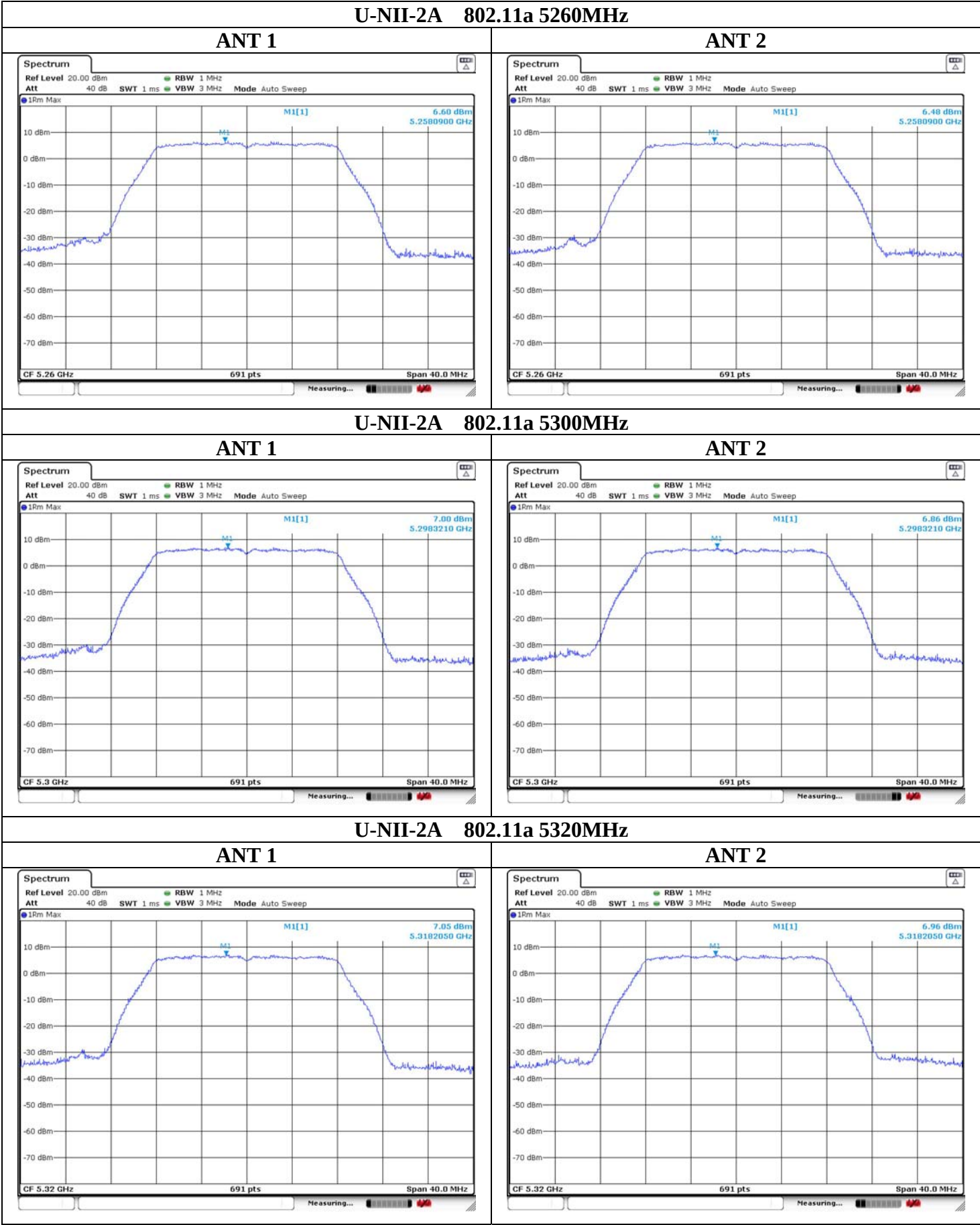
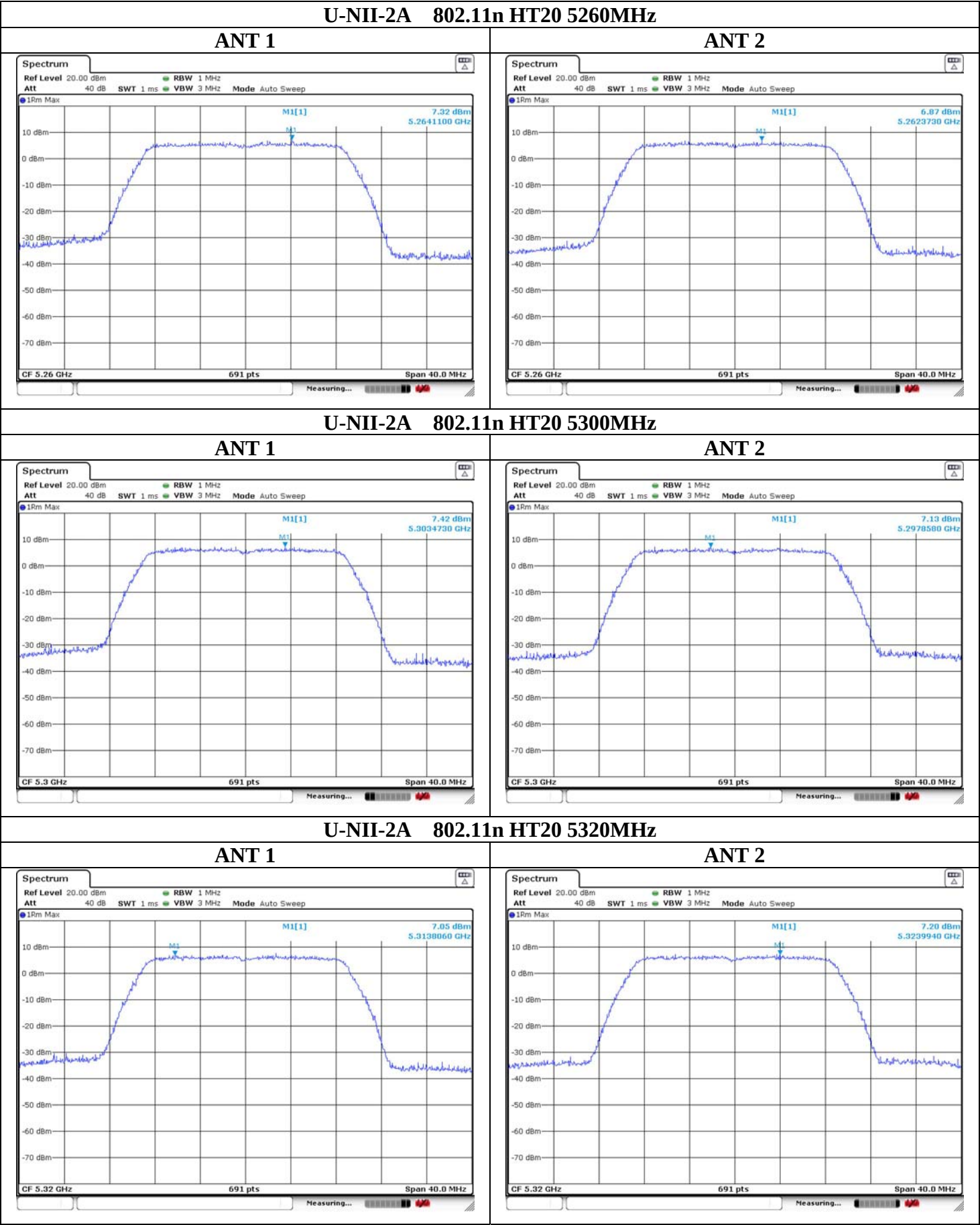
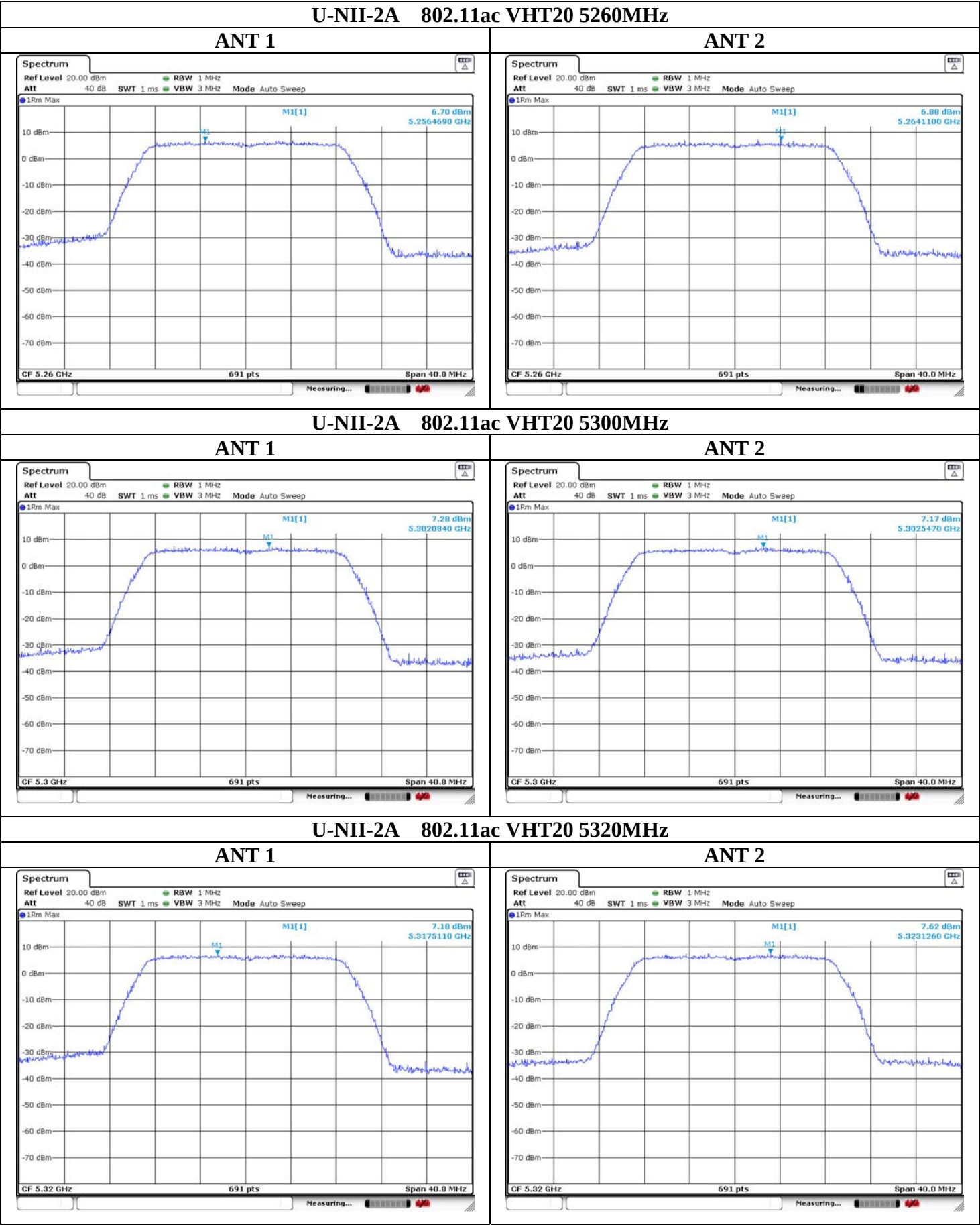
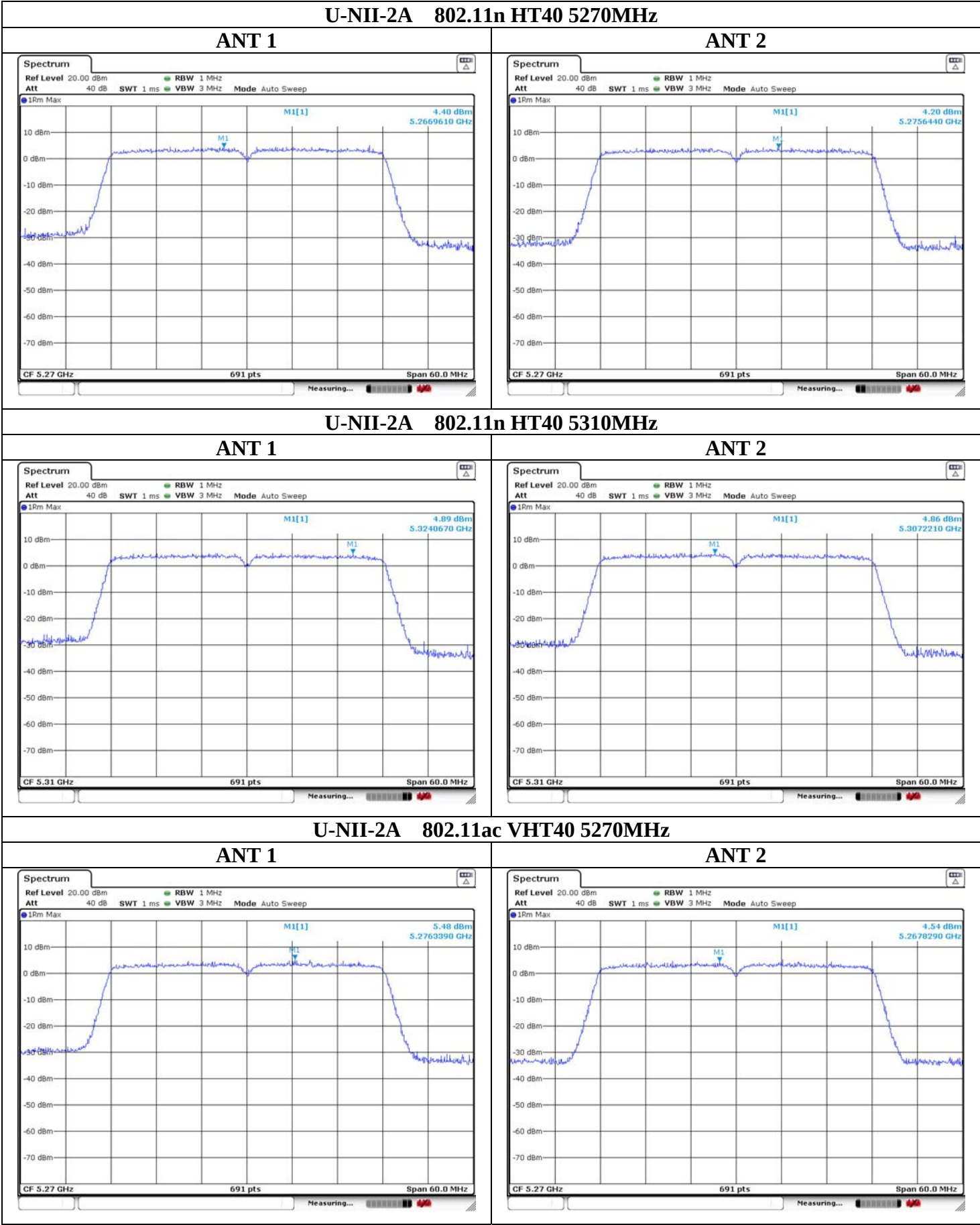
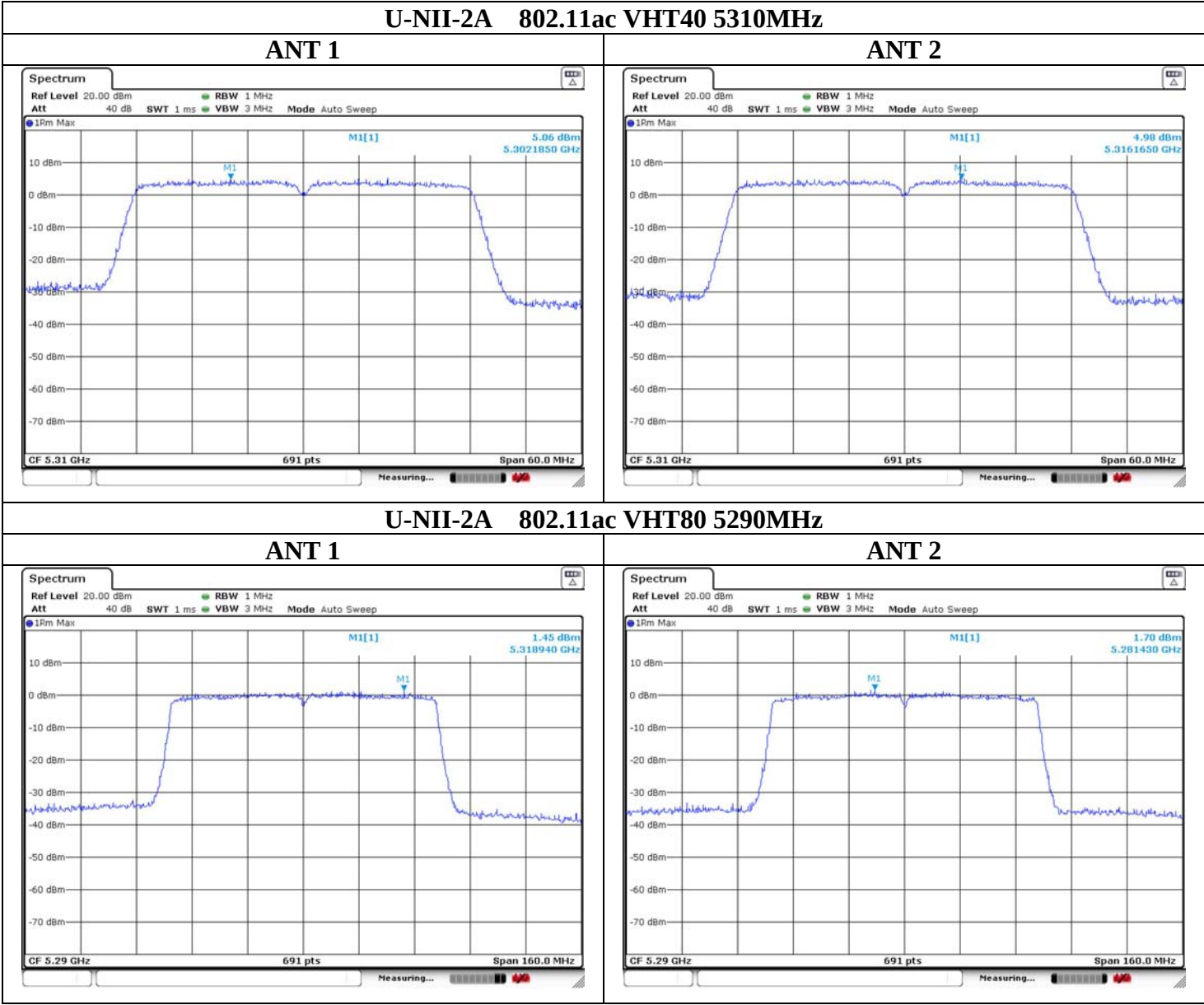


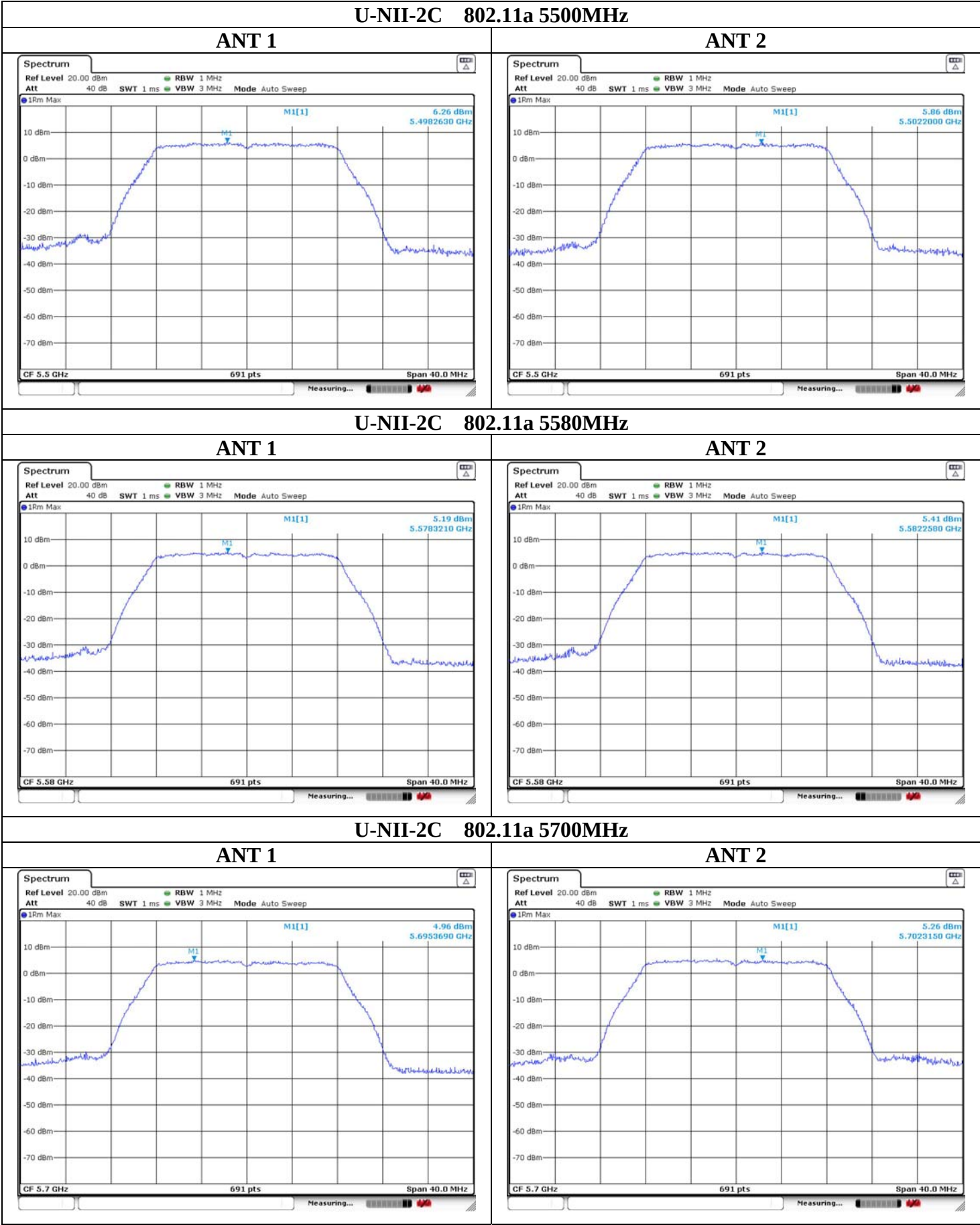


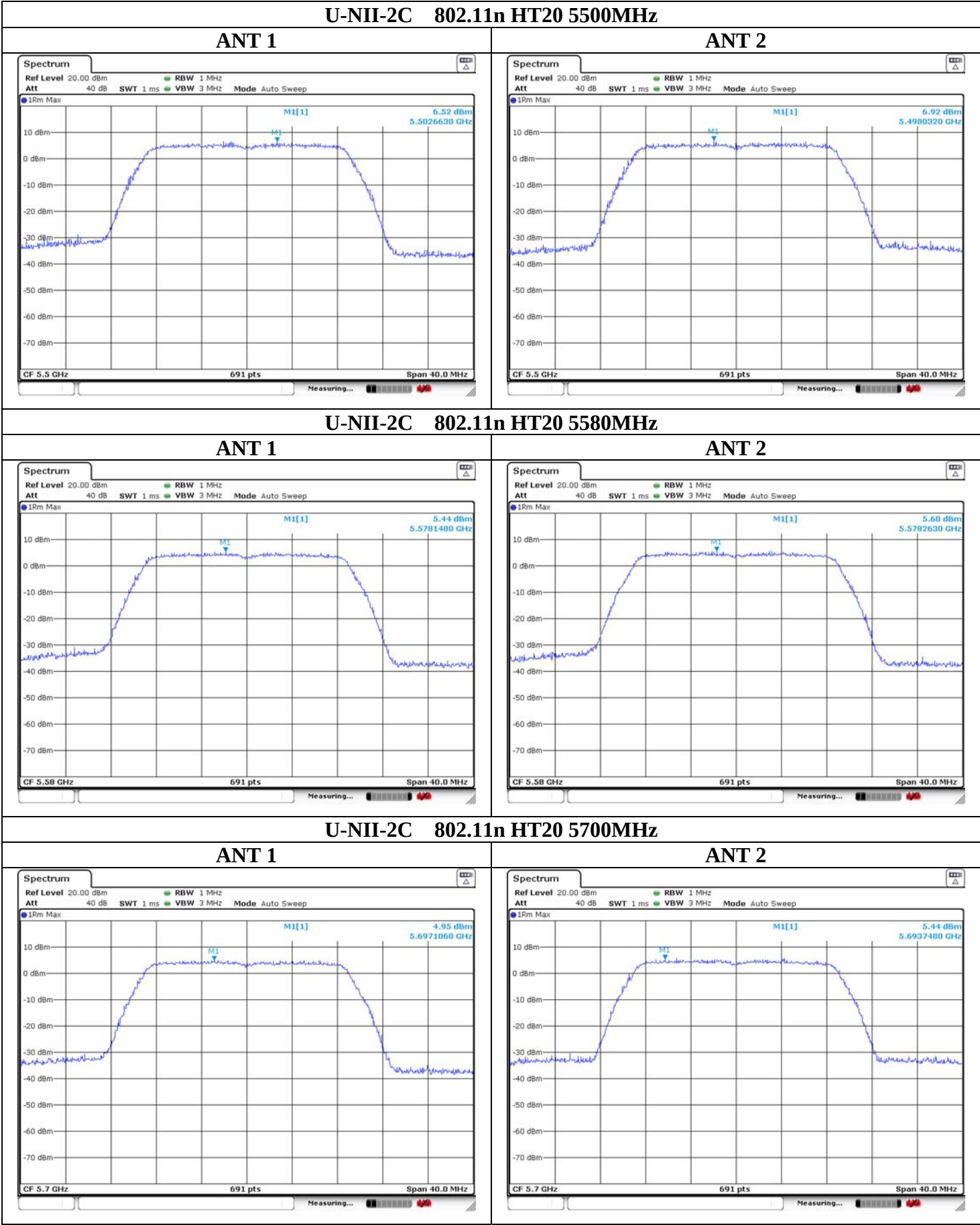


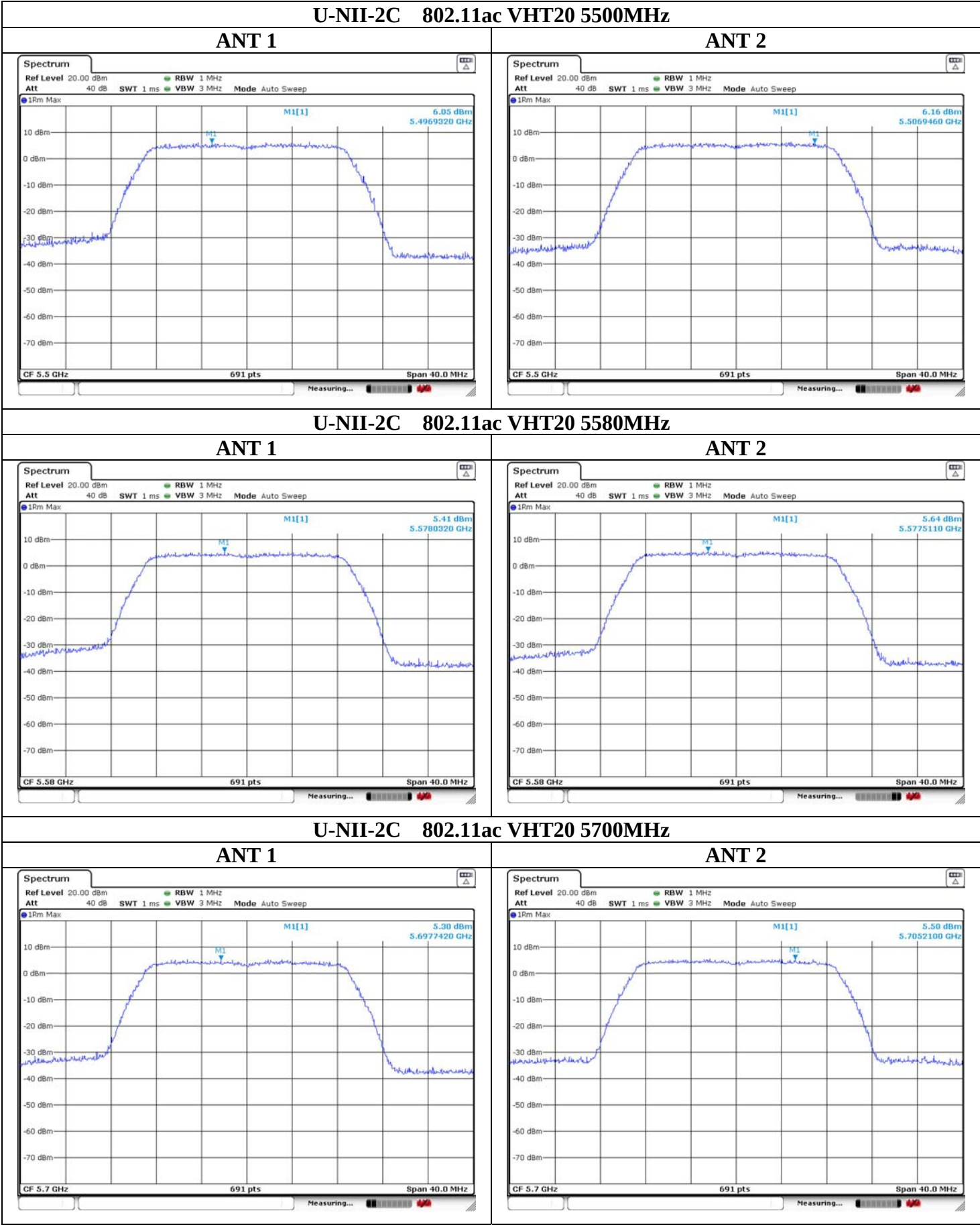


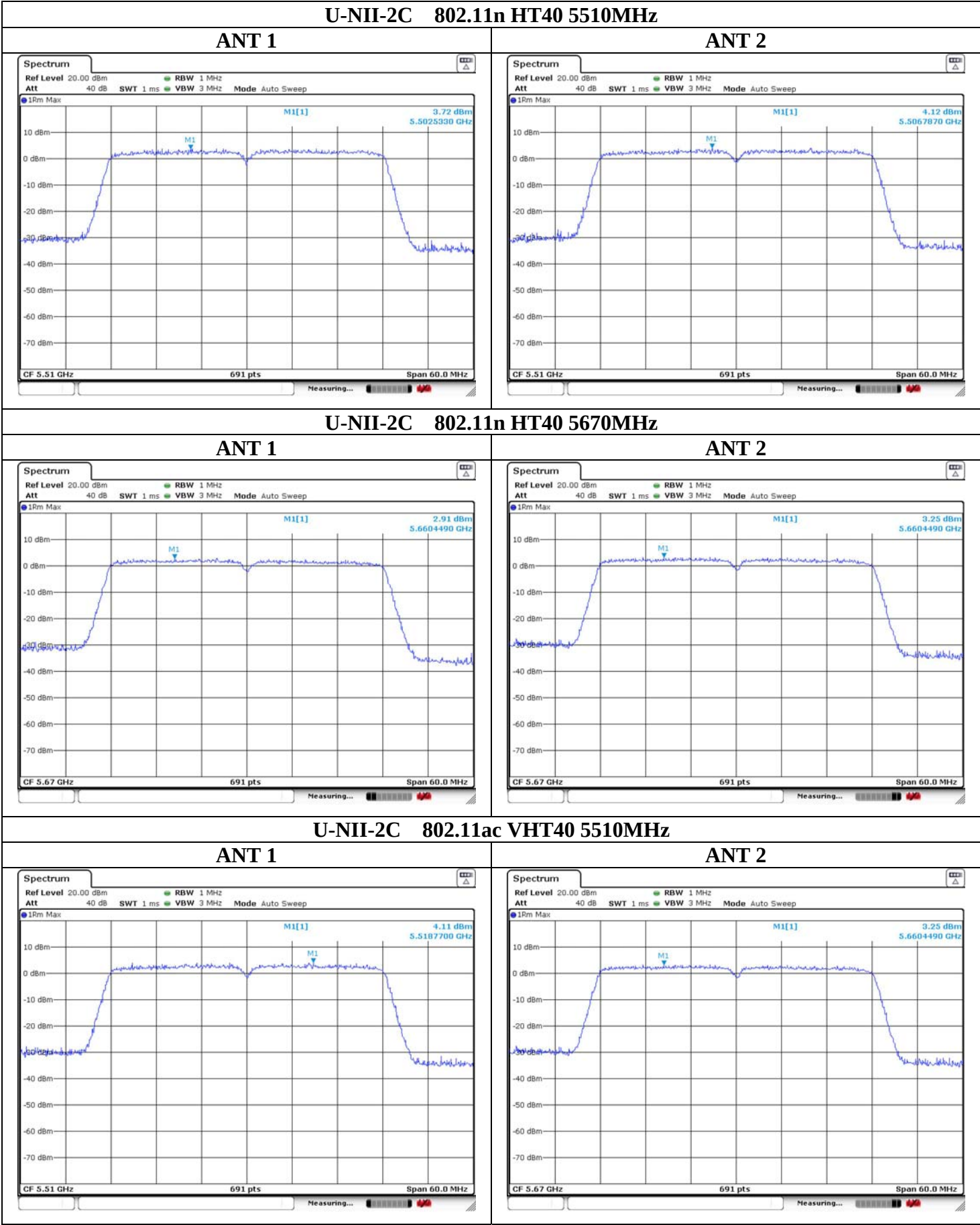


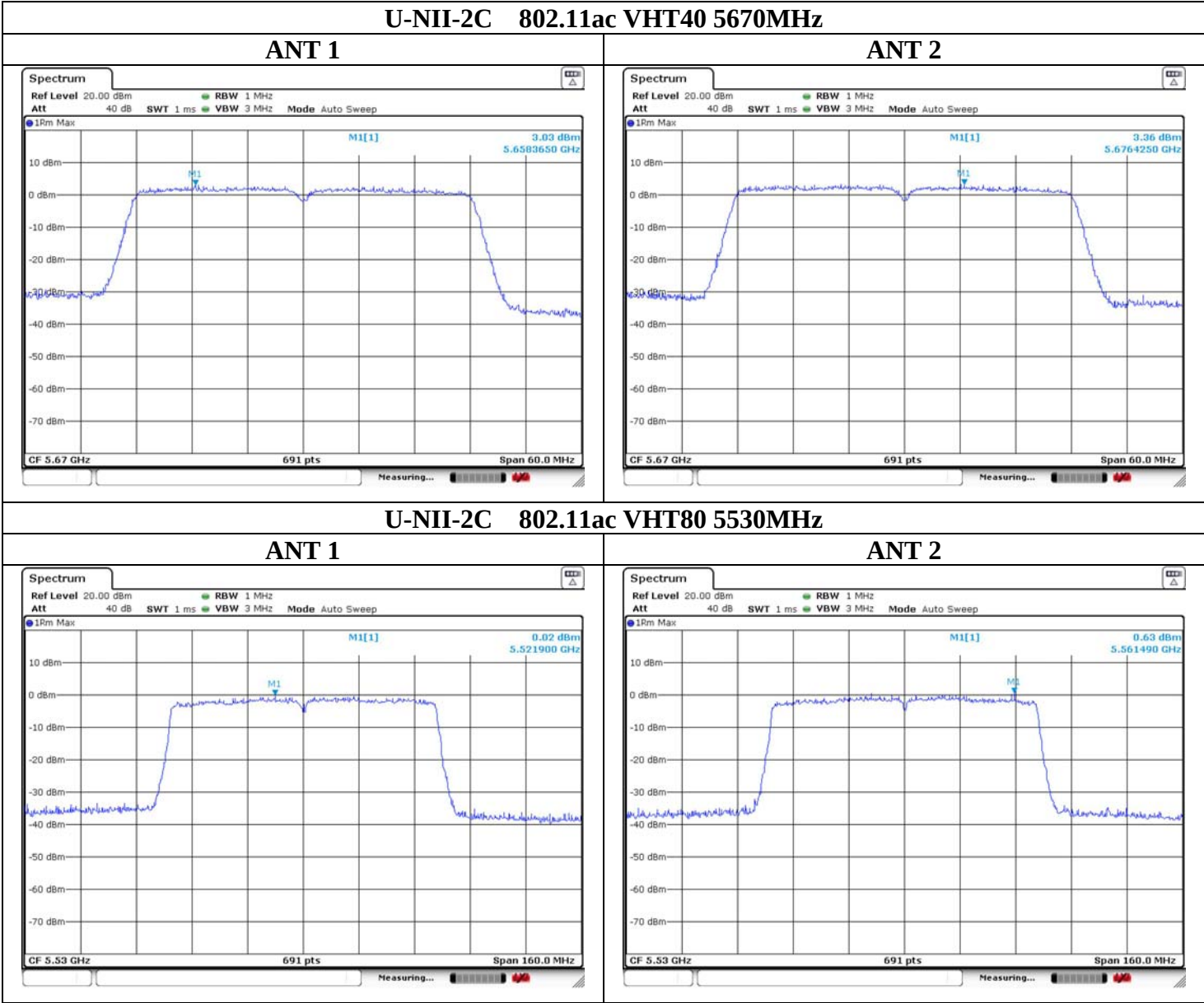


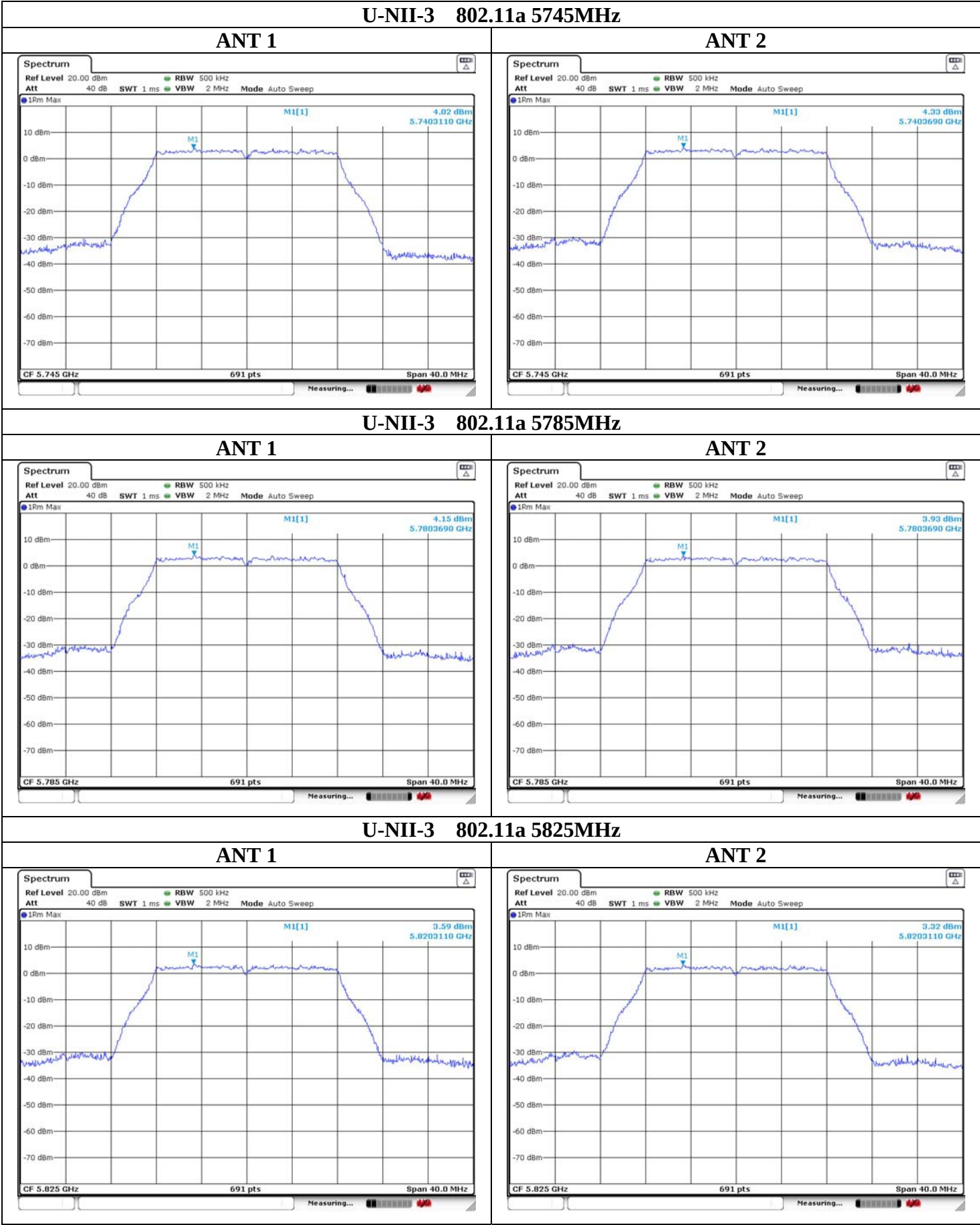


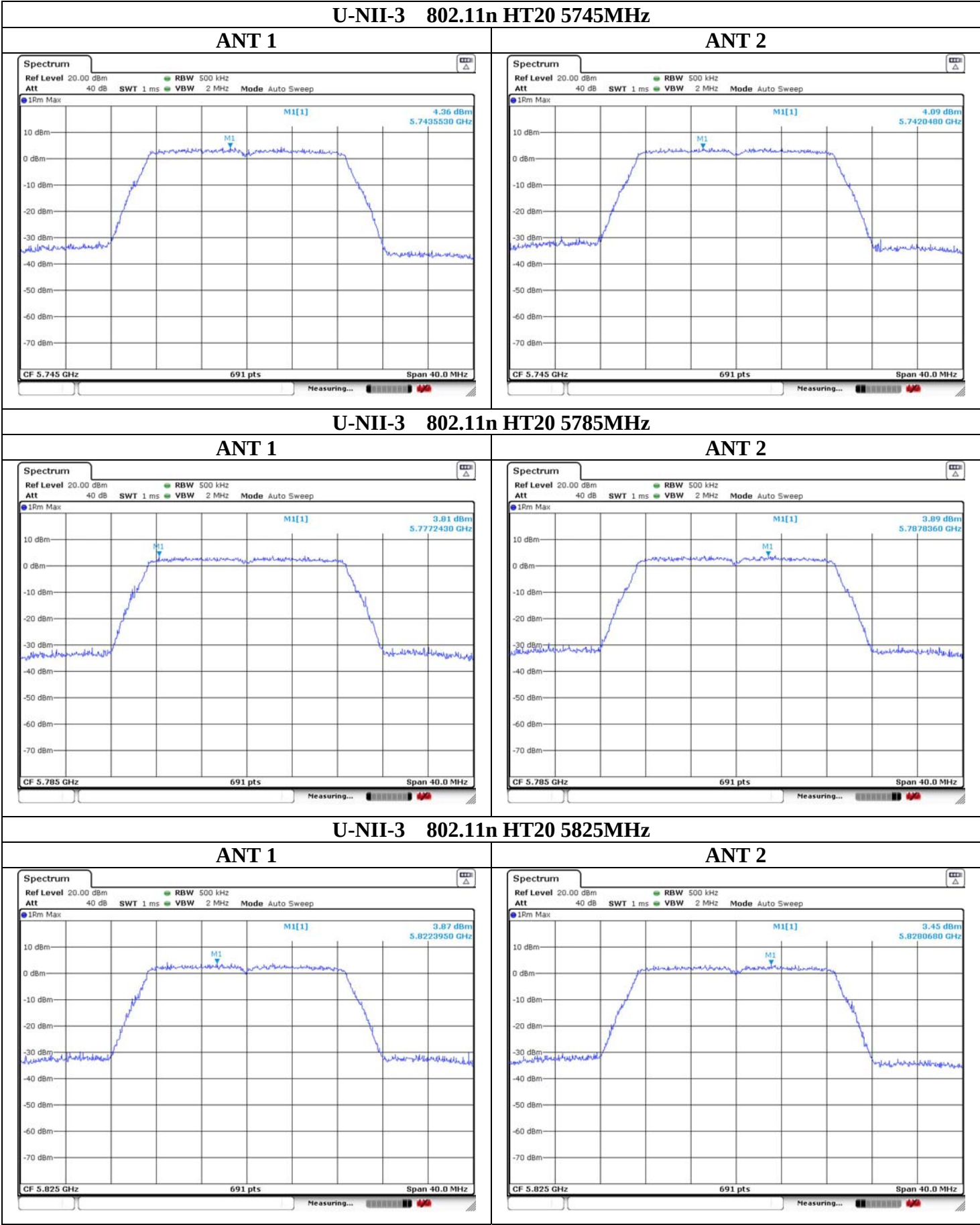


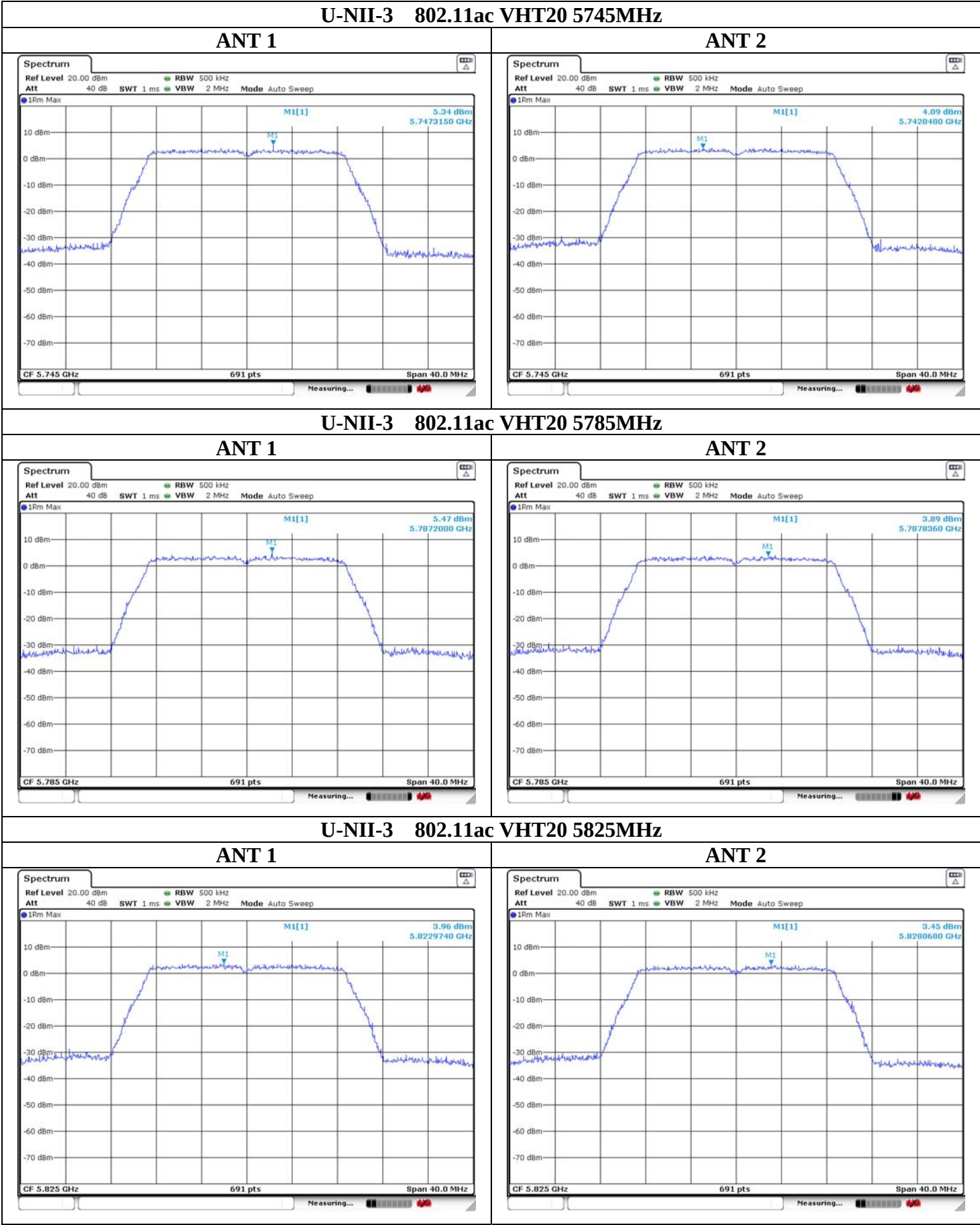


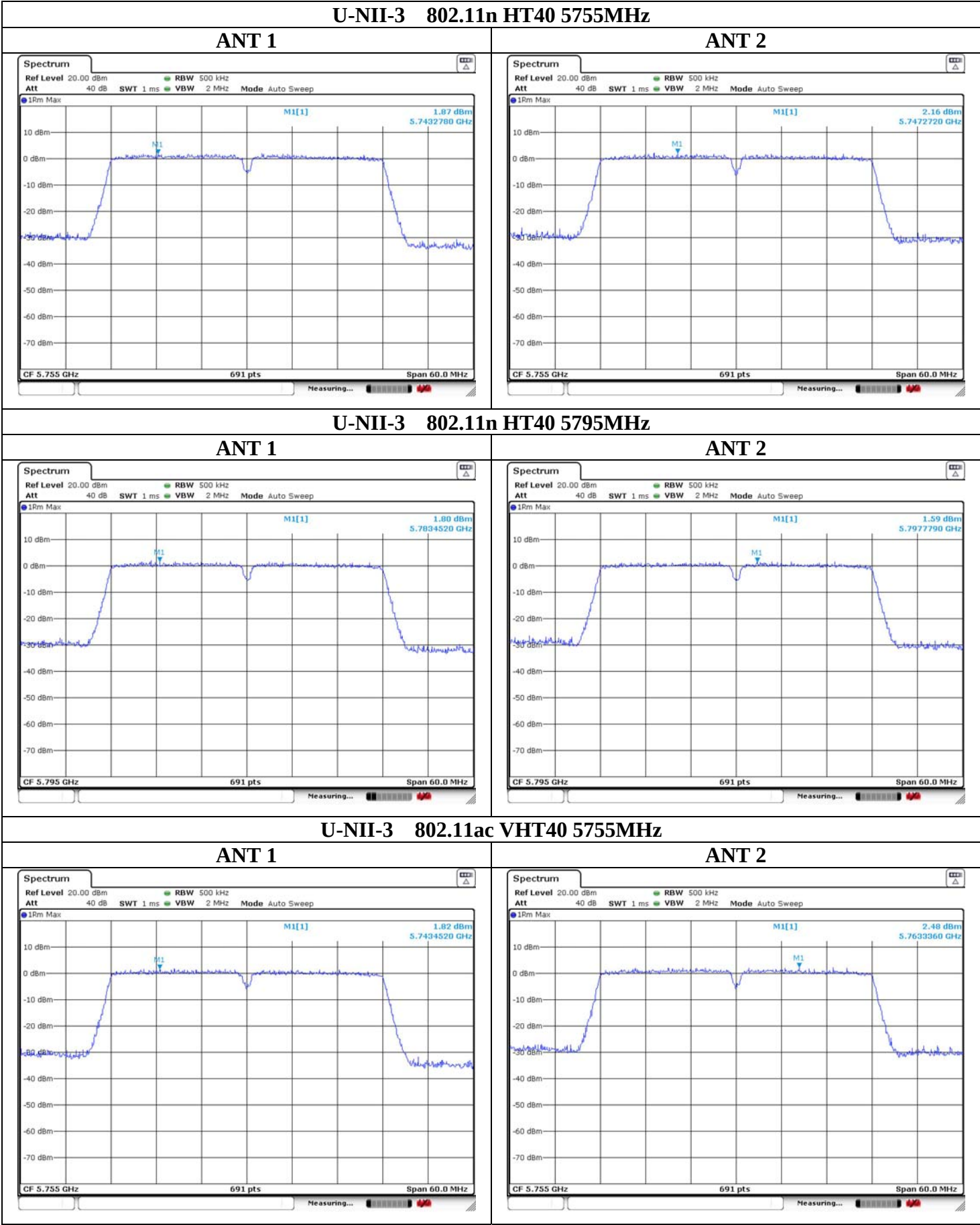


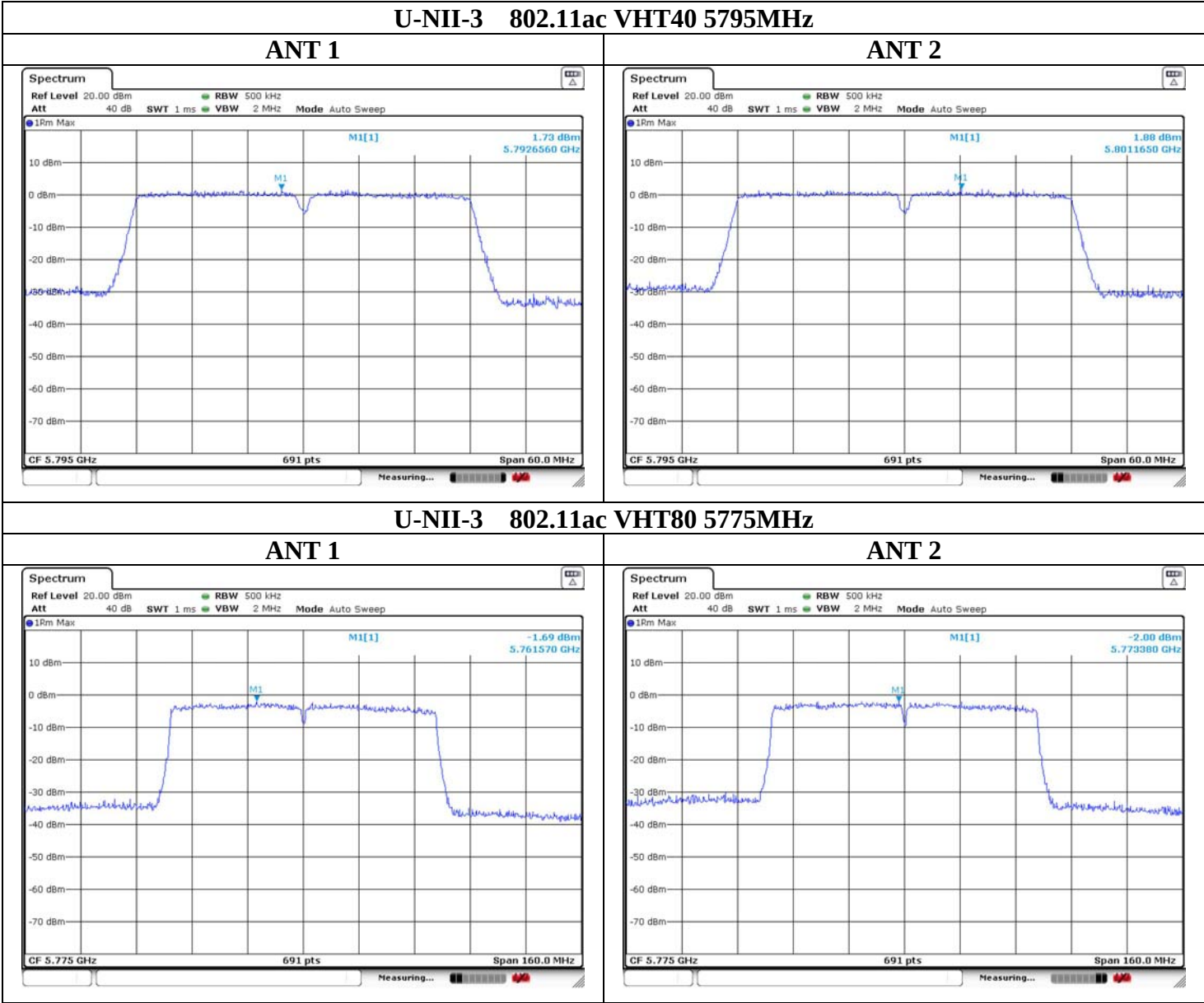












6. UNWANTED EMISSIONS AND BAND EDGE

6.1. Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

15.205 Restricted frequency band

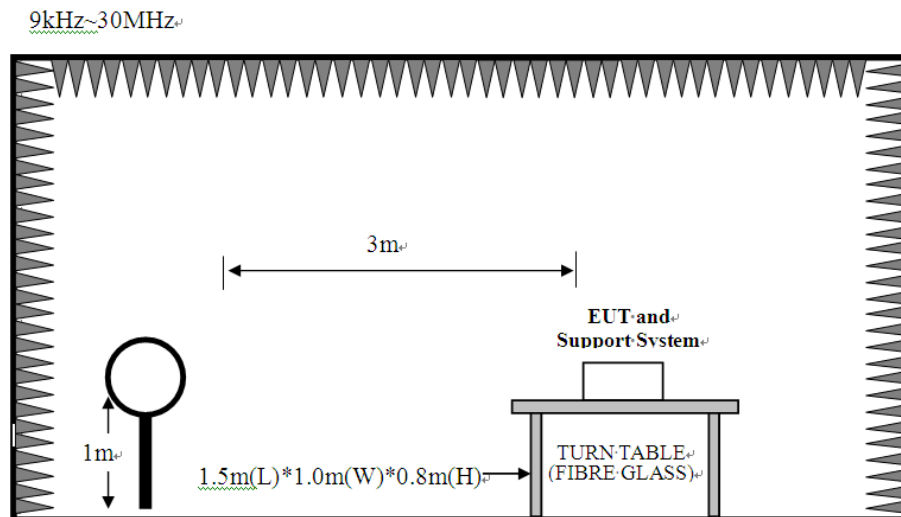
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

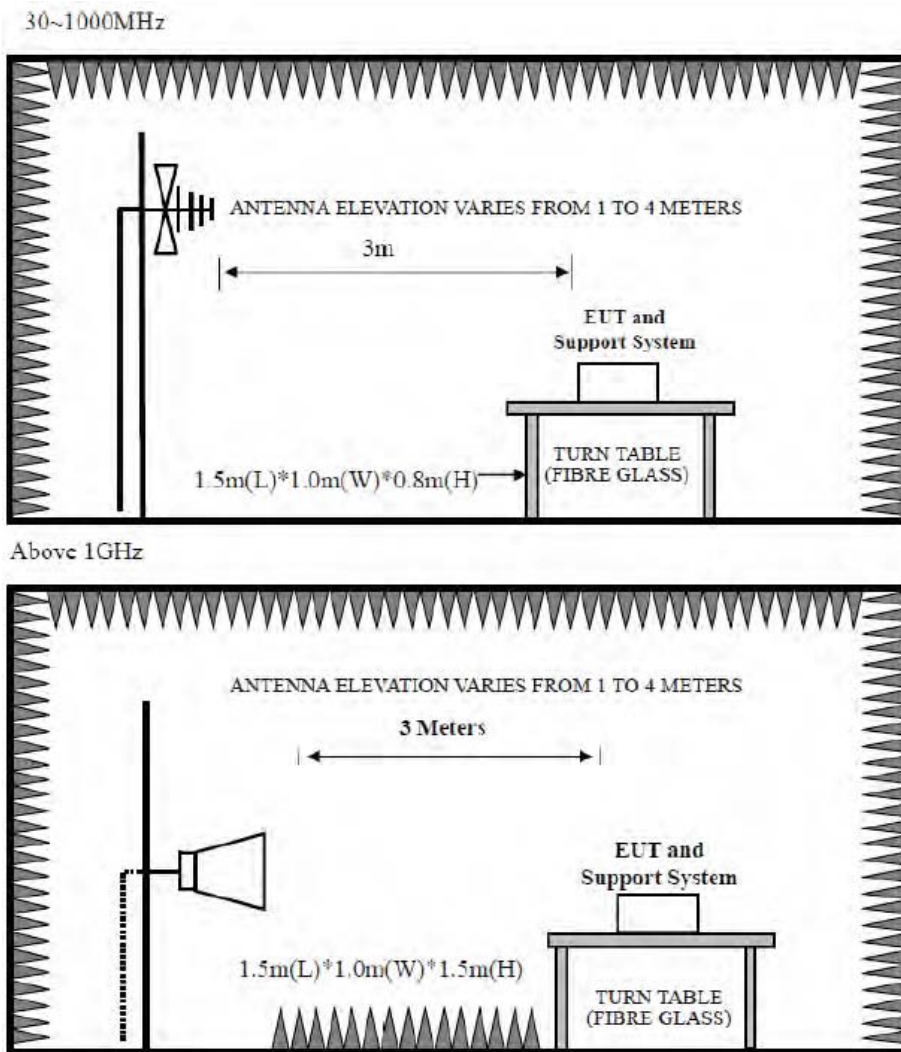
Note:

1. $\text{dB}\mu\text{V/m} = 20 \log(\mu\text{V/m})$
2. Above 1GHz the formula is used to convert the EIRP to field strength

$$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{m}]) + 104.77,$$
 where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.
 for example, 3m field strength($\text{dB}\mu\text{V/m}$)= $\text{EIRP} - 20 \log(3) + 104.77 = \text{EIRP} + 95.2$

6.2. Test Setup





6.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note : For 9KHz-90KHz&110KHz-150KHz,the detector is average,other frequency is CISPR QP detector.

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150KHz-490KHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle $\geq 98\%$, VBW=10Hz Duty cycle $< 98\%$, VBW $\geq 1/T$ Video bandwidth mode=RMS (power averaging)
Start frequency	1GHz	
Stop frequency	25GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note : T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.7 for the on-time time.

6.4. Test Procedure

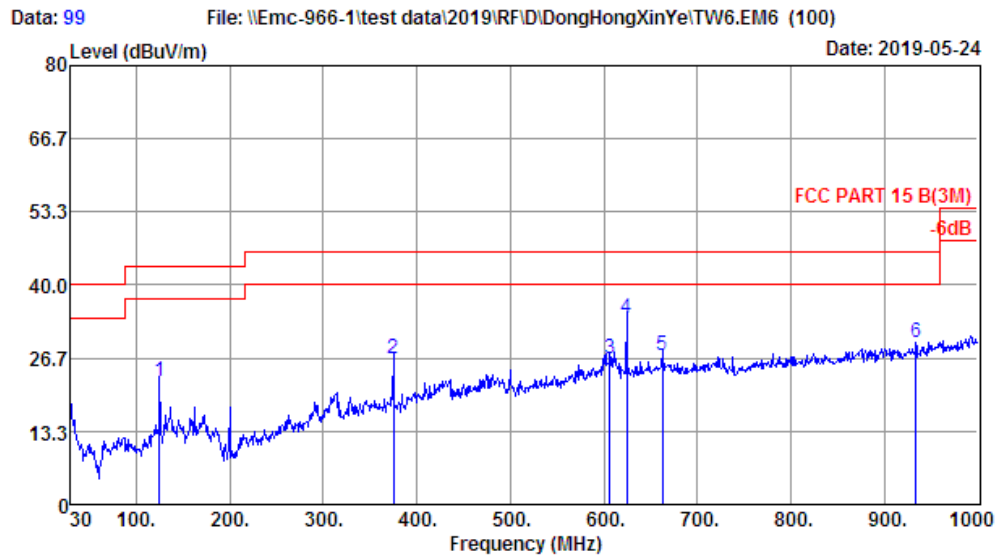
- EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- Spectrum analyzer setting parameters in accordance with section 6.3.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

6.5. Test Result

Radiated Emissions Below 1GHz

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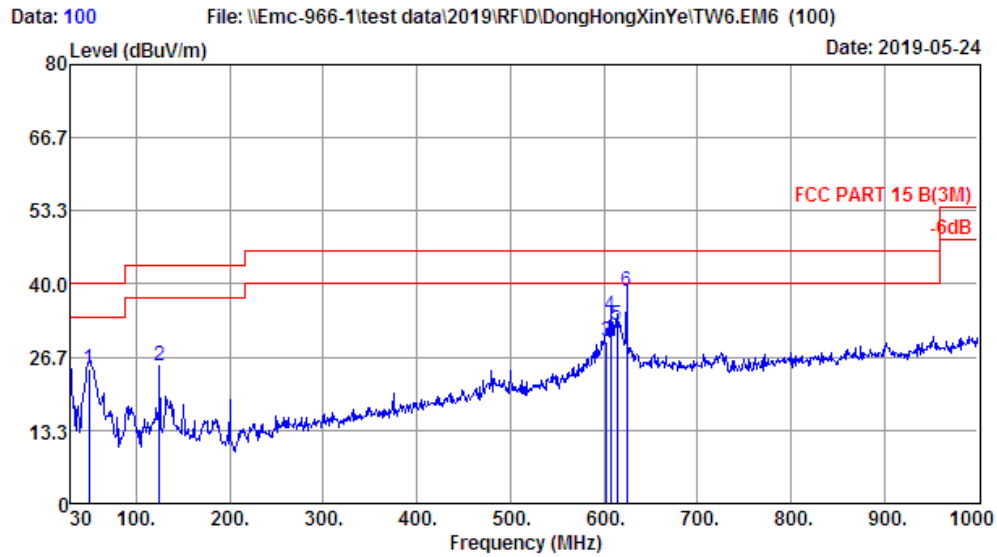
Site no. : 1# 966 Chamber Data no. : 99
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	125.06	11.60	0.95	9.75	22.30	43.50	21.20	QP
2	375.32	15.70	2.19	8.67	26.56	46.00	19.44	QP
3	606.18	20.22	3.00	3.31	26.53	46.00	19.47	QP
4	624.61	20.59	3.10	10.37	34.06	46.00	11.94	QP
5	662.44	21.33	3.23	2.55	27.11	46.00	18.89	QP
6	934.04	24.32	4.26	0.83	29.41	46.00	16.59	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 100
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
Engineer : Viking
EUT : WAVE+Lily
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : TW6
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	49.40	8.70	0.28	15.48	24.46	40.00	15.54	QP
2	125.06	11.60	0.95	12.54	25.09	43.50	18.41	QP
3	603.27	20.16	2.99	6.44	29.59	46.00	16.41	QP
4	607.15	20.24	3.01	10.86	34.11	46.00	11.89	QP
5	613.94	20.38	3.04	9.01	32.43	46.00	13.57	QP
6	624.61	20.59	3.10	14.85	38.54	46.00	7.46	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

Radiated Emissions Above 1G

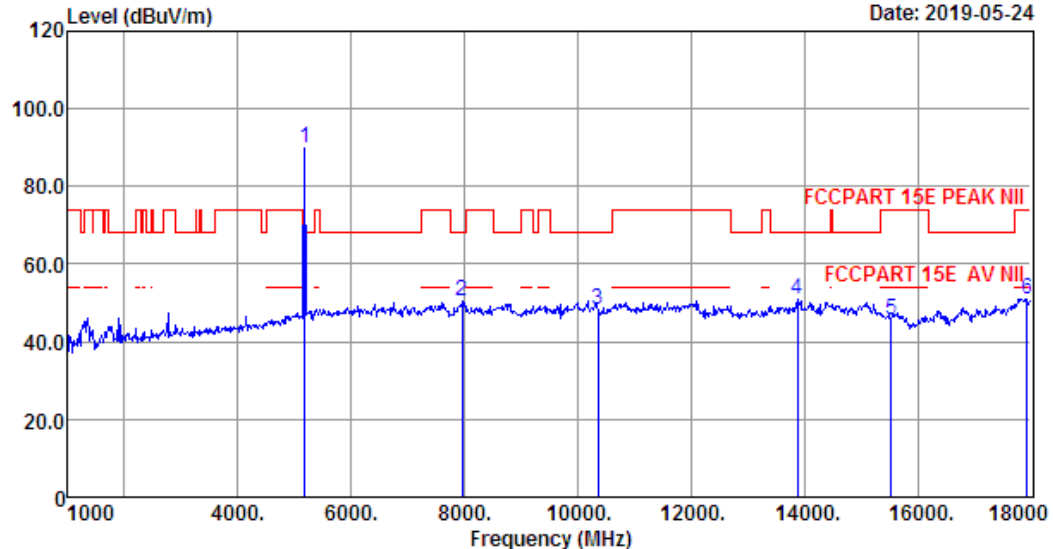
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Data: 31

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 31
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5180MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	32.20	6.42	33.33	84.75	90.04	68.20	-21.84	Peak
2	7953.00	36.49	8.09	32.17	37.97	50.38	68.20	17.82	Peak
3	10360.00	39.06	9.60	32.26	31.96	48.36	68.20	19.84	Peak
4	13886.00	40.90	11.78	30.91	29.10	50.87	68.20	17.33	Peak
5	15540.00	39.18	12.50	30.61	24.37	45.44	74.00	28.56	Peak
6	17932.00	47.64	13.57	30.31	20.24	51.14	74.00	22.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

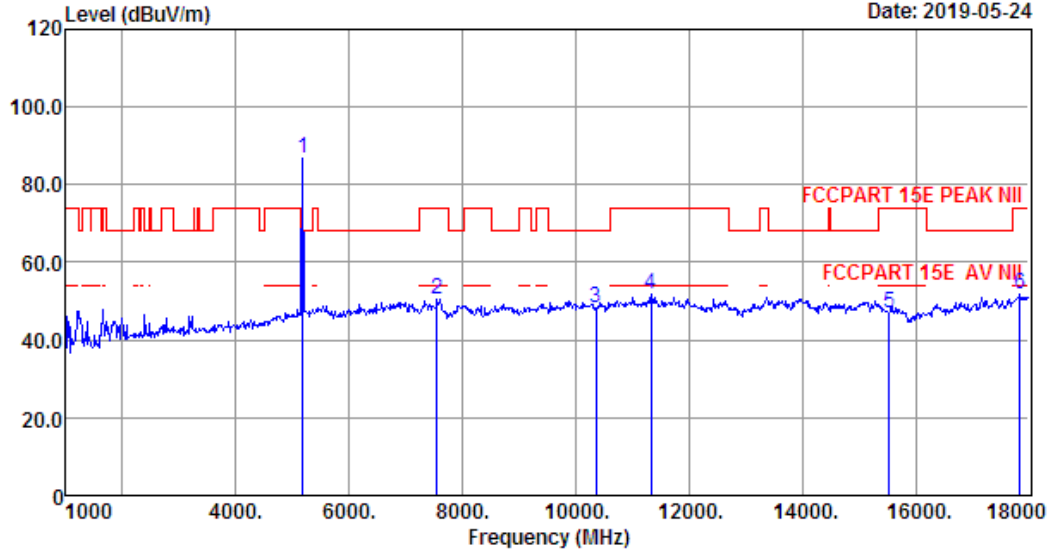
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Data: 32

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 32
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5180MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	32.20	6.42	33.33	81.49	86.78	68.20	-18.58	Peak
2	7545.00	36.41	7.69	30.72	36.94	50.32	74.00	23.68	Peak
3	10360.00	39.06	9.60	32.26	31.96	48.36	68.20	19.84	Peak
4	11336.00	39.76	9.97	30.65	32.60	51.68	74.00	22.32	Peak
5	15540.00	39.18	12.50	30.61	25.81	46.88	74.00	27.12	Peak
6	17847.00	47.06	13.48	30.23	21.35	51.66	74.00	22.34	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

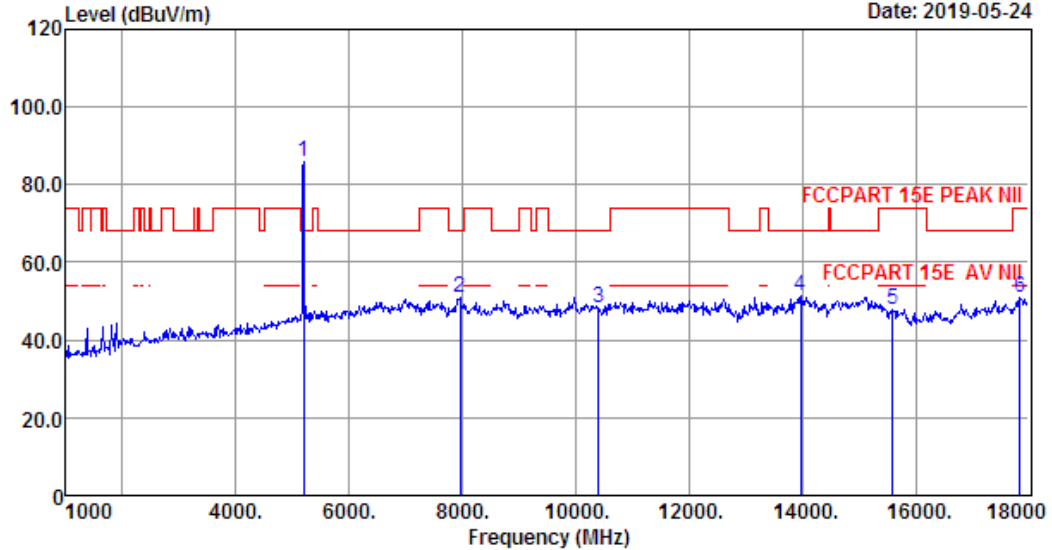
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Data: 33

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 33
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5200MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	32.24	6.47	33.14	80.39	85.96	68.20	-17.76	Peak
2	7953.00	36.49	8.09	32.17	38.71	51.12	68.20	17.08	Peak
3	10400.00	39.11	9.52	32.03	31.85	48.45	68.20	19.75	Peak
4	13971.00	41.04	11.89	31.10	29.60	51.43	68.20	16.77	Peak
5	15600.00	38.95	12.51	30.49	27.03	48.00	74.00	26.00	Peak
6	17847.00	47.06	13.48	30.23	20.74	51.05	74.00	22.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

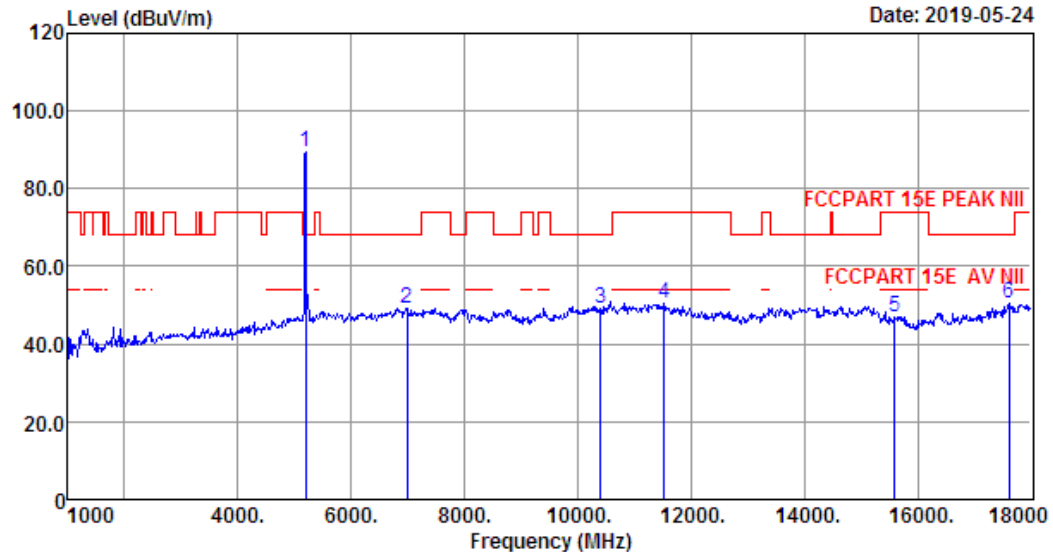
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Data: 34

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 34
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5200MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	32.24	6.47	33.14	83.90	89.47	68.20	-21.27	Peak
2	6984.00	35.76	7.38	31.15	37.31	49.30	68.20	18.90	Peak
3	10400.00	39.11	9.52	32.03	32.36	48.96	68.20	19.24	Peak
4	11523.00	39.63	10.32	30.56	31.27	50.66	74.00	23.34	Peak
5	15600.00	38.95	12.51	30.49	25.86	46.83	74.00	27.17	Peak
6	17609.00	45.45	13.62	30.20	21.59	50.46	68.20	17.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

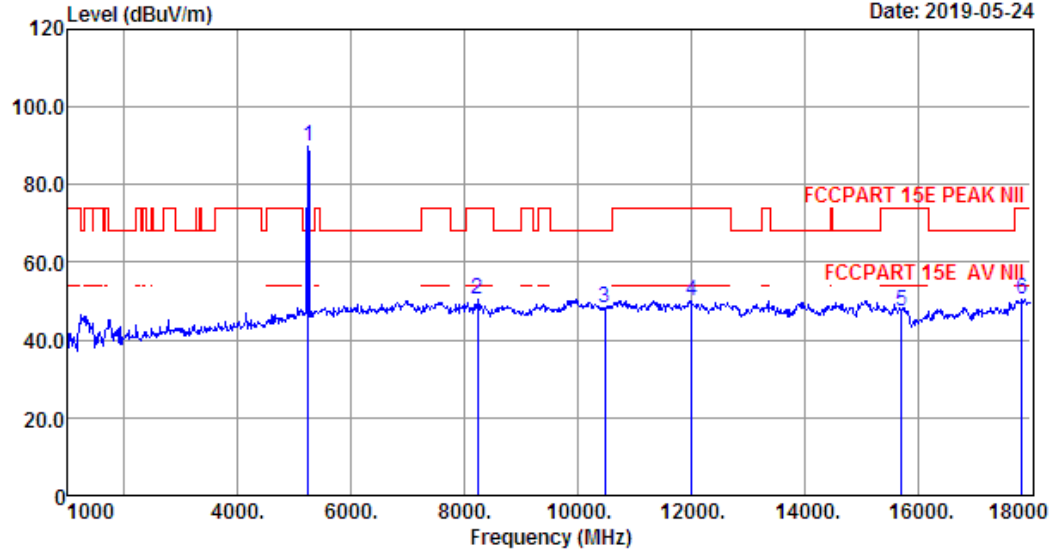
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Data: 35

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 35
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5240MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	32.31	6.45	33.39	84.53	89.90	68.20	-21.70	Peak
2	8225.00	36.50	8.20	32.58	38.41	50.53	74.00	23.47	Peak
3	10480.00	39.24	9.47	32.23	31.90	48.38	68.20	19.82	Peak
4	12016.00	39.30	10.76	30.28	30.42	50.20	74.00	23.80	Peak
5	15720.00	38.54	12.88	30.39	26.45	47.48	74.00	26.52	Peak
6	17847.00	47.06	13.48	30.23	20.37	50.68	74.00	23.32	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

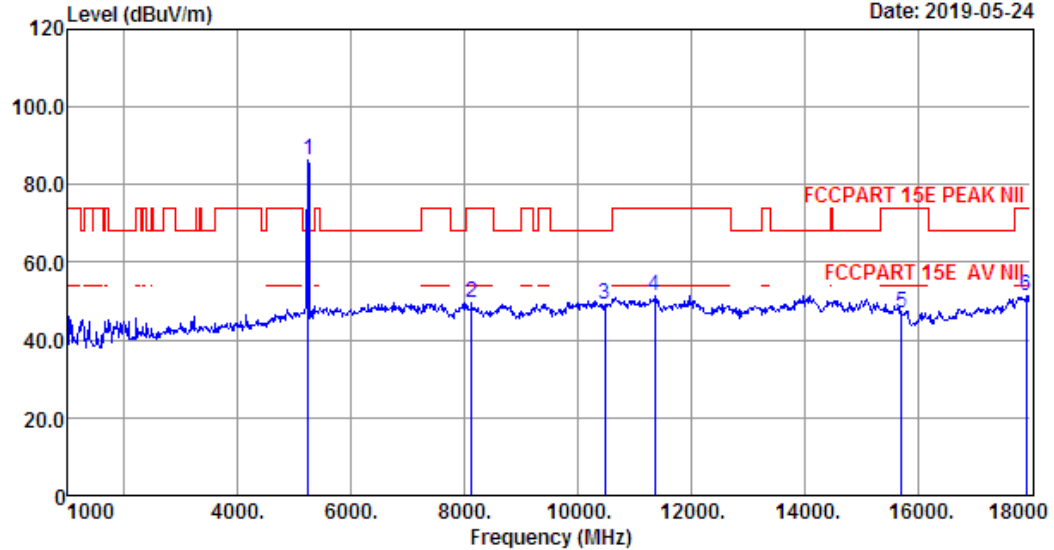
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Data: 36

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 36
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5240MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	32.31	6.45	33.39	80.95	86.32	68.20	-18.12	Peak
2	8123.00	36.50	8.15	32.69	37.65	49.61	74.00	24.39	Peak
3	10480.00	39.24	9.47	32.23	32.55	49.03	68.20	19.17	Peak
4	11353.00	39.75	9.95	30.65	32.24	51.29	74.00	22.71	Peak
5	15720.00	38.54	12.88	30.39	25.93	46.96	74.00	27.04	Peak
6	17915.00	47.52	13.60	30.31	20.76	51.57	74.00	22.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

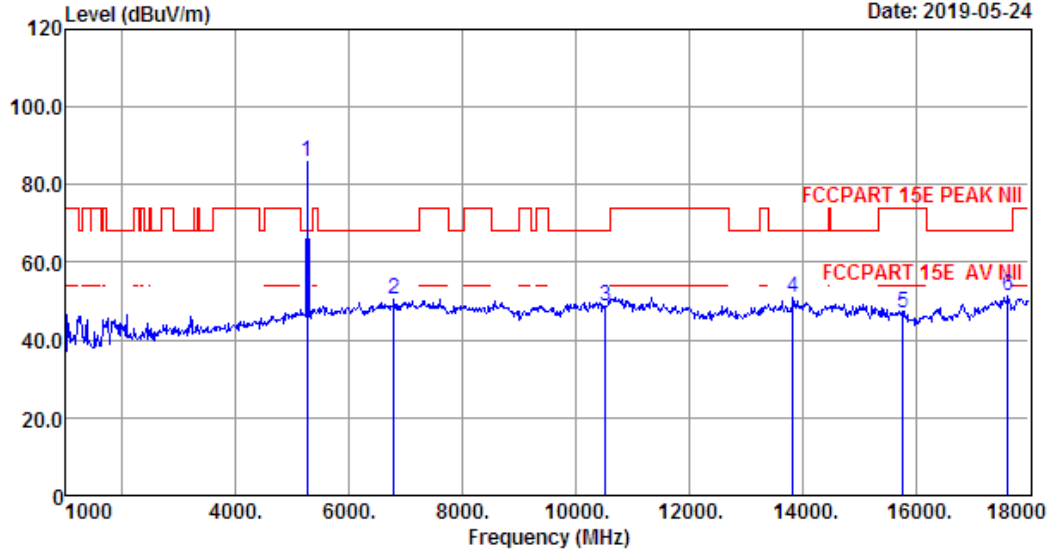
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Data: 37

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 37
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5260MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5260.00	32.39	6.43	33.51	80.80	86.11	68.20	-17.91	Peak
2	6797.00	35.30	7.12	32.26	40.34	50.50	68.20	17.70	Peak
3	10520.00	39.29	9.55	32.27	32.05	48.62	68.20	19.58	Peak
4	13835.00	40.81	11.76	30.83	29.15	50.89	68.20	17.31	Peak
5	15780.00	38.36	12.69	29.92	25.69	46.82	74.00	27.18	Peak
6	17626.00	45.56	13.60	30.20	22.44	51.40	68.20	16.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

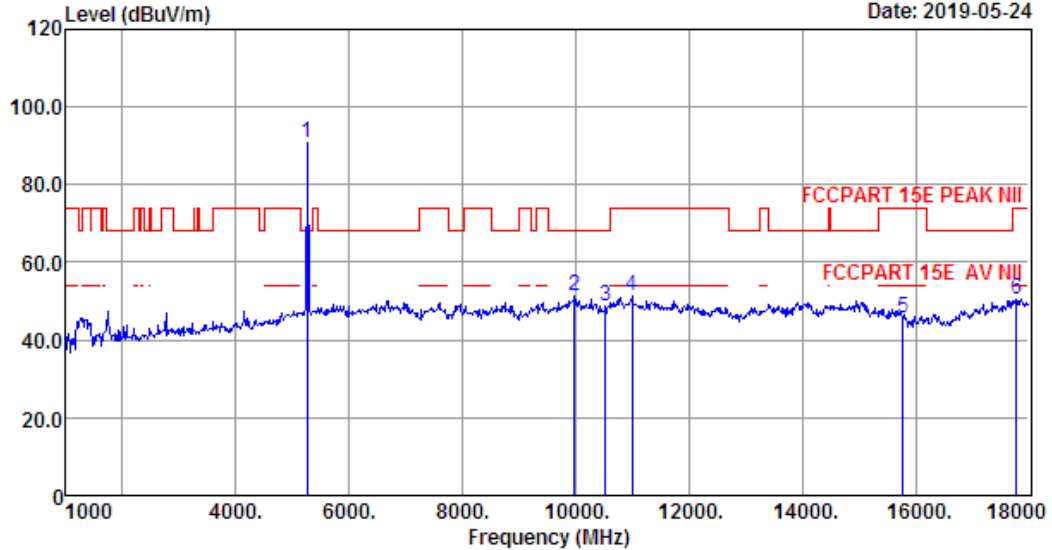
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Data: 38

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 38
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
Engineer : Viking
EUT : WAVE+Lily
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : TW6
Test Mode : IEEE 802.11a TX 5260MHz
ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5260.00	32.39	6.43	33.51	85.40	90.71	68.20	-22.51	Peak
2	9976.00	38.47	9.36	32.85	36.37	51.35	68.20	16.85	Peak
3	10520.00	39.29	9.55	32.27	32.07	48.64	68.20	19.56	Peak
4	10996.00	40.00	10.20	31.51	32.59	51.28	74.00	22.72	Peak
5	15780.00	38.36	12.69	29.92	24.64	45.77	74.00	28.23	Peak
6	17779.00	46.60	13.42	30.19	20.87	50.70	74.00	23.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

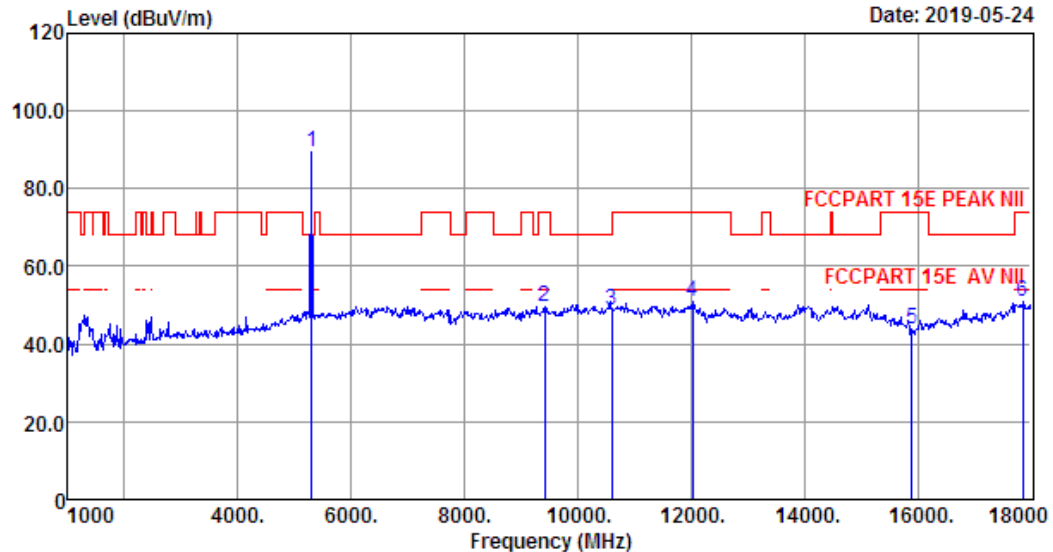
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Data: 39

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 39
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5300MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5300.00	32.46	6.41	33.76	84.38	89.49	68.20	-21.29	Peak
2	9415.00	37.33	9.17	32.50	35.71	49.71	74.00	24.29	Peak
3	10600.00	39.42	9.72	32.24	31.90	48.80	68.20	19.40	Peak
4	12033.00	39.30	10.72	30.35	31.33	51.00	74.00	23.00	Peak
5	15900.00	37.95	12.57	30.02	23.34	43.84	74.00	30.16	Peak
6	17864.00	47.18	13.53	30.26	20.31	50.76	74.00	23.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

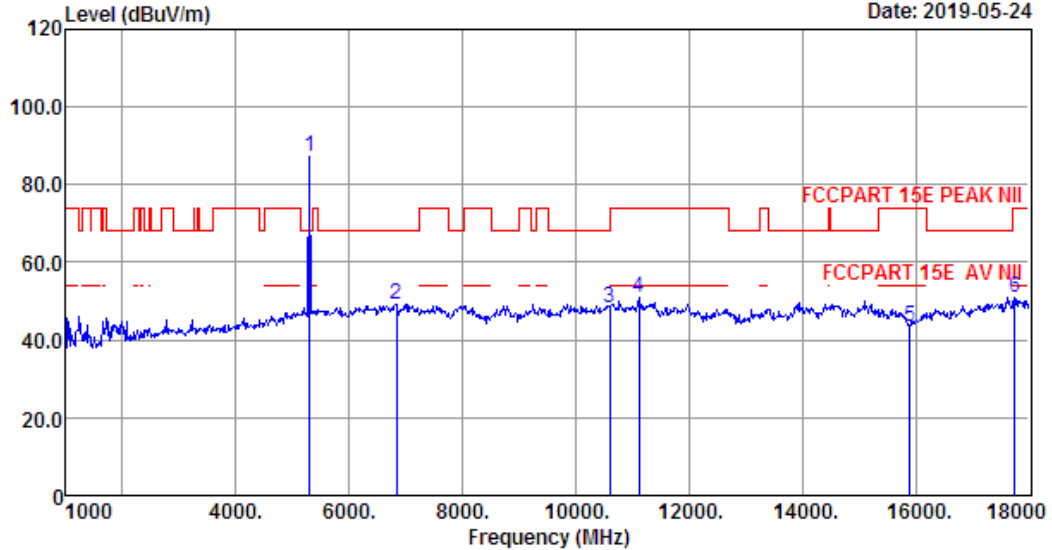
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Data: 40

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 40
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5300MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5300.00	32.46	6.41	33.76	81.91	87.02	68.20	-18.82	Peak
2	6831.00	35.39	7.14	32.26	39.03	49.30	68.20	18.90	Peak
3	10600.00	39.42	9.72	32.24	31.52	48.42	68.20	19.78	Peak
4	11115.00	39.92	9.94	31.01	31.95	50.80	74.00	23.20	Peak
5	15900.00	37.95	12.57	30.02	22.98	43.48	74.00	30.52	Peak
6	17745.00	46.37	13.46	30.20	21.29	50.92	74.00	23.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

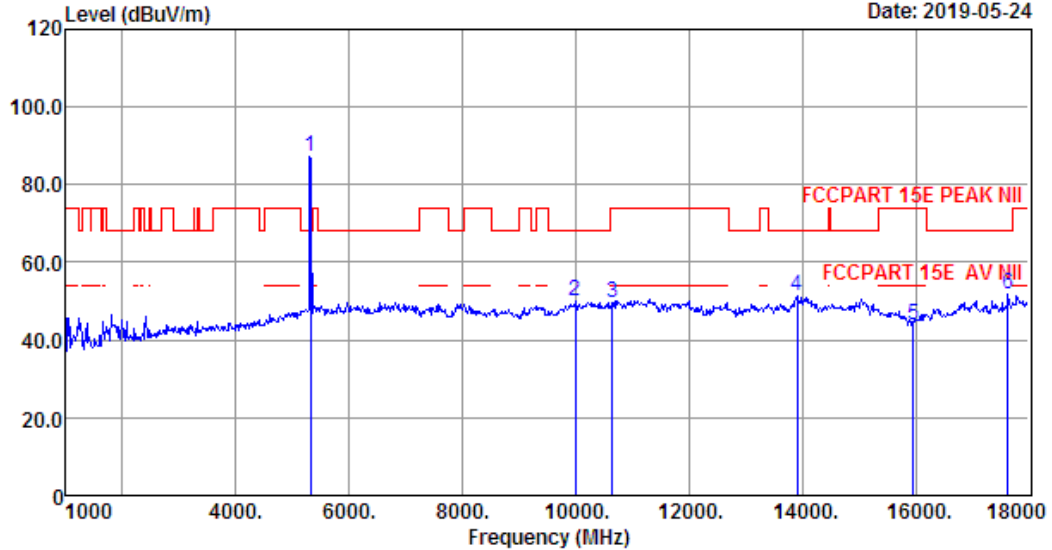
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Data: 41

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 41
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5320MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5320.00	32.50	6.39	33.74	82.25	87.40	68.20	-19.20	Peak
2	9993.00	38.50	9.36	32.78	34.82	49.90	68.20	18.30	Peak
3	10640.00	39.47	9.75	32.21	32.45	49.46	74.00	24.54	Peak
4	13903.00	40.93	11.79	30.94	29.38	51.16	68.20	17.04	Peak
5	15960.00	37.72	12.59	30.12	23.49	43.68	74.00	30.32	Peak
6	17626.00	45.56	13.60	30.20	22.87	51.83	68.20	16.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

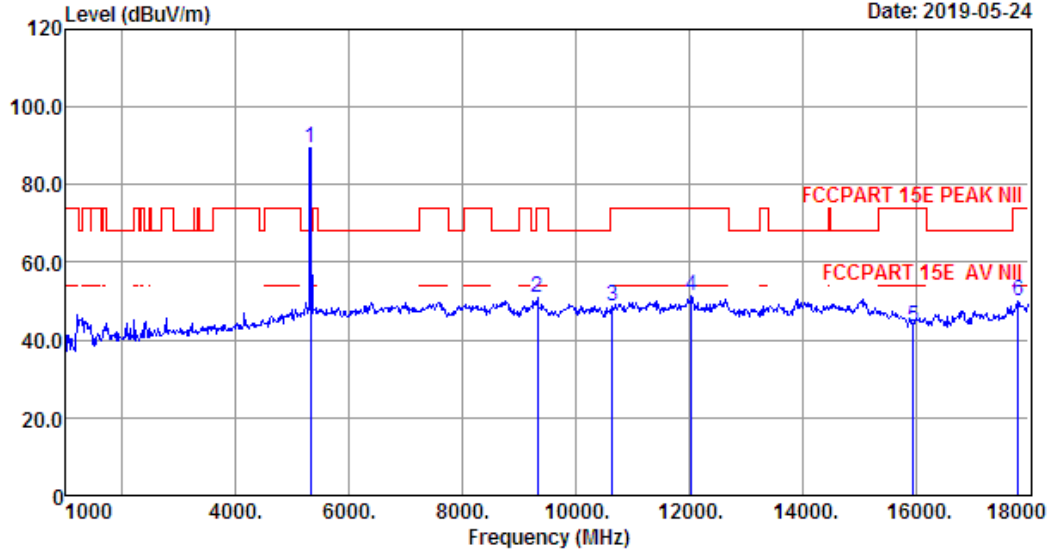
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Data: 42

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 42
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
Engineer : Viking
EUT : WAVE+Lily
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : TW6
Test Mode : IEEE 802.11a TX 5320MHz
ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5320.00	32.50	6.39	33.74	84.43	89.58	68.20	-21.38	Peak
2	9330.00	37.16	9.13	32.05	36.67	50.91	74.00	23.09	Peak
3	10640.00	39.47	9.75	32.21	31.61	48.62	74.00	25.38	Peak
4	12050.00	39.31	10.68	30.43	31.77	51.33	74.00	22.67	Peak
5	15960.00	37.72	12.59	30.12	23.25	43.44	74.00	30.56	Peak
6	17813.00	46.83	13.38	30.18	19.90	49.93	74.00	24.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

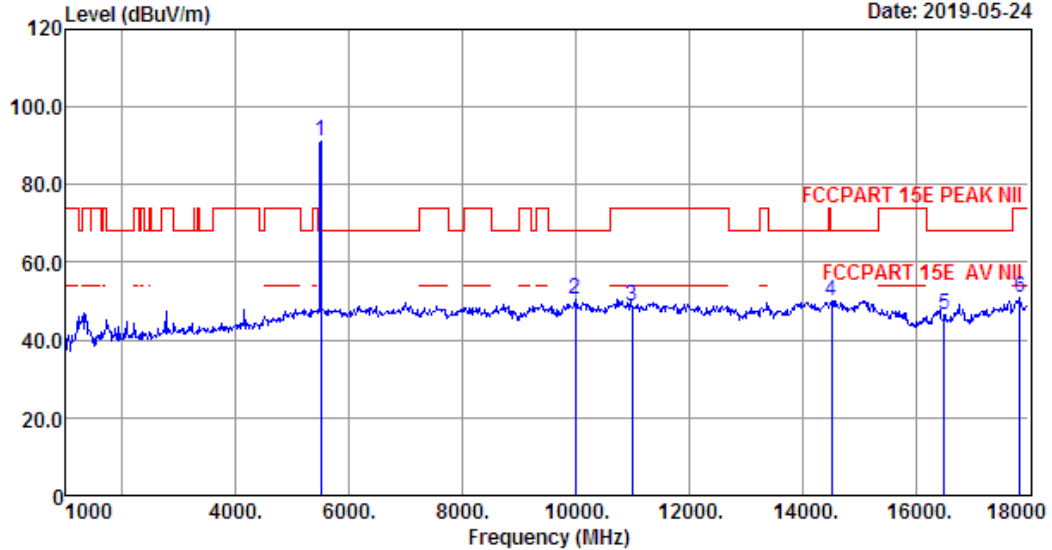
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Data: 43

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 43
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
Engineer : Viking
EUT : WAVE+Lily
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : TW6
Test Mode : IEEE 802.11a TX 5500MHz
ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5500.00	32.90	6.58	33.92	85.49	91.05	68.20	-22.85	Peak
2	9993.00	38.50	9.36	32.78	35.20	50.28	68.20	17.92	Peak
3	11000.00	40.00	10.20	31.51	30.15	48.84	74.00	25.16	Peak
4	14515.00	41.05	11.94	31.24	28.34	50.09	68.20	18.11	Peak
5	16500.00	39.48	13.10	30.72	24.49	46.35	68.20	21.85	Peak
6	17847.00	47.06	13.48	30.23	20.76	51.07	74.00	22.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

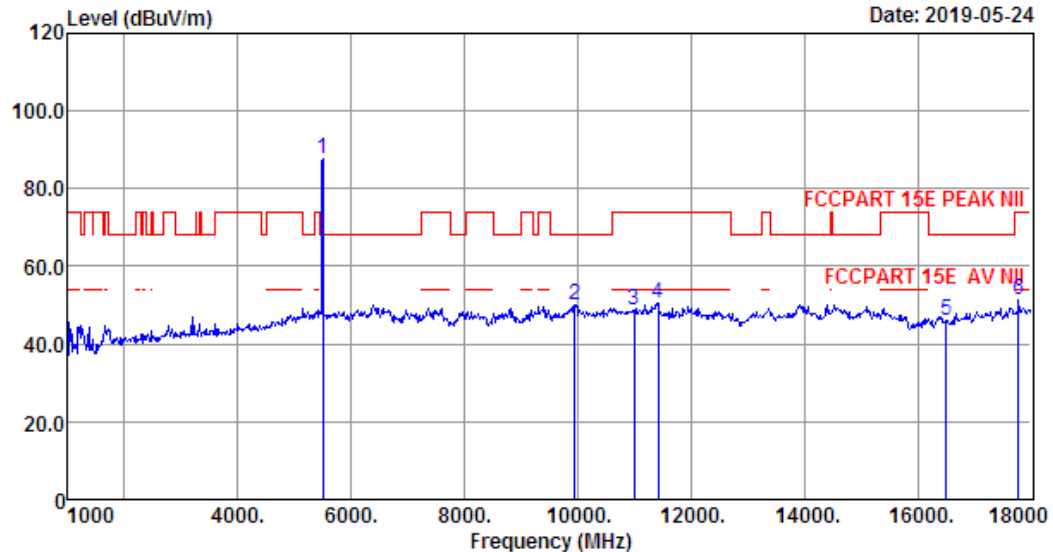
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Data: 44

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 44
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5500MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5500.00	32.90	6.58	33.92	82.10	87.66	68.20	-19.46	Peak
2	9942.00	38.40	9.35	32.92	35.03	49.86	68.20	18.34	Peak
3	11000.00	40.00	10.20	31.51	29.89	48.58	74.00	25.42	Peak
4	11421.00	39.70	9.97	30.64	31.48	50.51	74.00	23.49	Peak
5	16500.00	39.48	13.10	30.72	24.08	45.94	68.20	22.26	Peak
6	17779.00	46.60	13.42	30.19	21.35	51.18	74.00	22.82	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

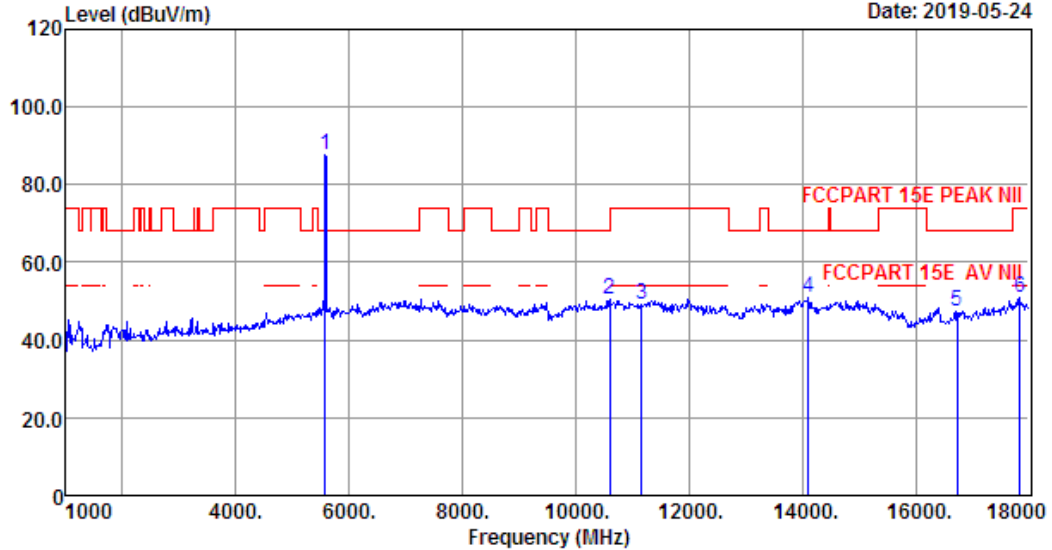
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Data: 45

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 45
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5580MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5580.00	32.89	6.44	34.10	82.36	87.59	68.20	-19.39	Peak
2	10605.00	39.42	9.72	32.24	33.55	50.45	74.00	23.55	Peak
3	11160.00	39.88	9.99	30.86	29.95	48.96	74.00	25.04	Peak
4	14107.00	41.09	12.27	31.05	28.53	50.84	68.20	17.36	Peak
5	16740.00	40.36	12.93	29.86	23.81	47.24	68.20	20.96	Peak
6	17847.00	47.06	13.48	30.23	20.50	50.81	74.00	23.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

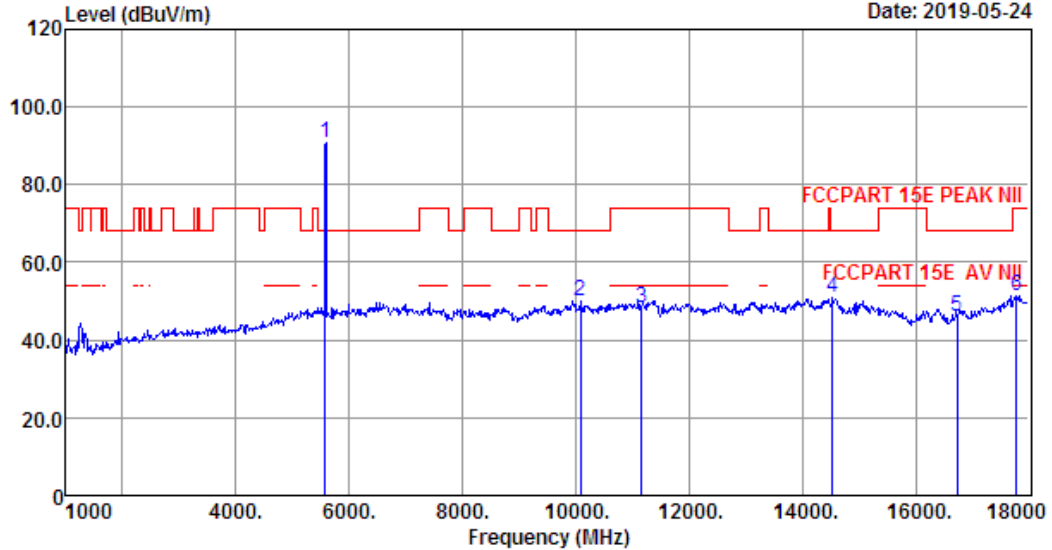
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Data: 46

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 46
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5580MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5580.00	32.89	6.44	34.10	85.43	90.66	68.20	-22.46	Peak
2	10078.00	38.63	9.22	32.77	34.83	49.91	68.20	18.29	Peak
3	11160.00	39.88	9.99	30.86	29.28	48.29	74.00	25.71	Peak
4	14532.00	41.05	12.03	31.29	29.00	50.79	68.20	17.41	Peak
5	16740.00	40.36	12.93	29.86	22.74	46.17	68.20	22.03	Peak
6	17779.00	46.60	13.42	30.19	21.72	51.55	74.00	22.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

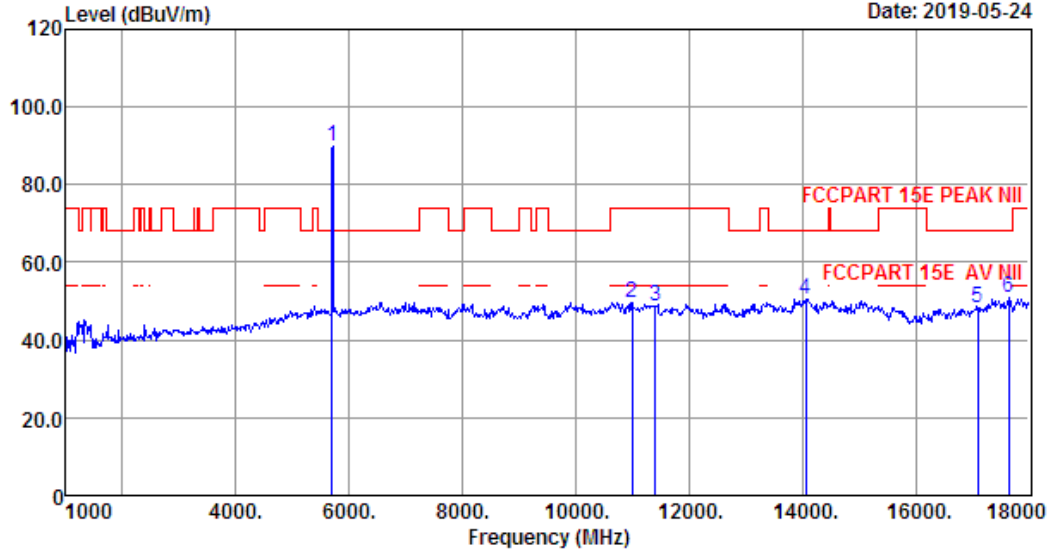
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Data: 47

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 47
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5700MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5700.00	32.86	6.43	33.75	84.54	90.08	68.20	-21.88	Peak
2	10996.00	40.00	10.20	31.51	31.03	49.72	74.00	24.28	Peak
3	11400.00	39.72	9.90	30.64	29.51	48.49	74.00	25.51	Peak
4	14056.00	41.09	12.17	31.08	28.19	50.37	68.20	17.83	Peak
5	17100.00	41.99	13.31	30.07	23.00	48.23	68.20	19.97	Peak
6	17643.00	45.68	13.57	30.20	21.65	50.70	68.20	17.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

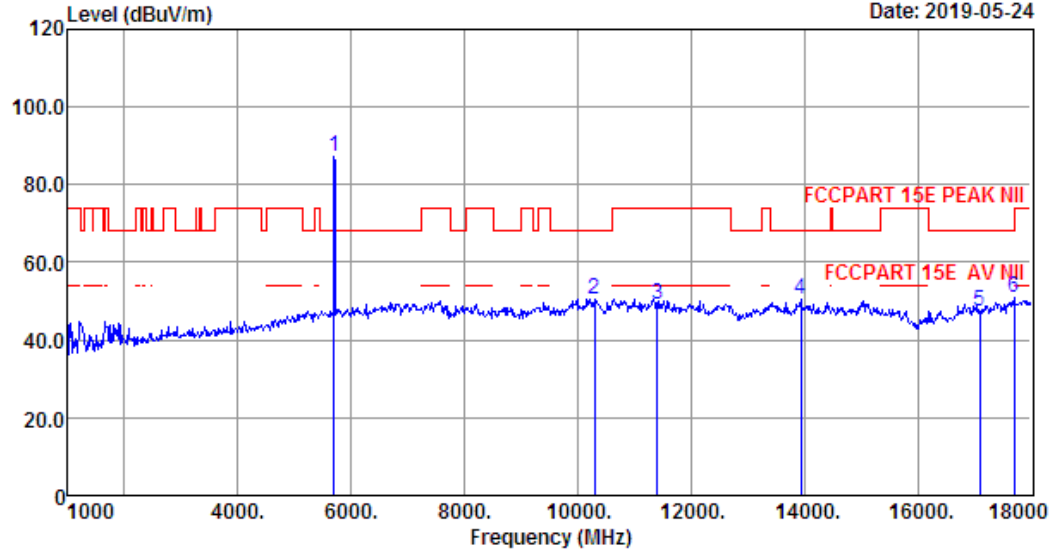
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Data: 48

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 48
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5700MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5700.00	32.86	6.43	33.75	81.71	87.25	68.20	-19.05	Peak
2	10299.00	38.96	9.69	32.49	34.42	50.58	68.20	17.62	Peak
3	11400.00	39.72	9.90	30.64	30.33	49.31	74.00	24.69	Peak
4	13937.00	40.98	11.84	31.02	28.62	50.42	68.20	17.78	Peak
5	17100.00	41.99	13.31	30.07	22.19	47.42	68.20	20.78	Peak
6	17711.00	46.14	13.50	30.21	21.68	51.11	74.00	22.89	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

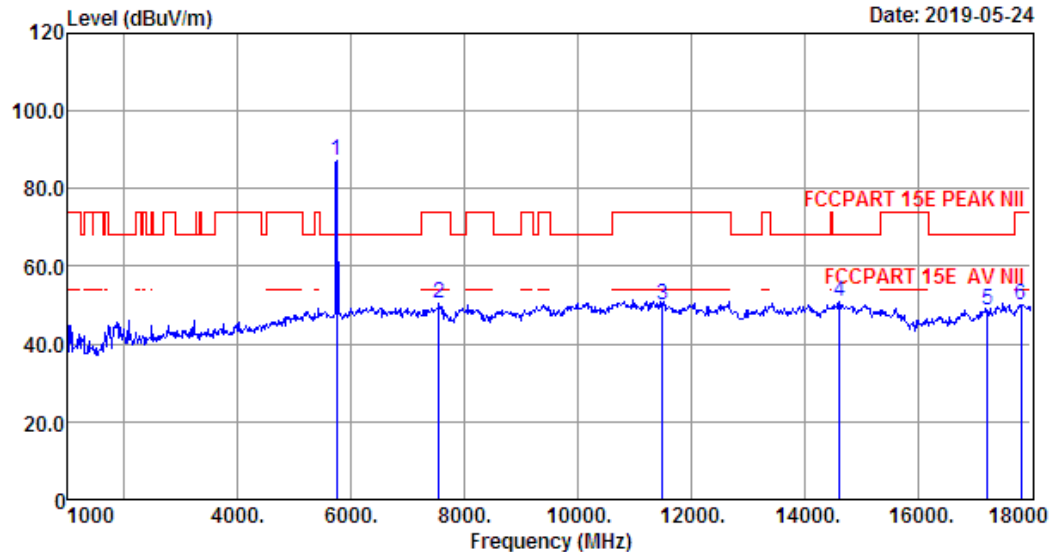
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Data: 49

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 49
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5745MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	32.85	6.41	33.60	81.44	87.10	68.20	-18.90	Peak
2	7545.00	36.41	7.69	30.72	37.05	50.43	74.00	23.57	Peak
3	11490.00	39.66	10.27	30.61	30.85	50.17	74.00	23.83	Peak
4	14617.00	41.04	12.31	31.45	29.01	50.91	68.20	17.29	Peak
5	17235.00	42.91	13.32	29.78	22.20	48.65	68.20	19.55	Peak
6	17830.00	46.95	13.43	30.21	19.87	50.04	74.00	23.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

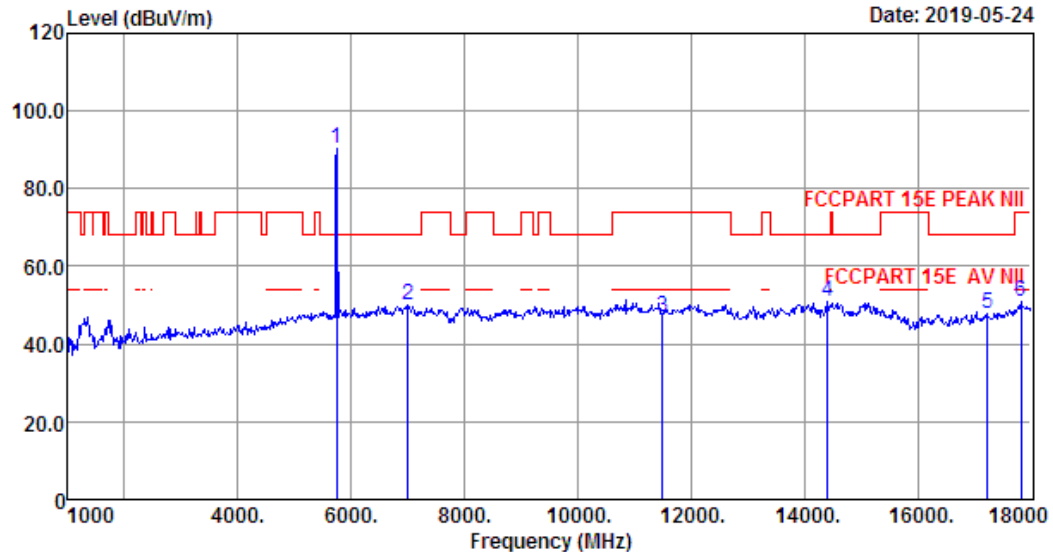
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Data: 50

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 50
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5745MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	32.85	6.41	33.60	84.84	90.50	68.20	-22.30	Peak
2	7001.00	35.80	7.38	31.15	38.18	50.21	68.20	17.99	Peak
3	11490.00	39.66	10.27	30.61	27.75	47.07	74.00	26.93	Peak
4	14413.00	41.06	12.17	30.74	28.52	51.01	68.20	17.19	Peak
5	17235.00	42.91	13.32	29.78	21.34	47.79	68.20	20.41	Peak
6	17830.00	46.95	13.43	30.21	20.60	50.77	74.00	23.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

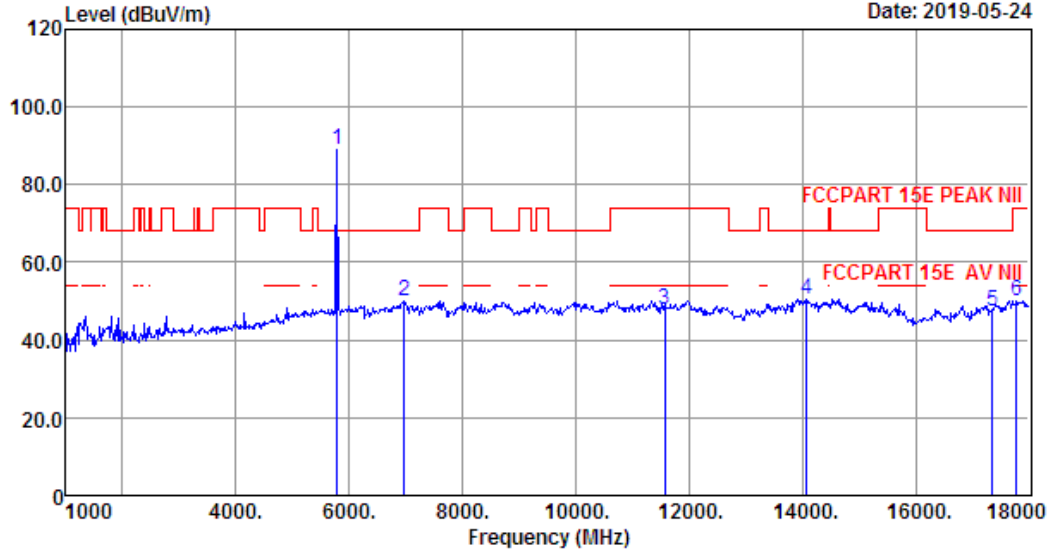
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Data: 51

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 51
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5785MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	32.84	6.40	33.49	83.28	89.03	68.20	-20.83	Peak
2	6967.00	35.72	7.34	31.37	38.38	50.07	68.20	18.13	Peak
3	11570.00	39.60	10.28	30.43	28.38	47.83	74.00	26.17	Peak
4	14073.00	41.09	12.24	31.06	28.11	50.38	68.20	17.82	Peak
5	17355.00	43.72	13.34	29.78	20.28	47.56	68.20	20.64	Peak
6	17779.00	46.60	13.42	30.19	20.20	50.03	74.00	23.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

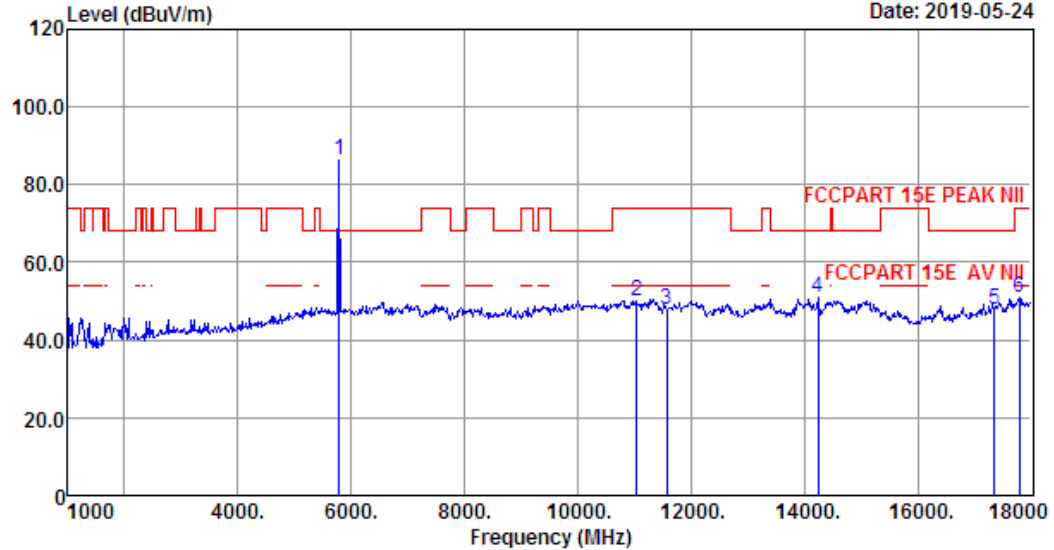
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Data: 52

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 52
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5785MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	32.84	6.40	33.49	80.56	86.31	68.20	-18.11	Peak
2	11047.00	39.96	10.06	31.30	31.43	50.15	74.00	23.85	Peak
3	11570.00	39.60	10.28	30.43	28.55	48.00	74.00	26.00	Peak
4	14243.00	41.08	12.06	31.25	29.00	50.89	68.20	17.31	Peak
5	17355.00	43.72	13.34	29.78	20.64	47.92	68.20	20.28	Peak
6	17796.00	46.72	13.40	30.18	21.02	50.96	74.00	23.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

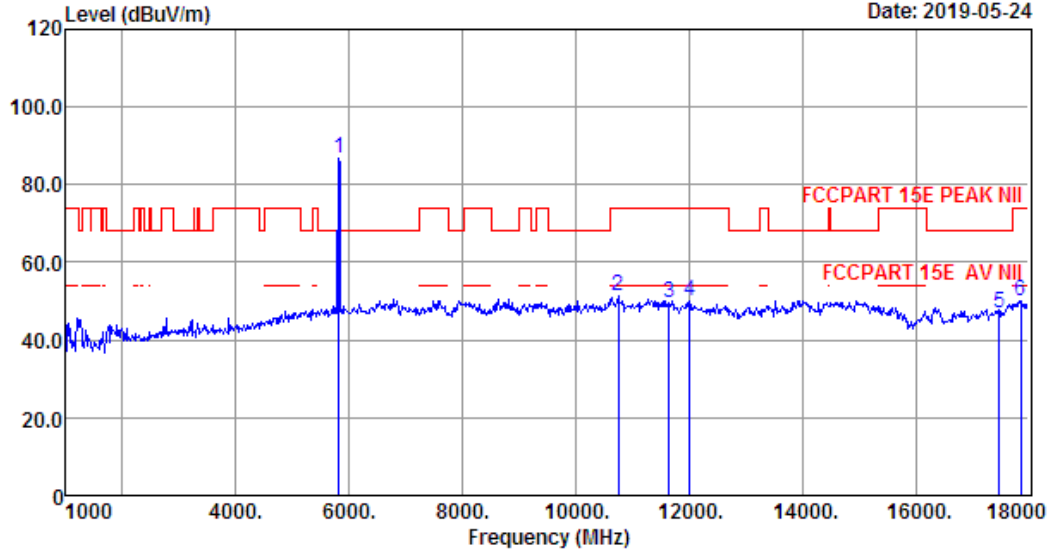
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Data: 53

File: \\Emc-966-1\test data\2019\RFID\ DongHongXinYe\TW6.EM6 (100)

Date: 2019-05-24



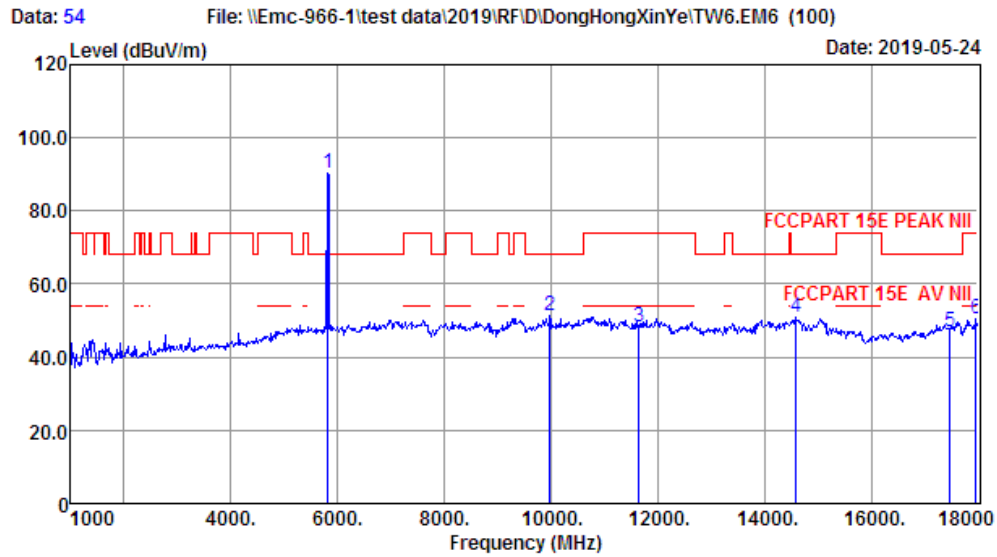
Site no. : 1# 966 Chamber Data no. : 53
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5825MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	32.83	6.47	33.50	80.94	86.74	68.20	-18.54	Peak
2	10758.00	39.64	9.84	31.95	34.02	51.55	74.00	22.45	Peak
3	11650.00	39.55	10.28	30.20	29.96	49.59	74.00	24.41	Peak
4	12016.00	39.30	10.76	30.28	30.45	50.23	74.00	23.77	Peak
5	17475.00	44.53	13.50	30.28	19.09	46.84	68.20	21.36	Peak
6	17864.00	47.18	13.53	30.26	19.51	49.96	74.00	24.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 54
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5825MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	32.83	6.47	33.50	84.75	90.55	68.20	-22.35	Peak
2	9976.00	38.47	9.36	32.85	36.56	51.54	68.20	16.66	Peak
3	11650.00	39.55	10.28	30.20	28.83	48.46	74.00	25.54	Peak
4	14600.00	41.04	12.36	31.49	29.00	50.91	68.20	17.29	Peak
5	17475.00	44.53	13.50	30.28	19.34	47.09	68.20	21.11	Peak
6	17966.00	47.87	13.51	30.31	19.38	50.45	74.00	23.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Radiated Band Edge

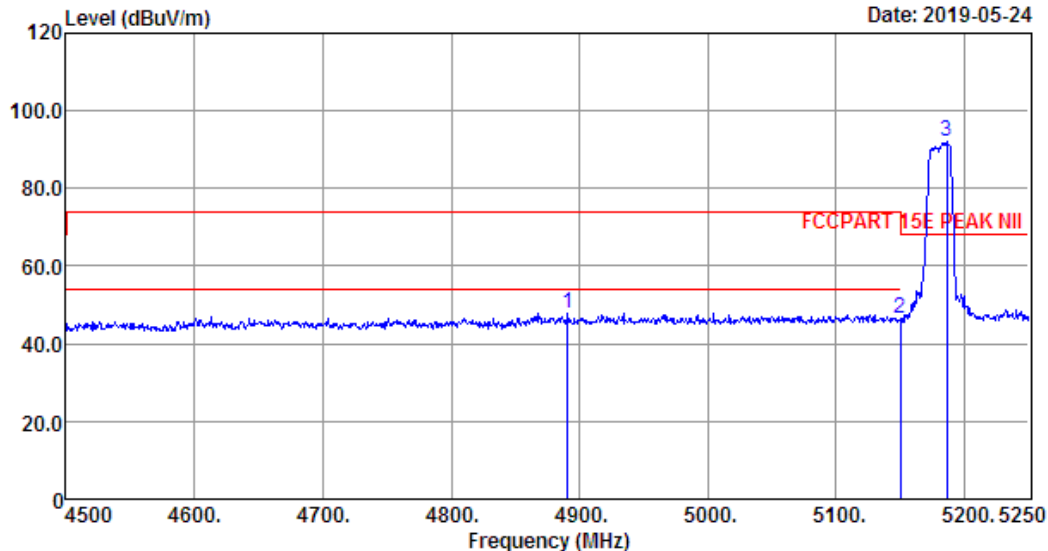
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Data: 55

File: \\Emc-966-1\test data\2019\RFID\ DongHongXinYe\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 55
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5180MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4890.75	31.45	6.12	32.93	43.37	48.01	74.00	25.99	Peak
2	5150.00	32.13	6.40	33.42	41.17	46.28	68.20	21.92	Peak
3	5186.25	32.20	6.45	33.23	86.55	91.97	68.20	-23.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

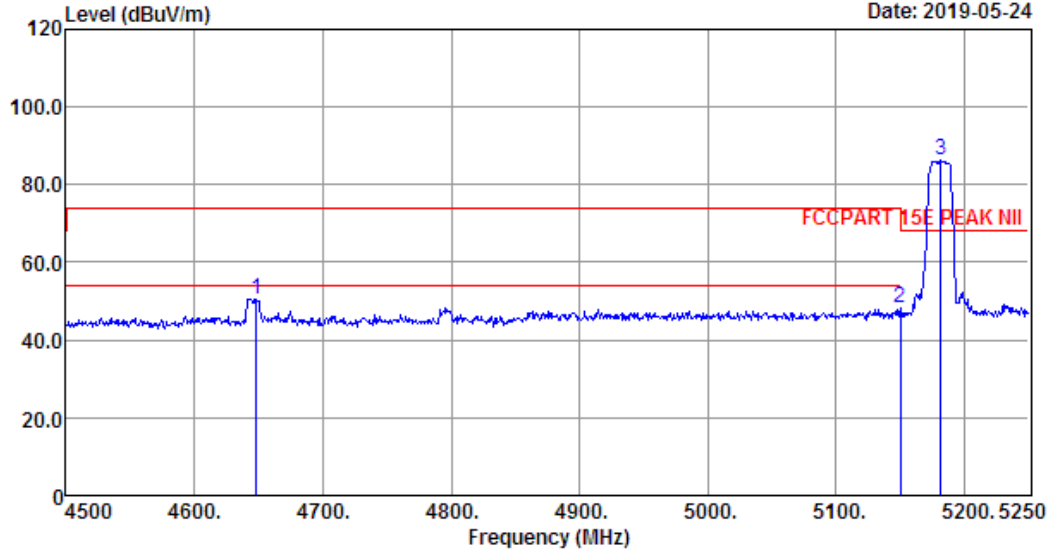
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Data: 56

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 56
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5180MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4648.50	30.63	5.93	33.30	47.38	50.64	74.00	23.36	Peak
2	5150.00	32.13	6.40	33.42	42.96	48.07	68.20	20.13	Peak
3	5181.75	32.20	6.45	33.23	80.73	86.15	68.20	-17.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

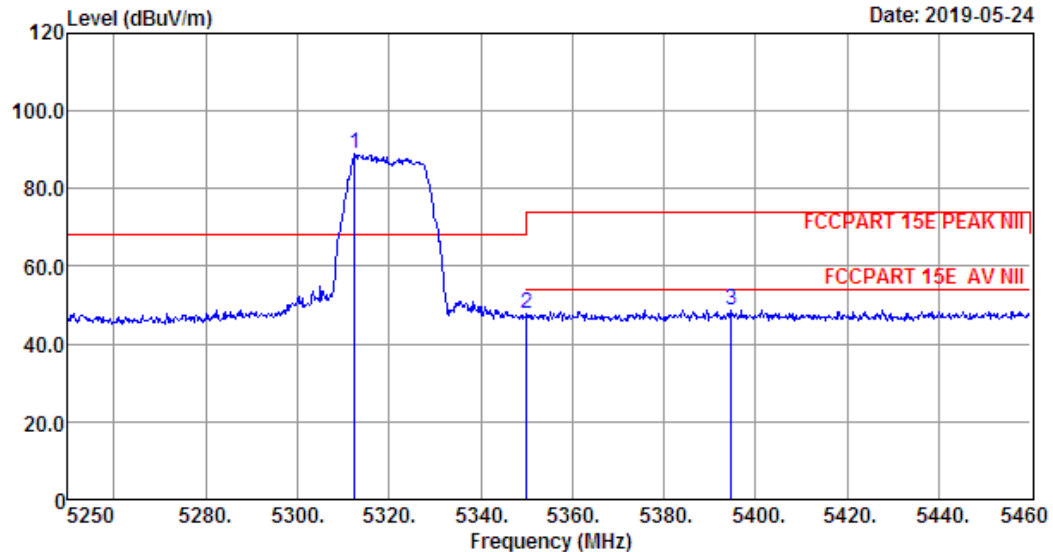
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Data: 57

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 57
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5320MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5312.58	32.50	6.39	33.74	83.64	88.79	68.20	-20.59	Peak
2	5350.00	32.57	6.36	33.71	42.77	47.99	68.20	20.21	Peak
3	5394.69	32.68	6.32	33.66	43.51	48.85	74.00	25.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

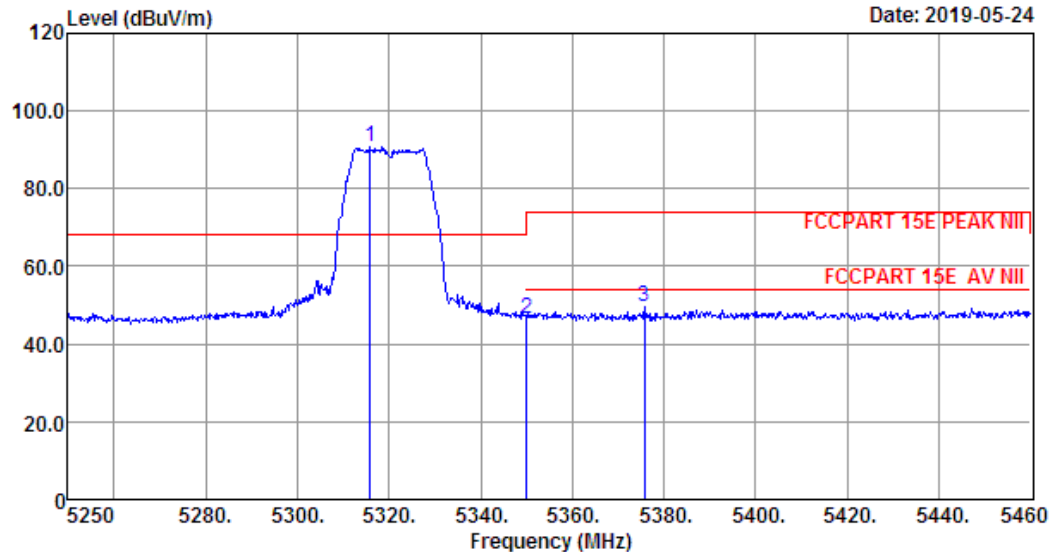
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Data: 58

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 58
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5320MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5315.94	32.50	6.39	33.74	85.51	90.66	68.20	-22.46	Peak
2	5350.00	32.57	6.36	33.71	41.32	46.54	68.20	21.66	Peak
3	5375.79	32.61	6.34	33.68	44.16	49.43	74.00	24.57	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

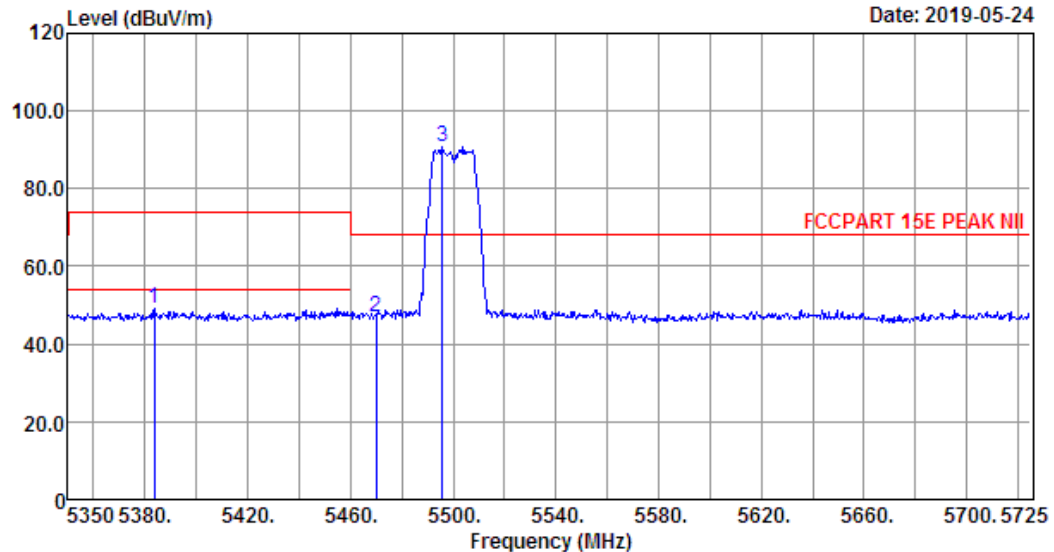
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Data: 59

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 59
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5500MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5383.75	32.64	6.34	33.68	43.88	49.18	74.00	24.82	Peak
2	5470.00	32.83	6.49	33.83	41.42	46.91	68.20	21.29	Peak
3	5495.88	32.86	6.54	33.88	85.17	90.69	68.20	-22.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

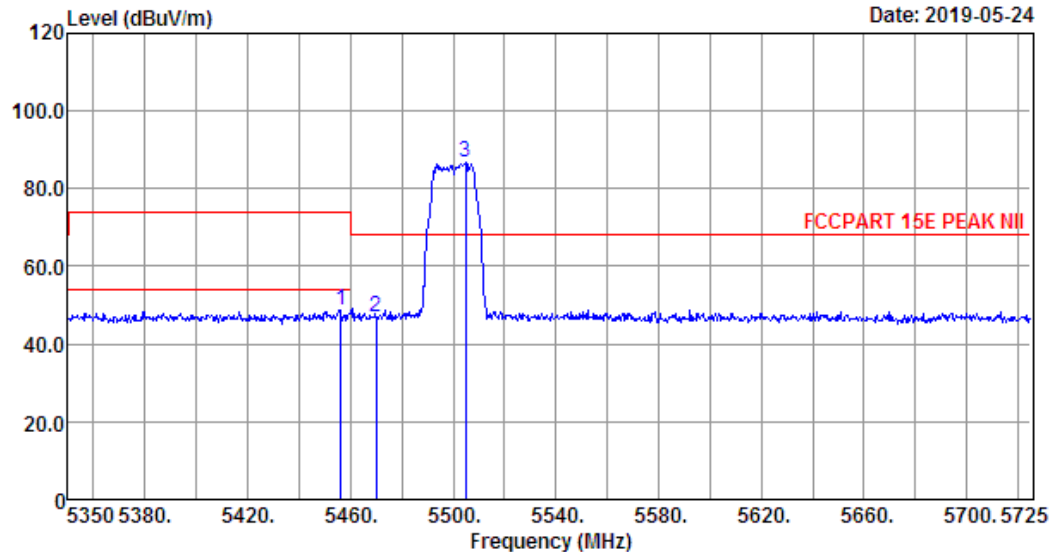
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Data: 60

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 60
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5500MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5456.13	32.79	6.45	33.79	43.28	48.73	74.00	25.27	Peak
2	5470.00	32.83	6.49	33.83	41.64	47.13	68.20	21.07	Peak
3	5504.88	32.90	6.58	33.92	81.04	86.60	68.20	-18.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

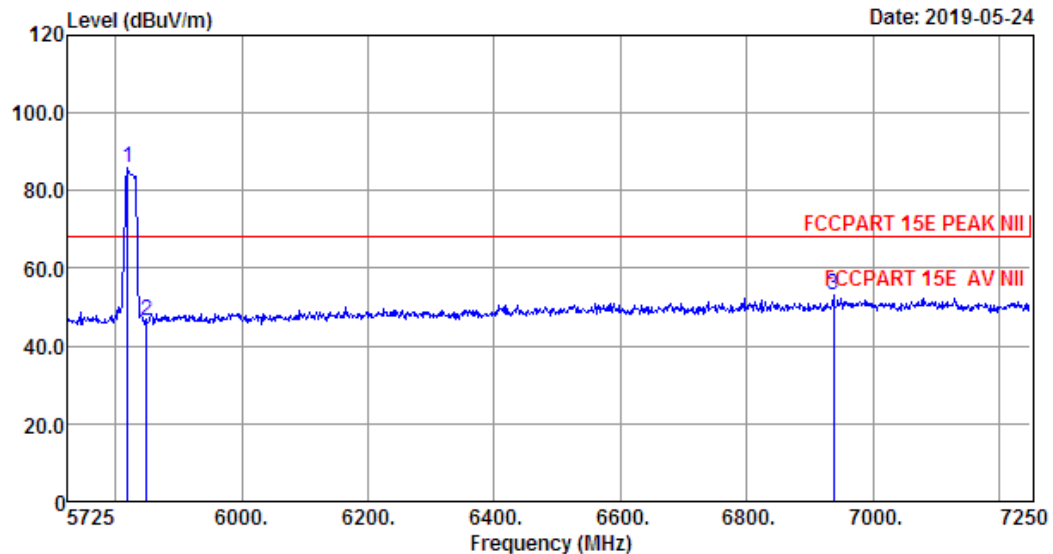
EST Technology

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Houjie, Dongguan, Guangdong, China
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Fax: +86-769-83081878

Data: 61

File: \\Emc-966-1\\test data\\2019\\RFID\\DongHongXinYe\\TW6.EM6 (100)

Date: 2019-05-24



Site no. : 1# 966 Chamber Data no. : 61
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5825MHz
 ANT 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5819.55	32.83	6.47	33.50	80.24	86.04	68.20	-17.84	Peak
2	5850.00	32.83	6.64	33.61	40.77	46.63	68.20	21.57	Peak
3	6937.38	35.63	7.27	31.82	42.17	53.25	68.20	14.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

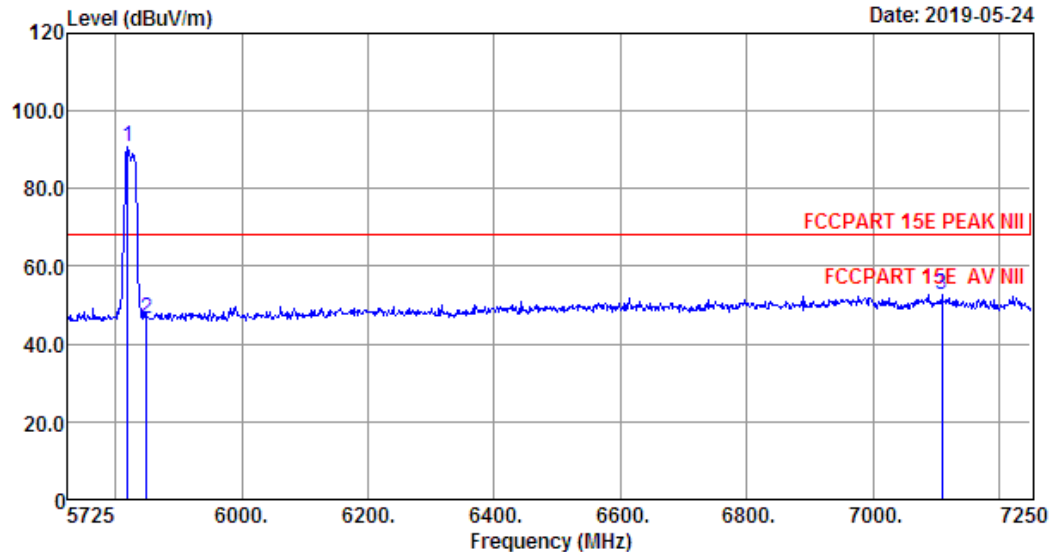
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Data: 62

File: \\Emc-966-1\test data\2019\RFID\ DongHongXinYe\TW6.EM6 (100)

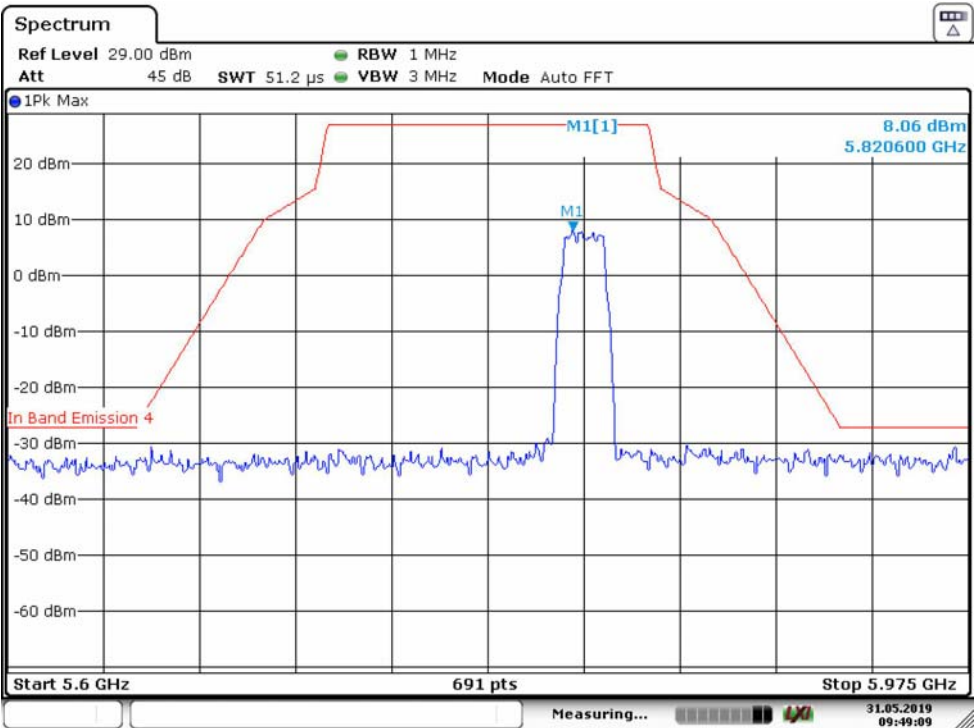
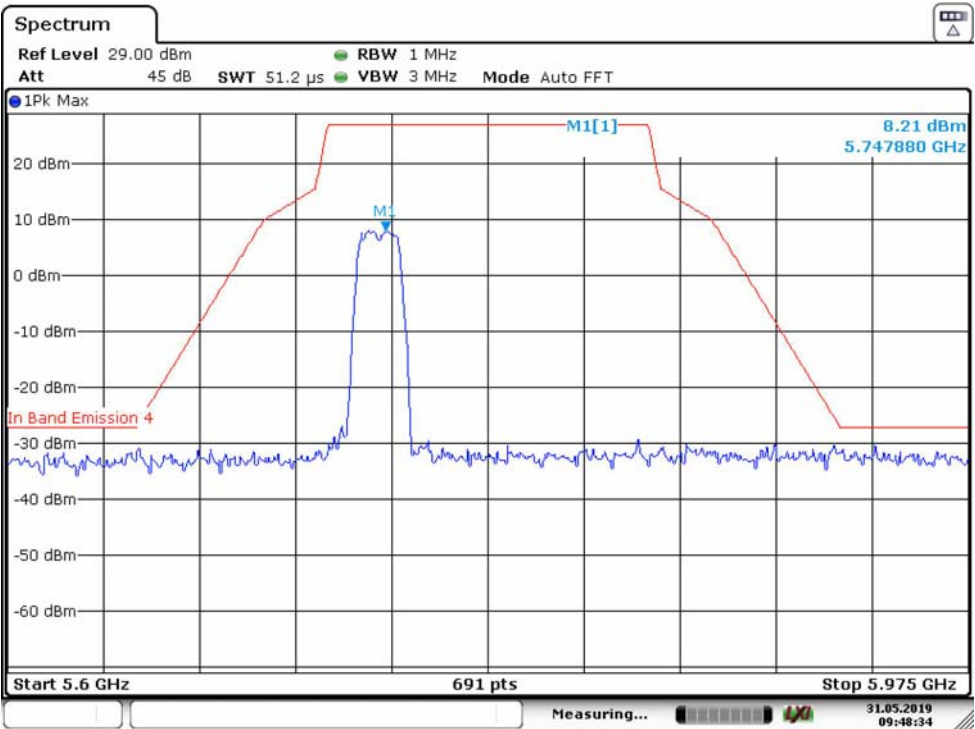
Date: 2019-05-24

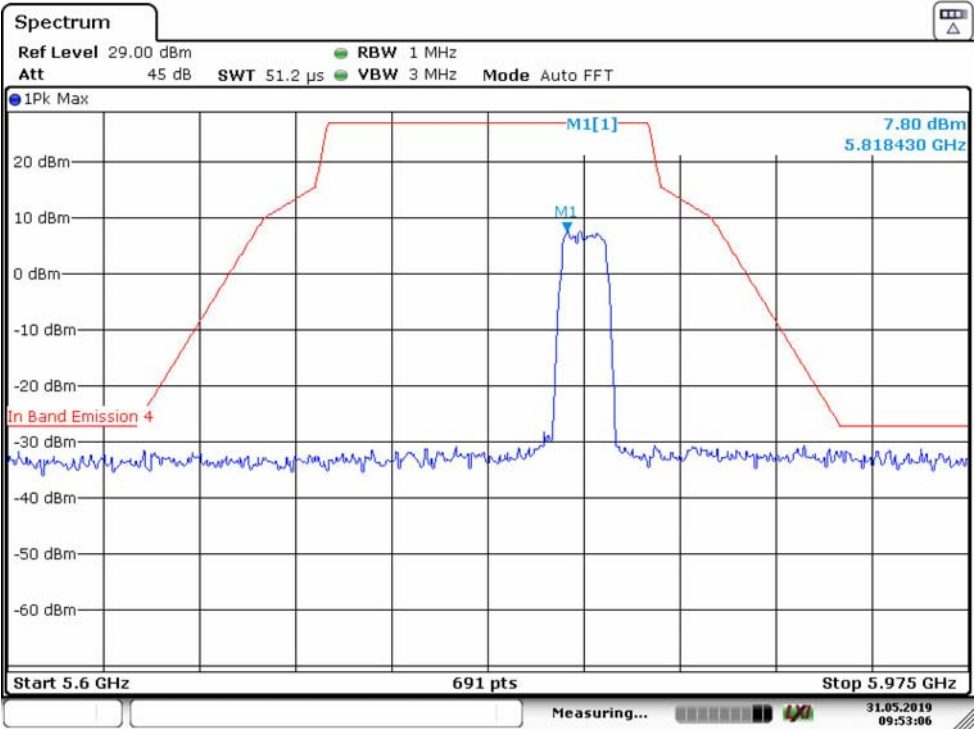
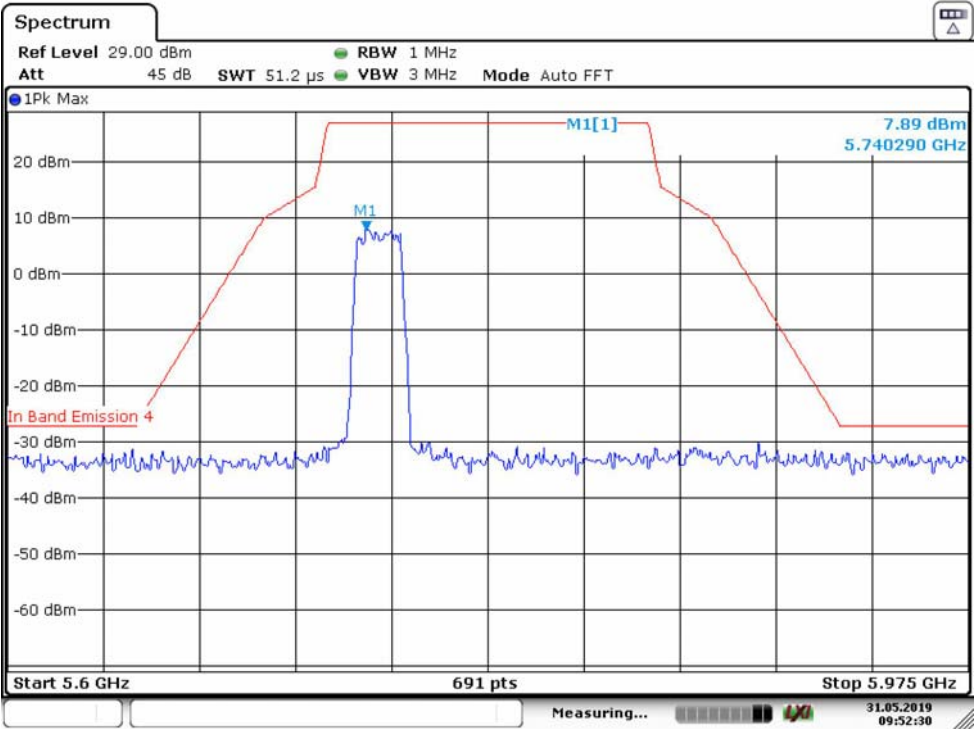


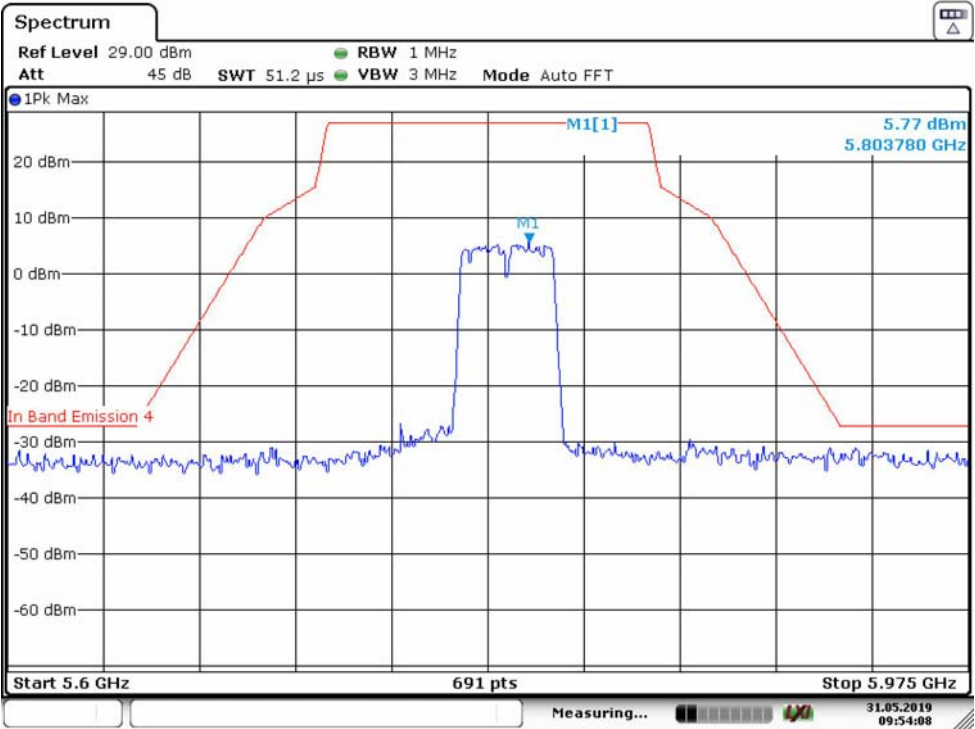
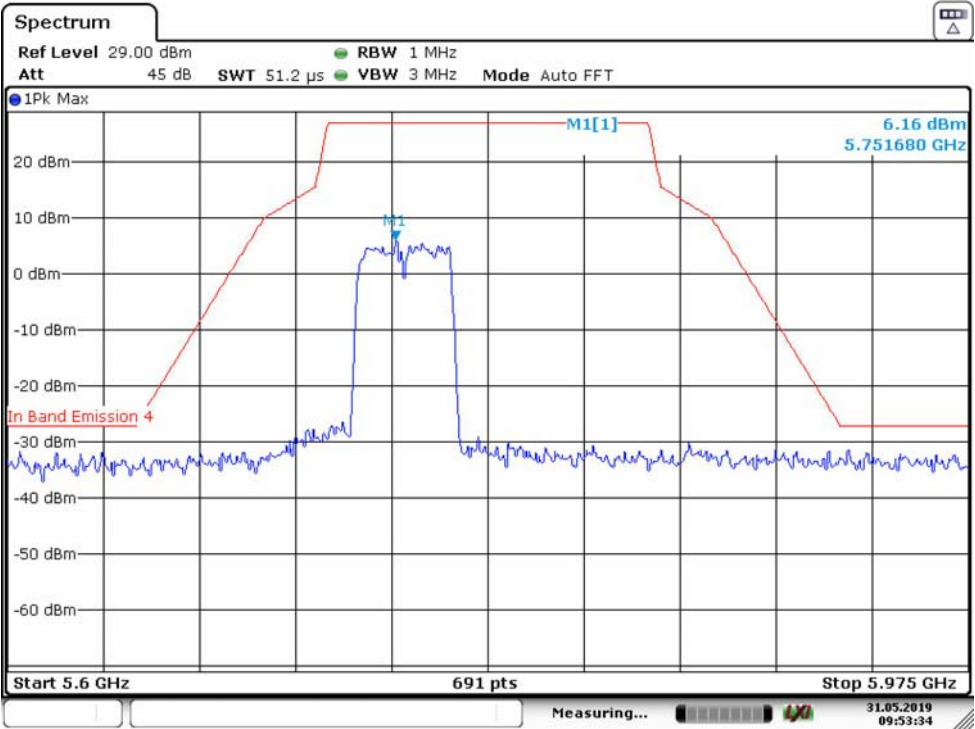
Site no. : 1# 966 Chamber Data no. : 62
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : IEEE 802.11a TX 5825MHz
 ANT 1

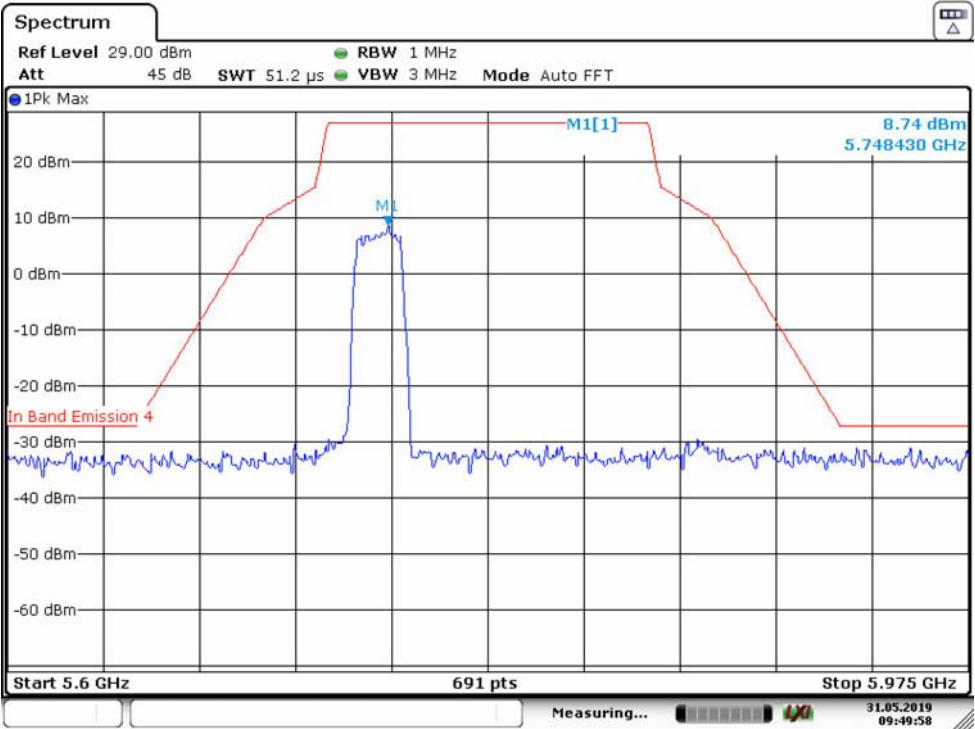
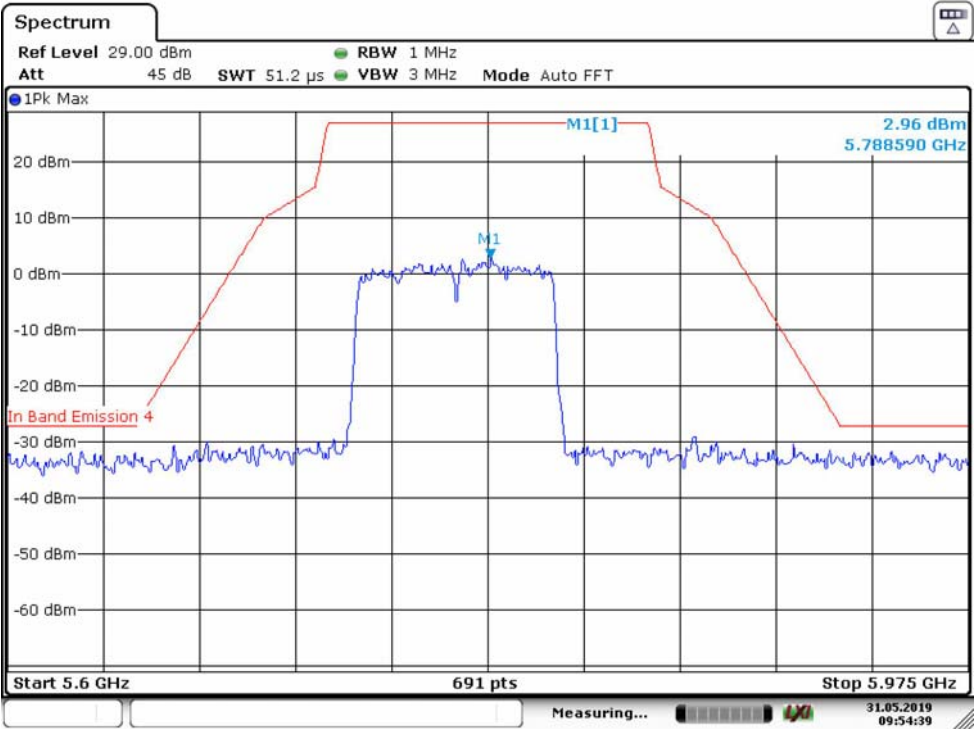
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5819.55	32.83	6.47	33.50	85.19	90.99	68.20	-22.79	Peak
2	5850.00	32.83	6.64	33.61	40.75	46.61	68.20	21.59	Peak
3	7109.70	35.92	7.47	30.99	40.34	52.74	68.20	15.46	Peak

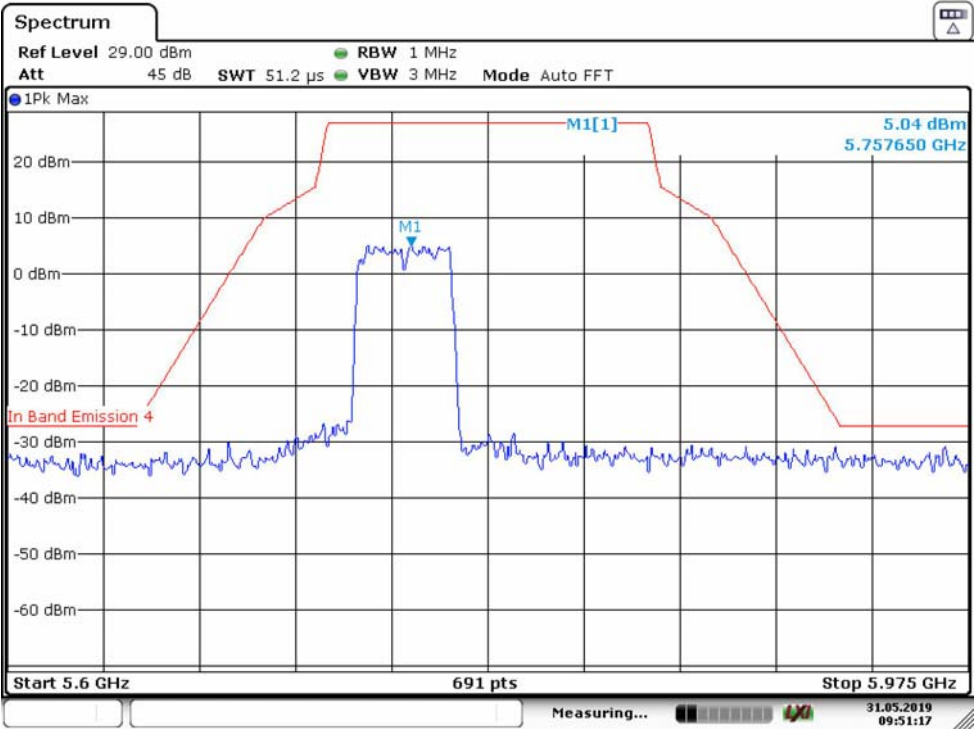
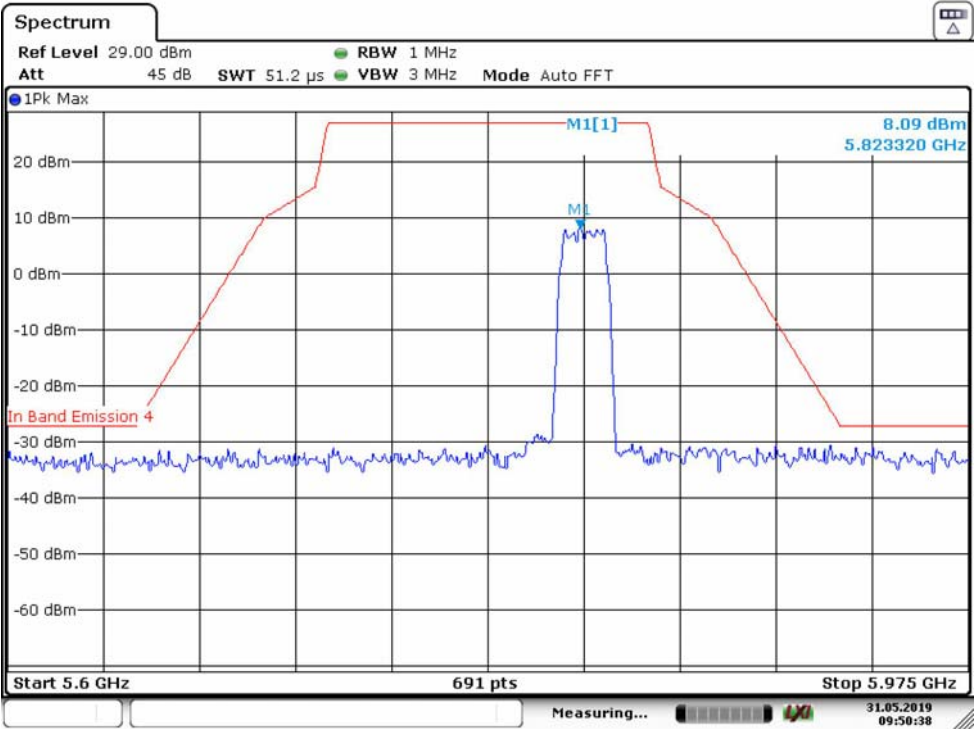
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

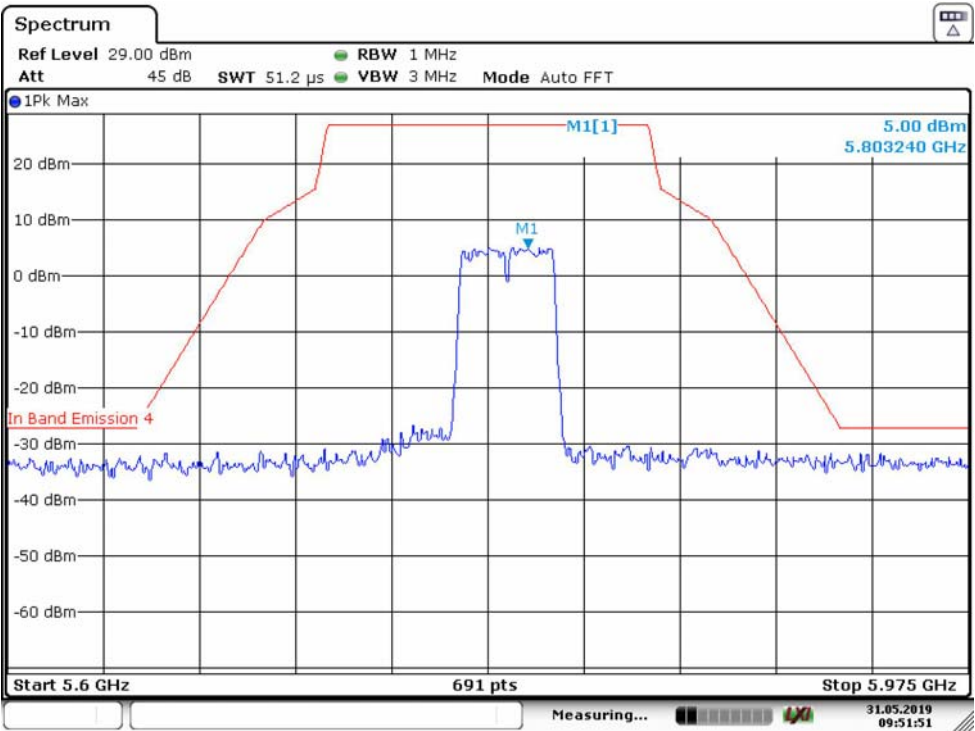










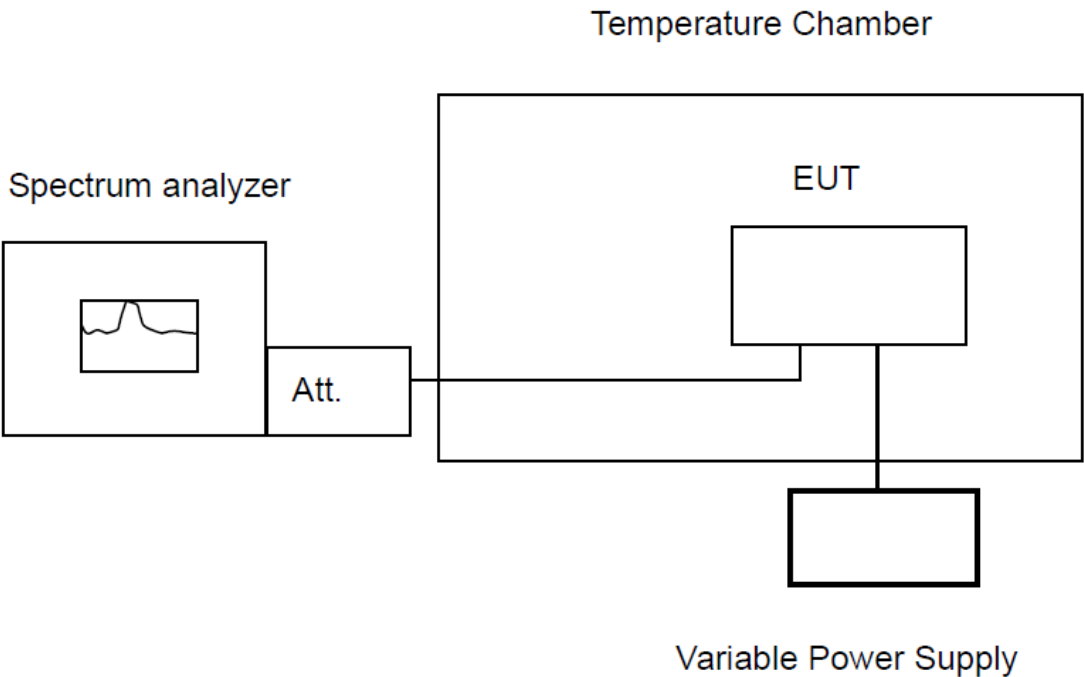


7. FREQUENCY STABILITY

7.1. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

7.2. Test Setup



7.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	10KHz
VBW	10KHz
Span	200KHz
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

7.4. Test Procedure

For measurement frequency stability under temperature variation :

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Set the temperature control on the chamber to the Specified temperature and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
- h. Repeat step d through step f to measured the temperature form -20°C to $+50^{\circ}\text{C}$ in 10°C steps.

For frequency stability under voltage variation:

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Unless otherwise specified, set the temperature control on the chamber to the ambient room temperature ($+15^{\circ}\text{C}$ to $+25^{\circ}\text{C}$) and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency.
- h. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

7.5. Test Result

UNII Band I	IEEE 802.11a 5180MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5179.970003	5150-5250	Pass
		25	120	5179.968003	5150-5250	Pass
		15	120	5179.964004	5150-5250	Pass
		5	120	5179.966004	5150-5250	Pass
		0	120	5179.966003	5150-5250	Pass
		25	102	5179.963004	5150-5250	Pass
		25	120	5179.968003	5150-5250	Pass
		25	138	5179.962004	5150-5250	Pass

UNII Band II	IEEE 802.11a 5260MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5259.962004	5250-5350	Pass
		25	120	5259.962004	5250-5350	Pass
		15	120	5259.965004	5250-5350	Pass
		5	120	5259.961004	5250-5350	Pass
		0	120	5259.961004	5250-5350	Pass
		25	102	5259.963004	5250-5350	Pass
		25	120	5259.962004	5250-5350	Pass
		25	138	5259.962004	5250-5350	Pass

UNII Band III	IEEE 802.11a 5500MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5499.963004	5475-5725	Pass
		25	120	5499.966003	5475-5725	Pass
		15	120	5499.963004	5475-5725	Pass
		5	120	5499.961004	5475-5725	Pass
		0	120	5499.962004	5475-5725	Pass
		25	102	5499.968003	5475-5725	Pass
		25	120	5499.966003	5475-5725	Pass
		25	138	5499.962004	5475-5725	Pass

UNII Band IV	IEEE 802.11a 5745MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5744.958475	5725-5850	Pass
		25	120	5744.955475	5725-5850	Pass
		15	120	5744.956475	5725-5850	Pass
		5	120	5744.953476	5725-5850	Pass
		0	120	5744.957475	5725-5850	Pass
		25	102	5744.956475	5725-5850	Pass
		25	120	5744.955475	5725-5850	Pass
		25	138	5744.956005	5725-5850	Pass

UNII Band I	IEEE 802.11n HT20 5180MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5179.970003	5150-5250	Pass
		25	120	5179.964004	5150-5250	Pass
		15	120	5179.961004	5150-5250	Pass
		5	120	5179.969003	5150-5250	Pass
		0	120	5179.963004	5150-5250	Pass
		25	102	5179.962004	5150-5250	Pass
		25	120	5179.964004	5150-5250	Pass
		25	138	5179.964004	5150-5250	Pass

UNII Band II	IEEE 802.11n HT20 5260MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5259.970003	5250-5350	Pass
		25	120	5259.962004	5250-5350	Pass
		15	120	5259.964004	5250-5350	Pass
		5	120	5259.962004	5250-5350	Pass
		0	120	5259.963004	5250-5350	Pass
		25	102	5259.967003	5250-5350	Pass
		25	120	5259.962004	5250-5350	Pass
		25	138	5259.965004	5250-5350	Pass

		Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
UNII Band III	IEEE 802.11n HT20 5500MHz	35	120	5499.968004	5475-5725	Pass
		25	120	5499.965004	5475-5725	Pass
		15	120	5499.968004	5475-5725	Pass
		5	120	5499.968004	5475-5725	Pass
		0	120	5499.962004	5475-5725	Pass
		25	102	5499.963004	5475-5725	Pass
		25	120	5499.965004	5475-5725	Pass
		25	138	5499.965004	5475-5725	Pass

		Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
UNII Band IV	IEEE 802.11n HT20 5745MHz	35	120	5744.958475	5475-5725	Pass
		25	120	5744.954475	5475-5725	Pass
		15	120	5744.952005	5475-5725	Pass
		5	120	5744.954475	5475-5725	Pass
		0	120	5744.953005	5475-5725	Pass
		25	102	5744.958004	5475-5725	Pass
		25	120	5744.954475	5475-5725	Pass
		25	138	5744.951475	5475-5725	Pass

		Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
UNII Band I	IEEE 802.11n HT40 5190MHz	35	120	5190.000000	5150-5250	Pass
		25	120	5190.000000	5150-5250	Pass
		15	120	5190.000000	5150-5250	Pass
		5	120	5190.000000	5150-5250	Pass
		0	120	5190.000000	5150-5250	Pass
		25	102	5190.000000	5150-5250	Pass
		25	120	5190.000000	5150-5250	Pass
		25	138	5190.000000	5150-5250	Pass

		Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
UNII Band II	IEEE 802.11n HT40 5270MHz	35	120	5269.966004	5250-5350	Pass
		25	120	5269.956946	5250-5350	Pass
		15	120	5269.964004	5250-5350	Pass
		5	120	5269.964004	5250-5350	Pass
		0	120	5269.963003	5250-5350	Pass
		25	102	5269.966004	5250-5350	Pass
		25	120	5269.956946	5250-5350	Pass
		25	138	5269.957064	5250-5350	Pass

		Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
UNII Band III	IEEE 802.11n HT40 5510MHz	35	120	5509.964004	5475-5725	Pass
		25	120	5509.964004	5475-5725	Pass
		15	120	5509.960945	5475-5725	Pass
		5	120	5509.964004	5475-5725	Pass
		0	120	5509.964004	5475-5725	Pass
		25	102	5509.966945	5475-5725	Pass
		25	120	5509.964004	5475-5725	Pass
		25	138	5509.956005	5475-5725	Pass

Band	Mode	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
UNII Band IV	IEEE 802.11n HT40 5755MHz	35	120	5754.952005	5725-5850	Pass
		25	120	5754.949886	5725-5850	Pass
		15	120	5754.952005	5725-5850	Pass
		5	120	5754.952005	5725-5850	Pass
		0	120	5754.945887	5725-5850	Pass
		25	102	5754.949886	5725-5850	Pass
		25	120	5754.949886	5725-5850	Pass
		25	138	5754.949886	5725-5850	Pass

UNII Band I	IEEE 802.11ac VHT20 5180MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5179.966003	5150-5250	Pass
		25	120	5179.963474	5150-5250	Pass
		15	120	5179.961004	5150-5250	Pass
		5	120	5179.964004	5150-5250	Pass
		0	120	5179.965004	5150-5250	Pass
		25	102	5179.961004	5150-5250	Pass
		25	120	5179.963474	5150-5250	Pass
		25	138	5179.971003	5150-5250	Pass

UNII Band II	IEEE 802.11ac VHT20 5260MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5259.970003	5250-5350	Pass
		25	120	5259.962474	5250-5350	Pass
		15	120	5259.962474	5250-5350	Pass
		5	120	5259.965004	5250-5350	Pass
		0	120	5259.962004	5250-5350	Pass
		25	102	5259.964004	5250-5350	Pass
		25	120	5259.962474	5250-5350	Pass
		25	138	5259.964004	5250-5350	Pass

UNII Band III	IEEE 802.11ac VHT20 5500MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5499.966003	5475-5725	Pass
		25	120	5499.969003	5475-5725	Pass
		15	120	5499.961004	5475-5725	Pass
		5	120	5499.964004	5475-5725	Pass
		0	120	5499.963004	5475-5725	Pass
		25	102	5499.972003	5475-5725	Pass
		25	120	5499.969003	5475-5725	Pass
		25	138	5499.965004	5475-5725	Pass

UNII Band IV	IEEE 802.11ac VHT20 5745MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5744.953005	5725-5850	Pass
		25	120	5744.958004	5725-5850	Pass
		15	120	5744.953005	5725-5850	Pass
		5	120	5744.954475	5725-5850	Pass
		0	120	5744.953005	5725-5850	Pass
		25	102	5744.951475	5725-5850	Pass
		25	120	5744.958004	5725-5850	Pass
		25	138	5744.954475	5725-5850	Pass

UNII Band I	IEEE 802.11ac VHT40 5190MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5190.000000	5150-5250	Pass
		25	120	5190.000000	5150-5250	Pass
		15	120	5190.000000	5150-5250	Pass
		5	120	5190.000000	5150-5250	Pass
		0	120	5190.000000	5150-5250	Pass
		25	102	5190.000000	5150-5250	Pass
		25	120	5190.000000	5150-5250	Pass
		25	138	5190.000000	5150-5250	Pass

UNII Band II	IEEE 802.11ac VHT40 5270MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5269.966004	5250-5350	Pass
		25	120	5269.968003	5250-5350	Pass
		15	120	5269.966004	5250-5350	Pass
		5	120	5269.968003	5250-5350	Pass
		0	120	5269.968003	5250-5350	Pass
		25	102	5269.970003	5250-5350	Pass
		25	120	5269.968003	5250-5350	Pass
		25	138	5269.968003	5250-5350	Pass

UNII Band III	IEEE 802.11ac VHT40 5510MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5509.964004	5475-5725	Pass
		25	120	5509.962945	5475-5725	Pass
		15	120	5509.966004	5475-5725	Pass
		5	120	5509.970003	5475-5725	Pass
		0	120	5509.962004	5475-5725	Pass
		25	102	5509.966004	5475-5725	Pass
		25	120	5509.962945	5475-5725	Pass
		25	138	5509.966004	5475-5725	Pass

UNII Band IV	IEEE 802.11ac VHT40 5755MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5754.953886	5725-5850	Pass
		25	120	5754.956005	5725-5850	Pass
		15	120	5754.953886	5725-5850	Pass
		5	120	5754.948006	5725-5850	Pass
		0	120	5754.953886	5725-5850	Pass
		25	102	5754.953886	5725-5850	Pass
		25	120	5754.956005	5725-5850	Pass
		25	138	5754.952005	5725-5850	Pass

UNII Band I	IEEE 802.11ac VHT80 5210MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5209.968003	5150-5250	Pass
		25	120	5209.970122	5150-5250	Pass
		15	120	5209.965885	5150-5250	Pass
		5	120	5209.968003	5150-5250	Pass
		0	120	5209.968003	5150-5250	Pass
		25	102	5209.968003	5150-5250	Pass
		25	120	5209.970122	5150-5250	Pass
		25	138	5209.966123	5150-5250	Pass

UNII Band II	IEEE 802.11ac VHT80 5290MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5289.965885	5250-5350	Pass
		25	120	5289.960004	5250-5350	Pass
		15	120	5289.965885	5250-5350	Pass
		5	120	5289.964004	5250-5350	Pass
		0	120	5289.968003	5250-5350	Pass
		25	102	5289.960004	5250-5350	Pass
		25	120	5289.960004	5250-5350	Pass
		25	138	5289.964004	5250-5350	Pass

UNII Band III	IEEE 802.11ac VHT80 5530MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5529.960004	5475-5725	Pass
		25	120	5529.960004	5475-5725	Pass
		15	120	5529.965885	5475-5725	Pass
		5	120	5529.960004	5475-5725	Pass
		0	120	5529.962123	5475-5725	Pass
		25	102	5529.957885	5475-5725	Pass
		25	120	5529.960004	5475-5725	Pass
		25	138	5529.957885	5475-5725	Pass

UNII Band IV	IEEE 802.11ac VHT80 5775MHz	Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Result
		35	120	5774.856005	5725-5850	Pass
		25	120	5774.957885	5725-5850	Pass
		15	120	5774.957886	5725-5850	Pass
		5	120	5774.952005	5725-5850	Pass
		0	120	5774.949886	5725-5850	Pass
		25	102	5774.952005	5725-5850	Pass
		25	120	5774.957885	5725-5850	Pass
		25	138	5774.957886	5725-5850	Pass

8. AC POWER LINE CONDUCTED EMISSIONS

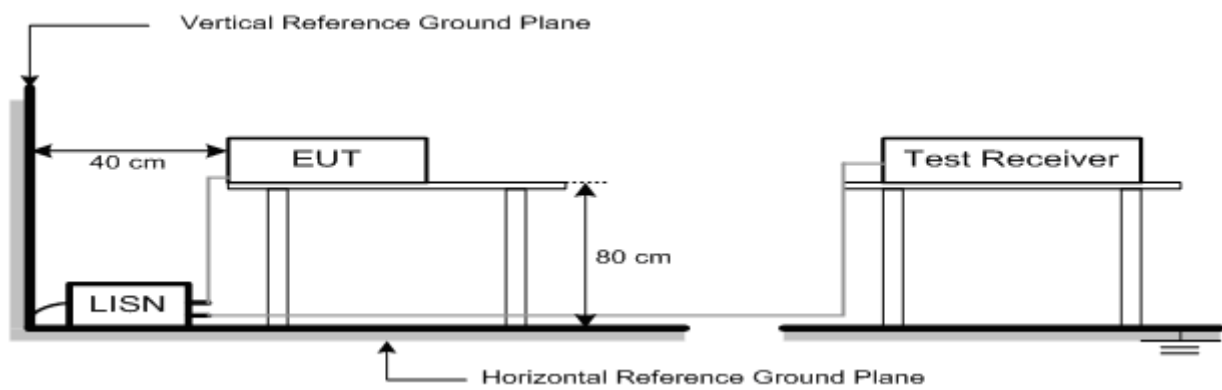
8.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

8.2. Test Setup



8.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

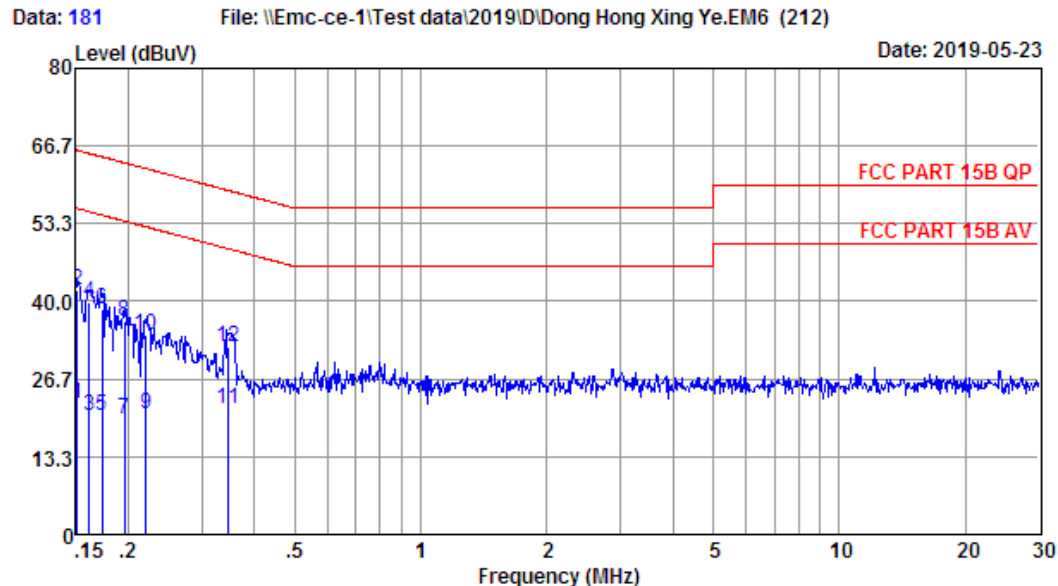
8.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 8.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

8.5. Test Result

EST Technology

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Site no : 844 Shield Room Data no. : 181
 Env. / Ins. : Temp:23.2'C Humi:51% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 240V/60Hz
 M/N : TW6
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.59	9.69	3.20	22.48	55.96	33.48	Average
2	0.15	9.59	9.69	22.59	41.87	65.96	24.09	QP
3	0.16	9.59	9.69	1.20	20.48	55.38	34.90	Average
4	0.16	9.59	9.69	20.59	39.87	65.38	25.51	QP
5	0.17	9.59	9.69	1.20	20.48	54.81	34.33	Average
6	0.17	9.59	9.69	19.39	38.67	64.81	26.14	QP
7	0.20	9.60	9.77	0.43	19.80	53.80	34.00	Average
8	0.20	9.60	9.77	17.34	36.71	63.80	27.09	QP
9	0.22	9.61	9.84	1.17	20.62	52.79	32.17	Average
10	0.22	9.61	9.84	14.94	34.39	62.79	28.40	QP
11	0.35	9.62	9.92	1.87	21.41	49.05	27.64	Average
12	0.35	9.62	9.92	12.68	32.22	59.05	26.83	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

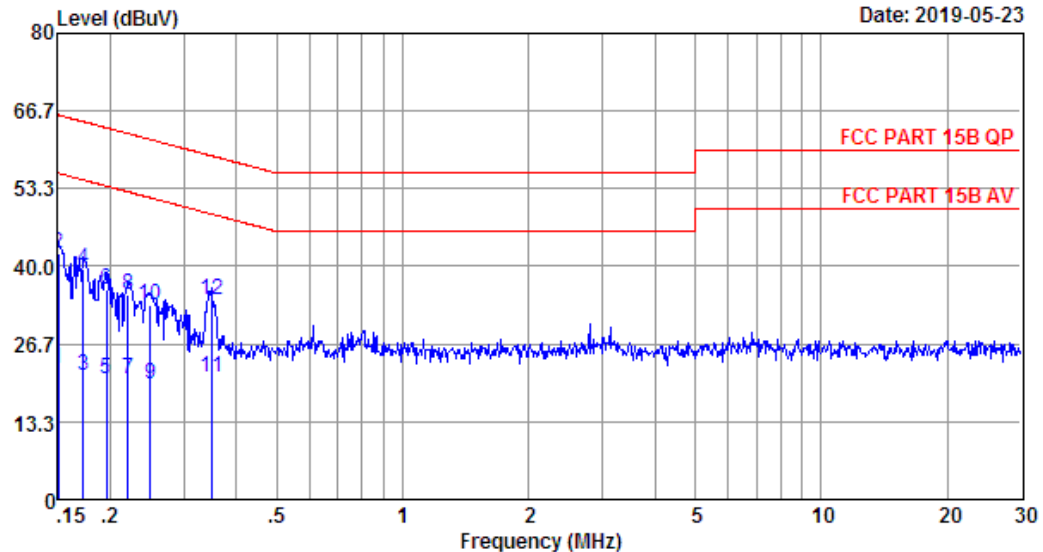
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Data: 183

File: \\Emc-ce-1\Test data\2019\DI\ Dong Hong Xing Ye.EM6 (212)

Date: 2019-05-23



Site no : 844 Shield Room Data no. : 183
 Env. / Ins. : Temp:23.2'C Humi:51% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 240V/60Hz
 M/N : TW6
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.50	9.69	3.20	22.39	56.00	33.61	Average
2	0.15	9.50	9.69	23.06	42.25	66.00	23.75	QP
3	0.17	9.50	9.69	2.20	21.39	54.86	33.47	Average
4	0.17	9.50	9.69	20.34	39.53	64.86	25.33	QP
5	0.20	9.53	9.77	1.43	20.73	53.80	33.07	Average
6	0.20	9.53	9.77	16.71	36.01	63.80	27.79	QP
7	0.22	9.53	9.84	1.42	20.79	52.79	32.00	Average
8	0.22	9.53	9.84	15.76	35.13	62.79	27.66	QP
9	0.25	9.53	9.92	0.41	19.86	51.78	31.92	Average
10	0.25	9.53	9.92	13.94	33.39	61.78	28.39	QP
11	0.35	9.55	9.92	1.53	21.00	49.00	28.00	Average
12	0.35	9.55	9.92	14.73	34.20	59.00	24.80	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

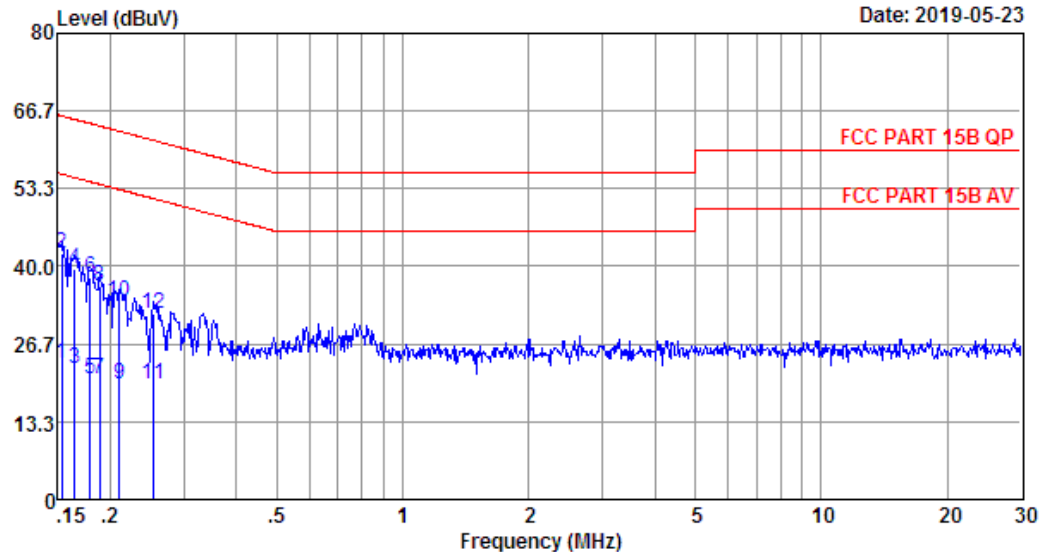
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Data: 185

File: \\Emc-ce-1\Test data\2019\D\ Dong Hong Xing Ye.EM6 (212)

Date: 2019-05-23



Site no : 844 Shield Room Data no. : 185
 Env. / Ins. : Temp:23.2'C Humi:51% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.50	9.69	4.20	23.39	55.82	32.43	Average
2	0.15	9.50	9.69	23.02	42.21	65.82	23.61	QP
3	0.16	9.50	9.69	3.20	22.39	55.25	32.86	Average
4	0.16	9.50	9.69	20.48	39.67	65.25	25.58	QP
5	0.18	9.53	9.77	1.43	20.73	54.55	33.82	Average
6	0.18	9.53	9.77	18.69	37.99	64.55	26.56	QP
7	0.19	9.53	9.77	1.43	20.73	54.11	33.38	Average
8	0.19	9.53	9.77	17.31	36.61	64.11	27.50	QP
9	0.21	9.53	9.84	0.42	19.79	53.18	33.39	Average
10	0.21	9.53	9.84	14.64	34.01	63.18	29.17	QP
11	0.25	9.53	9.92	0.41	19.86	51.64	31.78	Average
12	0.25	9.53	9.92	12.42	31.87	61.64	29.77	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

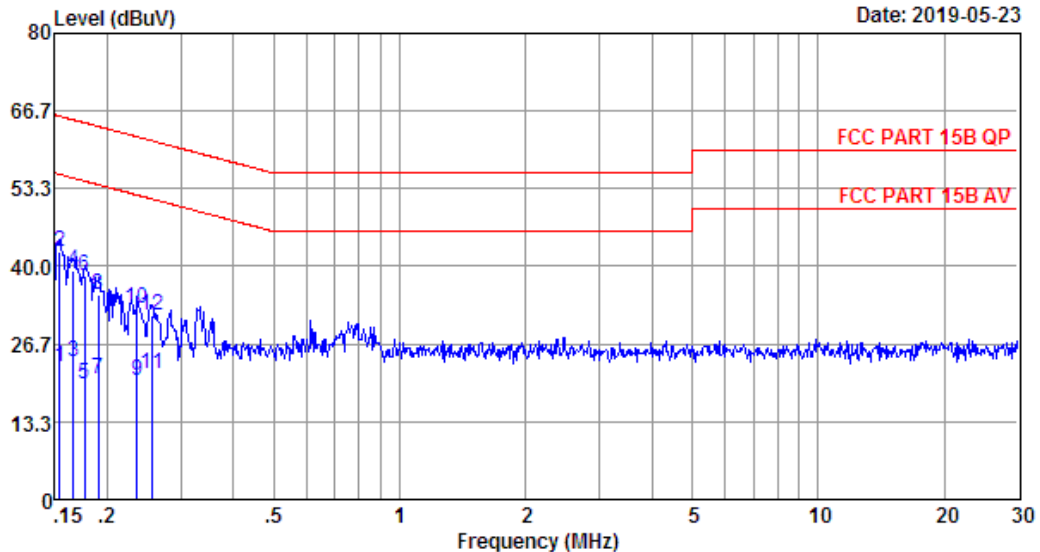
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Data: 187

File: \\Emc-ce-1\Test data\2019\DI\ Dong Hong Xing Ye.EM6 (212)

Date: 2019-05-23



Site no : 844 Shield Room Data no. : 187
 Env. / Ins. : Temp:23.2'C Humi:51% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Viking
 EUT : WAVE+Lily
 Power : DC 12V From Adapter Input AC 120V/60Hz
 M/N : TW6
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.59	9.69	3.52	22.80	55.78	32.98	Average
2	0.15	9.59	9.69	23.25	42.53	65.78	23.25	QP
3	0.17	9.59	9.69	4.20	23.48	55.16	31.68	Average
4	0.17	9.59	9.69	19.89	39.17	65.16	25.99	QP
5	0.18	9.60	9.77	0.43	19.80	54.64	34.84	Average
6	0.18	9.60	9.77	18.86	38.23	64.64	26.41	QP
7	0.19	9.60	9.77	1.43	20.80	54.02	33.22	Average
8	0.19	9.60	9.77	15.88	35.25	64.02	28.77	QP
9	0.24	9.61	9.92	0.90	20.43	52.26	31.83	Average
10	0.24	9.61	9.92	13.32	32.85	62.26	29.41	QP
11	0.26	9.61	9.92	1.90	21.43	51.56	30.13	Average
12	0.26	9.61	9.92	11.92	31.45	61.56	30.11	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

9. ANTENNA REQUIREMENTS

9.1. Limit

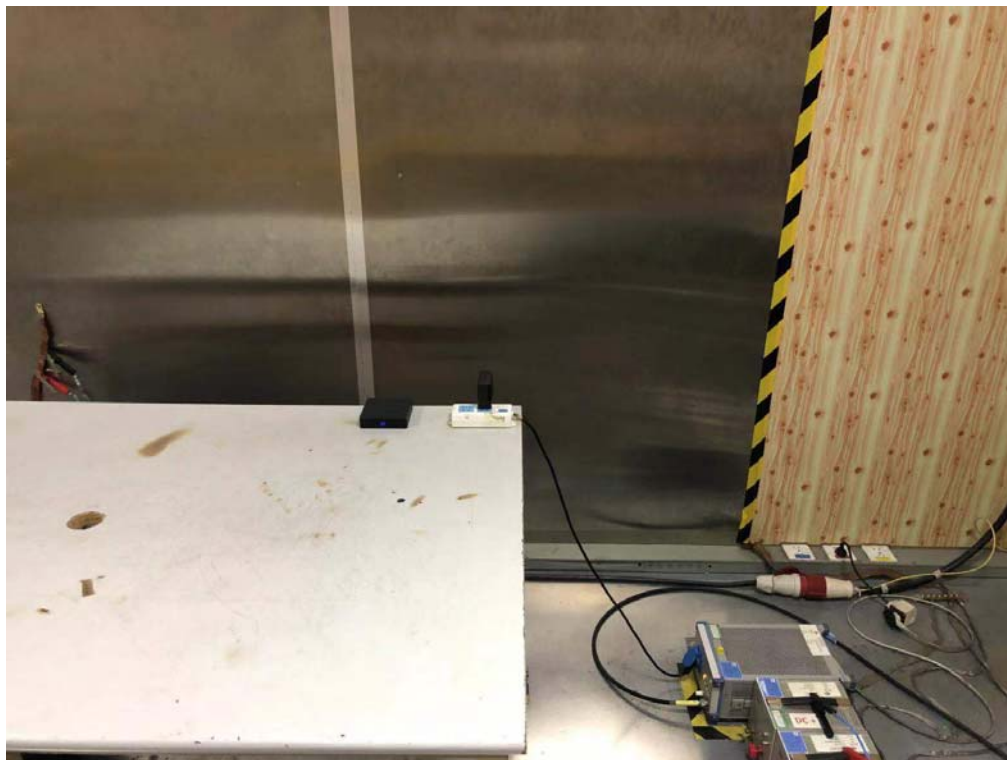
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

9.2. Test Result

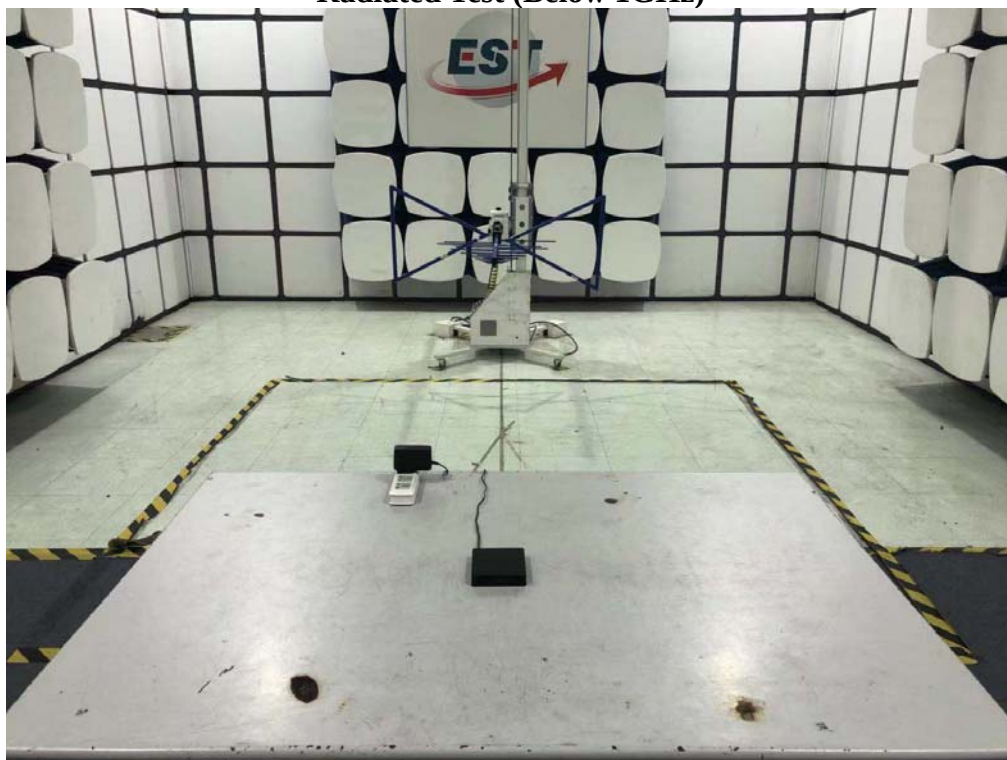
The antennas used for this product is integral antenna ,so compliance with antenna requirements.
(Please refer to the EUT photo for details)

10. TEST SETUP PHOTO

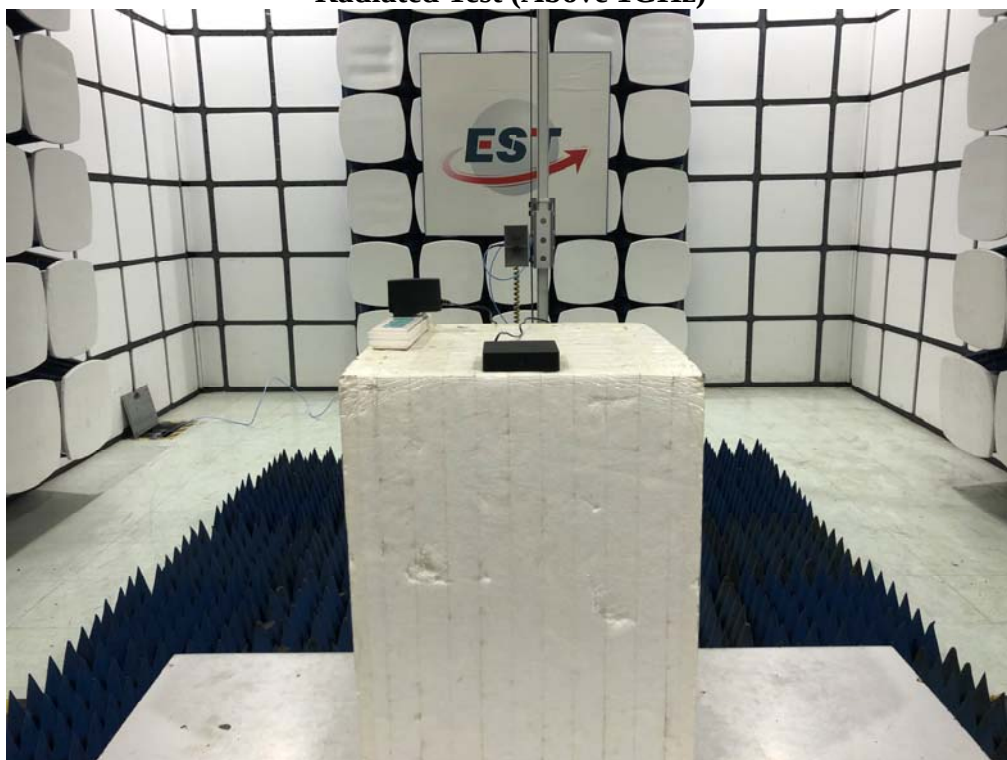
Conducted Test



Radiated Test (Below 1GHz)

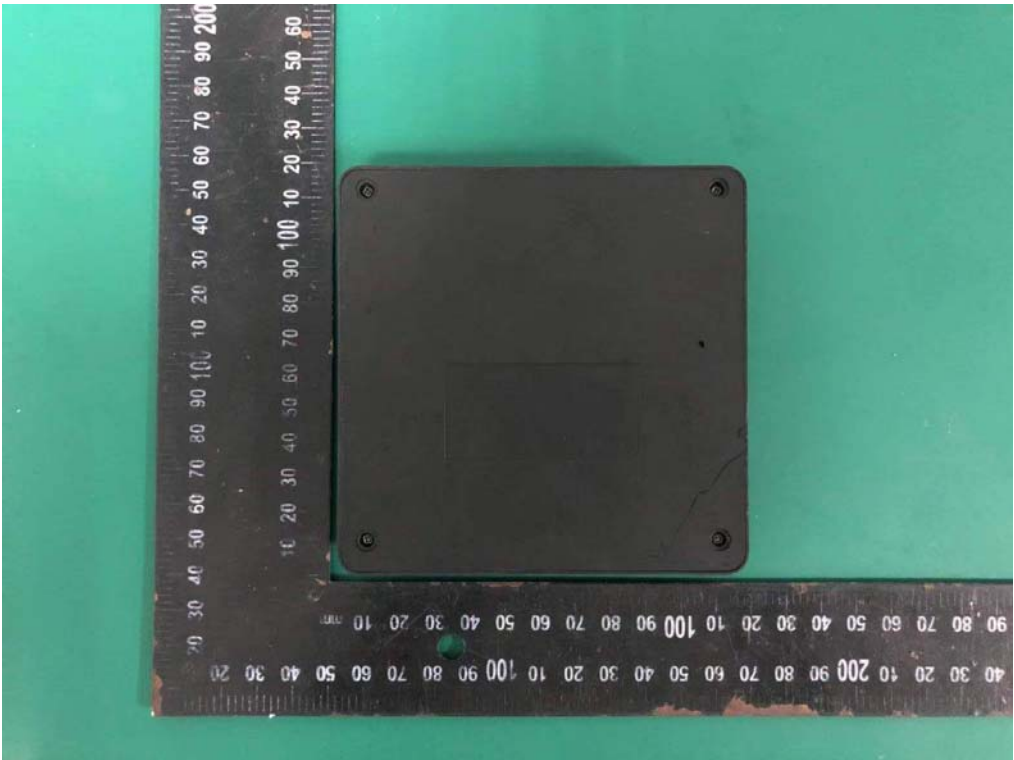
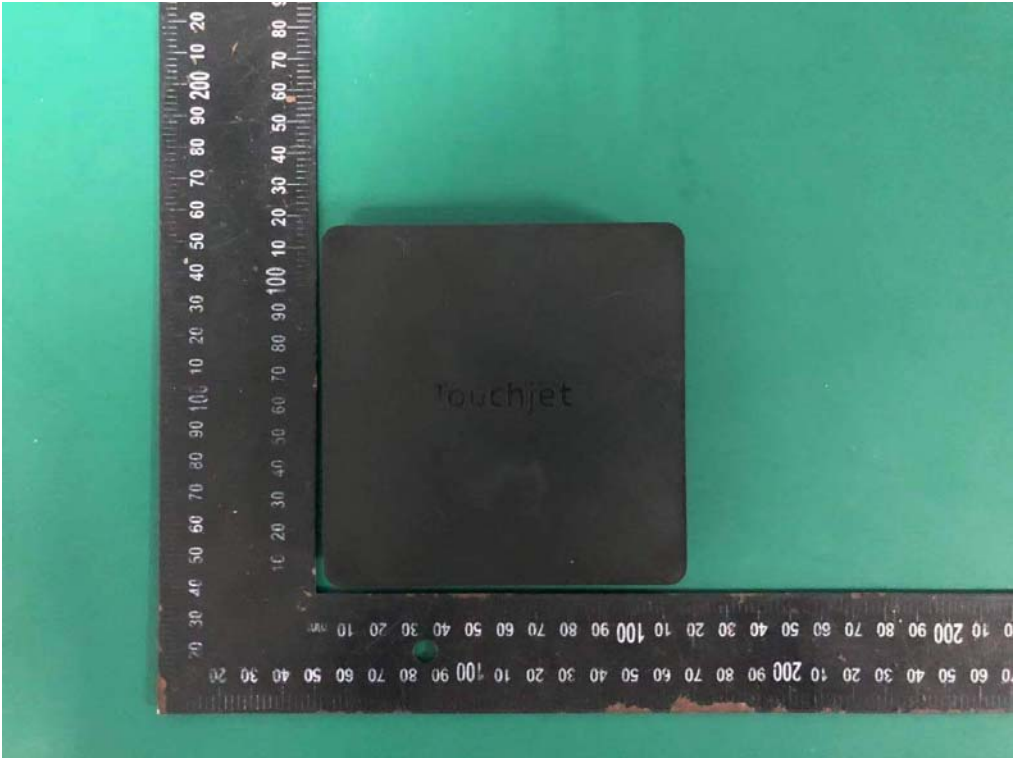


Radiated Test (Above 1GHz)

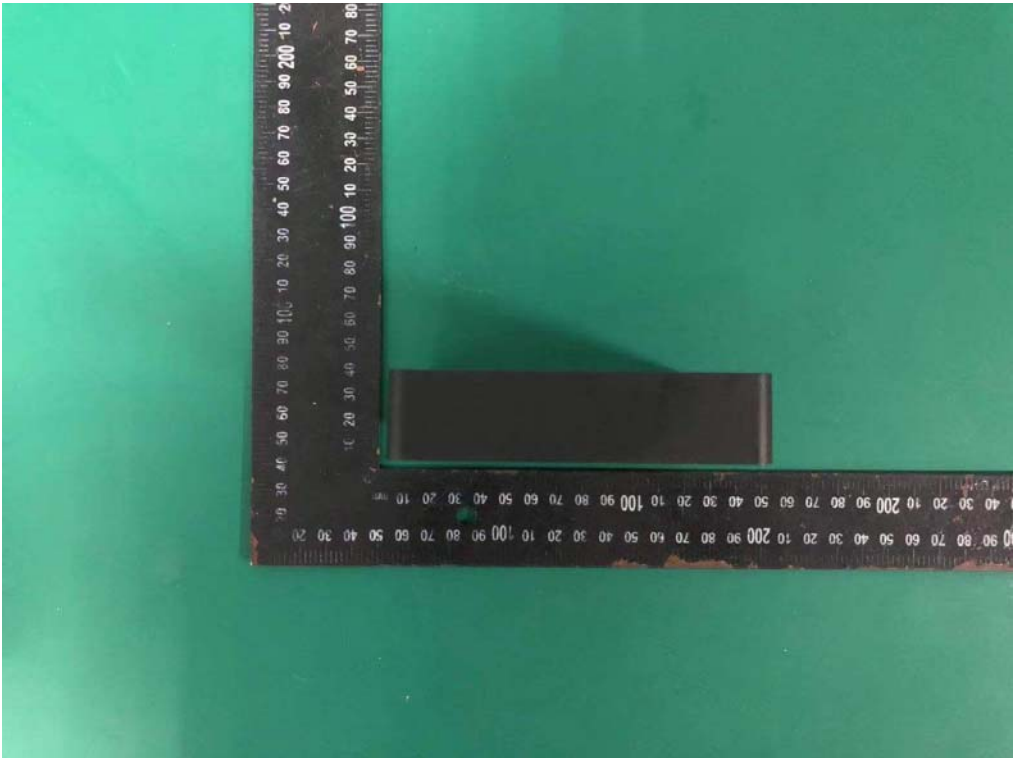


11.PHOTO EUT

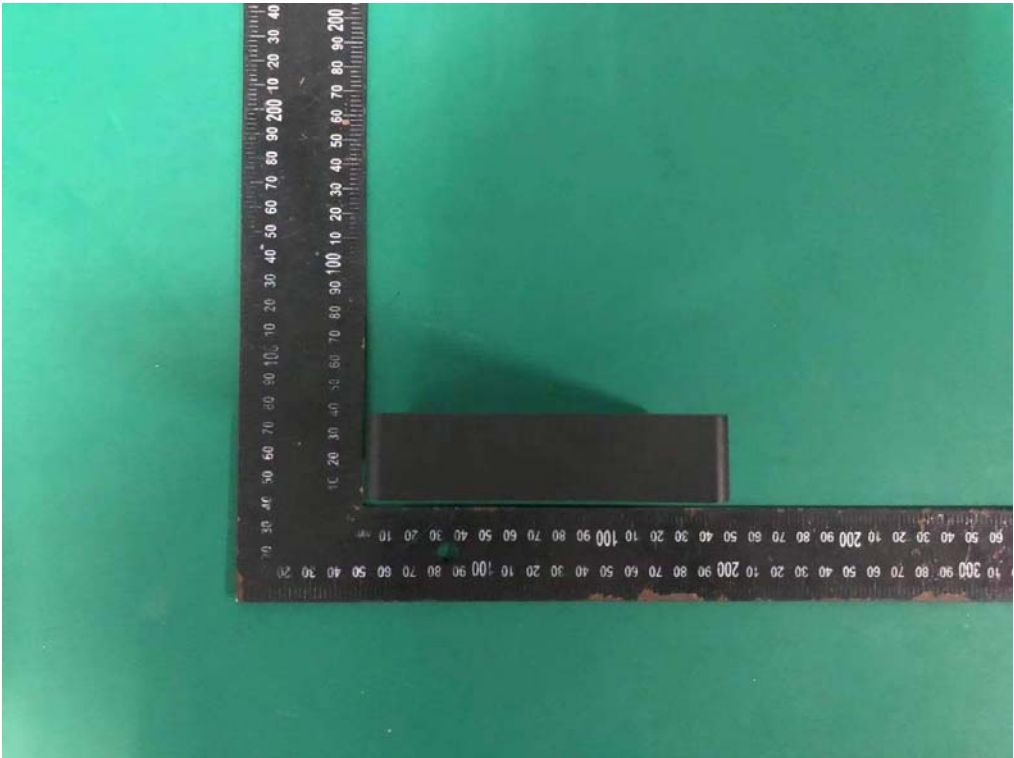
External Photos
M/N: TW6



External Photos
M/N: TW6



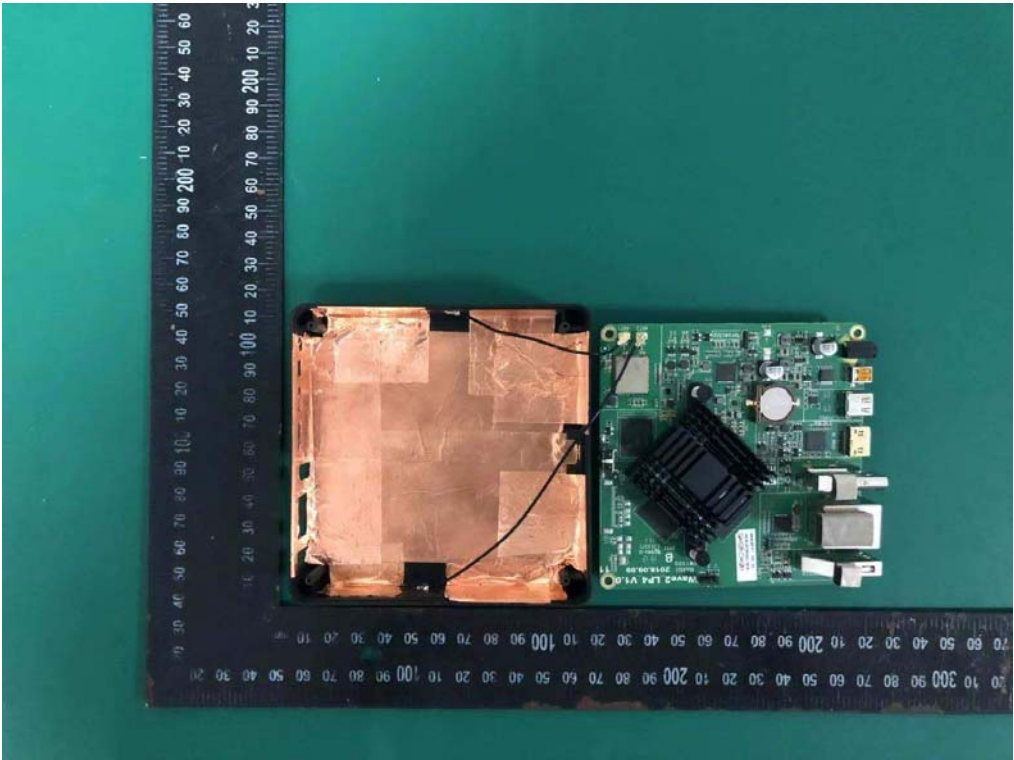
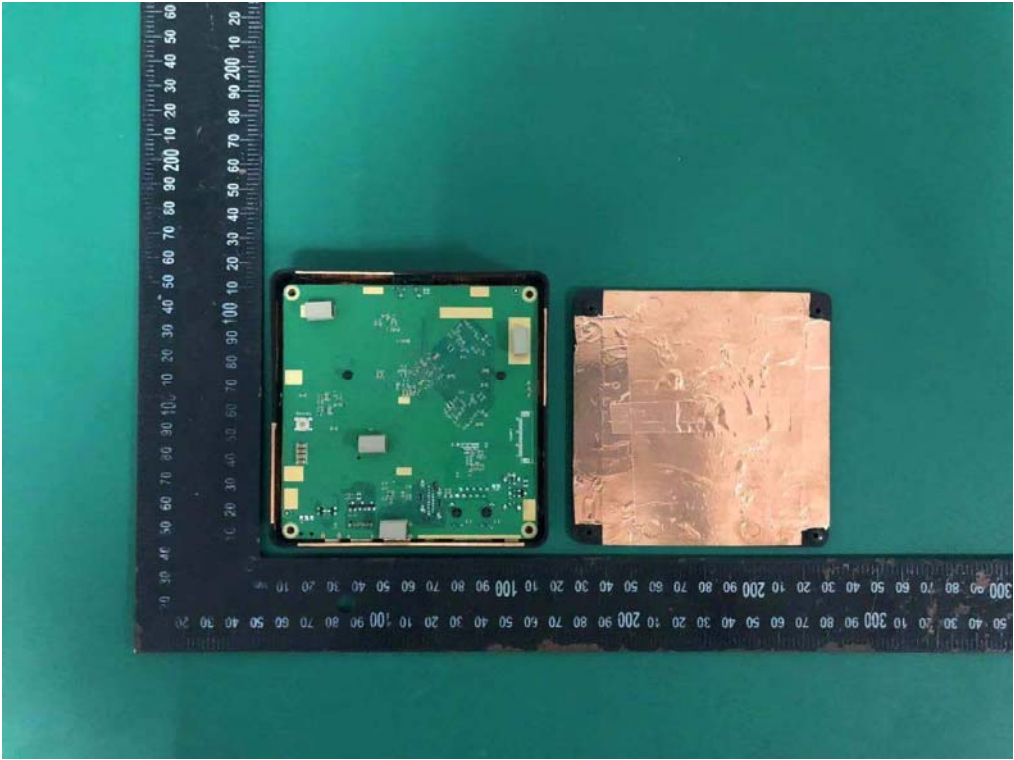
External Photos
M/N: TW6



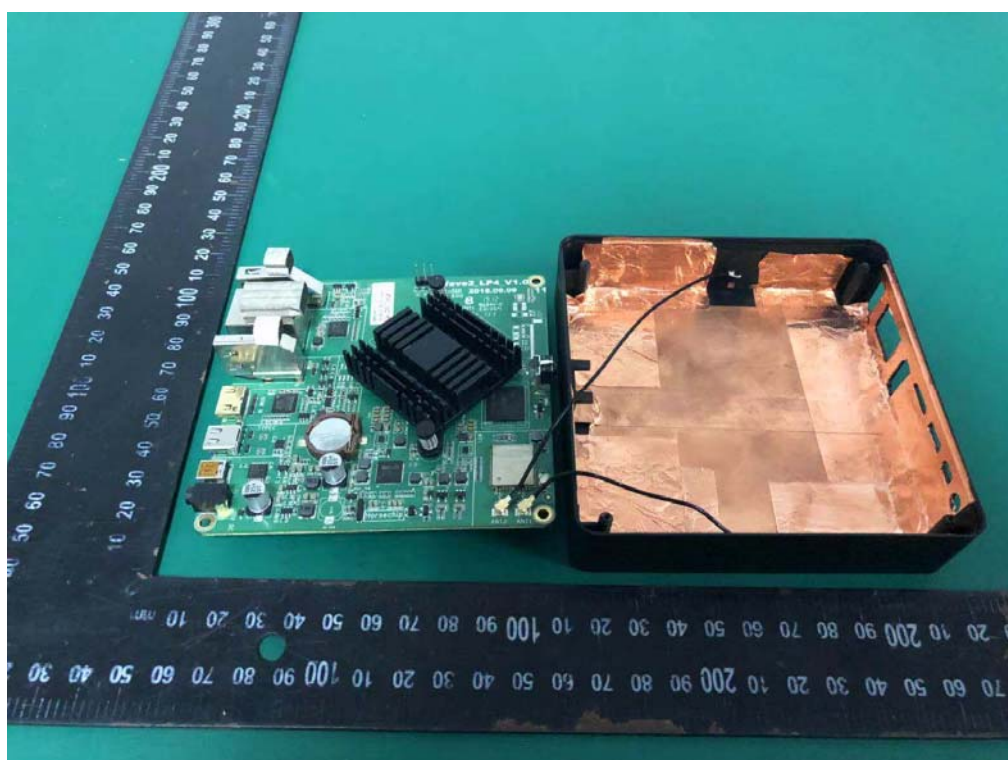
External Photos
M/N: TW6



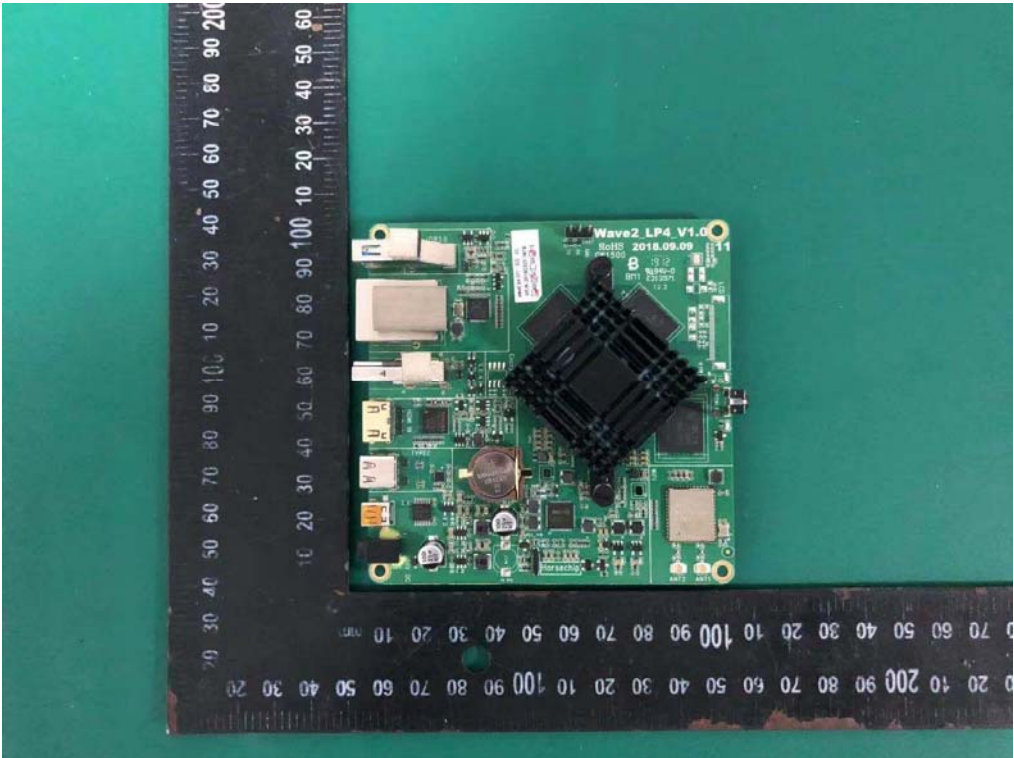
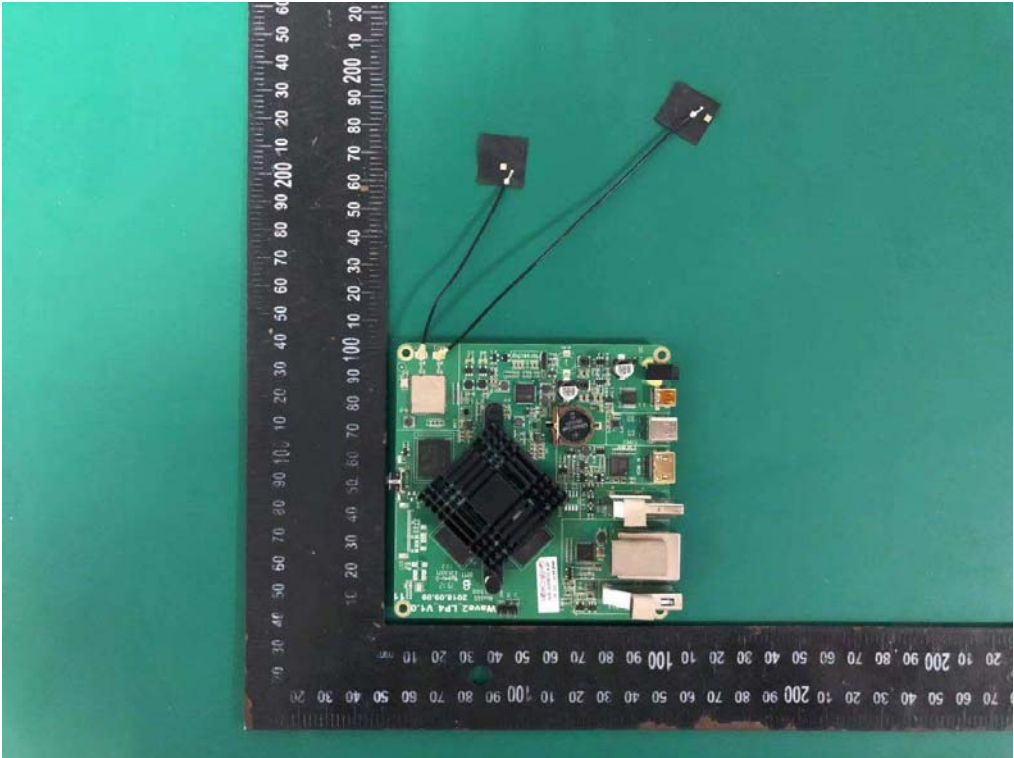
Internal Photos
M/N: TW6



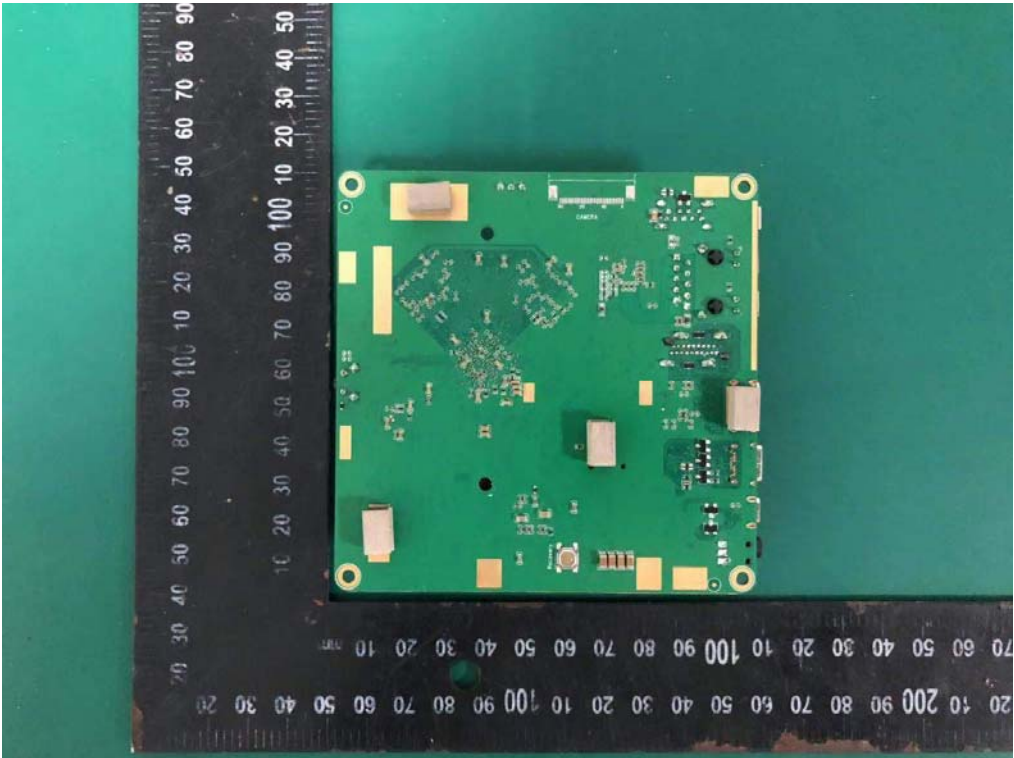
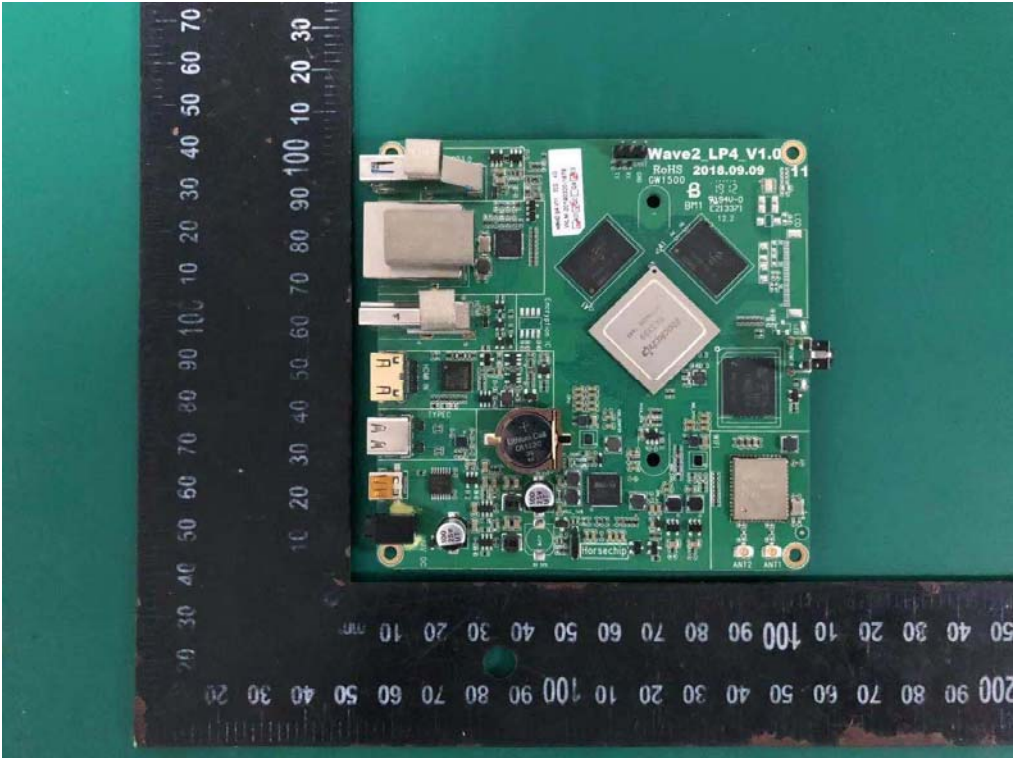
Internal Photos
M/N: TW6



Internal Photos
M/N: TW6

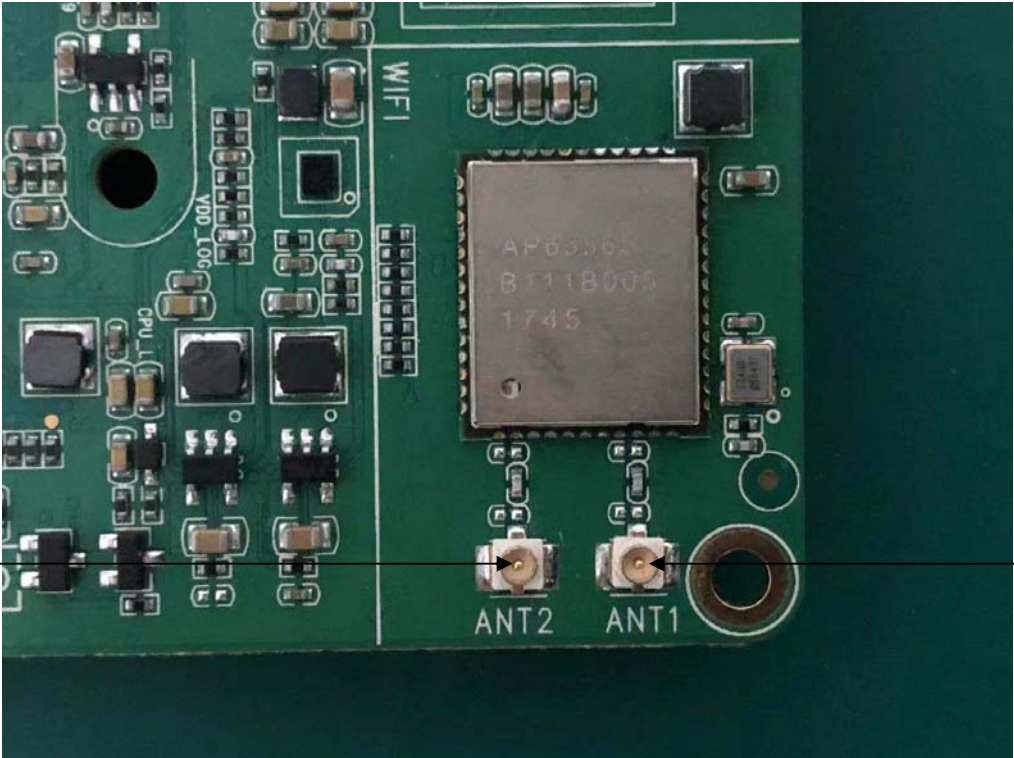


Internal Photos
M/N: TW6



Internal Photos
M/N: TW6

5G Wi-Fi
Antenna 2
Port



5G Wi-Fi
Antenna 1
Port

End of Test Report