



TEST REPORT

Product Name: Laser Obstacle Remover
Trademark: redcoast
Model Number: RFE-500B, RFE-1000B
Prepared For: SICHUAN RED COAST BASE INTELLIGENT TECHNOLOGY LTD
Room 909, 9/F, Unit 1, Building 9, No. 1700, North Section of Tianfu Avenue,
Address: Chengdu Hi-Tech Industrial Development Zone, China (Sichuan) Pilot Free Trade Zone
Manufacturer: SICHUAN RED COAST BASE INTELLIGENT TECHNOLOGY LTD
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Sample tested Date: Oct. 15, 2024 to Feb. 21, 2025
Issue Date: Feb. 21, 2025
Report No.: CTB24101506005RF02
Test Standards: MIC Notice No.88 Appendix No.45 Item 19-3
Test Results: PASS
Remark: This is 5G WIFI radio test report.

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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
CTB24101506005RF02	Feb. 21, 2025	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°C

4. GENERAL INFORMATION

4.1 GENERAL DESCRIPTION OF EUT

Model(s):	RFE-500B, RFE-1000B
Model Description:	All the model are the same circuit and RF module, only the name and appearance are different. Test sample model: RFE-500BDC
Wi-Fi Specification:	IEEE 802.11a/n/ac
Hardware Version:	V1.0
Software Version:	V5.2.1
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
Rate Output power:	802.11a: 8mW/MHz 802.11ac(VHT20): 5mW/MHz, 802.11n(HT20): 5mW/MHz, 802.11n(HT40): 2mW/MHz, 802.11ac(VHT40): 2mW/MHz 802.11ac80: 1mW/MHz
Type of Modulation:	OFDM
Antenna installation:	Internal antenna
Antenna Gain:	ANT1: 3.62dBi, ANT2: 3.62dBi
Ratings:	ADAPTER: Input: AC 180-250V form adapter Output: DC 54.6V --- 5A DC 48V by battery

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

4.3 Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Gain(dBi)	NOTE
1	N/A	5.2G antenna	Internal antenna	3.62dBi	N/A
2	N/A	5.2G antenna	Internal antenna	3.62dBi	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	48	3.3	3.3		
+10%	52.8	3.3	3.3		0
-10%	43.2	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	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Laser Obstacle Remover	redcoast	RFE-500B, RFE-1000B	EUT
E-2	Adapter	/	BF0930875001	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	2025/6/28
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2025/6/28
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2025/6/28
4	Communication test set	R&S	CMW500	108058	V3.5.80	2025/6/28
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/6/28
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2025/6/28
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2025/6/28
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2025/6/28
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2025/6/30
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2025/6/30
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2025/6/30
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	/	2025/6/28
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/6/28
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)	2025/6/28
18	Amplifier	HP	8447E	2945A02747	/	2025/6/28

19	Amplifier	Agilent	8449B	3008A01838	/	2025/6/28
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/28
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2025/6/28
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/28
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2025/6/28
26	Amplifier	AEROFLEX	Aeroflex	097	/	2025/6/28
27	Power Metter	KEYSIGHT	N1912AP	N/A	A.05.00	2025/6/28

Remark: Calibration institution "Guangzhou Lisai Measurement and Testing Co., LTD."

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: 3.62dBi, ANT2: 3.62dBi. Internal antenna
Result: An antenna connector is available; all relevant tests will be carried out conducted.

6. Frequency Error

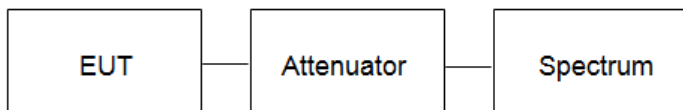
6.1 LIMIT

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

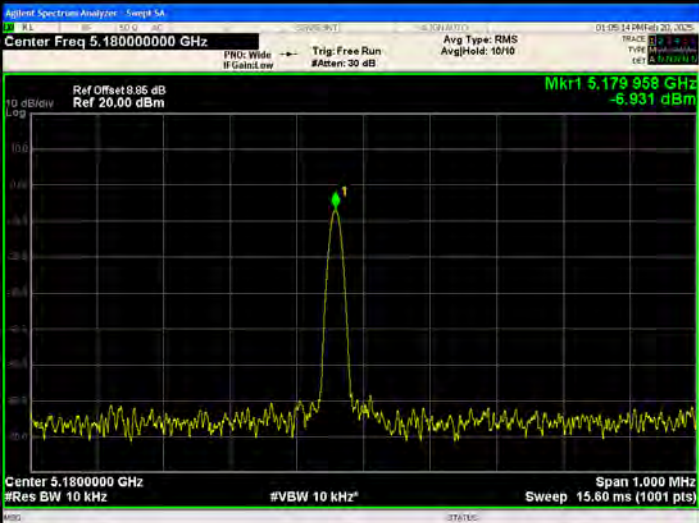
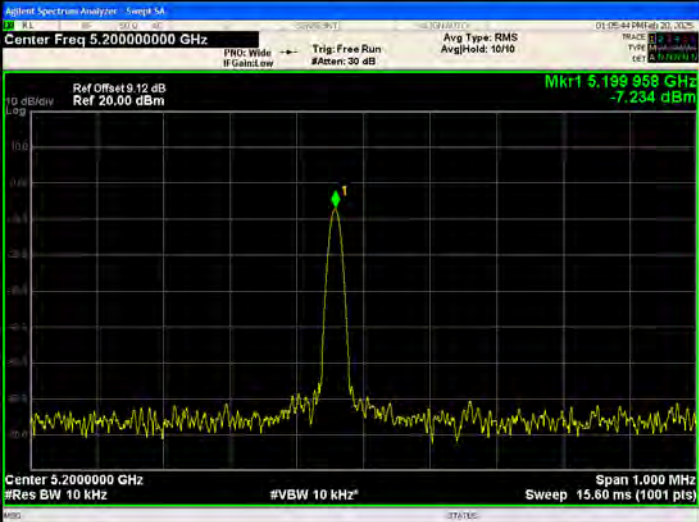
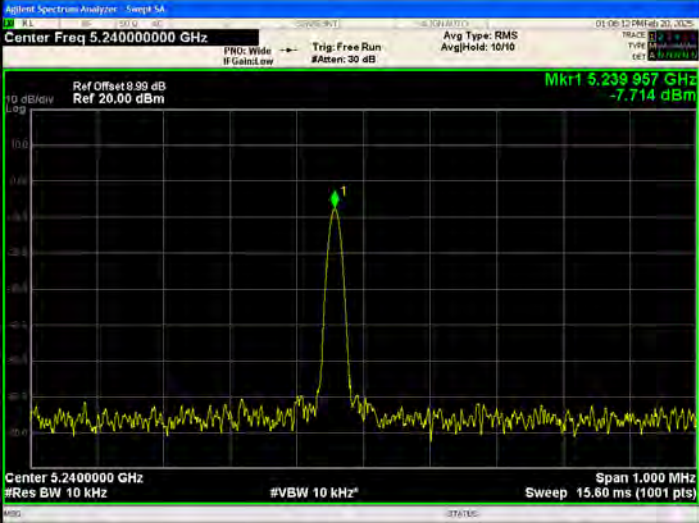
ANT 1

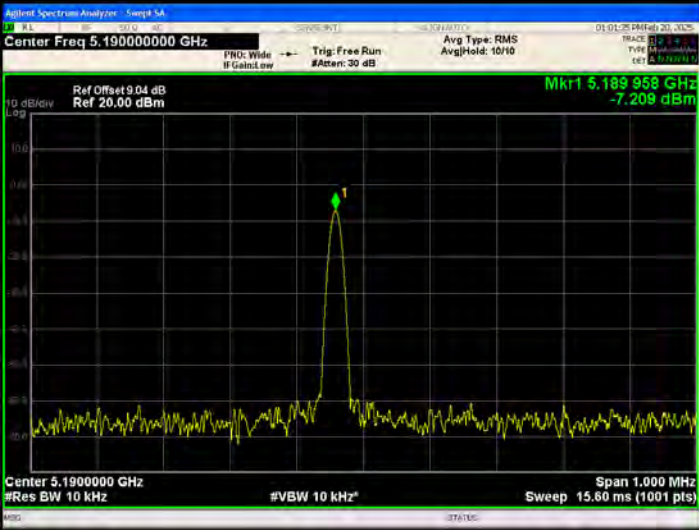
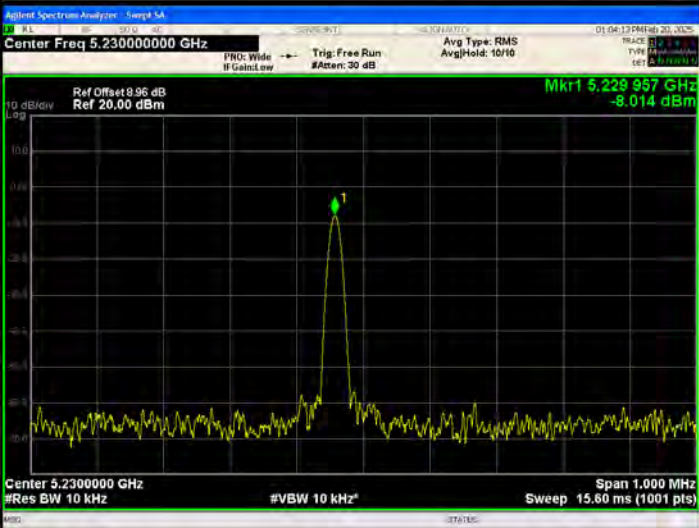
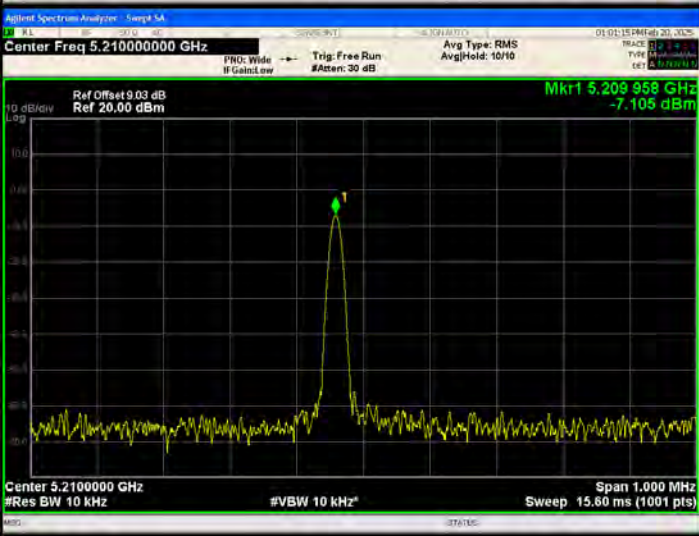
Test condition	Test Frequency	Measured	Tolerance	Test Result	Limit
	MHz	MHz	MHz	ppm	ppm
NVNT W52	5180	5179.958	-0.042	-8.108	+/-20
	5200	5199.958	-0.042	-8.077	+/-20
	5240	5239.957	-0.043	-8.206	+/-20
	5190	5189.958	-0.042	-8.092	+/-20
	5230	5229.957	-0.043	-8.222	+/-20
	5210	5209.958	-0.042	-8.061	+/-20

ANT 2

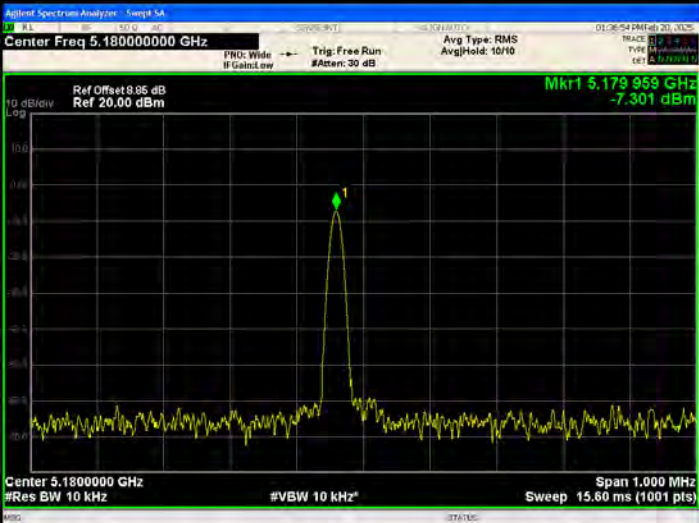
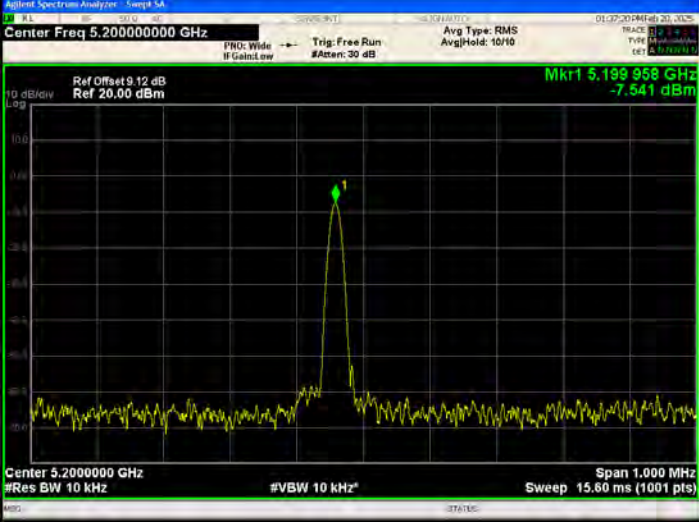
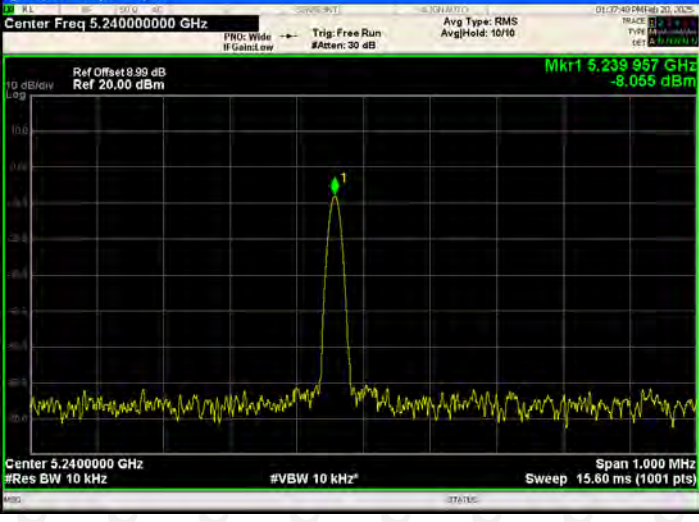
Test condition	Test Frequency	Measured	Tolerance	Test Result	Limit
	MHz	MHz	MHz	ppm	ppm
NVNT W52	5180	5179.959	-0.041	-7.915	+/-20
	5200	5199.958	-0.042	-8.077	+/-20
	5240	5239.957	-0.043	-8.206	+/-20
	5190	5189.957	-0.043	-8.285	+/-20
	5230	5229.957	-0.043	-8.222	+/-20
	5210	5209.957	-0.043	-8.253	+/-20

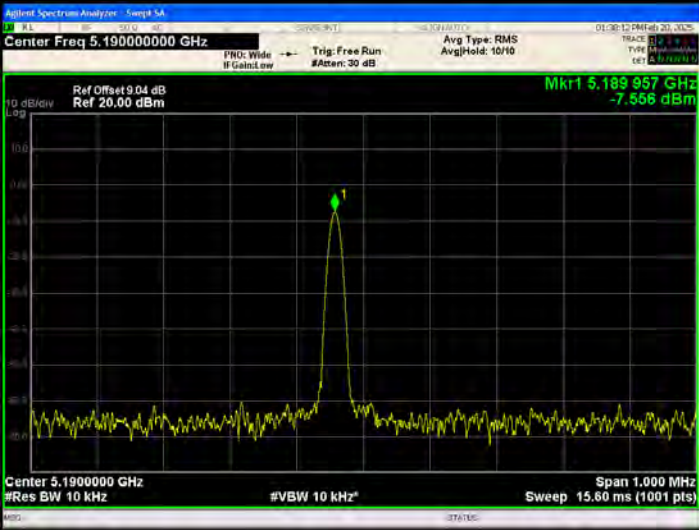
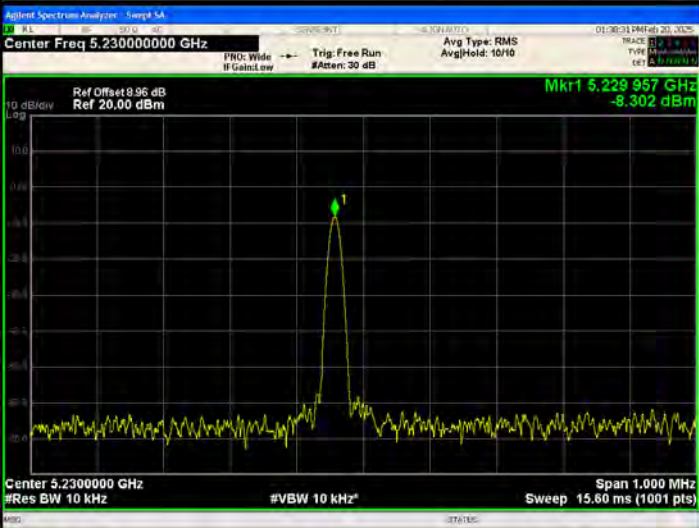
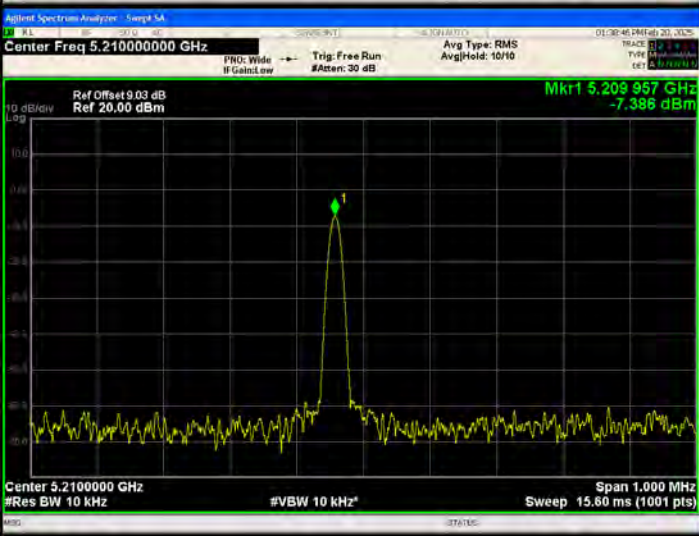
NVNT-ANT 1 W52

Channel(MHz)	Test graph
5180	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.18000000 GHz Ref Offset 8.95 dB Ref 20.00 dBm Mkr1 5.179 958 GHz -6.931 dBm Center 5.1800000 GHz #Res BW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)
5200	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.20000000 GHz Ref Offset 8.12 dB Ref 20.00 dBm Mkr1 5.199 958 GHz -7.234 dBm Center 5.2000000 GHz #Res BW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)
5240	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.24000000 GHz Ref Offset 8.99 dB Ref 20.00 dBm Mkr1 5.239 957 GHz -7.714 dBm Center 5.2400000 GHz #Res BW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)

Channel(MHz)	Test graph
5190	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.190000000 GHz Ref Offset 9.04 dB Ref 20.00 dBm Mkr1 5.189 958 GHz -7.209 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 5.230000000 GHz Ref Offset 9.96 dB Ref 20.00 dBm Mkr1 5.228 957 GHz -8.014 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 5.210000000 GHz Ref Offset 9.03 dB Ref 20.00 dBm Mkr1 5.208 958 GHz -7.105 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 5.18000000 GHz Ref Offset 8.95 dB Ref 20.00 dBm Mkr1 5.179 959 GHz -7.301 dBm Center 5.1800000 GHz #Res BW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)
5200	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.20000000 GHz Ref Offset 8.12 dB Ref 20.00 dBm Mkr1 5.199 958 GHz -7.541 dBm Center 5.2000000 GHz #Res BW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)
5240	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.24000000 GHz Ref Offset 8.99 dB Ref 20.00 dBm Mkr1 5.239 957 GHz -8.055 dBm Center 5.2400000 GHz #Res BW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)

Channel(MHz)	Test graph
5190	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.190000000 GHz Ref Offset 9.04 dB Ref 20.00 dBm Mkr1 5.189 957 GHz -7.556 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 5.230000000 GHz Ref Offset 9.96 dB Ref 20.00 dBm Mkr1 5.229 957 GHz -8.302 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 5.210000000 GHz Ref Offset 9.03 dB Ref 20.00 dBm Mkr1 5.209 957 GHz -7.386 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.

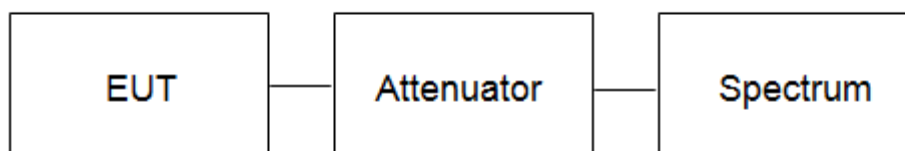
(4) Add up the electric power of all data and record it as "Sum total of electric power".

(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

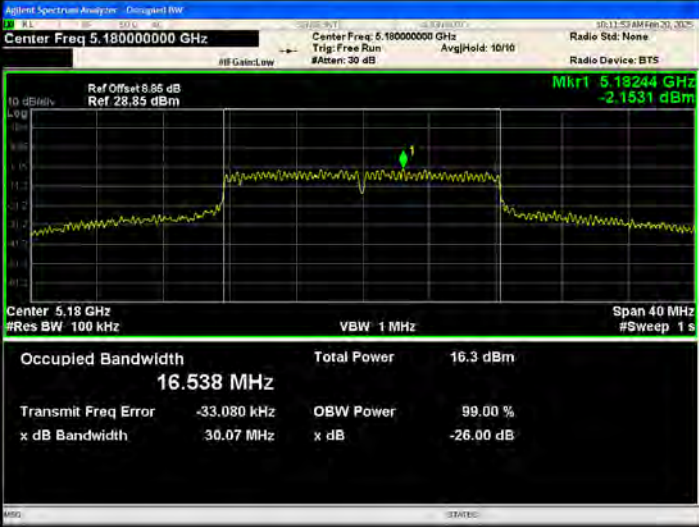
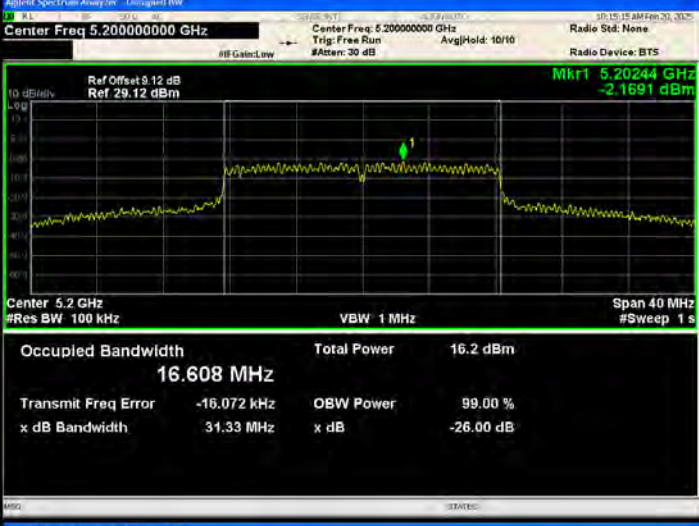
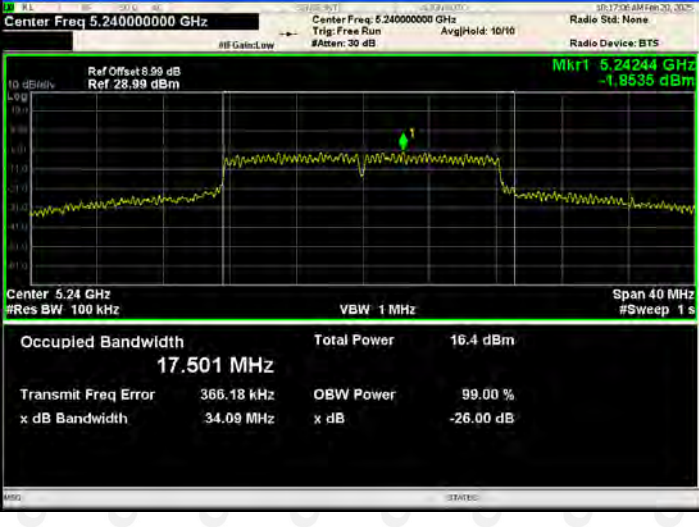
W52 ANT 1

Normal Voltage			
Mode	Channel (MHz)	Occupy Bandwidth (MHz)	Limit (MHz)
802.11a	LCH	16.5379	≤18
	MCH	16.6076	
	HCH	17.5010	
802.11ac(VHT20)	LCH	17.7317	≤20
	MCH	17.7308	
	HCH	18.0014	
802.11ac(VHT40)	LCH	38.7016	≤40
	MCH	/	
	HCH	36.3578	
802.11ac(VHT80)	LCH	/	≤80
	MCH	76.3263	
	HCH	/	
802.11n(HT20)	LCH	17.7076	≤20
	MCH	17.7260	
	HCH	18.2806	
802.11n(HT40)	LCH	39.0316	≤40
	MCH	/	
	HCH	36.3872	
Result	Pass		

W52 ANT 2

Normal Voltage			
Mode	Channel (MHz)	Occupy Bandwidth (MHz)	Limit (MHz)
802.11a	LCH	16.5124	≤18
	MCH	16.7336	
	HCH	17.0112	
802.11ac(VHT20)	LCH	17.7602	≤20
	MCH	18.0572	
	HCH	18.2221	
802.11ac(VHT40)	LCH	36.2263	≤40
	MCH	/	
	HCH	36.3213	
802.11ac(VHT80)	LCH	/	≤80
	MCH	76.3165	
	HCH	/	
802.11n(HT20)	LCH	17.7094	≤20
	MCH	17.8089	
	HCH	18.0466	
802.11n(HT40)	LCH	36.2298	≤40
	MCH	/	
	HCH	36.2667	
Result	Pass		

ANT 1

Channel(MHz)	W52:802.11a
5180	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Ref Offset 8.85 dB Ref 28.85 dBm Mkr1 5.18244 GHz -2.1531 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.538 MHz Total Power 16.3 dBm Transmit Freq Error -33.080 kHz OBW Power 99.00 % x dB Bandwidth 30.07 MHz x dB -26.00 dB
5200	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Ref Offset 8.12 dB Ref 29.12 dBm Mkr1 5.20244 GHz -2.1691 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.608 MHz Total Power 16.2 dBm Transmit Freq Error -16.072 kHz OBW Power 99.00 % x dB Bandwidth 31.33 MHz x dB -26.00 dB
5240	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Ref Offset 8.99 dB Ref 28.99 dBm Mkr1 5.24244 GHz -1.8535 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.501 MHz Total Power 16.4 dBm Transmit Freq Error 365.18 kHz OBW Power 99.00 % x dB Bandwidth 34.09 MHz x dB -26.00 dB

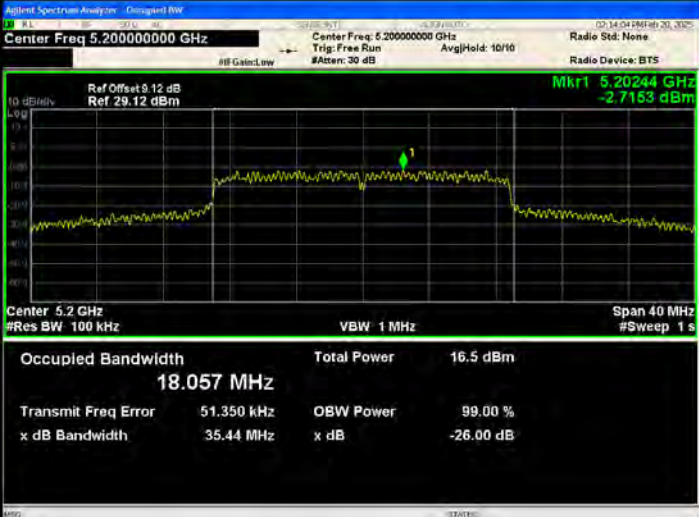
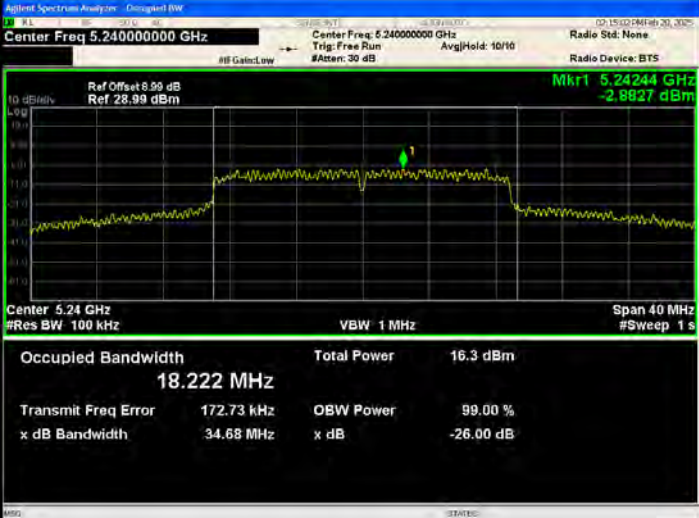
Channel(MHz)	W52:802.11ac(HT20)
5180	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 8.85 dB Ref: 28.85 dBm Mkr1 5.18244 GHz -3.1187 dBm Center 5.18 GHz Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.732 MHz Total Power 16.1 dBm Transmit Freq Error -50.444 kHz OBW Power 99.00 % x dB Bandwidth 34.45 MHz x dB -26.00 dB
5200	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 9.12 dB Ref: 29.12 dBm Mkr1 5.20244 GHz -3.1167 dBm Center 5.2 GHz Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.731 MHz Total Power 16.0 dBm Transmit Freq Error -47.259 kHz OBW Power 99.00 % x dB Bandwidth 31.99 MHz x dB -26.00 dB
5240	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 8.99 dB Ref: 28.99 dBm Mkr1 5.24244 GHz -2.9130 dBm Center 5.24 GHz Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 18.001 MHz Total Power 16.3 dBm Transmit Freq Error 66.203 kHz OBW Power 99.00 % x dB Bandwidth 34.54 MHz x dB -26.00 dB

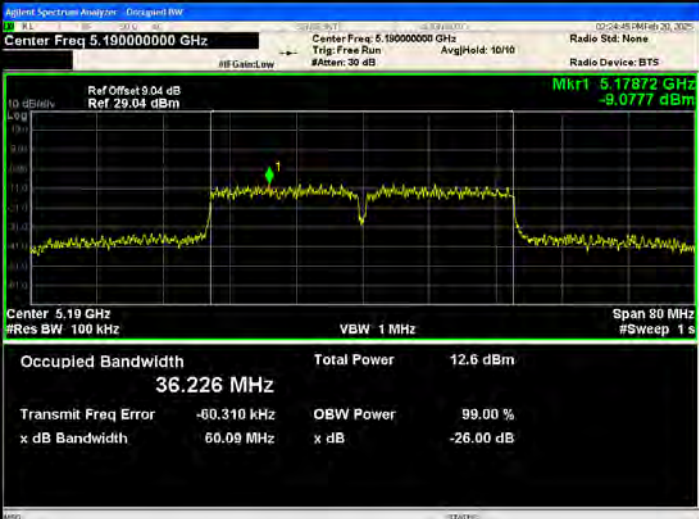
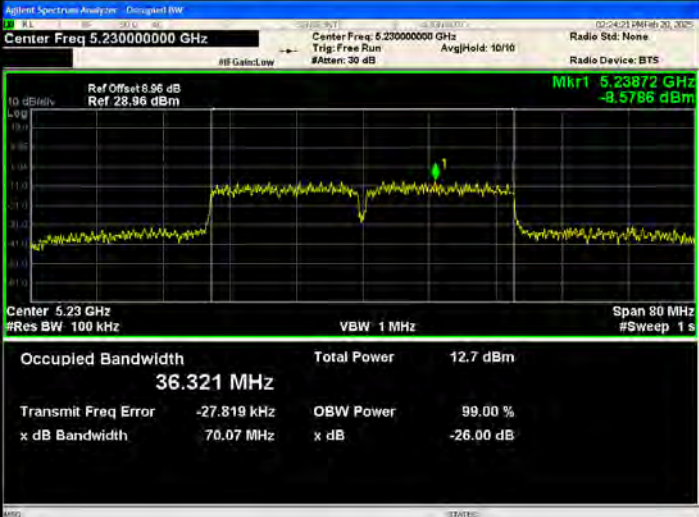
Channel(MHz)	W52:802.11ac(VHT40)												
5190	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.190000000 GHz Ref Offset 8.04 dB Ref 29.04 dBm Mkr1 5.18496 GHz -7.1705 dBm Center 5.19 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s <table><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>14.4 dBm</td></tr><tr><td>38.702 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>x dB</td><td>-26.00 dB</td></tr></table>	Occupied Bandwidth	Total Power	14.4 dBm	38.702 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-26.00 dB
Occupied Bandwidth	Total Power	14.4 dBm											
38.702 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-26.00 dB											
5230	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.230000000 GHz Ref Offset 8.96 dB Ref 28.96 dBm Mkr1 5.23872 GHz -9.2735 dBm Center 5.23 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s <table><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>13.1 dBm</td></tr><tr><td>36.358 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>x dB</td><td>-26.00 dB</td></tr></table>	Occupied Bandwidth	Total Power	13.1 dBm	36.358 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-26.00 dB
Occupied Bandwidth	Total Power	13.1 dBm											
36.358 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-26.00 dB											

5240	
Channel(MHz)	W52:802.11n(HT40)
5190	
5230	

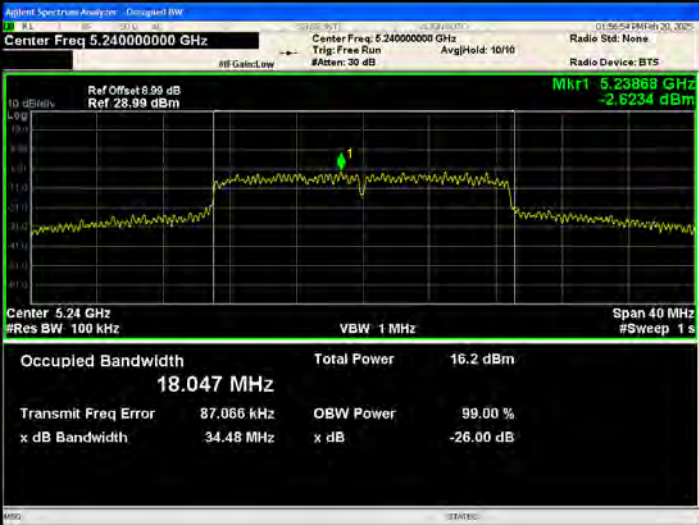
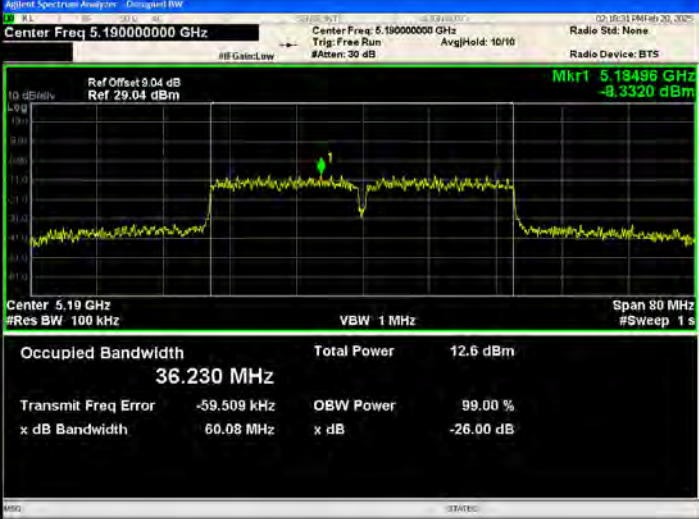
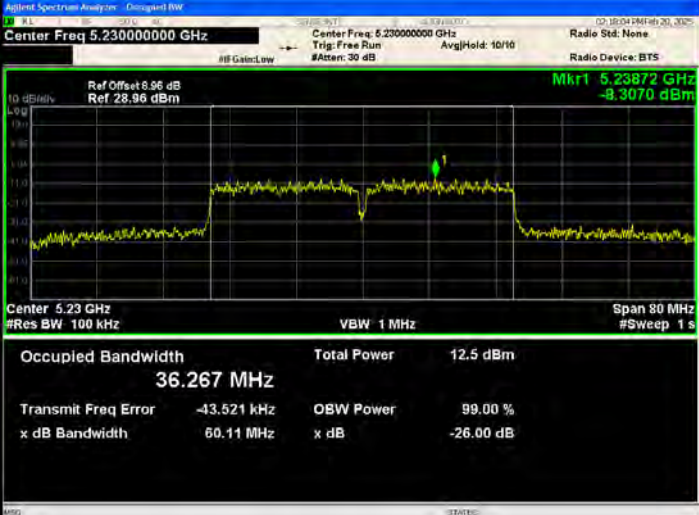
ANT 2

Channel(MHz)	W52:802.11a
5180	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 8.85 dB Ref: 28.85 dBm Mkr1 5.18244 GHz -2.2798 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.512 MHz Total Power 16.1 dBm Transmit Freq Error -38.290 kHz OBW Power 99.00 % x dB Bandwidth 29.78 MHz x dB -26.00 dB
5200	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 8.12 dB Ref: 29.12 dBm Mkr1 5.20244 GHz -1.8843 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.734 MHz Total Power 16.5 dBm Transmit Freq Error 33.116 kHz OBW Power 99.00 % x dB Bandwidth 31.93 MHz x dB -26.00 dB
5240	Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 8.99 dB Ref: 28.99 dBm Mkr1 5.24244 GHz -2.0129 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.011 MHz Total Power 16.3 dBm Transmit Freq Error 189.15 kHz OBW Power 99.00 % x dB Bandwidth 31.36 MHz x dB -26.00 dB

Channel(MHz)	W52:802.11ac(HT20)
5180	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 8.85 dB Ref: 28.85 dBm Mkr1 5.17492 GHz -3.0672 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.760 MHz Total Power 16.2 dBm Transmit Freq Error -50.106 kHz OBW Power 99.00 % x dB Bandwidth 34.49 MHz x dB -26.00 dB
5200	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 8.12 dB Ref: 29.12 dBm Mkr1 5.20244 GHz -2.7163 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 18.057 MHz Total Power 16.5 dBm Transmit Freq Error 51.350 kHz OBW Power 99.00 % x dB Bandwidth 35.44 MHz x dB -26.00 dB
5240	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 8.99 dB Ref: 28.99 dBm Mkr1 5.24244 GHz -2.8827 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 18.222 MHz Total Power 16.3 dBm Transmit Freq Error 172.73 kHz OBW Power 99.00 % x dB Bandwidth 34.68 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: 8.04 dB Ref: 29.04 dBm Mkr1: 5.17872 GHz -9.0777 dBm Center: 5.19 GHz #Res BW: 100 kHz VBW: 1 MHz Span: 80 MHz #Sweep: 1 s Occupied Bandwidth: 36.226 MHz Total Power: 12.6 dBm Transmit Freq Error: -60.310 kHz OBW Power: 99.00 % x dB Bandwidth: 60.09 MHz x dB: -26.00 dB
5230	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.230000000 GHz Ref Offset: 8.96 dB Ref: 28.96 dBm Mkr1: 5.23872 GHz -9.5786 dBm Center: 5.23 GHz #Res BW: 100 kHz VBW: 1 MHz Span: 80 MHz #Sweep: 1 s Occupied Bandwidth: 36.321 MHz Total Power: 12.7 dBm Transmit Freq Error: -27.819 kHz OBW Power: 99.00 % x dB Bandwidth: 70.07 MHz x dB: -26.00 dB

Channel(MHz)	W52:802.11ac (VHT80)
5210	Center Freq 5.210000000 GHz Ref Offset 8.03 dB Ref 29.03 dBm Mkr1 5.17496 GHz -10.814 dBm Center 5.21 GHz #Res BW 100 kHz VBW 1 MHz Span 160 MHz #Sweep 1 s Occupied Bandwidth 76.316 MHz Total Power 12.8 dBm Transmit Freq Error -50.094 kHz OBW Power 99.00 % x dB Bandwidth 155.9 MHz x dB -26.00 dB
Channel(MHz)	W52:802.11n(HT20)
5180	Center Freq 5.180000000 GHz Ref Offset 8.86 dB Ref 28.85 dBm Mkr1 5.17869 GHz -2.7354 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.709 MHz Total Power 16.1 dBm Transmit Freq Error -60.541 kHz OBW Power 99.00 % x dB Bandwidth 31.95 MHz x dB -26.00 dB
5200	Center Freq 5.200000000 GHz Ref Offset 8.12 dB Ref 29.12 dBm Mkr1 5.20496 GHz -2.4463 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.809 MHz Total Power 16.3 dBm Transmit Freq Error -34.328 kHz OBW Power 99.00 % x dB Bandwidth 33.53 MHz x dB -26.00 dB

5240	
Channel(MHz)	W52:802.11n(HT40)
5190	
5230	

8. Adjacent Channel Emitted Power

8.1 LIMIT

W52

For system OBW<20MHz

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

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

For system OBW≤20MHz

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

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

For system OBW≤40MHz

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

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

For system OBW≤80MHz

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

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

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

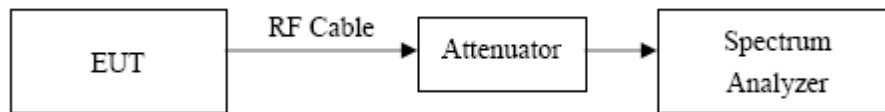
For system OBW≤160MHz

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	-30.85	-30.88	-30.79	-25dBc/20MHz
		Upper	-30.13	-29.69	-28.9	
	40MHz	Lower	-49.29	-49.17	-49.43	-40dBc/40MHz
		Upper	-46.58	-46.33	-43.48	
802.11ac(VHT20)	20MHz	Lower	-33.68	-32.95	-32.63	-25dBc/20MHz
		Upper	-33.87	-33.17	-31.8	
	40MHz	Lower	-50.09	-49.92	-50.06	-40dBc/40MHz
		Upper	-50.7	-50.01	-48.69	
802.11ac(VHT40)	40MHz	Lower	-31.72	/	-30.93	-25dBc/40MHz
		Upper	-30.75	/	-29.26	
	80MHz	Lower	-46.21	/	-46.92	-40dBc/80MHz
		Upper	-46	/	-44.92	
802.11ac(VHT80)	80MHz	Lower	/	-31.82	/	-25dBc/80MHz
		Upper	/	-30.4	/	
	160MHz	Lower	/	-40.54	/	-25dBc/80MHz
		Upper	/	-41.34	/	
802.11n(HT20)	20MHz	Lower	-35.19	-34.82	-36.7	-25dBc/20MHz
		Upper	-35.37	-35.27	-35.04	
	40MHz	Lower	-50.39	-50.32	-50.56	-40dBc/40MHz
		Upper	-50.93	-50.36	-49.01	
802.11n(HT40)	40MHz	Lower	-32.26	/	-32.78	-25dBc/40MHz
		Upper	-32.39	/	-31.59	
	80MHz	Lower	-46.73	/	-46.72	-40dBc/80MHz
		Upper	-46.8	/	-45.64	
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	-33.4	-33.02	-32.88	-25dBc/20MHz
		Upper	-32.81	-32.33	-30.88	
	40MHz	Lower	-49.57	-49.43	-50.35	-40dBc/40MHz
		Upper	-48	-47.62	-44.21	
802.11ac(VHT20)	20MHz	Lower	-33.39	-32.06	-32.57	-25dBc/20MHz
		Upper	-33.59	-32.3	-30.91	
	40MHz	Lower	-50.07	-49.86	-49.62	-40dBc/40MHz
		Upper	-50.56	-49.86	-47.77	
802.11ac(VHT40)	40MHz	Lower	-38.31	/	-37.42	-25dBc/40MHz
		Upper	-38.3	/	-36.11	
	80MHz	Lower	-45.84	/	-45.9	-40dBc/80MHz
		Upper	-45.9	/	-46.04	
802.11ac(VHT80)	80MHz	Lower	/	-34.73	/	-25dBc/80MHz
		Upper	/	-34.54	/	
	160MHz	Lower	/	-41.71	/	-25dBc/80MHz
		Upper	/	-41.48	/	
802.11n(HT20)	20MHz	Lower	-33.99	-33.89	-42.48	-25dBc/20MHz
		Upper	-34.33	-33.8	-41.58	
	40MHz	Lower	-50.15	-49.87	-48.42	-40dBc/40MHz
		Upper	-50.58	-49.9	-48.31	
802.11n(HT40)	40MHz	Lower	-41.26	/	-39.17	-25dBc/40MHz
		Upper	-41.34	/	-38.28	
	80MHz	Lower	-45.96	/	-45.99	-40dBc/80MHz
		Upper	-46.02	/	-46.19	
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	-27.23	-27.36	-26.96	-25dBc/20MHz
		Upper	-25.32	-25.16	-25.48	
	40MHz	Lower	-45.04	-45.88	-47.46	-40dBc/40MHz
		Upper	-43.6	-43.97	-45.68	
802.11ac(VHT40)	40MHz	Lower	-30.61	/	-30.14	-25dBc/40MHz
		Upper	-25.21	/	-25.67	
	80MHz	Lower	-44.38	/	-45.34	-40dBc/80MHz
		Upper	-42.66	/	-43.96	
802.11ac(VHT80)	80MHz	Lower	/	-36.18	/	-25dBc/80MHz
		Upper	/	-26.88	/	
	160MHz	Lower	/	-43.49	/	-25dBc/80MHz
		Upper	/	-42.3	/	
802.11n(HT20)	20MHz	Lower	-28.12	-28.85	-27.45	-25dBc/20MHz
		Upper	-25.46	-25.82	-25.17	
	40MHz	Lower	-45.45	-46.3	-47.3	-40dBc/40MHz
		Upper	-43.64	-44.64	-45.52	
802.11n(HT40)	40MHz	Lower	-31.6	/	-30.49	-25dBc/40MHz
		Upper	-25.72	/	-25.85	
	80MHz	Lower	-45.59	/	-46.42	-40dBc/80MHz
		Upper	-43.8	/	-44.98	
Result	Pass					

ANT1:

Channel(MHz)	W52:802.11a																																																																																					
5180	Agilent Spectrum Analyzer - ACP Center Freq: 5.180000000 GHz Ref Offset: 8.85 dB Ref 28.85 dBm Center Freq: 5.180000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 23.523 dBm/ 20.00 MHz <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 23.523 dBm / 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-30.85</td><td>-7.323</td><td>-30.13</td><td>-46.69</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-49.29</td><td>-25.17</td><td>-46.58</td><td>-23.66</td><td>OFF</td></tr></tbody></table> <tr><td>5200</td><td> Agilent Spectrum Analyzer - ACP Center Freq: 5.200000000 GHz Ref Offset: 9.12 dB Ref 29.12 dBm Center Freq: 5.200000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Center 5.2 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 23.754 dBm/ 20.00 MHz <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 23.754 dBm / 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-30.88</td><td>-7.134</td><td>-29.69</td><td>-5.034</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-49.17</td><td>-25.41</td><td>-46.33</td><td>-22.57</td><td>OFF</td></tr></tbody></table> <tr><td>5240</td><td> Agilent Spectrum Analyzer - ACP Center Freq: 5.240000000 GHz Ref Offset: 8.99 dB Ref 28.99 dBm Center Freq: 5.240000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Center 5.24 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 23.442 dBm/ 20.00 MHz <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 23.442 dBm / 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-30.79</td><td>-7.348</td><td>-28.90</td><td>-5.456</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-49.43</td><td>-25.99</td><td>-43.48</td><td>-20.04</td><td>OFF</td></tr></tbody></table> </td></tr></td></tr>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	Lower	Upper	Filter	1 23.523 dBm / 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-30.85	-7.323	-30.13	-46.69	OFF			40.00 MHz	20.00 MHz	-49.29	-25.17	-46.58	-23.66	OFF	5200	Agilent Spectrum Analyzer - 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5180	Agilent Spectrum Analyzer - ALP Center Freq 5.180000000 GHz Ref Offset 8.85 dB Ref 28.85 dBm Center 5.18 GHz #Res BW 300 kHz Total Carrier Power 22.262 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 22.262 dBm/20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-33.88</td><td>-11.41</td><td>-33.87</td><td>-11.61</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-50.09</td><td>-27.83</td><td>-50.70</td><td>-28.44</td><td>OFF</td></tr></tbody></table> Center Freq 5.180000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS 10.26.20 AM 4m 20.362 10.26.20 AM 4m 20.362	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1 22.262 dBm/20.00 MHz	OFF	20.00 MHz	20.00 MHz	-33.88	-11.41	-33.87	-11.61	OFF			40.00 MHz	20.00 MHz	-50.09	-27.83	-50.70	-28.44	OFF
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5230	Agilent Spectrum Analyzer - ALP 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 8.96 dB Ref 28.96 dBm 10 dB/div Log 0 dB 10 dB 20 dB 30 dB 40 dB 50 dB 60 dB -46.9 dBc -30.9 dBc -21.9 dBm -29.3 dBc -44.0 dBc Center 5.23 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 21.909 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>-21.909 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>-30.93</td><td>-9.020</td><td>-29.26</td><td>-7.347</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-46.92</td><td>-25.01</td><td>-44.92</td><td>-23.01</td><td>OFF</td></tr></tbody></table> <tr><td>Channel(MHz)</td><td>W52:802.11ac(VHT80)</td></tr> <tr><td>5210</td><td> Agilent Spectrum Analyzer - ALP 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 9.03 dB Ref 29.03 dBm 10 dB/div Log 0 dB 10 dB 20 dB 30 dB 40 dB 50 dB 60 dB -40.5 dBc -31.8 dBc -21.5 dBm -30.4 dBc -41.3 dBc Center 5.21 GHz #Res BW 300 kHz #VBW 300 kHz Span 400 MHz Sweep 20 ms Total Carrier Power 21.495 dBm/80.00 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>-21.495 dBm / 80.00 MHz</td><td>OFF</td><td>80.00 MHz</td><td>-31.82</td><td>-10.33</td><td>-30.40</td><td>-8.905</td><td>OFF</td></tr><tr><td></td><td></td><td>160.0 MHz</td><td>80.00 MHz</td><td>-40.54</td><td>-19.05</td><td>-41.34</td><td>-18.64</td><td>OFF</td></tr></tbody></table> </td></tr>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1	-21.909 dBm / 40.00 MHz	OFF	40.00 MHz	-30.93	-9.020	-29.26	-7.347	OFF			80.00 MHz	40.00 MHz	-46.92	-25.01	-44.92	-23.01	OFF	Channel(MHz)	W52:802.11ac(VHT80)	5210	Agilent Spectrum Analyzer - ALP 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 9.03 dB Ref 29.03 dBm 10 dB/div Log 0 dB 10 dB 20 dB 30 dB 40 dB 50 dB 60 dB -40.5 dBc -31.8 dBc -21.5 dBm -30.4 dBc -41.3 dBc Center 5.21 GHz #Res BW 300 kHz #VBW 300 kHz Span 400 MHz Sweep 20 ms Total Carrier Power 21.495 dBm/80.00 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>-21.495 dBm / 80.00 MHz</td><td>OFF</td><td>80.00 MHz</td><td>-31.82</td><td>-10.33</td><td>-30.40</td><td>-8.905</td><td>OFF</td></tr><tr><td></td><td></td><td>160.0 MHz</td><td>80.00 MHz</td><td>-40.54</td><td>-19.05</td><td>-41.34</td><td>-18.64</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1	-21.495 dBm / 80.00 MHz	OFF	80.00 MHz	-31.82	-10.33	-30.40	-8.905	OFF			160.0 MHz	80.00 MHz	-40.54	-19.05	-41.34	-18.64	OFF																													
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Channel(MHz)	W52:802.11n(HT40)
5190	Agilent Spectrum Analyzer - ALP Center Freq 5.190000000 GHz Ref Offset 8.04 dB Ref 29.04 dBm Center Freq: 5.190000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS 10 dB/div Log dBm dBc dBm

ANT2:

Channel(MHz)	W52:802.11a																					
5180	Agilent Spectrum Analyzer - ALP 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 8.85 dB Ref 28.85 dBm 22.3 dBm -49.5 dBc -33.4 dBc -32.3 dBc -48.0 dBc Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 22.359 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 dBr</th><th>Upper dBr</th><th>Filter</th></tr></thead><tbody><tr><td>1 22.359 dBm / 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-33.40</td><td>-11.14</td><td>-32.61</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-49.57</td><td>-27.31</td><td>-48.00</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower dBr	Upper dBr	Filter	1 22.359 dBm / 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-33.40	-11.14	-32.61			40.00 MHz	20.00 MHz	-49.57	-27.31	-48.00
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5200	Agilent Spectrum Analyzer - ALP 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 8.12 dB Ref 29.12 dBm 22.4 dBm -49.4 dBc -33.0 dBc -32.3 dBc -47.0 dBc Center 5.2 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 22.382 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 dBr</th><th>Upper dBr</th><th>Filter</th></tr></thead><tbody><tr><td>1 22.382 dBm / 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-33.02</td><td>-10.64</td><td>-32.33</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-49.43</td><td>-27.05</td><td>-47.62</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower dBr	Upper dBr	Filter	1 22.382 dBm / 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-33.02	-10.64	-32.33			40.00 MHz	20.00 MHz	-49.43	-27.05	-47.62
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5240	Agilent Spectrum Analyzer - ALP 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 8.99 dB Ref 28.99 dBm 22.6 dBm -50.3 dBc -32.9 dBc -30.9 dBc -44.2 dBc Center 5.24 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 22.628 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 dBr</th><th>Upper dBr</th><th>Filter</th></tr></thead><tbody><tr><td>1 22.628 dBm / 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-33.86</td><td>-10.25</td><td>-30.88</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-50.35</td><td>-27.72</td><td>-44.21</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower dBr	Upper dBr	Filter	1 22.628 dBm / 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-33.86	-10.25	-30.88			40.00 MHz	20.00 MHz	-50.35	-27.72	-44.21
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Channel(MHz)	W52:802.11ac(VHT20)
5180	Agilent Spectrum Analyzer - ALP Center Freq: 5.180000000 GHz Ref Offset: 8.85 dB Ref: 28.85 dBm Center Freq: 5.180000000 GHz Trig: Free Run atten: 30 dB Radio Std: None Radio Device: BTS 10 dB/div LOG dBm 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500 1510 1520 1530 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1790 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13160 13170 13180 13190 13200 13210 13220 13230 13240 13250 13260 13270

Channel(MHz)	W52:802.11ac(VHT40)
5190	Agilent Spectrum Analyzer - ALP Center Freq 5.190000000 GHz Center Freq: 5.190000000 GHz Trig: Free Run #Att: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 8.04 dB Ref 29.04 dBm 10 dB/div Log 0 dB 20 dB 40 dB 60 dB 80 dB 100 dB 120 dB 140 dB 160 dB 180 dB 200 dB 220 dB 240 dB 260 dB 280 dB 300 dB 320 dB 340 dB 360 dB 380 dB 400 dB 420 dB 440 dB 460 dB 480 dB 500 dB 520 dB 540 dB 560 dB 580 dB 600 dB 620 dB 640 dB 660 dB 680 dB 700 dB 720 dB 740 dB 760 dB 780 dB 800 dB 820 dB 840 dB 860 dB 880 dB 900 dB 920 dB 940 dB 960 dB 980 dB 1000 dB 1020 dB 1040 dB 1060 dB 1080 dB 1100 dB 1120 dB 1140 dB 1160 dB 1180 dB 1200 dB 1220 dB 1240 dB 1260 dB 1280 dB 1300 dB 1320 dB 1340 dB 1360 dB 1380 dB 1400 dB 1420 dB 1440 dB 1460 dB 1480 dB 1500 dB 1520 dB 1540 dB 1560 dB 1580 dB 1600 dB 1620 dB 1640 dB 1660 dB 1680 dB 1700 dB 1720 dB 1740 dB 1760 dB 1780 dB 1800 dB 1820 dB 1840 dB 1860 dB 1880 dB 1900 dB 1920 dB 1940 dB 1960 dB 1980 dB 2000 dB 2020 dB 2040 dB 2060 dB 2080 dB 2100 dB 2120 dB 2140 dB 2160 dB 2180 dB 2200 dB 2220 dB 2240 dB 2260 dB 2280 dB 2300 dB 2320 dB 2340 dB 2360 dB 2380 dB 2400 dB 2420 dB 2440 dB 2460 dB 2480 dB 2500 dB 2520 dB 2540 dB 2560 dB 2580 dB 2600 dB 2620 dB 2640 dB 2660 dB 2680 dB 2700 dB 2720 dB 2740 dB 2760 dB 2780 dB 2800 dB 2820 dB 2840 dB 2860 dB 2880 dB 2900 dB 2920 dB 2940 dB 2960 dB 2980 dB 3000 dB 3020 dB 3040 dB 3060 dB 3080 dB 3100 dB 3120 dB 3140 dB 3160 dB 3180 dB 3200 dB 3220 dB 3240 dB 3260 dB 3280 dB 3300 dB 3320 dB 3340 dB 3360 dB 3380 dB 3400 dB 3420 dB 3440 dB 3460 dB 3480 dB 3500 dB 3520 dB 3540 dB 3560 dB 3580 dB 3600 dB 3620 dB 3640 dB 3660 dB 3680 dB 3700 dB 3720 dB 3740 dB 3760 dB 3780 dB 3800 dB 3820 dB 3840 dB 3860 dB 3880 dB 3900 dB 3920 dB 3940 dB 3960 dB 3980 dB 4000 dB 4020 dB 4040 dB 4060 dB 4080 dB 4100 dB 4120 dB 4140 dB 4160 dB 4180 dB 4200 dB 4220 dB 4240 dB 4260 dB 4280 dB 4300 dB 4320 dB 4340 dB 4360 dB 4380 dB 4400 dB 4420 dB 4440 dB 4460 dB 4480 dB 4500 dB 4520 dB 4540 dB 4560 dB 4580 dB 4600 dB 4620 dB 4640 dB 4660 dB 4680 dB 4700 dB 4720 dB 4740 dB 4760 dB 4780 dB 4800 dB 4820 dB 4840 dB 4860 dB 4880 dB 4900 dB 4920 dB 4940 dB 4960 dB 4980 dB 5000 dB 5020 dB 5040 dB 5060 dB 5080 dB 5100 dB 5120 dB 5140 dB 5160 dB 5180 dB 5200 dB 5220 dB 5240 dB 5260 dB 5280 dB 5300 dB 5320 dB 5340 dB 5360 dB 5380 dB 5400 dB 5420 dB 5440 dB 5460 dB 5480 dB 5500 dB 5520 dB 5540 dB 5560 dB 5580 dB 5600 dB 5620 dB 5640 dB 5660 dB 5680 dB 5700 dB 5720 dB 5740 dB 5760 dB 5780 dB 5800 dB 5820 dB 5840 dB 5860 dB 5880 dB 5900 dB 5920 dB 5940 dB 5960 dB 5980 dB 6000 dB 6020 dB 6040 dB 6060 dB 6080 dB 6100 dB 6120 dB 6140 dB 6160 dB 6180 dB 6200 dB 6220 dB 6240 dB 6260 dB 6280 dB 6300 dB 6320 dB 6340 dB 6360 dB 6380 dB 6400 dB 6420 dB 6440 dB 6460 dB 6480 dB 6500 dB 6520 dB 6540 dB 6560 dB 6580 dB 6600 dB 6620 dB 6640 dB 6660 dB 6680 dB 6700 dB 6720 dB 6740 dB 6760 dB 6780 dB 6800 dB 6820 dB 6840 dB 6860 dB 6880 dB 6900 dB 6920 dB 6940 dB 6960 dB 6980 dB 7000 dB 7020 dB 7040 dB 7060 dB 7080 dB 7100 dB 7120 dB 7140 dB 7160 dB 7180 dB 7200 dB 7220 dB 7240 dB 7260 dB 7280 dB 7300 dB 7320 dB 7340 dB 7360 dB 7380 dB 7400 dB 7420 dB 7440 dB 7460 dB 7480 dB 7500 dB 7520 dB 7540 dB 7560 dB 7580 dB 7600 dB 7620 dB 7640 dB 7660 dB 7680 dB 7700 dB 7720 dB 7740 dB 7760 dB 7780 dB 7800 dB 7820 dB 7840 dB 7860 dB 7880 dB 7900 dB 7920 dB 7940 dB 7960 dB 7980 dB 8000 dB 8020 dB 8040 dB 8060 dB 8080 dB 8100 dB 8120 dB 8140 dB 8160 dB 8180 dB 8200 dB 8220 dB 8240 dB 8260 dB 8280 dB 8300 dB 8320 dB 8340 dB 8360 dB 8380 dB 8400 dB 8420 dB 8440 dB 8460 dB 8480 dB 8500 dB 8520 dB 8540 dB 8560 dB 8580 dB 8600 dB 8620 dB 8640 dB 8660 dB 8680 dB 8700 dB 8720 dB 8740 dB 8760 dB 8780 dB 8800 dB 8820 dB 8840 dB 8860 dB 8880 dB 8900 dB 8920 dB 8940 dB 8960 dB 8980 dB 9000 dB 9020 dB 9040 dB 9060 dB 9080 dB 9100 dB 9120 dB 9140 dB 9160 dB 9180 dB 9200 dB 9220 dB 9240 dB 9260 dB 9280 dB 9300 dB 9320 dB 9340 dB 9360 dB 9380 dB 9400 dB 9420 dB 9440 dB 9460 dB 9480 dB 9500 dB 9520 dB 9540 dB 9560 dB 9580 dB 9600 dB 9620 dB 9640 dB 9660 dB 9680 dB 9700 dB 9720 dB 9740 dB 9760 dB 9780 dB 9800 dB 9820 dB 9840 dB 9860 dB 9880 dB 9900 dB 9920 dB 9940 dB 9960 dB 9980 dB 10000 dB 10020 dB 10040 dB 10060 dB 10080 dB 10100 dB 10120 dB 10140 dB 10160 dB 10180 dB 10200 dB 10220 dB 10240 dB 10260 dB 10280 dB 10300 dB 10320 dB 10340 dB 10360 dB 10380 dB 10400 dB 10420 dB 10440 dB 10460 dB 10480 dB 10500 dB 10520 dB 10540 dB 10560 dB 10580 dB 10600 dB 10620 dB 10640 dB 10660 dB 10680 dB 10700 dB 10720 dB 10740 dB 10760 dB 10780 dB 10800 dB 10820 dB 10840 dB 10860 dB 10880 dB 10900 dB 10920 dB 10940 dB 10960 dB 10980 dB 11000 dB 11020 dB 11040 dB 11060 dB 11080 dB 11100 dB 11120 dB 11140 dB 11160 dB 11180 dB 11200 dB 11220 dB 11240 dB 11260 dB 11280 dB 11300 dB 11320 dB 11340 dB 11360 dB 11380 dB 11400 dB 11420 dB 11440 dB 11460 dB 11480 dB 11500 dB 11520 dB 11540 dB 11560 dB 11580 dB 11600 dB 11620 dB 11640 dB 11660 dB 11680 dB 11700 dB 11720 dB 11740 dB 11760 dB 11780 dB 11800 dB 11820 dB 11840 dB 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14080 dB 14100 dB 14120 dB 14140 dB 14160 dB 14180 dB 14200 dB 14220 dB 14240 dB 14260 dB 14280 dB 14300 dB 14320 dB 14340 dB 14360 dB 14380 dB 14400 dB 14420 dB 14440 dB 14460 dB 14480 dB 14500 dB 14520 dB 14540 dB 14560 dB 14580 dB 14600 dB 14620 dB 14640 dB 14660 dB 14680 dB 14700 dB 14720 dB 14740 dB 14760 dB 14780 dB 14800 dB 14820 dB 14840 dB 14860 dB 14880 dB 14900 dB 14920 dB 14940 dB 14960 dB 14980 dB 15000 dB 15020 dB 15040 dB 15060 dB 15080 dB 15100 dB 15120 dB 15140 dB 15160 dB 15180 dB 15200 dB 15220 dB 15240 dB 15260 dB 15280 dB 15300 dB 15320 dB 15340 dB 15360 dB 15380 dB 15400 dB 15420 dB 15440 dB 15460 dB 15480 dB 15500 dB 15520 dB 15540 dB 15560 dB 15580 dB 15600 dB 15620 dB 15640 dB 15660 dB 15680 dB 15700 dB 15720 dB 15740 dB 15760 dB 15780 dB 15800 dB 15820 dB 15840 dB 15860 dB 15880 dB 15900 dB 15920 dB 15940 dB 15960 dB 15980 dB 16000 dB 16020 dB 16040 dB 16060 dB 16080 dB 16100 dB 16120 dB 16140 dB 16160 dB 16180 dB 16200 dB 16220 dB 16240 dB 16260 dB 16280 dB 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22960 dB 22980 dB 23000 dB 23020 dB 23040 dB 23060 dB 23080 dB 23100 dB 23120 dB 23140 dB 23160 dB

Channel(MHz)	W52:802.11n(HT20)
5180	Agilent Spectrum Analyzer - ALP 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 8.85 dB Ref 28.85 dBm 10 dBm 9.85 8.85 7.85 6.85 5.85 4.85 3.85 2.85 1.85 0.85 -0.15 -1.15 -2.15 -3.15 -4.15 -5.15 -6.15 -7.15 -8.15 -9.15 -10.15 -11.15 -12.15 -13.15 -14.15 -15.15 -16.15 -17.15 -18.15 -19.15 -20.15 -21.15 -22.15 -23.15 -24.15 -25.15 -26.15 -27.15 -28.15 -29.15 -30.15 -31.15 -32.15 -33.15 -34.15 -35.15 -36.15 -37.15 -38.15 -39.15 -40.15 -41.15 -42.15 -43.15 -44.15 -45.15 -46.15 -47.15 -48.15 -49.15 -50.15 -51.15 -52.15 -53.15 -54.15 -55.15 -56.15 -57.15 -58.15 -59.15 -60.15 -61.15 -62.15 -63.15 -64.15 -65.15 -66.15 -67.15 -68.15 -69.15 -70.15 -71.15 -72.15 -73.15 -74.15 -75.15 -76.15 -77.15 -78.15 -79.15 -80.15 -81.15 -82.15 -83.15 -84.15 -85.15 -86.15 -87.15 -88.15 -89.15 -90.15 -91.15 -92.15 -93.15 -94.15 -95.15 -96.15 -97.15 -98.15 -99.15 -100.15 -101.15 -102.15 -103.15 -104.15 -105.15 -106.15 -107.15 -108.15 -109.15 -110.15 -111.15 -112.15 -113.15 -114.15 -115.15 -116.15 -117.15 -118.15 -119.15 -120.15 -121.15 -122.15 -123.15 -124.15 -125.15 -126.15 -127.15 -128.15 -129.15 -130.15 -131.15 -132.15 -133.15 -134.15 -135.15 -136.15 -137.15 -138.15 -139.15 -140.15 -141.15 -142.15 -143.15 -144.15 -145.15 -146.15 -147.15 -148.15 -149.15 -150.15 -151.15 -152.15 -153.15 -154.15 -155.15 -156.15 -157.15 -158.15 -159.15 -160.15 -161.15 -162.15 -163.15 -164.15 -165.15 -166.15 -167.15 -168.15 -169.15 -170.15 -171.15 -172.15 -173.15 -174.15 -175.15 -176.15 -177.15 -178.15 -179.15 -180.15 -181.15 -182.15 -183.15 -184.15 -185.15 -186.15 -187.15 -188.15 -189.15 -190.15 -191.15 -192.15 -193.15 -194.15 -195.15 -196.15 -197.15 -198.15 -199.15 -200.15 -201.15 -202.15 -203.15 -204.15 -205.15 -206.15 -207.15 -208.15 -209.15 -210.15 -211.15 -212.15 -213.15 -214.15 -215.15 -216.15 -217.15 -218.15 -219.15 -220.15 -221.15 -222.15 -223.15 -224.15 -225.15 -226.15 -227.15 -228.15 -229.15 -230.15 -231.15 -232.15 -233.15 -234.15 -235.15 -236.15 -237.15 -238.15 -239.15 -240.15 -241.15 -242.15 -243.15 -244.15 -245.15 -246.15 -247.15 -248.15 -249.15 -250.15 -251.15 -252.15 -253.15 -254.15 -255.15 -256.15 -257.15 -258.15 -259.15 -260.15 -261.15 -262.15 -263.15 -264.15 -265.15 -266.15 -267.15 -268.15 -269.15 -270.15 -271.15 -272.15 -273.15 -274.15 -275.15 -276.15 -277.15 -278.15 -279.15 -280.15 -281.15 -282.15 -283.15 -284.15 -285.15 -286.15 -287.15 -288.15 -289.15 -290.15 -291.15 -292.15 -293.15 -294.15 -295.15 -296.15 -297.15 -298.15 -299.15 -300.15 -301.15 -302.15 -303.15 -304.15 -305.15 -306.15 -307.15 -308.15 -309.15 -310.15 -311.15 -312.15 -313.15 -314.15 -315.15 -316.15 -317.15 -318.15 -319.15 -320.15 -321.15 -322.15 -323.15 -324.15 -325.15 -326.15 -327.15 -328.15 -329.15 -330.15 -331.15 -332.15 -333.15 -334.15 -335.15 -336.15 -337.15 -338.15 -339.15 -340.15 -341.15 -342.15 -343.15 -344.15 -345.15 -346.15 -347.15 -348.15 -349.15 -350.15 -351.15 -352.15 -353.15 -354.15 -355.15 -356.15 -357.15 -358.15 -359.15 -360.15 -361.15 -362.15 -363.15 -364.15 -365.15 -366.15 -367.15 -368.15 -369.15 -370.15 -371.15 -372.15 -373.15 -374.15 -375.15 -376.15 -377.15 -378.15 -379.15 -380.15 -381.15 -382.15 -383.15 -384.15 -385.15 -386.15 -387.15 -388.15 -389.15 -390.15 -391.15 -392.15 -393.15 -394.15 -395.15 -396.15 -397.15 -398.15 -399.15 -400.15 -401.15 -402.15 -403.15 -404.15 -405.15 -406.15 -407.15 -408.15 -409.15 -410.15 -411.15 -412.15 -413.15 -414.15 -415.15 -416.15 -417.15 -418.15 -419.15 -420.15 -421.15 -422.15 -423.15 -424.15 -425.15 -426.15 -427.15 -428.15 -429.15 -430.15 -431.15 -432.15 -433.15 -434.15 -435.15 -436.15 -437.15 -438.15 -439.15 -440.15 -441.15 -442.15 -443.15 -444.15 -445.15 -446.15 -447.15 -448.15 -449.15 -450.15 -451.15 -452.15 -453.15 -454.15 -455.15 -456.15 -457.15 -458.15 -459.15 -460.15 -461.15 -462.15 -463.15 -464.15 -465.15 -466.15 -467.15 -468.15 -469.15 -470.15 -471.15 -472.15 -473.15 -474.15 -475.15 -476.15 -477.15 -478.15 -479.15 -480.15 -481.15 -482.15 -483.15 -484.15 -485.15 -486.15 -487.15 -488.15 -489.15 -490.15 -491.15 -492.15 -493.15 -494.15 -495.15 -496.15 -497.15 -498.15 -499.15 -500.15 -501.15 -502.15 -503.15 -504.15 -505.15 -506.15 -507.15 -508.15 -509.15 -510.15 -511.15 -512.15 -513.15 -514.15 -515.15 -516.15 -517.15 -518.15 -519.15 -520.15 -521.15 -522.15 -523.15 -524.15 -525.15 -526.15 -527.15 -528.15 -529.15 -530.15 -531.15 -532.15 -533.15 -534.15 -535.15 -536.15 -537.15 -538.15 -539.15 -540.15 -541.15 -542.15 -543.15 -544.15 -545.15 -546.15 -547.15 -548.15 -549.15 -550.15 -551.15 -552.15 -553.15 -554.15 -555.15 -556.15 -557.15 -558.15 -559.15 -560.15 -561.15 -562.15 -563.15 -564.15 -565.15 -566.15 -567.15 -568.15 -569.15 -570.15 -571.15 -572.15 -573.15 -574.15 -575.15 -576.15 -577.15 -578.15 -579.15 -580.15 -581.15 -582.15 -583.15 -584.15 -585.15 -586.15 -587.15 -588.15 -589.15 -590.15 -591.15 -592.15 -593.15 -594.15 -595.15 -596.15 -597.15 -598.15 -599.15 -600.15 -601.15 -602.15 -603.15 -604.15 -605.15 -606.15 -607.15 -608.15 -609.15 -610.15 -611.15 -612.15 -613.15 -614.15 -615.15 -616.15 -617.15 -618.15 -619.15 -620.15 -621.15 -622.15 -623.15 -624.15 -625.15 -626.15 -627.15 -628.15 -629.15 -630.15 -631.15 -632.15 -633.15 -634.15 -635.15 -636.15 -637.15 -638.15 -639.15 -640.15 -641.15 -642.15 -643.15 -644.15 -645.15 -646.15 -647.15 -648.15 -649.15 -650.15 -651.15 -652.15 -653.15 -654.15 -655.15 -656.15 -657.15 -658.15 -659.15 -660.15 -661.15 -662.15 -663.15 -664.15 -665.15 -666.15 -667.15 -668.15 -669.15 -670.15 -671.15 -672.15 -673.15 -674.15 -675.15 -676.15 -677.15 -678.15 -679.15 -680.15 -681.15 -682.15 -683.15 -684.15 -685.15 -686.15 -687.15 -688.15 -689.15 -690.15 -691.15 -692.15 -693.15 -694.15 -695.15 -696.15 -697.15 -698.15 -699.15 -700.15 -701.15 -702.15 -703.15 -704.15 -705.15 -706.15 -707.15 -708.15 -709.15 -710.15 -711.15 -712.15 -713.15 -714.15 -715.15 -716.15 -717.15 -718.15 -719.15 -720.15 -721.15 -722.15 -723.15 -724.15 -725.15 -726.15 -727.15 -728.15 -729.15 -730.15 -731.15 -732.15 -733.15 -734.15 -735.15 -736.15 -737.15 -738.15 -739.15 -740.15 -741.15 -742.15 -743.15 -744.15 -745.15 -746.15 -747.15 -748.15 -749.15 -750.15 -751.15 -752.15 -753.15 -754.15 -755.15 -756.15 -757.15 -758.15 -759.15 -760.15 -761.15 -762.15 -763.15 -764.15 -765.15 -766.15 -767.15 -768.15 -769.15 -770.15 -771.15 -772.15 -773.15 -774.15 -775.15 -776.15 -777.15 -778.15 -779.15 -780.15 -781.15 -782.15 -783.15 -784.15 -785.15 -786.15 -787.15 -788.15 -789.15 -790.15 -791.15 -792.15 -793.15 -794.15 -795.15 -796.15 -797.15 -798.15 -799.15 -800.15 -801.15 -802.15 -803.15 -804.15 -805.15 -806.15 -807.15 -808.15 -809.15 -810.15 -811.15 -812.15 -813.15 -814.15 -815.15 -816.15 -817.15 -818.15 -819.15 -820.15 -821.15 -822.15 -823.15 -824.15 -825.15 -826.15 -827.15 -828.15 -829.15 -830.15 -831.15 -832.15 -833.15 -834.15 -835.15 -836.15 -837.15 -838.15 -839.15 -840.15 -841.15 -842.15 -843.15 -844.15 -845.15 -846.15 -847.15 -848.15 -849.15 -850.15 -851.15 -852.15 -853.15 -854.15 -855.15 -856.15 -857.15 -858.15 -859.15 -860.15 -861.15 -862.15 -863.15 -864.15 -865.15 -866.15 -867.15 -868.15 -869.15 -870.15 -871.15 -872.15 -873.15 -874.15 -875.15 -876.15 -877.15 -878.15 -879.15 -880.15 -881.15 -882.15 -883.15 -884.15 -885.15 -886.15 -887.15 -888.15 -889.15 -890.15 -891.15 -892.15 -893.15 -894.15 -895.15 -896.15 -897.15 -898.15 -899.15 -900.15 -901.15 -902.15 -903.15 -904.15 -905.15 -906.15 -907.15 -908.15 -909.15 -910.15 -911.15 -912.15 -913.15 -914.15 -915.15 -916.15 -917.15 -918.15 -919.15 -920.15 -921.15 -922.15 -923.15 -924.15 -925.15 -926.15 -927.15 -928.15 -929.15 -930.15 -931.15 -932.15 -933.15 -934.15 -935.15 -936.15 -937.15 -938.15 -939.15 -940.15 -941.15 -942.15 -943.15 -944.15 -945.15 -946.15 -947.15 -948.15 -949.15 -950.15 -951.15 -952.15 -953.15 -954.15 -955.15 -956.15 -957.15 -958.15 -959.15 -960.15 -961.15 -962.15 -963.15 -964.15 -965.15 -966.15 -967.15 -968.15 -969.15 -970.15 -971.15 -972.15 -973.15 -974.15 -975.15 -976.15 -977.15 -978.15 -979.15 -980.15 -981.15 -982.15 -983.15 -984.15 -985.15 -986.15 -987.15 -988.15 -989.15 -990.15 -991.15 -992.15 -993.15 -994.15 -995.15 -996.15 -997.15 -998.15 -999.15 -1000.15 -1001.15 -1002.15 -1003.15 -1004.15 -1005.15 -1006.15 -1007.15 -1008.15 -1009.15 -1010.15 -1011.15 -1012.15 -1013.15 -1014.15 -1015.15 -1016.15 -1017.15 -1018.15 -1019.15 -1020.15 -1021.15 -1022.15 -1023.15 -1024.15 -1025.15 -1026.15 -1027.15 -1028.15 -1029.15 -1030.15 -1031.15 -1032.15 -1033.15 -1034.15 -1035.15 -1036.15 -1037.15 -1038.15 -1039.15 -1040.15 -1041.15 -1042.15 -1043.15 -1044.15 -1045.15 -1046.15 -1047.15 -1048.15 -1049.15 -1050.15 -1051.15 -1052.15 -1053.15 -1054.15 -1055.15 -1056.15 -1057.15 -1058.15 -1059.15 -1060.15 -1061.15 -1062.15 -1063.15 -1064.15 -1065.15 -1066.15 -1067.15 -1068.15 -1069.15 -1070.15 -1071.15 -1072.15 -1073.15 -1074.15 -1075.15 -1076.15 -1077.15 -1078.15 -1079.15 -1080.15 -1081.15 -1082.15 -1083.15 -1084.15 -1085.15 -1086.15 -1087.15 -1088.15 -1089.15 -1090.15 -1091.15 -1092.15 -1093.15 -1094.15 -1095.15 -1096.15 -1097.15 -1098.15 -1099.15 -1100.15



MIMO:

Channel(MHz)	W52:802.11ac(VHT20)																																																																																	
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 8.85 dB Ref 28.85 dBm 10 dBm/10 16.0 8.0 0.0 -8.0 -16.0 -24.0 -32.0 -40.0 -48.0 -45.0 dBc -27.2 dBc 20.2 dBm -25.3 dBc -43.0 dBc Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 20.178 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 20.178 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-27.23</td><td>-7.047</td><td>-25.32</td><td>-5.142</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-43.04</td><td>-24.86</td><td>-43.80</td><td>-23.42</td><td>OFF</td></tr></tbody></table> 5200 Agilent Spectrum Analyzer - ALP Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 9.12 dB Ref 29.12 dBm 10 dBm/10 16.0 8.0 0.0 -8.0 -16.0 -24.0 -32.0 -40.0 -48.0 -45.0 dBc -27.4 dBc 19.7 dBm -25.2 dBc -44.0 dBc Center 5.2 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 19.676 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 19.676 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-27.35</td><td>-7.684</td><td>-25.16</td><td>-5.459</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-43.88</td><td>-20.21</td><td>-43.97</td><td>-24.30</td><td>OFF</td></tr></tbody></table> 5240 Agilent Spectrum Analyzer - ALP Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 8.88 dB Ref 28.88 dBm 10 dBm/10 16.0 8.0 0.0 -8.0 -16.0 -24.0 -32.0 -40.0 -48.0 -47.5 dBc -27.0 dBc 20.5 dBm -25.5 dBc -45.7 dBc Center 5.24 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 20.555 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 20.555 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-26.96</td><td>-6.410</td><td>-25.48</td><td>-4.928</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-47.46</td><td>-20.91</td><td>-45.58</td><td>-25.12</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1 20.178 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-27.23	-7.047	-25.32	-5.142	OFF			40.00 MHz	20.00 MHz	-43.04	-24.86	-43.80	-23.42	OFF	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1 19.676 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-27.35	-7.684	-25.16	-5.459	OFF			40.00 MHz	20.00 MHz	-43.88	-20.21	-43.97	-24.30	OFF	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1 20.555 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-26.96	-6.410	-25.48	-4.928	OFF			40.00 MHz	20.00 MHz	-47.46	-20.91	-45.58	-25.12	OFF
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter																																																																										
1 20.178 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-27.23	-7.047	-25.32	-5.142	OFF																																																																										
		40.00 MHz	20.00 MHz	-43.04	-24.86	-43.80	-23.42	OFF																																																																										
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter																																																																										
1 19.676 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-27.35	-7.684	-25.16	-5.459	OFF																																																																										
		40.00 MHz	20.00 MHz	-43.88	-20.21	-43.97	-24.30	OFF																																																																										
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter																																																																										
1 20.555 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-26.96	-6.410	-25.48	-4.928	OFF																																																																										
		40.00 MHz	20.00 MHz	-47.46	-20.91	-45.58	-25.12	OFF																																																																										

Channel(MHz)	W52:802.11ac(VHT40)																																																																																							
5190	Agilent Spectrum Analyzer - ALP Center Freq 5.190000000 GHz Center Freq: 5.190000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 8.04 dB Ref 29.04 dBm 10 dB/div Log 0 dB 20 dB 40 dB 60 dB -44.4 dBc -30.9 dBc 19.1 dBm -25.2 dBc -42.7 dBc Center 5.19 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 18.129 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 18.129 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>40.00 MHz</td><td>-30.81</td><td>-12.48</td><td>-25.21</td><td>-7.080</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-44.38</td><td>-26.25</td><td>-42.66</td><td>-24.53</td><td>OFF</td></tr></tbody></table> <tr><td>5230</td><td> Agilent Spectrum Analyzer - ALP Center Freq 5.230000000 GHz Center Freq: 5.230000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 8.96 dB Ref 28.96 dBm 10 dB/div Log 0 dB 20 dB 40 dB 60 dB -45.3 dBc -30.1 dBc 19.2 dBm -25.1 dBc -44.0 dBc Center 5.23 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 19.188 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 19.188 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>40.00 MHz</td><td>-30.14</td><td>-10.95</td><td>-25.67</td><td>-6.485</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-45.34</td><td>-26.15</td><td>-43.98</td><td>-24.77</td><td>OFF</td></tr></tbody></table> <tr><td>Channel(MHz)</td><td>W52:802.11ac(VHT80)</td></tr><tr><td>5210</td><td> Agilent Spectrum Analyzer - ALP Center Freq 5.210000000 GHz Center Freq: 5.210000000 GHz Trig: Free Run #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 9.03 dB Ref 29.03 dBm 10 dB/div Log 0 dB 20 dB 40 dB 60 dB -43.5 dBc -36.2 dBc 19.2 dBm -26.9 dBc -42.3 dBc Center 5.21 GHz #Res BW 300 kHz #VBW 300 kHz Span 400 MHz Sweep 20 ms Total Carrier Power 19.208 dBm/80.00 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 19.208 dBm / 80.00 MHz</td><td>OFF</td><td>80.00 MHz</td><td>80.00 MHz</td><td>-35.16</td><td>-15.97</td><td>-26.68</td><td>-7.670</td><td>OFF</td></tr><tr><td></td><td></td><td>160.0 MHz</td><td>80.00 MHz</td><td>-43.49</td><td>-24.26</td><td>-42.50</td><td>-23.09</td><td>OFF</td></tr></tbody></table> </td></tr></td></tr>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1 18.129 dBm / 40.00 MHz	OFF	40.00 MHz	40.00 MHz	-30.81	-12.48	-25.21	-7.080	OFF			80.00 MHz	40.00 MHz	-44.38	-26.25	-42.66	-24.53	OFF	5230	Agilent Spectrum Analyzer - 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5240	Agilent Spectrum Analyzer - ALP Center Freq 5.180000000 GHz Ref Offset 8.85 dB Ref 28.85 dBm Center 5.18 GHz #Res BW 300 kHz Span 100 MHz Sweep 20 ms Center Freq 5.200000000 GHz Ref Offset 9.12 dB Ref 29.12 dBm Center 5.2 GHz #Res BW 300 kHz Span 100 MHz Sweep 20 ms Center Freq 5.240000000 GHz Ref Offset 8.99 dB Ref 28.99 dBm Center 5.24 GHz #Res BW 300 kHz Span 100 MHz Sweep 20 ms

Channel(MHz)	W52:802.11n(HT40)																																														
5190	Agilent Spectrum Analyzer - ALP 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 8.04 dB Ref 29.04 dBm 10 dB/div Log 0 dB 10 dB 20 dB 30 dB 40 dB 50 dB 60 dB -45.6 dBc -31.6 dBc 19.5 dBm -25.7 dBc -43.8 dBc Center 5.19 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 19.539 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 19.539 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>40.00 MHz</td><td>-31.60</td><td>-12.06</td><td>-25.72</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-45.59</td><td>-26.05</td><td>-43.80</td><td>OFF</td></tr></tbody></table> 5230 Agilent Spectrum Analyzer - ALP 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 8.96 dB Ref 28.96 dBm 10 dB/div Log 0 dB 10 dB 20 dB 30 dB 40 dB 50 dB 60 dB -46.4 dBc -30.5 dBc 20.5 dBm -25.5 dBc -45.0 dBc Center 5.23 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 20.541 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 20.541 dBm / 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>40.00 MHz</td><td>-30.48</td><td>-9.04</td><td>-25.55</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-46.42</td><td>-25.88</td><td>-44.98</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 19.539 dBm / 40.00 MHz	OFF	40.00 MHz	40.00 MHz	-31.60	-12.06	-25.72	OFF			80.00 MHz	40.00 MHz	-45.59	-26.05	-43.80	OFF	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 20.541 dBm / 40.00 MHz	OFF	40.00 MHz	40.00 MHz	-30.48	-9.04	-25.55	OFF			80.00 MHz	40.00 MHz	-46.42	-25.88	-44.98	OFF
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9. Antenna Power and Tolerance

9.1 LIMIT

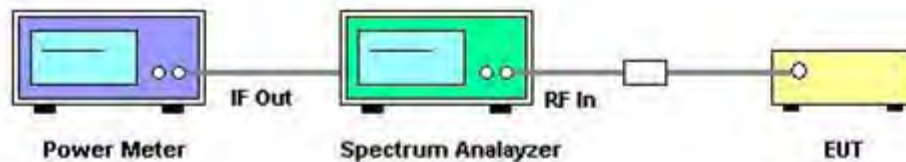
- (1) 10mW/MHz (OFDM, DSSS: 20MHz system),
 - (2) 5mW/MHz (OFDM: 40MHz system),
 - (3) 2.5mW/MHz (OFDM: 80MHz system),
 - (4) 1.25mW/MHz (OFDM: 160MHz system),
 - (5) 10mW/MHz (except above methods),
- Tolerance: W52/W53: -80%~+20%, W56: -50%~+50%.

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	5.025	3.181	7.320	10	8	-60.243	-80% ~
	MCH	4.973	3.143	7.233	10	8	-60.717	
	HCH	5.226	3.331	7.667	10	8	-58.360	
802.11a ANT 2	LCH	4.868	3.068	7.060	10	8	-61.655	+20%
	MCH	5.186	3.301	7.596	10	8	-58.742	
	HCH	5.093	3.231	7.435	10	8	-59.616	

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	2.728	3.683	4.209	5	3.62	9.687	10	-15.816	-80% ~ +20%
	MCH	3.526	2.848	4.179	5	3.62	9.617	10	-16.424	
	HCH	2.946	3.739	4.336	5	3.62	9.979	10	-13.280	
802.11ac (VHT20)	LCH	3.744	2.731	4.244	5	3.62	9.766	10	-15.129	
	MCH	2.482	3.906	4.229	5	3.62	9.733	10	-15.419	
	HCH	3.826	2.856	4.343	5	3.62	9.996	10	-13.131	
802.11n (HT40)	LCH	-0.289	-0.311	1.867	2	3.62	4.296	5	-6.674	
	HCH	-0.602	-0.56	1.750	2	3.62	4.027	5	-12.521	
802.11ac (VHT40)	LCH	-0.128	-0.351	1.893	2	3.62	4.357	5	-5.334	
	HCH	-0.176	-0.432	1.866	2	3.62	4.294	5	-6.720	
802.11ac (VHT80)	MCH	-4.077	-4.323	0.761	1	3.62	1.751	2.5	-23.932	

Note: P= Average burst power, G= Antenna Gain=3.62dBi
EIRP = Conducted Power + Antenna Gain

10. Unwanted Emissions Strength

10.1 LIMIT

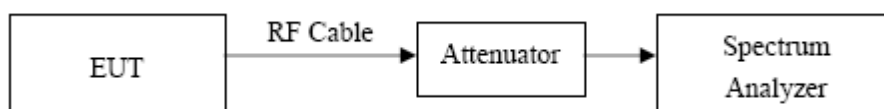
W52	
20MHz system	
OBW : 18MHz or less	OBW : 18 - 20 MHz
5,142 MHz or less : 2.5 μ W/MHz	5,142 MHz or less : 2.5 μ W/MHz
5,142 - 5,150 MHz : 15 μ W/MHz	5,142 - 5,150 MHz : 15 μ W/MHz
	5,250 - 5,250.2 MHz : $10^{1-(8/2)(f-9.75)}$ mW/MHz
5,250 - 5,251 MHz : $10^{1-(f-9)}$ mW/MHz	5,250.2 - 5,251 MHz : $10^{1-(f-9)}$ 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

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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	5142	-37.24	-26	-26	PASS
		5142MHz-5150MHz	5148.48	-23.59	-18	-18	PASS
		5250MHz-5251MHz	5250.34	-40.85	0	-10	PASS
		5251MHz-5260MHz	5257.17	-36.38	-10	-18	PASS
		5260MHz-5266.7MHz	5261.43	-40.02	-18	-26	PASS
		5266.7MHz-26000MHz	24631.6	-34.86	-26	-26	PASS
	5200MHz	30MHz-5142MHz	5142	-44.28	-26	-26	PASS
		5142MHz-5150MHz	5149.65	-33.9	-18	-18	PASS
		5250MHz-5251MHz	5250.21	-34.25	0	-10	PASS
		5251MHz-5260MHz	5255.26	-33.47	-10	-18	PASS
		5260MHz-5266.7MHz	5262.52	-33.52	-18	-26	PASS
		5266.7MHz-26000MHz	24652.34	-34.54	-26	-26	PASS
	5240MHz	30MHz-5142MHz	2626.9	-44.85	-26	-26	PASS
		5142MHz-5150MHz	5144.13	-42.19	-18	-18	PASS
		5250MHz-5251MHz	5250.01	-21.03	0	-10	PASS
		5251MHz-5260MHz	5251.59	-25.83	-10	-18	PASS
		5260MHz-5266.7MHz	5260.86	-29.72	-18	-26	PASS
		5266.7MHz-26000MHz	24631.6	-34.32	-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	2744.47	-45.37	-26	-26	PASS
		5142MHz-5150MHz	5148.52	-37.3	-18	-18	PASS
		5250MHz-5251MHz	5250.24	-42.63	0	-10	PASS
		5251MHz-5260MHz	5254.38	-42.59	-10	-18	PASS
		5260MHz-5266.7MHz	5261.15	-42.83	-18	-26	PASS
		5266.7MHz-26000MHz	24631.6	-34.62	-26	-26	PASS
	5200MHz	30MHz-5142MHz	2637.12	-44.79	-26	-26	PASS
		5142MHz-5150MHz	5146.22	-41.25	-18	-18	PASS
		5250MHz-5251MHz	5250.56	-42.69	0	-10	PASS

		5251MHz-5260MHz	5258.84	-42.51	-10	-18	PASS
		5260MHz-5266.7MHz	5261.29	-42.17	-18	-26	PASS
		5266.7MHz-26000MHz	24673.07	-34.32	-26	-26	PASS
	5240MHz	30MHz-5142MHz	3271.01	-44.91	-26	-26	PASS
		5142MHz-5150MHz	5143.54	-42.19	-18	-18	PASS
		5250MHz-5251MHz	5250	-12.34	0	-10	PASS
		5251MHz-5260MHz	5250.24	-13.69	-10	-18	PASS
		5260MHz-5266.7MHz	5251.47	-14.4	-18	-26	PASS
		5266.7MHz-26000MHz	5261.39	-24.6	-26	-26	PASS
Normal Voltage	5190MHz	30MHz-5141.6MHz	5266.7	-34.47	-26	-26	PASS
		5141.6MHz-5150MHz	5141.6	-36.22	-18	-18	PASS
		5250MHz-5251MHz	5148.48	-26.61	-3	-13	PASS
		5251MHz-5270MHz	5250.51	-35.27	-13	-21	PASS
		5270MHz-5278.4MHz	5253.11	-35.16	-21	-26	PASS
		5278.4MHz-26000MHz	5270.7	-39.67	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	24632.37	-34.32	-26	-26	PASS
		5141.6MHz-5150MHz	3163.41	-45.35	-18	-18	PASS
		5250MHz-5251MHz	5141.99	-41.56	-3	-13	PASS
		5251MHz-5270MHz	5250.04	-23.63	-13	-21	PASS
		5270MHz-5278.4MHz	5251.95	-26.27	-21	-26	PASS
		5278.4MHz-26000MHz	5270.38	-29.36	-26	-26	PASS
Normal Voltage	5210MHz	30MHz-5123.2MHz	24653.1	-34.42	-26	-26	PASS
		5123.2MHz-5150MHz	5113.01	-43.27	-18	-18	PASS
		5250MHz-5251MHz	5140.65	-37.56	-6	-16	PASS
		5251MHz-5290MHz	5250.02	-17.75	-16	-24	PASS
		5290MHz-5296.7MHz	5251.31	-21.96	-24	-26	PASS
		5296.7MHz-26000MHz	5290.25	-32.19	-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	3260.78	-44.94	-26	-26	PASS
		5142MHz-5150MHz	5148.73	-42.96	-18	-18	PASS
		5250MHz-5251MHz	5250.01	-12.46	0	-10	PASS
		5251MHz-5260MHz	5251.1	-15.91	-10	-18	PASS
		5260MHz-5266.7MHz	5260.03	-22.49	-18	-26	PASS
		5266.7MHz-26000MHz	5266.7	-32.96	-26	-26	PASS
	5200MHz	30MHz-5142MHz	3276.12	-45.02	-26	-26	PASS
		5142MHz-5150MHz	5147.67	-41.23	-18	-18	PASS
		5250MHz-5251MHz	5250.03	-42.21	0	-10	PASS
		5251MHz-5260MHz	5252.84	-42.1	-10	-18	PASS
		5260MHz-5266.7MHz	5264.96	-42.54	-18	-26	PASS
		5266.7MHz-26000MHz	24631.6	-34.31	-26	-26	PASS
	5240MHz	30MHz-5142MHz	3306.79	-44.87	-26	-26	PASS
		5142MHz-5150MHz	5147.82	-42.23	-18	-18	PASS
		5250MHz-5251MHz	5250	-12.25	0	-10	PASS
		5251MHz-5260MHz	5251.53	-20.05	-10	-18	PASS
		5260MHz-5266.7MHz	5260.12	-24.06	-18	-26	PASS
		5266.7MHz-26000MHz	24631.6	-34.47	-26	-26	PASS
Normal Voltage	5190MHz	30MHz-5141.6MHz	5141.6	-38.67	-26	-26	PASS
		5141.6MHz-5150MHz	5147.76	-26.65	-18	-18	PASS
		5250MHz-5251MHz	5250.33	-35.17	-3	-13	PASS
		5251MHz-5270MHz	5253.87	-36.19	-13	-21	PASS
		5270MHz-5278.4MHz	5271.8	-40.87	-21	-26	PASS
		5278.4MHz-26000MHz	24673.82	-34.33	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	2667.59	-45.24	-26	-26	PASS
		5141.6MHz-5150MHz	5148.62	-40.01	-18	-18	PASS
		5250MHz-5251MHz	5250.01	-20.35	-3	-13	PASS
		5251MHz-5270MHz	5252.12	-20.12	-13	-21	PASS
		5270MHz-5278.4MHz	5272.15	-23.23	-21	-26	PASS
		5278.4MHz-26000MHz	24632.37	-34.36	-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	3056.3	-45.08	-26	-26	PASS
		5142MHz-5150MHz	5149.62	-34.6	-18	-18	PASS
		5250MHz-5251MHz	5250.02	-42.67	0	-10	PASS
		5251MHz-5260MHz	5258.13	-42.33	-10	-18	PASS
		5260MHz-5266.7MHz	5260.29	-41.05	-18	-26	PASS
		5266.7MHz-26000MHz	24631.6	-34.73	-26	-26	PASS
	5200MHz	30MHz-5142MHz	3122.76	-44.96	-26	-26	PASS
		5142MHz-5150MHz	5148.95	-42.25	-18	-18	PASS
		5250MHz-5251MHz	5250.36	-39.37	0	-10	PASS
		5251MHz-5260MHz	5252.76	-40.23	-10	-18	PASS
		5260MHz-5266.7MHz	5262.2	-41.99	-18	-26	PASS
		5266.7MHz-26000MHz	24652.34	-34	-26	-26	PASS
	5240MHz	30MHz-5142MHz	4942.63	-44.51	-26	-26	PASS
		5142MHz-5150MHz	5149.7	-41.04	-18	-18	PASS
		5250MHz-5251MHz	5250.04	-23.16	0	-10	PASS
		5251MHz-5260MHz	5251.34	-31.1	-10	-18	PASS
		5260MHz-5266.7MHz	5260.24	-34.22	-18	-26	PASS
		5266.7MHz-26000MHz	24631.6	-34.32	-26	-26	PASS

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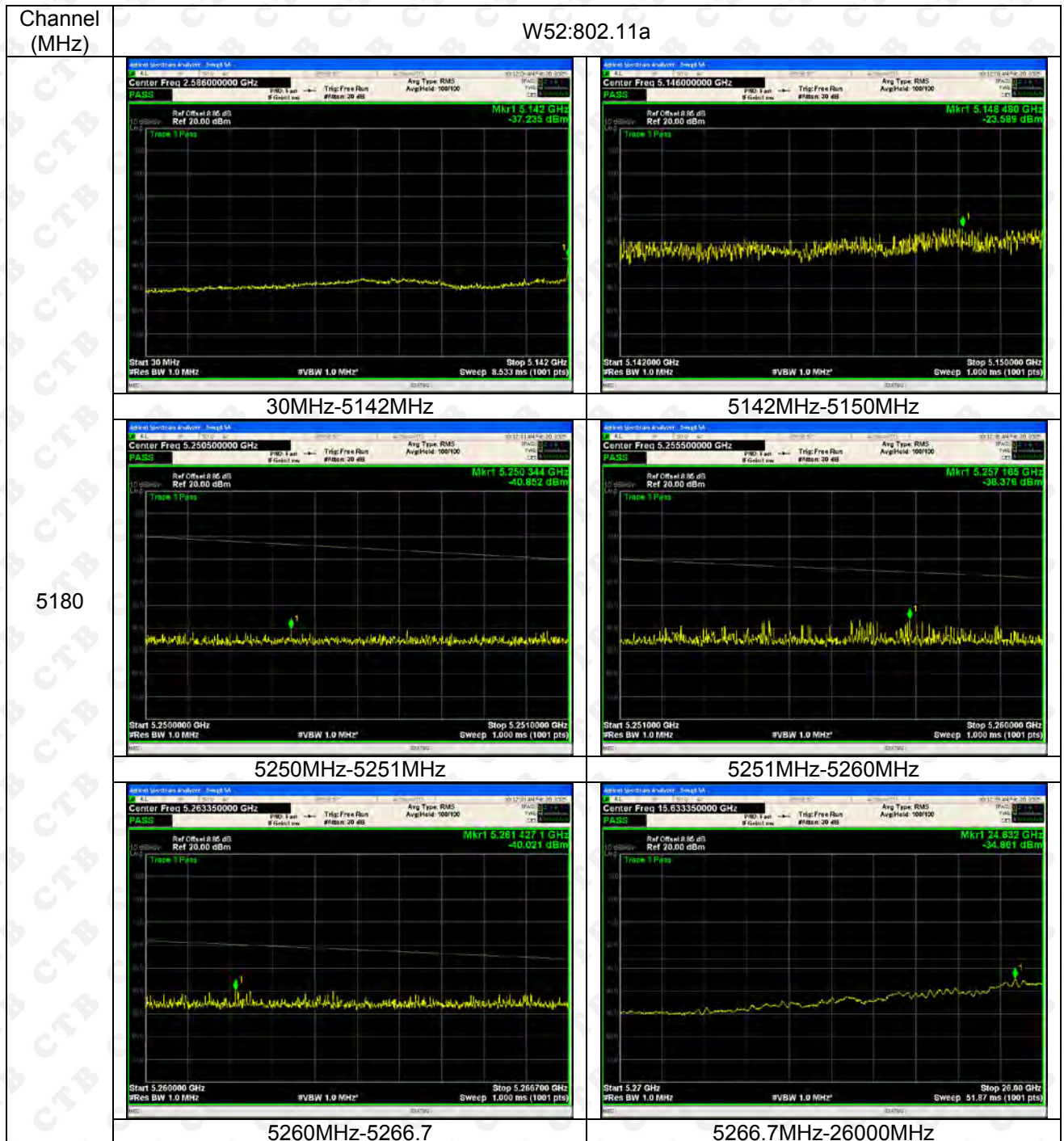
Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	5142	-45.33	-26	-26	PASS
		5142MHz-5150MHz	5149.15	-36.58	-18	-18	PASS
		5250MHz-5251MHz	5250.5	-42.4	0	-10	PASS
		5251MHz-5260MHz	5254.38	-43.16	-10	-18	PASS
		5260MHz-5266.7MHz	5261.75	-42.41	-18	-26	PASS
		5266.7MHz-26000MHz	24631.6	-34.79	-26	-26	PASS
	5200MHz	30MHz-5142MHz	5111.33	-44.56	-26	-26	PASS
		5142MHz-5150MHz	5146.71	-41.41	-18	-18	PASS
		5250MHz-5251MHz	5250.96	-42.48	0	-10	PASS
		5251MHz-5260MHz	5254.7	-42.15	-10	-18	PASS
		5260MHz-5266.7MHz	5265.86	-42.14	-18	-26	PASS

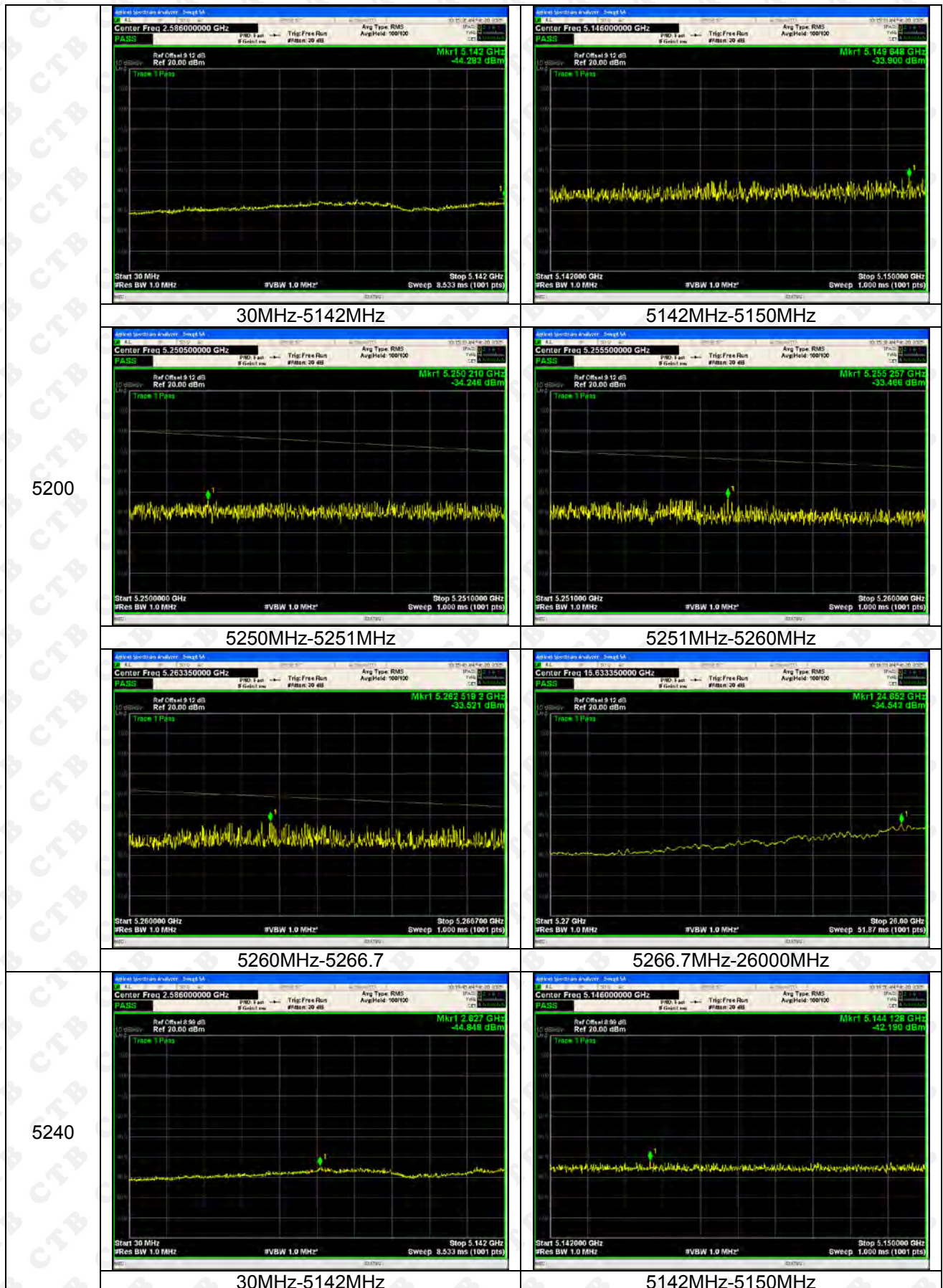
	5240MHz	5266.7MHz-26000MHz	24673.07	-34.28	-26	-26	PASS
		30MHz-5142MHz	2621.78	-45.39	-26	-26	PASS
		5142MHz-5150MHz	5148.65	-42.47	-18	-18	PASS
		5250MHz-5251MHz	5250	-12.05	0	-10	PASS
		5251MHz-5260MHz	5251.44	-13.68	-10	-18	PASS
		5260MHz-5266.7MHz	5260.09	-22.39	-18	-26	PASS
		5266.7MHz-26000MHz	5266.7	-33.73	-26	-26	PASS
Normal Voltage	5190MHz	30MHz-5141.6MHz	5141.6	-43.26	-26	-26	PASS
		5141.6MHz-5150MHz	5149.94	-35.01	-18	-18	PASS
		5250MHz-5251MHz	5250.06	-39.94	-3	-13	PASS
		5251MHz-5270MHz	5252.77	-41.49	-13	-21	PASS
		5270MHz-5278.4MHz	5276.64	-42.89	-21	-26	PASS
		5278.4MHz-26000MHz	24673.82	-34.36	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	2590.91	-44.92	-26	-26	PASS
		5141.6MHz-5150MHz	5147.14	-42.25	-18	-18	PASS
		5250MHz-5251MHz	5250.02	-25.28	-3	-13	PASS
		5251MHz-5270MHz	5257.73	-28.7	-13	-21	PASS
		5270MHz-5278.4MHz	5270.24	-30.23	-21	-26	PASS
		5278.4MHz-26000MHz	24632.37	-34.7	-26	-26	PASS
Normal Voltage	5210MHz	30MHz-5123.2MHz	3264.18	-44.9	-26	-26	PASS
		5123.2MHz-5150MHz	5144.56	-41.3	-18	-18	PASS
		5250MHz-5251MHz	5250.05	-21.7	-6	-16	PASS
		5251MHz-5290MHz	5251.08	-25.87	-16	-24	PASS
		5290MHz-5296.7MHz	5294.84	-41.09	-24	-26	PASS
		5296.7MHz-26000MHz	24654.29	-34.3	-26	-26	PASS

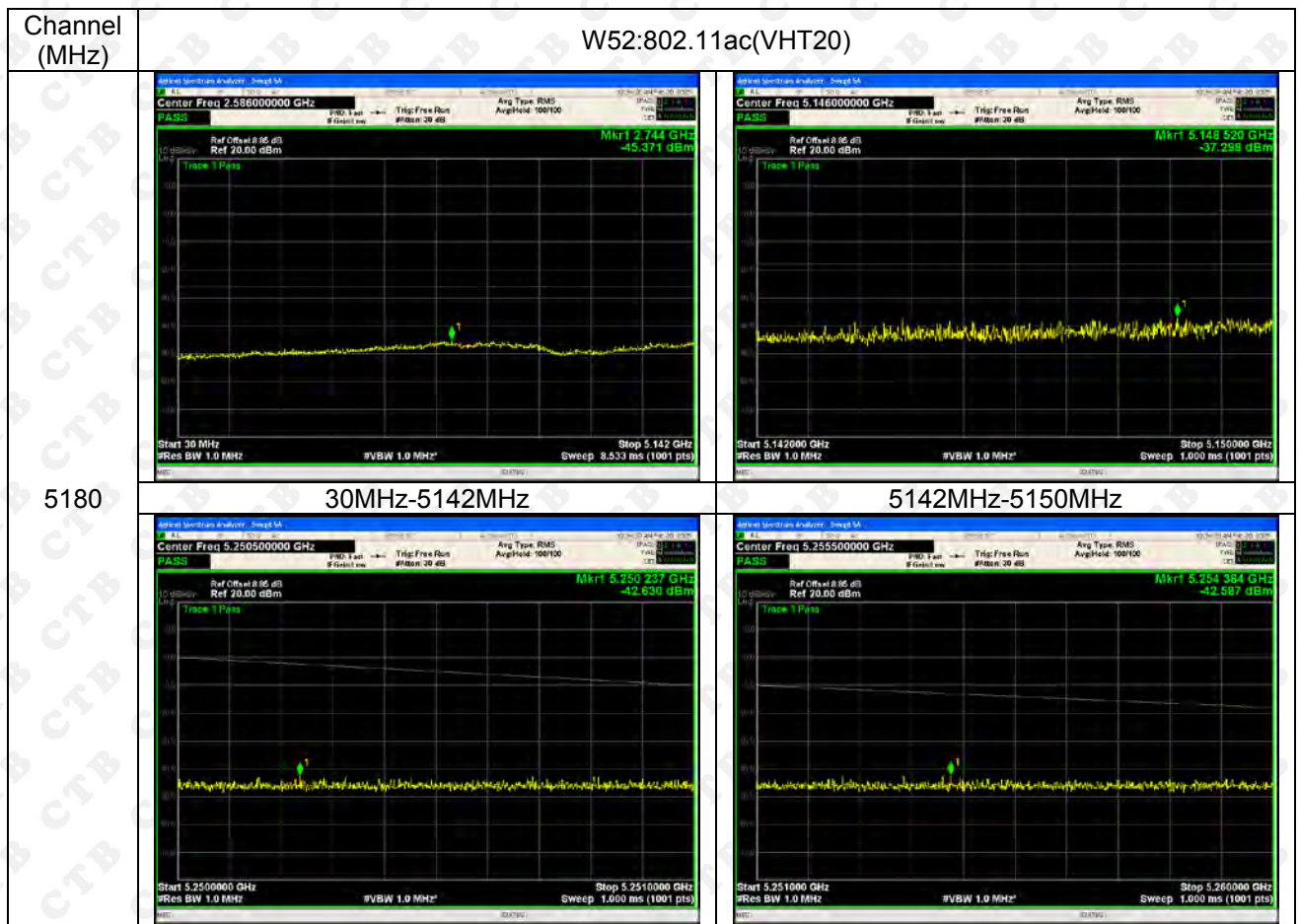
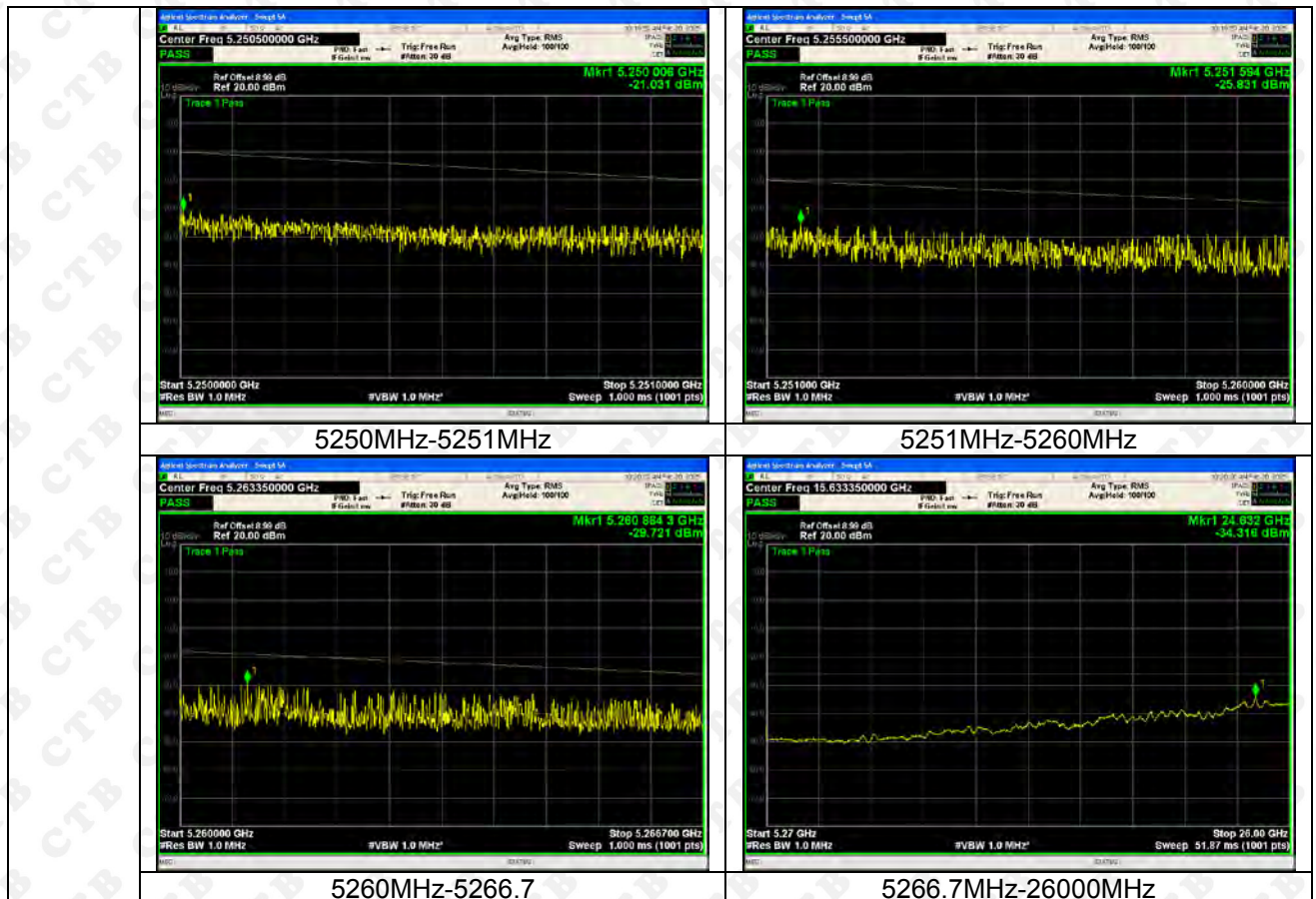
802.11n

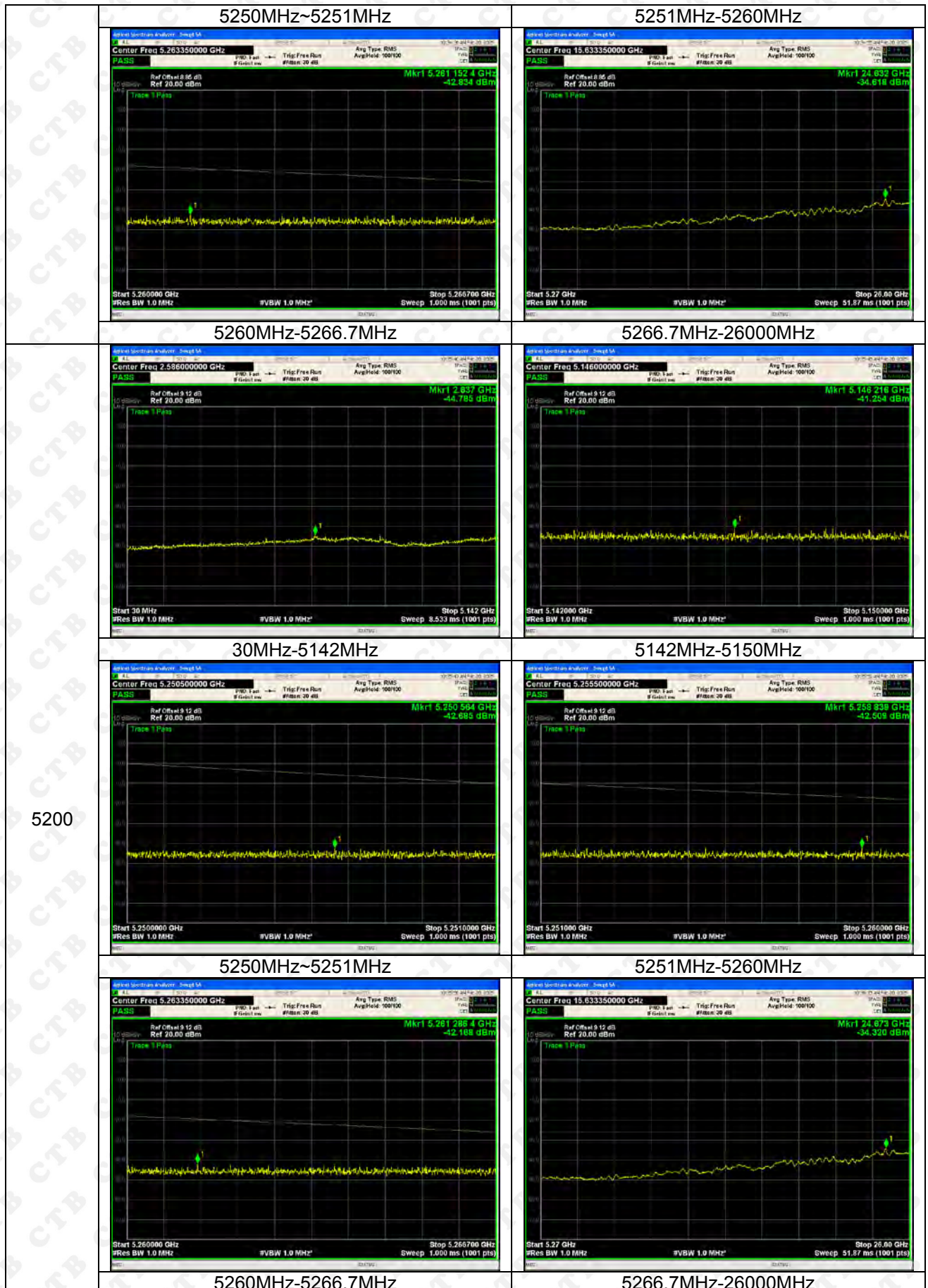
Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	5142	-44.47	-26	-26	PASS
		5142MHz-5150MHz	5149.02	-35.96	-18	-18	PASS
		5250MHz-5251MHz	5250.07	-42.68	0	-10	PASS
		5251MHz-5260MHz	5255.44	-43.04	-10	-18	PASS
		5260MHz-5266.7MHz	5264.52	-41.97	-18	-26	PASS
		5266.7MHz-26000MHz	24652.34	-34.83	-26	-26	PASS
	5200MHz	30MHz-5142MHz	5142	-44.92	-26	-26	PASS
		5142MHz-5150MHz	5147.46	-39.28	-18	-18	PASS
		5250MHz-5251MHz	5250.14	-42.37	0	-10	PASS
		5251MHz-5260MHz	5252.16	-42.11	-10	-18	PASS
		5260MHz-5266.7MHz	5260.07	-42.08	-18	-26	PASS
		5266.7MHz-26000MHz	24652.34	-34.45	-26	-26	PASS
	5240MHz	30MHz-5142MHz	5116.44	-44.95	-26	-26	PASS
		5142MHz-5150MHz	5145.9	-42.21	-18	-18	PASS
		5250MHz-5251MHz	5250	-15.95	0	-10	PASS
		5251MHz-5260MHz	5250.2	-18.92	-10	-18	PASS
		5260MHz-5266.7MHz	5251.09	-29.92	-18	-26	PASS
		5266.7MHz-26000MHz	5260.22	-36.25	-26	-26	PASS
Normal Voltage	5190MHz	30MHz-5141.6MHz	24652.34	-34.58	-26	-26	PASS
		5141.6MHz-5150MHz	5141.6	-44.52	-18	-18	PASS
		5250MHz-5251MHz	5147.54	-35	-3	-13	PASS
		5251MHz-5270MHz	5250.64	-41.74	-13	-21	PASS
		5270MHz-5278.4MHz	5263.92	-42.51	-21	-26	PASS
		5278.4MHz-26000MHz	5277.01	-42.1	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	24653.1	-34.6	-26	-26	PASS
		5141.6MHz-5150MHz	3025.4	-44.88	-18	-18	PASS
		5250MHz-5251MHz	5142.66	-41.09	-3	-13	PASS
		5251MHz-5270MHz	5250.03	-23.54	-13	-21	PASS
		5270MHz-5278.4MHz	5251.74	-30.29	-21	-26	PASS
		5278.4MHz-26000MHz	5273.34	-34.06	-26	-26	PASS

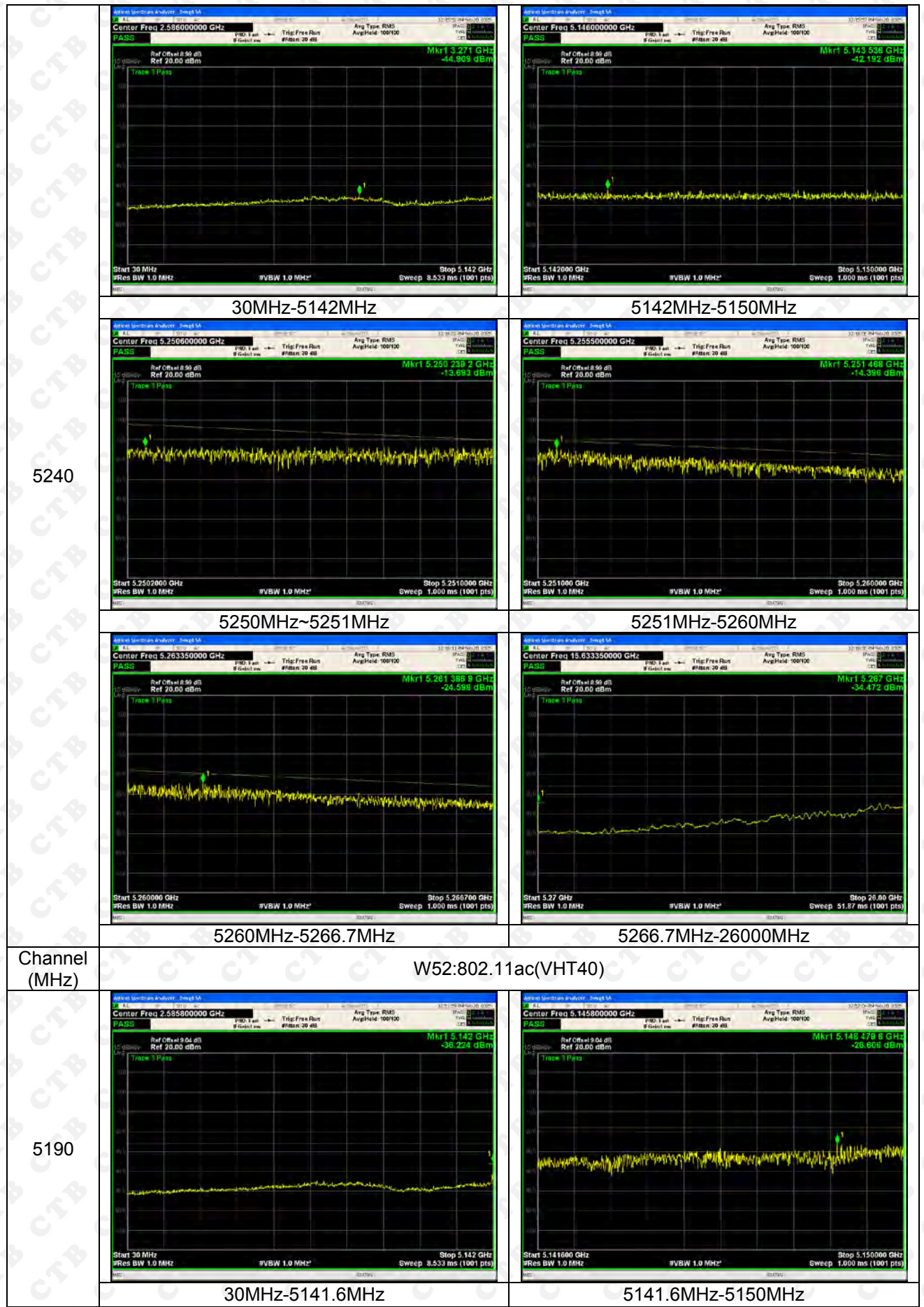
ANT 1

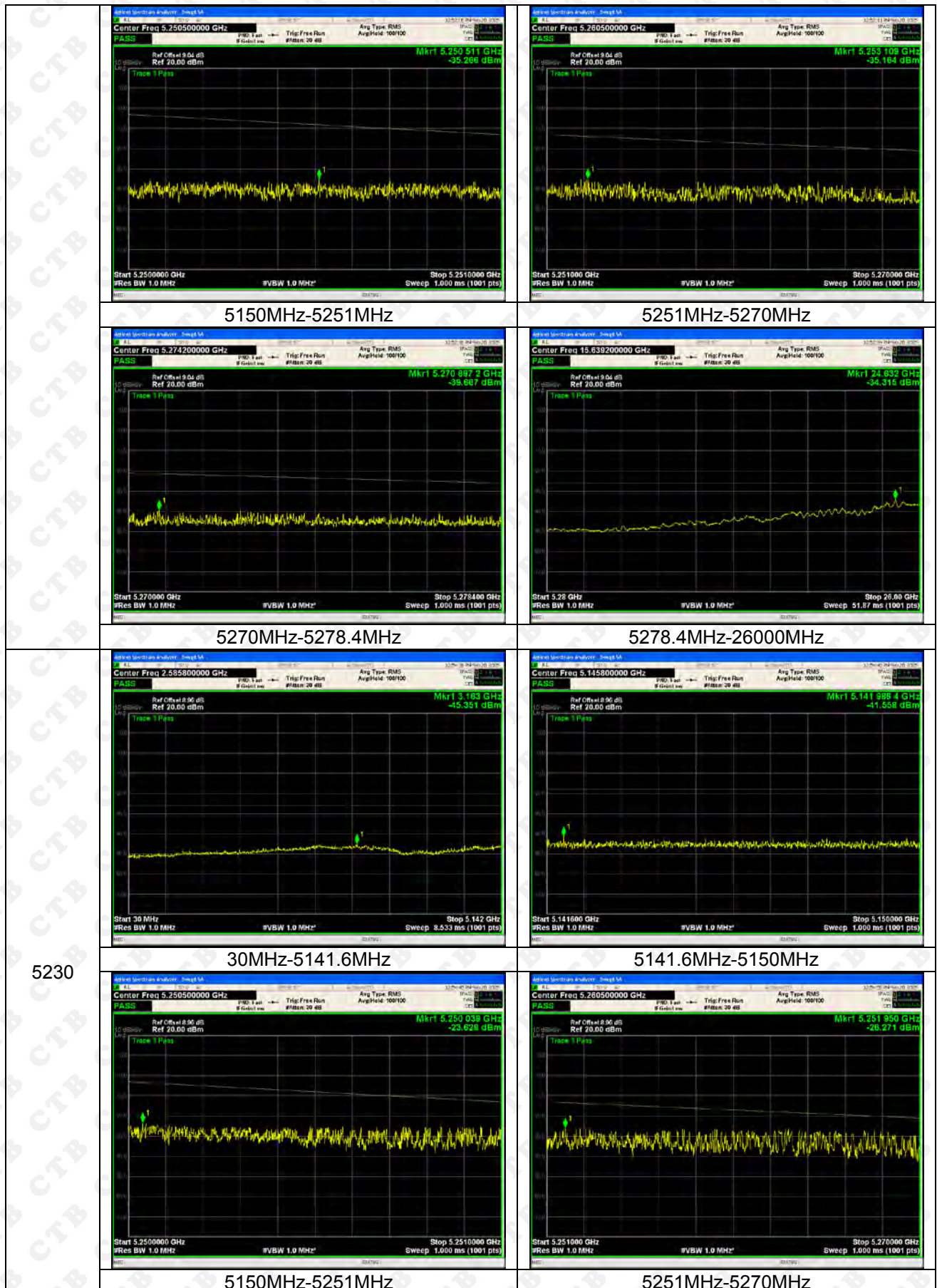




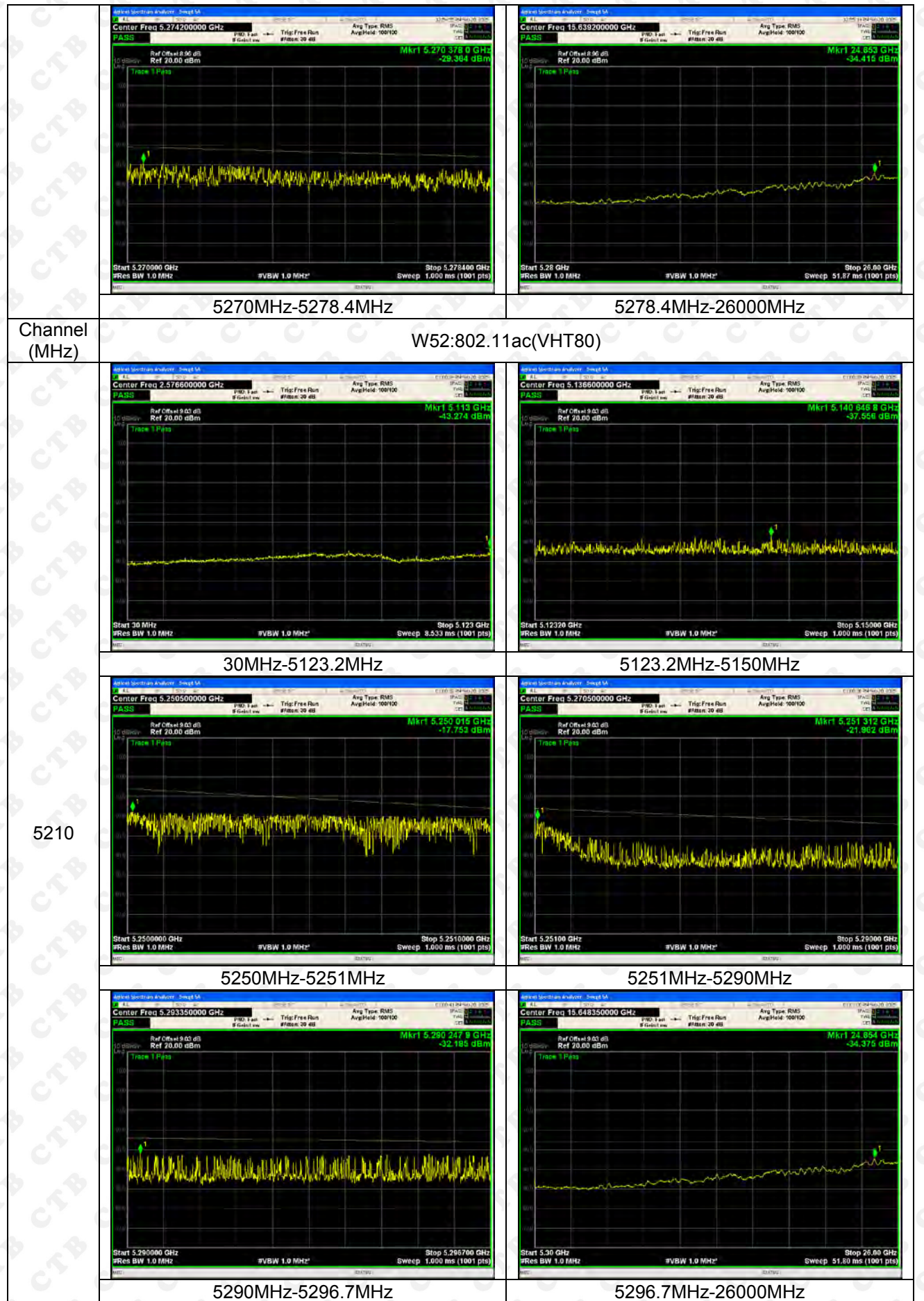


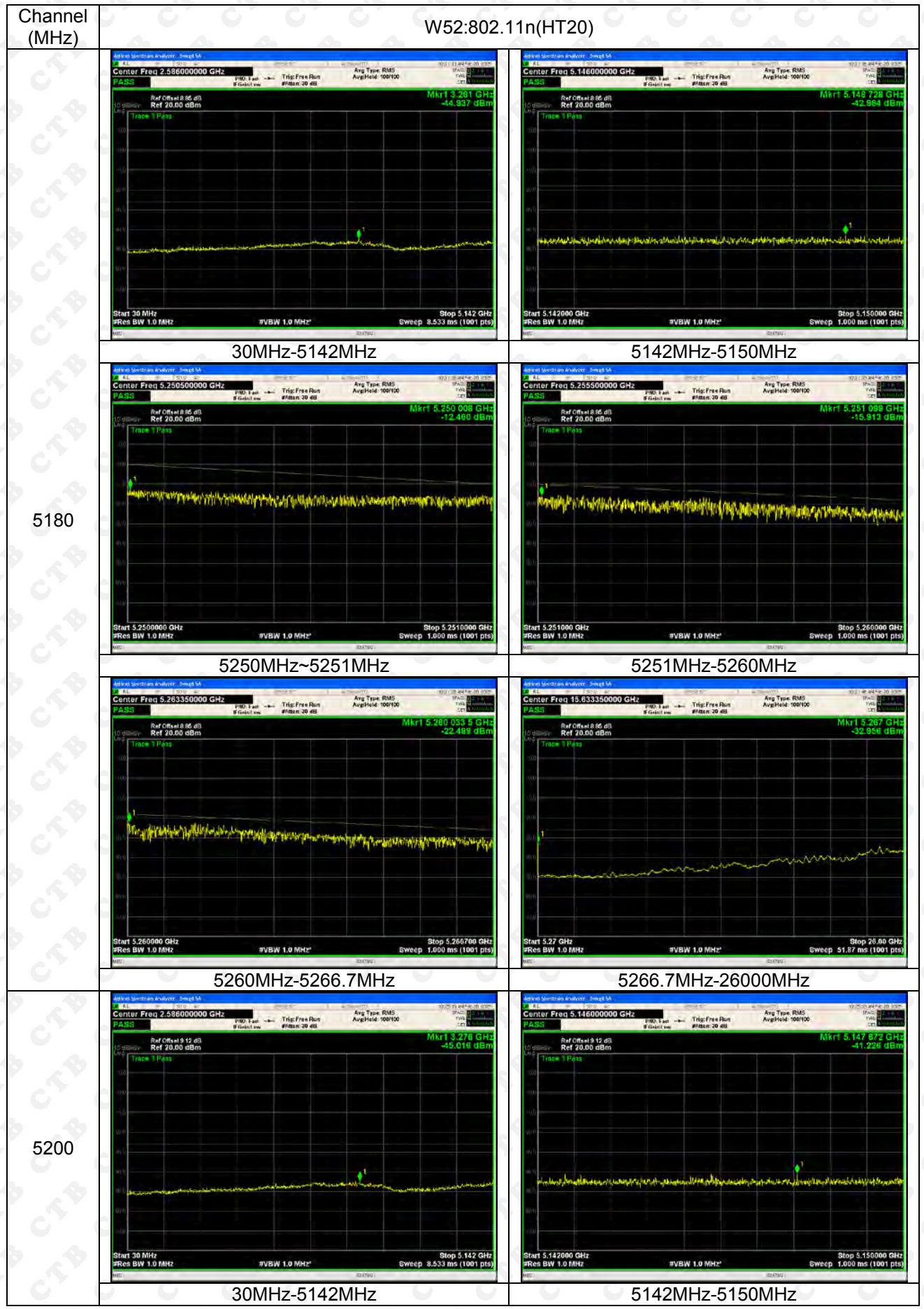




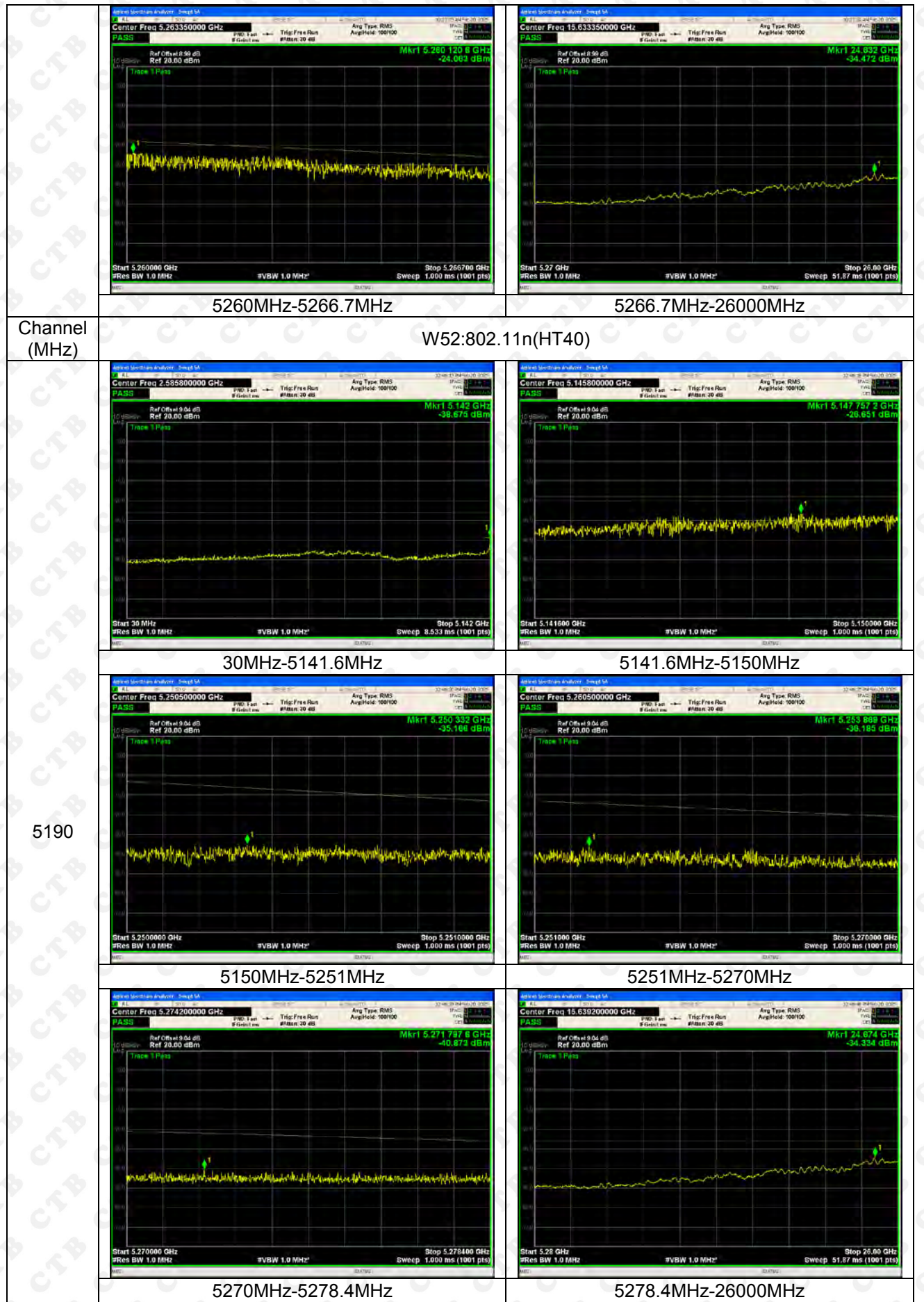


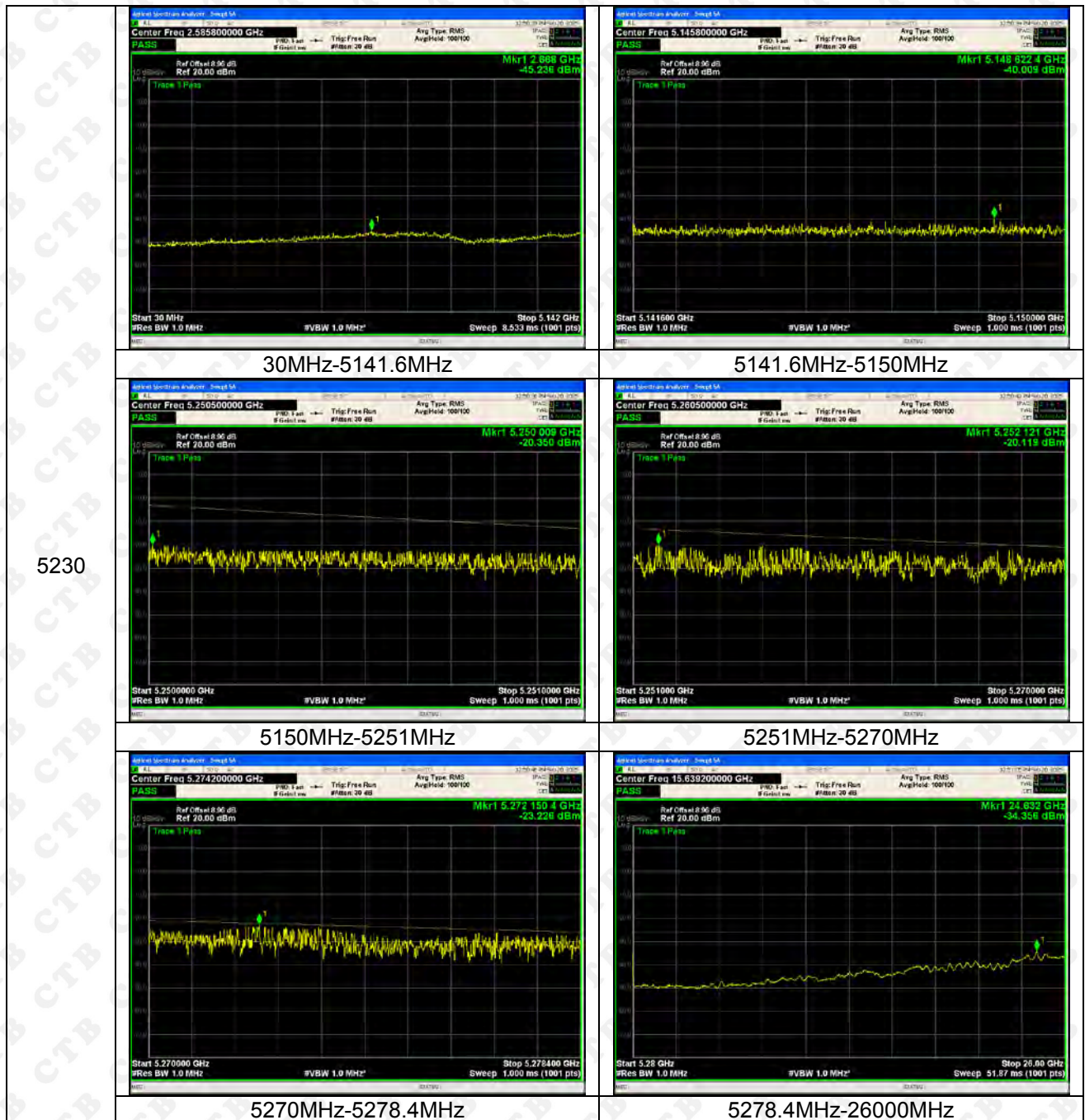
5230



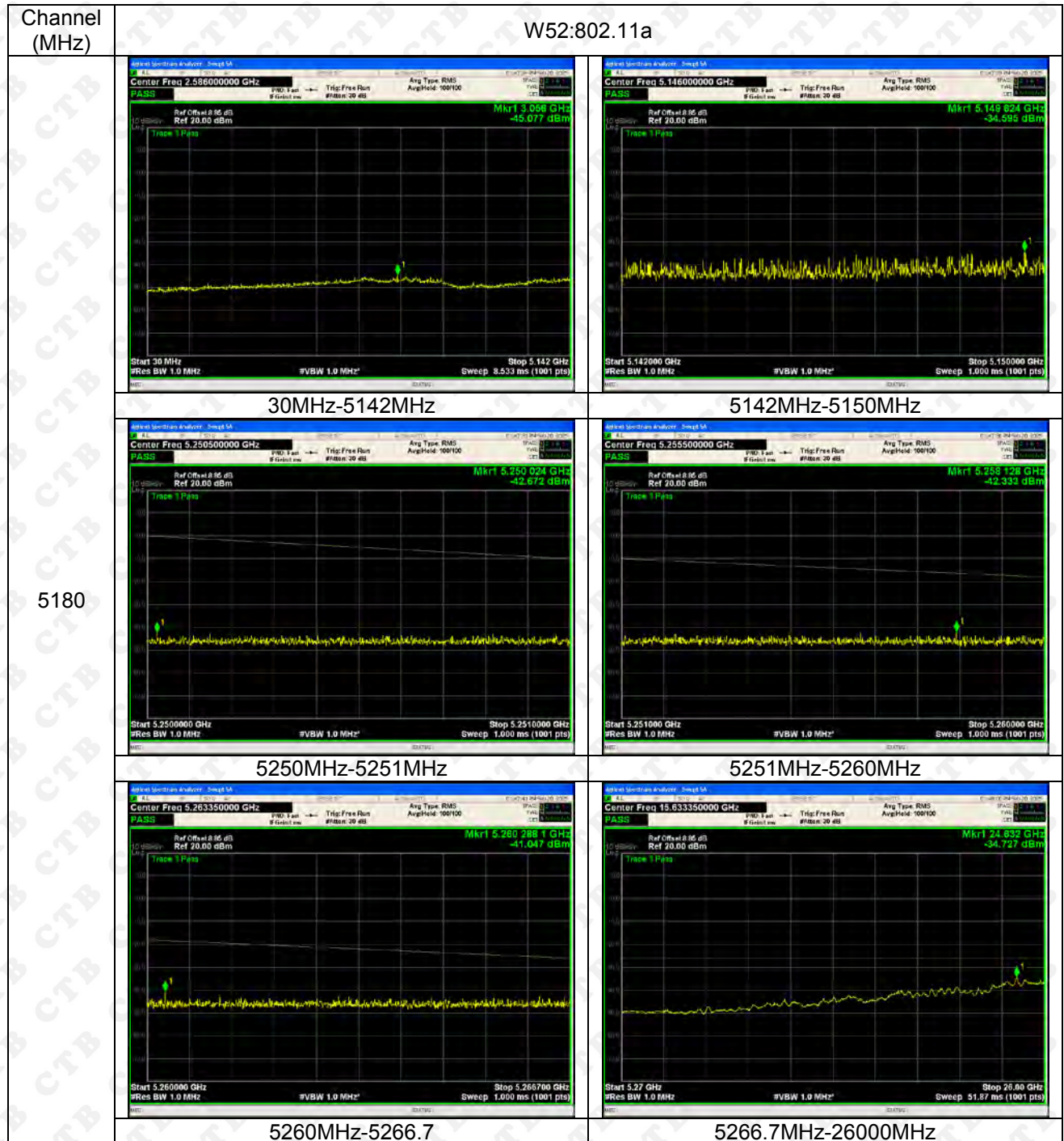




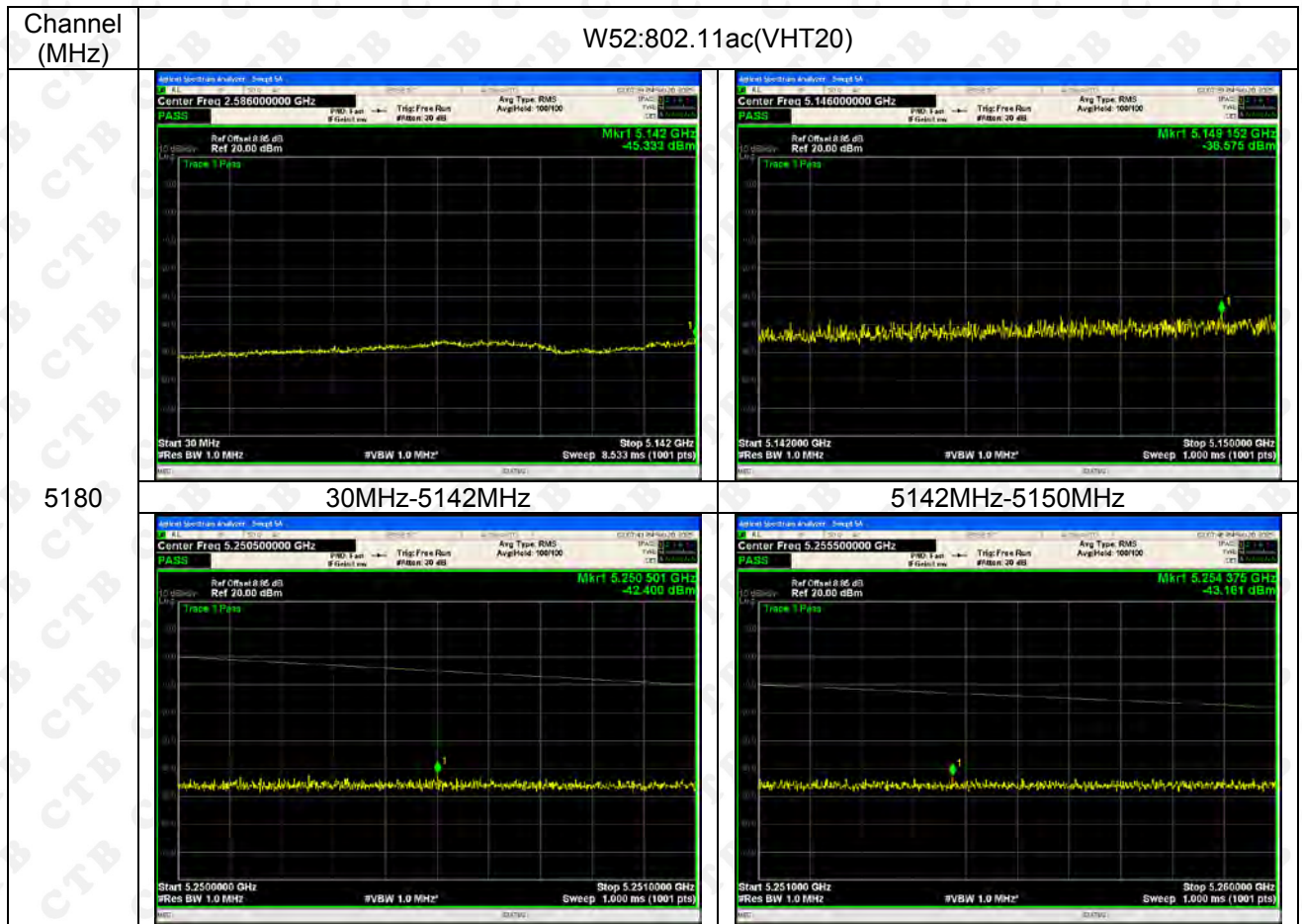
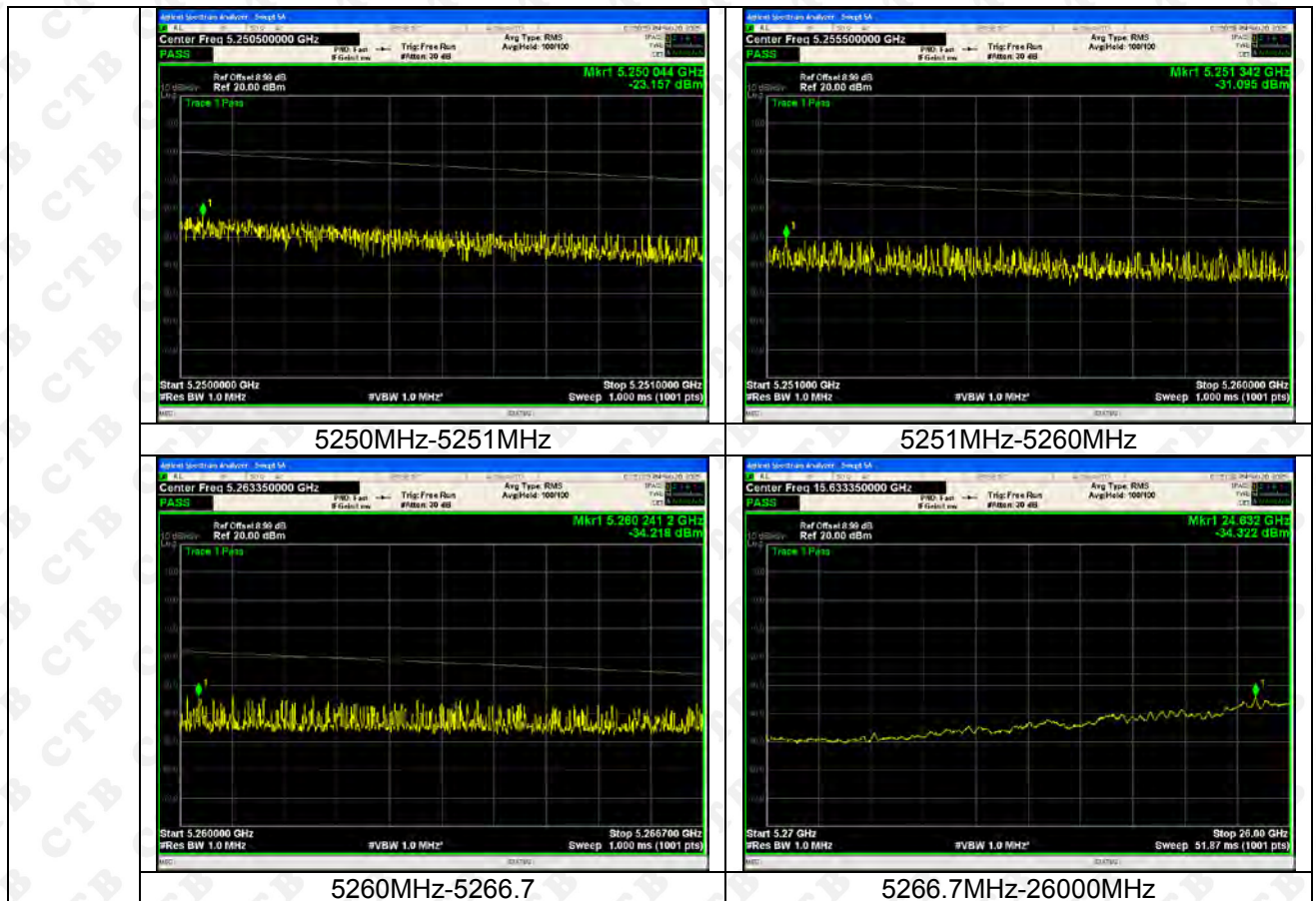


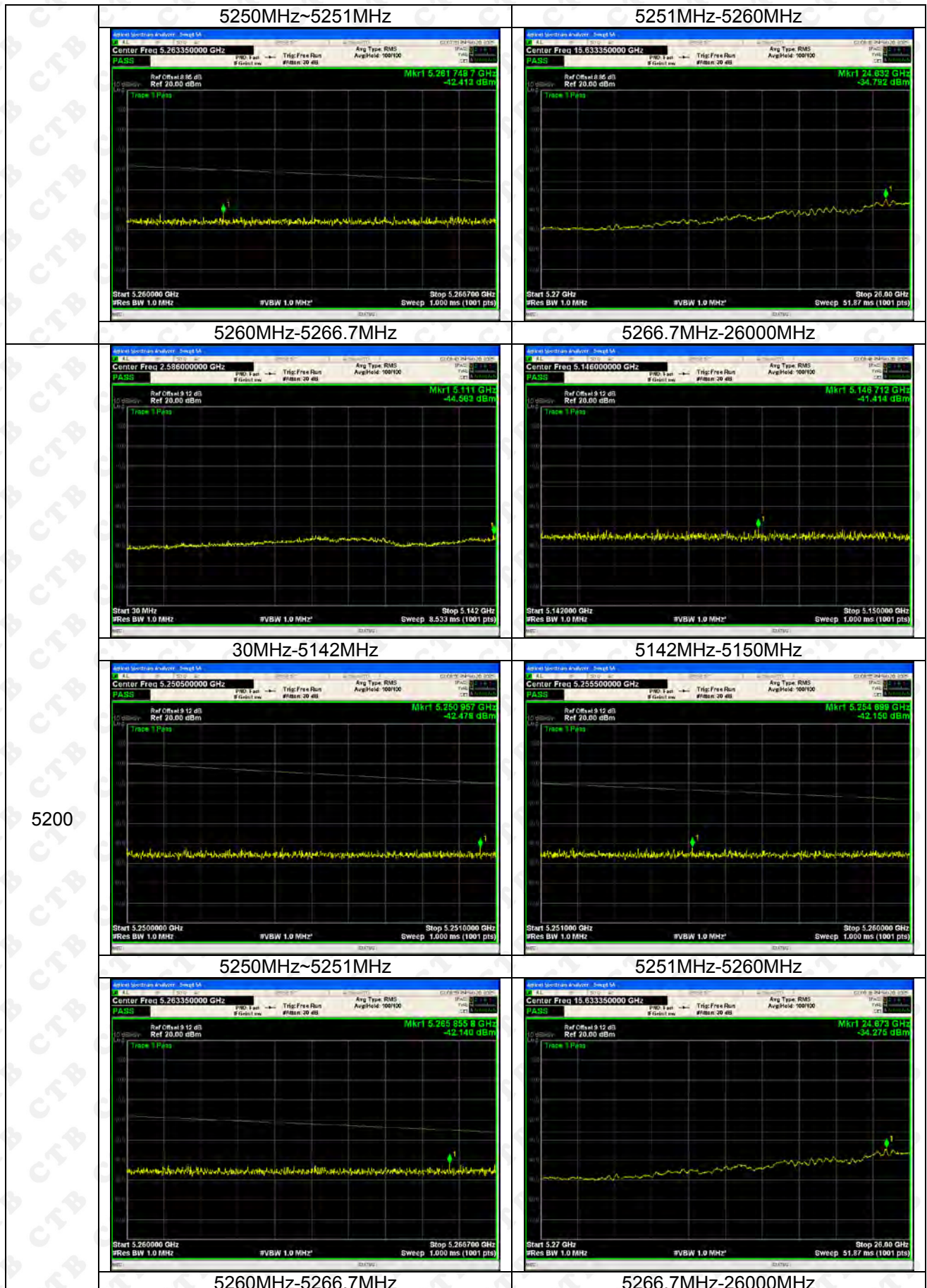


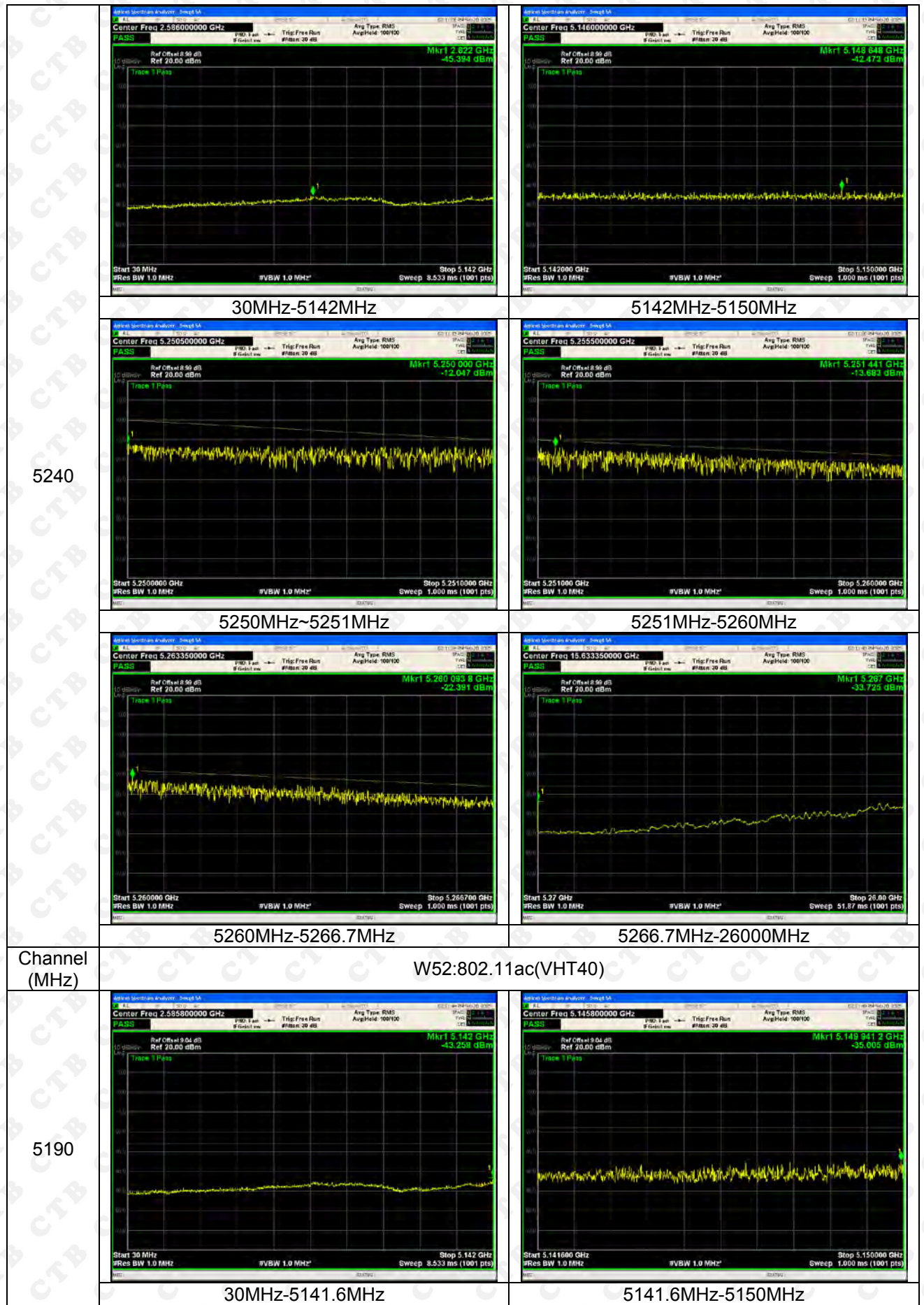
ANT 2

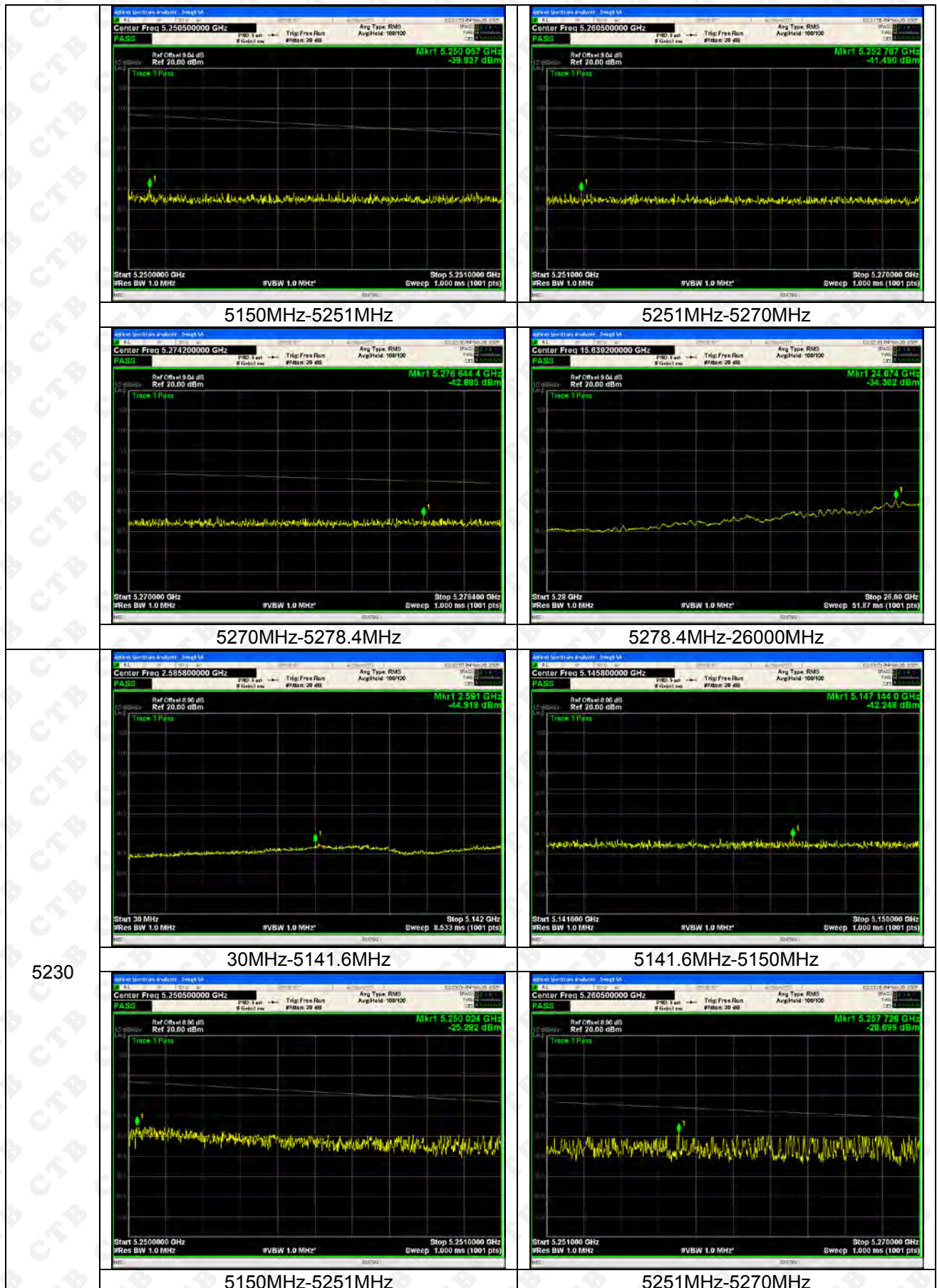




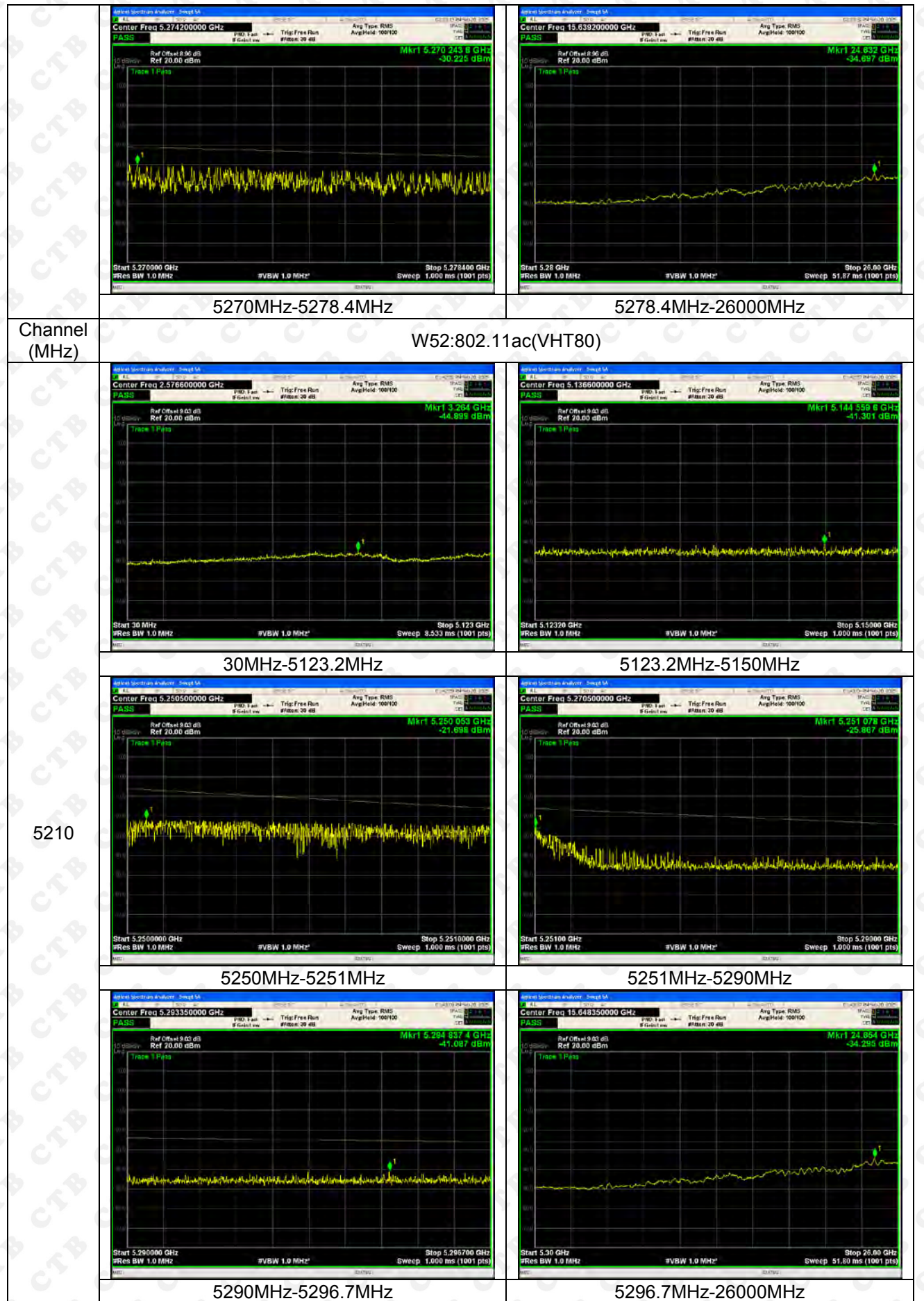


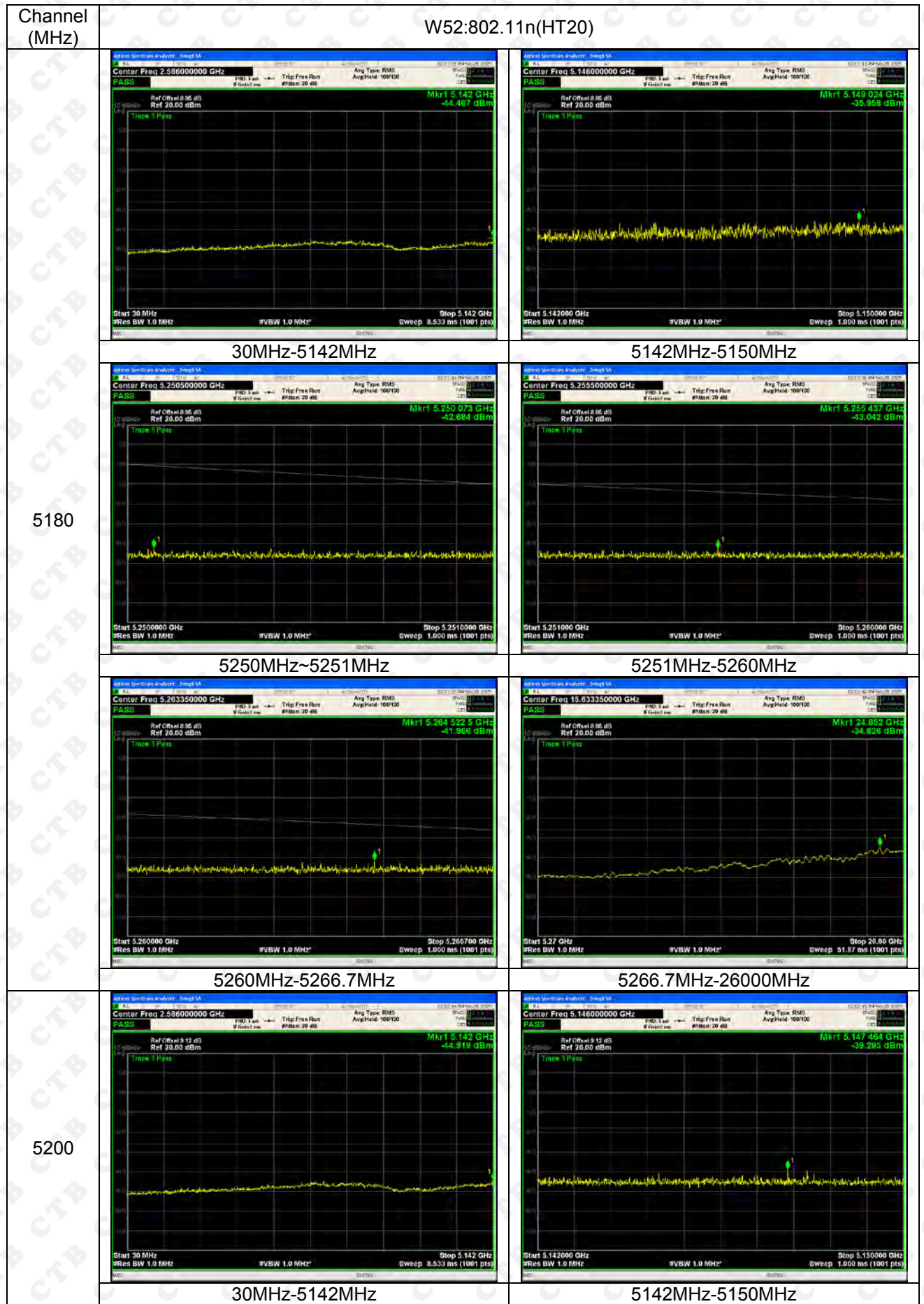






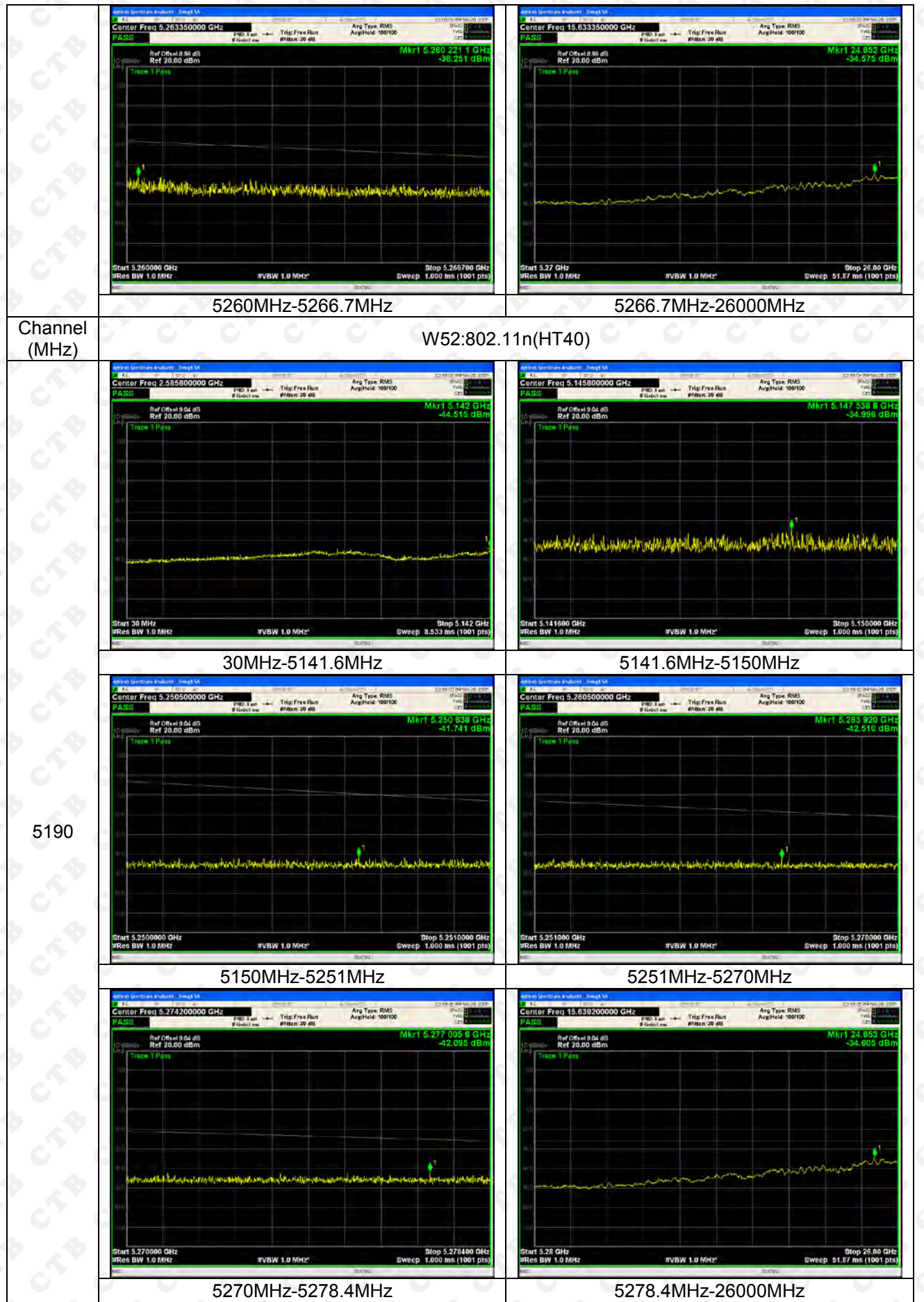
5230

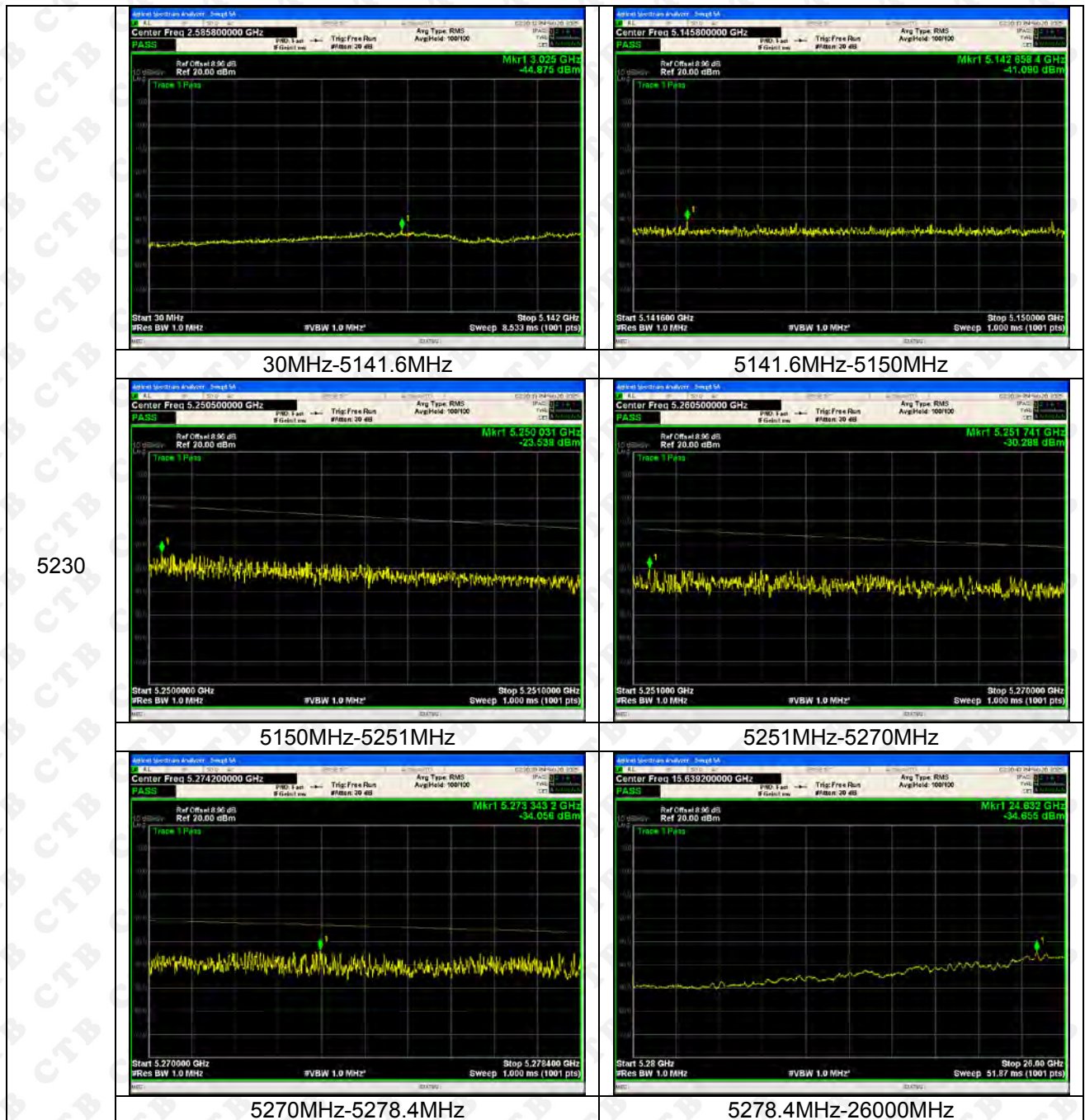






5240





11. Interference Prevention Function

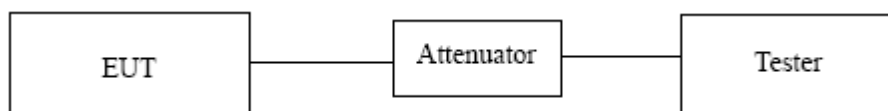
11.1 LIMIT

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

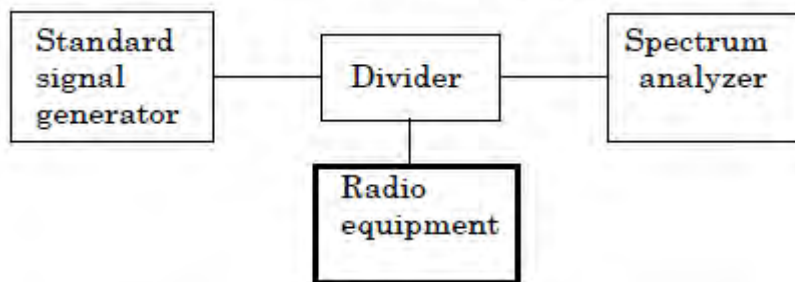
According to ORRE, art 49.20. The device shall have the carrier sensing function.

12.2 TEST PROCEDURE

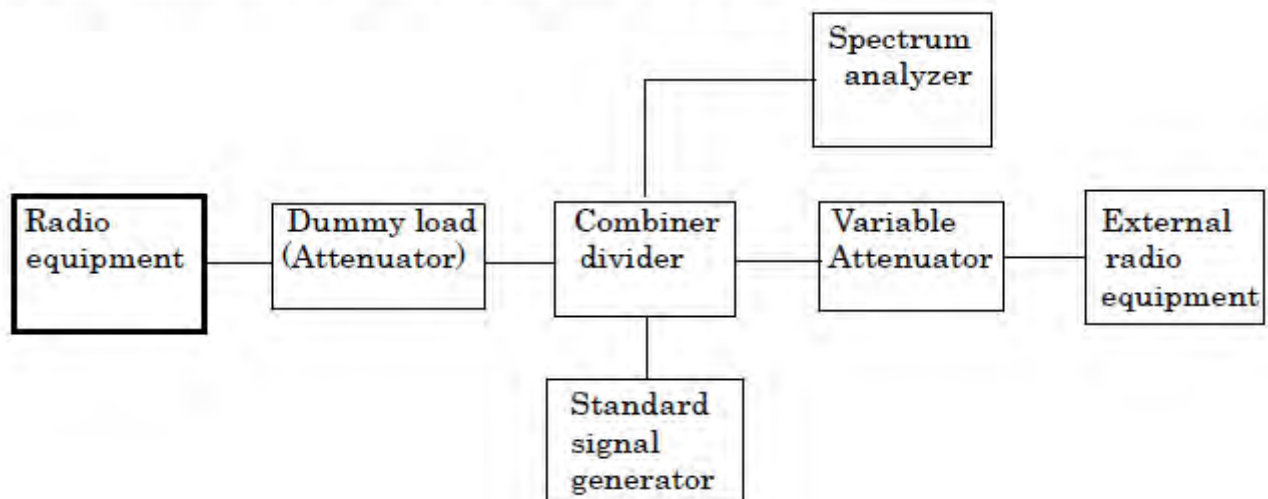
1. SG adjust the frequency as same as the EUT transmitted signal, unmodulation, power level 0dBm, Then turn off the RF signal
2. EUT have transmitted the maximum modulation signal and fixed channel
3. Setting of the SA following as RBW/VBW: 1/3MHz SPAN: 50MHz Sweep time: Auto continue PK
4. SG Signal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

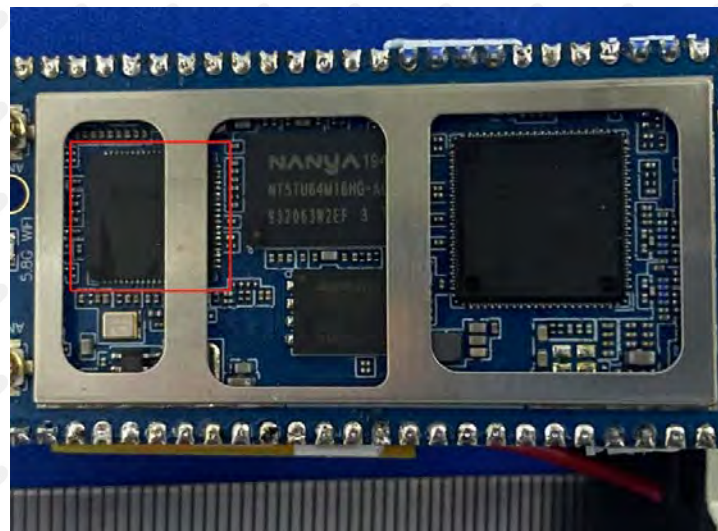
13.2 Confirmation method

☐	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.

The RF chip has a terminal distance to less than 1mm and has 7INN6 terminal.



14 Transmission Burst Length

14.1 LIMIT

8ms or less

14.2 TEST PROCEDURE

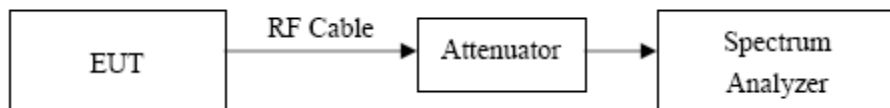
Enable EUT under transmission mode and connected it to the spectrum analyzer through antenna output port as the block diagram show in TEST CONFIGURATION

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

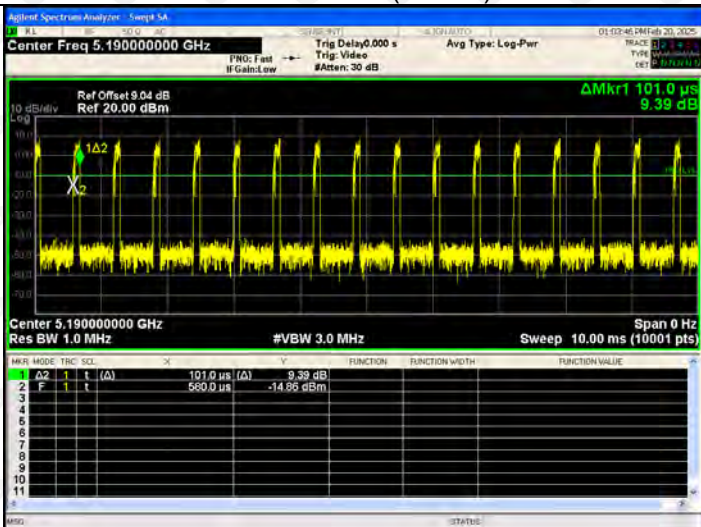
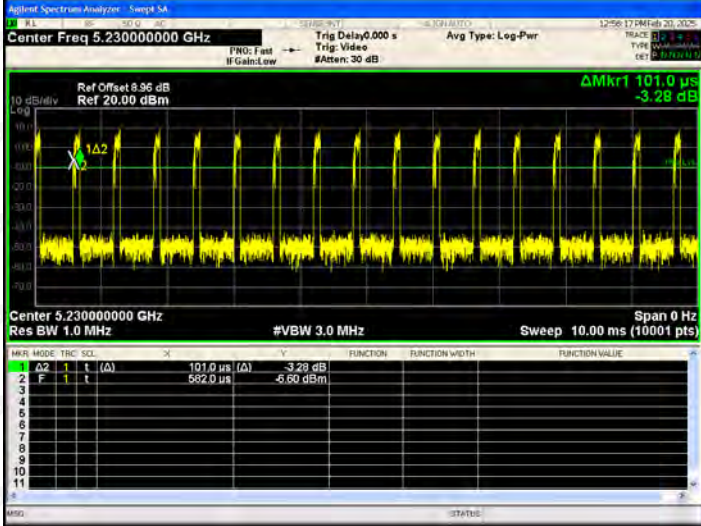
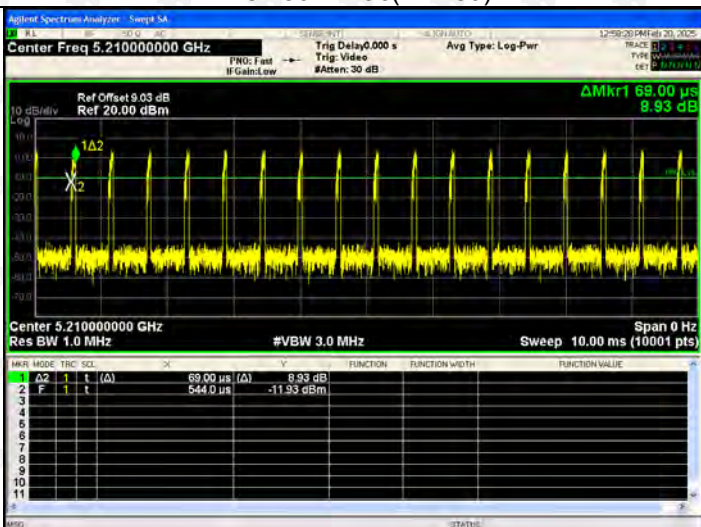
Normal Voltage			
Mode	Channel (MHz)	Read Level(ms)	Limit (ms)
802.11a	LCH	0.173	8ms or less
	MCH	0.173	
	HCH	0.173	
802.11ac(VHT20)	LCH	0.165	
	MCH	0.165	
	HCH	0.165	
802.11ac(VHT40)	LCH	0.101	
	MCH	/	
	HCH	0.101	
802.11ac(VHT80)	LCH	/	
	MCH	0.069	
	HCH	/	
802.11n(HT20)	LCH	0.161	
	MCH	0.161	
	HCH	0.161	
802.11n(HT40)	LCH	0.097	
	MCH	/	
	HCH	0.097	

W52 ANT 2

Normal Voltage			
Mode	Channel (MHz)	Read Level(ms)	Limit (ms)
802.11a	LCH	0.173	8ms or less
	MCH	0.173	
	HCH	0.173	
802.11ac(VHT20)	LCH	0.165	
	MCH	0.165	
	HCH	0.165	
802.11ac(VHT40)	LCH	0.101	
	MCH	/	
	HCH	0.101	
802.11ac(VHT80)	LCH	/	
	MCH	0.069	
	HCH	/	
802.11n(HT20)	LCH	0.160	
	MCH	0.161	
	HCH	0.161	
802.11n(HT40)	LCH	0.097	
	MCH	/	
	HCH	0.097	

Test graph
ANT 1

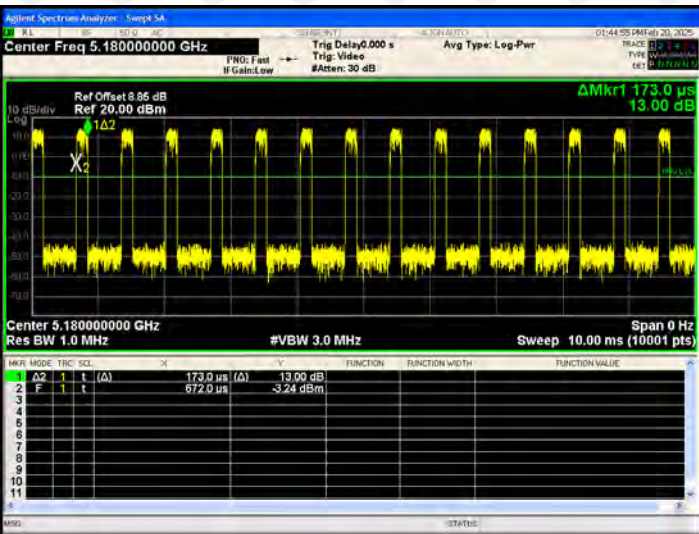
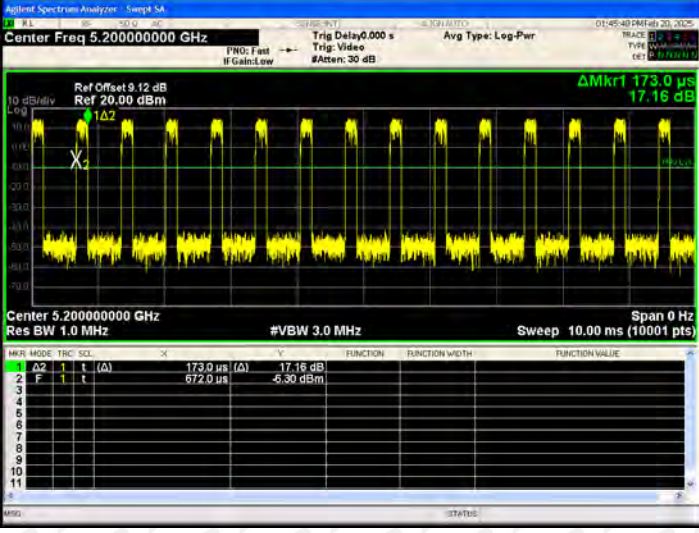
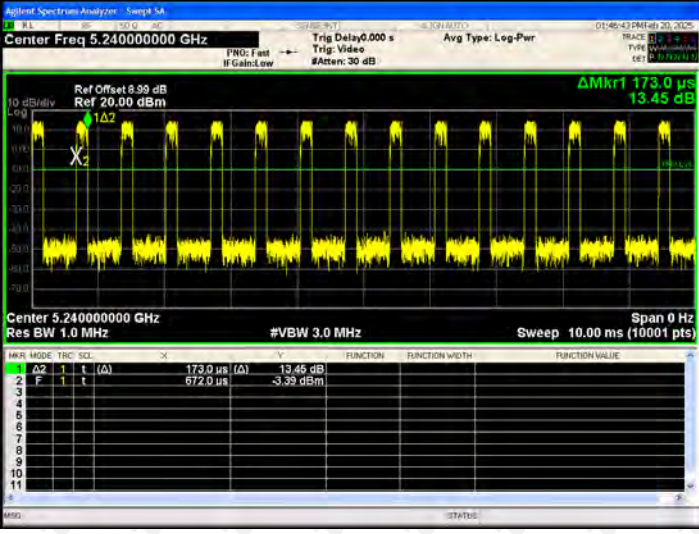


Channel(MHz)	W52:802.11ac(VHT40)																											
5190	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.190000000 GHz Ref Offset 9.04 dB Ref 20.00 dBm ΔMkr1 101.0 μs 9.39 dB Center 5.190000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>A2</td><td>1</td><td>t</td><td>(A)</td><td>101.0 μs</td><td>(A)</td><td>9.39 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>582.0 μs</td><td></td><td>-14.86 dBm</td><td></td></tr></table>	MNR	MODE	TRG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	A2	1	t	(A)	101.0 μs	(A)	9.39 dB		2	F	1	t		582.0 μs		-14.86 dBm	
MNR	MODE	TRG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	A2	1	t	(A)	101.0 μs	(A)	9.39 dB																					
2	F	1	t		582.0 μs		-14.86 dBm																					
5230	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.230000000 GHz Ref Offset 8.96 dB Ref 20.00 dBm ΔMkr1 101.0 μs -3.28 dB Center 5.230000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>A2</td><td>1</td><td>t</td><td>(A)</td><td>101.0 μs</td><td>(A)</td><td>-3.28 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>582.0 μs</td><td></td><td>-6.60 dBm</td><td></td></tr></table>	MNR	MODE	TRG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	A2	1	t	(A)	101.0 μs	(A)	-3.28 dB		2	F	1	t		582.0 μs		-6.60 dBm	
MNR	MODE	TRG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	A2	1	t	(A)	101.0 μs	(A)	-3.28 dB																					
2	F	1	t		582.0 μs		-6.60 dBm																					
Channel(MHz)	W52:802.11ac(VHT80)																											
5210	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.210000000 GHz Ref Offset 9.03 dB Ref 20.00 dBm ΔMkr1 69.00 μs 8.93 dB Center 5.210000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>A2</td><td>1</td><td>t</td><td>(A)</td><td>69.00 μs</td><td>(A)</td><td>8.93 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>544.0 μs</td><td></td><td>-11.93 dBm</td><td></td></tr></table>	MNR	MODE	TRG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	A2	1	t	(A)	69.00 μs	(A)	8.93 dB		2	F	1	t		544.0 μs		-11.93 dBm	
MNR	MODE	TRG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	A2	1	t	(A)	69.00 μs	(A)	8.93 dB																					
2	F	1	t		544.0 μs		-11.93 dBm																					

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ANT 2

Channel(MHz)	W52:802.11a
5180	
5200	
5240	

Channel(MHz)	W52:802.11ac(VHT20)																																																																																																												
5180	Agilent Spectrum Analyzer - Sweep 54 Center Freq 5.180000000 GHz Ref Offset 8.95 dB Ref 20.00 dBm Trig Delay 0.000 s Trig: Video #Atten: 30 dB Avg Type: Log-Pwr DMkr1 165.0 μs 4.62 dB 10 dB/div Log Center 5.180000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms Span 0 Hz (10001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SOL</th><th>X</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>165.0 μs</td><td>(A)</td><td>4.62 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>664.0 μs</td><td></td><td>-4.52 dBm</td><td></td></tr><tr><td>3</td><td></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><td></td></tr><tr><td>5</td><td></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><td></td></tr><tr><td>7</td><td></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><td></td></tr><tr><td>9</td><td></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><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	A2	1	t	(A)	165.0 μs	(A)	4.62 dB		2	F	1	t		664.0 μs		-4.52 dBm		3									4									5									6									7									8									9									10									11								
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5200	Agilent Spectrum Analyzer - Sweep 54 Center Freq 5.200000000 GHz Ref Offset 8.12 dB Ref 20.00 dBm Trig Delay 0.000 s Trig: Video #Atten: 30 dB Avg Type: Log-Pwr DMkr1 165.0 μs 0.14 dB 10 dB/div Log Center 5.200000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms Span 0 Hz (10001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SOL</th><th>X</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>165.0 μs</td><td>(A)</td><td>0.14 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>664.0 μs</td><td></td><td>-3.32 dBm</td><td></td></tr><tr><td>3</td><td></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><td></td></tr><tr><td>5</td><td></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><td></td></tr><tr><td>7</td><td></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><td></td></tr><tr><td>9</td><td></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><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	A2	1	t	(A)	165.0 μs	(A)	0.14 dB		2	F	1	t		664.0 μs		-3.32 dBm		3									4									5									6									7									8									9									10									11								
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5240	Agilent Spectrum Analyzer - Sweep 54 Center Freq 5.240000000 GHz Ref Offset 8.99 dB Ref 20.00 dBm Trig Delay 0.000 s Trig: Video #Atten: 30 dB Avg Type: Log-Pwr DMkr1 165.0 μs 10.00 dB 10 dB/div Log Center 5.240000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms Span 0 Hz (10001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SOL</th><th>X</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>165.0 μs</td><td>(A)</td><td>10.00 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>664.0 μs</td><td></td><td>-9.29 dBm</td><td></td></tr><tr><td>3</td><td></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><td></td></tr><tr><td>5</td><td></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><td></td></tr><tr><td>7</td><td></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><td></td></tr><tr><td>9</td><td></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><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	A2	1	t	(A)	165.0 μs	(A)	10.00 dB		2	F	1	t		664.0 μs		-9.29 dBm		3									4									5									6									7									8									9									10									11								
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Channel(MHz)	W52:802.11n(HT20)
5180	Agilent Spectrum Analyzer - Sweep 54 Center Freq 5.180000000 GHz Trig Delay 0.000 s Avg Type: Log-Pwr Ref Offset 8.95 dB Ref 20.00 dBm ΔMkr1 160.0 μs 8.99 dB Center 5.180000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms Span 0 Hz 160.0 μs (A) 8.99 dB 629.0 μs 1.61 dBm
5200	Agilent Spectrum Analyzer - Sweep 54 Center Freq 5.200000000 GHz Trig Delay 0.000 s Avg Type: Log-Pwr Ref Offset 8.12 dB Ref 20.00 dBm ΔMkr1 161.0 μs 17.46 dB Center 5.200000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms Span 0 Hz 161.0 μs (A) 17.46 dB 660.0 μs -5.75 dBm
5240	Agilent Spectrum Analyzer - Sweep 54 Center Freq 5.240000000 GHz Trig Delay 0.000 s Avg Type: Log-Pwr Ref Offset 8.99 dB Ref 20.00 dBm ΔMkr1 161.0 μs -10.55 dB Center 5.240000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms Span 0 Hz 161.0 μs (A) -10.55 dB 608.0 μs 1.76 dBm



15 Secondary Radiated Emitted Power

15.1 LIMIT

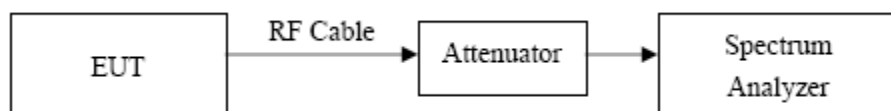
According to Item 19-3 of Article 2 Paragraph 1. The receiver spurious emissions shall not exceed the following limit:

- (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



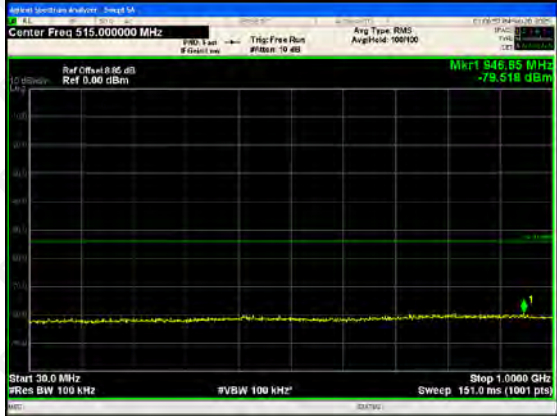
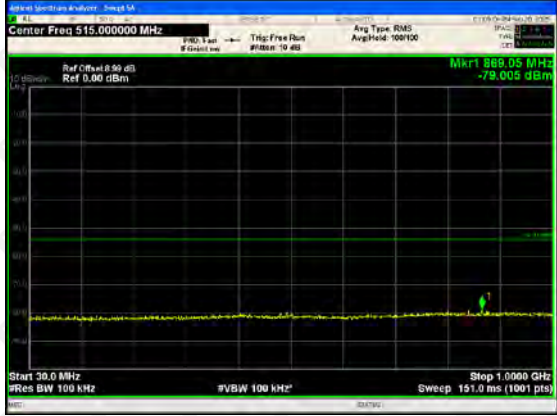
15.4 TEST RESULT
W52 ANT 1

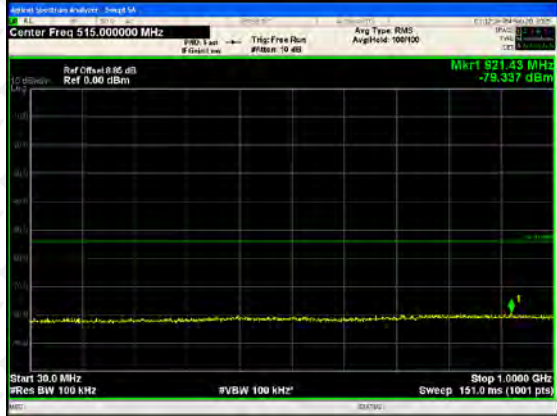
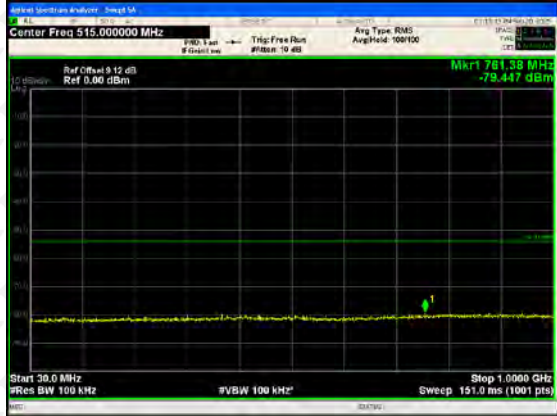
Normal Voltage						
Mode	Channel (MHz)	Frequency(MHz)	Mkr(MHz)	Test result(dBm)	Limit (dBm)	Result
802.11a	LCH	30~1000	946.65	-79.52	-54	Pass
		1000~26000	24675	-55	-47	Pass
	MCH	30~1000	891.36	-79.27	-54	Pass
		1000~26000	24650	-54.89	-47	Pass
	HCH	30~1000	869.05	-79.01	-54	Pass
		1000~26000	24625	-54.97	-47	Pass
802.11ac(VHT20)	LCH	30~1000	921.43	-79.34	-54	Pass
		1000~26000	24675	-55.12	-47	Pass
	MCH	30~1000	761.38	-79.45	-54	Pass
		1000~26000	24675	-54.58	-47	Pass
	HCH	30~1000	882.63	-79.13	-54	Pass
		1000~26000	24650	-54.96	-47	Pass
802.11ac(VHT40)	LCH	30~1000	907.85	-79.15	-54	Pass
		1000~26000	24675	-54.62	-47	Pass
	HCH	30~1000	914.64	-79.43	-54	Pass
		1000~26000	24625	-54.81	-47	Pass
802.11ac(VHT80)	MCH	30~1000	933.07	-79.49	-54	Pass
		1000~26000	24650	-54.68	-47	Pass
802.11n(HT20)	LCH	30~1000	760.41	-79.57	-54	Pass
		1000~26000	24675	-54.75	-47	Pass
	MCH	30~1000	836.07	-79.23	-54	Pass
		1000~26000	24625	-54.78	-47	Pass
	HCH	30~1000	910.76	-79.16	-54	Pass
		1000~26000	24650	-54.9	-47	Pass
802.11n(HT40)	LCH	30~1000	902.03	-79.2	-54	Pass
		1000~26000	24650	-54.96	-47	Pass
	HCH	30~1000	840.92	-79.16	-54	Pass
		1000~26000	24625	-54.97	-47	Pass

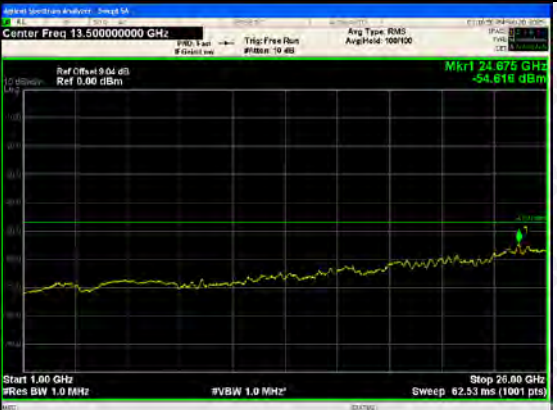
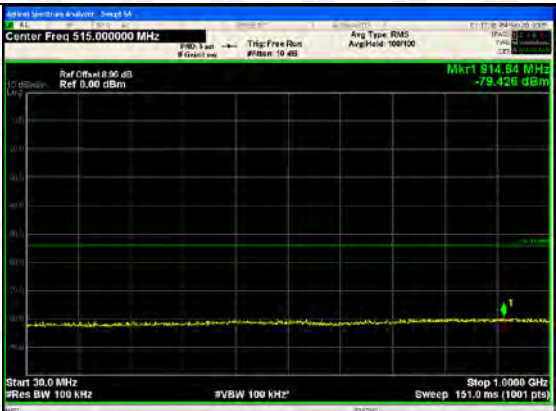
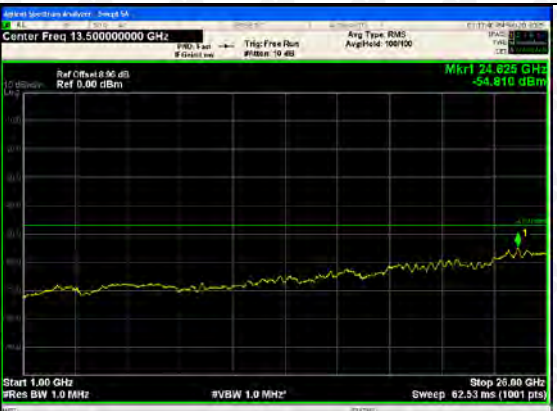
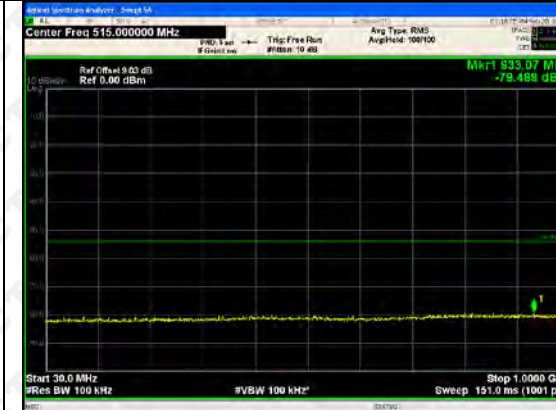
W52 ANT 2

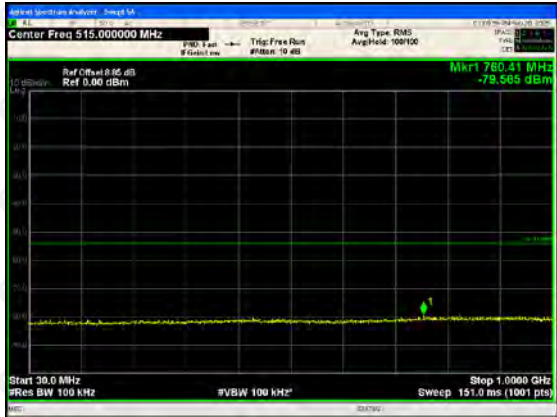
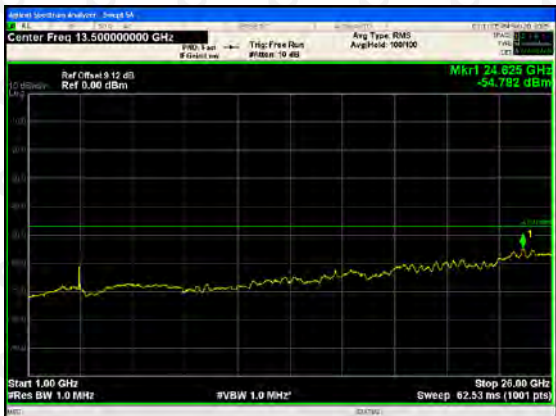
Normal Voltage						
Mode	Channel (MHz)	Frequency(MHz)	Mkr(MHz)	Test result(dBm)	Limit (dBm)	Result
802.11a	LCH	30~1000	904.94	-79.62	-54	Pass
		1000~26000	24675	-54.9	-47	Pass
	MCH	30~1000	818.61	-79.33	-54	Pass
		1000~26000	24675	-54.65	-47	Pass
	HCH	30~1000	889.42	-78.49	-54	Pass
		1000~26000	24675	-54.81	-47	Pass
802.11ac(VHT20)	LCH	30~1000	833.16	-79.71	-54	Pass
		1000~26000	24675	-54.8	-47	Pass
	MCH	30~1000	775.93	-79.07	-54	Pass
		1000~26000	24650	-54.81	-47	Pass
	HCH	30~1000	973.81	-79.36	-54	Pass
		1000~26000	24625	-55.01	-47	Pass
802.11ac(VHT40)	LCH	30~1000	798.24	-79.47	-54	Pass
		1000~26000	24625	-55	-47	Pass
	HCH	30~1000	893.3	-79.41	-54	Pass
		1000~26000	24675	-54.88	-47	Pass
802.11ac(VHT80)	MCH	30~1000	792.42	-79.36	-54	Pass
		1000~26000	24675	-54.74	-47	Pass
802.11n(HT20)	LCH	30~1000	822.49	-79.25	-54	Pass
		1000~26000	24675	-55.1	-47	Pass
	MCH	30~1000	835.1	-78.83	-54	Pass
		1000~26000	24650	-54.79	-47	Pass
	HCH	30~1000	941.8	-79.48	-54	Pass
		1000~26000	24650	-54.69	-47	Pass
802.11n(HT40)	LCH	30~1000	809.88	-78.84	-54	Pass
		1000~26000	24675	-54.72	-47	Pass
	HCH	30~1000	797.27	-79.51	-54	Pass
		1000~26000	24625	-54.99	-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

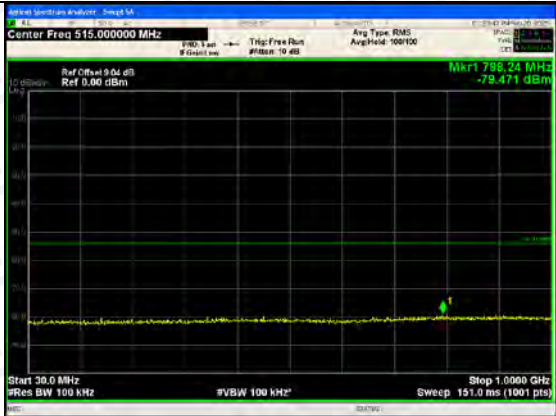
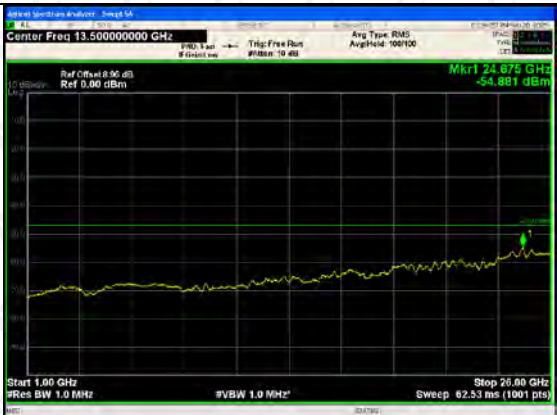
Channel (MHz)	W52:802.11 n(HT20)	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz

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

ANT 2

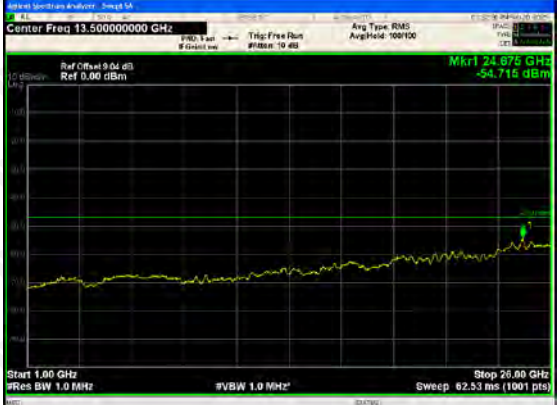
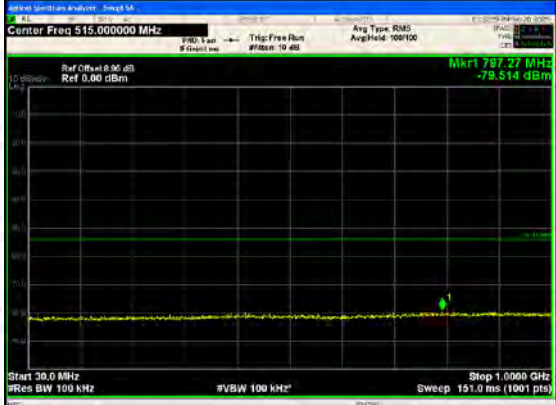
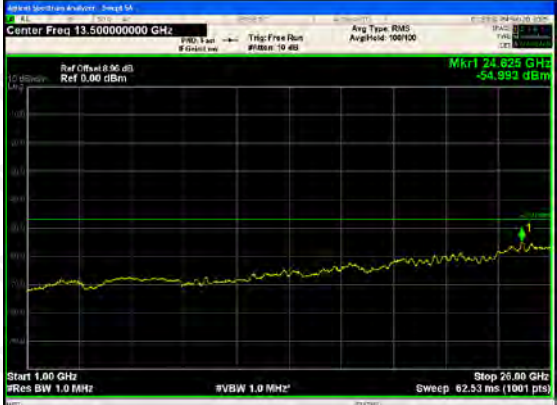
Channel (MHz)	W52:802.11a	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz

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)

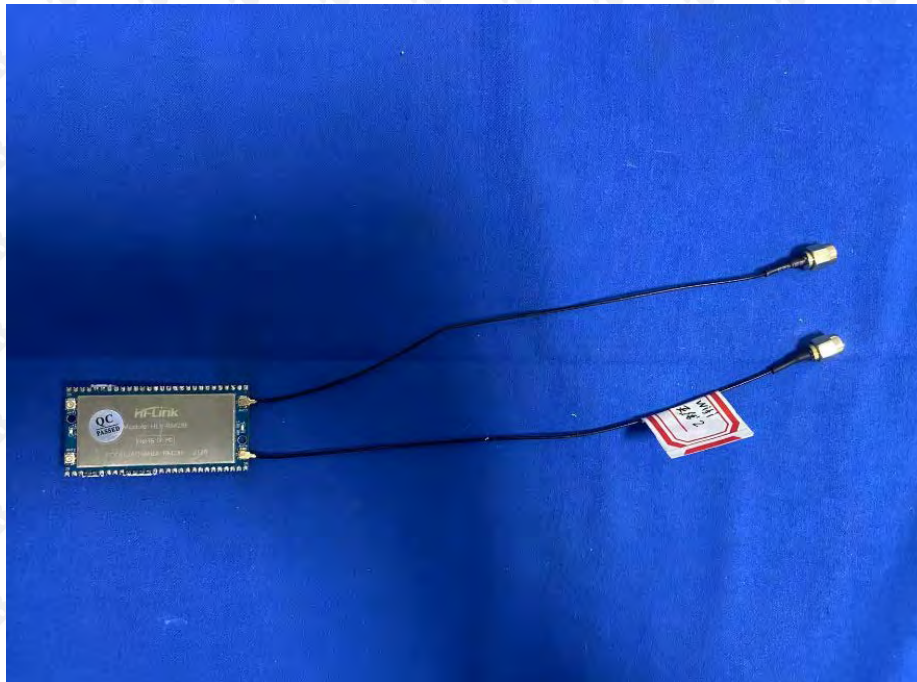
16.2 TEST PROCEDURE

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 *****