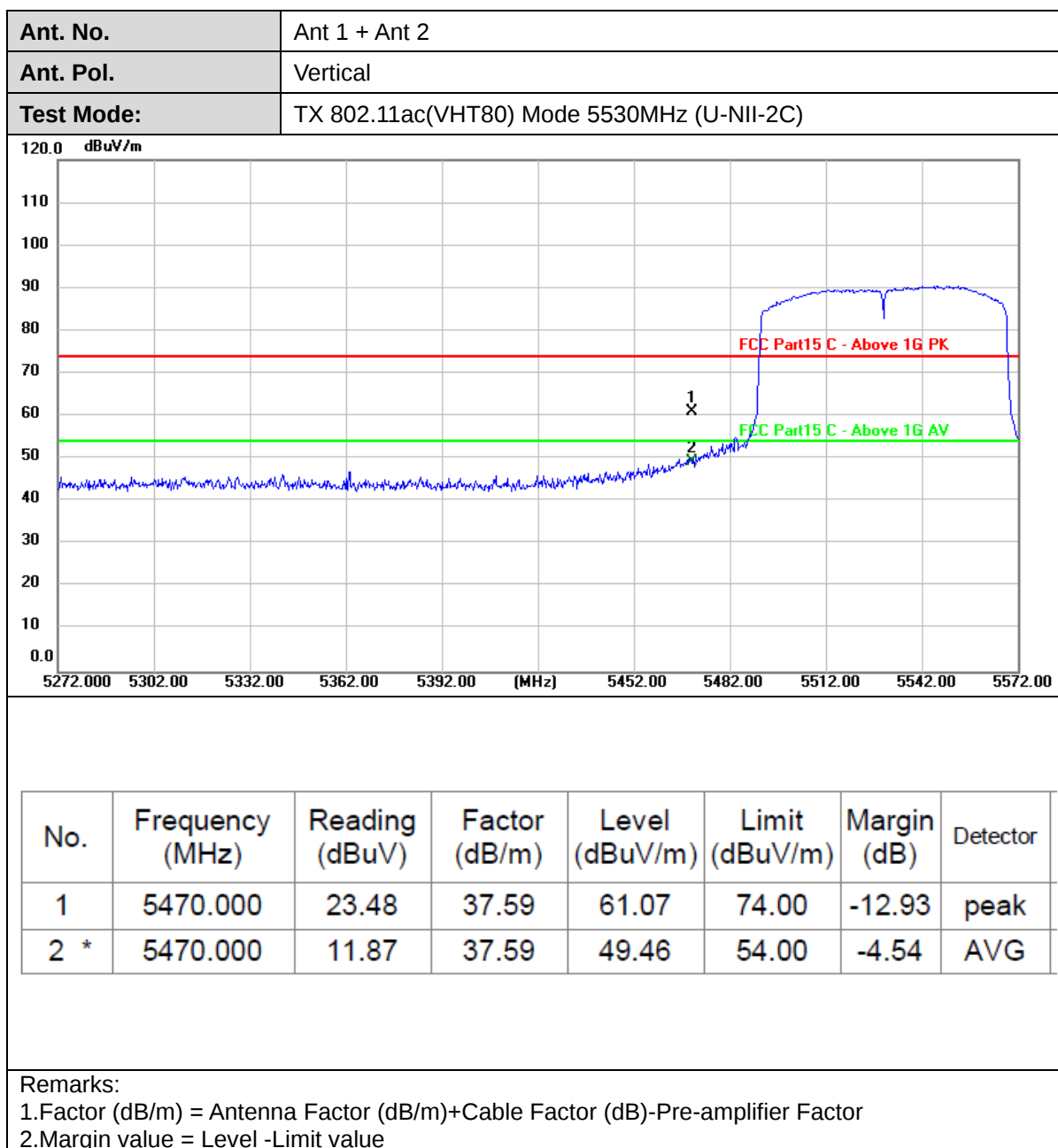


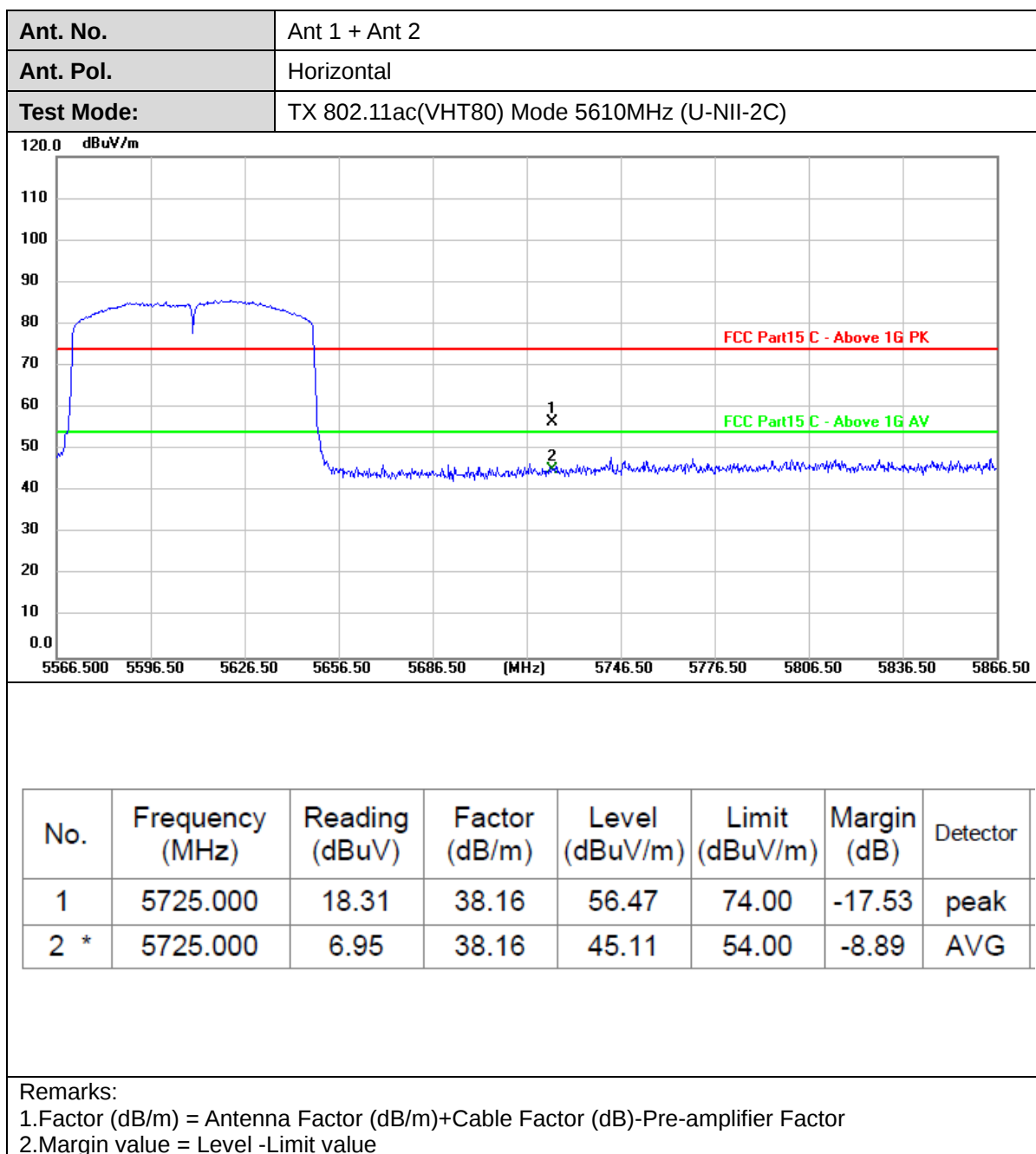


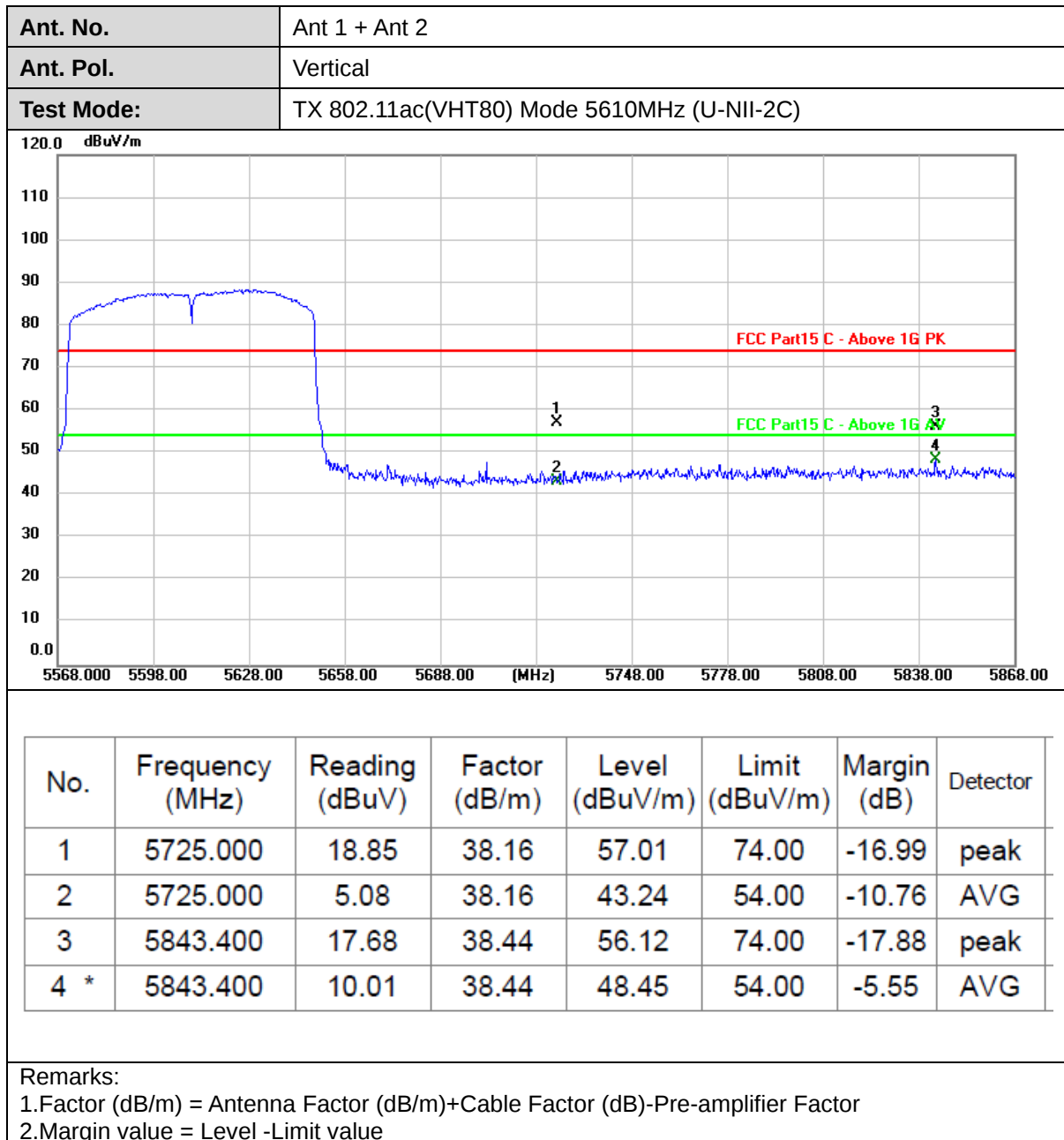


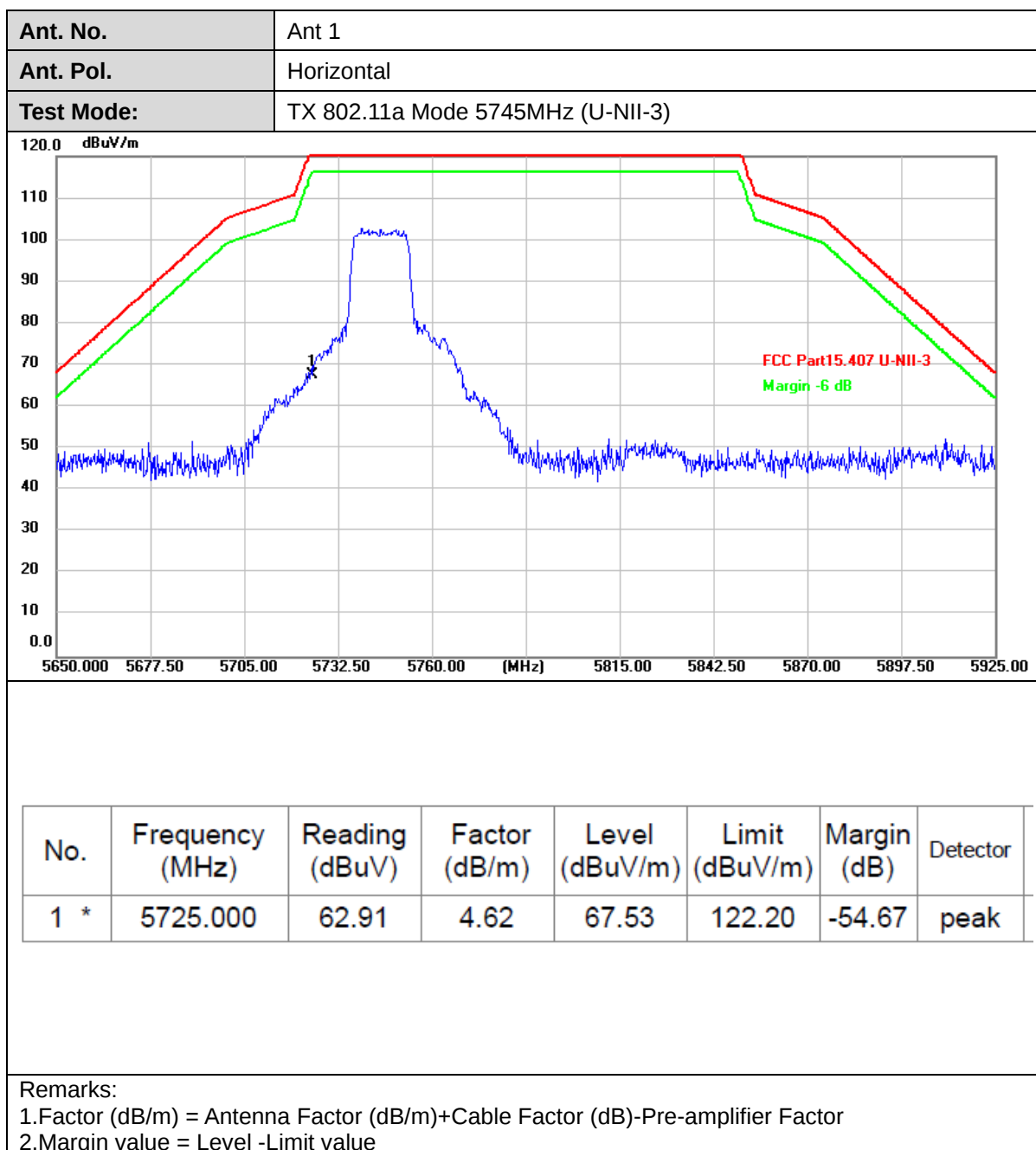


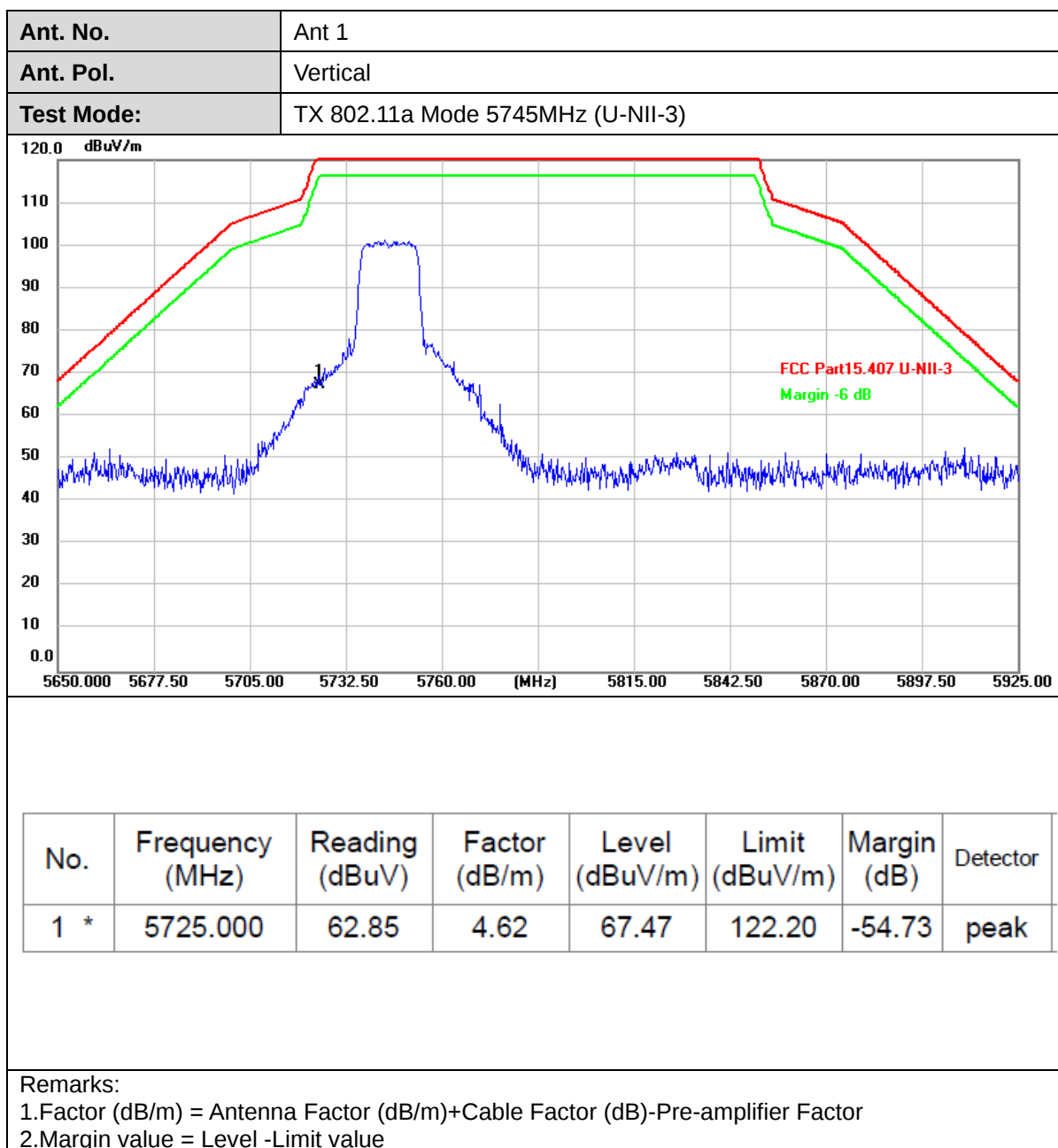


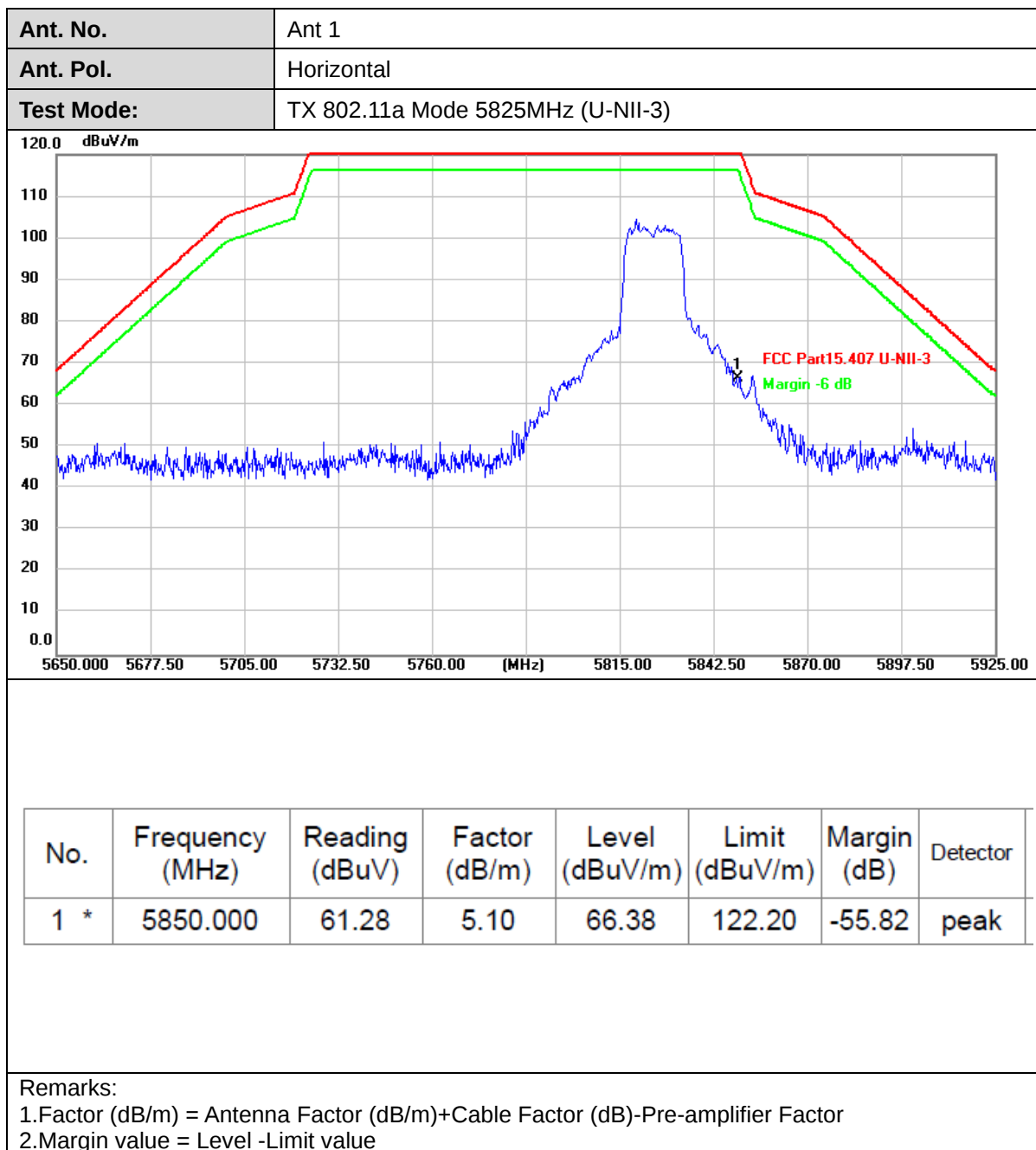


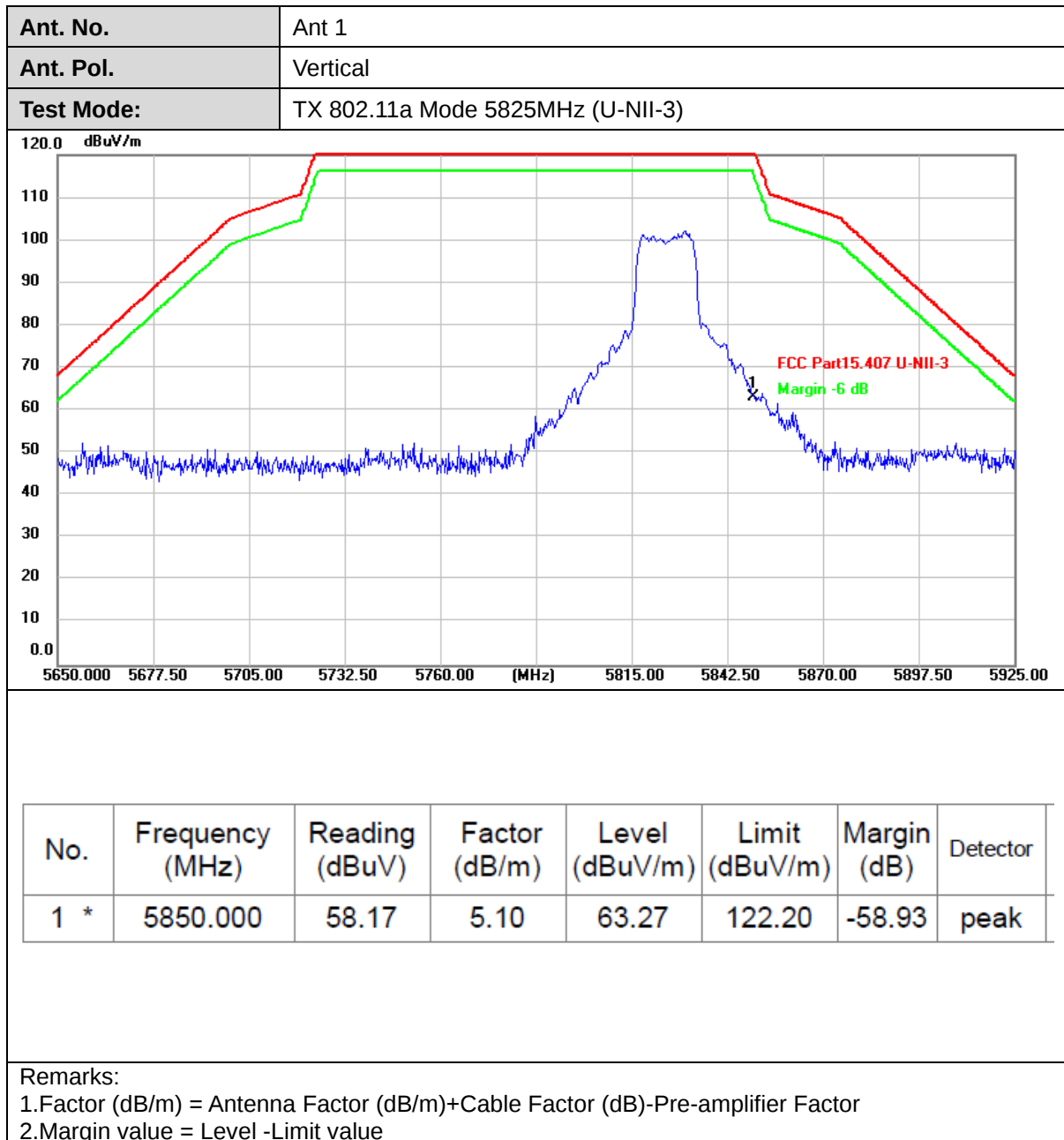


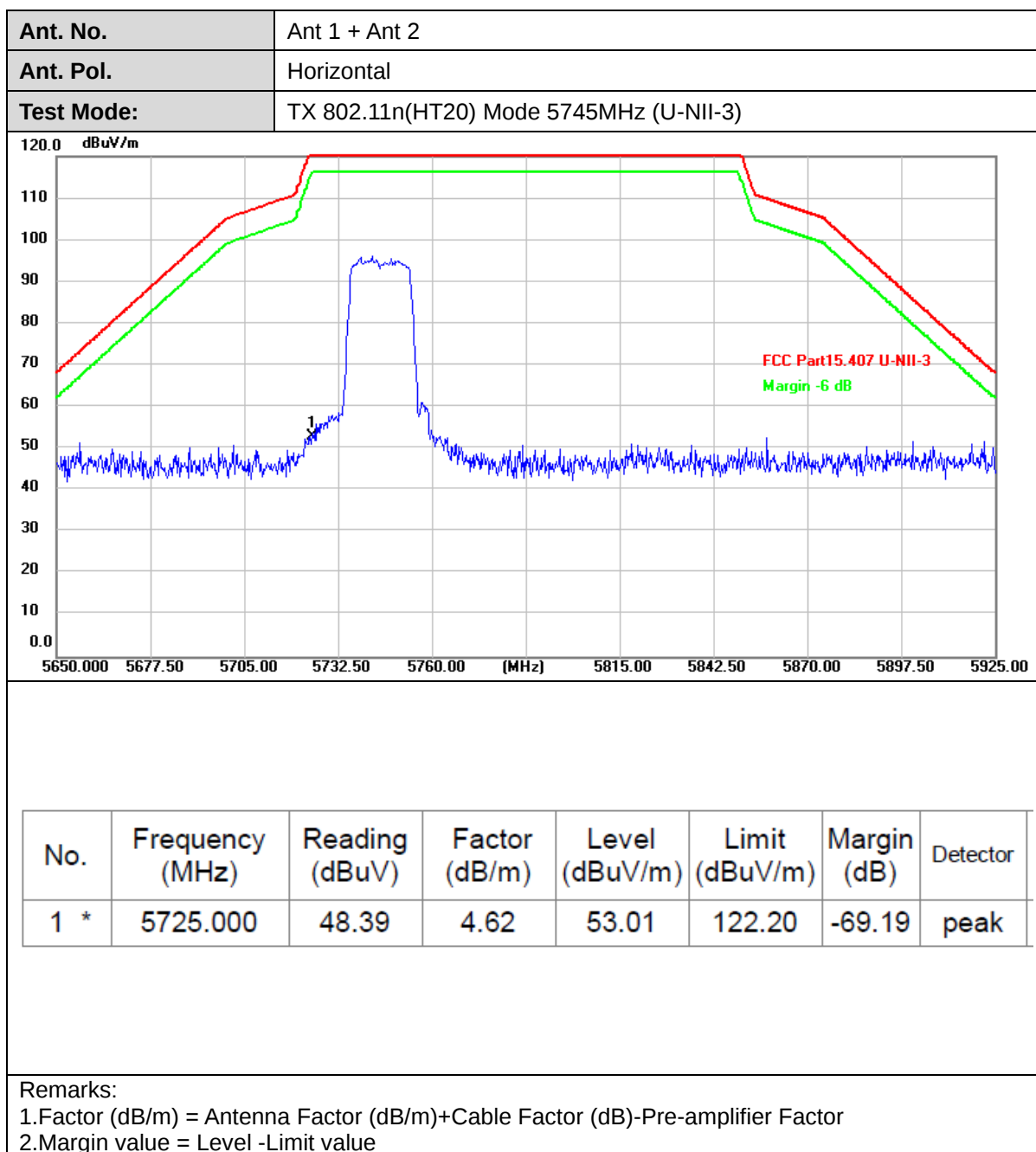


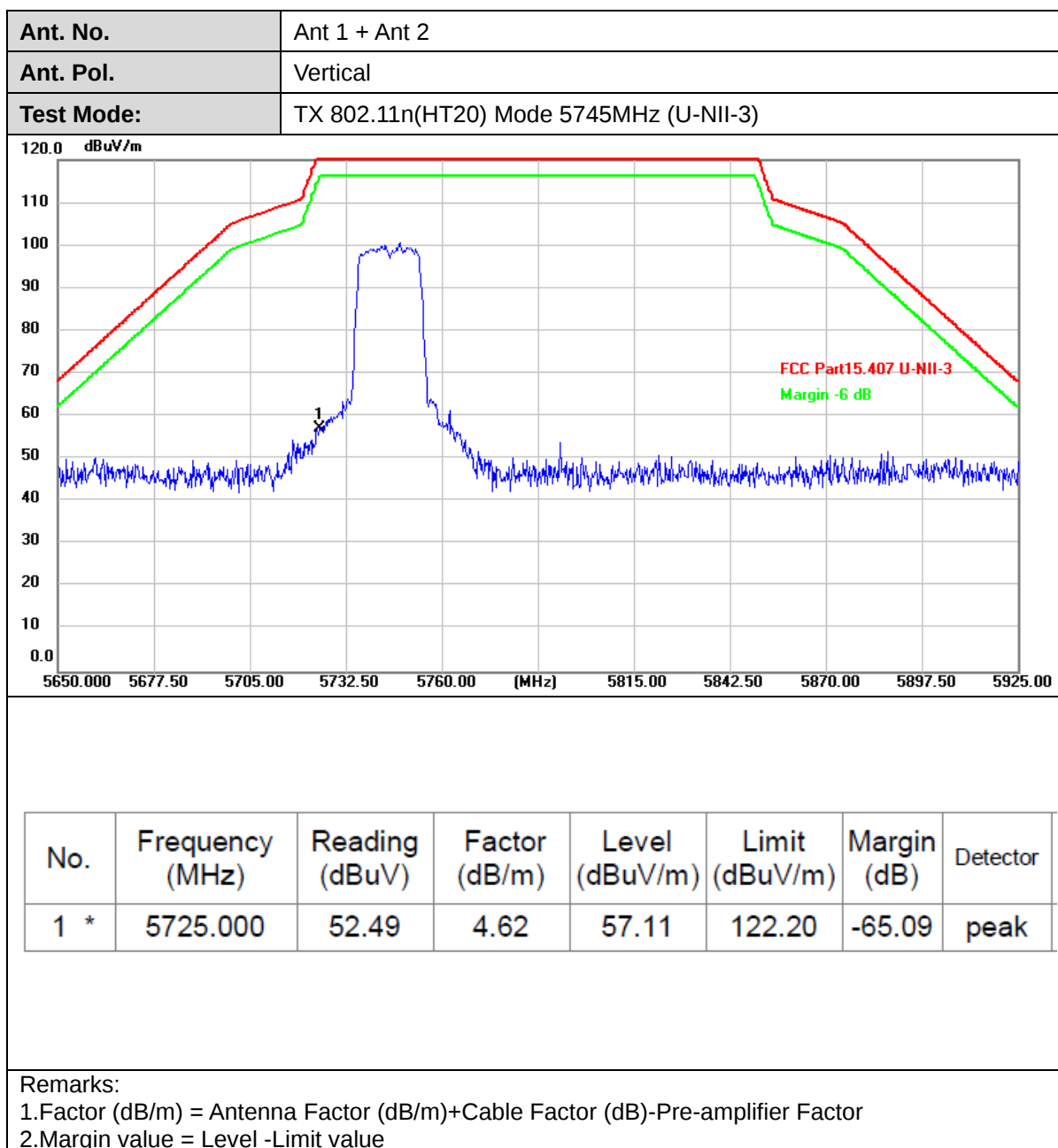


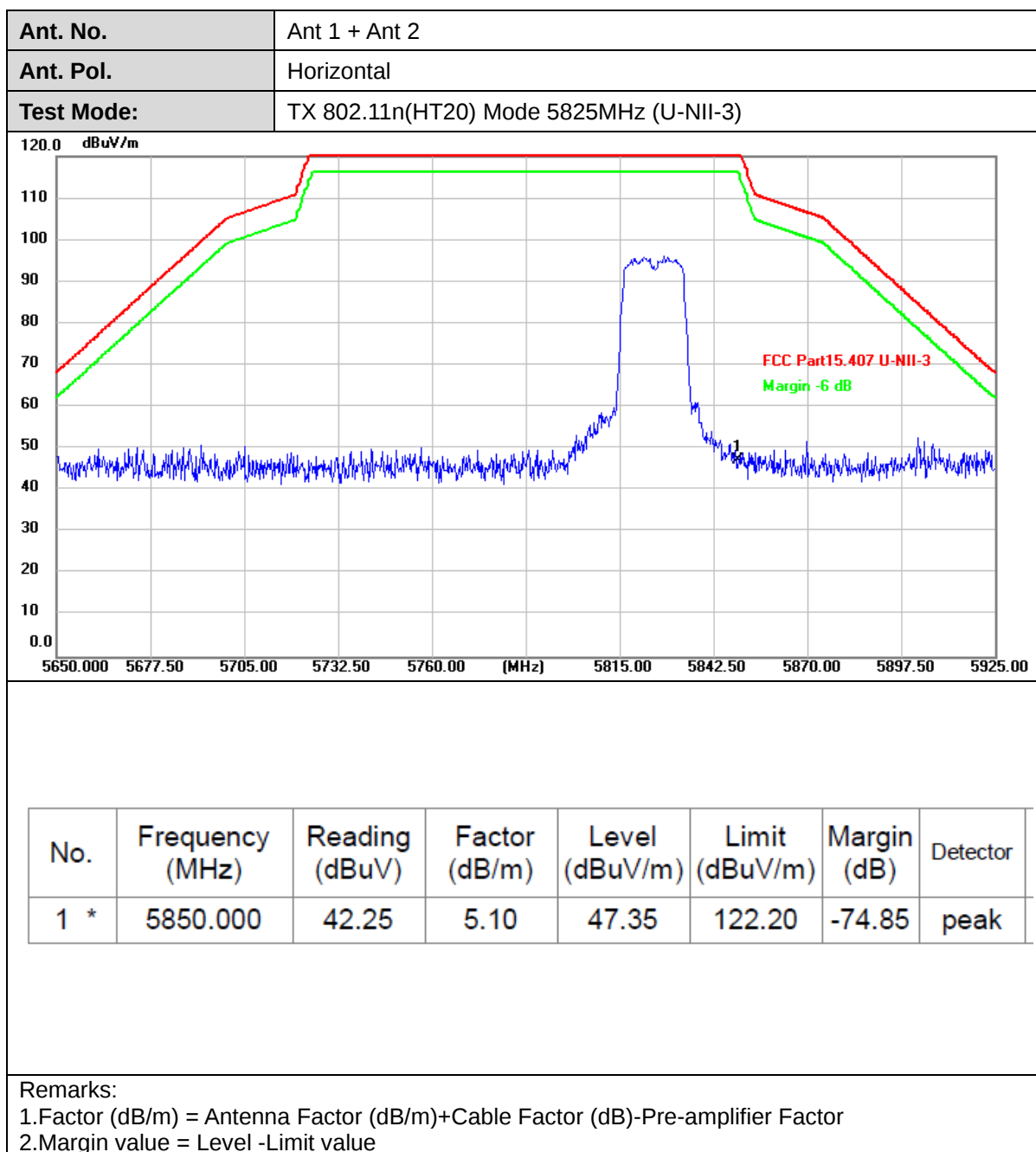


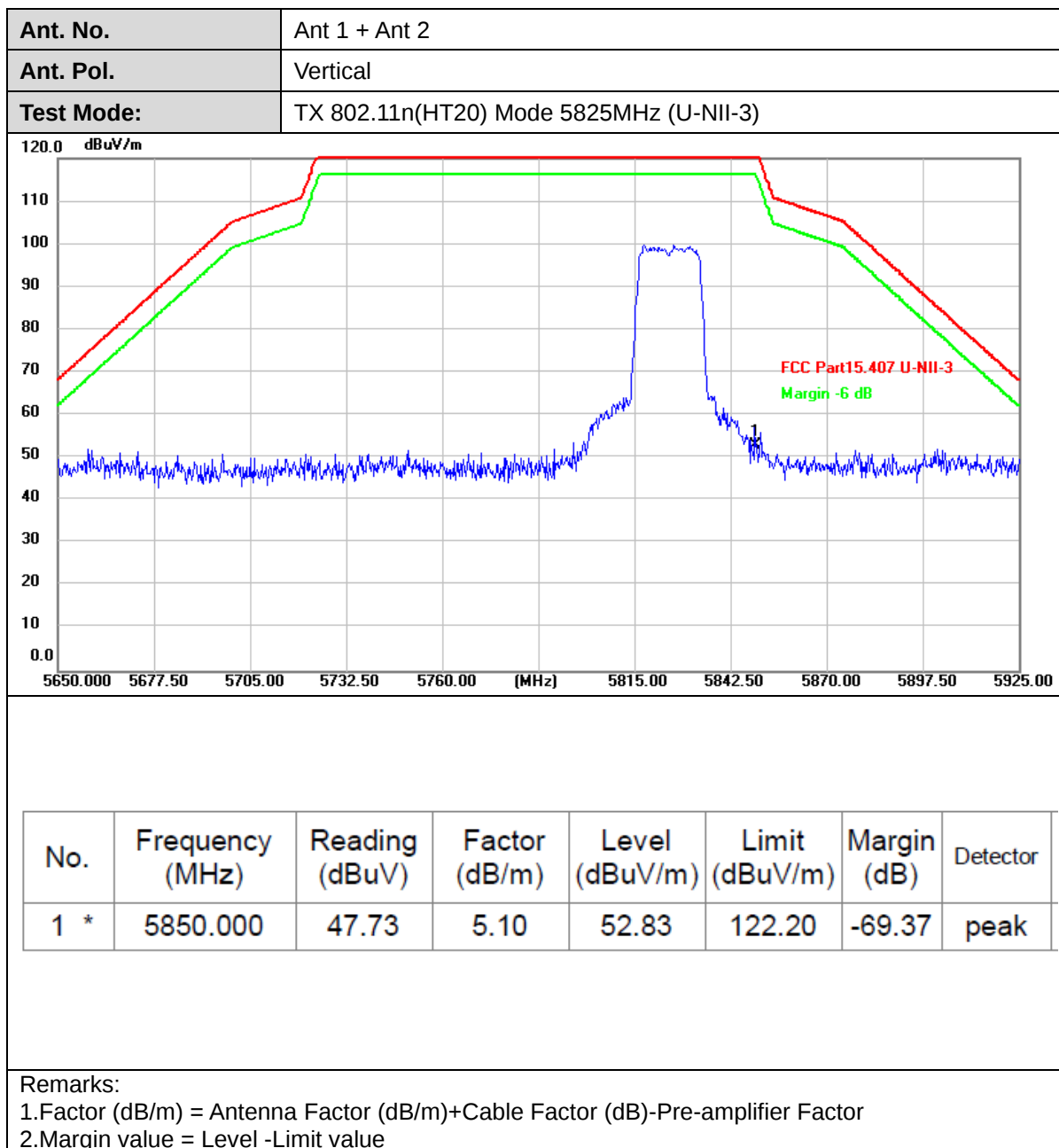


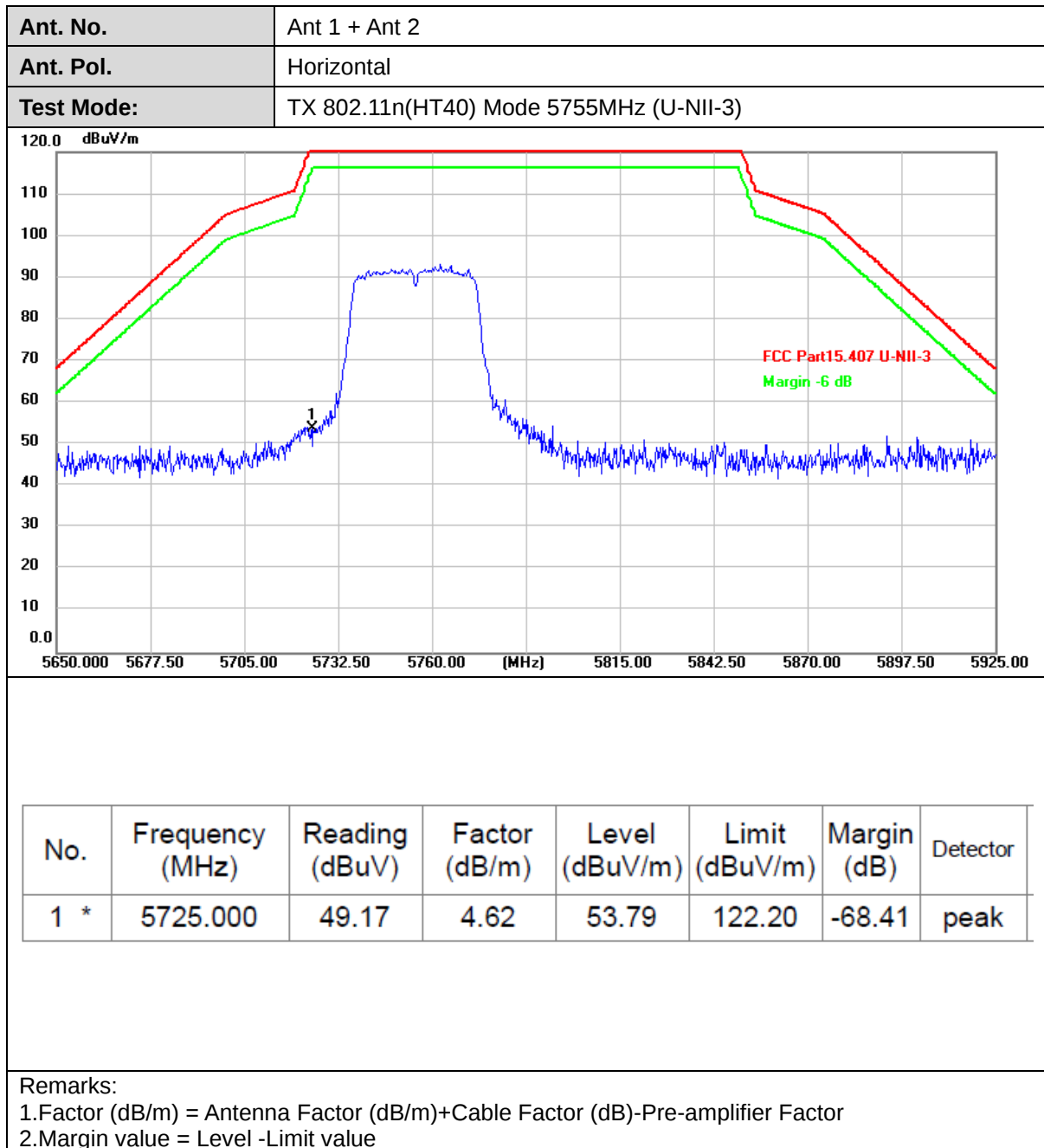


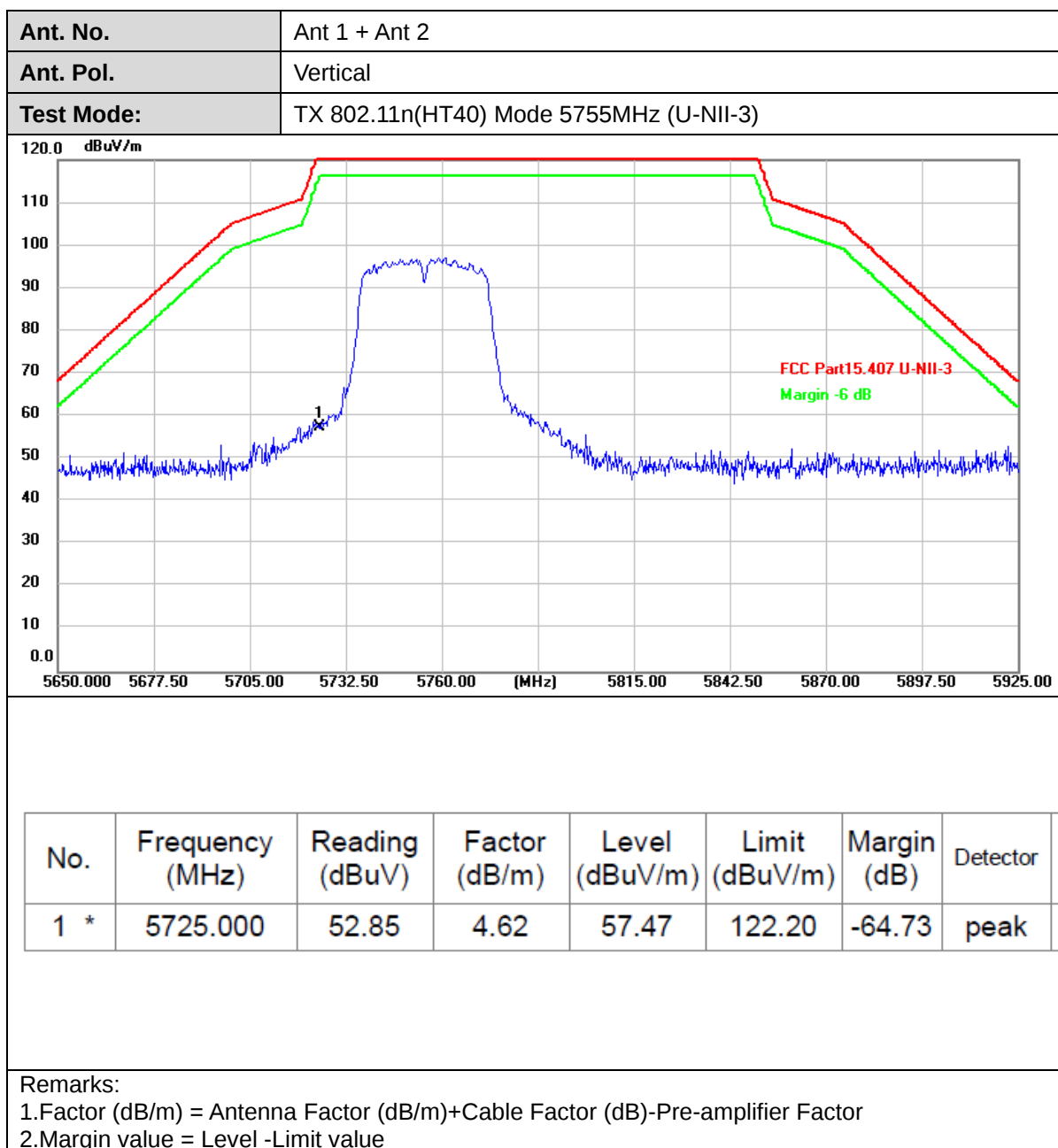


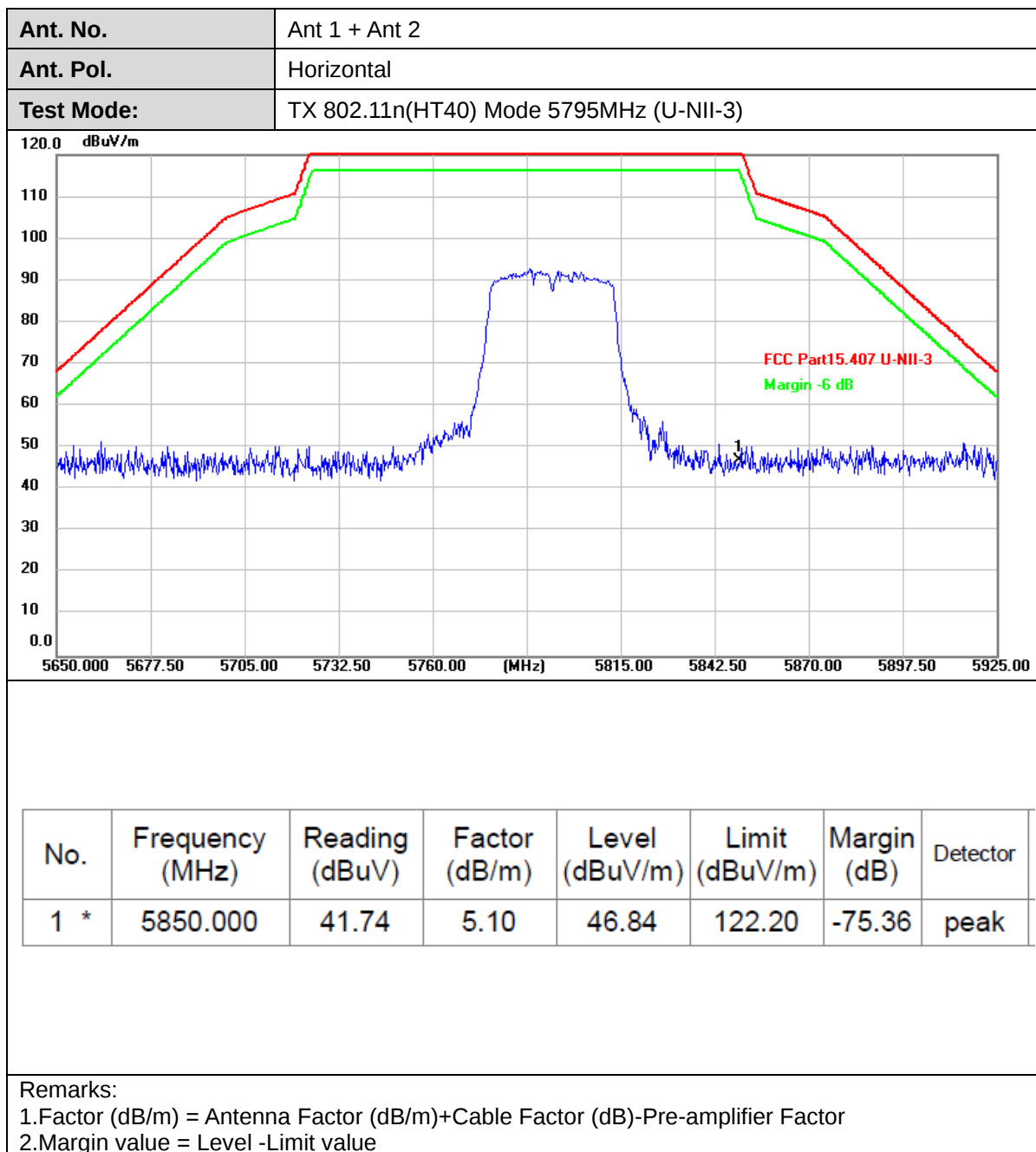


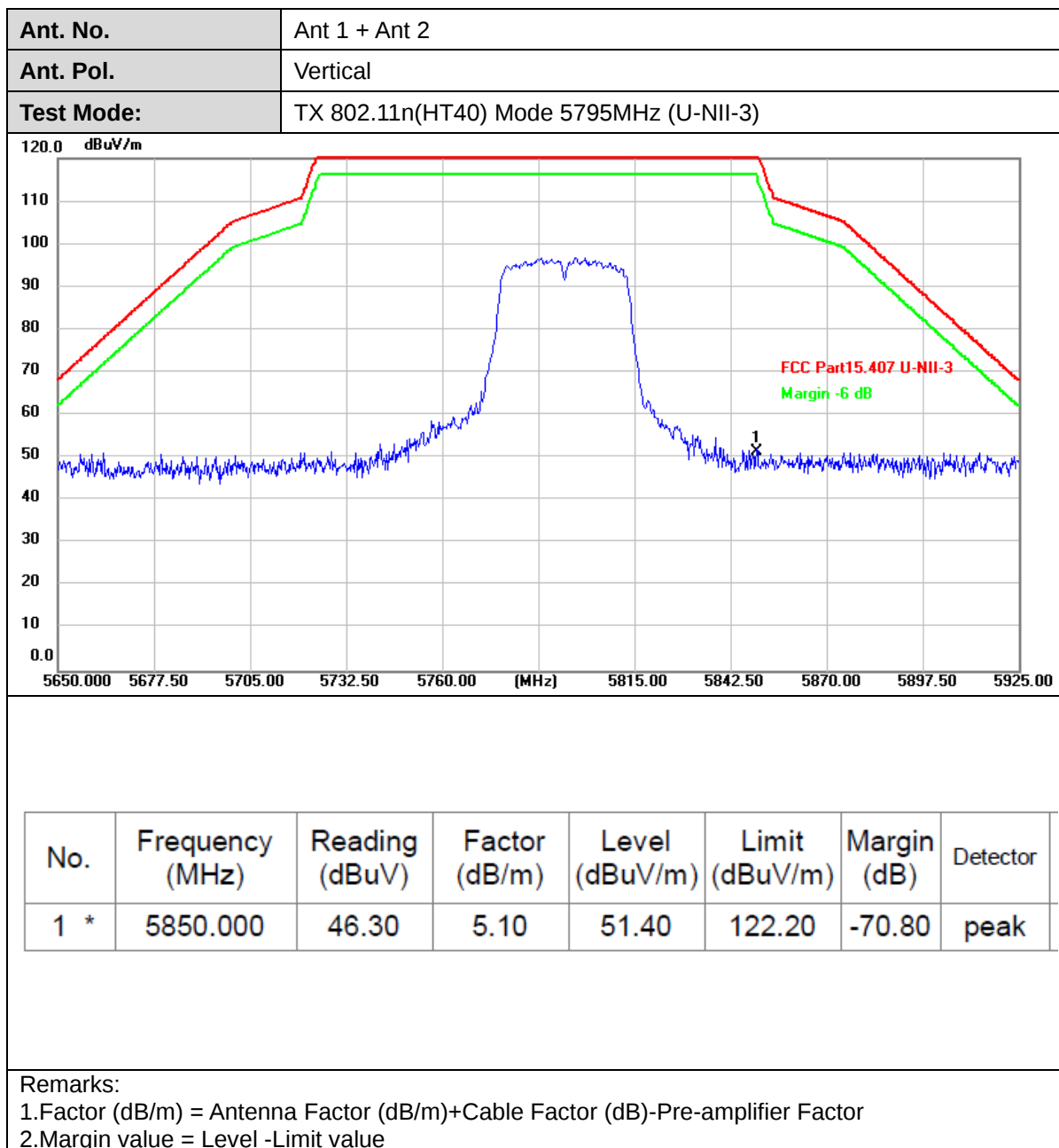


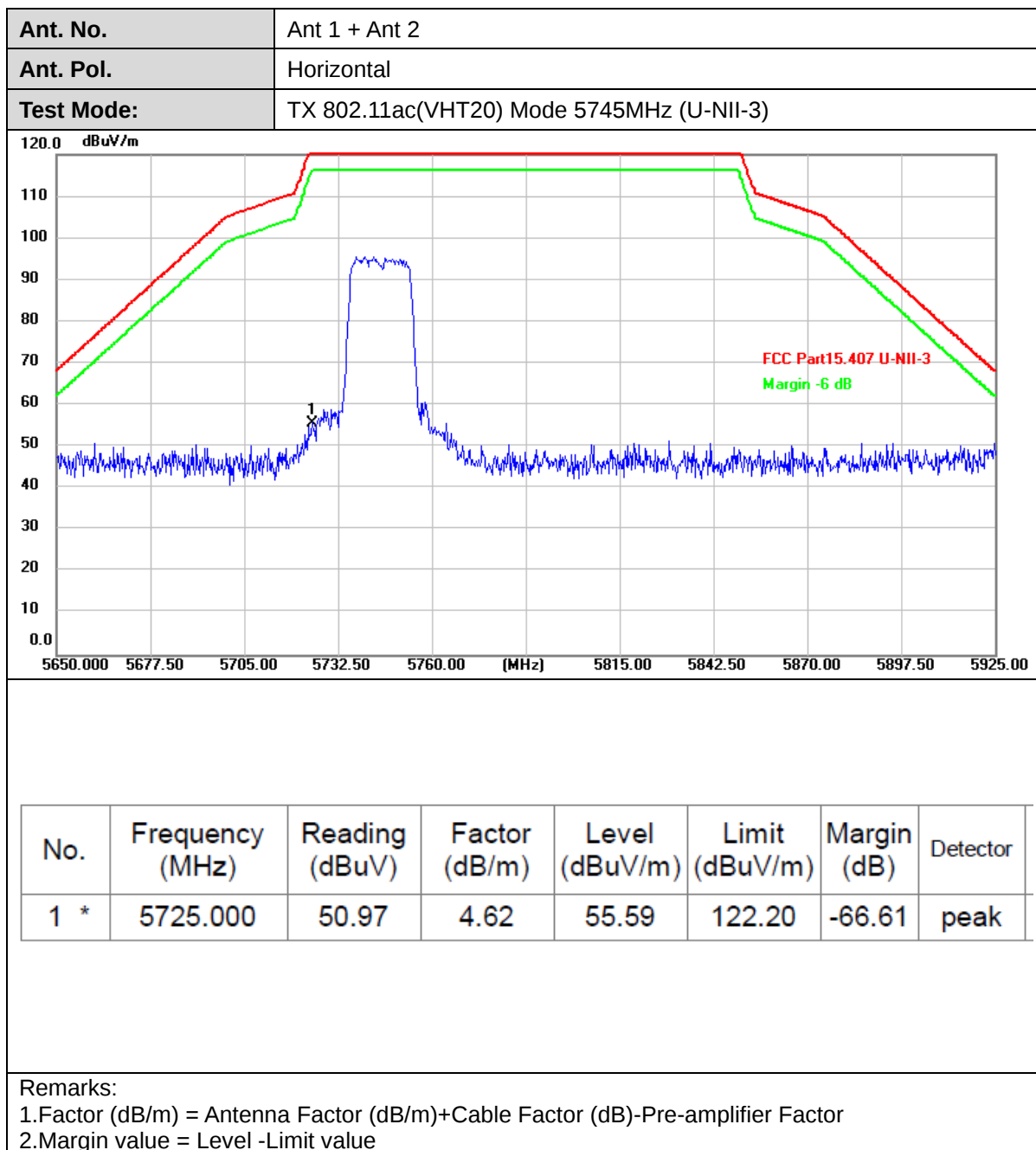


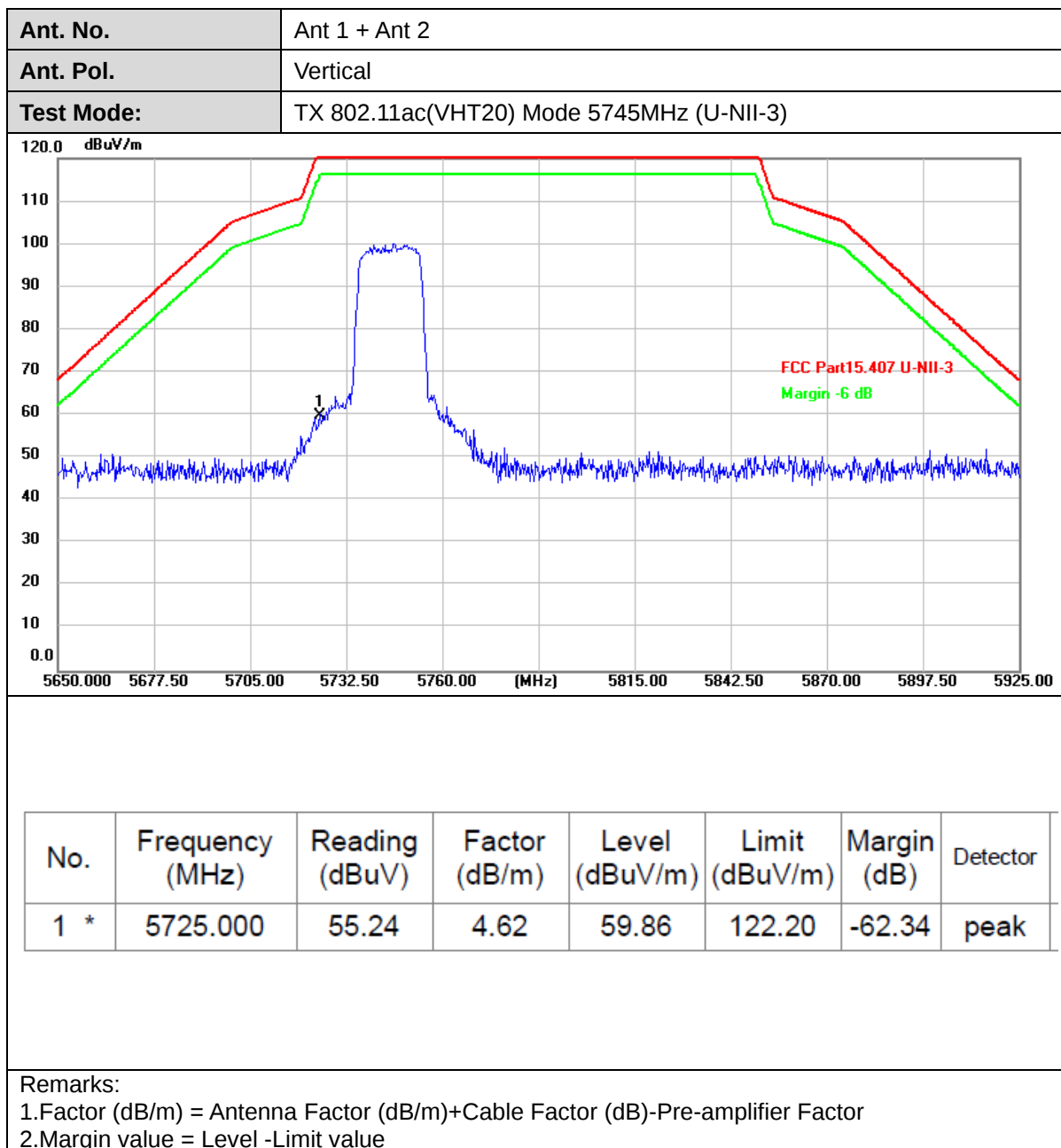


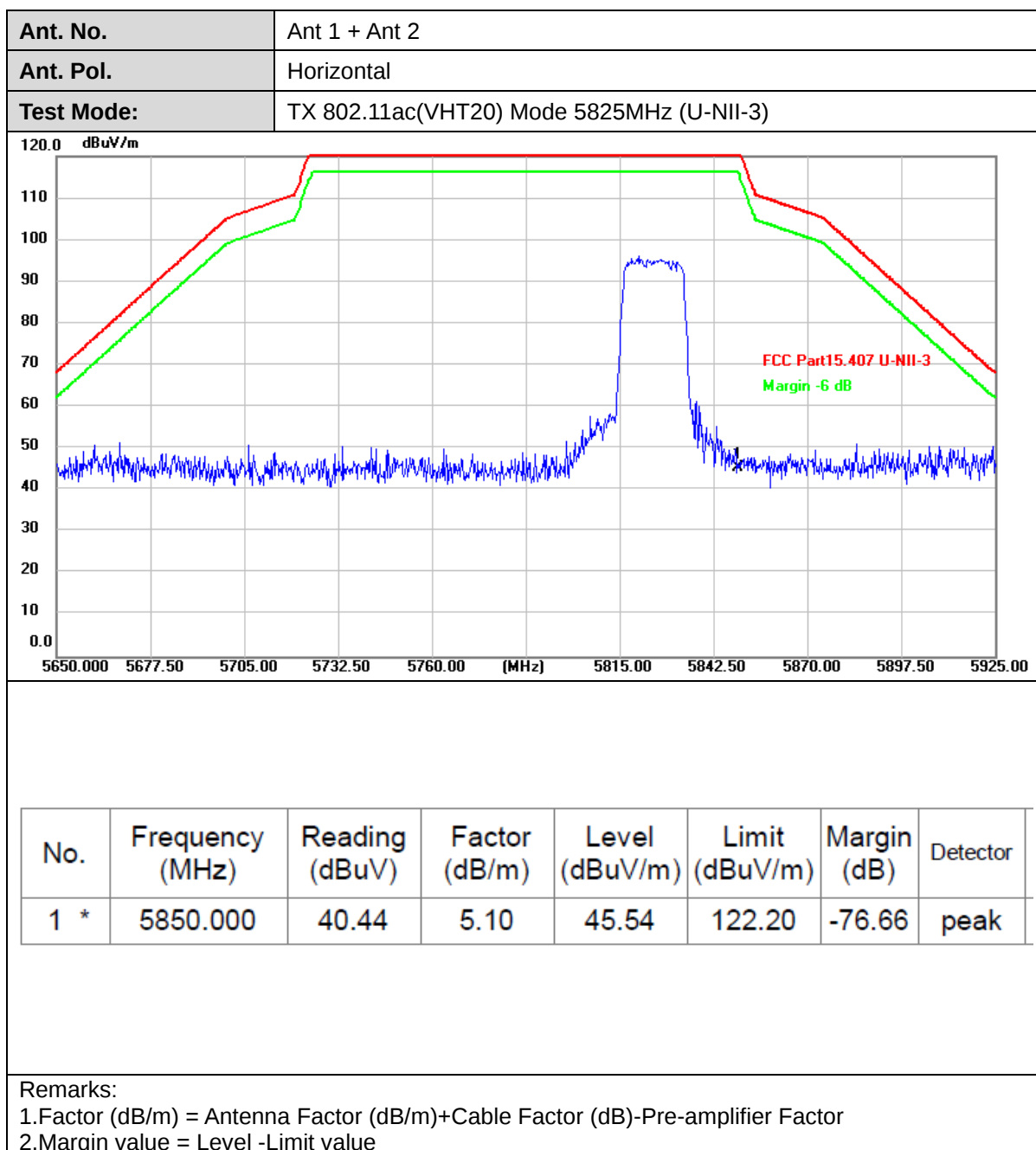


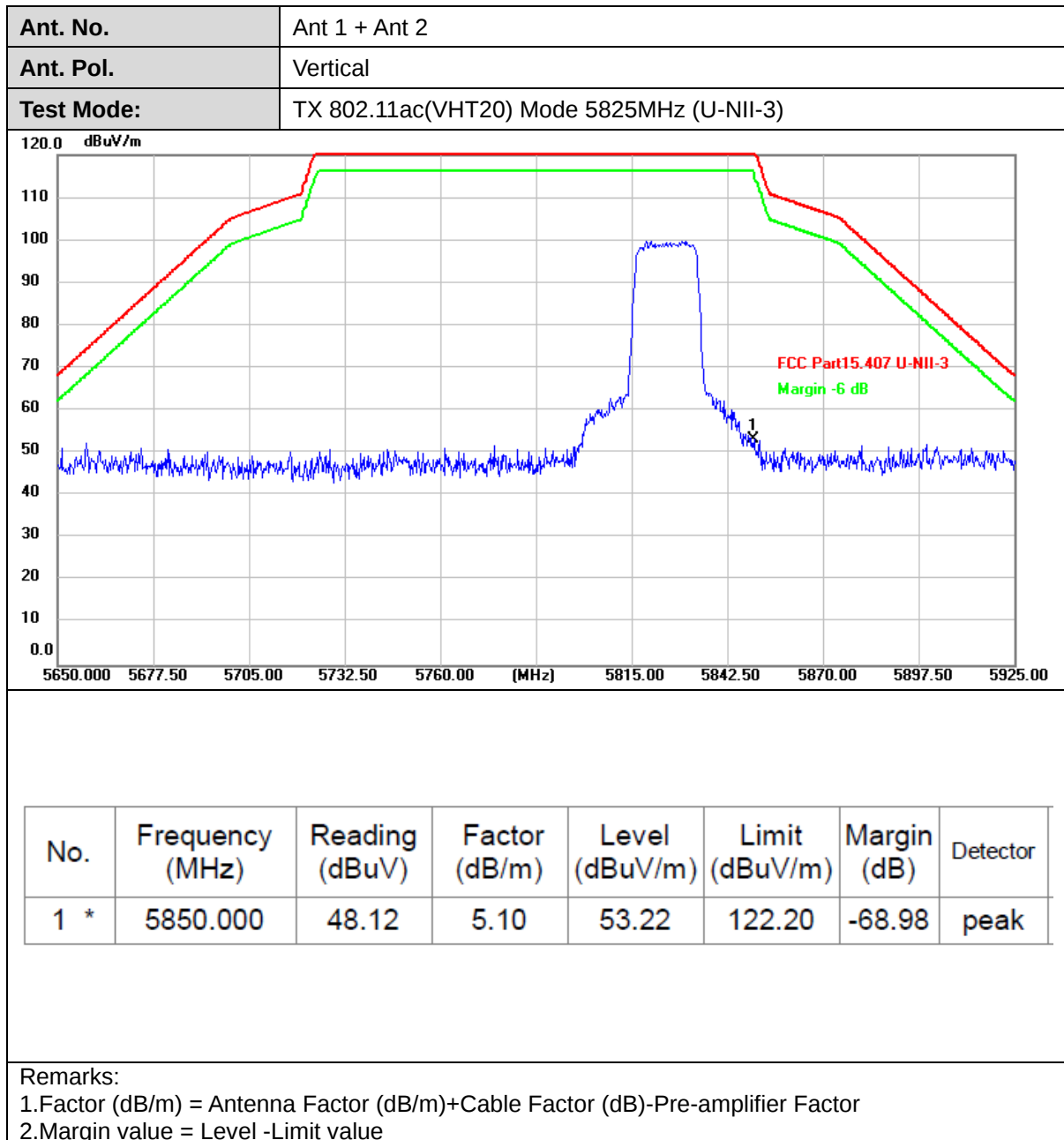


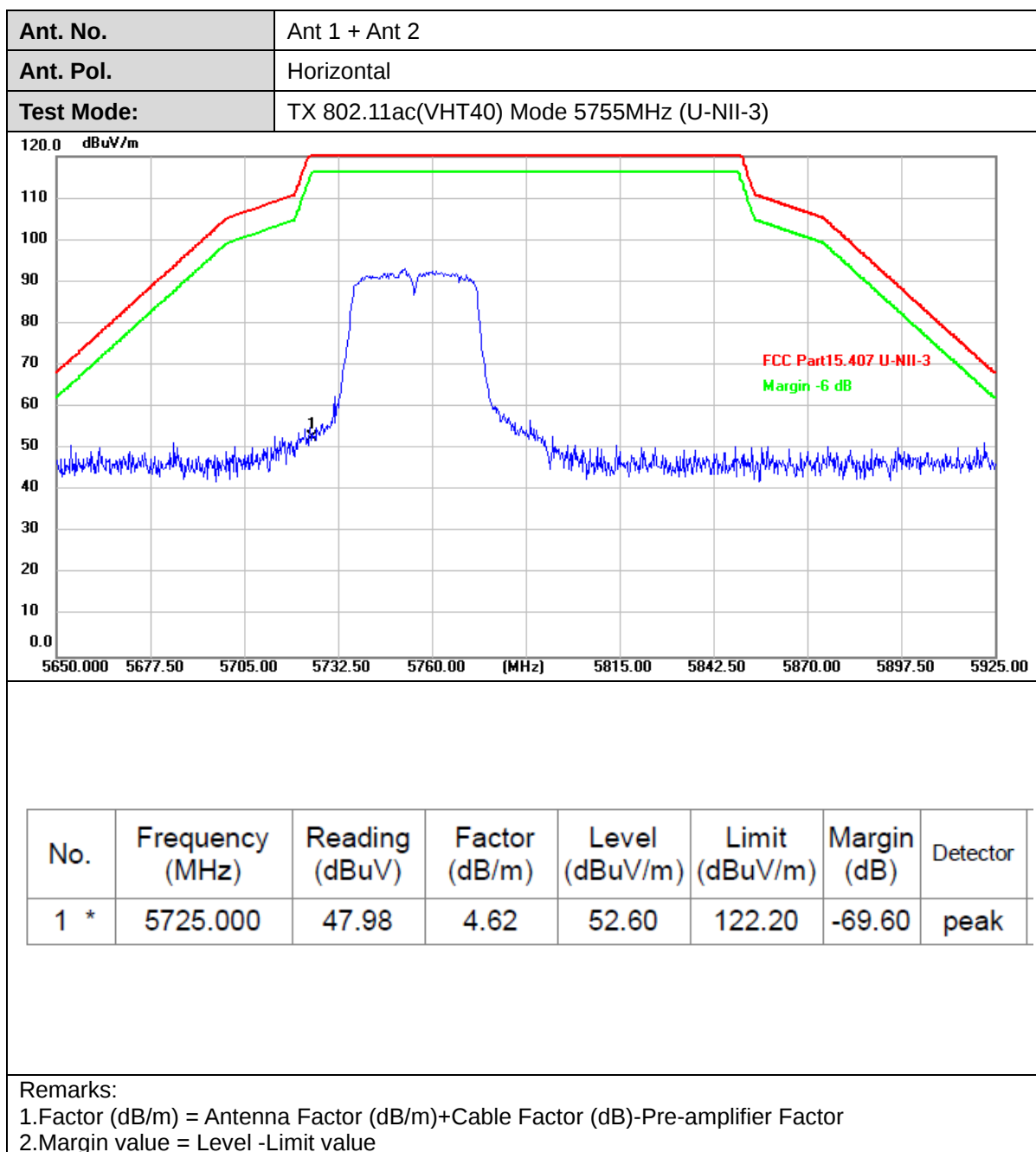


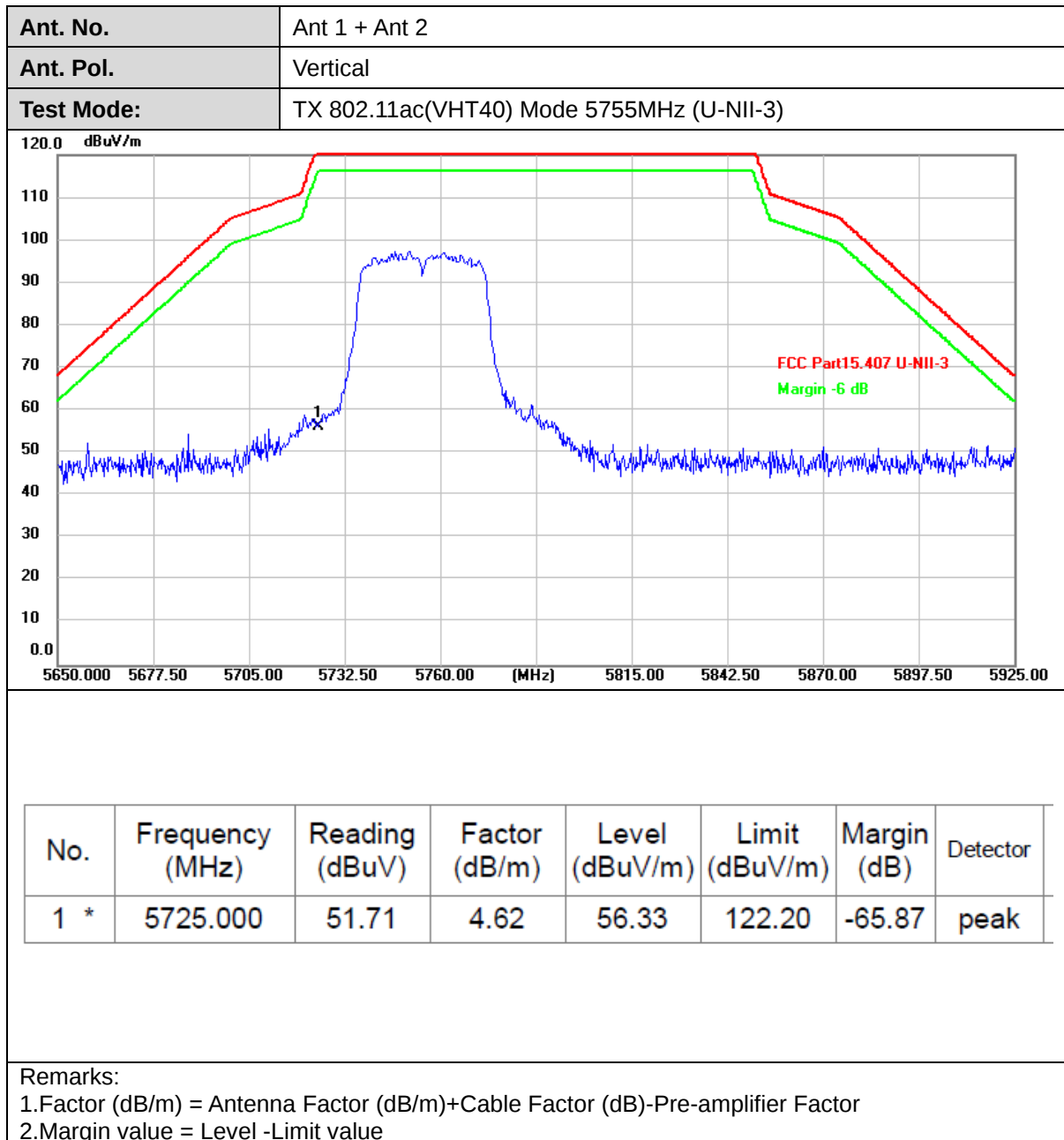


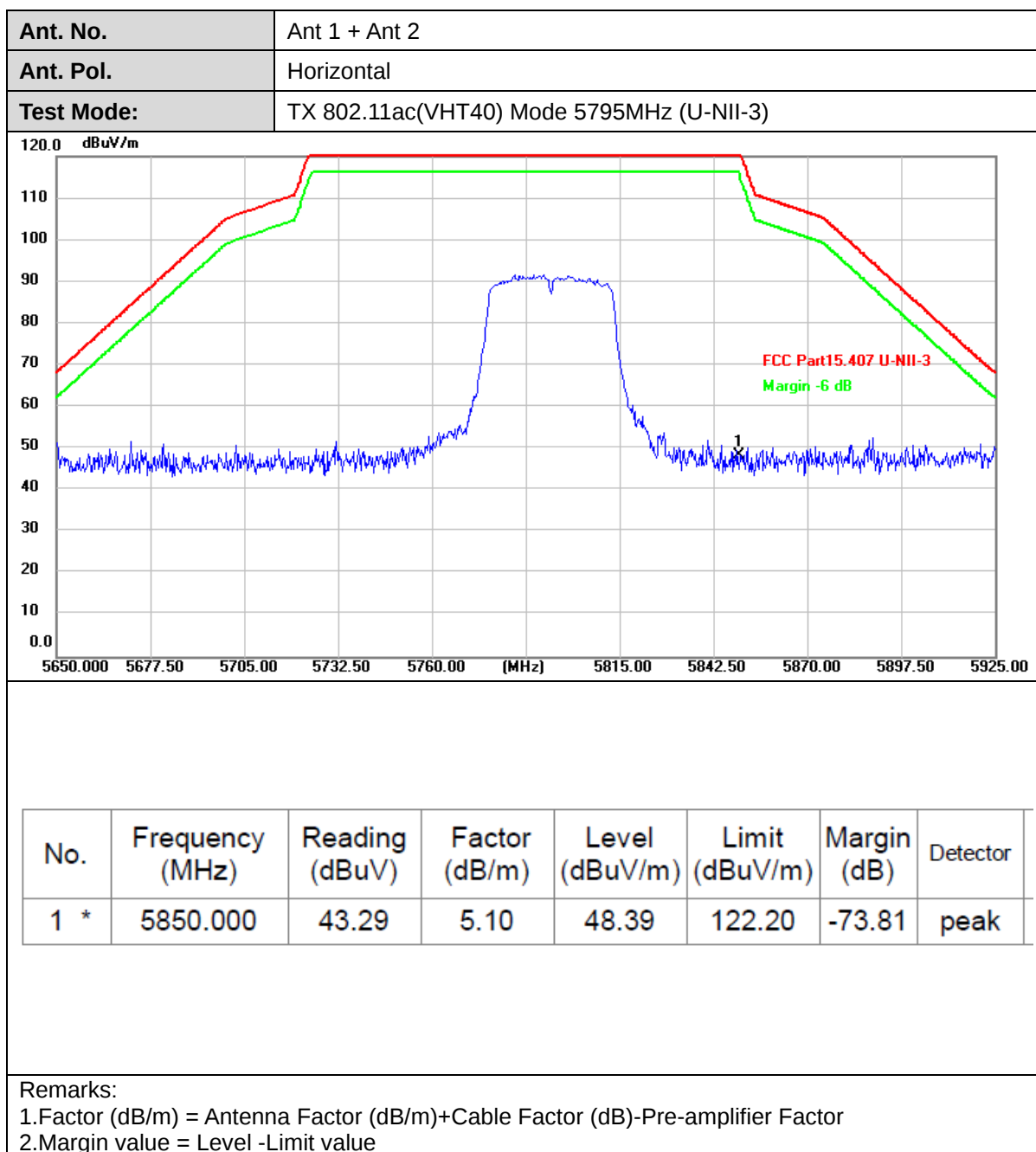


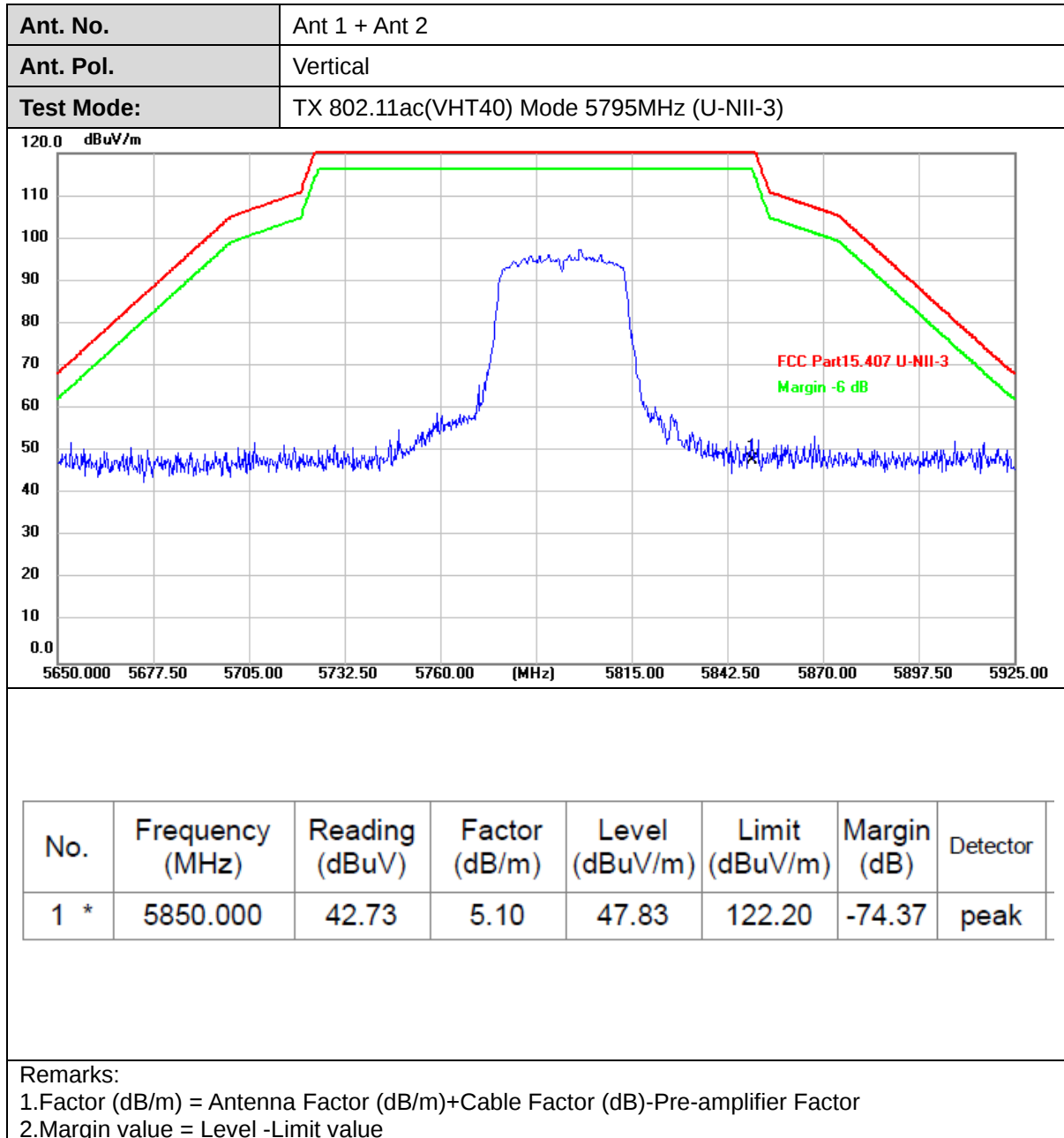


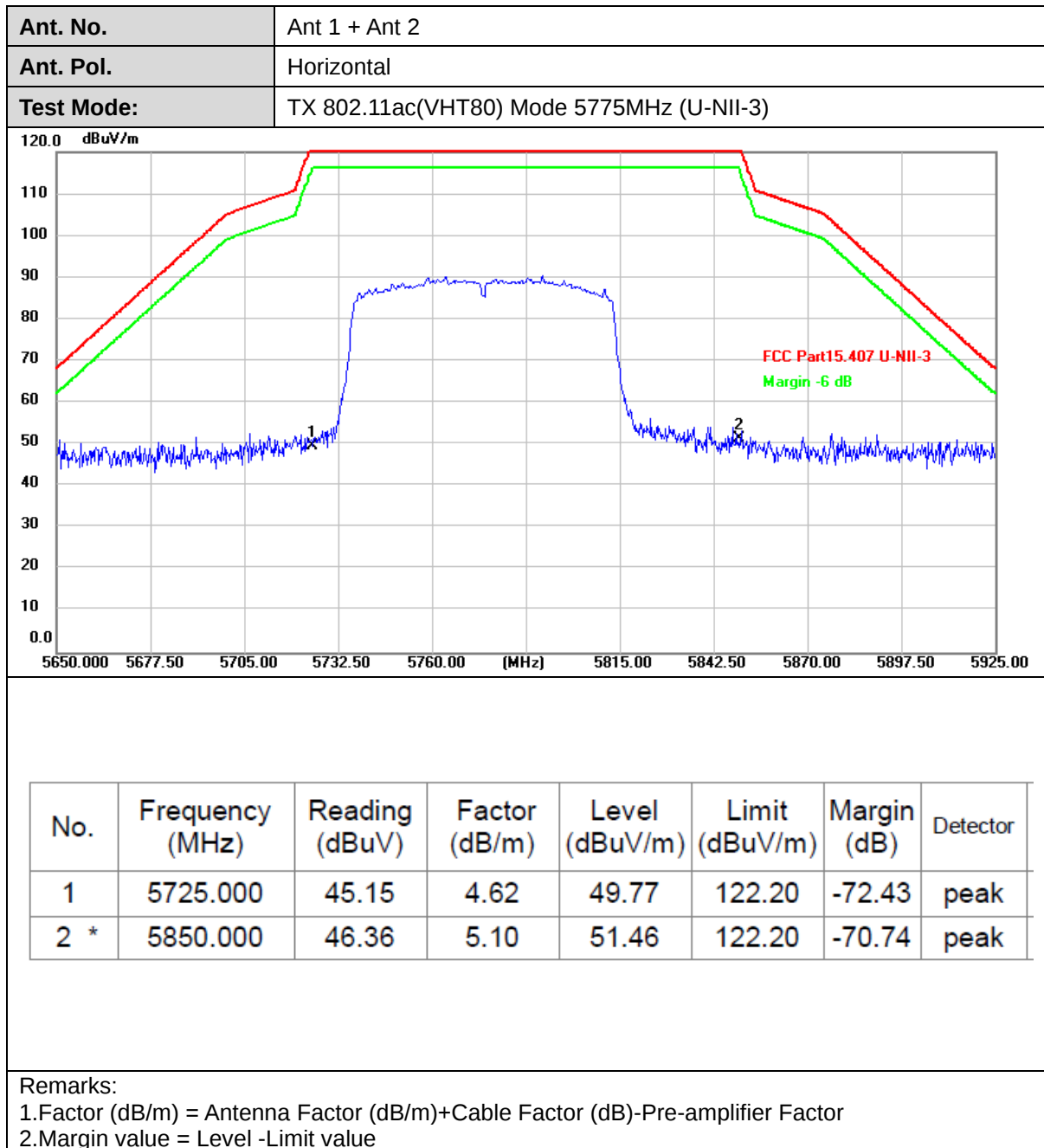


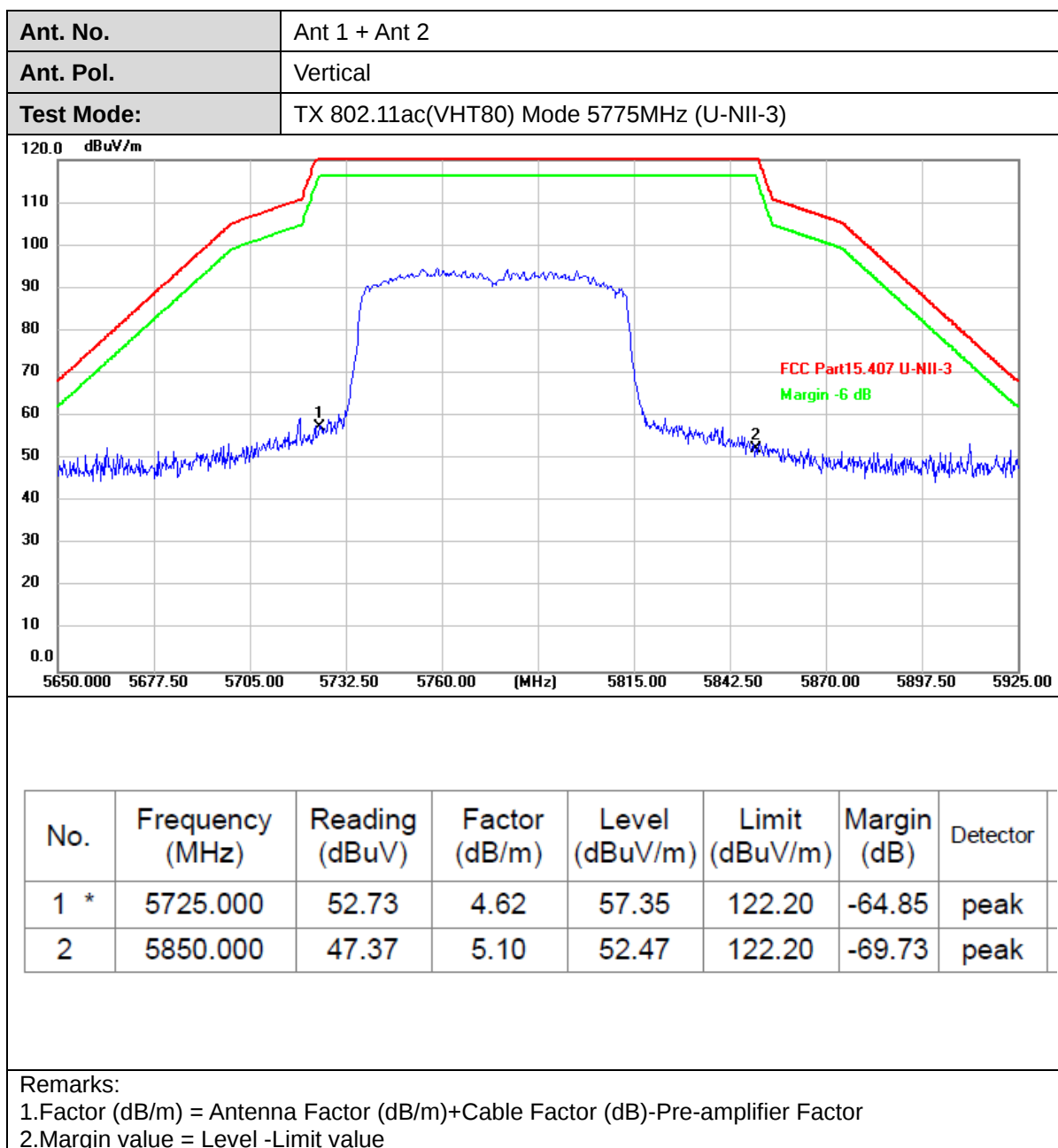














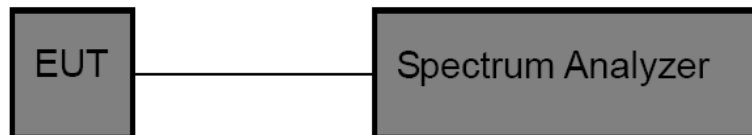
3.4. Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a) & (e)

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****26dB Bandwidth & 99% Bandwidth**

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	OCB [MHz]
11A	Ant1	5180	25.320	16.823
	Ant2	5180	21.160	16.668
	Ant1	5200	30.720	17.321
	Ant2	5200	22.240	16.714
	Ant1	5240	28.560	17.348
	Ant2	5240	30.680	17.414
	Ant1	5260	28.160	16.965
	Ant2	5260	31.400	17.432
	Ant1	5280	29.560	17.202
	Ant2	5280	30.640	17.495
	Ant1	5320	31.480	17.175
	Ant2	5320	29.000	17.004
	Ant1	5500	28.280	17.097
	Ant2	5500	28.120	16.936
	Ant1	5580	26.880	17.005
	Ant2	5580	29.480	17.169
	Ant1	5700	29.720	17.069
	Ant2	5700	25.920	16.936
	Ant1	5745	32.000	17.481
	Ant2	5745	27.280	16.818
	Ant1	5785	29.720	17.459
	Ant2	5785	25.520	16.830
	Ant1	5825	33.800	17.127
	Ant2	5825	23.280	16.677
11N20MIMO	Ant1	5180	19.520	17.659
	Ant2	5180	19.200	17.664
	Ant1	5200	19.520	17.679
	Ant2	5200	19.560	17.670
	Ant1	5240	20.400	17.676
	Ant2	5240	20.240	17.698
	Ant1	5260	19.560	17.683
	Ant2	5260	19.680	17.704
	Ant1	5280	19.480	17.698
	Ant2	5280	19.600	17.723

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	Ant1	5320	19.560	17.663
	Ant2	5320	19.320	17.684
	Ant1	5500	23.080	17.811
	Ant2	5500	20.480	17.756
	Ant1	5580	23.640	17.877
	Ant2	5580	21.640	17.786
	Ant1	5700	21.120	17.782
	Ant2	5700	19.680	17.706
	Ant1	5745	19.440	17.702
	Ant2	5745	19.440	17.667
	Ant1	5785	19.440	17.656
	Ant2	5785	19.400	17.633
	Ant1	5825	19.480	17.673
	Ant2	5825	19.360	17.650
11N40MIMO	Ant1	5190	41.040	36.277
	Ant2	5190	41.040	36.306
	Ant1	5230	41.200	36.387
	Ant2	5230	41.200	36.574
	Ant1	5270	40.720	36.364
	Ant2	5270	41.120	36.442
	Ant1	5310	41.440	36.454
	Ant2	5310	41.040	36.502
	Ant1	5510	49.600	36.840
	Ant2	5510	45.280	36.602
	Ant1	5550	71.520	38.039
	Ant2	5550	54.640	36.858
	Ant1	5670	49.120	36.647
	Ant2	5670	41.520	36.530
	Ant1	5755	43.920	36.488
	Ant2	5755	42.000	36.457
	Ant1	5795	41.200	36.507
	Ant2	5795	41.200	36.510
11AC20MIMO	Ant1	5180	19.480	17.656
	Ant2	5180	19.400	17.656
	Ant1	5200	19.360	17.648
	Ant2	5200	19.320	17.647
	Ant1	5240	19.480	17.661
	Ant2	5240	19.440	17.657

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	Ant1	5260	19.560	17.666
	Ant2	5260	19.480	17.681
	Ant1	5280	19.480	17.661
	Ant2	5280	19.440	17.648
	Ant1	5320	19.360	17.633
	Ant2	5320	19.560	17.628
	Ant1	5500	20.120	17.753
	Ant2	5500	19.640	17.710
	Ant1	5580	27.320	18.037
	Ant2	5580	25.240	17.821
	Ant1	5700	19.480	17.710
	Ant2	5700	19.440	17.664
	Ant1	5745	19.400	17.656
	Ant2	5745	19.360	17.627
	Ant1	5785	19.360	17.651
	Ant2	5785	19.400	17.642
	Ant1	5825	19.400	17.649
	Ant2	5825	19.360	17.642
11AC40MIMO	Ant1	5190	41.360	36.379
	Ant2	5190	41.280	36.328
	Ant1	5230	41.360	36.428
	Ant2	5230	41.280	36.341
	Ant1	5270	41.120	36.376
	Ant2	5270	41.760	36.430
	Ant1	5310	40.800	36.450
	Ant2	5310	41.040	36.421
	Ant1	5510	50.480	36.530
	Ant2	5510	41.040	36.321
	Ant1	5550	42.400	36.424
	Ant2	5550	40.480	36.269
	Ant1	5670	52.960	36.742
	Ant2	5670	41.280	36.497
	Ant1	5755	41.040	36.386
	Ant2	5755	41.200	36.364
	Ant1	5795	41.680	36.600
	Ant2	5795	41.280	36.558
11AC80MIMO	Ant1	5210	80.480	74.816
	Ant2	5210	80.320	74.375

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	Ant1	5290	81.120	74.832
	Ant2	5290	81.440	74.818
	Ant1	5530	88.160	75.002
	Ant2	5530	80.480	74.561
	Ant1	5610	95.040	74.712
	Ant2	5610	90.880	74.384
	Ant1	5775	80.960	74.689
	Ant2	5775	80.960	74.514

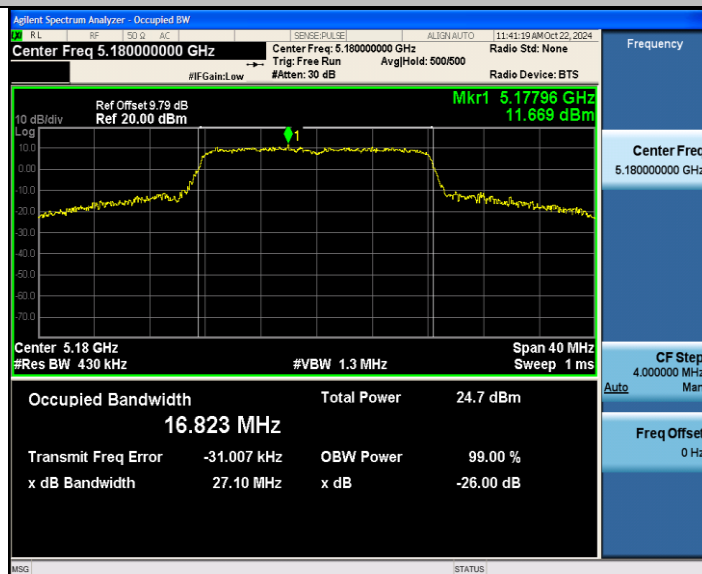
**6dB Bandwidth**

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.280	0.5	PASS
	Ant2	5745	16.320	0.5	PASS
	Ant1	5785	16.320	0.5	PASS
	Ant2	5785	16.320	0.5	PASS
	Ant1	5825	16.120	0.5	PASS
	Ant2	5825	16.320	0.5	PASS
11N20MIMO	Ant1	5745	16.520	0.5	PASS
	Ant2	5745	17.560	0.5	PASS
	Ant1	5785	17.240	0.5	PASS
	Ant2	5785	17.560	0.5	PASS
	Ant1	5825	17.560	0.5	PASS
	Ant2	5825	17.160	0.5	PASS
11N40MIMO	Ant1	5755	32.640	0.5	PASS
	Ant2	5755	33.840	0.5	PASS
	Ant1	5795	35.120	0.5	PASS
	Ant2	5795	35.360	0.5	PASS
11AC20MIMO	Ant1	5745	17.560	0.5	PASS
	Ant2	5745	17.560	0.5	PASS
	Ant1	5785	17.280	0.5	PASS
	Ant2	5785	17.560	0.5	PASS
	Ant1	5825	17.280	0.5	PASS
	Ant2	5825	17.560	0.5	PASS
11AC40MIMO	Ant1	5755	35.040	0.5	PASS
	Ant2	5755	35.120	0.5	PASS
	Ant1	5795	33.840	0.5	PASS
	Ant2	5795	33.920	0.5	PASS
11AC80MIMO	Ant1	5775	73.760	0.5	PASS
	Ant2	5775	74.880	0.5	PASS

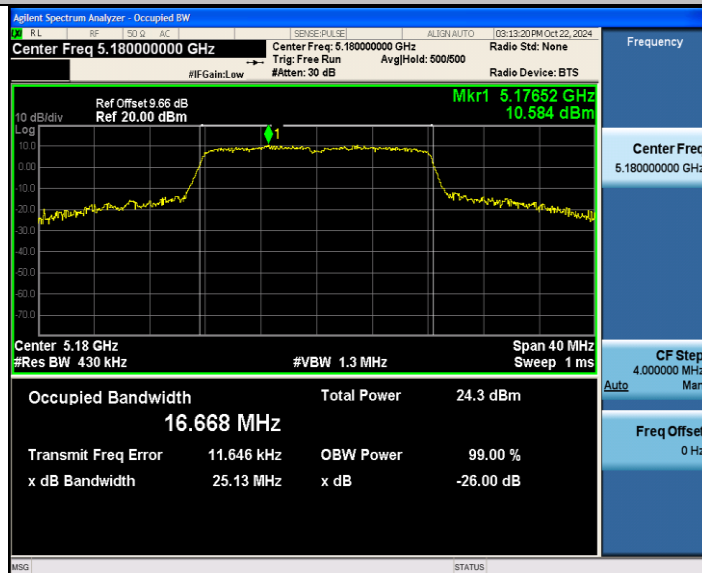


99% Bandwidth:

11A_Ant1_5180



11A_Ant2_5180



11A_Ant1_5200



11A_Ant2_5200



11A_Ant1_5240



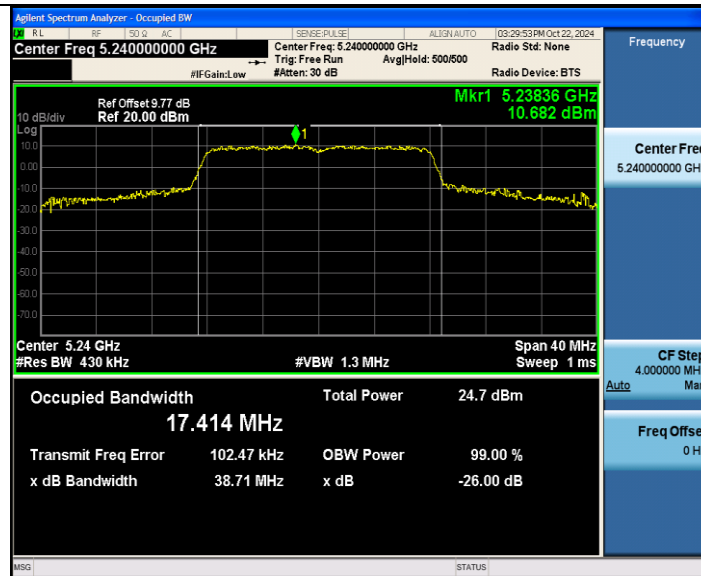
11A_Ant2_5240

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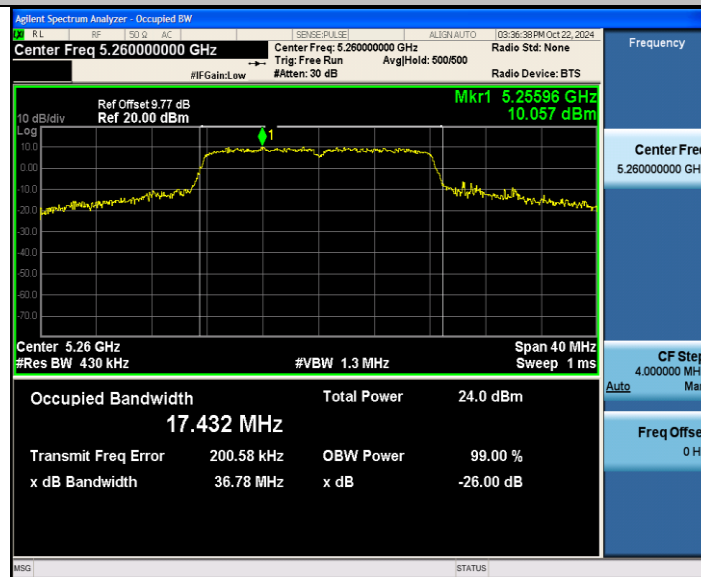
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11A_Ant1_5260



11A_Ant2_5260



11A_Ant1_5280

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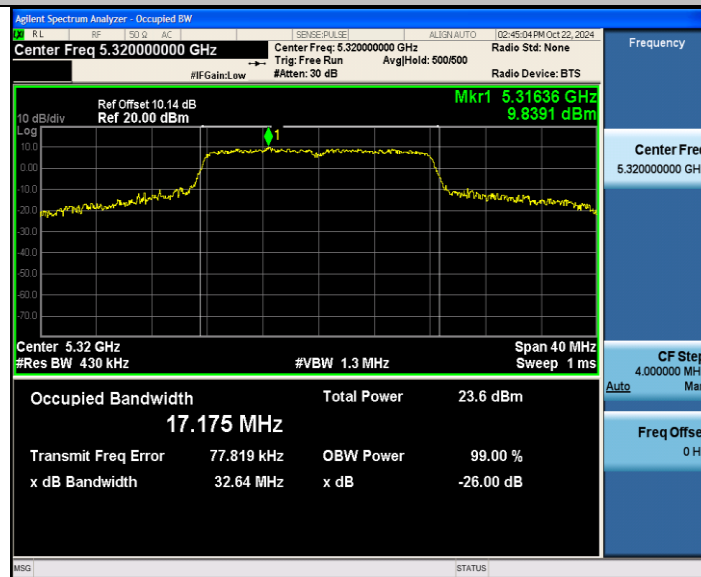
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11A_Ant2_5280



11A_Ant1_5320



11A_Ant2_5320

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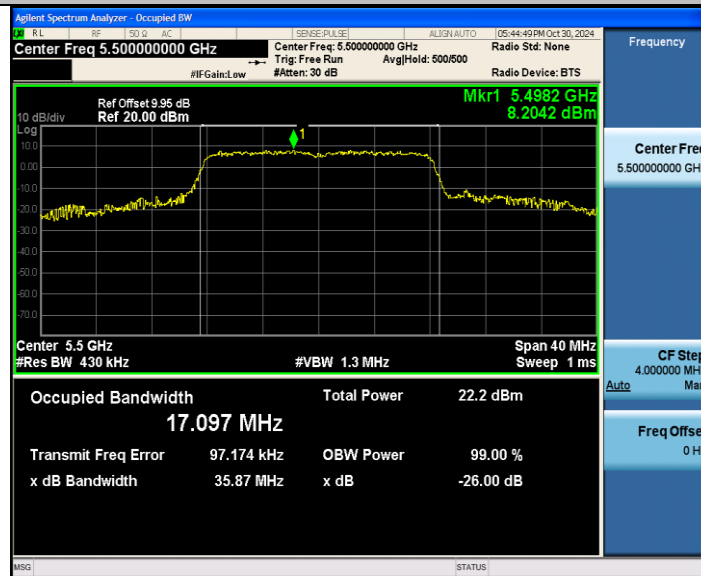
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11A_Ant1_5500



11A_Ant2_5500



11A_Ant1_5580

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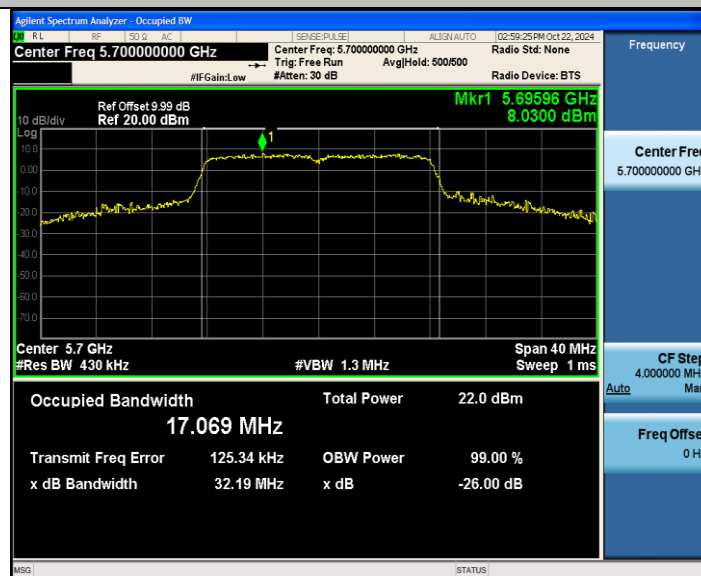
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11A_Ant2_5580



11A_Ant1_5700



11A_Ant2_5700

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TRF No: CTC-TR-062_A1

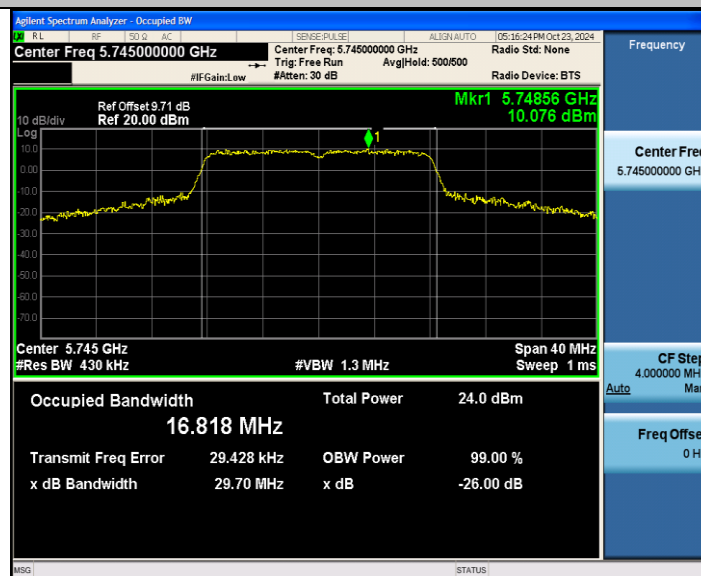
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11A_Ant1_5745



11A_Ant2_5745



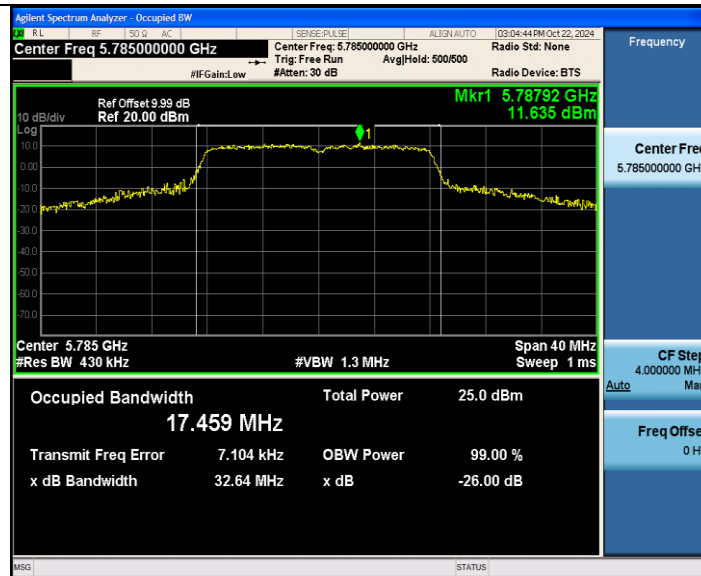
11A_Ant1_5785

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TRF No: CTC-TR-062_A1

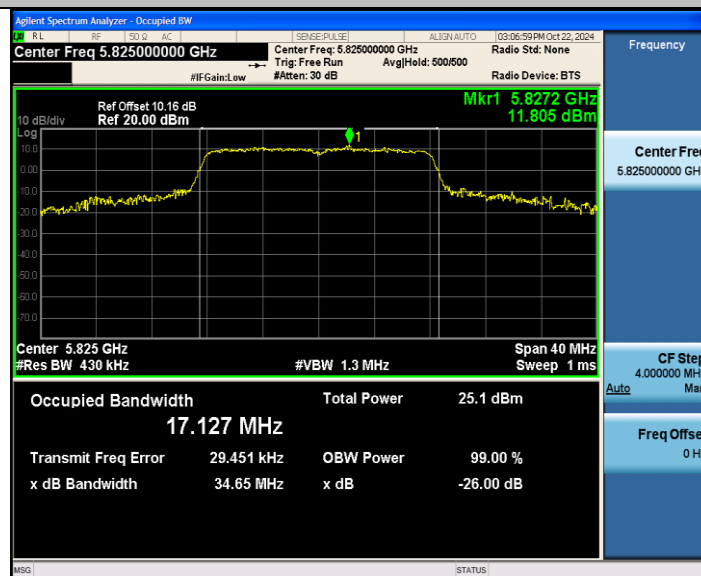
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11A_Ant2_5785



11A_Ant1_5825



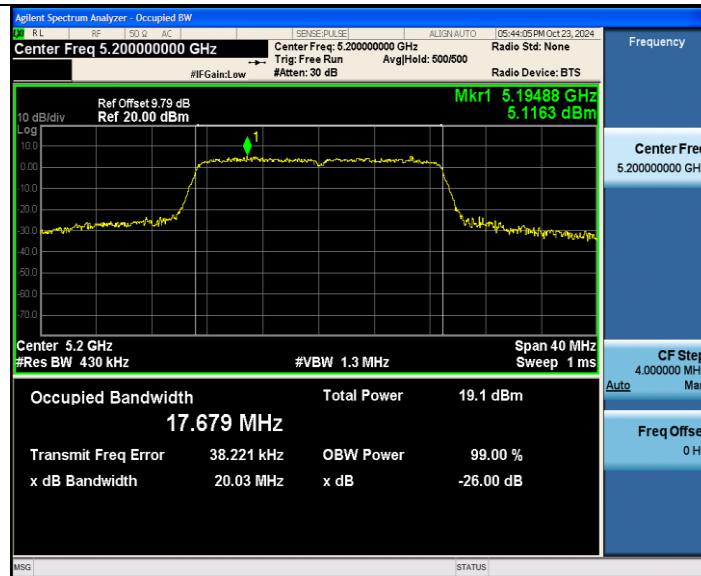
11A_Ant2_5825

CTC Laboratories, Inc.

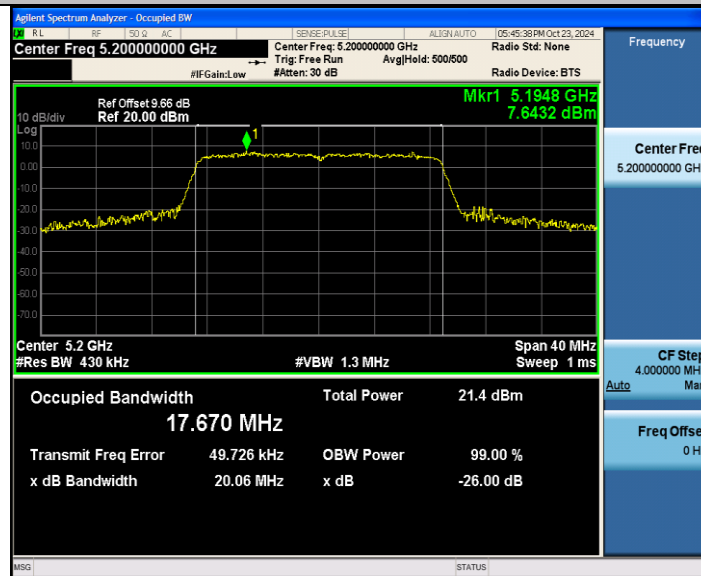
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A1

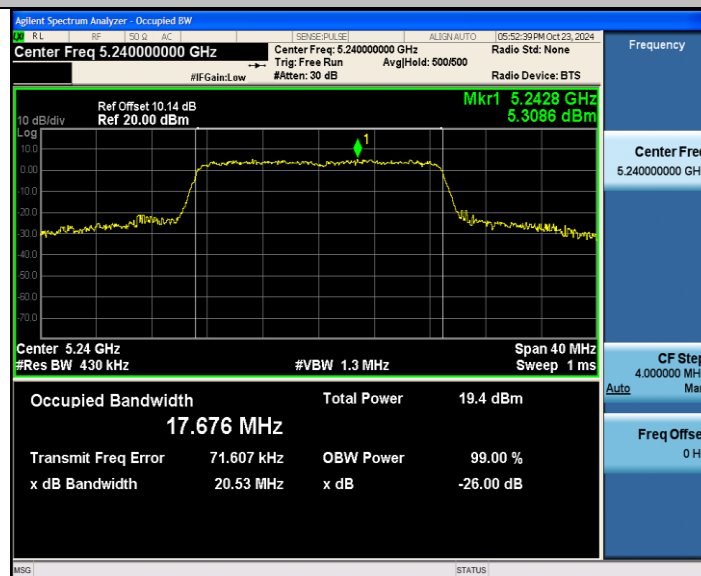
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11N20MIMO_Ant2_5200



11N20MIMO_Ant1_5240



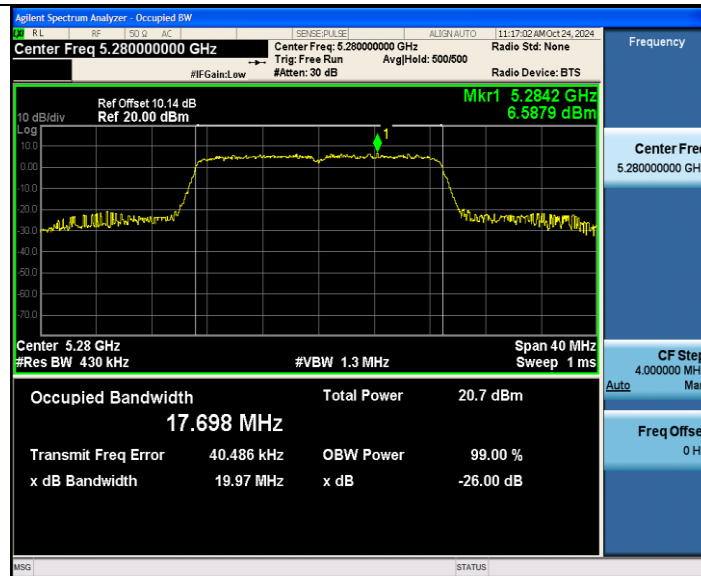
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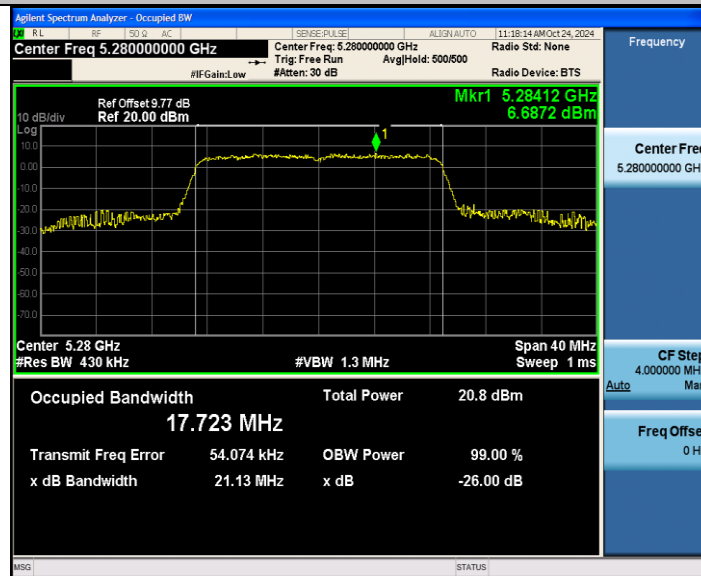
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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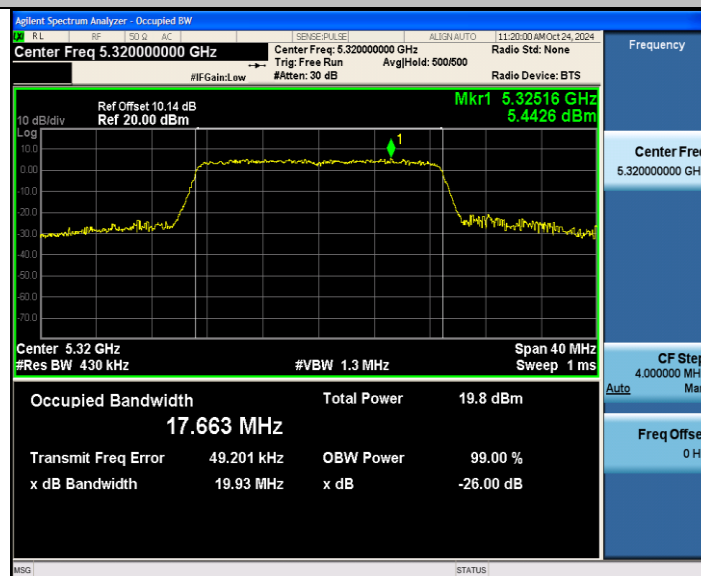
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11N20MIMO_Ant2_5280



11N20MIMO_Ant1_5320



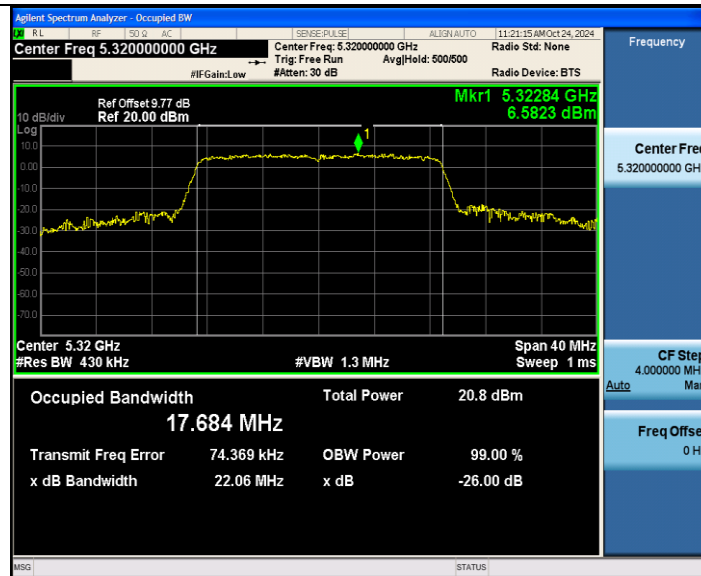
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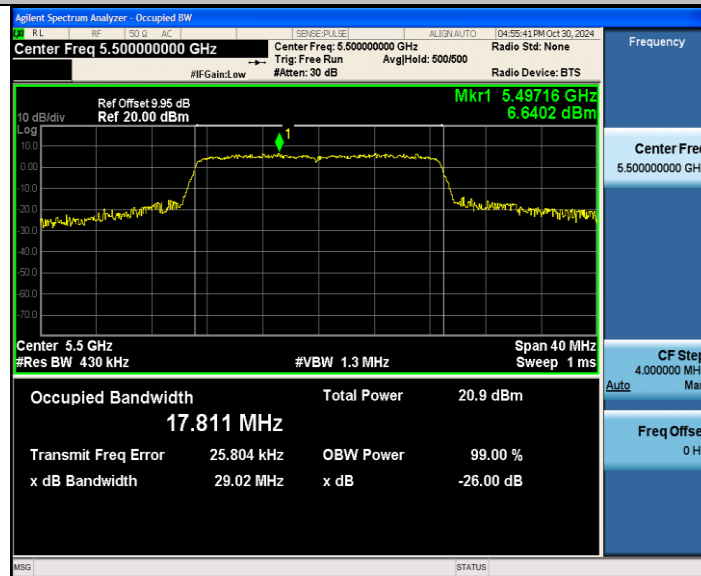
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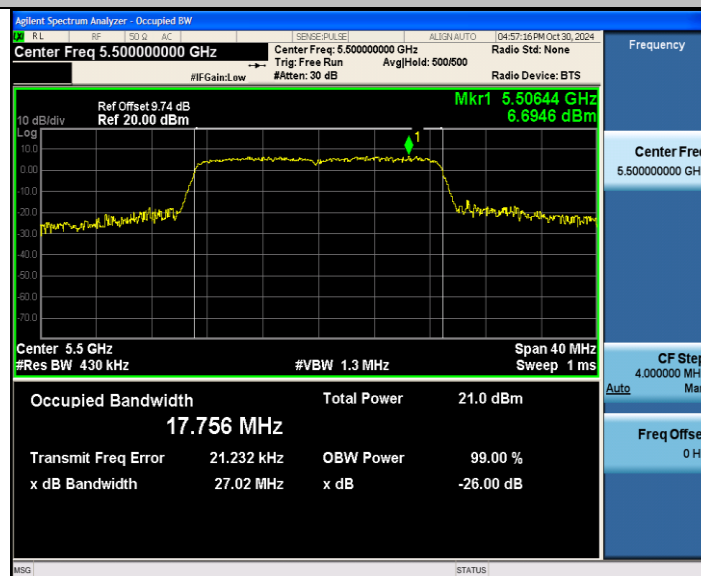
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11N20MIMO_Ant1_5500



11N20MIMO_Ant2_5500



11N20MIMO_Ant1_5580

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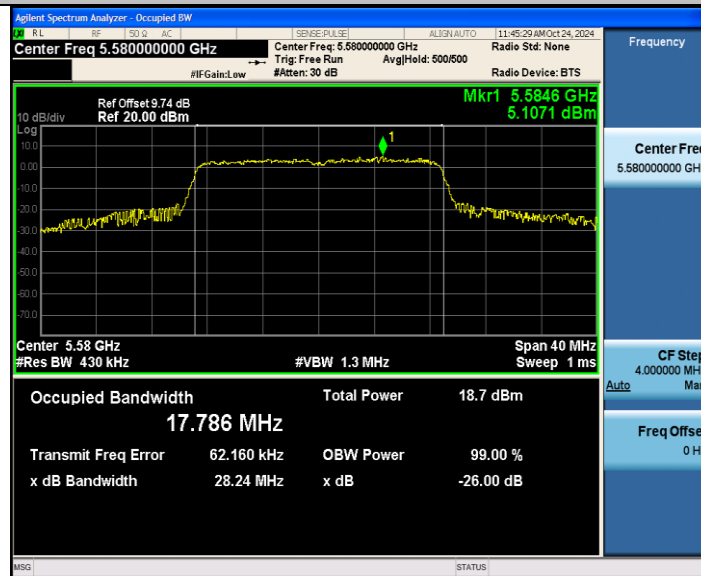
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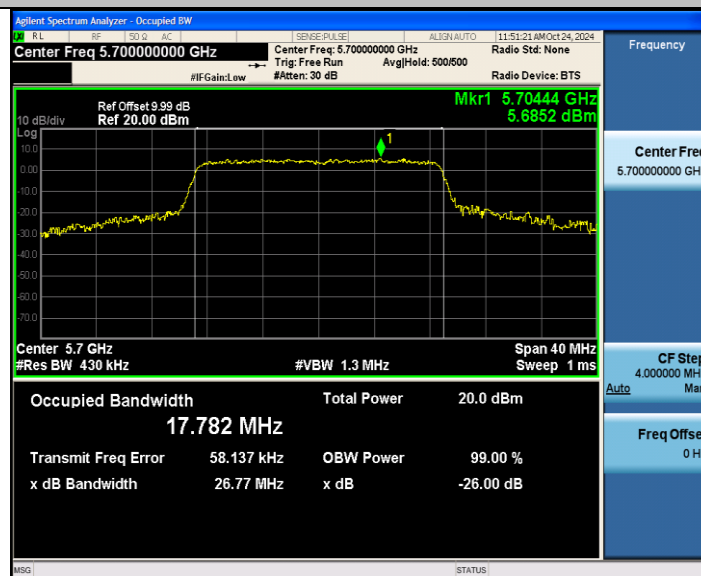
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11N20MIMO_Ant2_5580



11N20MIMO_Ant1_5700



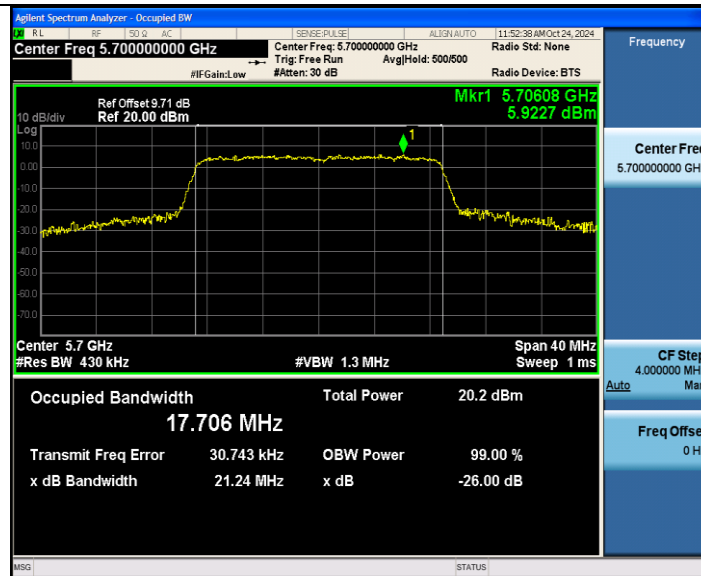
11N20MIMO_Ant2_5700

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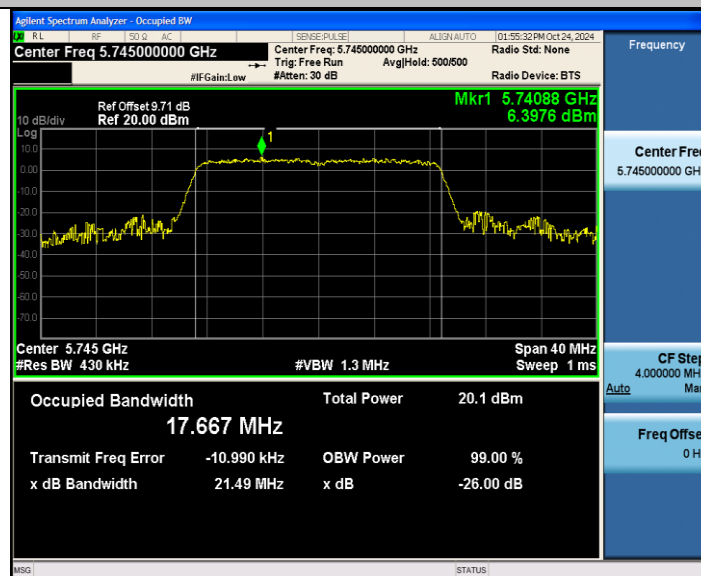
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11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785

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