



TEST REPORT

Test item description: BL-M7668BU2
Trademark(s): N/A
Model/Type reference: BL-M7668BU2
Applicant's name: KIC Corporation
Address: 1-28-11 SHINJUKU SHINJUKU-KU TOKYO JAPAN
Manufacturer: Shenzhen CLT Electronics Co., Ltd
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Sample Received Date: Jan. 21, 2026
Sample tested Date: Jan. 21, 2026 to Feb. 9, 2026
Issue Date: Feb. 9, 2026
Report No.: CTB26012105401RF04
Test Standards: MIC Notice No.88 Appendix No.45 Item 19-3
Test Results: PASS
Remark: This is 5G WIFI radio test report.

Compiled by:

Reviewed by:

Approved by:

Kai Chen

Martin Feng



Kai Chen

Martin Feng

Bin Mei / Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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1.Version

Report No.	Issue Date	Description	Approved
CTB26012105401RF04	Feb. 9, 2026	Original	Valid

2.TEST PROCEDURES AND RESULTS

Test item	Test Requirement	Limit/Severity	Result
Antenna Requirement	Item 19-3 of Article 2 Paragraph 1	Notice 88 Appendix 43,B-1 (1)&(2)	PASS
Frequency Error	Item 19-3 of Article 2 Paragraph 1	+/-20ppm	PASS
Occupied Bandwidth (99%)	Item 19-3 of Article 2 Paragraph 1	W52: Occupied bandwidth: ≤20MHz (20MHz System, OFDM) Occupied bandwidth: ≤40MHz (40MHz System, OFDM) Occupied bandwidth: ≤80MHz (80MHz System, OFDM)	PASS
Adjacent Channel Emitted Power	Item 19-3 of Article 2 Paragraph 1	802.11a/n20/ac20: $F_c \pm 20\text{MHz} \pm 10\text{MHz BW} : -25\text{dBc}$ $F_c \pm 20\text{MHz} \pm 10\text{MHz BW} : -25\text{dBc}$ 802.11n40/ac40: $F_c \pm 40\text{MHz} \pm 20\text{MHz BW} : -25\text{dBc}$ $F_c \pm 80\text{MHz} \pm 20\text{MHz BW} : -40\text{dBc}$ 802.11ac80: $F_c \pm 80\text{MHz} \pm 40\text{MHz BW} : -25\text{dBc}$	PASS
Antenna Power and Tolerance	Item 19-3 of Article 2 Paragraph 1	(1)10mW/MHz(OFDM, DSSS:20MHz system), (2)5mW/MHz(OFDM:40MHz system), (3)2.5mW/MHz(OFDM:80MHz system), (4)10mW/MHz(except above methods), Tolerance : W52: -80%~+20%, W56:-50%~+50%.	PASS
Unwanted Emission Strength	Item 19-3 of Article 2 Paragraph 1	Attachment 1	PASS
Interference Prevention Function	Item 19-3 of Article 2 Paragraph 1	Article 49	PASS
Carrier sense capability	Item 19-3 of Article 2 Paragraph 1	Article 49	PASS
Construction Protection Confirmation	Item 19-3 of Article 2 Paragraph 1	Article 49	PASS
Transmission Burst Length	Item 19-3 of Article 2 Paragraph 1	8ms or less	PASS
Secondary Radiated Emission Strength	Item 19-3 of Article 2 Paragraph 1	(1)Below 1GHz:4nW/100kHz or less (2)1GHz or higher:20nW/MHz or less	PASS

Dynamic Frequency selection(DFS)	Item 19-3 of Article 2 Paragraph 1	WAS/RLAN devices operating in slave mode (slave device) can be operated in a network controlled by aWAN/RLAN device operating in master mode (master device).	N/A
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3.MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Parameter	Uncertainty
Frequency error / 99%&90% bandwidth	±54.3Hz
Total RF power, conducted	±1.0dB
Spurious emissions, conducted	±2.8dB
DC and low frequency voltages	±3%
Humidity	±5.3%
Temperature	±0.59℃

4.GENERAL INFORMATION

4.1 GENERAL DESCRIPTION OF EUT

Model/Type reference:	BL-M7668BU2
Model Description:	N/A
Wi-Fi Specification:	IEEE 802.11a/n/ac
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel 802.11a: 4mW/MHz 802.11ac(VHT20): 5mW/MHz
Rate Output power:	802.11n(VHT20): 5mW/MHz 802.11n(HT40): 3mW/MHz 802.11ac(VHT40): 3mW/MHz 802.11ac80: 1mW/MHz
Type of Modulation:	OFDM
Antenna installation:	FPC antenna
Antenna Gain:	Ant 1: 3.75dBi Ant 2: 3.75dBi
Ratings:	DC 3.3V

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

4.2 Channel list

For 802.11a/n/ac(20M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
36	5180MHz	44	5220MHz
40	5200MHz	48	5240MHz
For 802.11n/ac(40M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz
For 802.11ac(80M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
42	5210MHz	NA	NA

4.3Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Gain(dBi)	NOTE
1	N/A	5.2G antenna	FPC antenna	3.75dBi	N/A
2	N/A	5.2G antenna	FPC antenna	3.75dBi	N/A

4.4 DESCRIPTION OF TEST MODES

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11a/n/ac(20M)	5150MHz ~5250 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
802.11n/ac(40M)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
802.11ac(80M)	5150MHz ~5250 MHz	N/A	Channel 42	N/A
		N/A	5210MHz	N/A

4.5 TEST CONDITIONS

Supply Voltage					
	Adapter power V	Module input power V	Rated module power V	Tolerance (%)	
Normal	3.3	3.3	3.3		
+10%	3.63	3.3	3.3		0
-10%	2.97	3.3	3.3		0
Others					
Temperature (°C)		20-25			
Relative humidity		54 %.			
ATM Pressure:		1010 mbar			
Note 1: When the input voltage is reduced or increased by 10%, the regulator voltage changes of less than 1%. So the following test items are conducted in the normal voltage.					

4.6 Block diagram showing the configuration of system tested

Transmitting mode



4.7 DESCRIPTION OF SUPPORT UNITS(CONDUCTEDMODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Test item description	Trademark(s)	Model/Type reference	Note
1	BL-M7668BU2	N/A	BL-M7668BU2	EUT
Item	Shielded Type	Ferrite Core	Length	Note

Note:

1. The support equipment was authorized by Declaration of Confirmation.
2. For detachable type I/O cable should be specified the length in cm in 『Length』 column.
3. “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

4.8 MEASUREMENT INSTRUMENTS LIST

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2026/6/27
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2026/6/27
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2026/6/27
4	Communication test set	R&S	CMW500	108058	V3.5.80	2026/6/27
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2026/6/27
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2026/6/27
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2026/6/27
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2026/6/27
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2026/6/29
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2026/6/29
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2026/6/29
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2026/6/27
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2026/6/27
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/
16	966 chamber	C.R.T.	966	/	/	2027/6/21
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2026/6/27
18	Amplifier	HP	8447E	2945A02747	/	2026/6/27

19	Amplifier	Agilent	8449B	3008A01838	/	2026/6/27
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2026/6/27
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2026/6/27
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2026/6/27
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2026/6/27
26	Amplifier	AEROFLEX	Aeroflex	097	/	2026/6/27
27	Power Meter	KEYSIGHT	N1912AP	N/A	A.05.00	2026/6/27
28	DC power supply	Agilent	E3640A	MY53050046	/	2026/6/27

Remark: Calibration institution "GRG METROLOGY & TEST GROUP Co., LTD."

Remark: Calibration based on Article 24-2, paragraph 4 of the Radio Act method c.

5. Antenna Requirement

Standard requirement
Applicable for equipment with an antenna terminal, including testing terminals) If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.
EUT Antenna
The best case gain of the antenna is ANT1: 3.75dBi, ANT2: 3.75dBi. internal antenna
Result: An antenna connector is available; all relevant tests will be carried out conducted.

6. Frequency Error

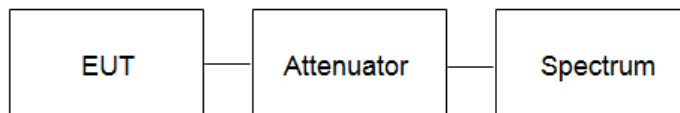
6.1 LIMIT

Item	Limits
Frequency Error	+/-20ppm

6.2 TEST PROCEDURE

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW=10kHz, VBW=10 kHz, Span = 1MHz.
- 4 'Maximum Hold'mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
5. Repeat above procedures until all frequency measured was complete.

6.3 Test Setup Block Diagram



6.4 TEST RESULT

ANT 1

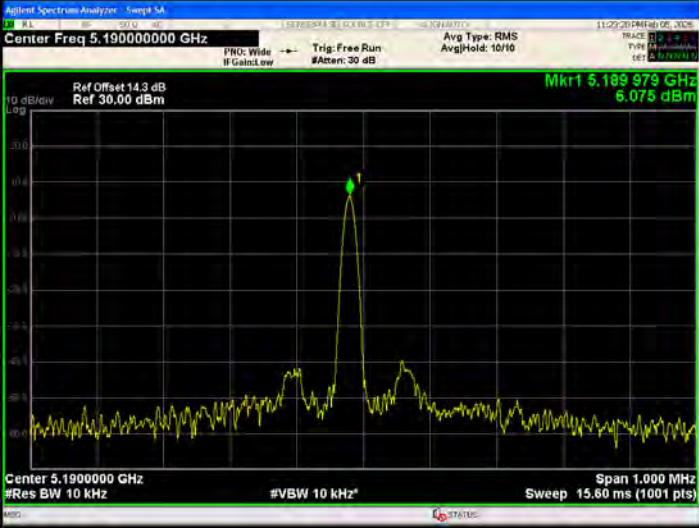
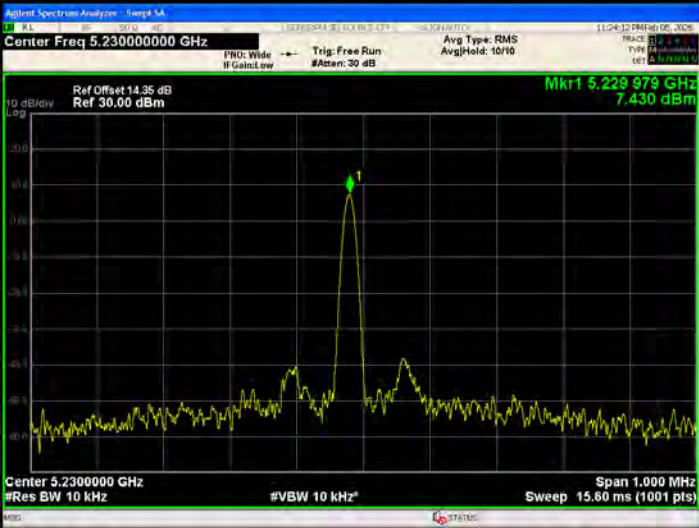
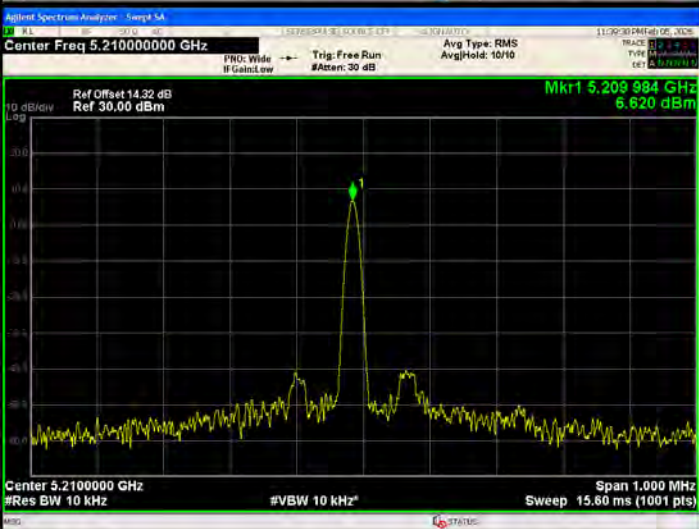
Test condition	Test Frequency	Measured	Tolerance	Test Result	Limit
	MHz	MHz	MHz	ppm	ppm
NVNT W52	5180	5179.979	-0.021	-4.054	+/-20
	5200	5199.979	-0.021	-4.038	+/-20
	5240	5239.979	-0.021	-4.008	+/-20
	5190	5189.979	-0.021	-4.046	+/-20
	5230	5229.979	-0.021	-4.015	+/-20
	5210	5209.984	-0.016	-3.071	+/-20

ANT 2

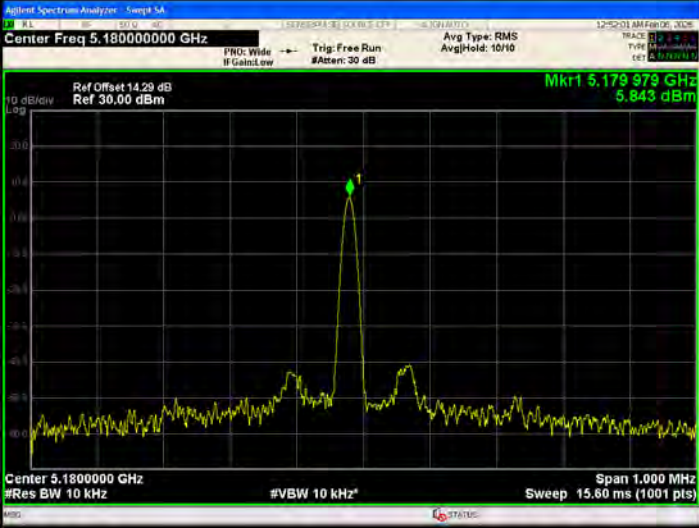
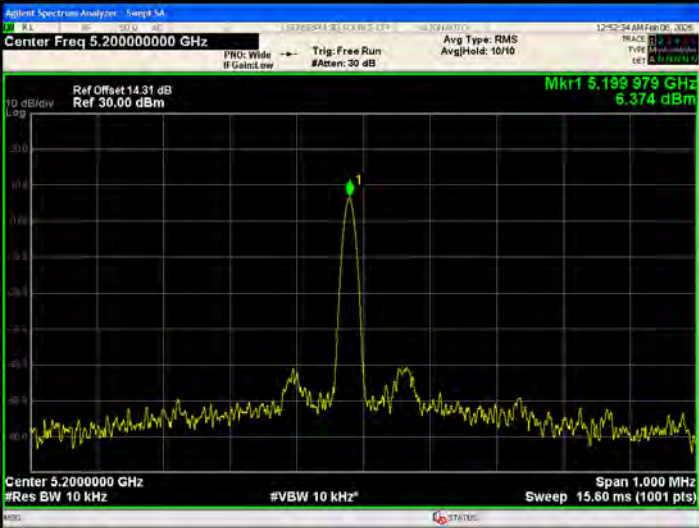
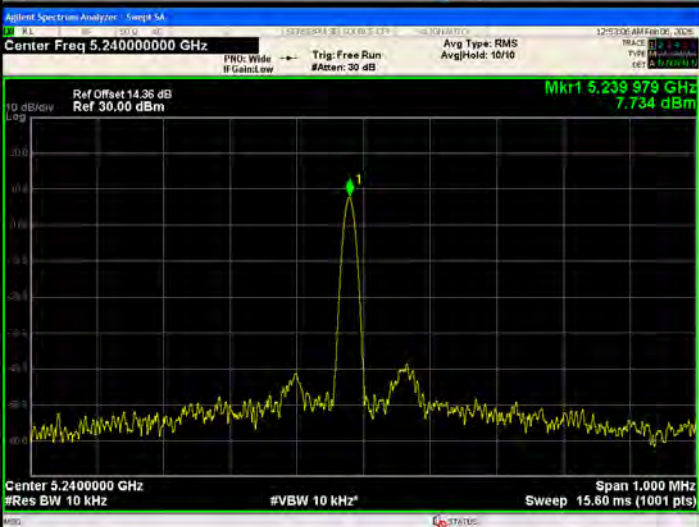
Test condition	Test Frequency	Measured	Tolerance	Test Result	Limit
	MHz	MHz	MHz	ppm	ppm
NVNT W52	5180	5179.979	-0.021	-4.054	+/-20
	5200	5199.979	-0.021	-4.038	+/-20
	5240	5239.979	-0.021	-4.008	+/-20
	5190	5189.979	-0.021	-4.046	+/-20
	5230	5229.979	-0.021	-4.015	+/-20
	5210	5209.979	-0.021	-4.031	+/-20

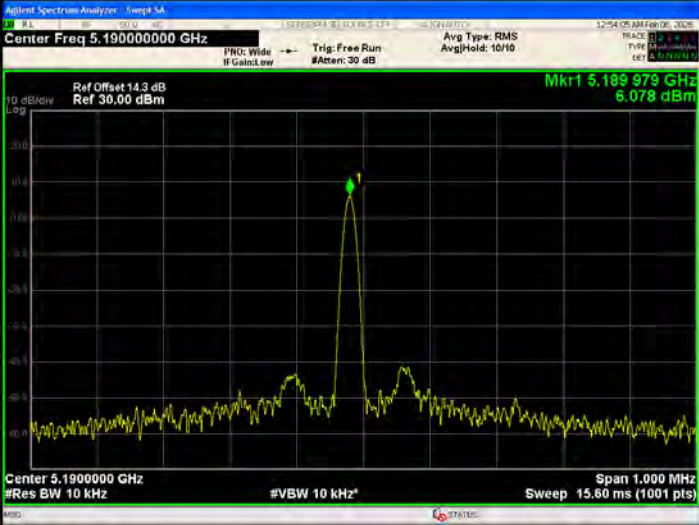
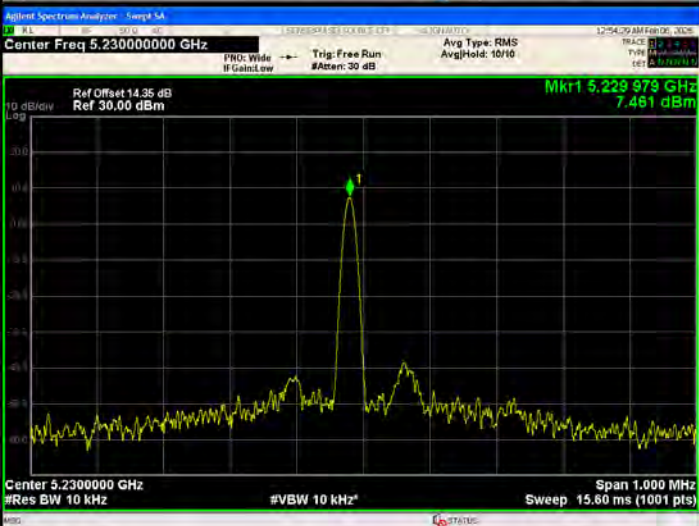
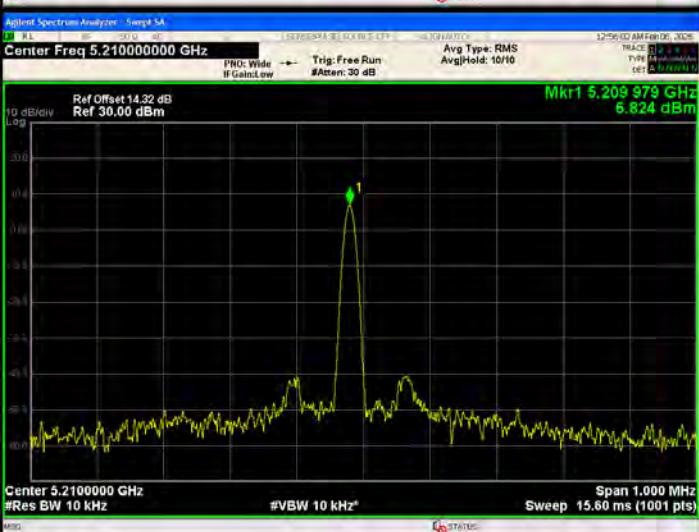
Test graph

Channel(MHz)	Test graph
5180	Agilent Spectrum Analyzer - Sweep 54 Center Freq 5.18000000 GHz Ref Offset 14.29 dB Ref 30.00 dBm Span 1.000 MHz Sweep 15.60 ms (1001 pts) Mkr1 5.179 979 GHz 5.887 dBm
5200	Agilent Spectrum Analyzer - Sweep 54 Center Freq 5.20000000 GHz Ref Offset 14.31 dB Ref 30.00 dBm Span 1.000 MHz Sweep 15.60 ms (1001 pts) Mkr1 5.199 979 GHz 6.385 dBm
5240	Agilent Spectrum Analyzer - Sweep 54 Center Freq 5.24000000 GHz Ref Offset 14.36 dB Ref 30.00 dBm Span 1.000 MHz Sweep 15.60 ms (1001 pts) Mkr1 5.239 979 GHz 7.718 dBm

Channel(MHz)	Test graph
5190	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.19000000 GHz Ref Offset 14.3 dB Ref 30.00 dBm Mkr1 5.189 979 GHz 6.075 dBm Center 5.1900000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)
5230	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.23000000 GHz Ref Offset 14.35 dB Ref 30.00 dBm Mkr1 5.229 979 GHz 7.430 dBm Center 5.2300000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)
5210	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.21000000 GHz Ref Offset 14.32 dB Ref 30.00 dBm Mkr1 5.209 984 GHz 6.620 dBm Center 5.2100000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)

NVNT-ANT 2 W52

Channel(MHz)	Test graph
5180	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.180000000 GHz Ref Offset 14.29 dB Ref 30.00 dBm Mkr1 5.179 979 GHz 5.843 dBm Center 5.1800000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1,000 MHz Sweep 15.60 ms (1001 pts)
5200	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.200000000 GHz Ref Offset 14.31 dB Ref 30.00 dBm Mkr1 5.199 979 GHz 6.374 dBm Center 5.2000000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1,000 MHz Sweep 15.60 ms (1001 pts)
5240	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.240000000 GHz Ref Offset 14.36 dB Ref 30.00 dBm Mkr1 5.239 979 GHz 7.734 dBm Center 5.2400000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1,000 MHz Sweep 15.60 ms (1001 pts)

Channel(MHz)	Test graph
5190	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.19000000 GHz Ref Offset 14.3 dB Ref 30.00 dBm Mkr1 5.189 979 GHz 6.078 dBm Center 5.1900000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1,000 MHz Sweep 15.60 ms (1001 pts)
5230	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.23000000 GHz Ref Offset 14.35 dB Ref 30.00 dBm Mkr1 5.229 979 GHz 7.481 dBm Center 5.2300000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1,000 MHz Sweep 15.60 ms (1001 pts)
5210	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.21000000 GHz Ref Offset 14.32 dB Ref 30.00 dBm Mkr1 5.209 979 GHz 6.824 dBm Center 5.2100000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1,000 MHz Sweep 15.60 ms (1001 pts)

7. Occupied Bandwidth (99%)

7.1 LIMIT

W52:

Occupied bandwidth: $\leq 18\text{MHz}$ (20MHz System, DSSS)

Occupied bandwidth: $\leq 20\text{MHz}$ (20MHz System, OFDM)

Occupied bandwidth: $\leq 40\text{MHz}$ (40MHz System, OFDM)

Occupied bandwidth: $\leq 80\text{MHz}$ (80MHz System, OFDM)

7.2 TEST PROCEDURE

(1) Set up the spectrum analyzer as the follows:

Center frequency: Test frequency

Sweep bandwidth: 2 to 3.5 times of allowance

Resoluble bandwidth: less than 3% of allowance

Video bandwidth: Equivalent to resolvable bandwidth

Sweep time: Minimum time by which measuring accuracy is assured (In case of burst wave, 1 burst shall be contained per 1 sample)

Sampling points: More than 400 points

Sweep mode: Continuous sweeping

Detection mode: Positive peak

Display mode: Maximum holding

(2) Repeat the sweeping till no change was observed on the display and enter all values of data point to the computer as array variable.

(3) About all data, convert dB value to antilogarithm of electric power dimension.

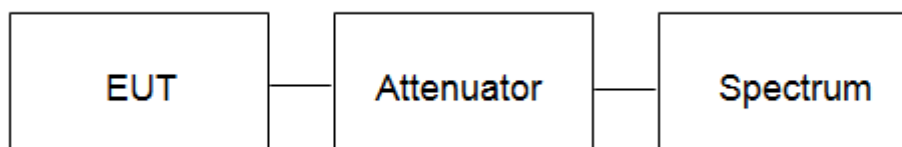
(4) Add up the electric power of all data and record it as "Sum total of electric power".

(5) Adding up data in order from the lowest frequency to upper frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Lowest limit frequency".

(6) Adding up data in order from the highest frequency to lower frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Highest limit frequency".

(7) Repeat above procedures until all frequency measured was complete.

7.3 TEST SETUP BLOCK DIAGRAM



7.4 TEST RESULT

W52 ANT 1

Normal Voltage			
Mode	Channel (MHz)	Occupy Bandwidth (MHz)	Limit (MHz)
802.11a	LCH	16.600	≤18
	MCH	16.501	
	HCH	16.501	
802.11ac(VHT20)	LCH	17.706	≤20
	MCH	17.768	
	HCH	17.708	
802.11ac(VHT40)	LCH	36.679	≤40
	MCH	/	
	HCH	37.157	
802.11ac(VHT80)	LCH	/	≤80
	MCH	75.707	
	HCH	/	
802.11n(HT20)	LCH	17.754	≤20
	MCH	17.721	
	HCH	17.657	
802.11n(HT40)	LCH	36.419	≤40
	MCH	/	
	HCH	36.373	
Result	Pass		

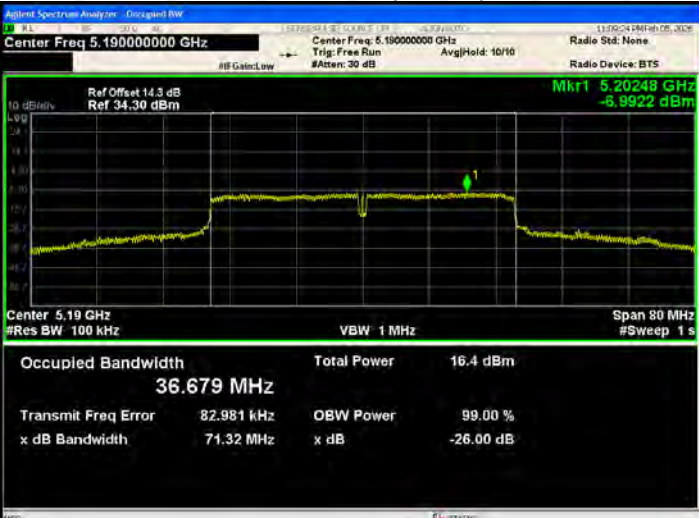
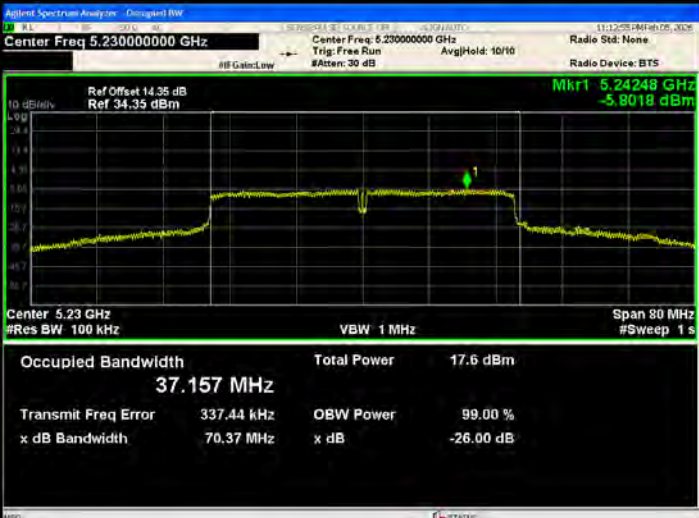
W52 ANT 2

Normal Voltage			
Mode	Channel (MHz)	Occupy Bandwidth (MHz)	Limit (MHz)
802.11a	LCH	16.563	≤18
	MCH	16.531	
	HCH	16.458	
802.11ac(VHT20)	LCH	17.670	≤20
	MCH	17.669	
	HCH	17.657	
802.11ac(VHT40)	LCH	36.496	≤40
	MCH	/	
	HCH	36.441	
802.11ac(VHT80)	LCH	/	≤80
	MCH	75.641	
	HCH	/	
802.11n(HT20)	LCH	17.714	≤20
	MCH	17.692	
	HCH	17.644	
802.11n(HT40)	LCH	36.350	≤40
	MCH	/	
	HCH	36.337	
Result	Pass		

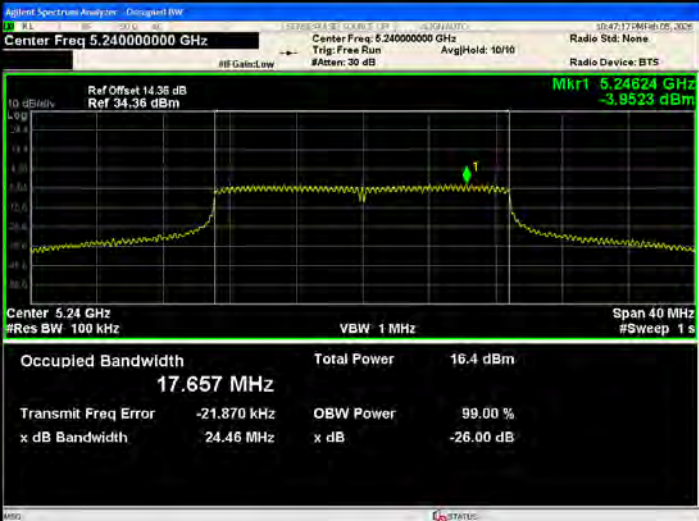
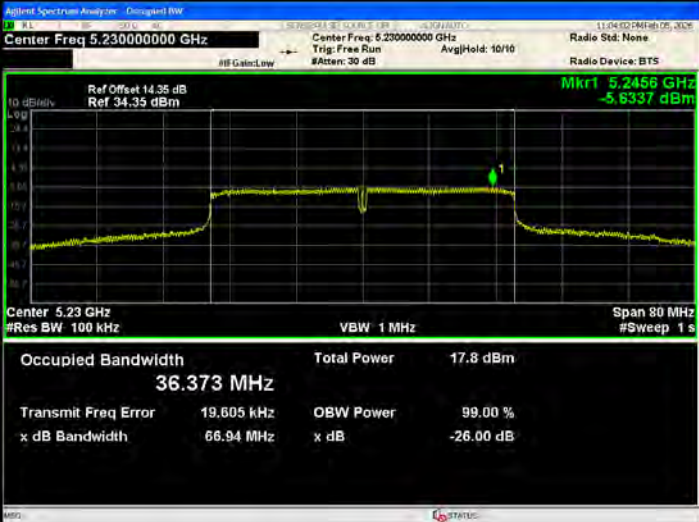
ANT 1

Channel(MHz)	W52:802.11a
5180	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Ref Offset 14.23 dB Ref 34.29 dBm Mkr1 5.18684 GHz -4.2673 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.600 MHz Total Power 15.9 dBm Transmit Freq Error -43.668 kHz OBW Power 99.00 % x dB Bandwidth 30.76 MHz x dB -26.00 dB
5200	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Ref Offset 14.31 dB Ref 34.31 dBm Mkr1 5.20684 GHz -4.5104 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.501 MHz Total Power 15.4 dBm Transmit Freq Error -31.010 kHz OBW Power 99.00 % x dB Bandwidth 24.47 MHz x dB -26.00 dB
5240	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Ref Offset 14.36 dB Ref 34.36 dBm Mkr1 5.24684 GHz -3.7104 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.501 MHz Total Power 16.6 dBm Transmit Freq Error -29.418 kHz OBW Power 99.00 % x dB Bandwidth 25.70 MHz x dB -26.00 dB

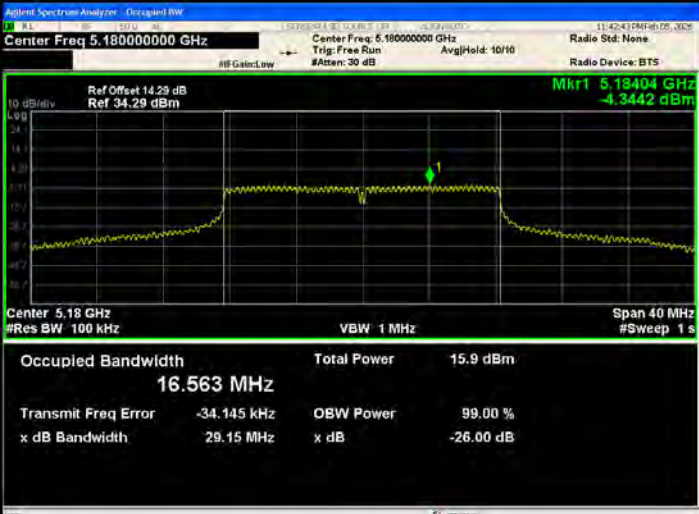
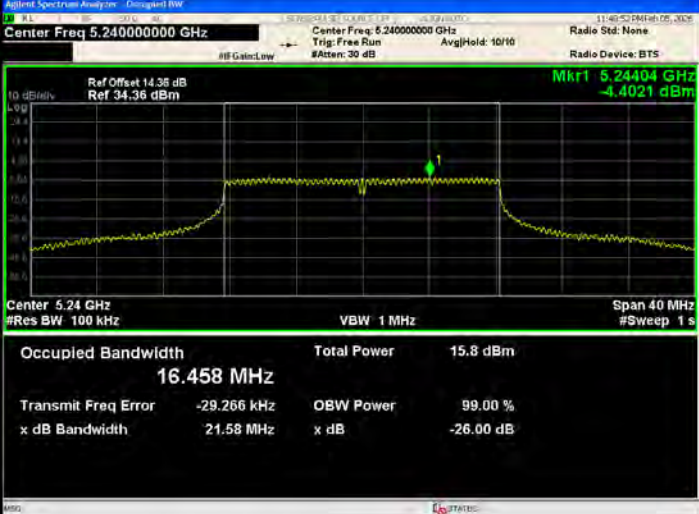
Channel(MHz)	W52:802.11ac(HT20)
5180	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Ref Offset 14.29 dB Ref 34.29 dBm Mkr1 5.1856 GHz -4.9410 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.706 MHz Total Power 15.3 dBm Transmit Freq Error -28.436 kHz OBW Power 99.00 % x dB Bandwidth 29.41 MHz x dB -26.00 dB
5200	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Ref Offset 14.31 dB Ref 34.31 dBm Mkr1 5.2056 GHz -3.5038 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.768 MHz Total Power 16.7 dBm Transmit Freq Error -12.316 kHz OBW Power 99.00 % x dB Bandwidth 33.14 MHz x dB -26.00 dB
5240	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Ref Offset 14.36 dB Ref 34.36 dBm Mkr1 5.2456 GHz -3.1949 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.708 MHz Total Power 17.1 dBm Transmit Freq Error -22.148 kHz OBW Power 99.00 % x dB Bandwidth 29.43 MHz x dB -26.00 dB

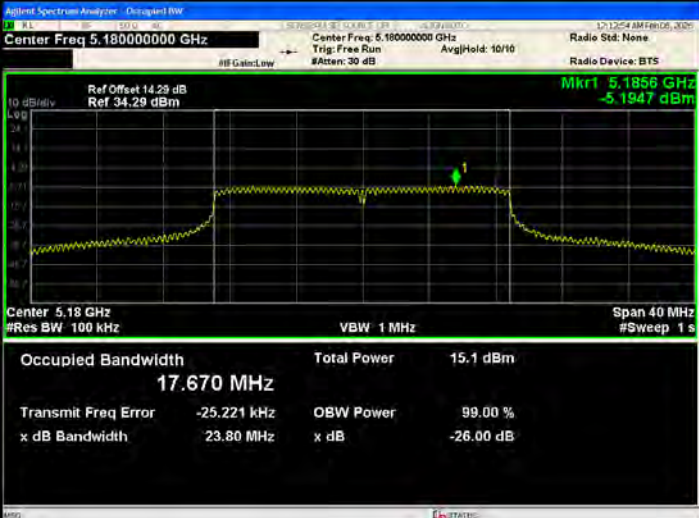
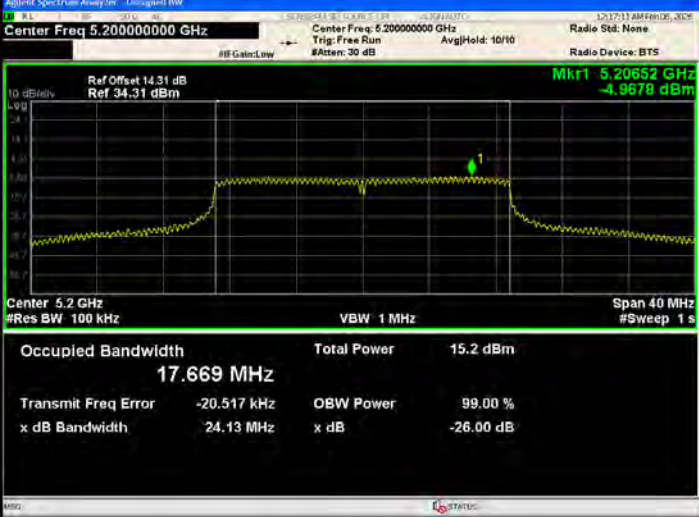
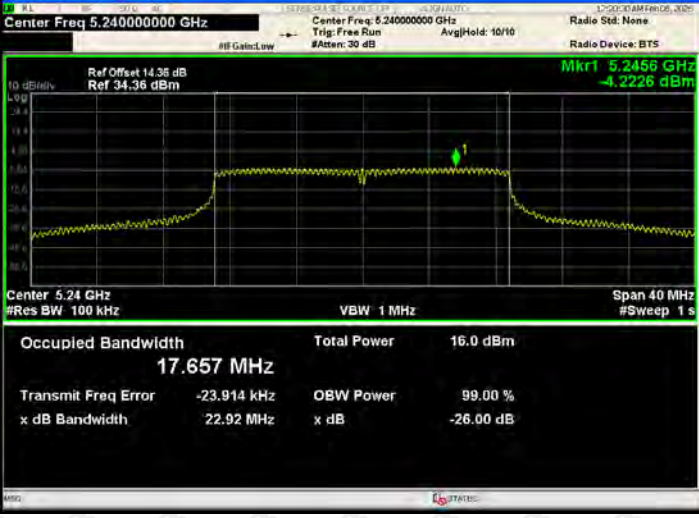
Channel(MHz)	W52:802.11ac(VHT40)
5190	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.190000000 GHz Ref Offset 14.3 dB Ref 34.30 dBm Mkr1 5.20248 GHz -6.9922 dBm Center 5.19 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 36.679 MHz Total Power 16.4 dBm Transmit Freq Error 82.981 kHz OBW Power 99.00 % x dB Bandwidth 71.32 MHz x dB -26.00 dB
5230	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.230000000 GHz Ref Offset 14.35 dB Ref 34.35 dBm Mkr1 5.24248 GHz -5.8018 dBm Center 5.23 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 37.157 MHz Total Power 17.6 dBm Transmit Freq Error 337.44 kHz OBW Power 99.00 % x dB Bandwidth 70.37 MHz x dB -26.00 dB

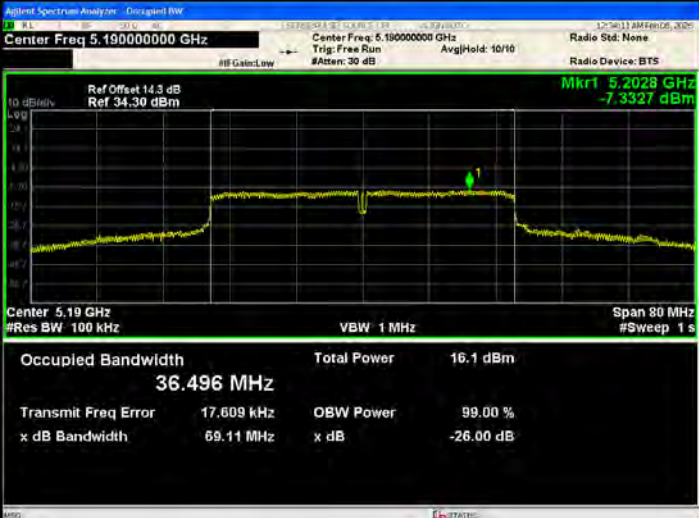
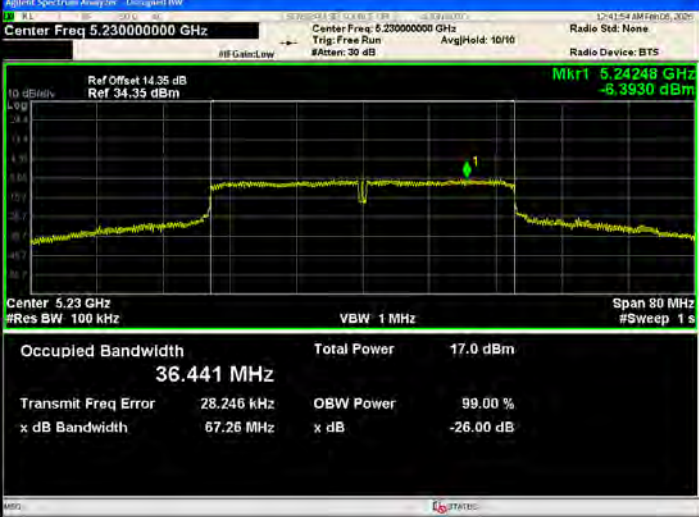
Channel(MHz)	W52:802.11ac (VHT80)
5210	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.210000000 GHz Ref Offset 14.32 dB Ref 34.32 dBm Mkr1 5.23688 GHz -8.7497 dBm Center 5.21 GHz #Res BW 100 kHz VBW 1 MHz Span 160 MHz #Sweep 1 s Occupied Bandwidth 75.707 MHz Total Power 16.4 dBm Transmit Freq Error 144.89 kHz OBW Power 99.00 % x dB Bandwidth 101.4 MHz x dB -26.00 dB
Channel(MHz)	W52:802.11n(HT20)
5180	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Ref Offset 14.29 dB Ref 34.29 dBm Mkr1 5.1856 GHz -4.0649 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.754 MHz Total Power 16.2 dBm Transmit Freq Error -18.088 kHz OBW Power 99.00 % x dB Bandwidth 31.03 MHz x dB -26.00 dB
5200	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Ref Offset 14.31 dB Ref 34.31 dBm Mkr1 5.20624 GHz -3.7743 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.721 MHz Total Power 16.5 dBm Transmit Freq Error -12.532 kHz OBW Power 99.00 % x dB Bandwidth 31.27 MHz x dB -26.00 dB

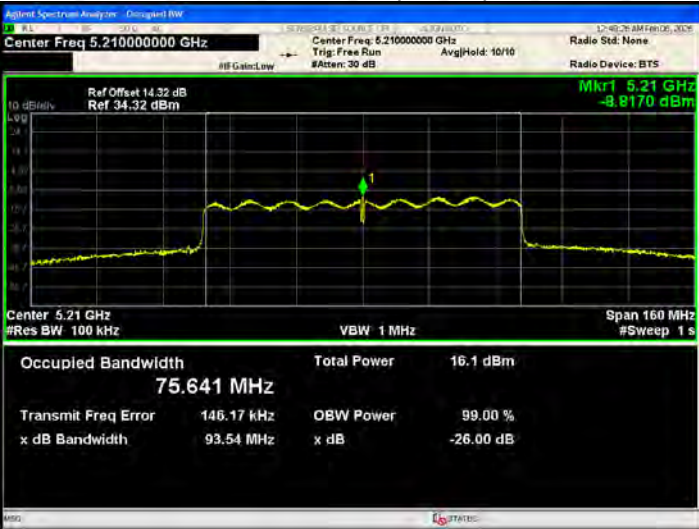
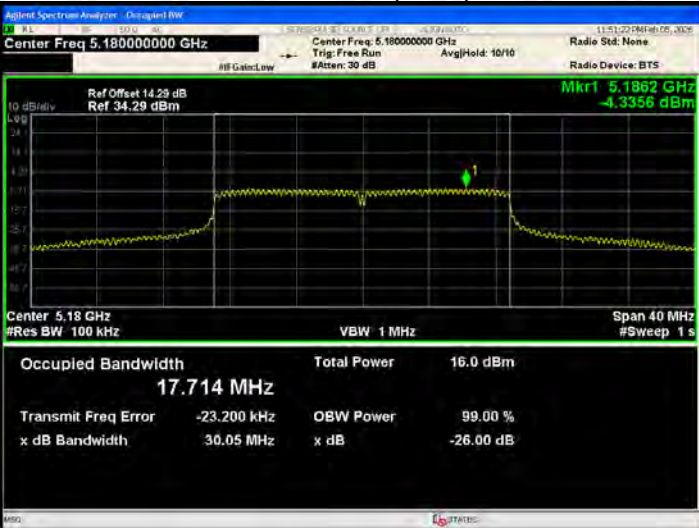
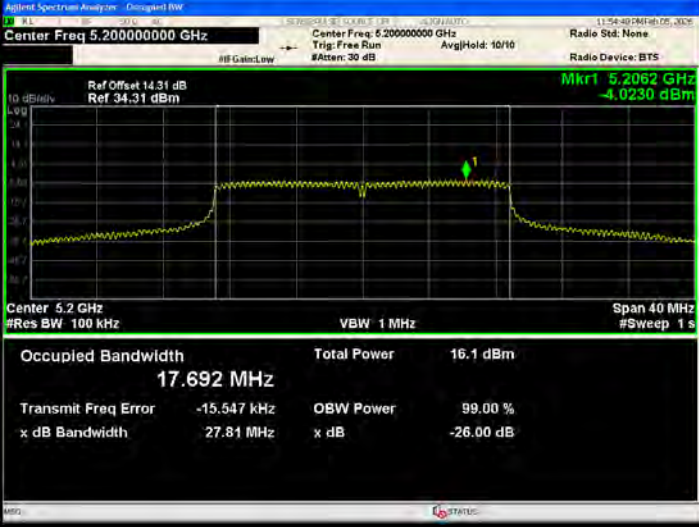
5240	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.24000000 GHz Ref Offset 14.35 dB Ref 34.36 dBm Mkr1 5.24824 GHz -3.9523 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.657 MHz Total Power 16.4 dBm Transmit Freq Error -21.870 kHz OBW Power 99.00 % x dB Bandwidth 24.46 MHz x dB -26.00 dB
Channel(MHz)	W52:802.11n(HT40)
5190	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.19000000 GHz Ref Offset 14.5 dB Ref 34.30 dBm Mkr1 5.2056 GHz -5.4905 dBm Center 5.19 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 36.419 MHz Total Power 16.8 dBm Transmit Freq Error 14.663 kHz OBW Power 99.00 % x dB Bandwidth 73.47 MHz x dB -26.00 dB
5230	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.23000000 GHz Ref Offset 14.35 dB Ref 34.35 dBm Mkr1 5.2456 GHz -5.5337 dBm Center 5.23 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 36.373 MHz Total Power 17.8 dBm Transmit Freq Error 19.605 kHz OBW Power 99.00 % x dB Bandwidth 66.94 MHz x dB -26.00 dB

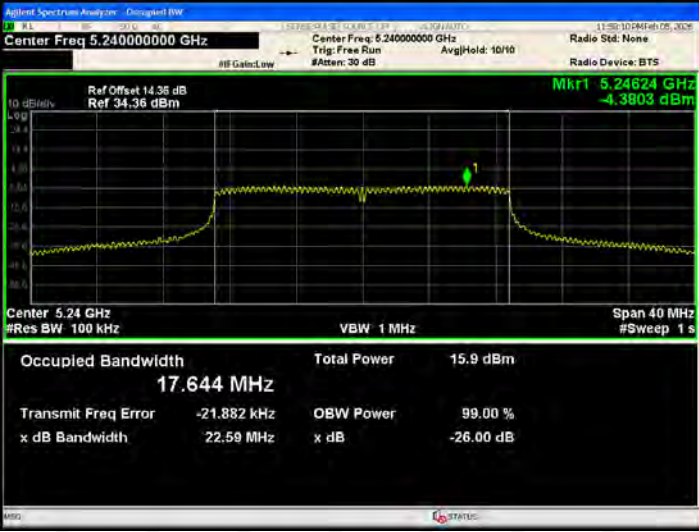
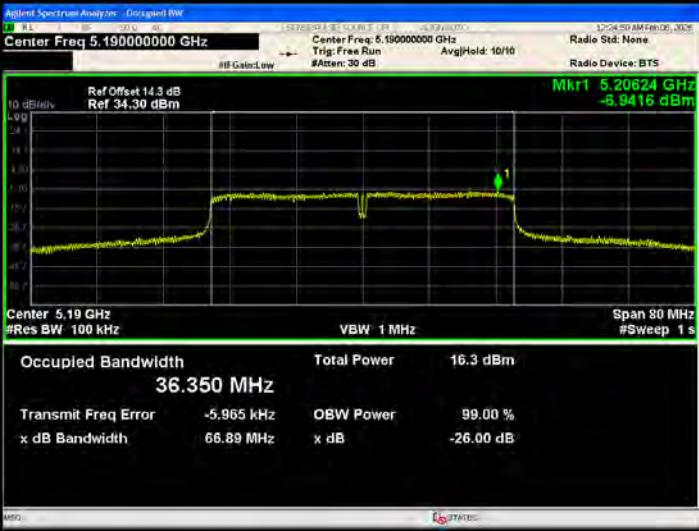
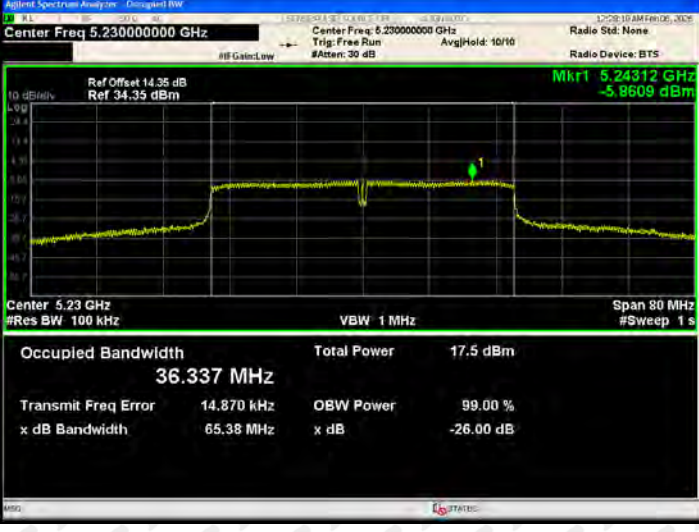
ANT 2

Channel(MHz)	W52:802.11a
5180	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Ref Offset 14.23 dB Ref 34.29 dBm Mkr1 5.18404 GHz -4.3442 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.563 MHz Total Power 15.9 dBm Transmit Freq Error -34.145 kHz OBW Power 99.00 % x dB Bandwidth 29.15 MHz x dB -26.00 dB
5200	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Ref Offset 14.31 dB Ref 34.31 dBm Mkr1 5.20684 GHz -3.7957 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.531 MHz Total Power 16.2 dBm Transmit Freq Error -26.101 kHz OBW Power 99.00 % x dB Bandwidth 26.29 MHz x dB -26.00 dB
5240	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Ref Offset 14.36 dB Ref 34.36 dBm Mkr1 5.24404 GHz -4.4021 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.458 MHz Total Power 15.8 dBm Transmit Freq Error -29.266 kHz OBW Power 99.00 % x dB Bandwidth 21.58 MHz x dB -26.00 dB

Channel(MHz)	W52:802.11ac(HT20)
5180	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Ref Offset 14.29 dB Ref 34.29 dBm Mkr1 5.1856 GHz -5.1947 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.670 MHz Total Power 15.1 dBm Transmit Freq Error -25.221 kHz OBW Power 99.00 % x dB Bandwidth 23.80 MHz x dB -26.00 dB
5200	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Ref Offset 14.31 dB Ref 34.31 dBm Mkr1 5.20652 GHz -4.9678 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.669 MHz Total Power 15.2 dBm Transmit Freq Error -20.517 kHz OBW Power 99.00 % x dB Bandwidth 24.13 MHz x dB -26.00 dB
5240	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Ref Offset 14.36 dB Ref 34.36 dBm Mkr1 5.2456 GHz -4.2226 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.657 MHz Total Power 16.0 dBm Transmit Freq Error -23.914 kHz OBW Power 99.00 % x dB Bandwidth 22.92 MHz x dB -26.00 dB

Channel(MHz)	W52:802.11ac(VHT40)
5190	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.190000000 GHz Center Freq: 5.190000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 14.3 dB Ref 34.30 dBm Mkr1 5.2028 GHz -7.3327 dBm Center 5.19 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 36.496 MHz Total Power 16.1 dBm Transmit Freq Error 17.609 kHz OBW Power 99.00 % x dB Bandwidth 69.11 MHz x dB -26.00 dB
5230	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.230000000 GHz Center Freq: 5.230000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 14.35 dB Ref 34.35 dBm Mkr1 5.24248 GHz -8.3930 dBm Center 5.23 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 36.441 MHz Total Power 17.0 dBm Transmit Freq Error 28.246 kHz OBW Power 99.00 % x dB Bandwidth 67.26 MHz x dB -26.00 dB

Channel(MHz)	W52:802.11ac (VHT80)
5210	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.210000000 GHz Ref Offset 14.32 dB Ref 34.32 dBm Mkr1 5.21 GHz -8.9170 dBm Center 5.21 GHz #Res BW 100 kHz VBW 1 MHz Span 160 MHz #Sweep 1 s Occupied Bandwidth 75.641 MHz Total Power 16.1 dBm Transmit Freq Error 146.17 kHz OBW Power 99.00 % x dB Bandwidth 93.54 MHz x dB -26.00 dB
Channel(MHz)	W52:802.11n(HT20)
5180	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Ref Offset 14.29 dB Ref 34.29 dBm Mkr1 5.1862 GHz -4.3356 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.714 MHz Total Power 16.0 dBm Transmit Freq Error -23.200 kHz OBW Power 99.00 % x dB Bandwidth 30.05 MHz x dB -26.00 dB
5200	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Ref Offset 14.31 dB Ref 34.31 dBm Mkr1 5.2062 GHz -4.0230 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.692 MHz Total Power 16.1 dBm Transmit Freq Error -15.547 kHz OBW Power 99.00 % x dB Bandwidth 27.81 MHz x dB -26.00 dB

5240	 Center Freq 5.24000000 GHz Ref Offset 14.35 dB Ref 34.36 dBm Mkr1 5.24624 GHz -4.3803 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.644 MHz Total Power 15.9 dBm Transmit Freq Error -21.882 kHz OBW Power 99.00 % x dB Bandwidth 22.59 MHz x dB -26.00 dB
Channel(MHz)	W52:802.11n(HT40)
5190	 Center Freq 5.19000000 GHz Ref Offset 14.5 dB Ref 34.30 dBm Mkr1 5.20624 GHz -5.9416 dBm Center 5.19 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 36.350 MHz Total Power 16.3 dBm Transmit Freq Error -5.965 kHz OBW Power 99.00 % x dB Bandwidth 66.89 MHz x dB -26.00 dB
5230	 Center Freq 5.23000000 GHz Ref Offset 14.35 dB Ref 34.35 dBm Mkr1 5.24312 GHz -5.9609 dBm Center 5.23 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 36.337 MHz Total Power 17.5 dBm Transmit Freq Error 14.870 kHz OBW Power 99.00 % x dB Bandwidth 65.38 MHz x dB -26.00 dB

8. Adjacent Channel Emitted Power

8.1 LIMIT

W52

For system OBW<20MHz

$F_c \pm 20\text{MHz} \pm 10\text{MHz BW} : -25\text{dBc}$

$F_c \pm 40\text{MHz} \pm 10\text{MHz BW} : -40\text{dBc}$

For system OBW≤20MHz

$F_c \pm 20\text{MHz} \pm 10\text{MHz BW} : -25\text{dBc}$

$F_c \pm 40\text{MHz} \pm 10\text{MHz BW} : -40\text{dBc}$

For system OBW≤40MHz

$F_c \pm 40\text{MHz} \pm 20\text{MHz BW} : -25\text{dBc}$

$F_c \pm 80\text{MHz} \pm 20\text{MHz BW} : -40\text{dBc}$

For system OBW≤80MHz

$F_c \pm 80\text{MHz} \pm 40\text{MHz BW} : -25\text{dBc}$

For system OBW≤80MHz +80MHz (Not adjacent band)

$F_c \pm 80\text{MHz} \pm 40\text{MHz BW} : -25\text{dBc}$

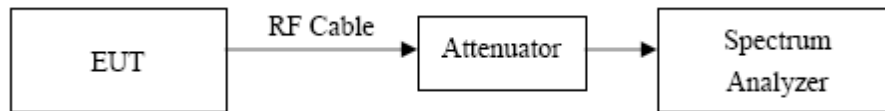
For system OBW≤160MHz

N/A

8.2 TEST PROCEDURE

- (1) A spectrum In case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for sample hold mode of operation.
- (3) the transmitter shall be operated at the receiving mode.
- (4) The resolution bandwidth shall be set to ref. the limits , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (6) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (7) Repeat above procedures until all frequency measured was complete.

8.3 TEST SETUP Block Diagram



8.4 TEST RESULT

W52 ANT1:

Normal Voltage						
Mode	detuning (MHz)		E.I.R.P (dBm/MHz)			Limit (dBm/MHz)
			LCH	MCH	HCH	
802.11a	20MHz	Lower	-28.62	-28.76	-29.37	-25dBc/20MHz
		Upper	-28.49	-27.68	-28.73	
	40MHz	Lower	-45.52	-45.42	-46.56	-40dBc/40MHz
		Upper	-46.17	-46.13	-47.38	
802.11ac(VHT20)	20MHz	Lower	-25.04	-27.21	-29.54	-25dBc/20MHz
		Upper	-25.54	-26.91	-29.82	
	40MHz	Lower	-45.8	-45.52	-45.82	-40dBc/40MHz
		Upper	-46.92	-46.75	-46.73	
802.11ac(VHT40)	40MHz	Lower	-26.21	/	-28.03	-25dBc/40MHz
		Upper	-25.3	/	-26.26	
	80MHz	Lower	-43.24	/	-43.07	-40dBc/80MHz
		Upper	-43.69	/	-44.21	
802.11ac(VHT80)	80MHz	Lower	/	-30.04	/	-25dBc/80MHz
		Upper	/	-28.45	/	
	160MHz	Lower	/	-40.61	/	-25dBc/80MHz
		Upper	/	-40.7	/	
802.11n(HT20)	20MHz	Lower	-28.99	-28.67	-26.82	-25dBc/20MHz
		Upper	-28.57	-28.19	-26.35	
	40MHz	Lower	-45.29	-45.31	-46.52	-40dBc/40MHz
		Upper	-45.87	-46.18	-47.93	
802.11n(HT40)	40MHz	Lower	-28.43	/	-30.39	-25dBc/40MHz
		Upper	-27.82	/	-29.21	
	80MHz	Lower	-43.39	/	-42.97	-40dBc/80MHz
		Upper	-43.75	/	-44.15	
Result	Pass					

W52 ANT2:

Normal Voltage						
Mode	detuning (MHz)		E.I.R.P (dBm/MHz)			Limit (dBm/MHz)
			LCH	MCH	HCH	
802.11a	20MHz	Lower	-27.51	-28.88	-28.64	-25dBc/20MHz
		Upper	-27.48	-28.08	-28.01	
	40MHz	Lower	-46	-45.36	-46.62	-40dBc/40MHz
		Upper	-47.06	-46.31	-47.82	
802.11ac(VHT20)	20MHz	Lower	-26.28	-28.19	-30.29	-25dBc/20MHz
		Upper	-26.85	-28.31	-30.95	
	40MHz	Lower	-46.04	-45.32	-45.28	-40dBc/40MHz
		Upper	-47.08	-46.29	-46.06	
802.11ac(VHT40)	40MHz	Lower	-27.9	/	-28.02	-25dBc/40MHz
		Upper	-26.73	/	-26.35	
	80MHz	Lower	-42.64	/	-43.05	-40dBc/80MHz
		Upper	-43	/	-44.23	
802.11ac(VHT80)	80MHz	Lower	/	-28.92	/	-25dBc/80MHz
		Upper	/	-27.01	/	
	160MHz	Lower	/	-41.22	/	-25dBc/80MHz
		Upper	/	-41.47	/	
802.11n(HT20)	20MHz	Lower	-27.2	-28.03	-31.18	-25dBc/20MHz
		Upper	-27.33	-27.51	-31.03	
	40MHz	Lower	-45.72	-45.62	-45.14	-40dBc/40MHz
		Upper	-46.75	-46.56	-45.86	
802.11n(HT40)	40MHz	Lower	-27.08	/	-31.77	-25dBc/40MHz
		Upper	-26.71	/	-30.55	
	80MHz	Lower	-43.74	/	-42.5	-40dBc/80MHz
		Upper	-44.23	/	-43.45	
Result	Pass					

W52 MIMO:

Normal Voltage						
Mode	detuning (MHz)		E.I.R.P (dBm/MHz)			Limit (dBm/MHz)
			LCH	MCH	HCH	
802.11a	20MHz	Lower	/	/	/	-25dBc/20MHz
		Upper	/	/	/	
	40MHz	Lower	/	/	/	-40dBc/40MHz
		Upper	/	/	/	
802.11ac(VHT20)	20MHz	Lower	-27.6	-28.33	-27.14	-25dBc/20MHz
		Upper	-28.45	-28.17	-26.63	
	40MHz	Lower	-45.25	-45.29	-46.53	-40dBc/40MHz
		Upper	-46.1	-46.19	-47.91	
802.11ac(VHT40)	40MHz	Lower	-27.55	/	-28.3	-25dBc/40MHz
		Upper	-27.06	/	-26.38	
	80MHz	Lower	-44.08	/	-44.58	-40dBc/80MHz
		Upper	-44.7	/	-45.84	
802.11ac(VHT80)	80MHz	Lower	/	-28.14	/	-25dBc/80MHz
		Upper	/	-25.88	/	
	160MHz	Lower	/	-41.58	/	-25dBc/80MHz
		Upper	/	-41.64	/	
802.11n(HT20)	20MHz	Lower	-27.93	-28.67	-28.13	-25dBc/20MHz
		Upper	-27.9	-27.69	-26.97	
	40MHz	Lower	-45.37	-45.24	-46.66	-40dBc/40MHz
		Upper	-46.23	-45.96	-47.85	
802.11n(HT40)	40MHz	Lower	-27.22	/	-27.94	-25dBc/40MHz
		Upper	-26.69	/	-26.03	
	80MHz	Lower	-43.65	/	-44.06	-40dBc/80MHz
		Upper	-44.09	/	-45.23	
Result	Pass					

ANT1:

Channel(MHz)	W52:802.11a																										
5180	Agilent Spectrum Analyzer - ALP Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 14.29 dB Ref 34.29 dBm 10 dB/div Log 20.0 14.0 8.0 2.0 -4.0 -10.0 -16.0 -22.0 -28.0 -34.0 -40.0 -46.0 -52.0 20.0 dBm -45.5 dBc -38.6 dBc -20.5 dBm -28.5 dBc -46.2 dBc Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 20.641 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 -20.641 dBm</td><td>20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>-36.82</td><td>-7.981</td><td>-29.49</td><td>-7.950</td><td>OFF</td></tr><tr><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-45.52</td><td>-24.88</td><td>-46.17</td><td>-25.53</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	Lower	Upper	Filter	1 -20.641 dBm	20.00 MHz	OFF	20.00 MHz	-36.82	-7.981	-29.49	-7.950	OFF		40.00 MHz	20.00 MHz	-45.52	-24.88	-46.17	-25.53	OFF
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	Lower	Upper	Filter																			
1 -20.641 dBm	20.00 MHz	OFF	20.00 MHz	-36.82	-7.981	-29.49	-7.950	OFF																			
	40.00 MHz	20.00 MHz	-45.52	-24.88	-46.17	-25.53	OFF																				
5200	Agilent Spectrum Analyzer - ALP Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 14.31 dB Ref 34.31 dBm 10 dB/div Log 20.0 14.0 8.0 2.0 -4.0 -10.0 -16.0 -22.0 -28.0 -34.0 -40.0 -46.0 -52.0 20.0 dBm -45.4 dBc -38.6 dBc -21.2 dBm -27.1 dBc -46.1 dBc Center 5.2 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 21.193 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 -21.193 dBm</td><td>20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>-36.76</td><td>-7.565</td><td>-27.68</td><td>-8.480</td><td>OFF</td></tr><tr><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-45.42</td><td>-24.23</td><td>-46.13</td><td>-24.93</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	Lower	Upper	Filter	1 -21.193 dBm	20.00 MHz	OFF	20.00 MHz	-36.76	-7.565	-27.68	-8.480	OFF		40.00 MHz	20.00 MHz	-45.42	-24.23	-46.13	-24.93	OFF
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	Lower	Upper	Filter																			
1 -21.193 dBm	20.00 MHz	OFF	20.00 MHz	-36.76	-7.565	-27.68	-8.480	OFF																			
	40.00 MHz	20.00 MHz	-45.42	-24.23	-46.13	-24.93	OFF																				
5240	Agilent Spectrum Analyzer - ALP Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 14.36 dB Ref 34.36 dBm 10 dB/div Log 20.0 14.0 8.0 2.0 -4.0 -10.0 -16.0 -22.0 -28.0 -34.0 -40.0 -46.0 -52.0 20.0 dBm -46.6 dBc -39.4 dBc -22.0 dBm -28.1 dBc -47.4 dBc Center 5.24 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 21.962 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 -21.962 dBm</td><td>20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>-36.37</td><td>-7.407</td><td>-28.73</td><td>-6.770</td><td>OFF</td></tr><tr><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-46.56</td><td>-24.60</td><td>-47.38</td><td>-25.42</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	Lower	Upper	Filter	1 -21.962 dBm	20.00 MHz	OFF	20.00 MHz	-36.37	-7.407	-28.73	-6.770	OFF		40.00 MHz	20.00 MHz	-46.56	-24.60	-47.38	-25.42	OFF
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	Lower	Upper	Filter																			
1 -21.962 dBm	20.00 MHz	OFF	20.00 MHz	-36.37	-7.407	-28.73	-6.770	OFF																			
	40.00 MHz	20.00 MHz	-46.56	-24.60	-47.38	-25.42	OFF																				

Channel(MHz)	W52:802.11ac(VHT40)																											
5190	Agilent Spectrum Analyzer - ACP Center Freq: 5.190000000 GHz Center Freq: 5.190000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.3 dB Ref 34.30 dBm 10 dBm 24.3 14.3 4.3 -6.7 -16.7 -26.7 -36.7 -46.7 36.2 dBc 21.5 dBm 25.3 dBc 43.7 dBc Center 5.19 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 21.514 dBm/40.00 MHz ACP-IBW <table><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBC</th><th>dBm</th><th>dBC</th><th>dBm</th><th>Filter</th></tr><tr><td>1</td><td>21.514 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>-26.21</td><td>-4.691</td><td>-25.30</td><td>-3.782</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-43.24</td><td>-21.73</td><td>-43.09</td><td>-22.18</td><td>OFF</td></tr></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBC	dBm	dBC	dBm	Filter	1	21.514 dBm / 40.00 MHz	OFF	40.00 MHz	-26.21	-4.691	-25.30	-3.782	OFF			80.00 MHz	40.00 MHz	-43.24	-21.73	-43.09	-22.18	OFF
Carrier Power	Filter	Offset Freq	Integ BW	dBC	dBm	dBC	dBm	Filter																				
1	21.514 dBm / 40.00 MHz	OFF	40.00 MHz	-26.21	-4.691	-25.30	-3.782	OFF																				
		80.00 MHz	40.00 MHz	-43.24	-21.73	-43.09	-22.18	OFF																				
5230	Agilent Spectrum Analyzer - ACP Center Freq: 5.230000000 GHz Center Freq: 5.230000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.35 dB Ref 34.35 dBm 10 dBm 24.3 14.3 4.3 -6.7 -16.7 -26.7 -36.7 -46.7 36.0 dBc 21.7 dBm 26.3 dBc 44.2 dBc Center 5.23 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 21.718 dBm/40.00 MHz ACP-IBW <table><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBC</th><th>dBm</th><th>dBC</th><th>dBm</th><th>Filter</th></tr><tr><td>1</td><td>21.718 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>-26.03</td><td>-6.515</td><td>-26.26</td><td>-4.541</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-43.07</td><td>-21.35</td><td>-44.21</td><td>-22.49</td><td>OFF</td></tr></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBC	dBm	dBC	dBm	Filter	1	21.718 dBm / 40.00 MHz	OFF	40.00 MHz	-26.03	-6.515	-26.26	-4.541	OFF			80.00 MHz	40.00 MHz	-43.07	-21.35	-44.21	-22.49	OFF
Carrier Power	Filter	Offset Freq	Integ BW	dBC	dBm	dBC	dBm	Filter																				
1	21.718 dBm / 40.00 MHz	OFF	40.00 MHz	-26.03	-6.515	-26.26	-4.541	OFF																				
		80.00 MHz	40.00 MHz	-43.07	-21.35	-44.21	-22.49	OFF																				
Channel(MHz)	W52:802.11ac(VHT80)																											
5210	Agilent Spectrum Analyzer - ACP Center Freq: 5.210000000 GHz Center Freq: 5.210000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.32 dB Ref 34.32 dBm 10 dBm 24.3 14.3 4.3 -6.7 -16.7 -26.7 -36.7 -46.7 30.6 dBc 21.2 dBm 28.5 dBc 40.7 dBc Center 5.21 GHz #Res BW 300 kHz #VBW 300 kHz Span 400 MHz Sweep 20 ms Total Carrier Power 21.216 dBm/80.00 MHz ACP-IBW <table><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBC</th><th>dBm</th><th>dBC</th><th>dBm</th><th>Filter</th></tr><tr><td>1</td><td>21.216 dBm / 80.00 MHz</td><td>OFF</td><td>80.00 MHz</td><td>-30.04</td><td>-8.822</td><td>-28.45</td><td>-7.237</td><td>OFF</td></tr><tr><td></td><td></td><td>160.0 MHz</td><td>80.00 MHz</td><td>-40.61</td><td>-19.40</td><td>-40.70</td><td>-19.49</td><td>OFF</td></tr></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBC	dBm	dBC	dBm	Filter	1	21.216 dBm / 80.00 MHz	OFF	80.00 MHz	-30.04	-8.822	-28.45	-7.237	OFF			160.0 MHz	80.00 MHz	-40.61	-19.40	-40.70	-19.49	OFF
Carrier Power	Filter	Offset Freq	Integ BW	dBC	dBm	dBC	dBm	Filter																				
1	21.216 dBm / 80.00 MHz	OFF	80.00 MHz	-30.04	-8.822	-28.45	-7.237	OFF																				
		160.0 MHz	80.00 MHz	-40.61	-19.40	-40.70	-19.49	OFF																				

Channel(MHz)	W52:802.11n(HT20)
5180	Agilent Spectrum Analyzer - ALP Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.28 dB Ref 34.29 dBm 10 dB/div 20 dB 14 dB 8 dB 2 dB -4 dB -10 dB -16 dB -22 dB -28 dB -34 dB -40 dB -46 dB -52 dB 20.367 dBm <

Channel(MHz)	W52:802.11n(HT40)																									
5190	Agilent Spectrum Analyzer - ACP Center Freq 5.190000000 GHz Center Freq: 5.190000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.3 dB Ref 34.30 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -43.4 dBc -38.4 dBc -21.3 dBm -27.8 dBc -43.7 dBc Center 5.19 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power -21.347 dBm/40.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 -21.347 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>40.00 MHz</td><td>-38.43</td><td>-7.085</td><td>-27.82</td><td>-8.476</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-43.39</td><td>-22.04</td><td>-43.75</td><td>-22.40</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 -21.347 dBm / 40.00 MHz	OFF	40.00 MHz	40.00 MHz	-38.43	-7.085	-27.82	-8.476	OFF			80.00 MHz	40.00 MHz	-43.39	-22.04	-43.75	-22.40	OFF
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																				
1 -21.347 dBm / 40.00 MHz	OFF	40.00 MHz	40.00 MHz	-38.43	-7.085	-27.82	-8.476	OFF																		
		80.00 MHz	40.00 MHz	-43.39	-22.04	-43.75	-22.40	OFF																		
5230	Agilent Spectrum Analyzer - ACP Center Freq 5.230000000 GHz Center Freq: 5.230000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.35 dB Ref 34.35 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -43.9 dBc -39.4 dBc -21.5 dBm -29.2 dBc -44.2 dBc Center 5.23 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power -21.525 dBm/40.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 -21.525 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>40.00 MHz</td><td>-39.39</td><td>-8.809</td><td>-29.21</td><td>-7.688</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-42.97</td><td>-21.45</td><td>-44.15</td><td>-22.63</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 -21.525 dBm / 40.00 MHz	OFF	40.00 MHz	40.00 MHz	-39.39	-8.809	-29.21	-7.688	OFF			80.00 MHz	40.00 MHz	-42.97	-21.45	-44.15	-22.63	OFF
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																				
1 -21.525 dBm / 40.00 MHz	OFF	40.00 MHz	40.00 MHz	-39.39	-8.809	-29.21	-7.688	OFF																		
		80.00 MHz	40.00 MHz	-42.97	-21.45	-44.15	-22.63	OFF																		

ANT2:

Channel(MHz)	W52:802.11a																											
5180	Agilent Spectrum Analyzer - ALP Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.29 dB Ref 34.29 dBm 10 dB/div Log 20.0 14.0 8.0 2.0 -4.0 -10.0 -16.0 -22.0 -28.0 -34.0 -40.0 -46.0 -52.0 -46.0 dBc -27.5 dBc -21.6 dBm -27.5 dBc -47.1 dBc Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 21.552 dBm 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>21.552 dBm</td><td>20.00 MHz</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-27.51</td><td>-5.956</td><td>-27.48</td><td>-5.932</td><td>OFF</td></tr><tr><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-46.00</td><td>-24.45</td><td>-47.06</td><td>-25.51</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	21.552 dBm	20.00 MHz	20.00 MHz	20.00 MHz	-27.51	-5.956	-27.48	-5.932	OFF		40.00 MHz	20.00 MHz	20.00 MHz	-46.00	-24.45	-47.06	-25.51	OFF
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter																				
21.552 dBm	20.00 MHz	20.00 MHz	20.00 MHz	-27.51	-5.956	-27.48	-5.932	OFF																				
	40.00 MHz	20.00 MHz	20.00 MHz	-46.00	-24.45	-47.06	-25.51	OFF																				
5200	Agilent Spectrum Analyzer - ALP Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.31 dB Ref 34.31 dBm 10 dB/div Log 20.0 14.0 8.0 2.0 -4.0 -10.0 -16.0 -22.0 -28.0 -34.0 -40.0 -46.0 -52.0 -45.4 dBc -28.9 dBc -21.3 dBm -28.1 dBc -46.3 dBc Center 5.2 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 21.257 dBm 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>21.257 dBm</td><td>20.00 MHz</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-28.88</td><td>-7.628</td><td>-28.08</td><td>-6.628</td><td>OFF</td></tr><tr><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-45.36</td><td>-24.10</td><td>-46.51</td><td>-25.60</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	21.257 dBm	20.00 MHz	20.00 MHz	20.00 MHz	-28.88	-7.628	-28.08	-6.628	OFF		40.00 MHz	20.00 MHz	20.00 MHz	-45.36	-24.10	-46.51	-25.60	OFF
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter																				
21.257 dBm	20.00 MHz	20.00 MHz	20.00 MHz	-28.88	-7.628	-28.08	-6.628	OFF																				
	40.00 MHz	20.00 MHz	20.00 MHz	-45.36	-24.10	-46.51	-25.60	OFF																				
5240	Agilent Spectrum Analyzer - ALP Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.36 dB Ref 34.36 dBm 10 dB/div Log 20.0 14.0 8.0 2.0 -4.0 -10.0 -16.0 -22.0 -28.0 -34.0 -40.0 -46.0 -52.0 -46.6 dBc -28.6 dBc -22.7 dBm -28.6 dBc -47.6 dBc Center 5.24 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 22.263 dBm 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>22.263 dBm</td><td>20.00 MHz</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-28.64</td><td>-6.277</td><td>-28.01</td><td>-5.648</td><td>OFF</td></tr><tr><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-46.62</td><td>-24.26</td><td>-47.82</td><td>-25.45</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	22.263 dBm	20.00 MHz	20.00 MHz	20.00 MHz	-28.64	-6.277	-28.01	-5.648	OFF		40.00 MHz	20.00 MHz	20.00 MHz	-46.62	-24.26	-47.82	-25.45	OFF
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22.263 dBm	20.00 MHz	20.00 MHz	20.00 MHz	-28.64	-6.277	-28.01	-5.648	OFF																				
	40.00 MHz	20.00 MHz	20.00 MHz	-46.62	-24.26	-47.82	-25.45	OFF																				

Channel(MHz)	W52:802.11ac(VHT20)																					
5180	Agilent Spectrum Analyzer - ACP Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.29 dB Ref 34.29 dBm -45.3 dBc -36.3 dBc 21.7 dBm -35.9 dBc -47.1 dBc Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 21.692 dBm/20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 21.692 dBm</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-36.28</td><td>-4.591</td><td>-5.161</td><td>OFF</td></tr><tr><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-46.04</td><td>-24.35</td><td>-47.08</td><td>-25.39</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 21.692 dBm	20.00 MHz	20.00 MHz	-36.28	-4.591	-5.161	OFF		40.00 MHz	20.00 MHz	-46.04	-24.35	-47.08	-25.39
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																
1 21.692 dBm	20.00 MHz	20.00 MHz	-36.28	-4.591	-5.161	OFF																
	40.00 MHz	20.00 MHz	-46.04	-24.35	-47.08	-25.39																
5200	Agilent Spectrum Analyzer - ACP Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.31 dB Ref 34.31 dBm -45.3 dBc -36.2 dBc 21.2 dBm -35.9 dBc -46.3 dBc Center 5.2 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 21.165 dBm/20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 21.165 dBm</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-36.19</td><td>-7.027</td><td>-7.145</td><td>OFF</td></tr><tr><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-45.32</td><td>-24.15</td><td>-46.29</td><td>-25.12</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 21.165 dBm	20.00 MHz	20.00 MHz	-36.19	-7.027	-7.145	OFF		40.00 MHz	20.00 MHz	-45.32	-24.15	-46.29	-25.12
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																
1 21.165 dBm	20.00 MHz	20.00 MHz	-36.19	-7.027	-7.145	OFF																
	40.00 MHz	20.00 MHz	-45.32	-24.15	-46.29	-25.12																
5240	Agilent Spectrum Analyzer - ACP Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.36 dB Ref 34.36 dBm -45.3 dBc -30.3 dBc 20.5 dBm -30.9 dBc -46.1 dBc Center 5.24 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 20.485 dBm/20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 20.485 dBm</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-39.29</td><td>-9.809</td><td>-30.95</td><td>-10.48</td></tr><tr><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-45.28</td><td>-24.79</td><td>-46.06</td><td>-25.57</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 20.485 dBm	20.00 MHz	20.00 MHz	-39.29	-9.809	-30.95	-10.48		40.00 MHz	20.00 MHz	-45.28	-24.79	-46.06	-25.57
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																
1 20.485 dBm	20.00 MHz	20.00 MHz	-39.29	-9.809	-30.95	-10.48																
	40.00 MHz	20.00 MHz	-45.28	-24.79	-46.06	-25.57																

Channel(MHz)	W52:802.11ac(VHT40)																																																																																							
5190	Agilent Spectrum Analyzer - ACP Center Freq: 5.190000000 GHz Center Freq: 5.190000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.35 dB Ref 34.30 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -42.6 dBc -27.9 dBc -20.5 dBm -26.1 dBc -43.0 dBc Center 5.19 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 20.529 dBm/40.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>1</td><td>20.529 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>-27.90</td><td>-7.574</td><td>-26.73</td><td>-8.203</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-42.64</td><td>-22.11</td><td>-43.00</td><td>-22.47</td><td>OFF</td></tr></tbody></table> <tr><td>5230</td><td> Agilent Spectrum Analyzer - ACP Center Freq: 5.230000000 GHz Center Freq: 5.230000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.35 dB Ref 34.35 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -43.1 dBc -28.0 dBc -21.3 dBm -26.3 dBc -44.2 dBc Center 5.23 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 21.758 dBm/40.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>1</td><td>21.758 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>-28.02</td><td>-6.266</td><td>-26.35</td><td>-4.591</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-43.05</td><td>-21.30</td><td>-44.23</td><td>-22.48</td><td>OFF</td></tr></tbody></table> <tr><th>Channel(MHz)</th><th>W52:802.11ac(VHT80)</th></tr><tr><td>5210</td><td> Agilent Spectrum Analyzer - 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5180	Agilent Spectrum Analyzer - ACP Center Freq: 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.23 dB Ref 34.29 dBm -45.7 dBc -27.2 dBc 21.4 dBm -27.3 dBc -46.7 dBc Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 21.390 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>1</td><td>21.390 dBm / 20.00 MHz</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-27.20</td><td>-5.899</td><td>-27.33</td><td>-5.941</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-45.72</td><td>-24.33</td><td>-46.75</td><td>-25.36</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1	21.390 dBm / 20.00 MHz	20.00 MHz	20.00 MHz	-27.20	-5.899	-27.33	-5.941	OFF			40.00 MHz	20.00 MHz	-45.72	-24.33	-46.75	-25.36	OFF
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5200	Agilent Spectrum Analyzer - ACP Center Freq: 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.31 dB Ref 34.31 dBm -45.6 dBc -28.0 dBc 21.6 dBm -27.5 dBc -46.6 dBc Center 5.2 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 21.595 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>1</td><td>21.595 dBm / 20.00 MHz</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-28.03</td><td>-6.435</td><td>-27.51</td><td>-5.919</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-45.52</td><td>-24.03</td><td>-46.56</td><td>-24.96</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1	21.595 dBm / 20.00 MHz	20.00 MHz	20.00 MHz	-28.03	-6.435	-27.51	-5.919	OFF			40.00 MHz	20.00 MHz	-45.52	-24.03	-46.56	-24.96	OFF
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5240	Agilent Spectrum Analyzer - ACP Center Freq: 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.35 dB Ref 34.36 dBm -45.1 dBc -31.2 dBc 20.3 dBm -31.0 dBc -45.9 dBc Center 5.24 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 20.305 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>1</td><td>20.305 dBm / 20.00 MHz</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-31.16</td><td>-10.87</td><td>-31.03</td><td>-10.73</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-45.14</td><td>-24.84</td><td>-45.86</td><td>-25.55</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1	20.305 dBm / 20.00 MHz	20.00 MHz	20.00 MHz	-31.16	-10.87	-31.03	-10.73	OFF			40.00 MHz	20.00 MHz	-45.14	-24.84	-45.86	-25.55	OFF
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Channel(MHz)	W52:802.11n(HT40)																									
5190	Agilent Spectrum Analyzer - ALD Center Freq: 5.190000000 GHz Center Freq: 5.190000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.3 dB Ref 34.30 dBm 22.0 dBm 27.1 dBc 22.0 dBm 26.1 dBc 44.2 dBc Center 5.19 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 22.037 dBm/40.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 22.037 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>40.00 MHz</td><td>-27.08</td><td>-5.045</td><td>-26.71</td><td>-4.675</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-43.74</td><td>-21.71</td><td>-44.23</td><td>-22.19</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 22.037 dBm / 40.00 MHz	OFF	40.00 MHz	40.00 MHz	-27.08	-5.045	-26.71	-4.675	OFF			80.00 MHz	40.00 MHz	-43.74	-21.71	-44.23	-22.19	OFF
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5230	Agilent Spectrum Analyzer - ALD Center Freq: 5.230000000 GHz Center Freq: 5.230000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.35 dB Ref 34.35 dBm 20.9 dBm 31.5 dBc 20.9 dBm 30.6 dBc 43.4 dBc Center 5.23 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 20.924 dBm/40.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 20.924 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>40.00 MHz</td><td>-31.77</td><td>-10.84</td><td>-30.55</td><td>-9.630</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-42.50</td><td>-21.58</td><td>-43.45</td><td>-22.53</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 20.924 dBm / 40.00 MHz	OFF	40.00 MHz	40.00 MHz	-31.77	-10.84	-30.55	-9.630	OFF			80.00 MHz	40.00 MHz	-42.50	-21.58	-43.45	-22.53	OFF
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																				
1 20.924 dBm / 40.00 MHz	OFF	40.00 MHz	40.00 MHz	-31.77	-10.84	-30.55	-9.630	OFF																		
		80.00 MHz	40.00 MHz	-42.50	-21.58	-43.45	-22.53	OFF																		

MIMO:

Channel(MHz)	W52:802.11ac(VHT20)
5180	Agilent Spectrum Analyzer - ACP Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 14.29 dB Ref 34.29 dBm 10 dBm 24 dB 12 dB 0 dB -12 dB -24 dB -36 dB -48 dB -60 dB 20.61 dBm 20.6 dBc 20.6 dBm 20.6 dBc 20

Channel(MHz)	W52:802.11ac(VHT40)
5190	 Agilent Spectrum Analyzer - ALD Center Freq: 5.190000000 GHz Ref Offset: 14.3 dB Ref: 34.30 dBm Carrier Power: 22.387 dBm ACP-IBW: 300 kHz Span: 200 MHz Sweep: 20 ms Filter: OFF Carrier Power: 22.387 dBm ACP-IBW: 300 kHz Span: 200 MHz Sweep: 20 ms Filter: OFF
5230	 Agilent Spectrum Analyzer - ALD Center Freq: 5.230000000 GHz Ref Offset: 14.35 dB Ref: 34.35 dBm Carrier Power: 23.697 dBm ACP-IBW: 300 kHz Span: 200 MHz Sweep: 20 ms Filter: OFF Carrier Power: 23.697 dBm ACP-IBW: 300 kHz Span: 200 MHz Sweep: 20 ms Filter: OFF
Channel(MHz)	W52:802.11ac(VHT80)
5210	 Agilent Spectrum Analyzer - ALD Center Freq: 5.210000000 GHz Ref Offset: 14.32 dB Ref: 34.32 dBm Carrier Power: 22.557 dBm ACP-IBW: 300 kHz Span: 400 MHz Sweep: 20 ms Filter: OFF Carrier Power: 22.557 dBm ACP-IBW: 300 kHz Span: 400 MHz Sweep: 20 ms Filter: OFF

Channel(MHz)	W52:802.11n(HT20)																																																																																																										
5180	Agilent Spectrum Analyzer - ACP Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 14.29 dB Ref 34.29 dBm 10 dBm/Div LOG 24.0 14.0 4.0 -6.0 -16.0 -26.0 -36.0 -46.0 -56.0 20.7 dBm -27.9 dBc -45.4 dBc -46.2 dBc -27.9 dBc Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 20.68 dBm/20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr><tr><th></th><th></th><th></th><th></th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th></th></tr></thead><tbody><tr><td>1 -20.68 dBm / 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-27.93</td><td>-7.261</td><td>-27.90</td><td>-7.229</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-45.37</td><td>-24.70</td><td>-46.23</td><td>-25.56</td><td>OFF</td></tr></tbody></table> <tr><td>5200</td><td> Agilent Spectrum Analyzer - 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9. Antenna Power and Tolerance

9.1 LIMIT

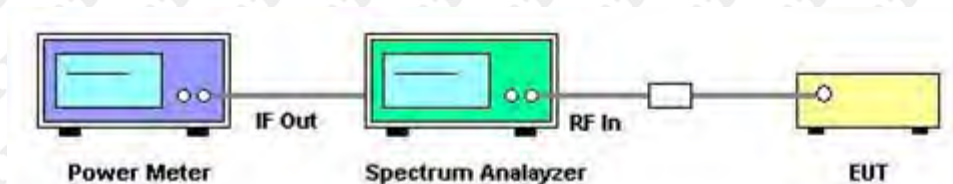
- (1) 10mW/MHz (OFDM, DSSS: 20MHz system),
 - (2) 5mW/MHz (OFDM: 40MHz system),
 - (3) 2.5mW/MHz (OFDM: 80MHz system),
 - (4) 1.25mW/MHz (OFDM: 160MHz system),
 - (5) 10mW/MHz (except above methods),
- Tolerance: W52/W53: -80%~+20%, W56: -50%~+50%.

9.2 TEST PROCEDURE

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- (a) A sample detector function must be used.
- (b) A measurement instrument with an integrated 1MHz power bandwidth function may be used to automate the test process.
- (c) Connect the EUT to the RF input of the spectrum analyzer via a 50ohm attenuator.
- (d) Set the RBW = 1MHz, VBW = 1MHz, center of frequency = operating frequency, Sweep = Auto.
- (e) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
- (f) Repeat above procedures until all frequency measured was complete.

9.3 Test Setup Block Diagram



9.4 TEST RESULT

W52

Mode	Channel (MHz)	Average burst power(dBm)	Antenna power (mW/MHz)	E.I.R.P (mW/MHz)	Limit (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit
802.11a ANT 1	LCH	4.995	3.159	7.490	10	4	-21.034	-80% ~ +20%
	MCH	4.464	2.795	6.628	10	4	-30.122	
	HCH	5.337	3.417	8.104	10	4	-14.564	
802.11a ANT 2	LCH	4.766	2.996	7.106	10	4	-25.090	
	MCH	5.071	3.214	7.623	10	4	-19.640	
	HCH	4.344	2.719	6.448	10	4	-32.026	

Mode	Channel (MHz)	Average burst power (dBm) ANT 1	Average burst power (dBm) ANT 2	Total Antenna Power (mW/MHz)	Rated power density (mW/MHz)	Antenna Gain (dBi)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Tolerance (%)	Limit
802.11n (HT20)	LCH	2.787	3.517	4.147	5	3.75	9.835	10	-17.055	-80% ~ +20%
	MCH	2.045	3.675	3.932	5	3.75	9.325	10	-21.357	
	HCH	2.716	2.386	3.601	5	3.75	8.540	10	-27.977	
802.11ac (VHT20)	LCH	2.025	3.493	3.829	5	3.75	9.080	10	-23.417	
	MCH	3.293	3.14	4.195	5	3.75	9.948	10	-16.097	
	HCH	3.452	2.375	3.942	5	3.75	9.348	10	-21.161	
802.11n (HT40)	LCH	0.142	0.055	2.046	3	3.75	4.852	5	-31.801	
	HCH	0.211	0.233	2.105	3	3.75	4.992	5	-29.837	
802.11ac (VHT40)	LCH	0.172	0.232	2.095	3	3.75	4.969	5	-30.158	
	HCH	0.132	0.297	2.102	3	3.75	4.984	5	-29.945	
802.11ac (VHT80)	MCH	-3.094	-3.056	0.985	1	3.75	2.336	2.5	-1.478	

Note: P= Average burst power, G= Antenna Gain=3.75dBi
EIRP = Conducted Power + Antenna Gain

10. Unwanted Emissions Strength

10.1 LIMIT

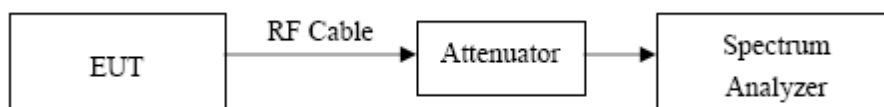
W52	
20MHz system	
OBW : 18MHz or less	OBW : 18 - 20 MHz
5,142 MHz or less : 2.5 μ W/MHz	5,142 MHz or less : 2.5 μ W/MHz
5,142 - 5,150 MHz : 15 μ W/MHz	5,142 - 5,150 MHz : 15 μ W/MHz
	5,250 - 5,250.2 MHz : $10^{1-(8/2)(f-9.75)}$ mW/MHz
5,250 - 5,251 MHz : $10^{1-(f-9)}$ mW/MHz	5,250.2 - 5,251 MHz : $10^{1-(f-9)}$ mW/MHz
5,251 - 5,260 MHz : $10^{-1-(8/90)(f-11)}$ mW/MHz	5,251 - 5,260 MHz : $10^{-1-(8/90)(f-11)}$ mW/MHz
5,260 - 5,266.7 MHz : $10^{-1.8-(6/50)(f-20)}$ mW/MHz	5,260 - 5,266.7 MHz : $10^{-1.8-(6/50)(f-20)}$ mW/MHz
5,266.7 MHz or more : 2.5 μ W/MHz	5,266.7 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5240 (MHz)

40MHz system	80MHz system
5,141.6 MHz or less : 2.5 μ W/MHz	5,123.2 MHz or less : 2.5 μ W/MHz
5,141.6 - 5,150 MHz : 15 μ W/MHz	5,123.2 - 5,150 MHz : 15 μ W/MHz
5,250 - 5,251 MHz : $10^{-(f-20)+\log(1/2)}$ mW/MHz	5,250 - 5,251 MHz : $10^{-(f-40)+\log(1/4)}$ mW/MHz
5,251 - 5,270 MHz : $10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz	5,251 - 5,290 MHz : $10^{-(8/290)(f-41)-1+\log(1/4)}$ mW/MHz
5,270 - 5,278.4 MHz : $10^{-(2/50)(f-40)-1.8+\log(1/2)}$ mW/MHz	5,290 - 5,296.7 MHz : $10^{-(2/100)(f-80)-1.8+\log(1/4)}$ mW/MHz
5,278.4 MHz or more : 2.5 μ W/MHz	5,296.7 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5230 (MHz)	f = MHz, Difference from 5210 (MHz)

10.2 TEST PROCEDURE

- (1) A spectrumIn case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the highest output power, or, in the case of equipment able to operate at more than one power level, at the lowest and highest output powers;
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (5) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (6) Repeat above procedures until all frequency measured was complete.

10.3 TEST SETUP Block Diagram



10.4 TEST RESULT

W52 ANT 1

Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result(dBm)	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	3153.43	-39.89	-26	-26	PASS
		5142MHz-5150MHz	5149.43	-30.53	-18	-18	PASS
		5250MHz-5251MHz	5250.1	-37.63	0	-10	PASS
		5251MHz-5260MHz	5259.17	-38.03	-10	-18	PASS
		5260MHz-5266.7MHz	5260.41	-37.69	-18	-26	PASS
		5266.7MHz-26000MHz	24984.07	-35.14	-26	-26	PASS
	5200MHz	30MHz-5142MHz	3158.54	-39.5	-26	-26	PASS
		5142MHz-5150MHz	5145.72	-36.67	-18	-18	PASS
		5250MHz-5251MHz	5250.3	-37.86	0	-10	PASS
		5251MHz-5260MHz	5259.3	-38.01	-10	-18	PASS
		5260MHz-5266.7MHz	5264.84	-38.18	-18	-26	PASS
		5266.7MHz-26000MHz	24963.34	-35.08	-26	-26	PASS
	5240MHz	30MHz-5142MHz	2667.79	-39.41	-26	-26	PASS
		5142MHz-5150MHz	5145.18	-38.19	-18	-18	PASS
		5250MHz-5251MHz	5250	-7.89	0	-10	PASS
		5251MHz-5260MHz	5251.05	-13.65	-10	-18	PASS
		5260MHz-5266.7MHz	5260.23	-22.5	-18	-26	PASS
		5266.7MHz-26000MHz	5266.7	-34.24	-26	-26	PASS

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Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	3163.66	-39.64	-26	-26	PASS
		5142MHz-5150MHz	5148.78	-33.37	-18	-18	PASS
		5250MHz-5251MHz	5250.61	-38.48	0	-10	PASS
		5251MHz-5260MHz	5257.44	-38.1	-10	-18	PASS
		5260MHz-5266.7MHz	5265.35	-38.17	-18	-26	PASS
		5266.7MHz-26000MHz	25730.47	-35.2	-26	-26	PASS
	5200MHz	30MHz-5142MHz	2693.35	-39.65	-26	-26	PASS
		5142MHz-5150MHz	5146.03	-37.49	-18	-18	PASS
		5250MHz-5251MHz	5250.1	-37.66	0	-10	PASS

		5251MHz-5260MHz	5255.46	-37.66	-10	-18	PASS
		5260MHz-5266.7MHz	5263.89	-38.19	-18	-26	PASS
		5266.7MHz-26000MHz	25004.8	-35.01	-26	-26	PASS
	5240MHz	30MHz-5142MHz	3189.22	-39.8	-26	-26	PASS
		5142MHz-5150MHz	5145.07	-37.9	-18	-18	PASS
		5250MHz-5251MHz	5250.01	-7.36	0	-10	PASS
		5251MHz-5260MHz	5251.01	-12.48	-10	-18	PASS
		5260MHz-5266.7MHz	5260.12	-24.42	-18	-26	PASS
		5266.7MHz-26000MHz	25751.2	-35.03	-26	-26	PASS
Normal Voltage	5190MHz	30MHz-5141.6MHz	5141.6	-35.75	-26	-26	PASS
		5141.6MHz-5150MHz	5148.81	-21.99	-18	-18	PASS
		5250MHz-5251MHz	5250.13	-34.68	-3	-13	PASS
		5251MHz-5270MHz	5254.44	-35.91	-13	-21	PASS
		5270MHz-5278.4MHz	5271.29	-38.16	-21	-26	PASS
		5278.4MHz-26000MHz	25751.34	-35.38	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	3045.84	-39.15	-26	-26	PASS
		5141.6MHz-5150MHz	5144.79	-38.09	-18	-18	PASS
		5250MHz-5251MHz	5250.02	-13.2	-3	-13	PASS
		5251MHz-5270MHz	5251.13	-16.38	-13	-21	PASS
		5270MHz-5278.4MHz	5271.81	-25.01	-21	-26	PASS
		5278.4MHz-26000MHz	25005.36	-34.81	-26	-26	PASS
Normal Voltage	5210MHz	30MHz-5123.2MHz	5123.2	-37.02	-26	-26	PASS
		5123.2MHz-5150MHz	5145.6	-25.01	-18	-18	PASS
		5250MHz-5251MHz	5250.11	-19.11	-6	-16	PASS
		5251MHz-5290MHz	5252.01	-20.16	-16	-24	PASS
		5290MHz-5296.7MHz	5290.3	-26.55	-24	-26	PASS
		5296.7MHz-26000MHz	25006.24	-35.24	-26	-26	PASS

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Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	2642.23	-39.48	-26	-26	PASS
		5142MHz-5150MHz	5147.26	-29.71	-18	-18	PASS
		5250MHz-5251MHz	5250.52	-38.07	0	-10	PASS
		5251MHz-5260MHz	5253.71	-38.14	-10	-18	PASS
		5260MHz-5266.7MHz	5263.44	-38.14	-18	-26	PASS
		5266.7MHz-26000MHz	25419.47	-35.1	-26	-26	PASS
	5200MHz	30MHz-5142MHz	3158.54	-39.53	-26	-26	PASS
		5142MHz-5150MHz	5143.2	-37.9	-18	-18	PASS
		5250MHz-5251MHz	5250.96	-37.99	0	-10	PASS
		5251MHz-5260MHz	5252.78	-37.95	-10	-18	PASS
		5260MHz-5266.7MHz	5265.23	-38.32	-18	-26	PASS
		5266.7MHz-26000MHz	25751.2	-34.92	-26	-26	PASS
	5240MHz	30MHz-5142MHz	4589.9	-39.34	-26	-26	PASS
		5142MHz-5150MHz	5148.34	-37.42	-18	-18	PASS
		5250MHz-5251MHz	5250.02	-6.23	0	-10	PASS
		5251MHz-5260MHz	5251.03	-14.02	-10	-18	PASS
		5260MHz-5266.7MHz	5260.23	-23.19	-18	-26	PASS
		5266.7MHz-26000MHz	5266.7	-33.76	-26	-26	PASS
Normal Voltage	5190MHz	30MHz-5141.6MHz	5141.6	-35.05	-26	-26	PASS
		5141.6MHz-5150MHz	5144.82	-23.72	-18	-18	PASS
		5250MHz-5251MHz	5250.06	-36.77	-3	-13	PASS
		5251MHz-5270MHz	5253.81	-37.37	-13	-21	PASS
		5270MHz-5278.4MHz	5270.42	-38.5	-21	-26	PASS
		5278.4MHz-26000MHz	25440.52	-34.92	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	3030.51	-38.95	-26	-26	PASS
		5141.6MHz-5150MHz	5149.13	-36.85	-18	-18	PASS
		5250MHz-5251MHz	5250.17	-13.38	-3	-13	PASS
		5251MHz-5270MHz	5251.23	-17.37	-13	-21	PASS
		5270MHz-5278.4MHz	5271.86	-24.22	-21	-26	PASS
		5278.4MHz-26000MHz	25709.9	-35.11	-26	-26	PASS

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Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result(dBm)	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	2657.57	-39.85	-26	-26	PASS
		5142MHz-5150MHz	5149.81	-29.89	-18	-18	PASS
		5250MHz-5251MHz	5250.08	-37.77	0	-10	PASS
		5251MHz-5260MHz	5257.51	-36.69	-10	-18	PASS
		5260MHz-5266.7MHz	5260.88	-37.8	-18	-26	PASS
		5266.7MHz-26000MHz	25046.27	-35.27	-26	-26	PASS
	5200MHz	30MHz-5142MHz	3040.97	-39.28	-26	-26	PASS
		5142MHz-5150MHz	5148.47	-37.21	-18	-18	PASS
		5250MHz-5251MHz	5250.66	-38.08	0	-10	PASS
		5251MHz-5260MHz	5253.31	-38.27	-10	-18	PASS
		5260MHz-5266.7MHz	5264.25	-37.41	-18	-26	PASS
		5266.7MHz-26000MHz	25004.8	-35.15	-26	-26	PASS
	5240MHz	30MHz-5142MHz	2555.33	-39.68	-26	-26	PASS
		5142MHz-5150MHz	5143.49	-36.46	-18	-18	PASS
		5250MHz-5251MHz	5250.13	-7.25	0	-10	PASS
		5251MHz-5260MHz	5251.05	-12.94	-10	-18	PASS
		5260MHz-5266.7MHz	5260.01	-20.57	-18	-26	PASS
		5266.7MHz-26000MHz	5266.7	-32.77	-26	-26	PASS

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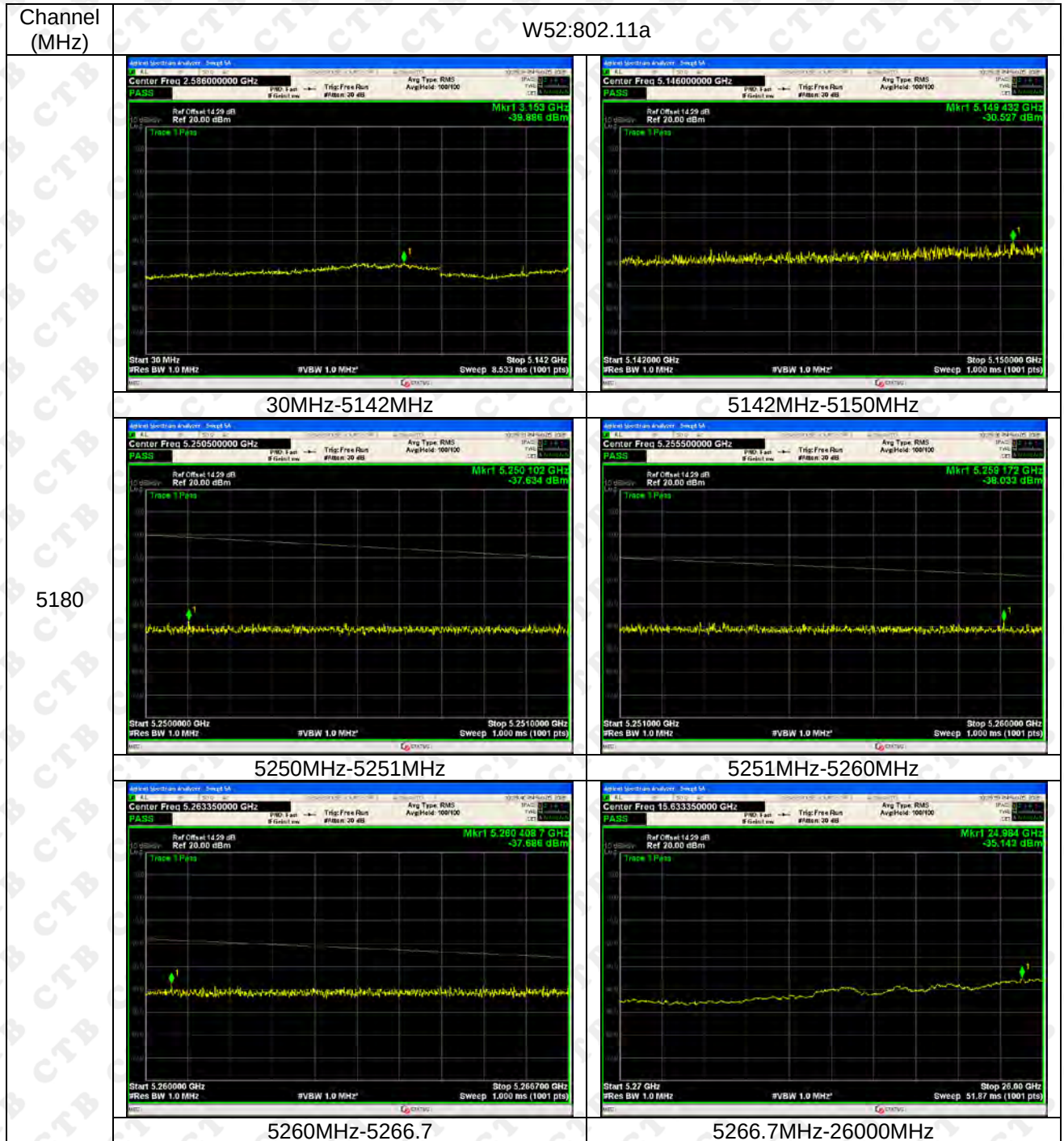
Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	3071.64	-39.85	-26	-26	PASS
		5142MHz-5150MHz	5148.91	-34.98	-18	-18	PASS
		5250MHz-5251MHz	5250.51	-38.16	0	-10	PASS
		5251MHz-5260MHz	5251.61	-38.3	-10	-18	PASS
		5260MHz-5266.7MHz	5263.2	-37.45	-18	-26	PASS
		5266.7MHz-26000MHz	25709.73	-35.04	-26	-26	PASS
	5200MHz	30MHz-5142MHz	3173.88	-39.62	-26	-26	PASS
		5142MHz-5150MHz	5143.38	-37.54	-18	-18	PASS
		5250MHz-5251MHz	5250.93	-37.54	0	-10	PASS
		5251MHz-5260MHz	5259.34	-37.97	-10	-18	PASS

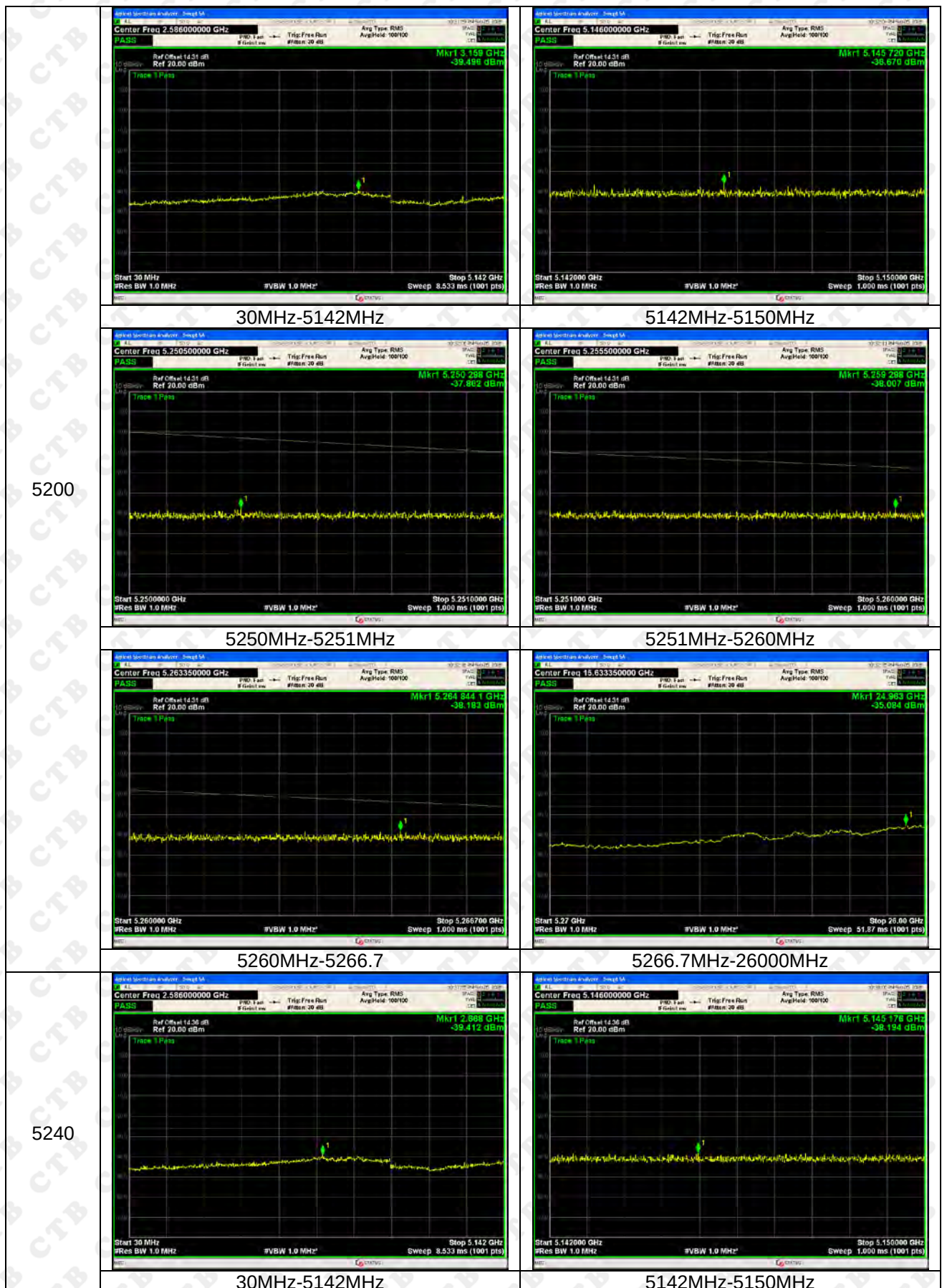
		5260MHz-5266.7MHz	5265.13	-38.61	-18	-26	PASS
		5266.7MHz-26000MHz	24984.07	-35.15	-26	-26	PASS
	5240MHz	30MHz-5142MHz	2621.78	-39.18	-26	-26	PASS
		5142MHz-5150MHz	5149.42	-37.59	-18	-18	PASS
		5250MHz-5251MHz	5250.02	-7.87	0	-10	PASS
		5251MHz-5260MHz	5251.01	-15.02	-10	-18	PASS
		5260MHz-5266.7MHz	5260.42	-24.95	-18	-26	PASS
		5266.7MHz-26000MHz	25025.53	-35	-26	-26	PASS
Normal Voltage	5190MHz	30MHz-5141.6MHz	5141.6	-37.33	-26	-26	PASS
		5141.6MHz-5150MHz	5148.77	-24.86	-18	-18	PASS
		5250MHz-5251MHz	5250.72	-36.51	-3	-13	PASS
		5251MHz-5270MHz	5262.12	-37.78	-13	-21	PASS
		5270MHz-5278.4MHz	5276.73	-37.49	-21	-26	PASS
		5278.4MHz-26000MHz	25046.81	-34.93	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	2585.8	-39.78	-26	-26	PASS
		5141.6MHz-5150MHz	5146.17	-37.75	-18	-18	PASS
		5250MHz-5251MHz	5250.09	-13.86	-3	-13	PASS
		5251MHz-5270MHz	5251.09	-17.79	-13	-21	PASS
		5270MHz-5278.4MHz	5273.28	-27.06	-21	-26	PASS
		5278.4MHz-26000MHz	25772.06	-34.61	-26	-26	PASS
Normal Voltage	5210MHz	30MHz-5123.2MHz	5123.2	-37.74	-26	-26	PASS
		5123.2MHz-5150MHz	5147.24	-28.07	-18	-18	PASS
		5250MHz-5251MHz	5250.01	-20.45	-6	-16	PASS
		5251MHz-5290MHz	5251.43	-23.15	-16	-24	PASS
		5290MHz-5296.7MHz	5290.2	-29.17	-24	-26	PASS
		5296.7MHz-26000MHz	24985.54	-35.25	-26	-26	PASS

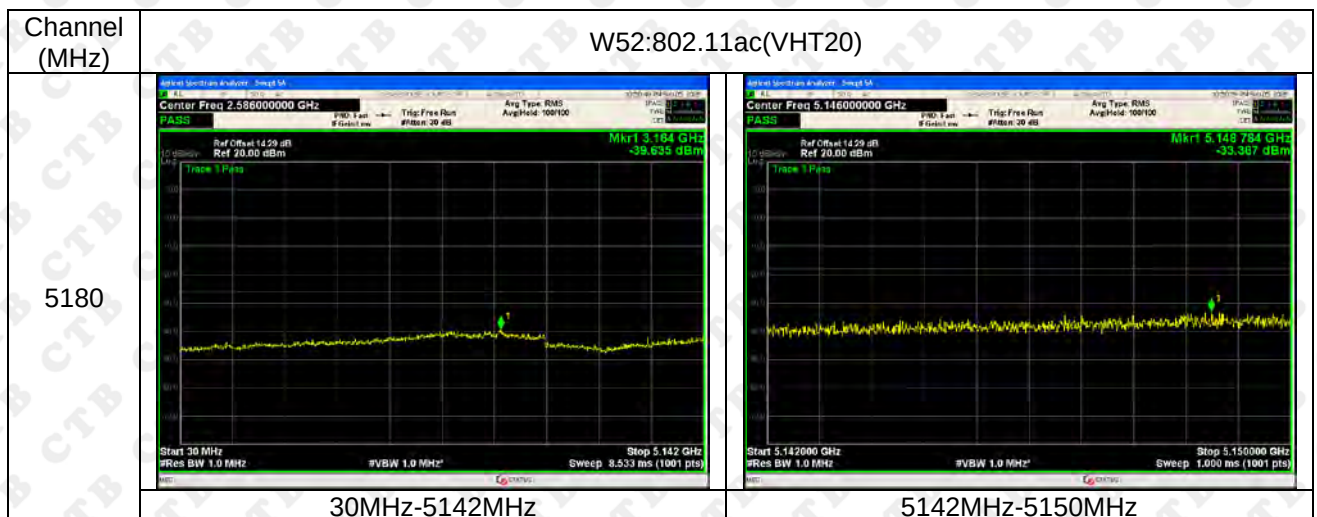
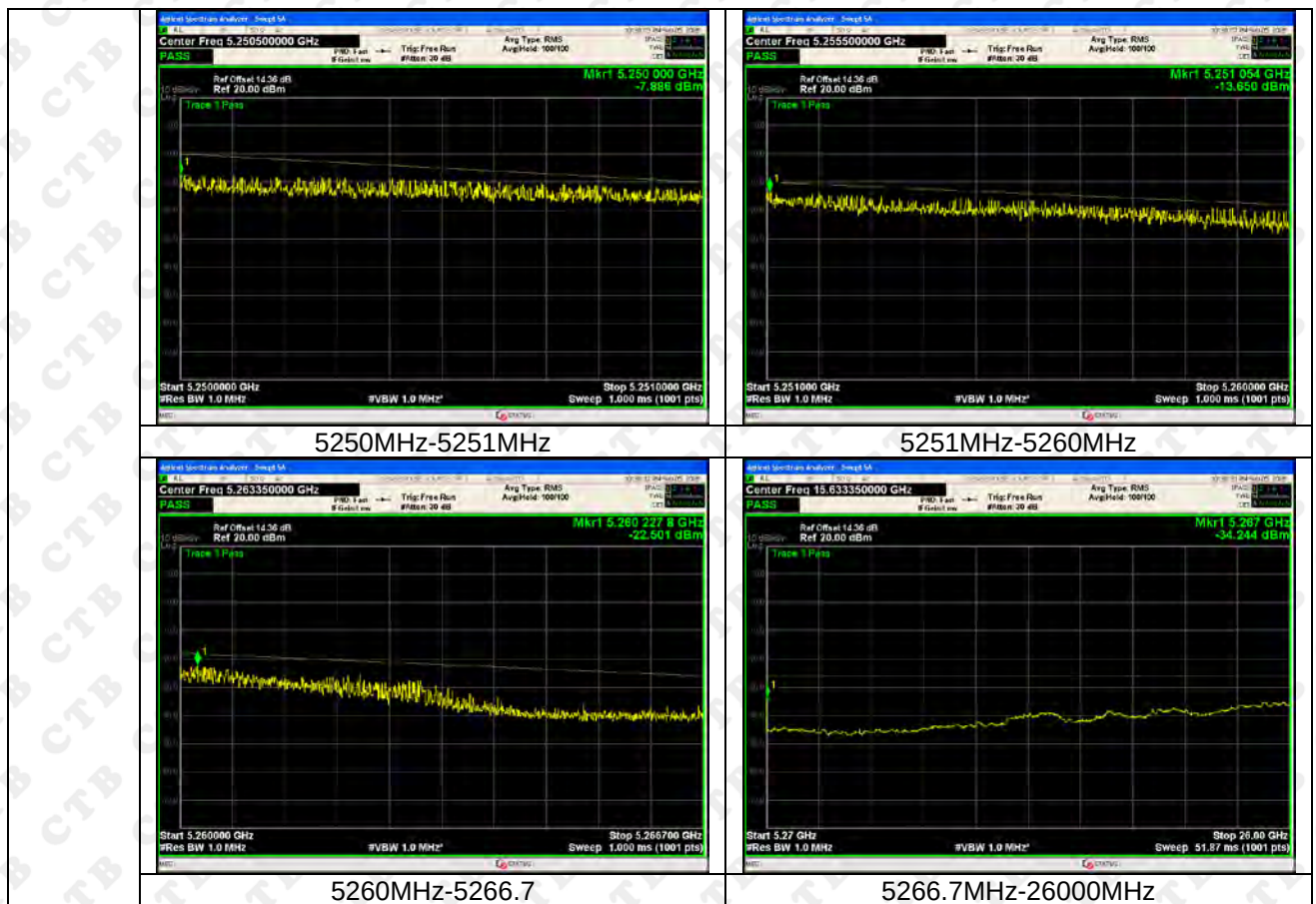
802.11n

Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	3153.43	-39.9	-26	-26	PASS
		5142MHz-5150MHz	5149.06	-30.79	-18	-18	PASS
		5250MHz-5251MHz	5250.35	-38.44	0	-10	PASS
		5251MHz-5260MHz	5253.52	-37.69	-10	-18	PASS
		5260MHz-5266.7MHz	5260.1	-38.61	-18	-26	PASS
		5266.7MHz-26000MHz	25709.73	-35.31	-26	-26	PASS
	5200MHz	30MHz-5142MHz	2678.02	-39.53	-26	-26	PASS
		5142MHz-5150MHz	5149	-37.54	-18	-18	PASS
		5250MHz-5251MHz	5250.9	-37.58	0	-10	PASS
		5251MHz-5260MHz	5251.68	-37.85	-10	-18	PASS
		5260MHz-5266.7MHz	5263.28	-38.13	-18	-26	PASS
		5266.7MHz-26000MHz	25025.53	-35.15	-26	-26	PASS
	5240MHz	30MHz-5142MHz	3056.3	-39.59	-26	-26	PASS
		5142MHz-5150MHz	5149.54	-37.46	-18	-18	PASS
		5250MHz-5251MHz	5250.02	-7.79	0	-10	PASS
		5251MHz-5260MHz	5251	-14.94	-10	-18	PASS
		5260MHz-5266.7MHz	5260.59	-27.14	-18	-26	PASS
		5266.7MHz-26000MHz	25730.47	-35.13	-26	-26	PASS
Normal Voltage	5190MHz	30MHz-5141.6MHz	5141.6	-30.37	-26	-26	PASS
		5141.6MHz-5150MHz	5149.76	-18.4	-18	-18	PASS
		5250MHz-5251MHz	5250.29	-29.38	-3	-13	PASS
		5251MHz-5270MHz	5251	-32.43	-13	-21	PASS
		5270MHz-5278.4MHz	5277.93	-37.79	-21	-26	PASS
		5278.4MHz-26000MHz	24984.64	-35.2	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	3158.3	-39.62	-26	-26	PASS
		5141.6MHz-5150MHz	5142.94	-37.92	-18	-18	PASS
		5250MHz-5251MHz	5250.09	-14.14	-3	-13	PASS
		5251MHz-5270MHz	5251.06	-17.92	-13	-21	PASS
		5270MHz-5278.4MHz	5272.19	-25.68	-21	-26	PASS
		5278.4MHz-26000MHz	24984.64	-35.14	-26	-26	PASS

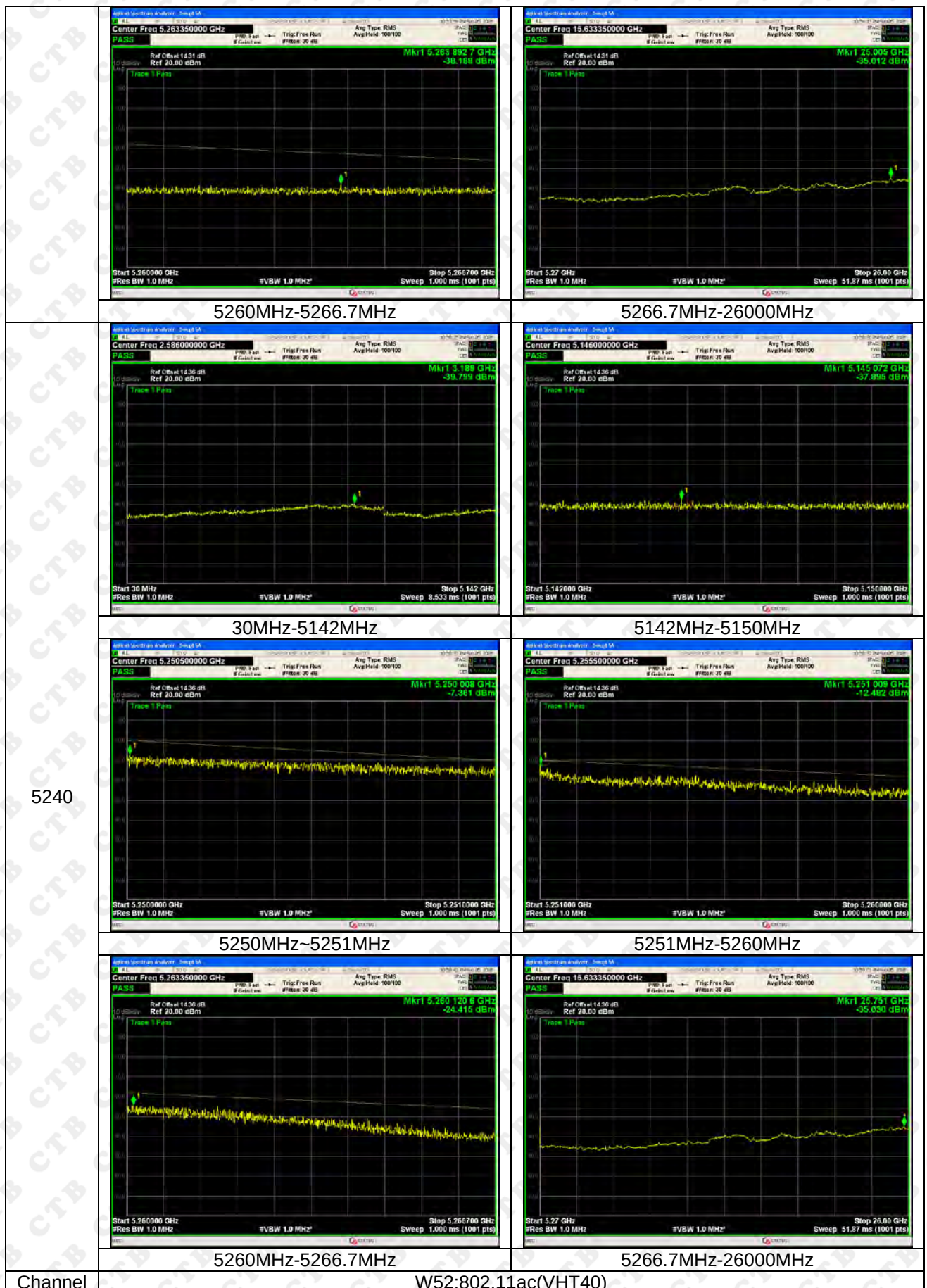
ANT 1

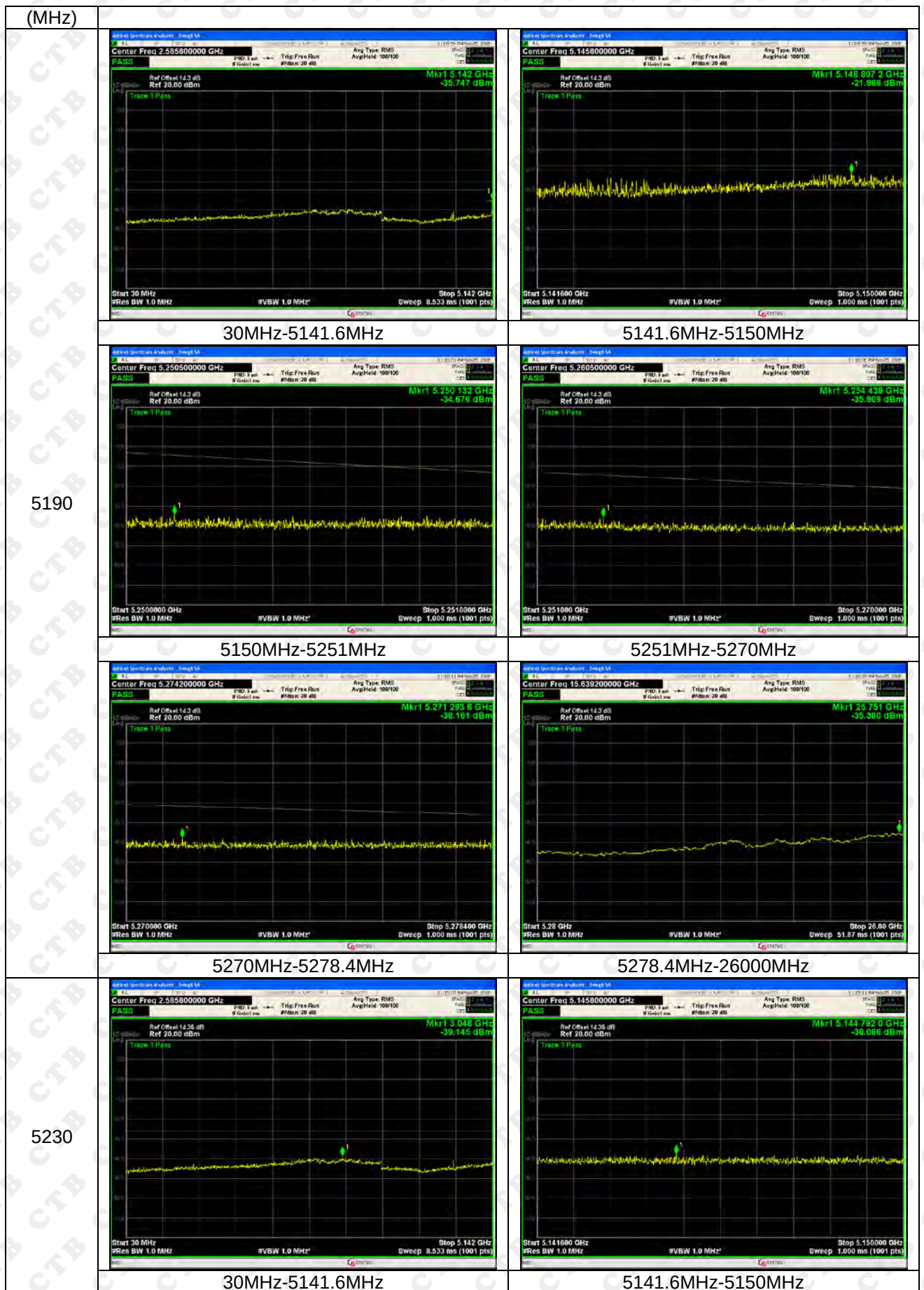


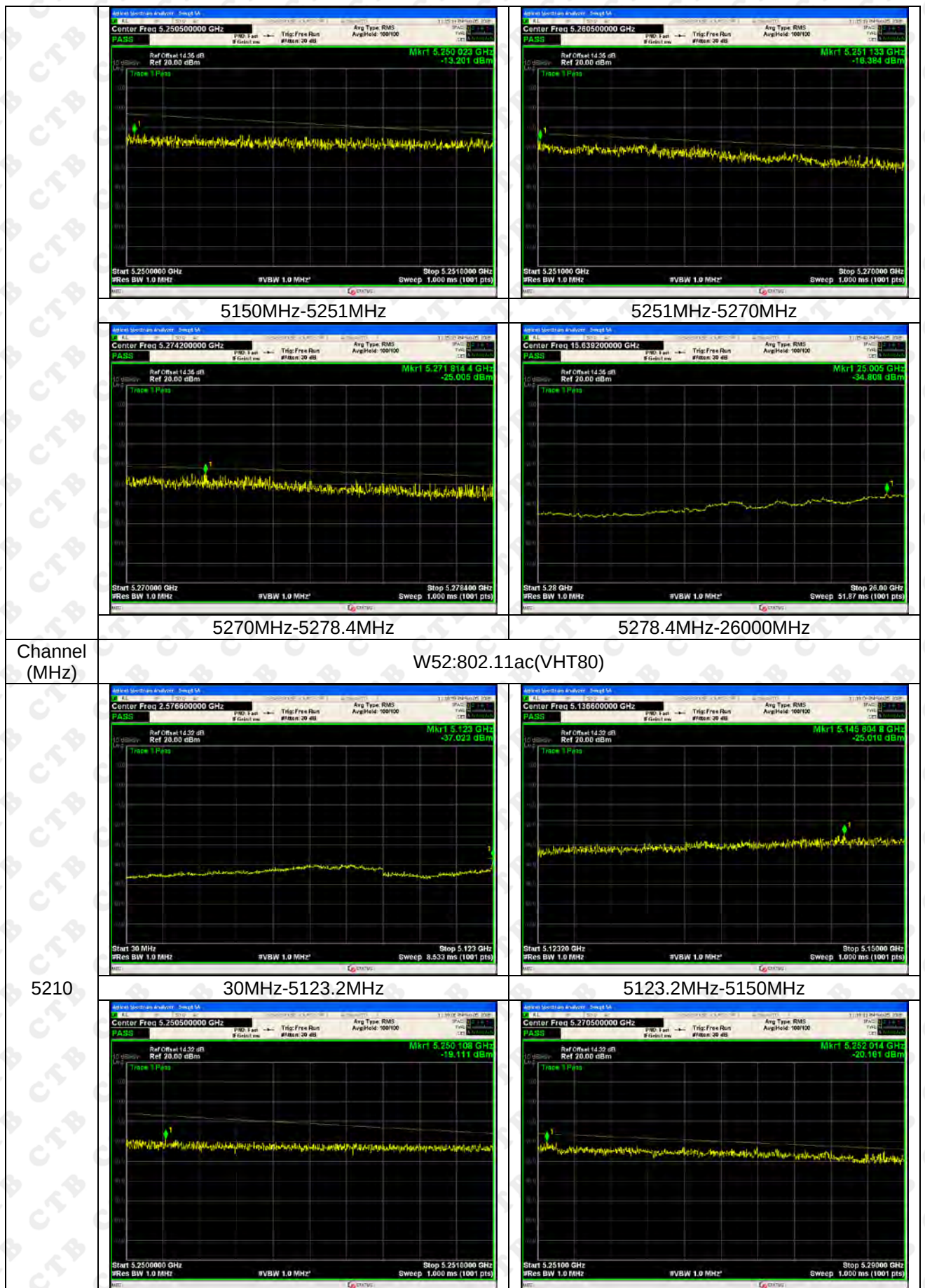


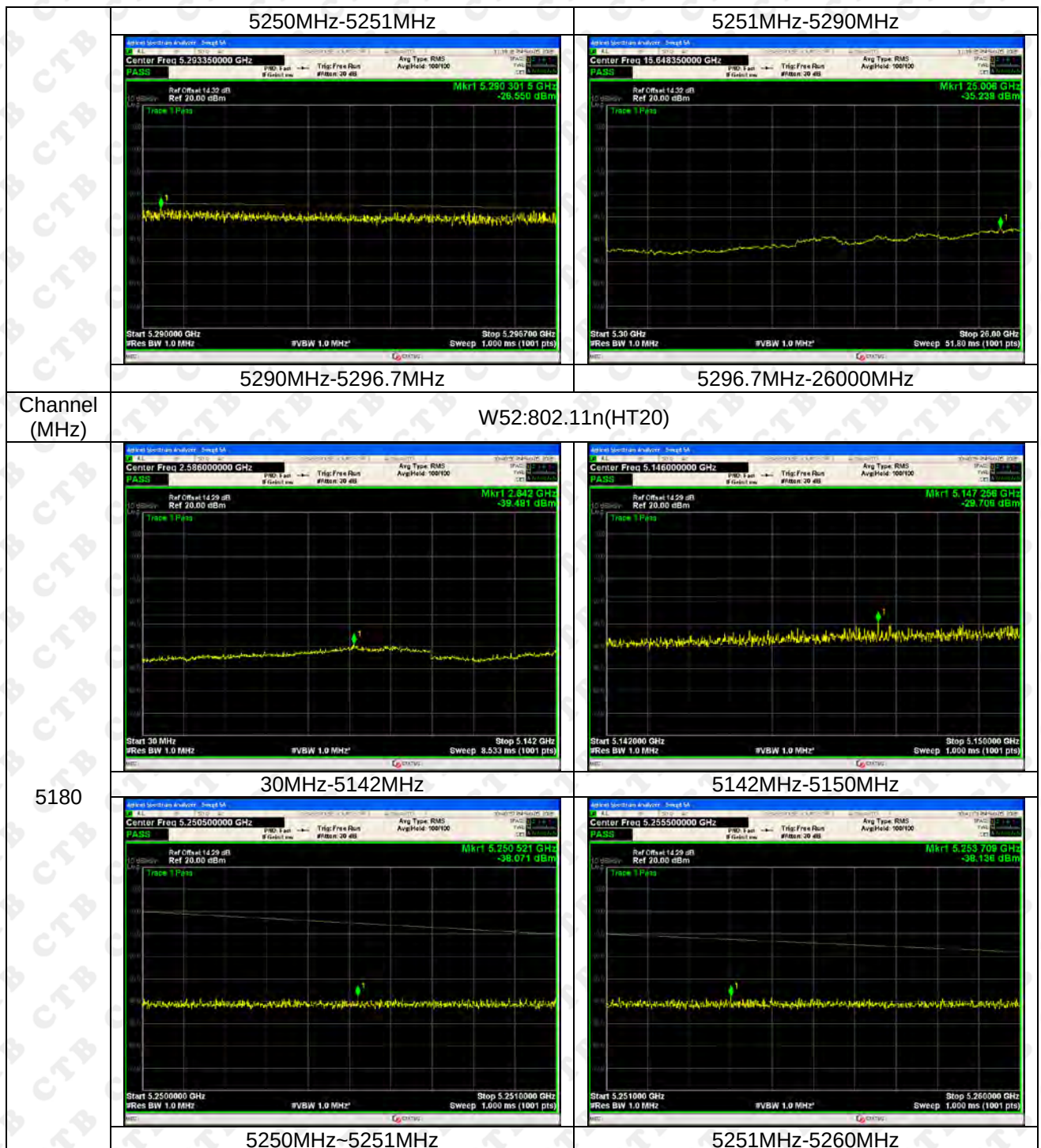


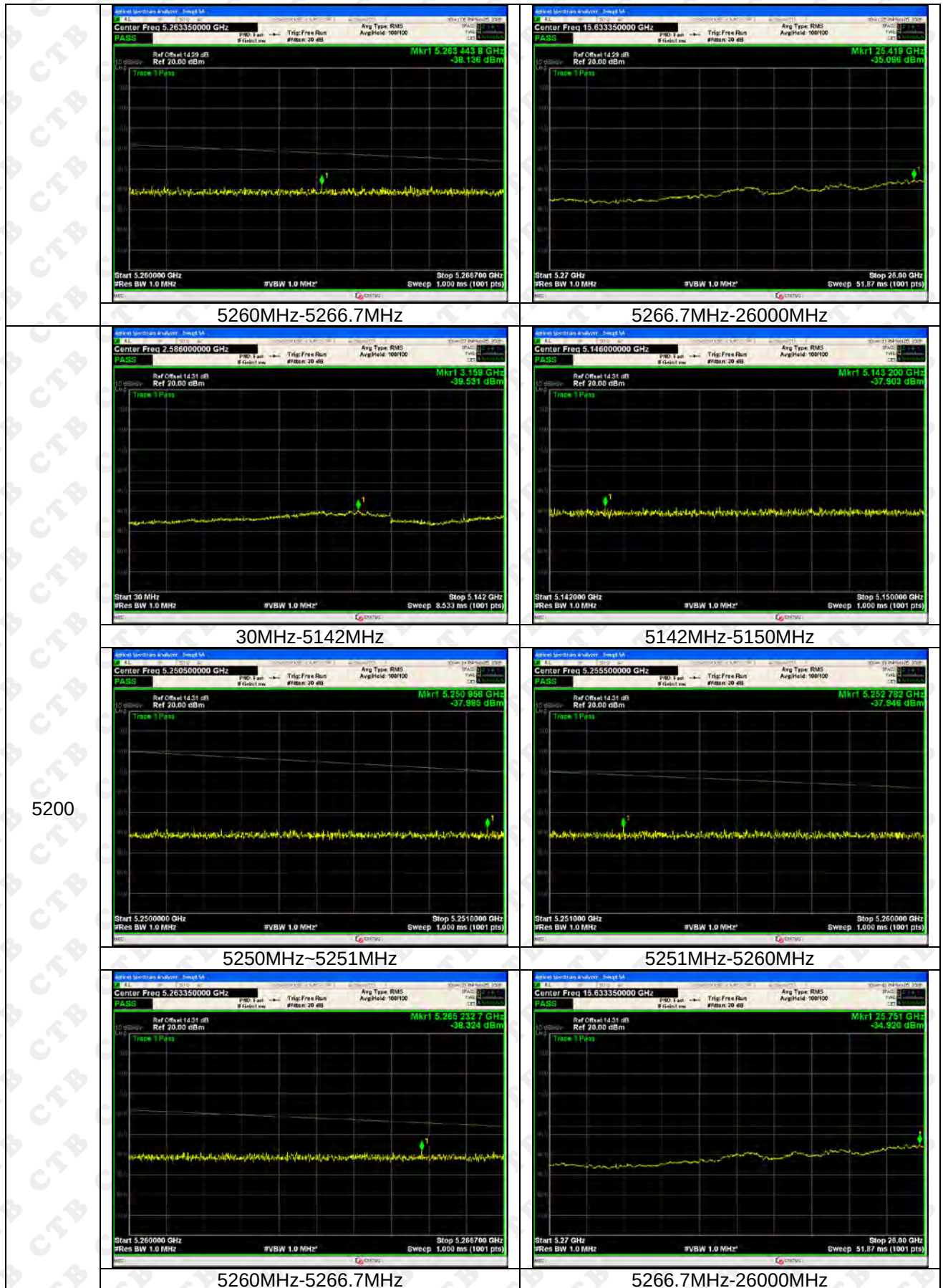


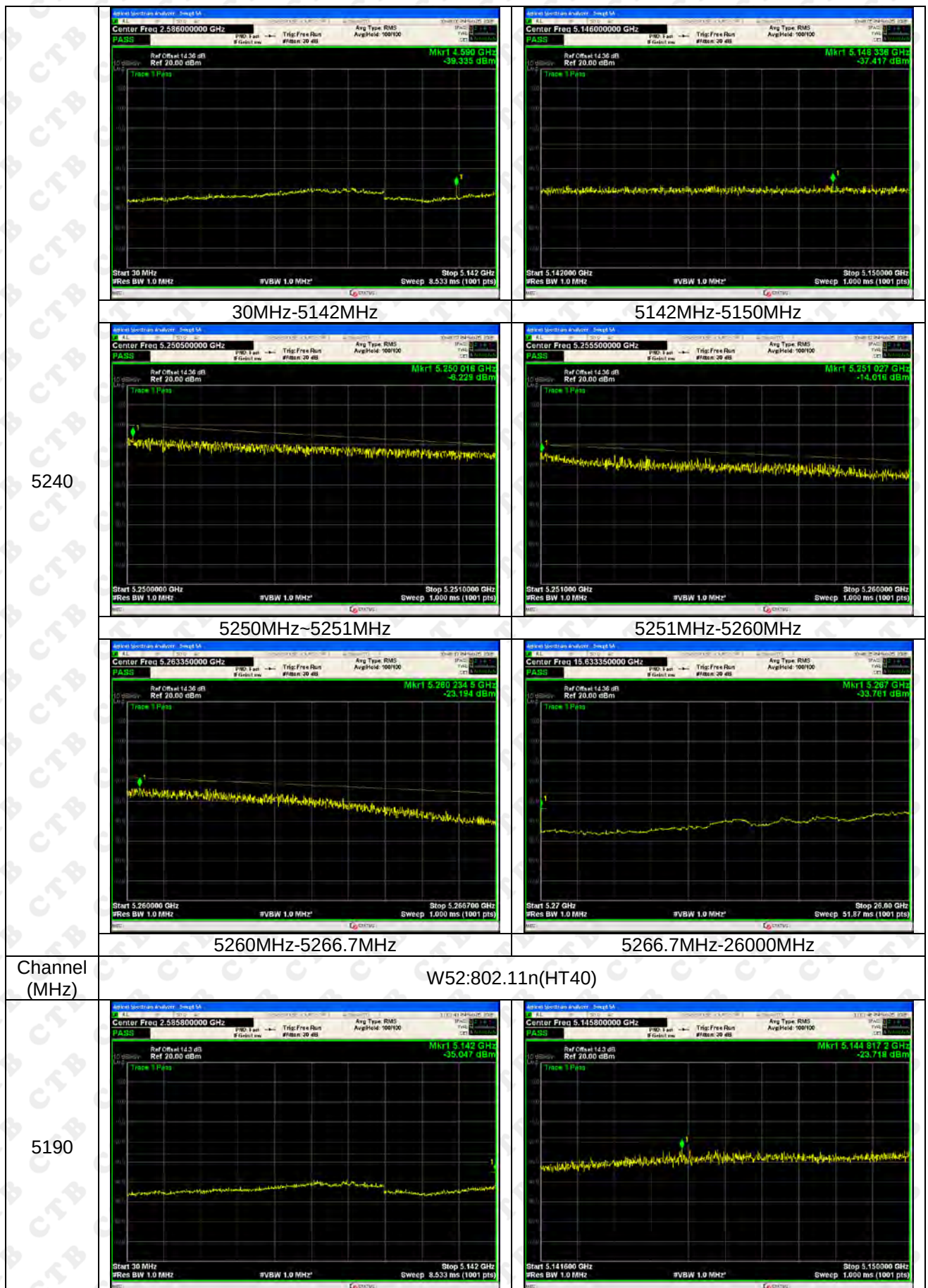


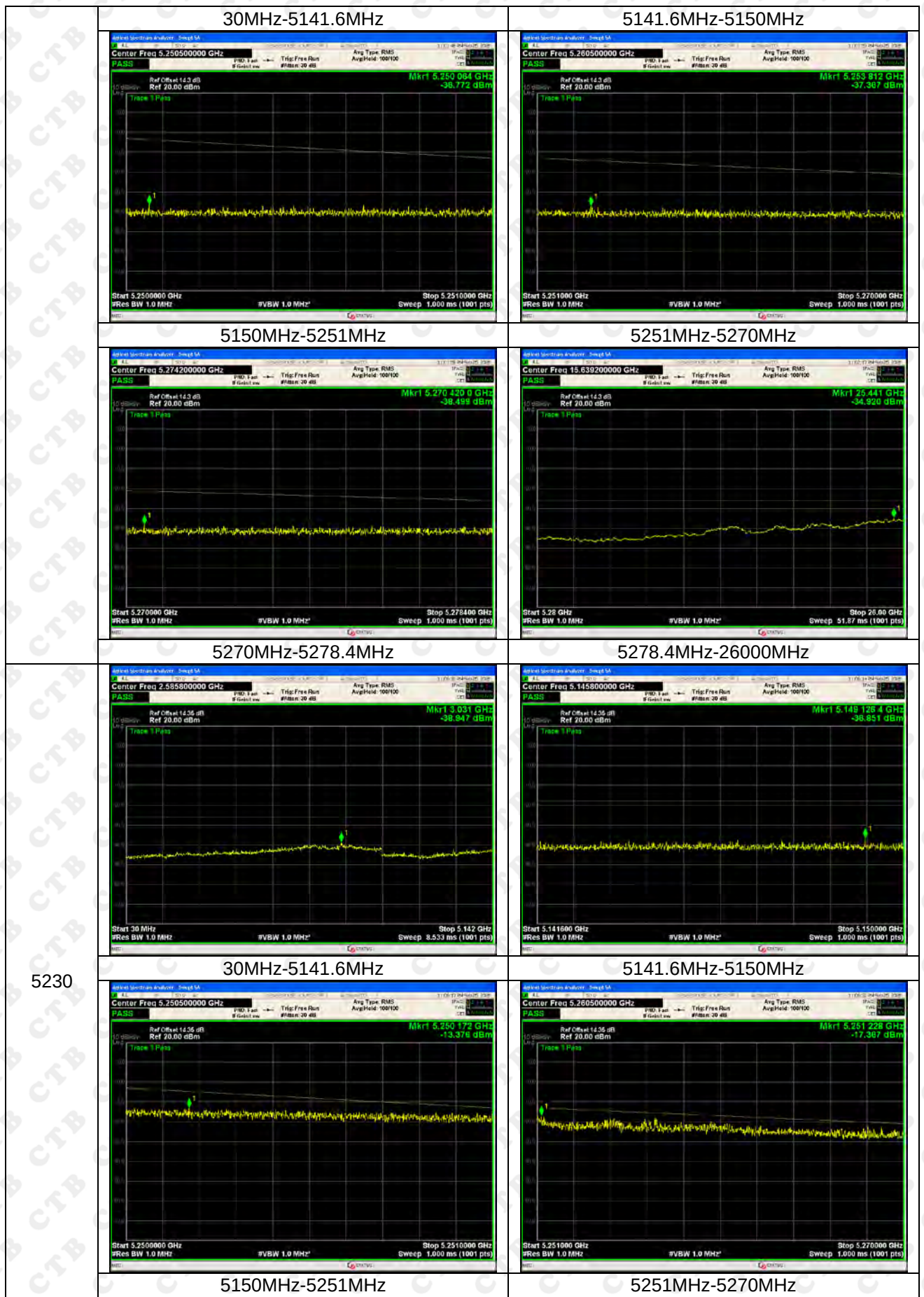


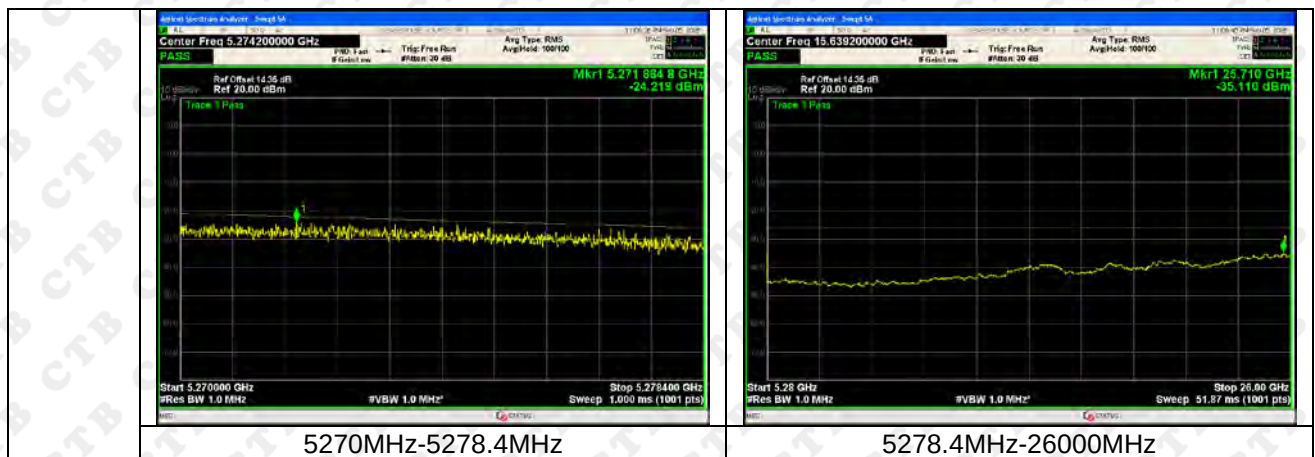




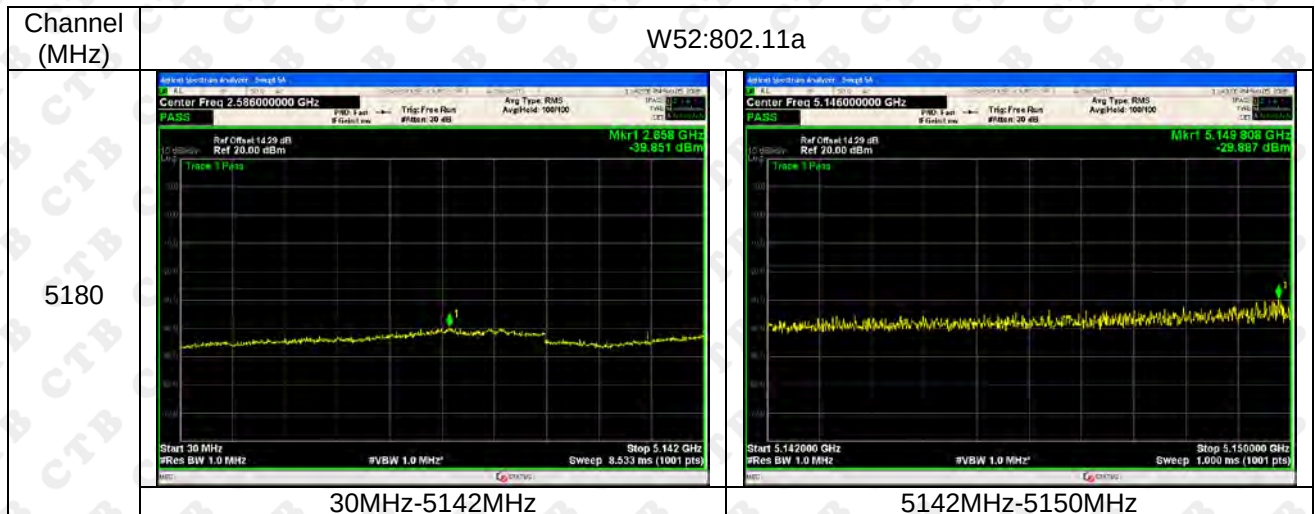


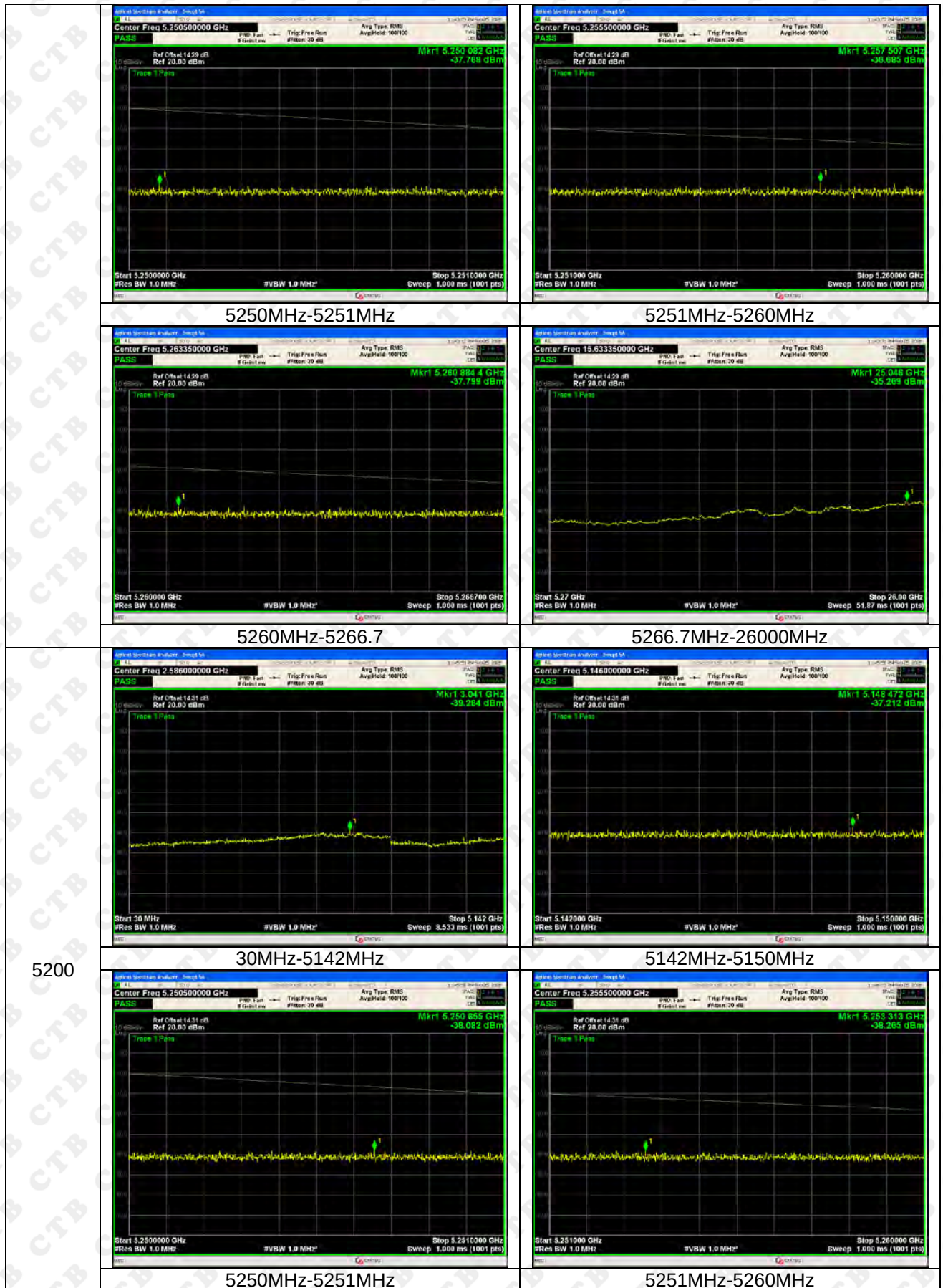


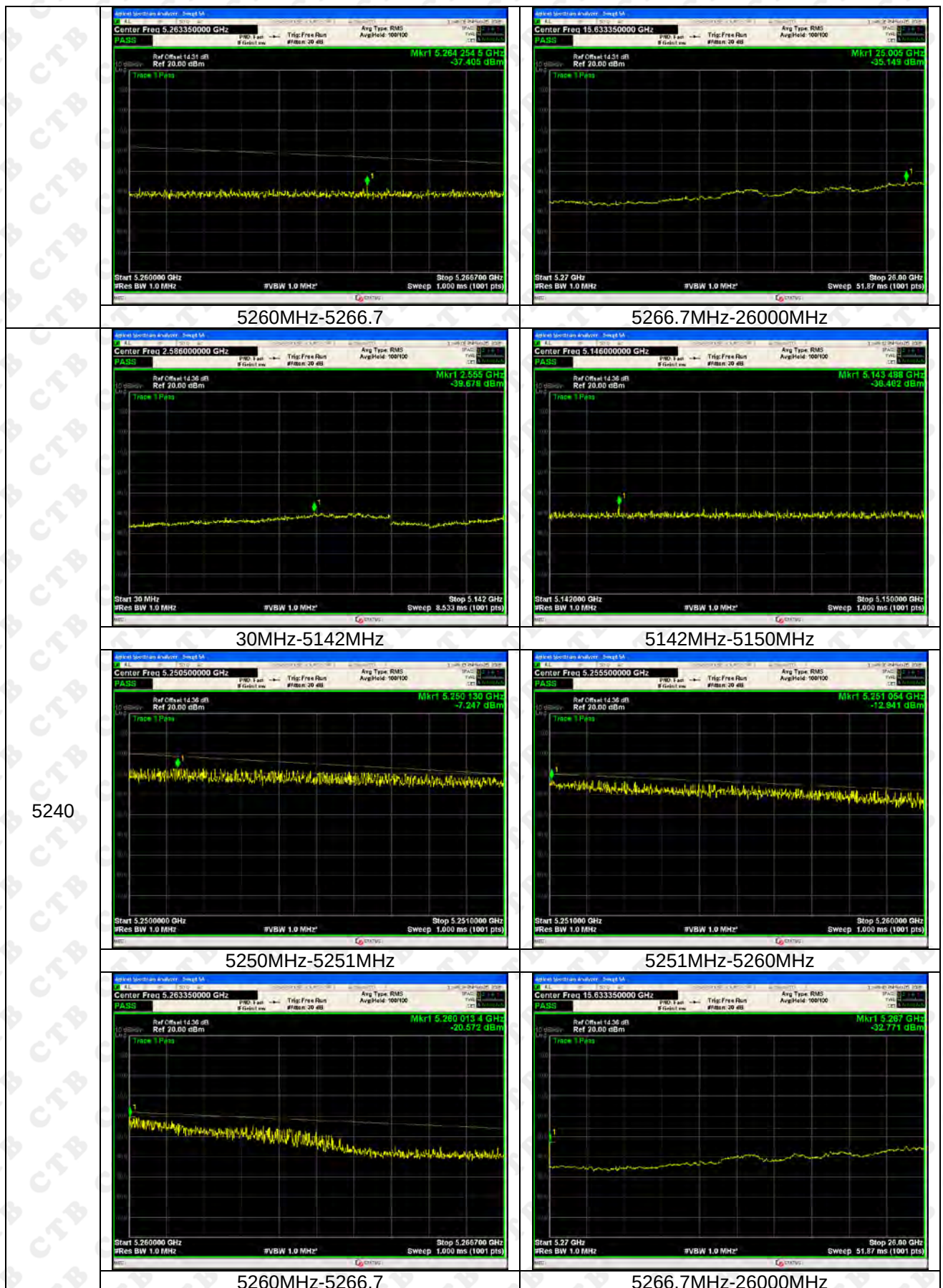




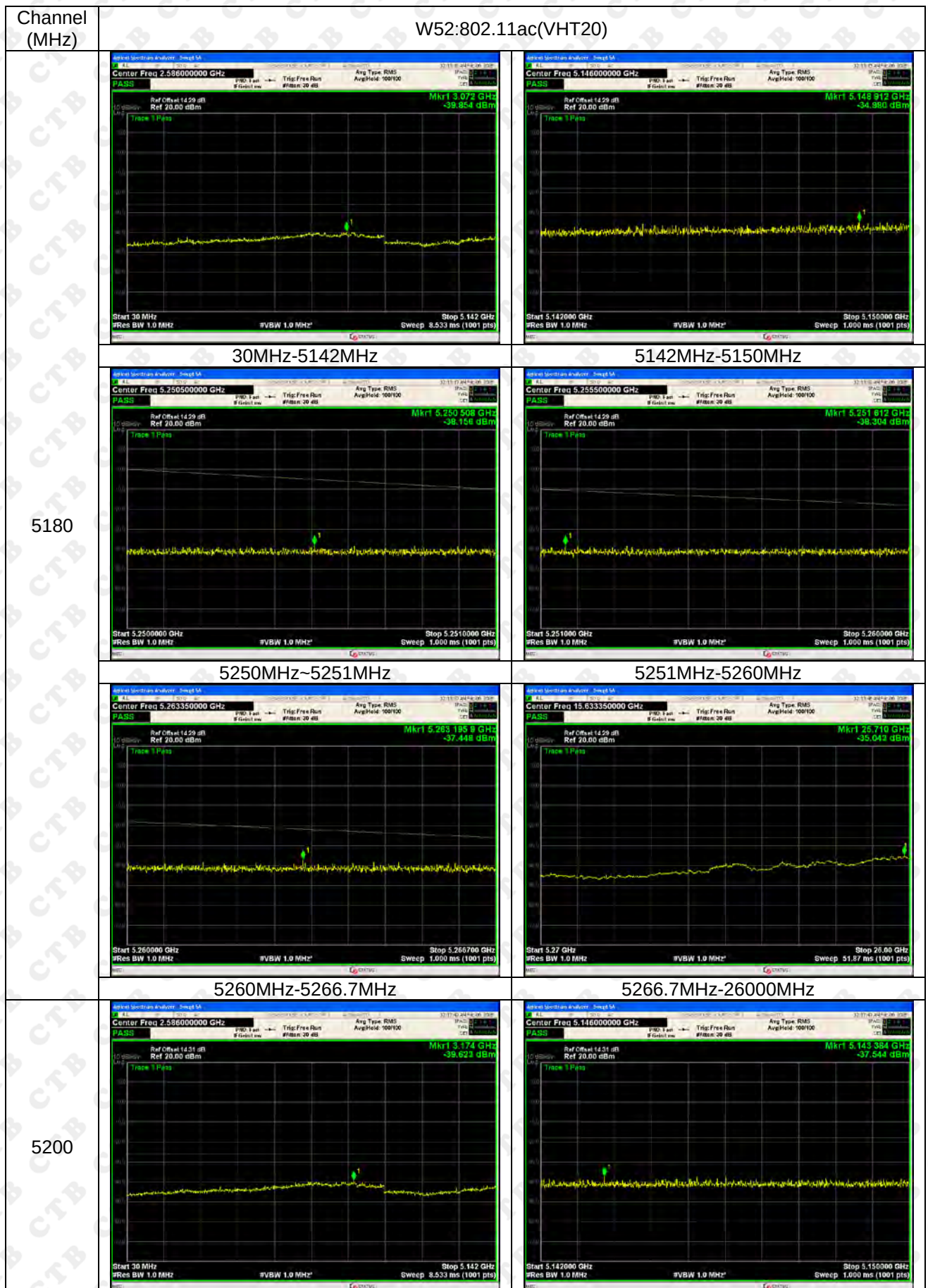
ANT 2

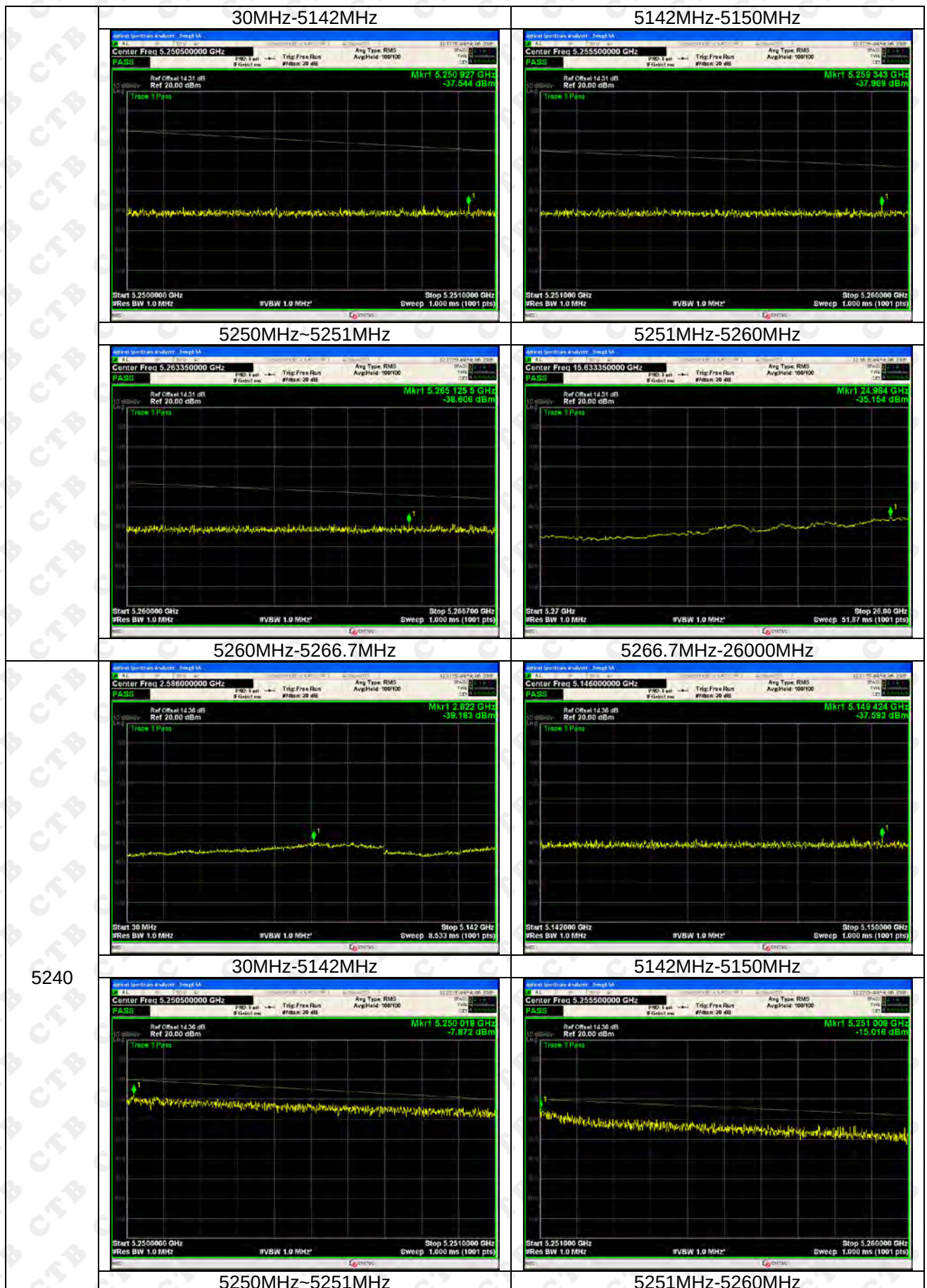


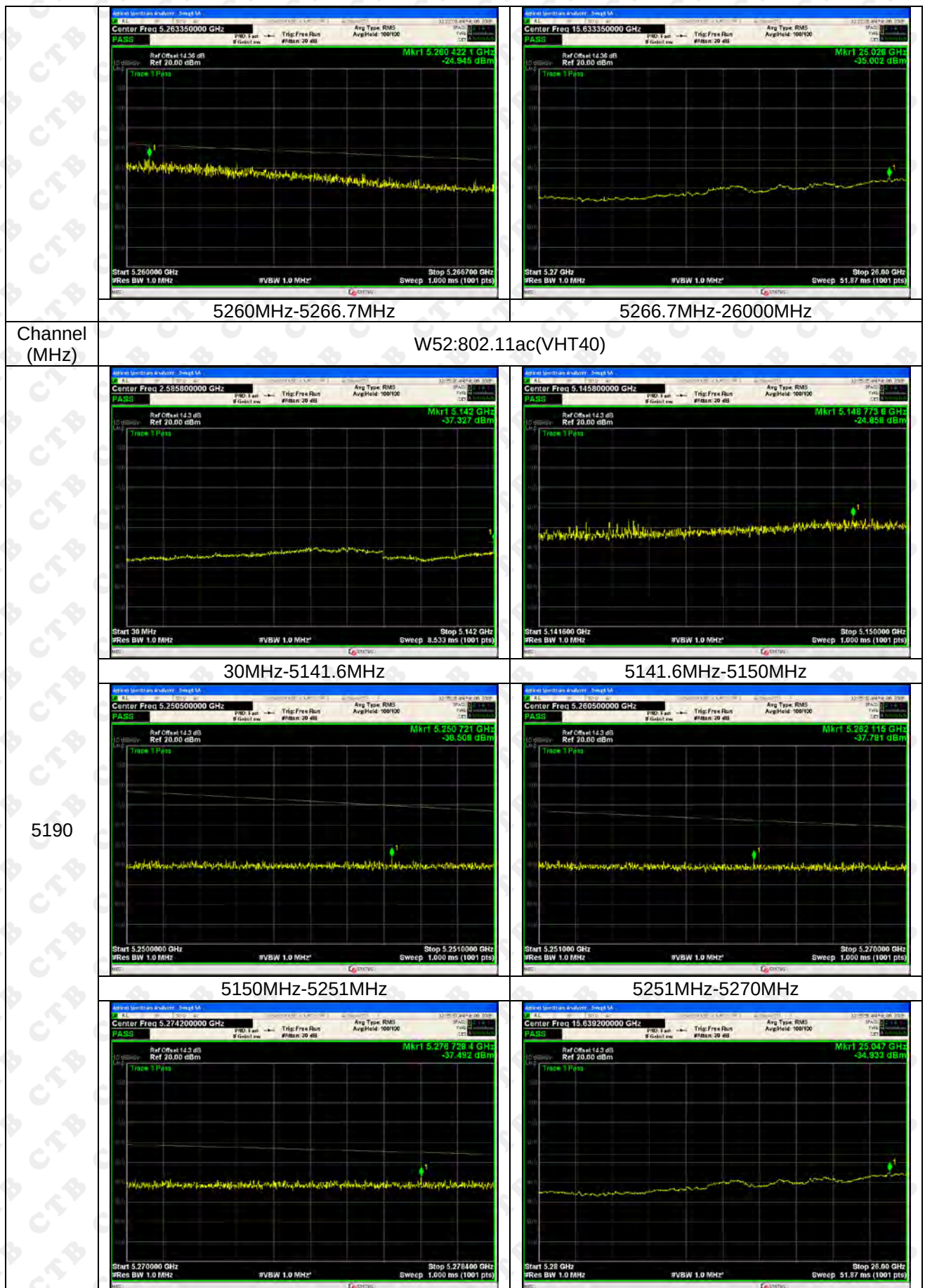


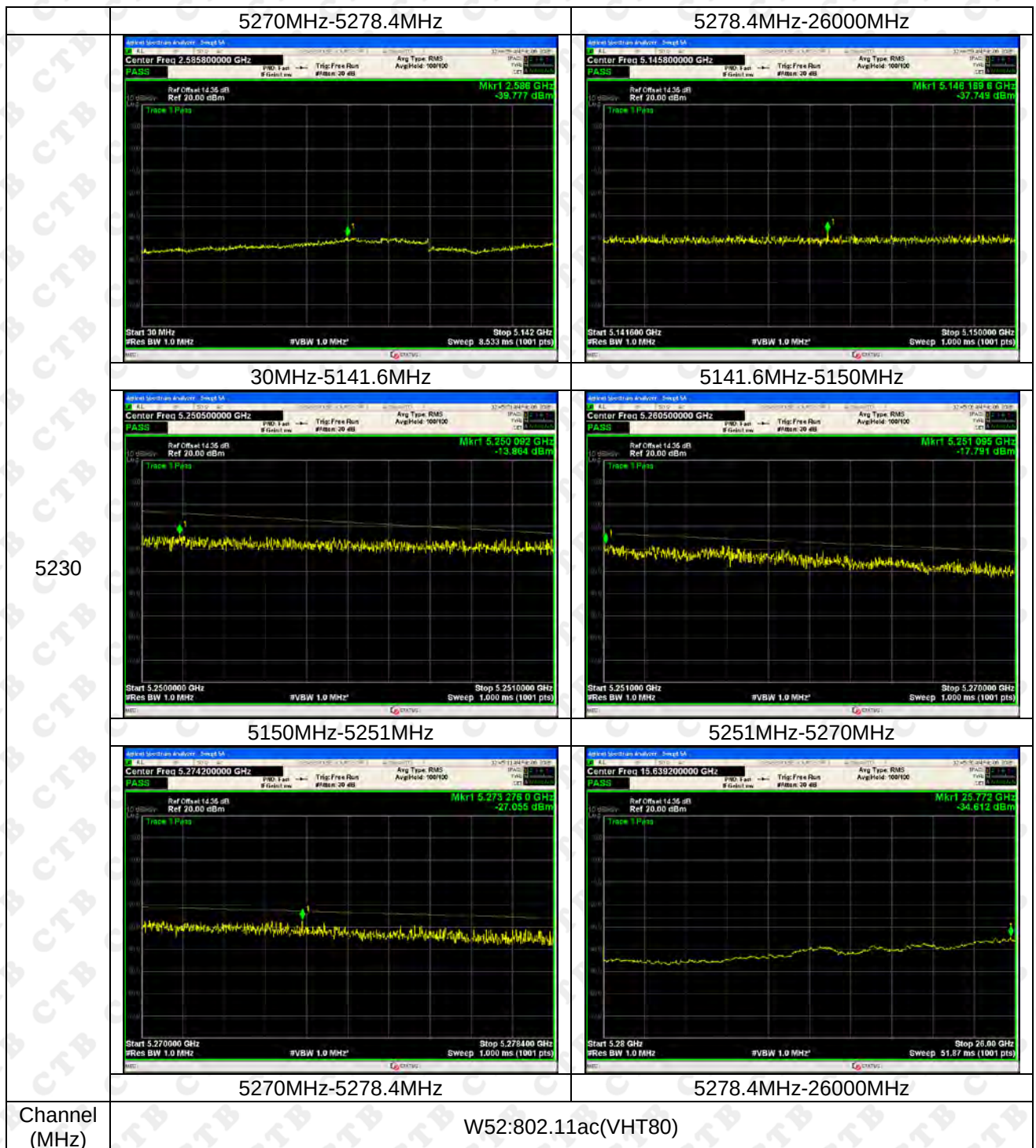


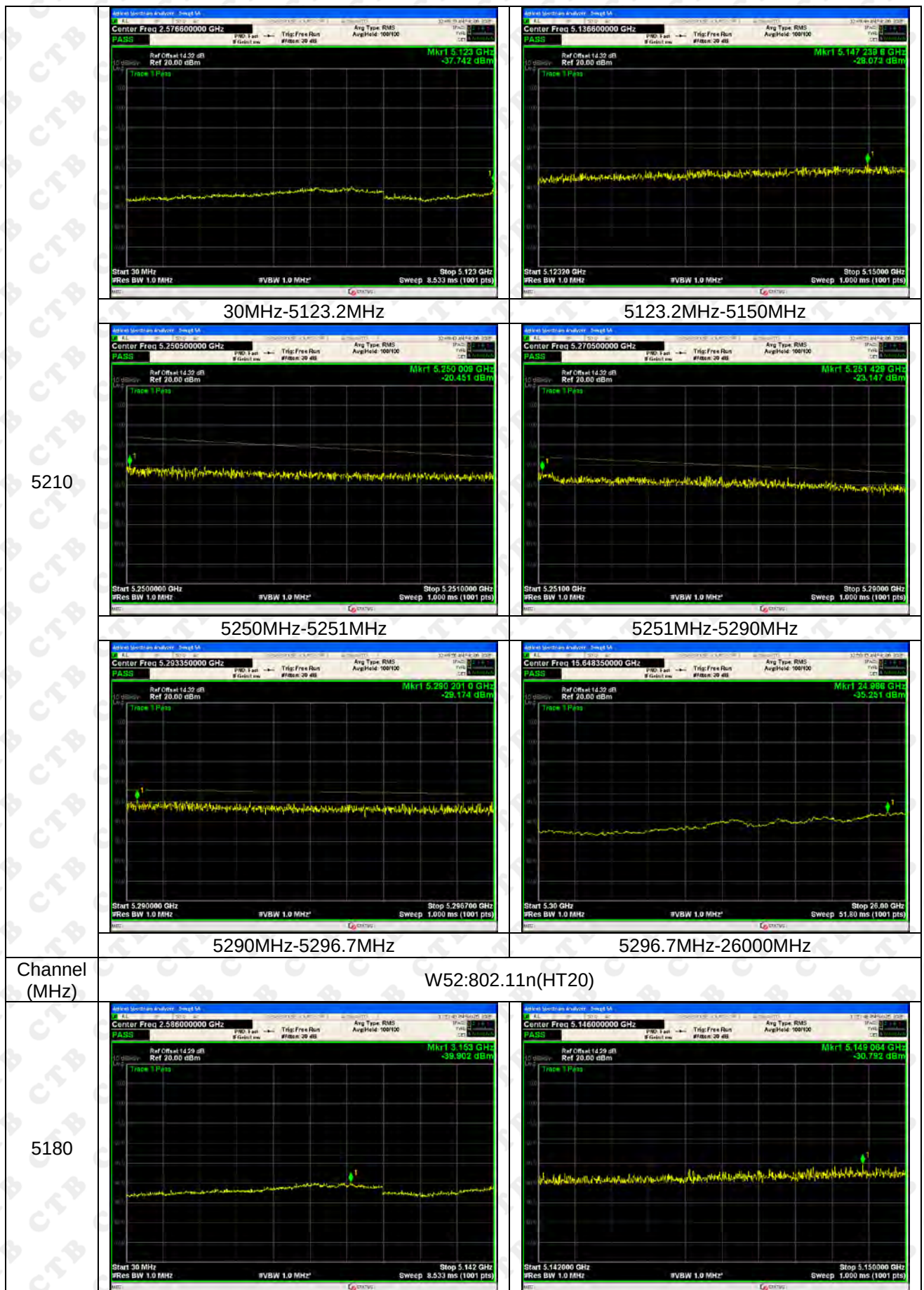
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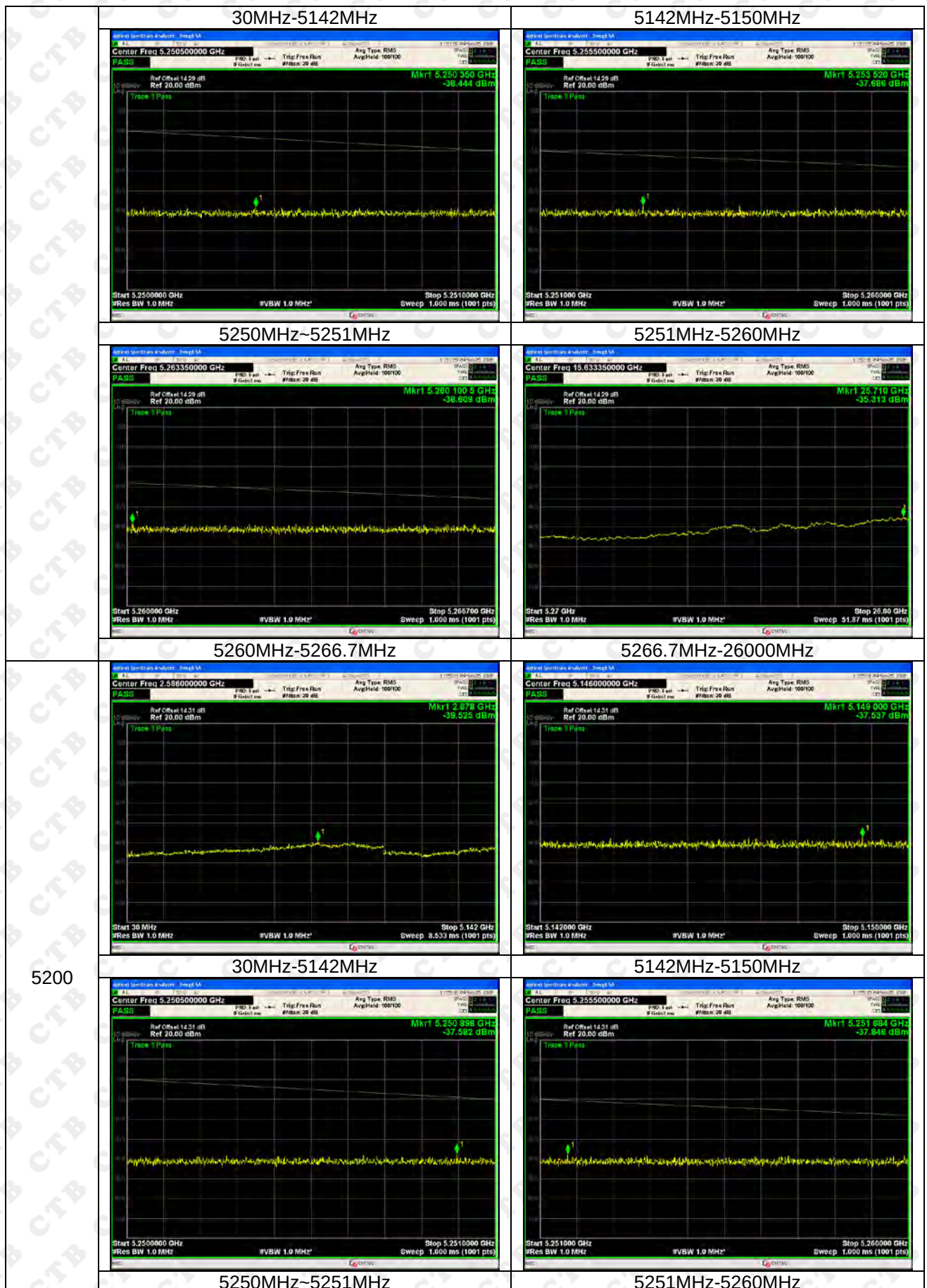


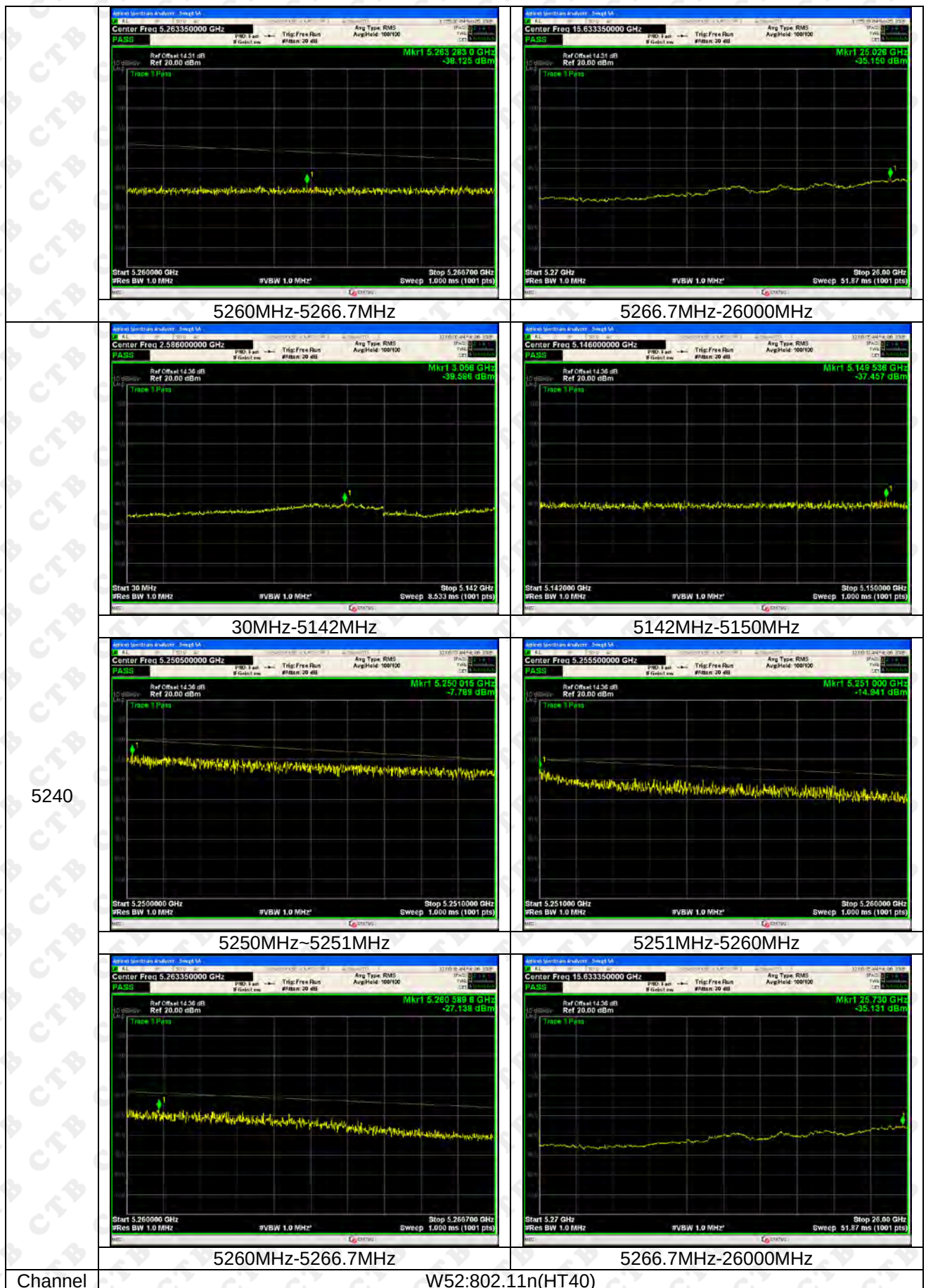


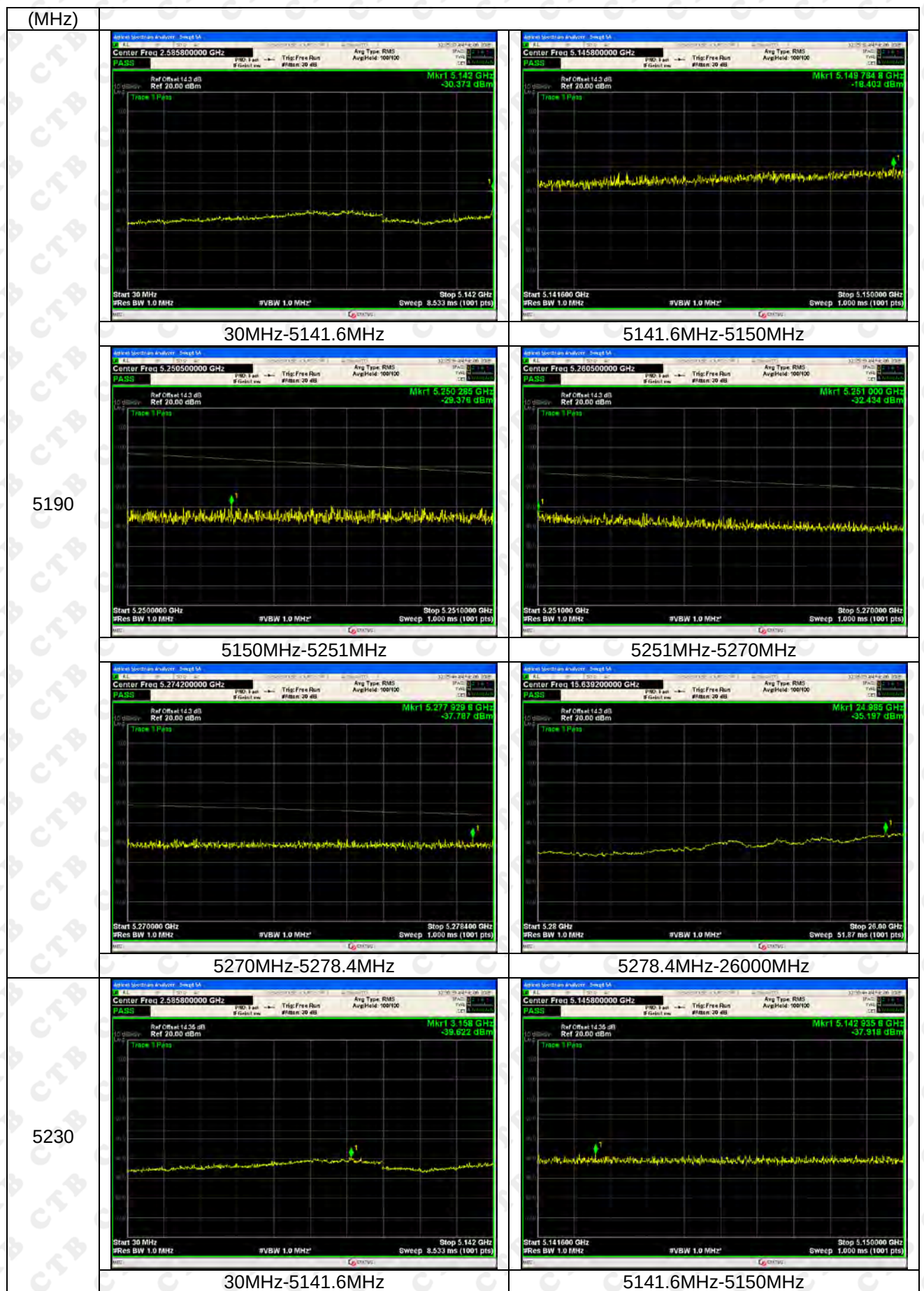


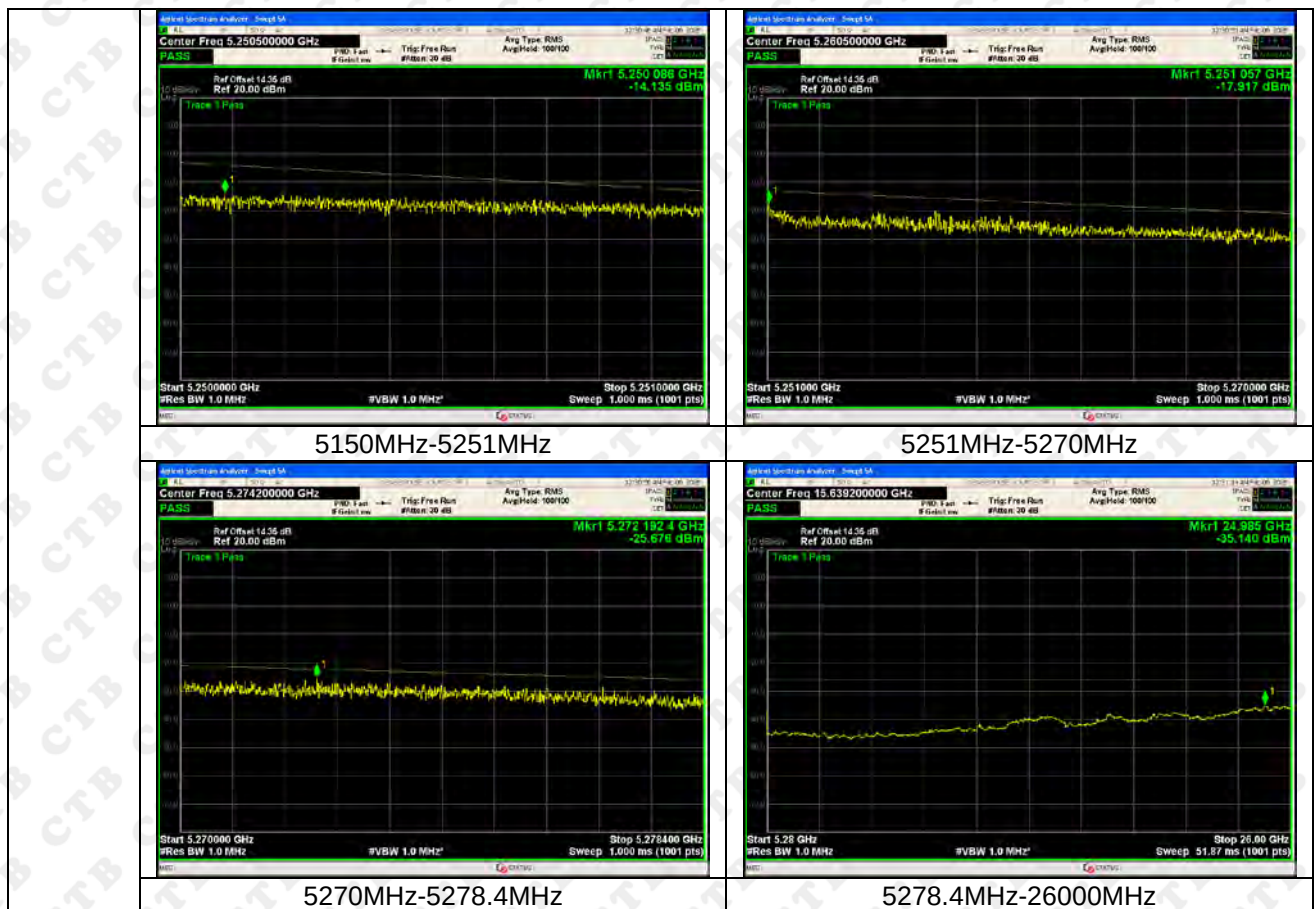












11. Interference Prevention Function

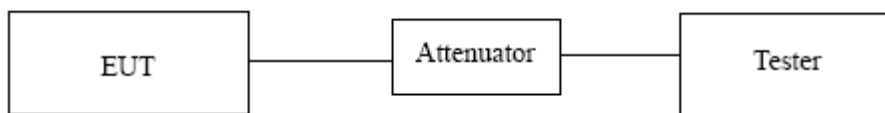
11.1 LIMIT

According to Item 19-3 of Article 2 Paragraph 1. The device shall have the function of automatic transmission or reception of identification code.

11.2 TEST PROCEDURE

1. Set the EUT in the usual operation condition
2. The radio equipment with automatic transmitting function of identification code
 - A. Transmit the assigned identification code from the radio equipment.
 - B. Confirm the identification code received by the demodulator.
3. The radio equipment with automatic receiving function of identification code
 - A. Transmit the assigned identification code from the opposite equipment.
 - B. Confirm that the usual communication is available.
 - C. Transmit the identification code distinct from the assigned one from the opposite equipment.
 - D. Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.
4. The identification function shall be recorded with "Good" or "No".

11.3 TEST SETUP LAYOUT



11.4 TEST RESULT

Transmitter:

The transmitting mode (the identification code is more than 48 bits) of EUT is on normal operating, the interference prevention function is good.

Receiver:

The transmitting mode of EUT is on normal operating, the interference prevention function is good.

MAC: 9C:A5:25:BA:87:F7

12. Carrier sense capability

12.1 LIMIT

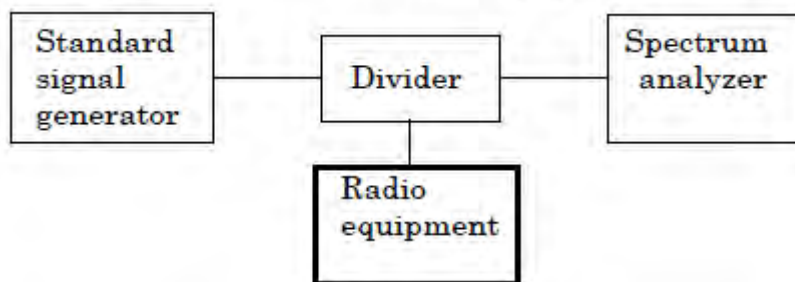
According to ORRE, art 49.20. The device shall have the carrier sensing function.

12.2 TEST PROCEDURE

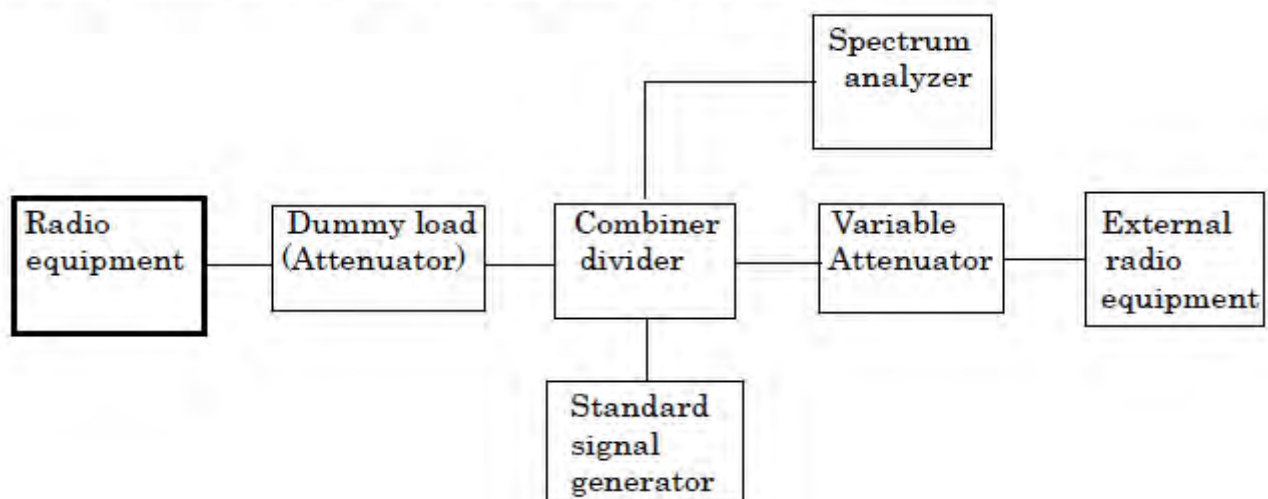
1. SG adjust the frequency as same as the EUT transmitted signal, unmodulation, power level 0dBm, Then turn off the RF signal
2. EUT have transmitted the maximum modulation signal and fixed channel
3. Setting of the SA following as RBW/VBW: 1/3MHz SPAN: 50MHz Sweep time: Auto continue PK
4. SG Signal on EUT shall be stop the transmitted, Then turn off the SG, The EUT shall be continuous transmitted signal.

12.3 TEST SETUP BLOCK DIAGRAM

(1) Test performed with the radio equipment to be tested only



(2) Test performed using the external radio equipment



12.4 TEST RESULT

EUT Stop RF transmission signal after carrier inject to EUT. Stop carrier inject, EUT will transmitting normal.)

13. Construction Protection Confirmation

13.1 Requirement

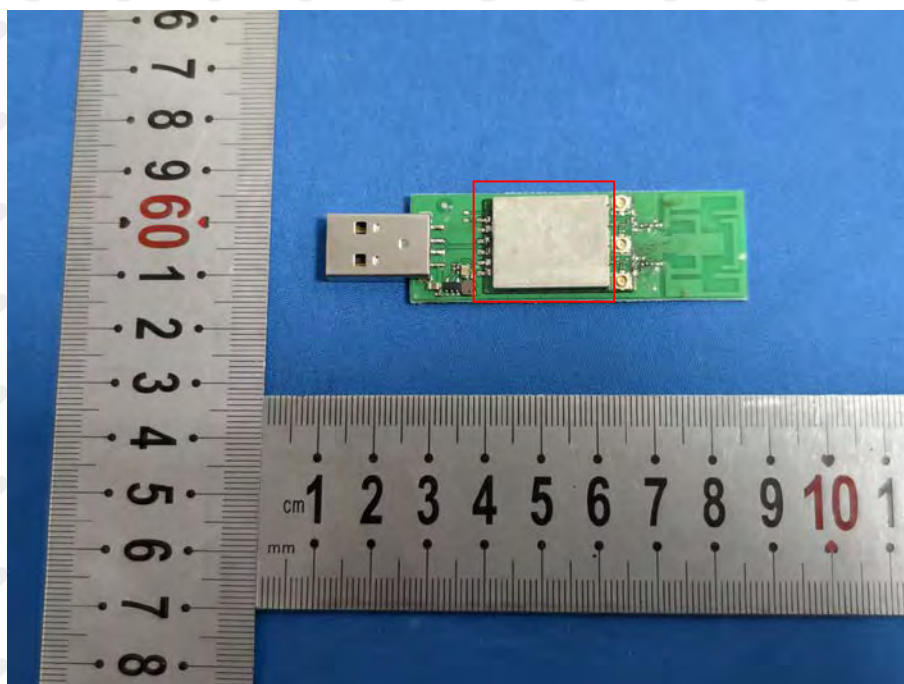
The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily

13.2 Confirmation method

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☒	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded ant RF and modulations parts, and ID-ROM is welded using BGA Method.
☐	Shield case is welded ant RF and modulations parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded ant RF and modulations parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other: All RF and modulation section packet in one IC, and IC is welded using BGA Method, and RF module is welded on the main board, end-User can't open it easily.

13.3 The photos of construction protection

The red circle is welding point.



14 Transmission Burst Length

14.1 LIMIT

8ms or less

14.2 TEST PROCEDURE

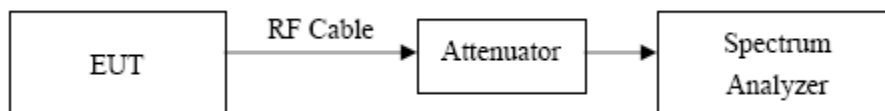
Enable EUT under transmission mode and connected it to the spectrum analyzer through antenna output port as the block diagram show in TEST CONFIGURATION

Use Spectrum's ACP measurement function and set spectrum analyzer as follow:

Spectrum Condition:

- (1) Frequency: test frequency
- (2) Span: 0Hz, RBW: 1MHz, VBW: 3MHz, Sweep time: Auto, Sweep mode: single
- (3) Detector mode: Peak, Indication mode: Max hold

14.3 TEST SETUP BLOCK DIAGRAM



14.4 TEST RESULT

W52 ANT 1

Normal Voltage			
Mode	Channel (MHz)	Read Level(dBm)	Limit (ms)
802.11a	LCH	0.175	8ms or less
	MCH	0.174	
	HCH	0.174	
802.11ac(VHT20)	LCH	0.146	
	MCH	0.147	
	HCH	0.146	
802.11ac(VHT40)	LCH	0.090	
	MCH	/	
	HCH	0.091	
802.11ac(VHT80)	LCH	/	
	MCH	0.066	
	HCH	/	
802.11n(HT20)	LCH	0.179	
	MCH	0.162	
	HCH	0.162	
802.11n(HT40)	LCH	0.098	
	MCH	/	
	HCH	0.098	

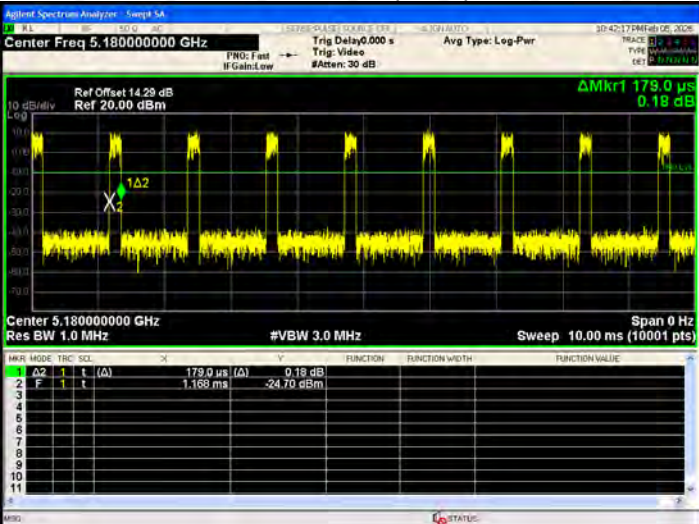
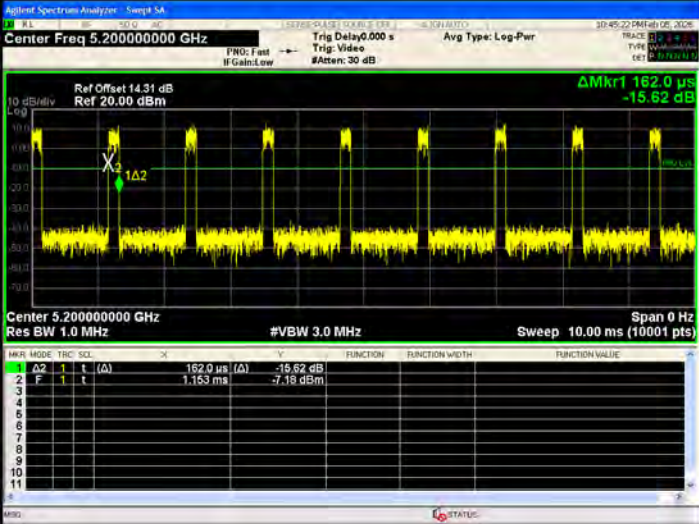
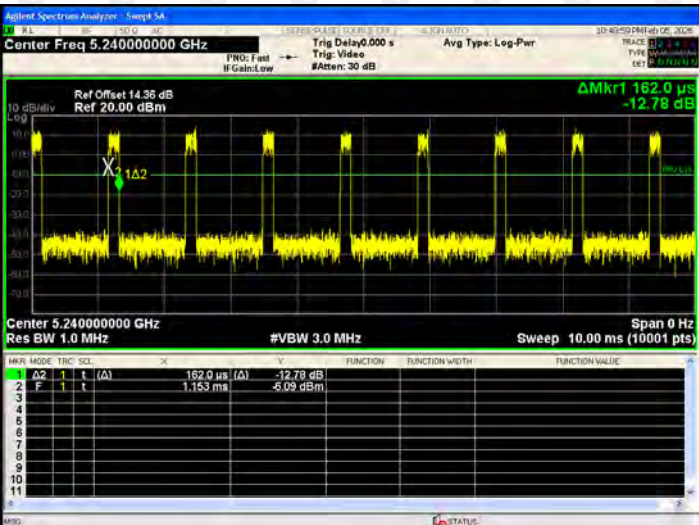
W52 ANT 2

Normal Voltage			
Mode	Channel (MHz)	Read Level(dBm)	Limit (ms)
802.11a	LCH	0.174	8ms or less
	MCH	0.175	
	HCH	0.174	
802.11ac(VHT20)	LCH	0.146	
	MCH	0.146	
	HCH	0.146	
802.11ac(VHT40)	LCH	0.090	
	MCH	/	
	HCH	0.091	
802.11ac(VHT80)	LCH	/	
	MCH	0.066	
	HCH	/	
802.11n(HT20)	LCH	0.162	
	MCH	0.162	
	HCH	0.163	
802.11n(HT40)	LCH	0.107	
	MCH	/	
	HCH	0.098	

Test graph

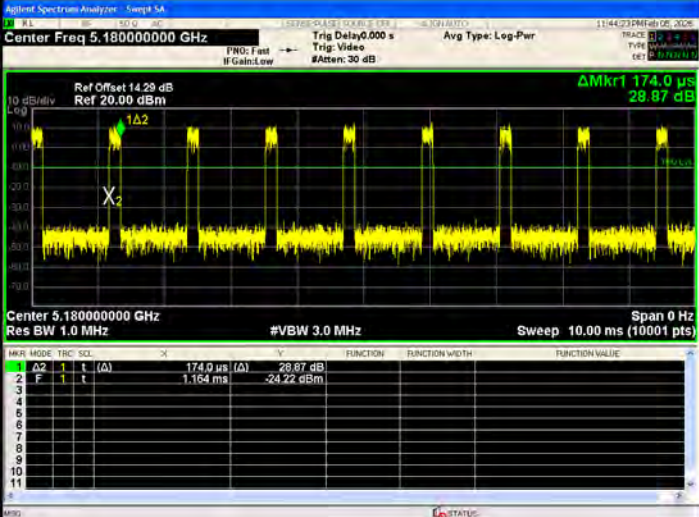
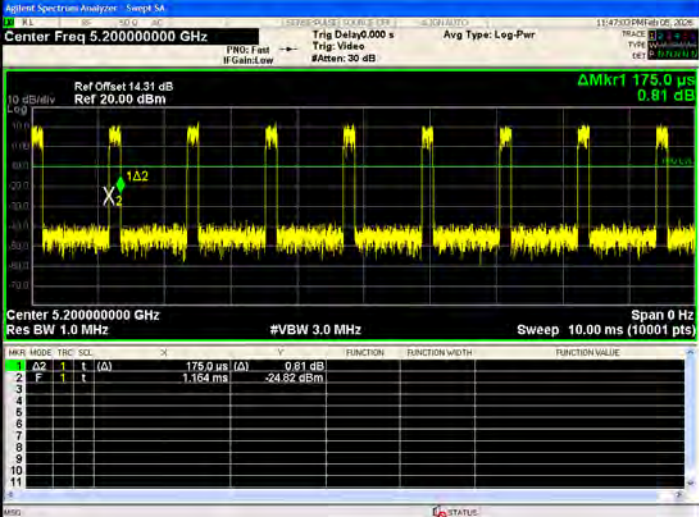
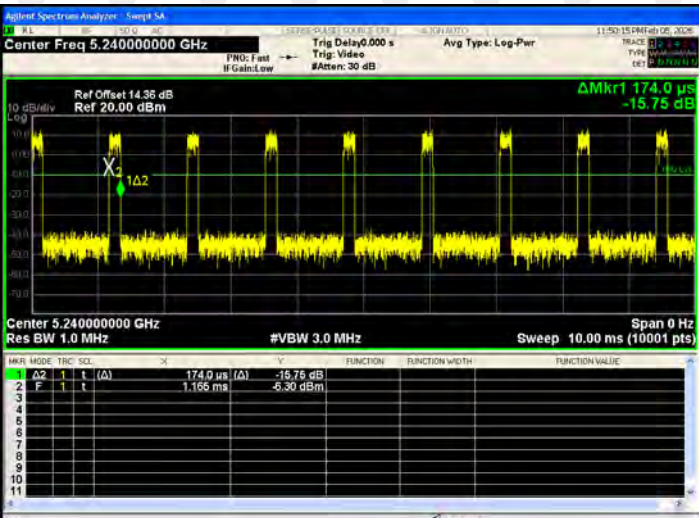
ANT 1

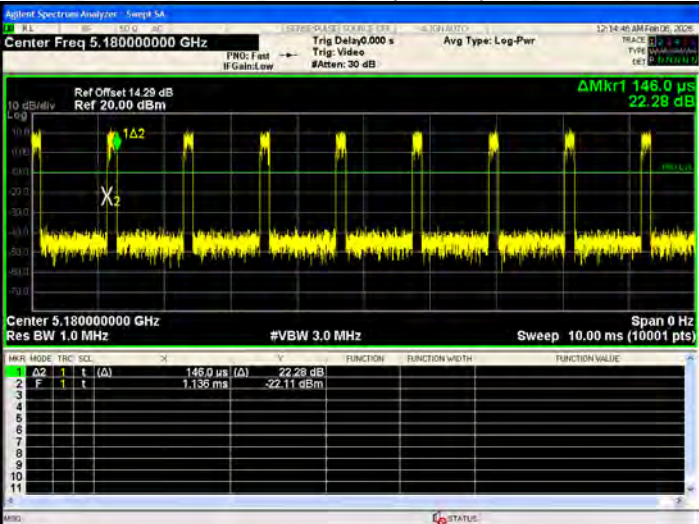
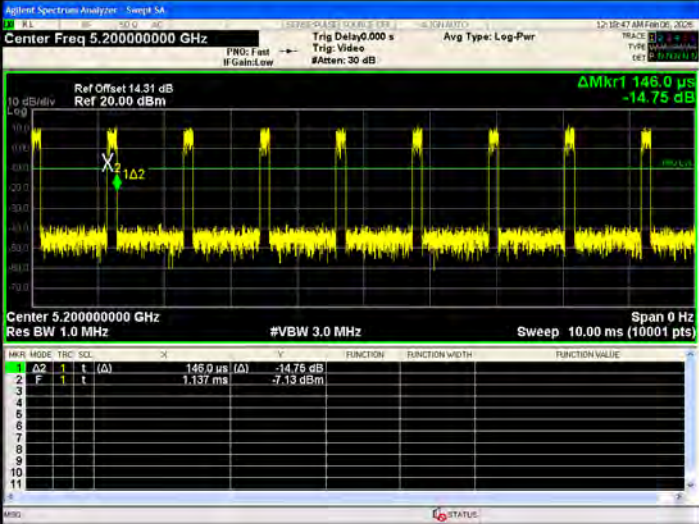
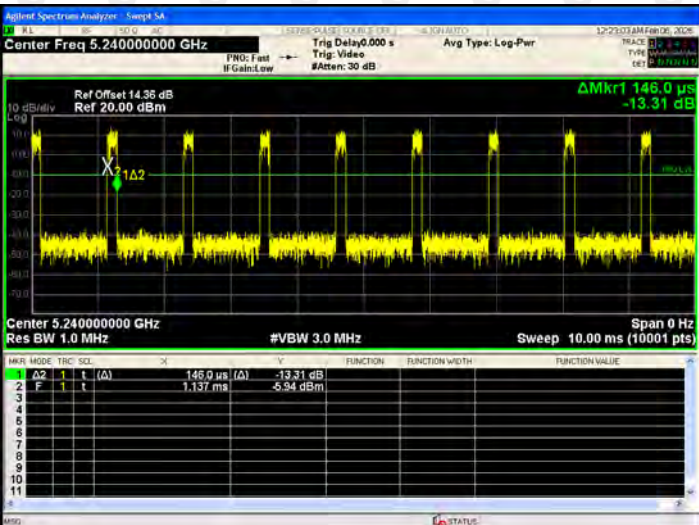


Channel(MHz)	W52:802.11n(HT20)
5180	
5200	
5240	

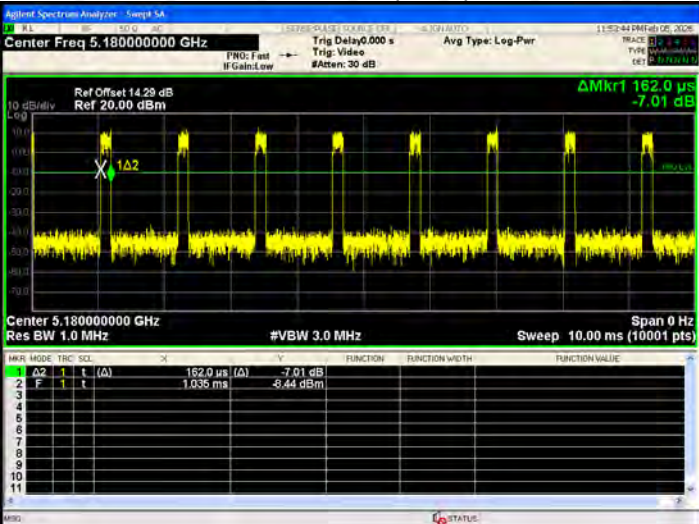
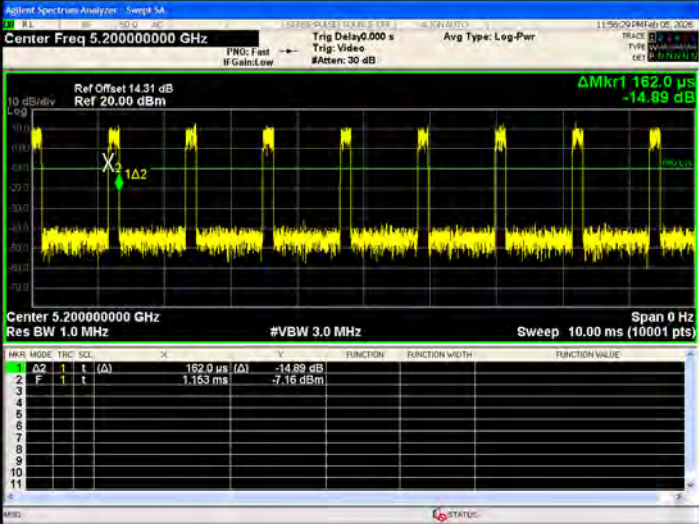
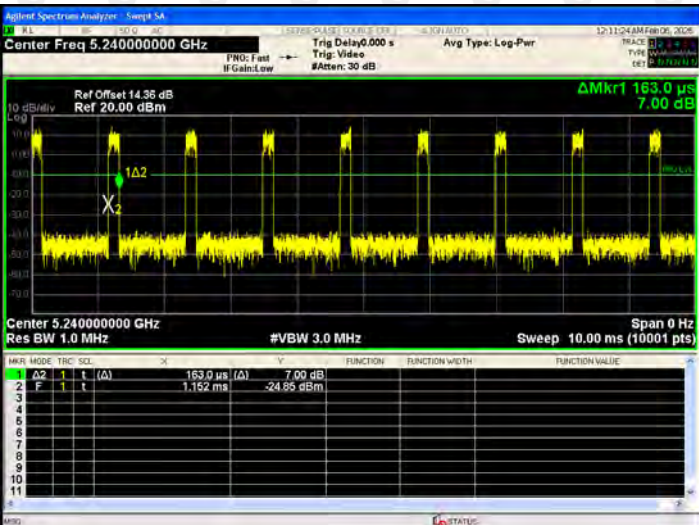
Web: <http://www.ctb-lab.net> Page 96 of 116

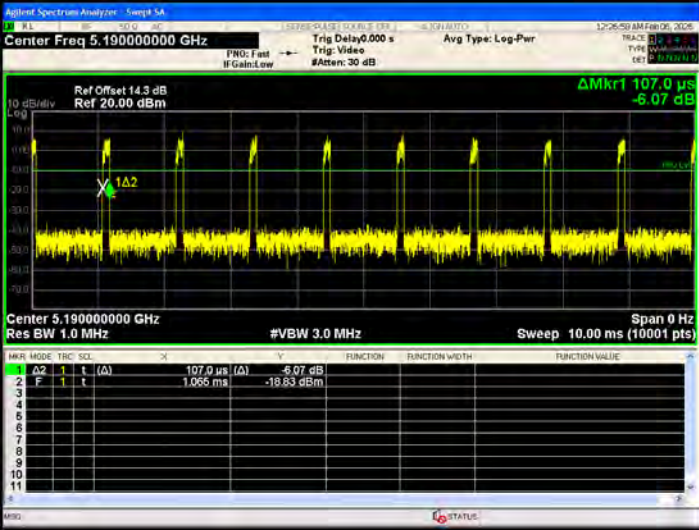
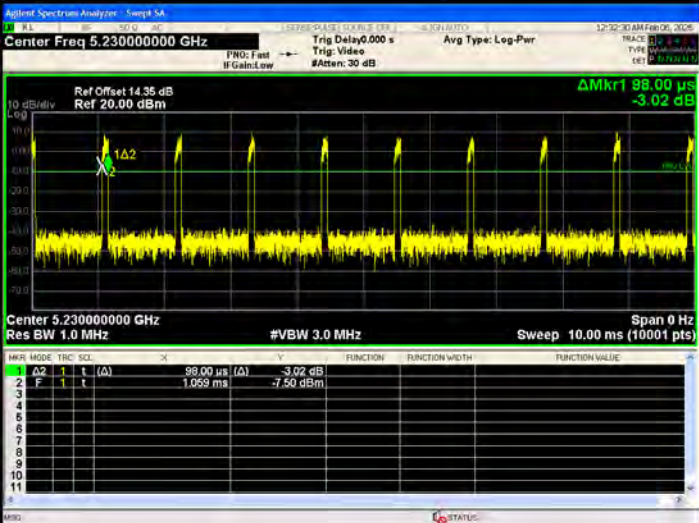
ANT 2

Channel(MHz)	W52:802.11a
5180	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.180000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) Span 0 Hz Ref Offset 14.29 dB Ref 20.00 dBm ΔMkr1 174.0 μs 28.87 dB X2 1.164 ms -24.22 dBm
5200	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.200000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) Span 0 Hz Ref Offset 14.31 dB Ref 20.00 dBm ΔMkr1 175.0 μs 0.81 dB X2 1.164 ms -24.82 dBm
5240	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.240000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) Span 0 Hz Ref Offset 14.35 dB Ref 20.00 dBm ΔMkr1 174.0 μs -15.75 dB X2 1.164 ms -24.38 dBm

Channel(MHz)	W52:802.11ac(VHT20)
5180	
5200	
5240	

Channel(MHz)	W52:802.11ac(VHT40)																																																																																																																																																																																																																																																																																																						
5190	Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.190000000 GHz Trig Delay 0.000 s Avg Type: Log-Pwr Ref Offset 14.5 dB Ref 20.00 dBm 10 dBm/div Log ΔMkr1 90.00 μs -14.09 dB Center 5.190000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>A2</td><td>1</td><td>t</td><td>(A)</td><td>90.00 μs (A)</td><td>-14.09 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>1.038 ms</td><td>-47.1 dBm</td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> <tr><td>5230</td><td> Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.230000000 GHz Trig Delay 0.000 s Avg Type: Log-Pwr Ref Offset 14.35 dB Ref 20.00 dBm 10 dBm/div Log ΔMkr1 91.00 μs 0.54 dB Center 5.230000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>A2</td><td>1</td><td>t</td><td>(A)</td><td>91.00 μs (A)</td><td>0.54 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>1.069 ms</td><td>-21.48 dBm</td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> <tr><th>Channel(MHz)</th><th>W52:802.11ac(VHT80)</th></tr><tr><td>5210</td><td> Agilent Spectrum Analyzer - 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Channel(MHz)	W52:802.11n(HT20)
5180	
5200	
5240	

Channel(MHz)	W52:802.11n(HT40)
5190	
5230	

15 Secondary Radiated Emitted Power

15.1 LIMIT

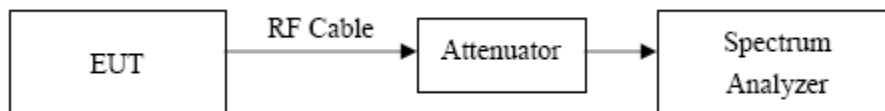
According to Item 19-3 of Article 2 Paragraph 1. The receiver spurious emissions shall not exceed the following limit:

- (1) Below 1GHz : 4nW/100kHz or less
- (2) 1GHz or more : 20nW/MHz or more

15.2 TEST PROCEDURE

- (1) A spectrumIn case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the receiving mode.
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (5) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (6) Repeat above procedures until all frequency measured was complete.

15.3 TEST SETUP BLOCK DIAGRAM



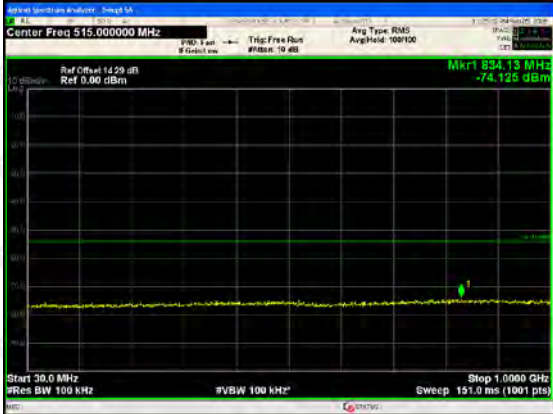
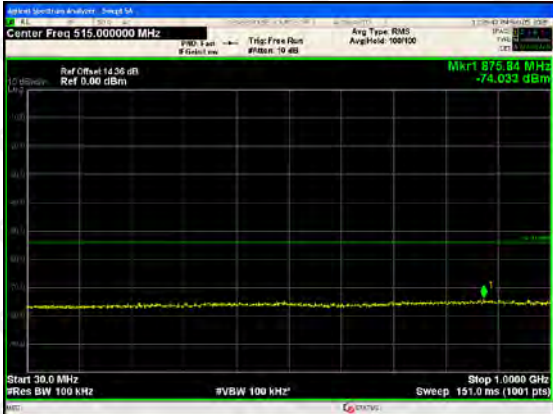
15.4 TEST RESULT
W52 ANT 1

Normal Voltage						
Mode	Channel (MHz)	Frequency(MHz)	Mkr(MHz)	Test result(dBm)	Limit (dBm)	Result
802.11a	LCH	30~1000	834.13	-74.13	-54	Pass
		1000~26000	24975	-55.24	-47	Pass
	MCH	30~1000	898.15	-74.18	-54	Pass
		1000~26000	24975	-55.43	-47	Pass
	HCH	30~1000	875.84	-74.03	-54	Pass
		1000~26000	25725	-55.31	-47	Pass
802.11ac(VHT20)	LCH	30~1000	854.5	-74.25	-54	Pass
		1000~26000	24975	-55.1	-47	Pass
	MCH	30~1000	925.31	-73.96	-54	Pass
		1000~26000	25000	-55.26	-47	Pass
	HCH	30~1000	871.96	-74.33	-54	Pass
		1000~26000	25725	-55.24	-47	Pass
802.11ac(VHT40)	LCH	30~1000	850.62	-74.18	-54	Pass
		1000~26000	25000	-55.27	-47	Pass
	HCH	30~1000	909.79	-74.31	-54	Pass
		1000~26000	25725	-55.15	-47	Pass
802.11ac(VHT80)	MCH	30~1000	825.4	-74.28	-54	Pass
		1000~26000	24975	-55.51	-47	Pass
802.11n(HT20)	LCH	30~1000	736.16	-74.05	-54	Pass
		1000~26000	25000	-55.38	-47	Pass
	MCH	30~1000	848.68	-73.99	-54	Pass
		1000~26000	25700	-55.27	-47	Pass
	HCH	30~1000	725.49	-74.25	-54	Pass
		1000~26000	24975	-55.29	-47	Pass
802.11n(HT40)	LCH	30~1000	879.72	-74.09	-54	Pass
		1000~26000	25000	-55.55	-47	Pass
	HCH	30~1000	983.51	-73.91	-54	Pass
		1000~26000	25050	-55.15	-47	Pass

W52 ANT 2

Normal Voltage						
Mode	Channel (MHz)	Frequency(MHz)	Mkr(MHz)	Test result(dBm)	Limit (dBm)	Result
802.11a	LCH	30~1000	872.93	-74.14	-54	Pass
		1000~26000	25750	-55.48	-47	Pass
	MCH	30~1000	866.14	-74.3	-54	Pass
		1000~26000	25850	-55.39	-47	Pass
	HCH	30~1000	790.48	-74.47	-54	Pass
		1000~26000	25050	-55.14	-47	Pass
802.11ac(VHT20)	LCH	30~1000	875.84	-74.45	-54	Pass
		1000~26000	25025	-55.39	-47	Pass
	MCH	30~1000	847.71	-74.44	-54	Pass
		1000~26000	25000	-55.37	-47	Pass
	HCH	30~1000	880.69	-73.82	-54	Pass
		1000~26000	25000	-55.01	-47	Pass
802.11ac(VHT40)	LCH	30~1000	985.45	-74.03	-54	Pass
		1000~26000	24975	-55.33	-47	Pass
	HCH	30~1000	736.16	-74.04	-54	Pass
		1000~26000	25000	-55.44	-47	Pass
802.11ac(VHT80)	MCH	30~1000	845.77	-74.15	-54	Pass
		1000~26000	25675	-55.53	-47	Pass
802.11n(HT20)	LCH	30~1000	854.5	-74.06	-54	Pass
		1000~26000	25025	-55.33	-47	Pass
	MCH	30~1000	829.28	-74.31	-54	Pass
		1000~26000	25725	-55.1	-47	Pass
	HCH	30~1000	917.55	-73.85	-54	Pass
		1000~26000	25000	-55.19	-47	Pass
802.11n(HT40)	LCH	30~1000	897.18	-74.44	-54	Pass
		1000~26000	25000	-55.29	-47	Pass
	HCH	30~1000	846.74	-74.13	-54	Pass
		1000~26000	25725	-55.21	-47	Pass

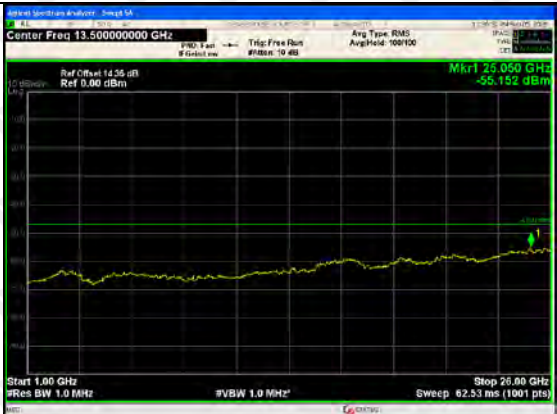
ANT 1

Channel (MHz)	W52:802.11a	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz

Channel (MHz)	W52:802.11ac(VHT20)	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz

Channel (MHz)	W52:802.11ac(VHT40)	
5190		
	30~1000MHz	1000~26000MHz
5230		
	30~1000MHz	1000~26000MHz
Channel (MHz)	W52:802.11ac(VHT80)	
5210		
	30~1000MHz	1000~26000MHz

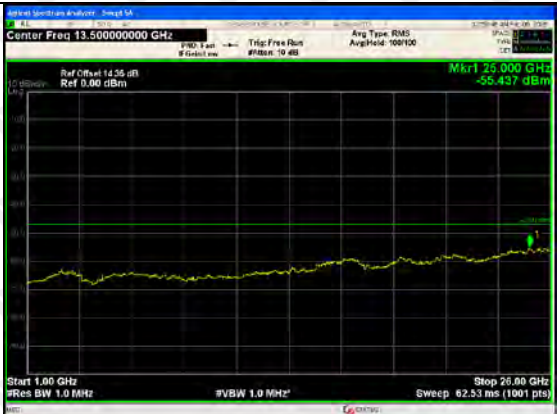
Channel (MHz)	W52:802.11 n(HT20)	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz

Channel (MHz)	W52:802.11n(HT40)	
5190	 30~1000MHz	 1000~26000MHz
5230	 30~1000MHz	 1000~26000MHz

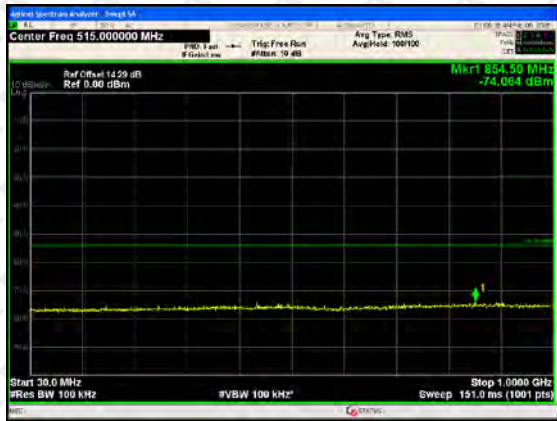
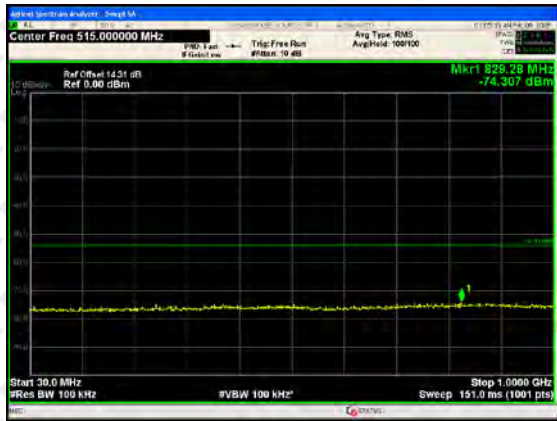
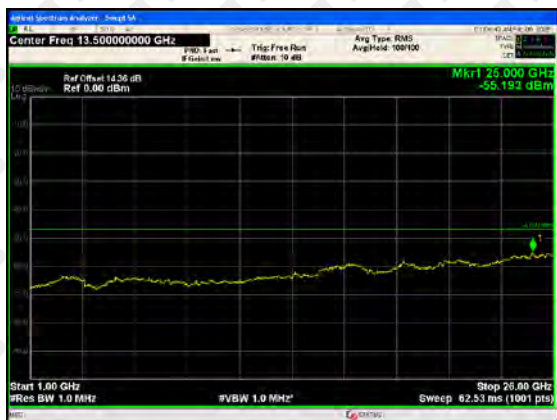
ANT 2

Channel (MHz)	W52:802.11a	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz

Channel (MHz)	W52:802.11ac(VHT20)	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz

Channel (MHz)	W52:802.11ac(VHT40)	
5190		
	30~1000MHz	1000~26000MHz
5230		
	30~1000MHz	1000~26000MHz

Channel (MHz)	W52:802.11ac(VHT80)	
5210		
	30~1000MHz	1000~26000MHz

Channel (MHz)	W52:802.11 n(HT20)	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz

Channel (MHz)	W52:802.11n(HT40)	
5190		
	30~1000MHz	1000~26000MHz
5230		
	30~1000MHz	1000~26000MHz

16.DYNAMIC FREQUENCY SELECTION (SLAVE)

16.1 Standard Applicable

Article 2 paragraph 1 item (19-3)

16.2 TEST PROCEDURE

Ordinance Regulating Radio Equipment No. 18, Article 49-20

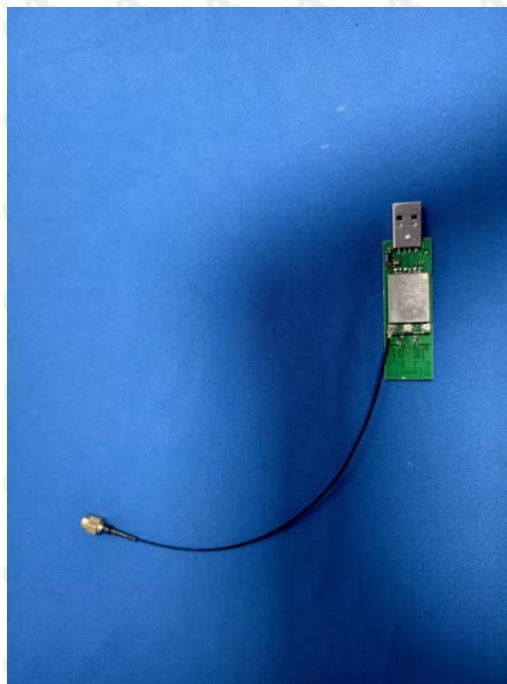
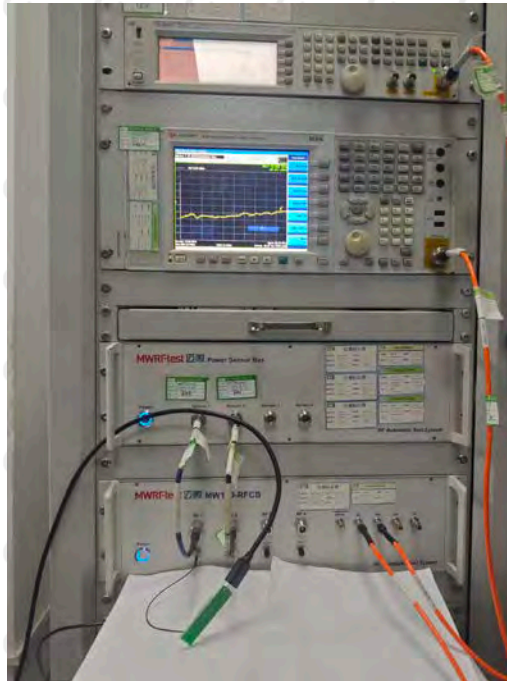
WAS/RLAN devices operating in slave mode (slave device) can be operated in a network controlled by aWAN/RLAN device operating in master mode (master device).

16.3 Summary of Test Results

Can be operated in a network controlled by a WAN/RLAN device operating in master mode.

Pass

17. EUT TEST PHOTO



***** END OF REPORT *****