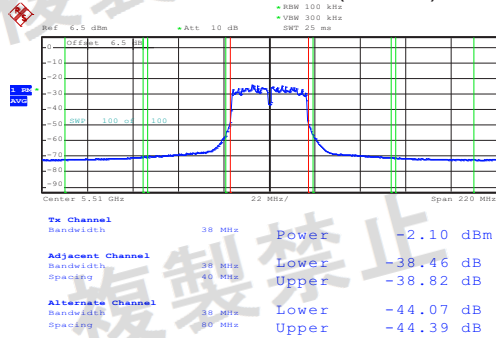
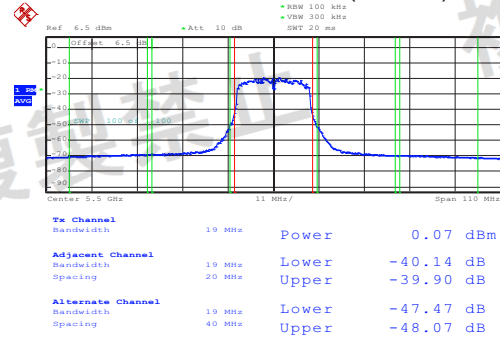


802.11n-HT40 (Band 3)



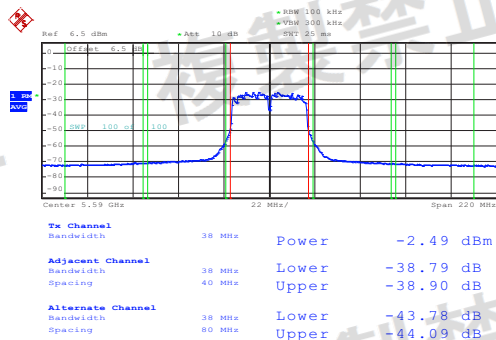
Date: 19.JUN.2019 09:19:40

802.11ac-HT20 (Band 3)



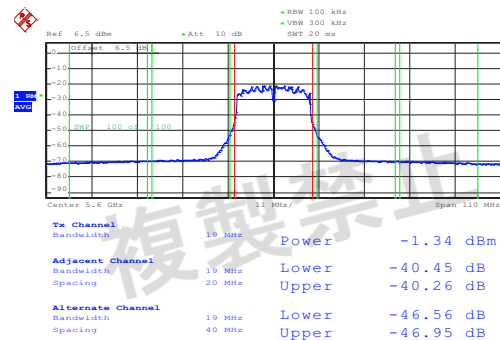
Date: 10.JUN.2019 15:21:06

Lowest channel



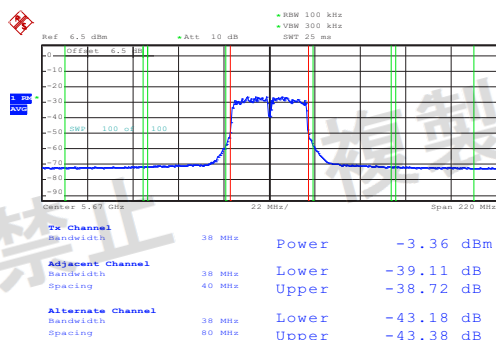
Date: 19.JUN.2019 09:20:08

Lowest channel



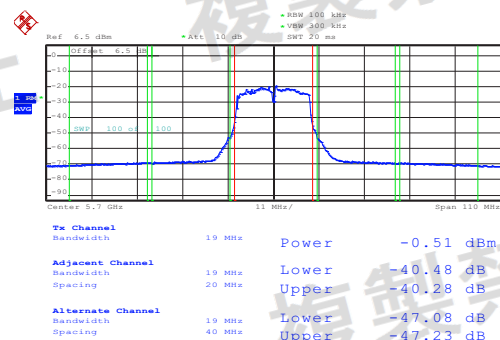
Date: 10.JUN.2019 15:21:30

Middle channel



Date: 19.JUN.2019 09:20:36

Middle channel

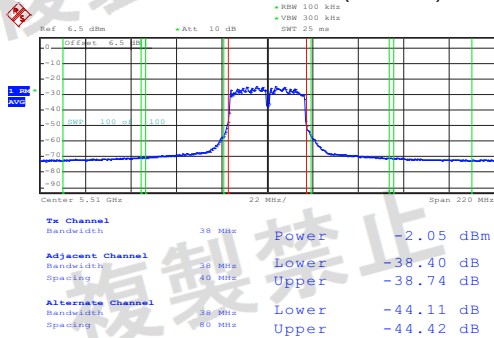


Date: 10.JUN.2019 15:21:51

Highest channel

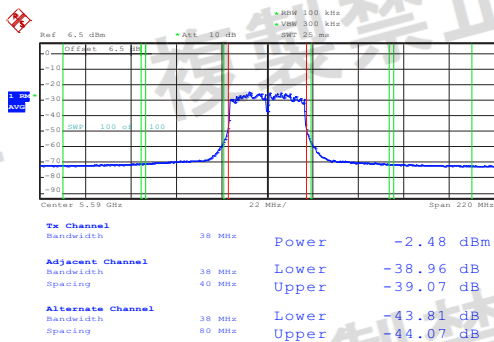
Highest channel

802.11ac-HT40 (Band 3)



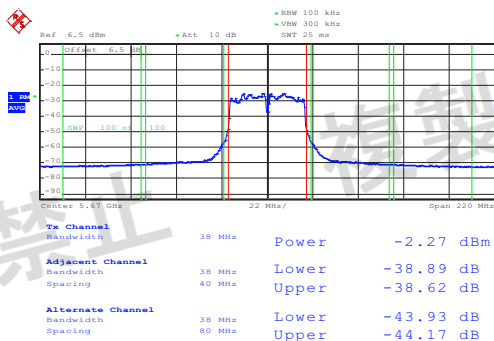
Date: 19.JUN.2019 09:22:03

Lowest channel



Date: 19.JUN.2019 09:21:31

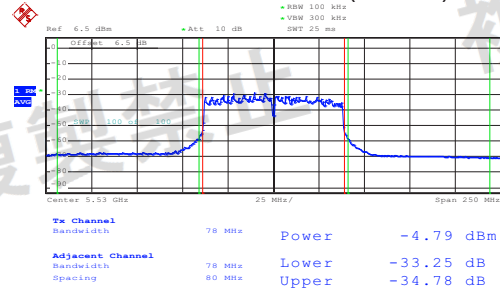
Middle channel



Date: 19.JUN.2019 09:21:02

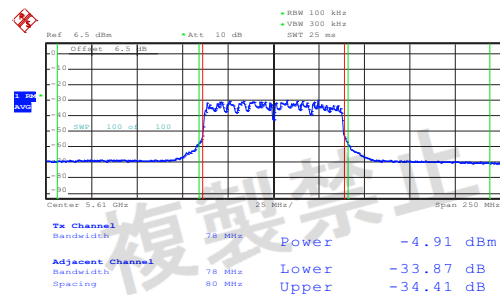
Highest channel

802.11ac-HT80 (Band 3)



Date: 19.JUN.2019 09:22:58

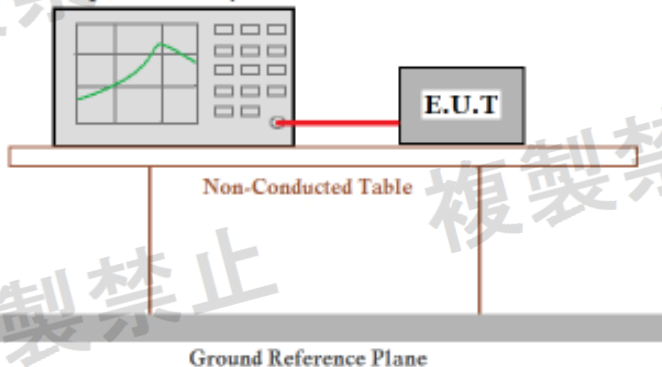
Lowest channel



Date: 19.JUN.2019 09:23:38

Highest channel

6.6 Tolerance of out-band leakage power (e.i.r.p value)

Test Requirement:	Article 2 paragraph 1 item (19-3)																																																																		
Test Method:	Appendix No.45 Notification No.88 of MIC, 2004 section 7																																																																		
Equipment setup:	RBW=1MHz, VBW=3MHz, Detector = Peak , Trace mode = Max hold																																																																		
Limit:	<table><thead><tr><th>Frequency Segments</th><th>Limit</th><th>Units</th></tr></thead><tbody><tr><td colspan="3">OBW ≤ 18MHz, 5150MHz ~ 5250MHz Band</td></tr><tr><td>5140MHz~5142MHz</td><td>≤ 2.5</td><td>μW/MHz</td></tr><tr><td>5142MHz~5150MHz</td><td>≤ 15</td><td>μW/MHz</td></tr><tr><td>5250MHz~5251MHz</td><td>$\leq 10^{1-(Df-9)}_{(Df: 9-10MHz)}$</td><td>mW/MHz</td></tr><tr><td>5251MHz~5260MHz</td><td>$\leq 10^{-1-(8/90)(Df-11)}_{(Df: 11-20MHz)}$</td><td>mW/MHz</td></tr><tr><td>5260MHz~5266.7MHz</td><td>$\leq 10^{-1.8-(6/50)(Df-20)}_{(Df: 20-26.7MHz)}$</td><td>mW/MHz</td></tr><tr><td>5266.7MHz~5360MHz</td><td>≤ 2.5</td><td>μW/MHz</td></tr><tr><td colspan="3">18MHz ≤ OBW ≤ 19MHz, 5150MHz ~ 5250MHz Band</td></tr><tr><td>5135MHz~5142MHz</td><td>≤ 2.5</td><td>μW/MHz</td></tr><tr><td>5142MHz~5150MHz</td><td>≤ 15</td><td>μW/MHz</td></tr><tr><td>5250MHz~5251MHz</td><td>$\leq 10^{1-(Df-9)}_{(Df: 9-10MHz)}$</td><td>mW/MHz</td></tr><tr><td>5251MHz~5260MHz</td><td>$\leq 10^{-1-(8/90)(Df-11)}_{(Df: 11-20MHz)}$</td><td>mW/MHz</td></tr><tr><td>5260MHz~5266.7MHz</td><td>$\leq 10^{-1.8-(6/50)(Df-20)}_{(Df: 20-26.7MHz)}$</td><td>mW/MHz</td></tr><tr><td>5266.7MHz~5365MHz</td><td>≤ 2.5</td><td>μW/MHz</td></tr><tr><td colspan="3">19MHz ≤ OBW ≤ 38MHz, 5150MHz ~ 5250MHz Band</td></tr><tr><td>5100MHz~5141.6MHz</td><td>≤ 2.5</td><td>μW/MHz</td></tr><tr><td>5141.6MHz~5150MHz</td><td>≤ 15</td><td>μW/MHz</td></tr><tr><td>5250MHz~5251MHz</td><td>$\leq 10^{-(Df-20)+\log(1/2)}_{(Df: 20-21MHz)}$</td><td>mW/MHz</td></tr><tr><td>5251MHz~5270MHz</td><td>$\leq 10^{-(8/190)(Df-21)-1+\log(1/2)}_{(Df: 21-40MHz)}$</td><td>mW/MHz</td></tr><tr><td>5270MHz~5278.4MHz</td><td>$\leq 10^{-(3/50)(Df-40)-1.8+\log(1/2)}_{(Df: 40-48.4MHz)}$</td><td>mW/MHz</td></tr><tr><td>5278.4MHz~5400MHz</td><td>≤ 2.5</td><td>μW/MHz</td></tr></tbody></table>	Frequency Segments	Limit	Units	OBW ≤ 18MHz, 5150MHz ~ 5250MHz Band			5140MHz~5142MHz	≤ 2.5	μW/MHz	5142MHz~5150MHz	≤ 15	μW/MHz	5250MHz~5251MHz	$\leq 10^{1-(Df-9)}_{(Df: 9-10MHz)}$	mW/MHz	5251MHz~5260MHz	$\leq 10^{-1-(8/90)(Df-11)}_{(Df: 11-20MHz)}$	mW/MHz	5260MHz~5266.7MHz	$\leq 10^{-1.8-(6/50)(Df-20)}_{(Df: 20-26.7MHz)}$	mW/MHz	5266.7MHz~5360MHz	≤ 2.5	μW/MHz	18MHz ≤ OBW ≤ 19MHz, 5150MHz ~ 5250MHz Band			5135MHz~5142MHz	≤ 2.5	μW/MHz	5142MHz~5150MHz	≤ 15	μW/MHz	5250MHz~5251MHz	$\leq 10^{1-(Df-9)}_{(Df: 9-10MHz)}$	mW/MHz	5251MHz~5260MHz	$\leq 10^{-1-(8/90)(Df-11)}_{(Df: 11-20MHz)}$	mW/MHz	5260MHz~5266.7MHz	$\leq 10^{-1.8-(6/50)(Df-20)}_{(Df: 20-26.7MHz)}$	mW/MHz	5266.7MHz~5365MHz	≤ 2.5	μW/MHz	19MHz ≤ OBW ≤ 38MHz, 5150MHz ~ 5250MHz Band			5100MHz~5141.6MHz	≤ 2.5	μW/MHz	5141.6MHz~5150MHz	≤ 15	μW/MHz	5250MHz~5251MHz	$\leq 10^{-(Df-20)+\log(1/2)}_{(Df: 20-21MHz)}$	mW/MHz	5251MHz~5270MHz	$\leq 10^{-(8/190)(Df-21)-1+\log(1/2)}_{(Df: 21-40MHz)}$	mW/MHz	5270MHz~5278.4MHz	$\leq 10^{-(3/50)(Df-40)-1.8+\log(1/2)}_{(Df: 40-48.4MHz)}$	mW/MHz	5278.4MHz~5400MHz	≤ 2.5	μW/MHz
Frequency Segments	Limit	Units																																																																	
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5251MHz~5270MHz	$\leq 10^{-(8/190)(Df-21)-1+\log(1/2)}_{(Df: 21-40MHz)}$	mW/MHz																																																																	
5270MHz~5278.4MHz	$\leq 10^{-(3/50)(Df-40)-1.8+\log(1/2)}_{(Df: 40-48.4MHz)}$	mW/MHz																																																																	
5278.4MHz~5400MHz	≤ 2.5	μW/MHz																																																																	
Test setup:	<p>Spectrum Analyzer</p>  <p>Non-Conducted Table</p> <p>Ground Reference Plane</p>																																																																		
Test procedure	<ol style="list-style-type: none">1. EUT have transmitted the maximum modulation signal and fixed channelize;2. Setting of SA is following as: RBW:1MHz / VBW:3MHz/ Sweep time: Auto / Sweep Mode: Single / Sweep Count: 100/Detect mode: RMS / Trace mode: Max hold;3. Using the Spurious Emissions function of SA, setting the limit line as the limit table;4. When the trace completed, compared with limits, and saved the plot;5. Repeat above steps for applicable test frequencies, channel bandwidths.																																																																		
Test Instruments:	Refer to section 5.7 for details																																																																		
Test Uncertainty:	± 0.96 dB																																																																		
Test results:	Pass																																																																		

Measurement Data:

Band 1

Frequency Segments	E.I.R.P level			Limit	Unit	Result
	Low	Middle	High			
802.11a (OBW ≤ 18MHz)						
5140MHz~5142MHz	-48.41	-51.58	-51.05	-26	dBm/MHz	Pass
5142MHz~5150MHz	-46.54	-51.21	-51.70	-18	dBm/MHz	Pass
5250MHz~5251MHz	-53.27	-52.68	-34.17	0~-10	dBm/MHz	Pass
5251MHz~5260MHz	-52.73	-53.36	-34.70	-10~-18	dBm/MHz	Pass
5260MHz~5266.7MHz	-53.07	-53.22	-47.14	-18~-26	dBm/MHz	Pass
5266.7MHz~5360MHz	-52.70	-53.01	-49.11	-26	dBm/MHz	Pass
802.11n-HT20 (OBW ≤ 18MHz)						
5140MHz~5142MHz	-49.26	-51.45	-52.05	-26	dBm/MHz	Pass
5142MHz~5150MHz	-47.16	-51.29	-52.01	-18	dBm/MHz	Pass
5250MHz~5251MHz	-53.27	-52.68	-34.68	0~-10	dBm/MHz	Pass
5251MHz~5260MHz	-52.84	-53.09	-35.46	-10~-18	dBm/MHz	Pass
5260MHz~5266.7MHz	-52.99	-52.86	-48.95	-18~-26	dBm/MHz	Pass
5266.7MHz~5360MHz	-52.93	-52.72	-49.53	-26	dBm/MHz	Pass
802.11n-HT40 (19 ≤ OBW ≤ 38MHz)						
5100MHz~5141.6MHz	-49.25	/	-52.55	-26	dBm/MHz	Pass
5141.6MHz~5150MHz	-46.52	/	-52.55	-18	dBm/MHz	Pass
5250MHz~5251MHz	-51.91	/	-52.55	-3~-13	dBm/MHz	Pass
5251MHz~5270MHz	-52.63	/	-52.55	-13~-21	dBm/MHz	Pass
5270MHz~5278.4MHz	-53.01	/	-52.55	-21~-26	dBm/MHz	Pass
5278.4MHz~5400MHz	-52.69	/	-52.55	-26	dBm/MHz	Pass
802.11ac-HT20 (38≤OBW ≤ 78MHz)						
5140MHz~5142MHz	-49.63	-51.72	-51.98	-26	dBm/MHz	Pass
5142MHz~5150MHz	-48.33	-51.17	-51.57	-18	dBm/MHz	Pass
5250MHz~5251MHz	-53.19	-52.62	-34.40	0~-10	dBm/MHz	Pass
5251MHz~5260MHz	-53.19	-52.86	-35.36	-10~-18	dBm/MHz	Pass
5260MHz~5266.7MHz	-53.16	57.59	-48.71	-18~-26	dBm/MHz	Pass
5266.7MHz~5360MHz	-52.60	-52.71	-50.14	-26	dBm/MHz	Pass
802.11ac-HT40 (38≤OBW ≤ 78MHz)						
5100MHz~5141.6MHz	-49.36	/	-52.59	-26	dBm/MHz	Pass
5141.6MHz~5150MHz	-49.36	/	-51.82	-18	dBm/MHz	Pass
5250MHz~5251MHz	-49.36	/	-36.00	-3~-13	dBm/MHz	Pass
5251MHz~5270MHz	-49.36	/	-37.17	-13~-21	dBm/MHz	Pass
5270MHz~5278.4MHz	-49.36	/	-49.75	-21~-26	dBm/MHz	Pass
5278.4MHz~5400MHz	-49.36	/	-51.18	-26	dBm/MHz	Pass
802.11ac-HT80 (38≤OBW ≤ 78MHz)						
5020MHz~5123.2MHz	/	-46.33	/	-26	dBm/MHz	Pass
5123.2MHz~5150MHz	/	-45.28	/	-18	dBm/MHz	Pass
5250MHz~5251MHz	/	-37.59	/	-6~-16	dBm/MHz	Pass
5251MHz~5290MHz	/	-37.69	/	-16~-24	dBm/MHz	Pass
5290MHz~5296.7MHz	/	-50.24	/	-24~-26	dBm/MHz	Pass
5296.7MHz~5480MHz	/	-50.61	/	-26	dBm/MHz	Pass

Band 2

Frequency Segments	E.I.R.P level			Limit	Unit	Result
	Low	Middle	High			
802.11a (OBW ≤ 18MHz)						
5140MHz~5233.3MHz	-47.47	-52.57	-52.65	-26	dBm/MHz	Pass
5233.3MHz~5240MHz	-47.28	-53.25	-53.73	-26~-18	dBm/MHz	Pass
5240MHz~5249MHz	-34.16	-53.01	-53.72	-18~-10	dBm/MHz	Pass
5249MHz~5250MHz	-34.91	-52.77	-52.96	-10~0	dBm/MHz	Pass
5350MHz~5360MHz	-53.59	-53.44	-48.43	-26	dBm/MHz	Pass
802.11n-HT20 (OBW ≤ 18MHz)						
5140MHz~5233.3MHz	-50.35	-52.72	-52.84	-26	dBm/MHz	Pass
5233.3MHz~5240MHz	-48.87	-53.43	-53.60	-26~-18	dBm/MHz	Pass
5240MHz~5249MHz	-35.20	-53.45	-52.94	-18~-10	dBm/MHz	Pass
5249MHz~5250MHz	-34.38	-53.03	-53.76	-10~0	dBm/MHz	Pass
5350MHz~5360MHz	-54.01	-53.37	-49.77	-26	dBm/MHz	Pass
802.11n-HT40 (19 ≤ OBW ≤38MHz)						
5100MHz~5210MHz	-52.77	/	-53.73	-26	dBm/MHz	Pass
5210MHz~5221.6MHz	-50.01	/	-52.54	-26	dBm/MHz	Pass
5221.6MHz~5230MHz	-49.29	/	-53.13	-26~-21	dBm/MHz	Pass
5230MHz~5249MHz	-37.72	/	-52.65	-21~-13	dBm/MHz	Pass
5249MHz~5250MHz	-37.55	/	-52.4	-13~-3	dBm/MHz	Pass
5350MHz~5358MHz	-52.85	/	-47.86	-18	dBm/MHz	Pass
5358.4MHz~5400MHz	-53.75	/	-50.40	-26	dBm/MHz	Pass
802.11ac-HT20 (OBW ≤ 18MHz)						
5140MHz~5233.3MHz	-50.16	-52.77	-52.83	-26	dBm/MHz	Pass
5233.3MHz~5240MHz	-49.43	-53.60	-53.86	-26~-18	dBm/MHz	Pass
5240MHz~5249MHz	-35.51	-53.18	-52.90	-18~-10	dBm/MHz	Pass
5249MHz~5250MHz	-33.65	-52.31	-53.18	-10~0	dBm/MHz	Pass
5350MHz~5360MHz	-53.91	-53.12	-49.69	-26	dBm/MHz	Pass
802.11ac-HT40 (19 ≤ OBW ≤38MHz)						
5100MHz~5210MHz	-52.88	/	-53.82	-26	dBm/MHz	Pass
5210MHz~5221.6MHz	-50.63	/	-52.55	-26	dBm/MHz	Pass
5221.6MHz~5230MHz	-49.87	/	-53.13	-26~-21	dBm/MHz	Pass
5230MHz~5249MHz	-38.54	/	-52.25	-21~-13	dBm/MHz	Pass
5249MHz~5250MHz	-38.20	/	-51.70	-13~-3	dBm/MHz	Pass
5350MHz~5358MHz	-52.99	/	-47.02	-18	dBm/MHz	Pass
5358.4MHz~5400MHz	-53.67	/	-49.95	-26	dBm/MHz	Pass
802.11ac-HT80 (38≤OBW ≤ 78MHz)						
5020MHz~5203.3MHz	/	-47.80	/	-26	dBm/MHz	Pass
5203.3MHz~5210MHz	/	-47.47	/	-18	dBm/MHz	Pass
5210MHz~5249MHz	/	-37.68	/	-6~-16	dBm/MHz	Pass
5249MHz~5250MHz	/	-37.24	/	-16~-24	dBm/MHz	Pass
5350MHz~5376.8MHz	/	-47.00	/	-24~-26	dBm/MHz	Pass
5376.7MHz~5480MHz	/	-50.11	/	-26	dBm/MHz	Pass

Band 3

Frequency Segments	E.I.R.P level			Limit	Unit	Result
	Low	Middle	High			
802.11a (OBW ≤ 18MHz)						
5455MHz~5460MHz	-52.40	-55.52	-55.54	-26	dBm/MHz	Pass
5460MHz~5470MHz	-49.15	-55.44	-55.37	-19	dBm/MHz	Pass
5725MHz~5740MHz	-54.36	-54.36	-46.99	-19	dBm/MHz	Pass
5740MHz~5745MHz	-54.80	-54.60	-52.43	-26	dBm/MHz	Pass
802.11n-HT20 (OBW ≤ 18MHz)						
5455MHz~5460MHz	-52.20	-54.93	-55.70	-26	dBm/MHz	Pass
5460MHz~5470MHz	-49.00	-54.86	-55.38	-19	dBm/MHz	Pass
5725MHz~5740MHz	-54.86	-54.07	-48.88	-19	dBm/MHz	Pass
5740MHz~5745MHz	-54.92	-54.08	-53.29	-26	dBm/MHz	Pass
802.11n-HT40 (19 ≤ OBW ≤38MHz)						
5420MHz~5460MHz	-52.09	-55.26	-55.49	-19	dBm/MHz	Pass
5460MHz~5470MHz	-48.12	-55.22	-55.38	-13	dBm/MHz	Pass
5725MHz~5760MHz	-54.69	-54.74	-52.47	-19	dBm/MHz	Pass
802.11ac-HT20 (OBW ≤ 18MHz)						
5455MHz~5460MHz	-52.00	-55.60	-55.57	-26	dBm/MHz	Pass
5460MHz~5470MHz	-49.77	-55.10	-55.71	-19	dBm/MHz	Pass
5725MHz~5740MHz	-54.66	-54.51	-48.84	-19	dBm/MHz	Pass
5740MHz~5745MHz	-55.17	-54.43	-52.48	-26	dBm/MHz	Pass
802.11ac-HT40 (38≤OBW ≤ 78MHz)						
5420MHz~5460MHz	-51.56	-55.41	-55.56	-19	dBm/MHz	Pass
5460MHz~5470MHz	-49.03	-55.33	-55.57	-13	dBm/MHz	Pass
5725MHz~5760MHz	-54.38	-54.86	-52.48	-19	dBm/MHz	Pass
802.11ac-HT80 (38≤OBW ≤ 78MHz)						
5340MHz~5460MHz	-51.36	/	-54.16	-19	dBm/MHz	Pass
5460MHz~5469.5MHz	-50.21	/	-53.35	-13	dBm/MHz	Pass
5469.5MHz~5470MHz	-50.54	/	-53.31	-12.9	dBm/MHz	Pass
5725MHz~5800MHz	-54.63	/	-53.35	-19	dBm/MHz	Pass

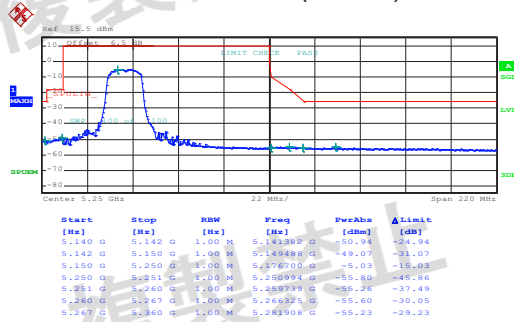
Note:

1. E.I.R.P level = Reading level + Antenna Gain
2. Antenna Gain:

Band 1=2.53dBi, Band 2=1.99dBi, Band 3=0.99dBi, which declared by manufacturer.

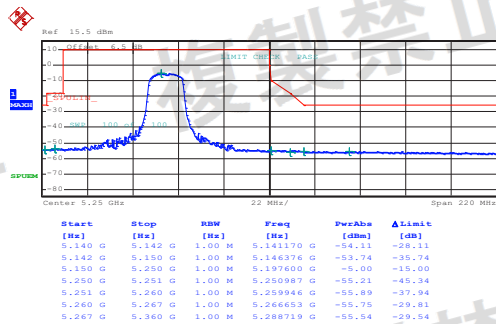
Test plot as follows:

802.11a (Band 1)



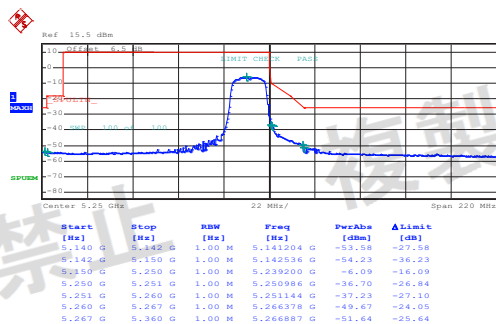
Date: 19.JUN.2019 16:25:23

Lowest channel



Date: 19.JUN.2019 16:26:16

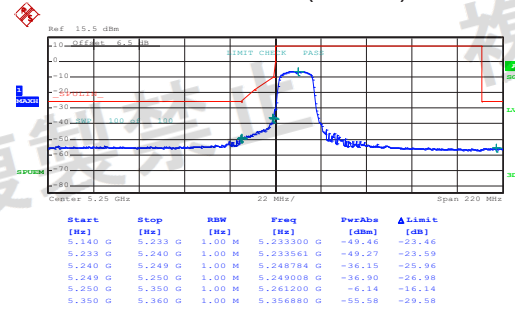
Middle channel



Date: 19.JUN.2019 16:27:30

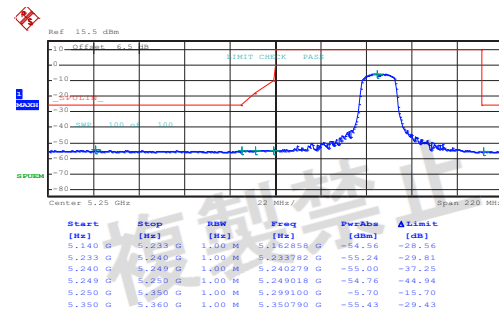
Highest channel

802.11a (Band 2)



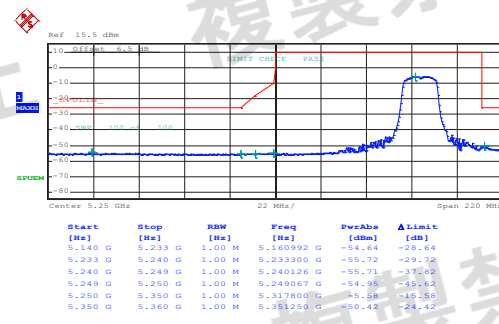
Date: 19.JUN.2019 18:07:09

Lowest channel



Date: 19.JUN.2019 18:06:26

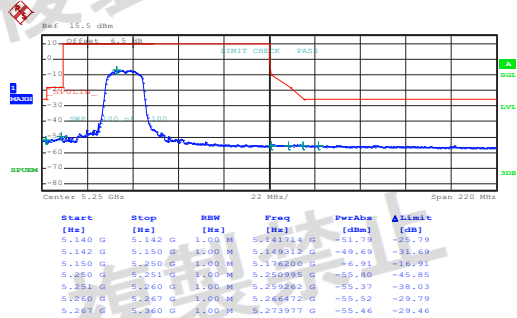
Middle channel



Date: 19.JUN.2019 18:05:44

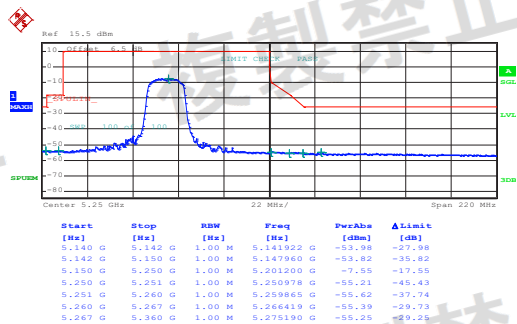
Highest channel

802.11n-HT20 (Band 1)



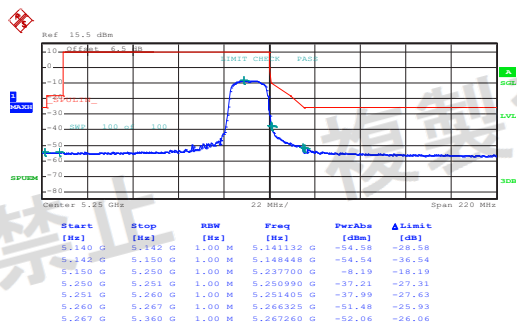
Date: 19.JUN.2019 16:24:22

Lowest channel



Date: 19.JUN.2019 16:23:22

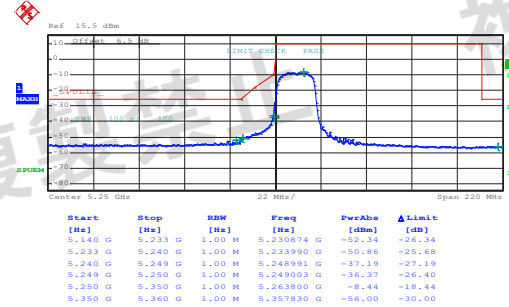
Middle channel



Date: 19.JUN.2019 16:22:13

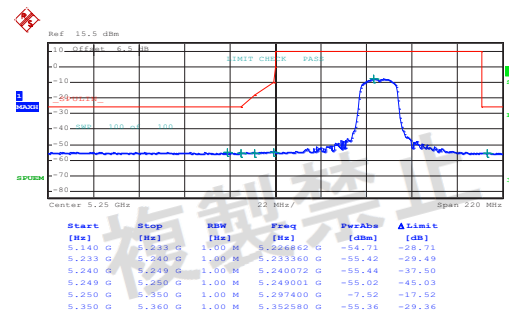
Highest channel

802.11n-HT20 (Band 2)



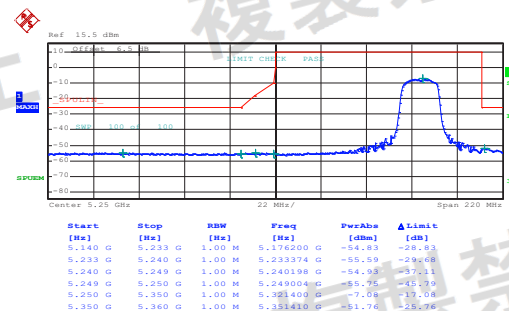
Date: 19.JUN.2019 18:09:15

Lowest channel



Date: 19.JUN.2019 18:10:18

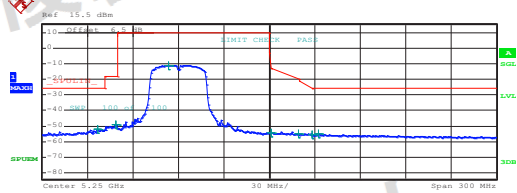
Middle channel



Date: 19.JUN.2019 18:11:27

Highest channel

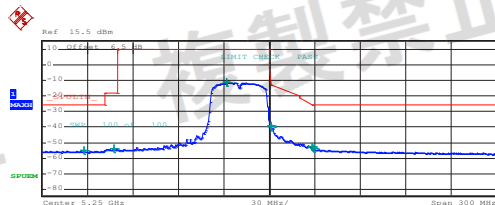
802.11n-HT40 (Band 1)



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]
5.100 G	5.142 G	1.00 M	5.136483 G	-51.78	-25.78
5.142 G	5.150 G	1.00 M	5.148913 G	-49.05	-35.05
5.150 G	5.250 G	1.00 M	5.195300 G	-30.85	-20.85
5.250 G	5.251 G	1.00 M	5.250942 G	-42.02	-42.02
5.251 G	5.270 G	1.00 M	5.265091 G	-35.16	-35.16
5.270 G	5.278 G	1.00 M	5.278506 G	-55.54	-29.71
5.278 G	5.400 G	1.00 M	5.282656 G	-55.22	-29.22

Date: 19.JUN.2019 16:15:19

Lowest channel

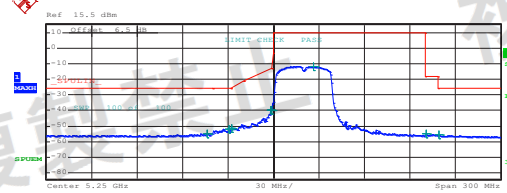


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]
5.100 G	5.142 G	1.00 M	5.136530 G	-55.09	-29.09
5.142 G	5.150 G	1.00 M	5.147346 G	-53.88	-35.88
5.150 G	5.250 G	1.00 M	5.221500 G	-11.34	-21.34
5.250 G	5.251 G	1.00 M	5.250942 G	-38.93	-26.93
5.251 G	5.270 G	1.00 M	5.251076 G	-39.61	-26.58
5.270 G	5.278 G	1.00 M	5.278173 G	-52.41	-26.55
5.278 G	5.400 G	1.00 M	5.279251 G	-53.98	-27.98

Date: 19.JUN.2019 16:14:30

Highest channel

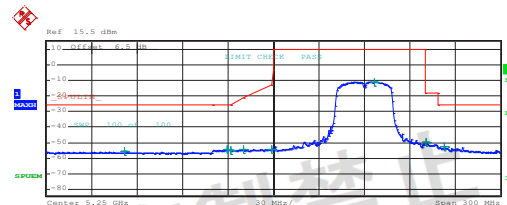
802.11n-HT40 (Band 2)



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]
5.100 G	5.210 G	1.00 M	5.206040 G	-54.76	-28.76
5.210 G	5.222 G	1.00 M	5.220858 G	-52.00	-26.00
5.222 G	5.230 G	1.00 M	5.222608 G	-51.28	-25.88
5.230 G	5.249 G	1.00 M	5.248297 G	-39.71	-26.41
5.249 G	5.250 G	1.00 M	5.249019 G	-39.54	-26.73
5.250 G	5.350 G	1.00 M	5.276600 G	-11.45	-21.45
5.350 G	5.358 G	1.00 M	5.351058 G	-54.84	-36.84
5.358 G	5.400 G	1.00 M	5.358941 G	-55.74	-29.74

Date: 19.JUN.2019 18:17:28

Lowest channel

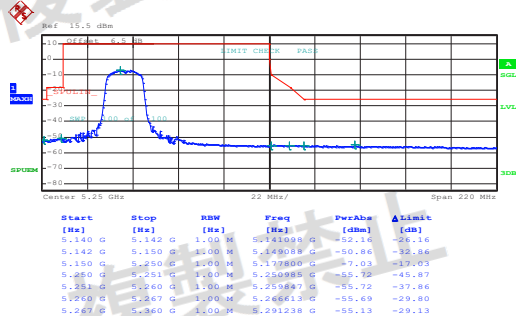


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]
5.100 G	5.210 G	1.00 M	5.206810 G	-55.72	-29.72
5.210 G	5.222 G	1.00 M	5.219547 G	-54.53	-28.53
5.222 G	5.230 G	1.00 M	5.221844 G	-55.12	-29.26
5.230 G	5.249 G	1.00 M	5.230399 G	-54.44	-33.91
5.249 G	5.250 G	1.00 M	5.249046 G	-54.43	-41.89
5.250 G	5.350 G	1.00 M	5.316500 G	-11.08	-21.08
5.350 G	5.358 G	1.00 M	5.350672 G	-49.85	-31.85
5.358 G	5.400 G	1.00 M	5.362518 G	-52.39	-26.39

Date: 19.JUN.2019 18:16:41

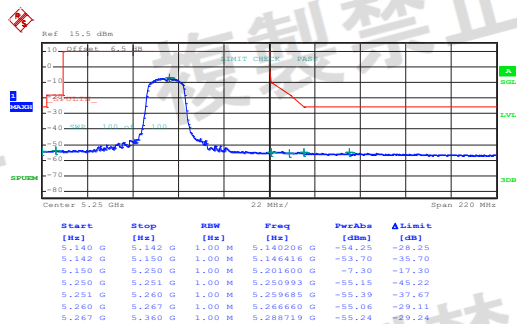
Highest channel

802.11ac-HT20 (Band 1)



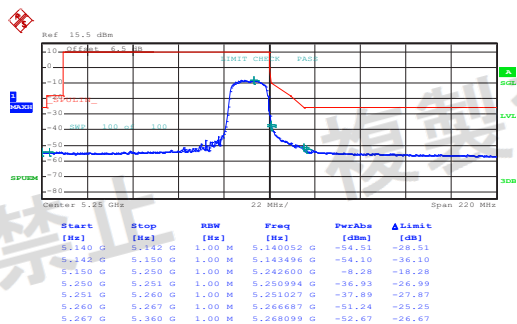
Date: 19.JUN.2019 16:17:29

Lowest channel



Date: 19.JUN.2019 16:19:18

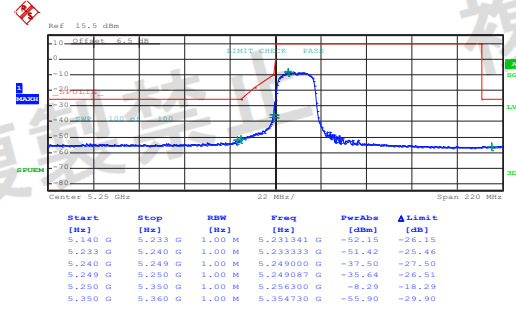
Middle channel



Date: 19.JUN.2019 16:20:35

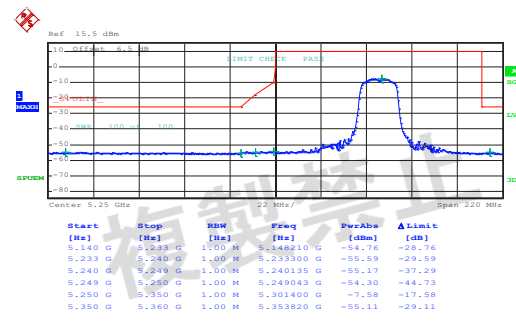
Highest channel

802.11ac-HT20 (Band 2)



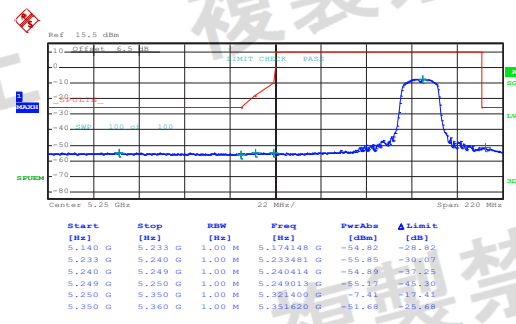
Date: 19.JUN.2019 18:12:27

Lowest channel



Date: 19.JUN.2019 18:13:09

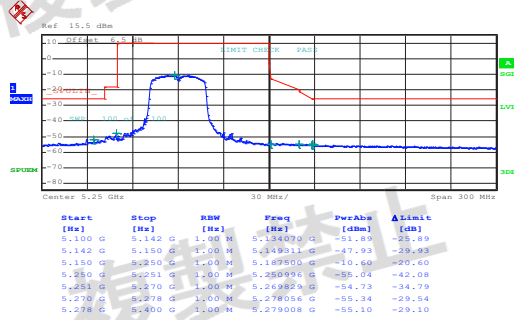
Middle channel



Date: 19.JUN.2019 18:13:52

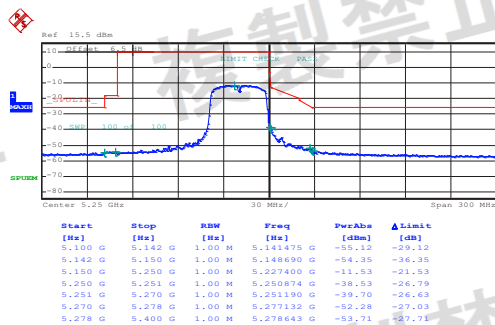
Highest channel

802.11ac-HT40 (Band 1)



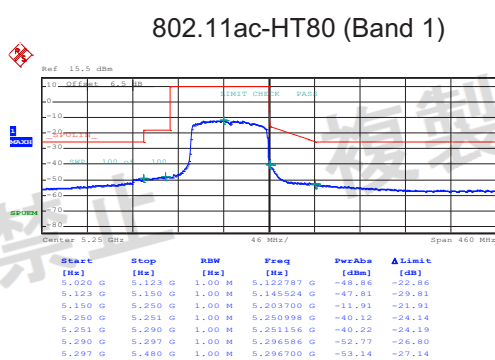
Date: 19.JUN.2019 16:13:14

Lowest channel



Date: 19.JUN.2019 16:12:27

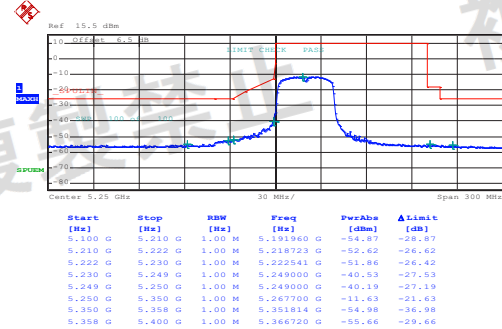
Highest channel



Date: 19.JUN.2019 16:11:00

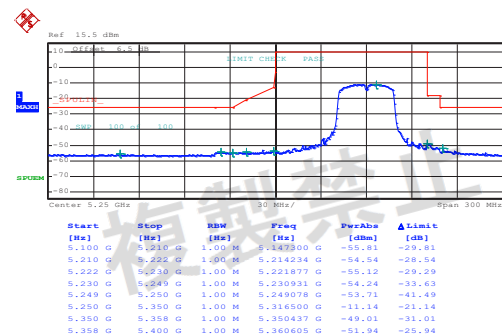
Middle channel

802.11ac-HT40 (Band 2)



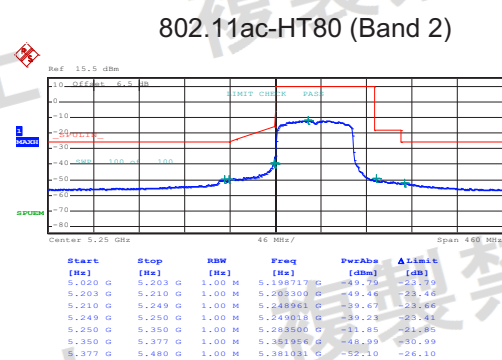
Date: 19.JUN.2019 18:15:01

Lowest channel



Date: 19.JUN.2019 18:15:49

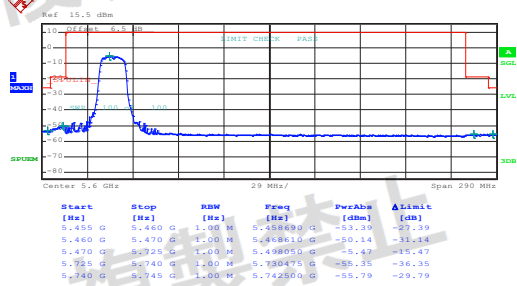
Highest channel



Date: 19.JUN.2019 18:18:59

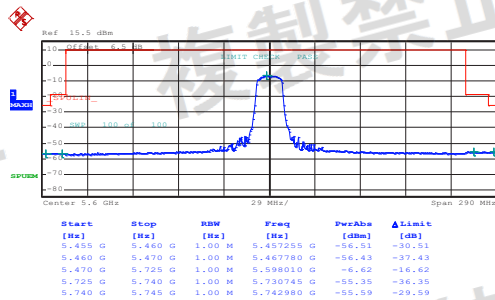
Middle channel

802.11a (Band 3)



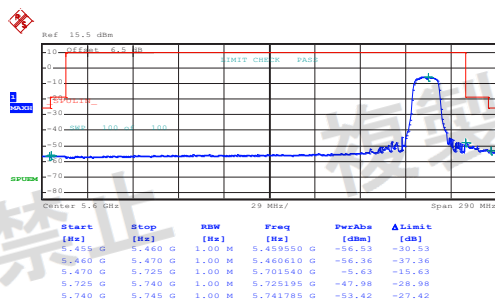
Date: 19.JUN.2019 20:36:42

Lowest channel



Date: 19.JUN.2019 20:37:32

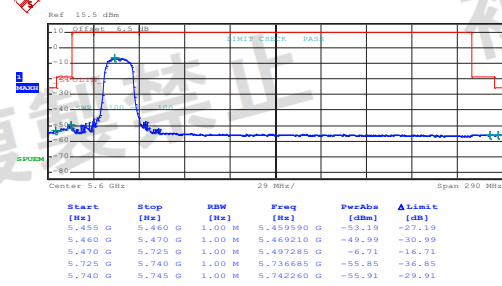
Middle channel



Date: 19.JUN.2019 20:38:14

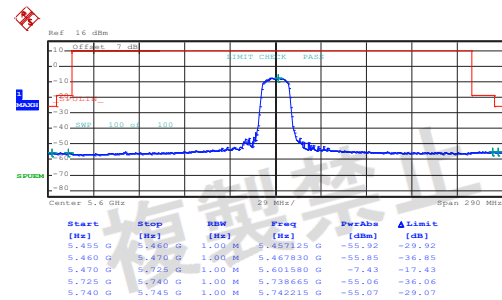
Highest channel

802.11n-HT20 (Band 3)



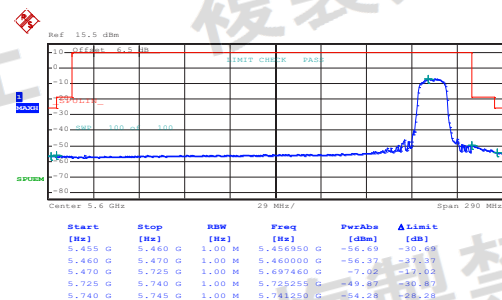
Date: 19.JUN.2019 20:35:36

Lowest channel



Date: 19.JUN.2019 15:51:40

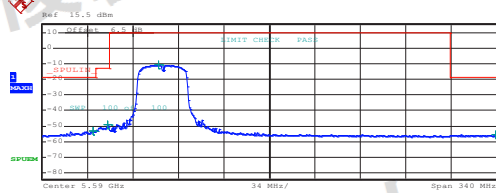
Middle channel



Date: 19.JUN.2019 20:27:28

Highest channel

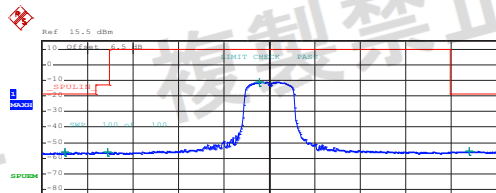
802.11n-HT40 (Band 3)



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]
5.420	5.460	1.00	5.450000	-33.08	-34.08
5.460	5.470	1.00	5.465000	-49.11	-34.11
5.470	5.725	1.00	5.597500	-30.78	-30.78
5.725	5.760	1.00	5.742500	-55.68	-34.68

Date: 19.JUN.2019 20:39:26

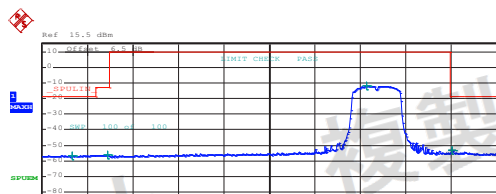
Lowest channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]
5.420	5.460	1.00	5.437000	-56.25	-37.25
5.460	5.470	1.00	5.468900	-56.21	-43.21
5.470	5.725	1.00	5.582710	-10.91	-20.91
5.725	5.760	1.00	5.739350	-55.73	-34.73

Date: 19.JUN.2019 20:40:02

Middle channel

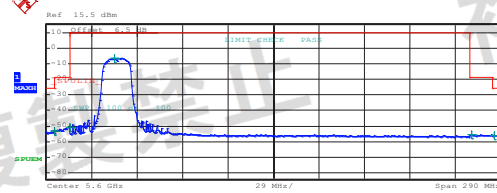


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]
5.420	5.460	1.00	5.442400	-56.48	-37.48
5.460	5.470	1.00	5.469170	-56.37	-43.37
5.470	5.725	1.00	5.663030	-31.74	-21.74
5.725	5.760	1.00	5.726470	-53.46	-34.46

Date: 19.JUN.2019 20:41:19

Highest channel

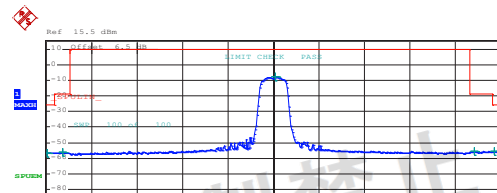
802.11ac-HT20 (Band 3)



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]
5.455	5.460	1.00	5.459975	-52.99	-26.99
5.460	5.470	1.00	5.469850	-50.76	-31.76
5.470	5.725	1.00	5.498560	-6.35	-16.35
5.725	5.740	1.00	5.726410	-55.65	-36.65
5.740	5.745	1.00	5.741025	-56.16	-30.16

Date: 19.JUN.2019 20:25:06

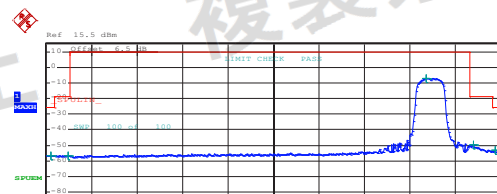
Lowest channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]
5.455	5.460	1.00	5.459975	-50.59	-20.59
5.460	5.470	1.00	5.465490	-56.09	-37.09
5.470	5.725	1.00	5.601325	-7.76	-17.76
5.725	5.740	1.00	5.728420	-55.50	-36.50
5.740	5.745	1.00	5.740835	-55.42	-29.42

Date: 19.JUN.2019 20:25:52

Middle channel

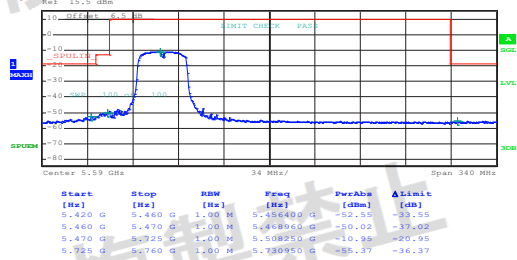


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]
5.455	5.460	1.00	5.457765	-56.56	-30.56
5.460	5.470	1.00	5.468700	-56.70	-37.70
5.470	5.725	1.00	5.697715	-6.76	-16.76
5.725	5.740	1.00	5.727490	-49.83	-30.83
5.740	5.745	1.00	5.741725	-53.47	-27.47

Date: 19.JUN.2019 20:26:41

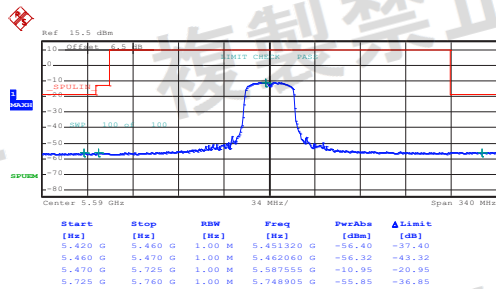
Highest channel

802.11ac-HT40 (Band 3)



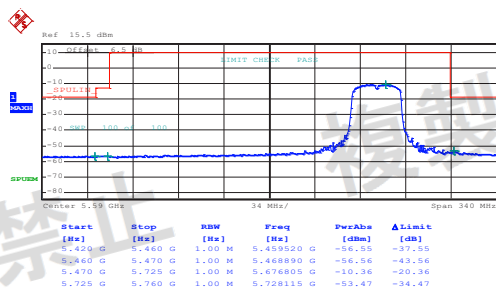
Date: 19.JUN.2019 20:43:30

Lowest channel



Date: 19.JUN.2019 20:42:54

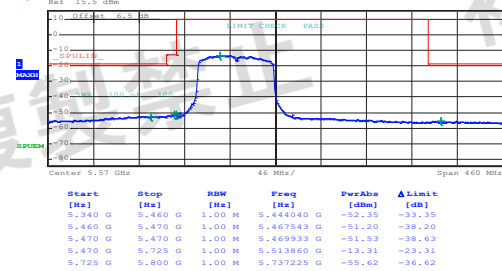
Middle channel



Date: 19.JUN.2019 20:42:18

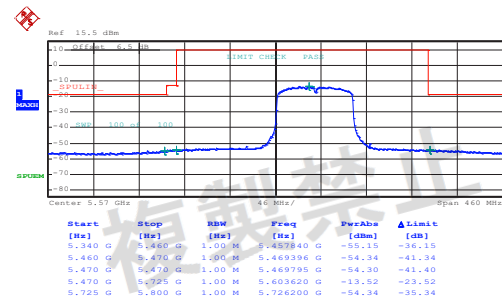
Highest channel

802.11ac-HT80 (Band 3)



Date: 19.JUN.2019 20:11:00

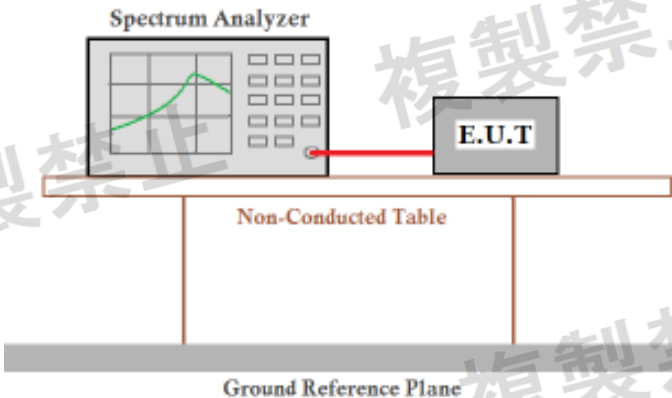
Lowest channel



Date: 19.JUN.2019 20:10:17

Highest channel

6.7 Tolerance of unwanted emissions intensity

Test Requirement:	Article 2 paragraph 1 item (19-3)
Test Method:	Appendix No.45 Notification No.88 of MIC, 2004 section 5
Equipment setup:	Below 1 GHz: RBW=100 kHz, VBW=100 kHz, detector=Peak Above 1 GHz: RBW=1 MHz, VBW=1 MHz, detector=Peak
Limit:	Band 1 and Band 2: 30MHz~1000MHz: 2.5 μ W(-26dBm); <u>OBW $\leq$ 18MHz</u> 1000MHz ~ 5140MHz & 5360MHz ~ 26 GHz: 2.5 μ W(-26dBm); <u>18 MHz $\leq$ OBW $\leq$ 19MHz</u> 1000MHz ~ 5135MHz & 5365MHz ~ 26 GHz: 2.5 μ W(-26dBm); <u>19 MHz $\leq$ OBW $\leq$ 38MHz</u> 1000MHz ~ 5100MHz & 5400MHz ~ 26 GHz: 2.5 μ W(-26dBm); <u>38 MHz $\leq$ OBW $\leq$ 78MHz</u> 1000MHz ~ 5020MHz & 5480MHz ~ 26 GHz: 2.5 μ W(-26dBm); Band 3: 30MHz~1000MHz: 2.5 μ W(-26dBm); <u>OBW $\leq$ 19.7MHz</u> 1000MHz ~ 5455MHz & 5745MHz ~ 26 GHz: 2.5 μ W(-26dBm) for OFDM; 1000MHz ~ 5460MHz & 5740MHz ~ 26 GHz: 2.5 μ W(-26dBm) for Others; <u>19.7 MHz $\leq$ OBW $\leq$ 38MHz</u> 1000MHz ~ 5420MHz & 5760MHz ~ 26 GHz: 2.5 μ W(-26dBm); <u>38 MHz $\leq$ OBW $\leq$ 78MHz</u> 1000MHz ~ 5340MHz & 5800MHz ~ 26 GHz: 2.5 μ W(-26dBm);.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. The E.U.T. is placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Procedure:	<ol style="list-style-type: none"> 1. EUT have transmitted the maximum modulation signal and fixed channelize. 2. Setting of SA is following as: RBW: 100 kHz / VBW: 300 kHz for below 1 GHz&RBW: 1MHz / VBW: 3MHz for Above 1 GHz/ Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold. 3. Using the Spurious Emissions function of SA, setting the limit line and frequency as the limit table, 4. When the trace completed, compared with limit, and saved the plots; 5. Repeat above steps for applicable test frequencies, channel bandwidths.
Test Instruments:	Refer to section 5.7 for details
Test Uncertainty:	± 0.96 dB
Test results:	Pass

Measurement Data:

Band 1

Frequency Segments	Read level			Limit	Unit	Result
	Low	Middle	High			
802.11a (OBW ≤ 18MHz)						
30MHz~1000MHz	-72.47	-72.50	-72.65	-26	dBm/MHz	Pass
1000MHz~5140MHz	-60.93	-64.81	-65.42			
5360MHz~26GHz	-54.72	-54.83	-54.54			
802.11n-HT20 (OBW ≤ 18MHz)						
30MHz~1000MHz	-72.15	-72.60	-72.65	-26	dBm/MHz	Pass
1000MHz~5140MHz	-66.05	-46.56	-63.59			
5360MHz~26GHz	-54.63	-54.52	-54.49			
802.11n-HT40 (19 ≤ OBW ≤38MHz)						
30MHz~1000MHz	-72.39	/	-72.72	-26	dBm/MHz	Pass
1000MHz~5100MHz	-64.97	/	-65.90			
5400MHz~26GHz	-54.68	/	-54.65			
802.11ac-HT20 (38≤OBW ≤ 78MHz)						
30MHz~1000MHz	-72.94	-72.36	-72.18	-26	dBm/MHz	Pass
1000MHz~5140MHz	-60.97	-64.60	-66.33			
5360MHz~26GHz	-54.52	-54.82	-54.76			
802.11ac-HT40 (38≤OBW ≤ 78MHz)						
30MHz~1000MHz	-71.84	/	-72.95	-26	dBm/MHz	Pass
1000MHz~5100MHz	-64.81	/	-65.65			
5400MHz~26GHz	-54.58	/	-54.87			
802.11ac-HT80 (38≤OBW ≤ 78MHz)						
30MHz~1000MHz	/	-72.18	/	-26	dBm/MHz	Pass
1000MHz~5020MHz	/	--54.08	/			
5480MHz~26GHz	/	-54.56	/			

Band 2

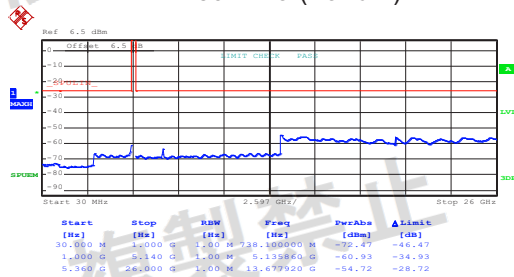
Frequency Segments	Read level			Limit	Unit	Result
	Low	Middle	High			
802.11a (OBW ≤ 18MHz)						
30MHz~1000MHz	-72.23	-72.69	-72.08	-26	dBm/MHz	Pass
1000MHz~5140MHz	-65.91	-66.54	-66.59			
5360MHz~26GHz	-54.64	-54.69	-54.53			
802.11n-HT20 (OBW ≤ 18MHz)						
30MHz~1000MHz	-72.64	-72.75	-72.37	-26	dBm/MHz	Pass
1000MHz~5140MHz	-66.06	-66.41	-66.43			
5360MHz~26GHz	-54.38	-54.69	-54.58			
802.11n-HT40 (19 ≤ OBW ≤ 38MHz)						
30MHz~1000MHz	-72.61	/	-71.98	-26	dBm/MHz	Pass
1000MHz~5100MHz	-66.41	/	-66.40			
5400MHz~26GHz	-54.80	/	-54.60			
802.11ac-HT20 (38≤OBW ≤ 78MHz)						
30MHz~1000MHz	-72.86	-73.10	-70.96	-26	dBm/MHz	Pass
1000MHz~5140MHz	-66.05	-66.25	-66.57			
5360MHz~26GHz	-54.68	-54.45	-54.71			
802.11ac-HT40 (38≤OBW ≤ 78MHz)						
30MHz~1000MHz	-71.80	/	-71.79	-26	dBm/MHz	Pass
1000MHz~5100MHz	-66.23	/	-66.11			
5400MHz~26GHz	-54.48	/	-54.61			
802.11ac-HT80 (38≤OBW ≤ 78MHz)						
30MHz~1000MHz	/	-72.50	/	-26	dBm/MHz	Pass
1000MHz~5020MHz	/	-66.35	/			
5480MHz~26GHz	/	-54.52	/			

Band 3

Frequency Segments	Read level			Limit	Unit	Result
	Low	Middle	High			
802.11a (OBW ≤ 18MHz)						
30MHz~1000MHz	-72.36	-72.97	-72.22	-26	dBm/MHz	Pass
1000MHz~5455MHz	-61.71	-66.23	-66.53			
5745MHz~26GHz	-54.62	-54.66	-54.55			
802.11n-HT20 (OBW ≤ 18MHz)						
30MHz~1000MHz	-72.60	-72.50	-72.76	-26	dBm/MHz	Pass
1000MHz~5455MHz	-46.61	-61.84	-60.47			
5745MHz~26GHz	-54.50	-54.47	-54.52			
802.11n-HT40 (19 ≤ OBW ≤38MHz)						
30MHz~1000MHz	-72.54	-72.71	-72.24	-26	dBm/MHz	Pass
1000MHz~5420MHz	-64.91	-65.91	-66.16			
5760MHz~26GHz	-54.62	-54.60	-54.53			
802.11ac-HT20 (38≤OBW ≤ 78MHz)						
30MHz~1000MHz	-72.82	-71.72	-72.72	-26	dBm/MHz	Pass
1000MHz~5455MHz	-62.33	-66.29	-66.01			
5745MHz~26GHz	-54.65	-54.56	-54.52			
802.11ac-HT40 (38≤OBW ≤ 78MHz)						
30MHz~1000MHz	-72.13	-72.18	-71.67	-26	dBm/MHz	Pass
1000MHz~5420MHz	-64.42	-66.06	-66.09			
5760MHz~26GHz	-54.48	-54.40	-54.61			
802.11ac-HT80 (38≤OBW ≤ 78MHz)						
30MHz~1000MHz	-72.30	/	-72.36	-26	dBm/MHz	Pass
1000MHz~5340MHz	-64.19	/	-48.24			
5800MHz~26GHz	-54.49	/	-54.53			

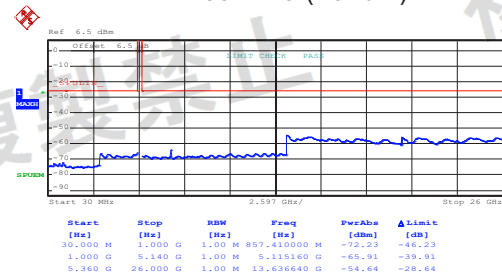
Test plot as follows:

802.11a (Band 1)



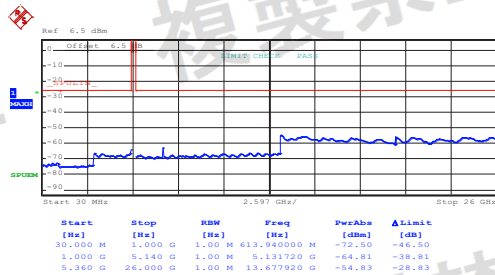
Date: 19.JUN.2019 16:30:25

802.11a (Band 2)



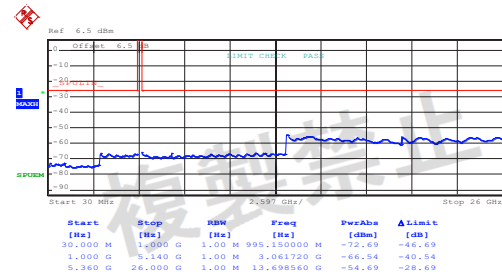
Date: 19.JUN.2019 18:32:15

Lowest channel



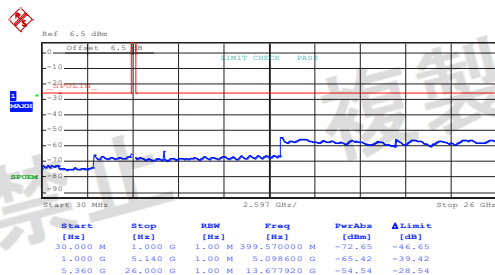
Date: 19.JUN.2019 16:30:09

Lowest channel



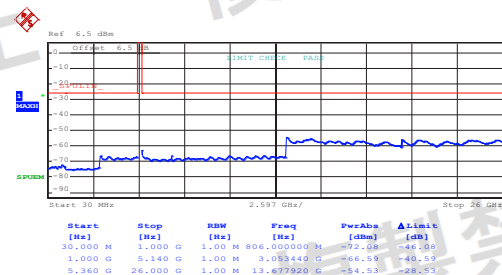
Date: 19.JUN.2019 18:32:28

Middle channel



Date: 19.JUN.2019 16:29:22

Middle channel

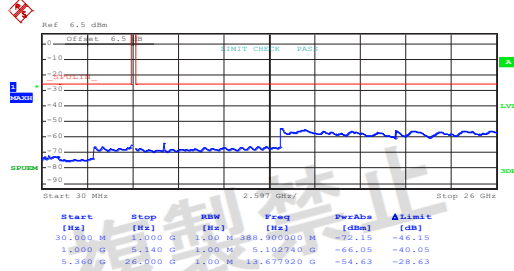


Date: 19.JUN.2019 18:32:43

Highest channel

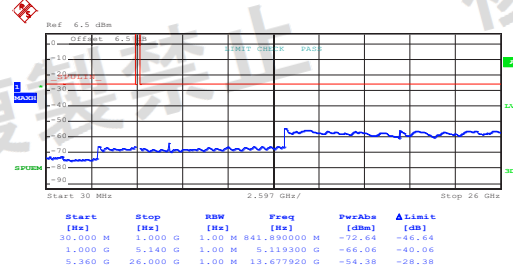
Highest channel

802.11n-HT20 (Band 1)



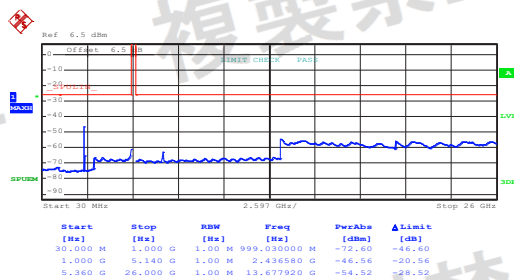
Date: 19.JUN.2019 16:30:51

802.11n-HT20 (Band 2)



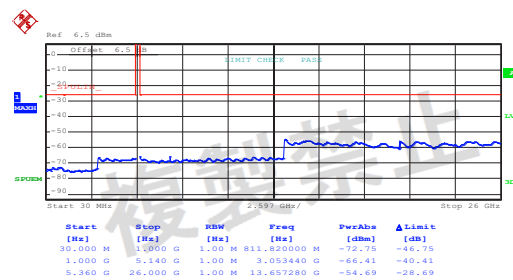
Date: 19.JUN.2019 18:23:19

Lowest channel



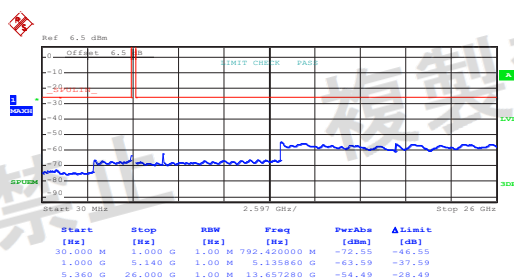
Date: 19.JUN.2019 16:31:06

Lowest channel



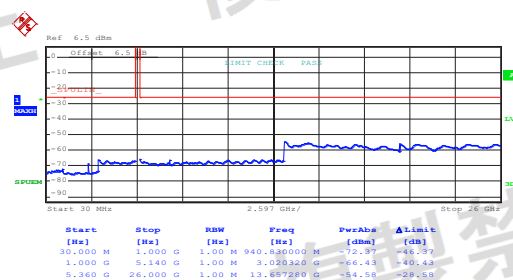
Date: 19.JUN.2019 18:28:47

Middle channel



Date: 19.JUN.2019 16:31:25

Middle channel

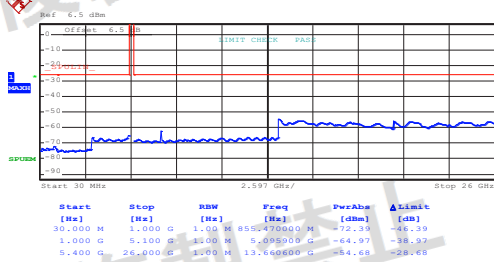


Date: 19.JUN.2019 18:29:09

Highest channel

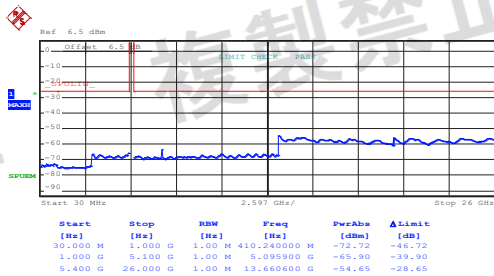
Highest channel

802.11n-HT40 (Band 1)



Date: 19.JUN.2019 17:07:29

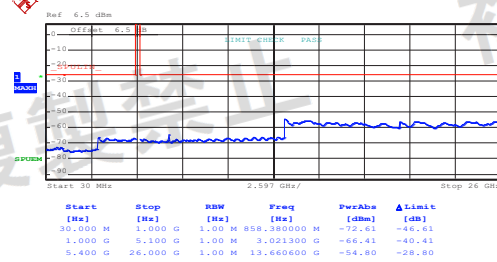
Lowest channel



Date: 19.JUN.2019 17:07:11

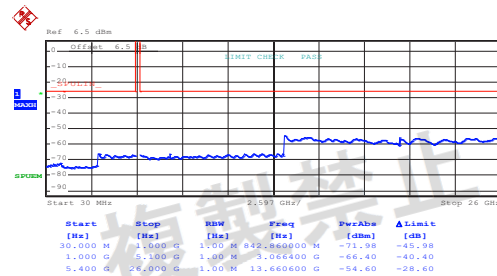
Highest channel

802.11n-HT40 (Band 2)



Date: 19.JUN.2019 18:22:05

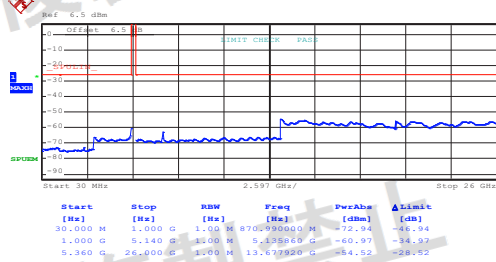
Lowest channel



Date: 19.JUN.2019 18:22:37

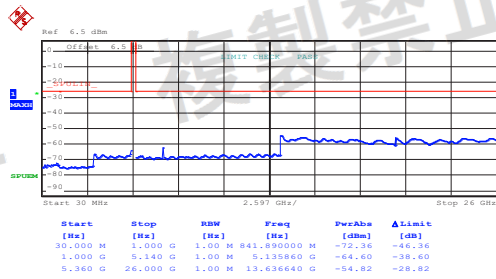
Highest channel

802.11ac-HT20 (Band 1)



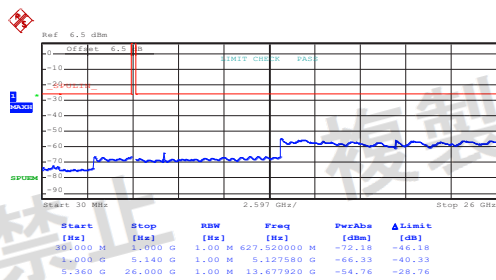
Date: 19.JUN.2019 16:32:11

Lowest channel



Date: 19.JUN.2019 17:05:31

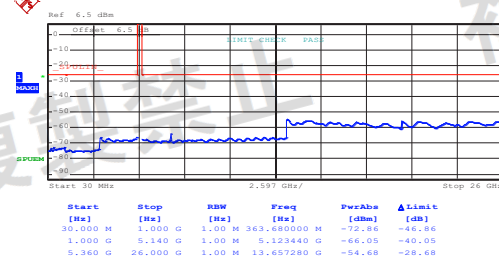
Middle channel



Date: 19.JUN.2019 17:05:46

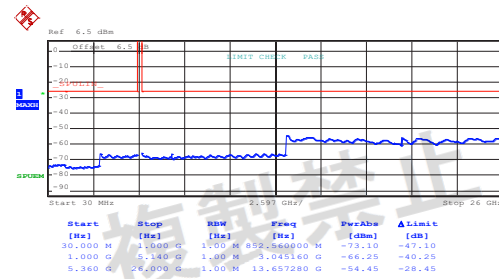
Highest channel

802.11ac-HT20 (Band 2)



Date: 19.JUN.2019 18:31:49

Lowest channel



Date: 19.JUN.2019 18:31:34

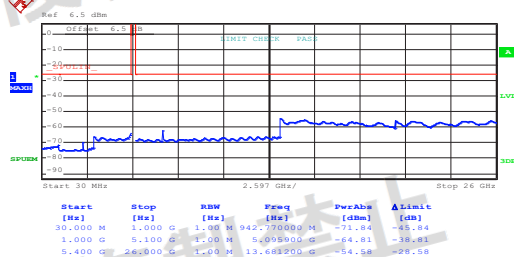
Middle channel



Date: 19.JUN.2019 18:31:13

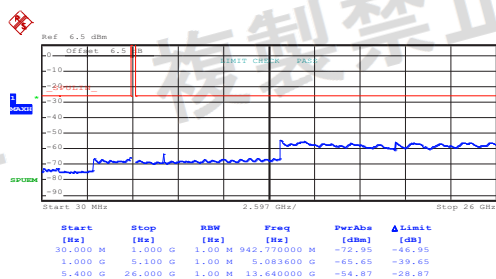
Highest channel

802.11ac-HT40 (Band 1)



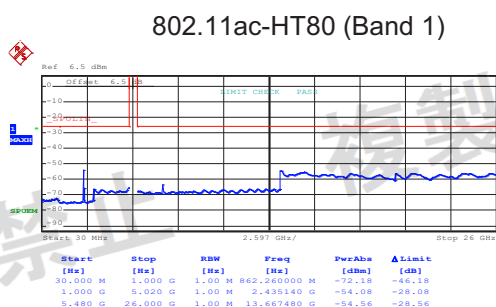
Date: 19.JUN.2019 17:06:36

Lowest channel



Date: 19.JUN.2019 17:06:51

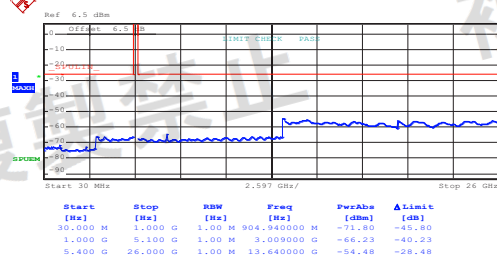
Highest channel



Date: 19.JUN.2019 17:08:05

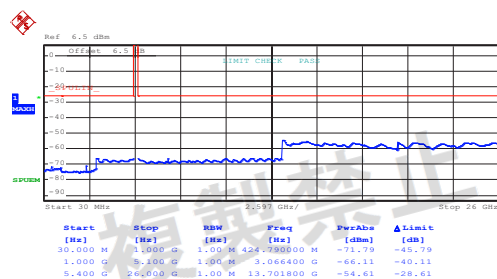
Middle channel

802.11ac-HT40 (Band 2)



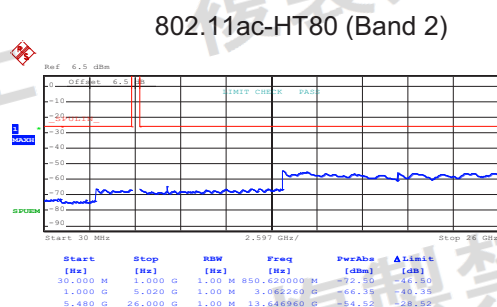
Date: 19.JUN.2019 18:21:54

Lowest channel



Date: 19.JUN.2019 18:21:31

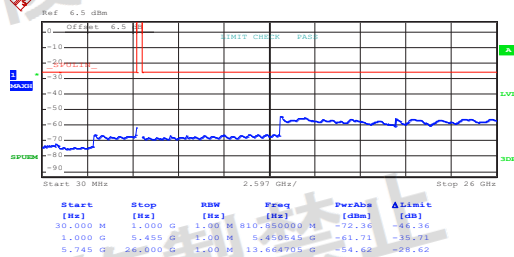
Highest channel



Date: 19.JUN.2019 18:20:19

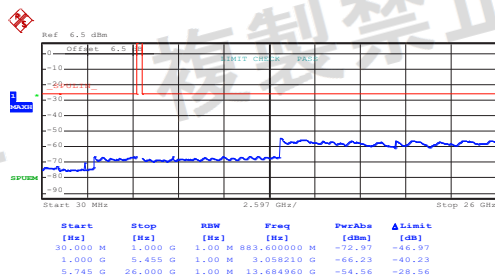
Middle channel

802.11a (Band 3)



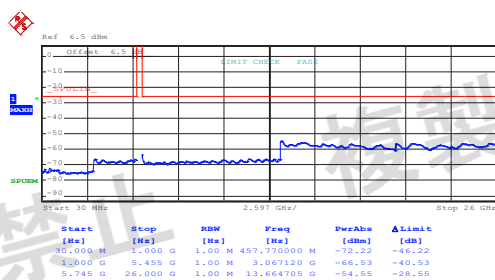
Date: 19.JUN.2019 20:49:31

Lowest channel



Date: 19.JUN.2019 20:49:45

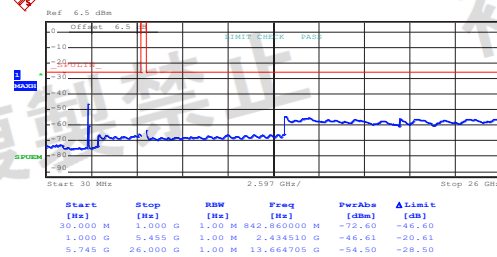
Middle channel



Date: 19.JUN.2019 20:49:58

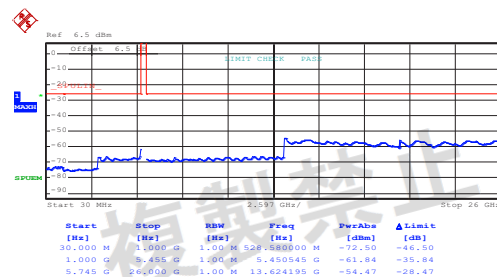
Highest channel

802.11n-HT20 (Band 3)



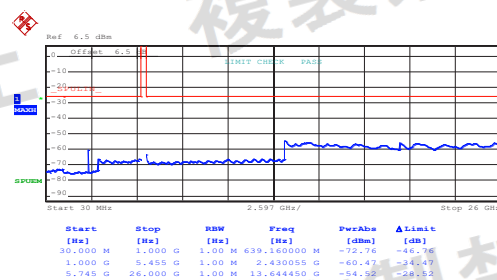
Date: 19.JUN.2019 20:50:31

Lowest channel



Date: 19.JUN.2019 20:50:49

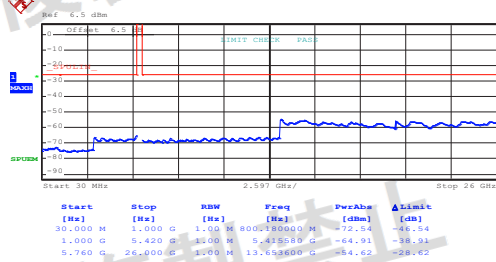
Middle channel



Date: 19.JUN.2019 20:51:11

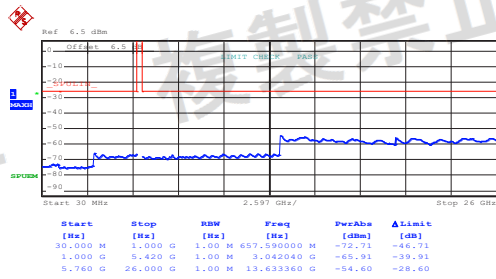
Highest channel

802.11n-HT40 (Band 3)



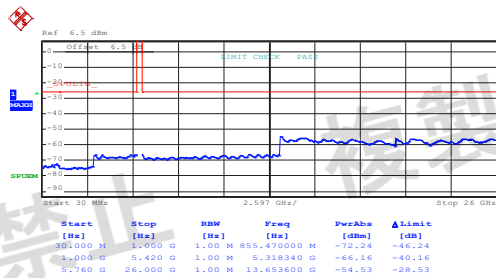
Date: 19.JUN.2019 20:47:54

Lowest channel



Date: 19.JUN.2019 20:47:39

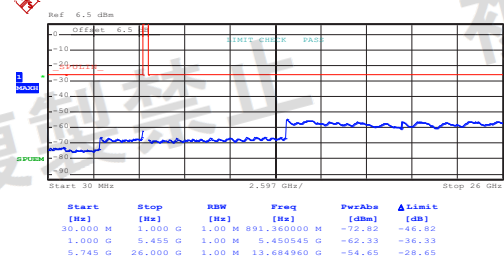
Middle channel



Date: 19.JUN.2019 20:47:26

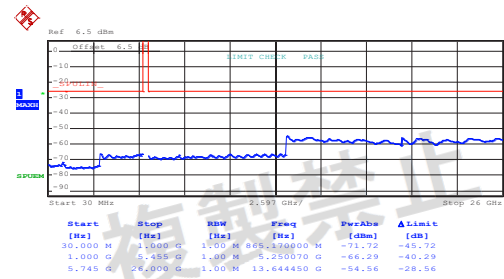
Highest channel

802.11ac-HT20 (Band 3)



Date: 19.JUN.2019 20:52:09

Lowest channel



Date: 19.JUN.2019 20:51:54

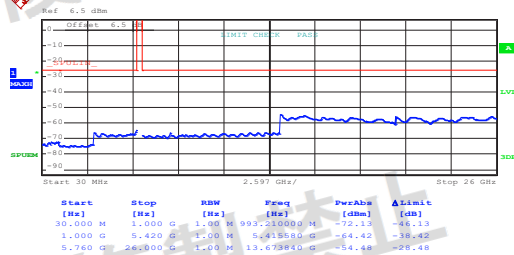
Middle channel



Date: 19.JUN.2019 20:51:39

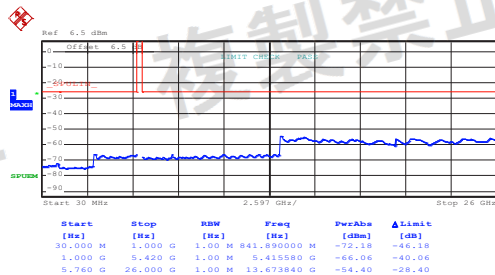
Highest channel

802.11ac-HT40 (Band 3)



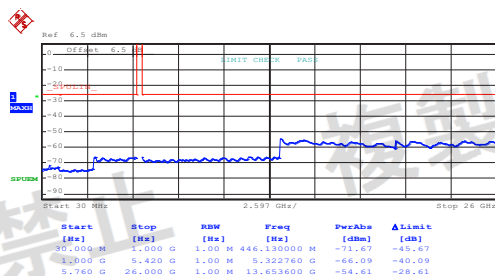
Date: 19.JUN.2019 20:46:35

Lowest channel



Date: 19.JUN.2019 20:46:53

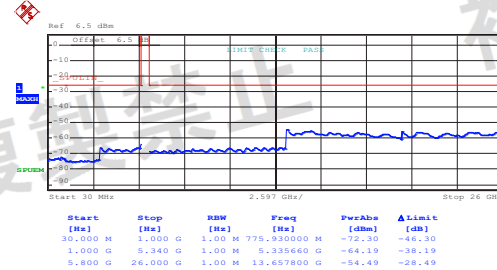
Middle channel



Date: 19.JUN.2019 20:47:10

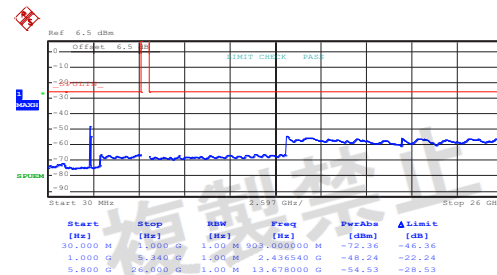
Highest channel

802.11ac-HT80 (Band 3)



Date: 19.JUN.2019 20:48:35

Lowest channel



Date: 19.JUN.2019 20:48:52

Highest channel

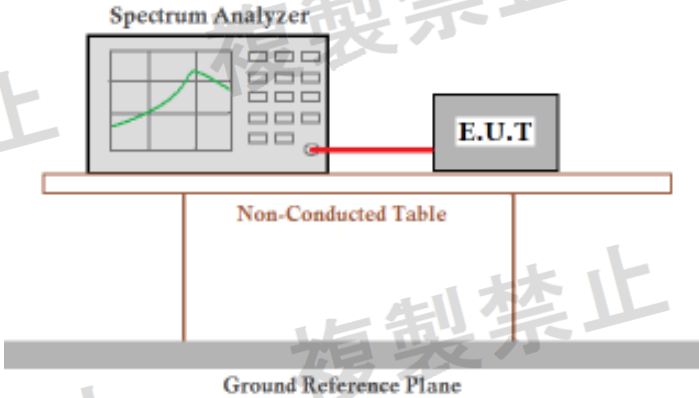
6.8 Transmitting rate

Test Requirement:	Article 2 paragraph 1 item (19-3)
Test Method:	Ordinance Regulating Radio Equipment No. 18, Article 49-20
Requirement:	$OBW \leq 19MHz \geq 20Mbps$ $19 MHz \leq OBW \leq 38MHz \geq 40Mbps$ $38 MHz \leq OBW \leq 78MHz \geq 80Mbps$ $78 MHz \leq OBW \leq 158MHz \geq 160Mbps$
Test setup:	
Test Procedure:	<ol style="list-style-type: none"> 1. Connect the EUT to Wireless AP by Wi-Fi function; 2. Connect the Wireless AP to Laptop by wired cable; 3. Run the throughput test software "iPerf"; 4. Record the transmitting rate; 5. Repeat above steps for all modes.
Test Instruments:	Refer to section 5.7 for details
Test results:	Pass.

Measurement Data:

Modes	Transmitting Rate	Result
802.11a	$\geq 20Mbps$	Pass
802.11n-HT20	$\geq 20Mbps$	Pass
802.11n-HT40	$\geq 40Mbps$	Pass
802.11a-HT20	$\geq 20Mbps$	Pass
802.11n-HT40	$\geq 40Mbps$	Pass
802.11n-HT80	$\geq 80Mbps$	Pass

6.9 Transmitting burst length

Test Requirement:	Article 2 paragraph 1 item (19-3)
Test Method:	Ordinance Regulating Radio Equipment No. 18, Article 49-20
Requirement:	$\leq 4\text{ms}$
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>
Test Procedure:	<ol style="list-style-type: none"> 1. EUT have transmitted the maximum modulation signal and fixed channelize. 2. Setting of SA is following as: RBW: 1MHz / VBW: 3MHz /Span = 0 / Sweep time: 5ms / Sweep Mode: Single sweep / Detect mode: RMS / Trace mode: Max hold. 3. Press the Sweep Button, and captured at least on burst by SA; 4. Use the delta function to marker the burst length 5. When the trace completed, saved the plots; 6. Repeat above steps for applicable test frequencies and channel bandwidths.
Test Instruments:	Refer to section 5.7 for details
Test results:	Pass.

Measurement Data:

Band 1

Modes	Transmitting burst length	Limit	Result
802.11a	2.26 ms	$\leq 4\text{ms}$	Pass
802.11n-HT20	2.020 ms		
802.11n-HT40	978 μs		
802.11ac 20	2.06 ms		
802.11ac 40	1.068 ms		
802.11ac 80	588 μs		

Band 2

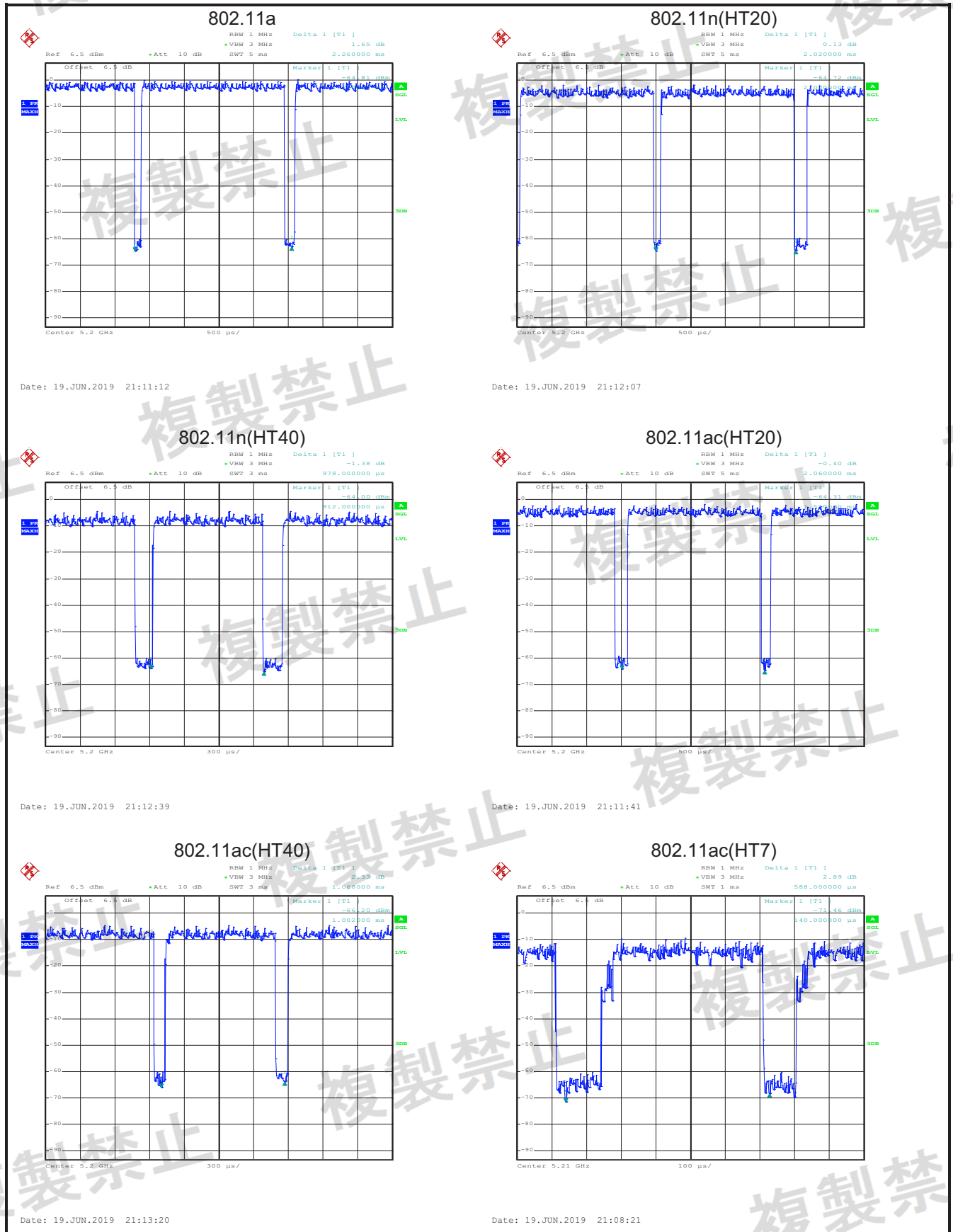
Modes	Transmitting burst length	Limit	Result
802.11a	2.140 ms	$\leq 4\text{ms}$	Pass
802.11n-HT20	2.020 ms		
802.11n-HT40	1.026 ms		
802.11ac 20	1.970 ms		
802.11ac 40	1.068 ms		
802.11ac 80	574 μs		

Band 3

Modes	Transmitting burst length	Limit	Result
802.11a	2.250 ms	$\leq 4\text{ms}$	Pass
802.11n-HT20	1.980 ms		
802.11n-HT40	1.068 ms		
802.11ac 20	2.090 ms		
802.11ac 40	1.062 ms		
802.11ac 80	484 μs		

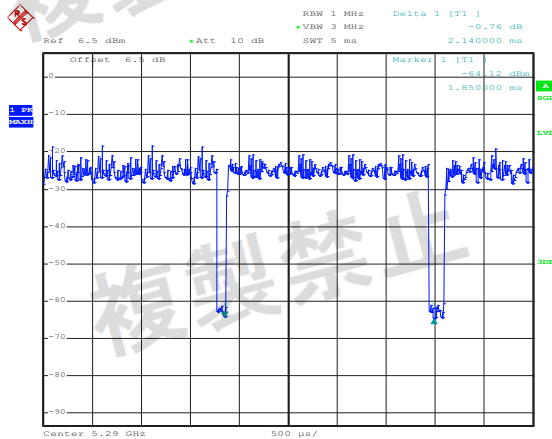
Test plots as below:

Band 1:



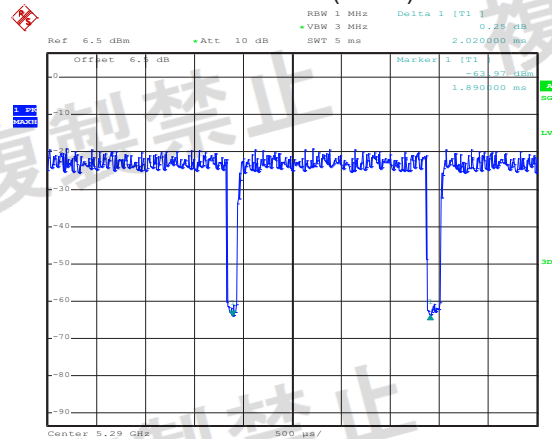
Band 2:

802.11a



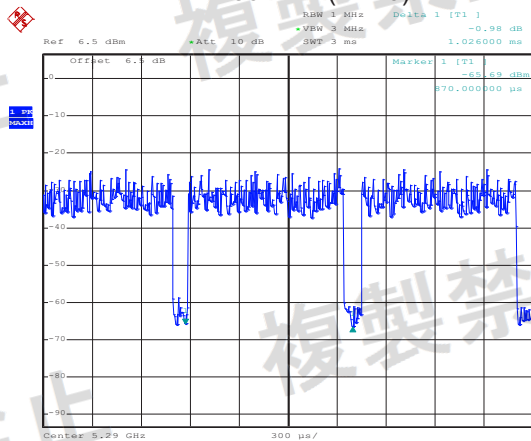
Date: 19.JUN.2019 21:07:34

802.11n(HT20)



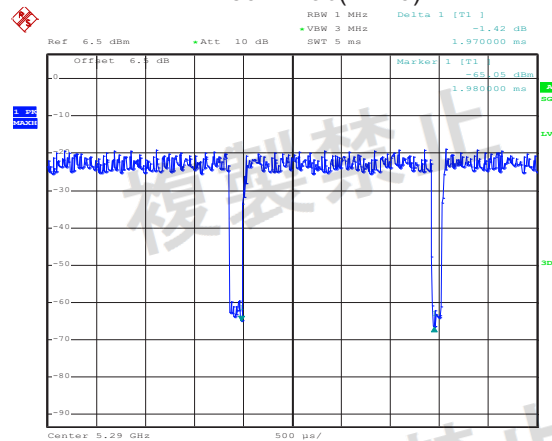
Date: 19.JUN.2019 21:07:14

802.11n(HT40)



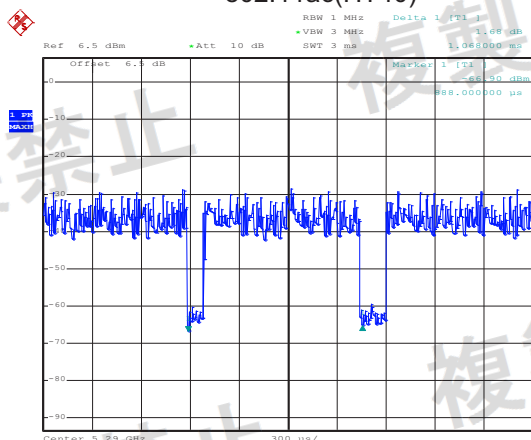
Date: 19.JUN.2019 21:06:21

802.11ac(HT20)



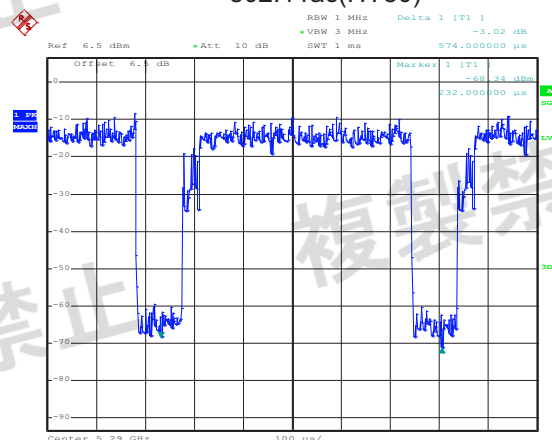
Date: 19.JUN.2019 21:06:53

802.11ac(HT40)



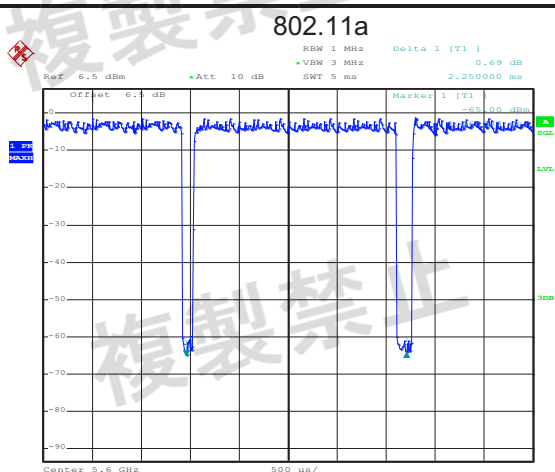
Date: 19.JUN.2019 21:05:54

802.11ac(HT80)

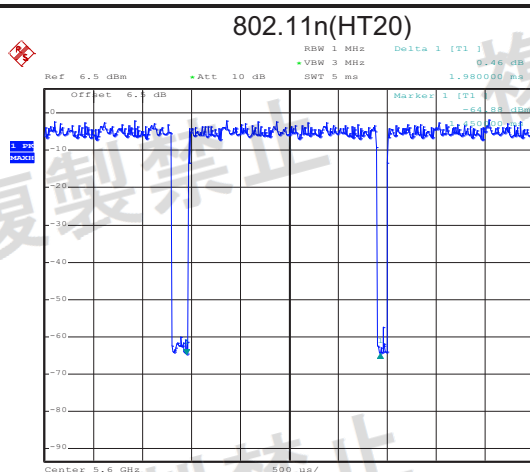


Date: 19.JUN.2019 21:04:59

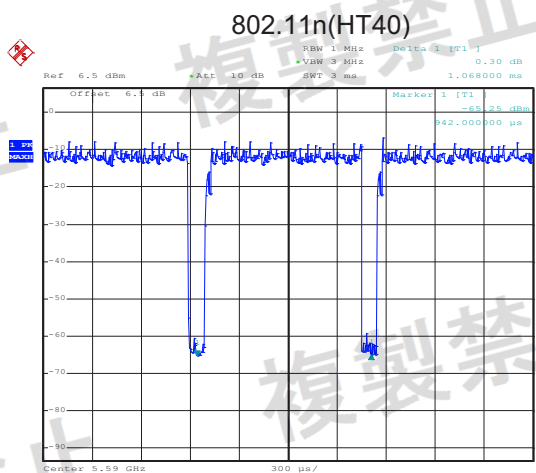
Band 3:



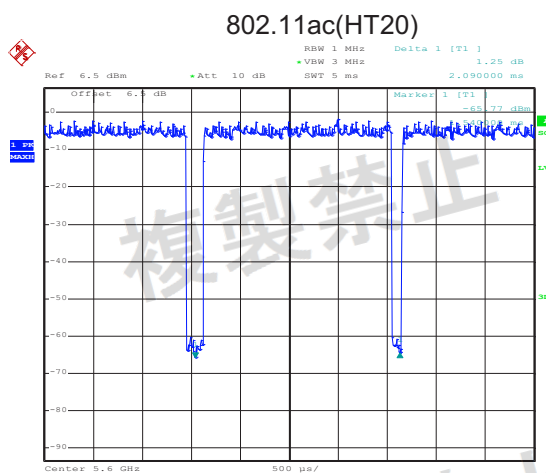
Date: 19.JUN.2019 21:01:50



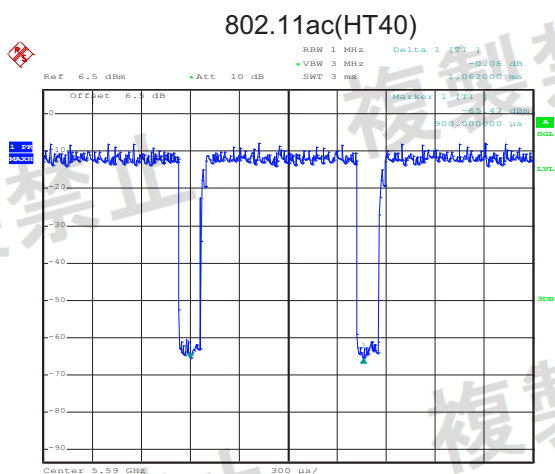
Date: 19.JUN.2019 21:02:37



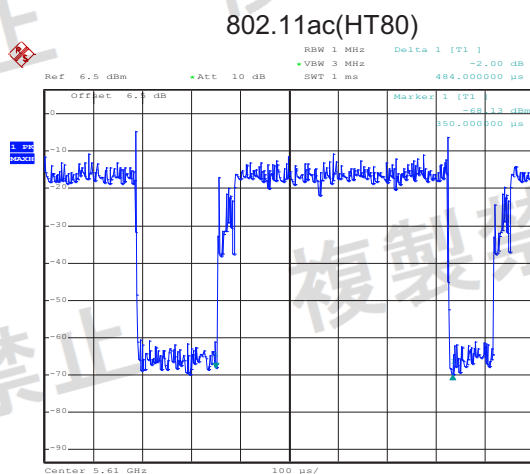
Date: 19.JUN.2019 21:03:47



Date: 19.JUN.2019 21:03:03

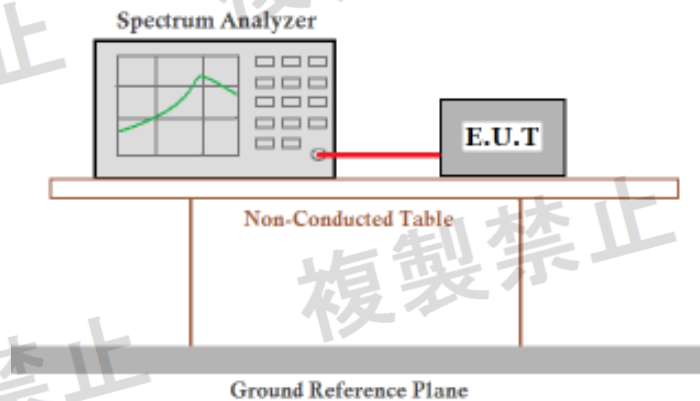


Date: 19.JUN.2019 21:04:16



Date: 19.JUN.2019 21:00:37

6.10 Limit of Secondary Radiated Emissions

Test Requirement:	Article 2 paragraph 1 item (19-3)
Test Method:	Appendix No.45 Notification No.88 of MIC, 2004 section 8
Equipment Setup:	RBW = 100 kHz, VBW = 100 kHz for below 1 GHz RBW = 1 MHz, VBW = 3 MHz for above 1 GHz
Limit:	≤ 4 nW for below 1 GHz, ≤ 20 nW for above 1 GHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>
Test procedure:	<ol style="list-style-type: none"> 1. EUT have the continuous reception mode and fixed only one channelize. 2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold 3. SA set RB: 100 kHz and VB: 100 kHz. Then adjust to start frequency 30MHz and stop frequency 1000 MHz. Search to mark peak reading value + cable loss shall be less than 4nW 4. SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 26000 MHz. Search to mark peak reading value + cable loss shall be less than 20 nW 5. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1$GHz, 2 nW for $f \geq 1$GHz), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.
Test Instruments:	Refer to section 5.7 for details
Test Uncertainty:	± 0.96 dB
Test results:	Pass

Measurement Data:

Band 1:

Test mode: 802.11a						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-79.16	-78.17	-78.95	-54	dBm	Pass
1GHz ~ 10GHz	-70.74	-70.81	-70.82	-47		
10GHz ~26GHz	-64.64	-64.64	-64.68	-47		
Test mode: 802.11n-HT20						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-78.44	-79.56	-78.18	-54	dBm	Pass
1GHz ~ 10GHz	-70.89	-70.86	-70.92	-47		
10GHz ~ 26GHz	-64.66	-64.74	-64.62	-47		
Test mode: 802.11n-HT40						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-79.31	/	-80.04	-54	dBm	Pass
1GHz ~ 10GHz	-70.88	/	-70.87	-47		
10GHz ~ 26GHz	-64.52	/	-64.56	-47		
Test mode: 802.11ac-HT20						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-79.28	-79.30	-79.24	-54	dBm	Pass
1GHz ~ 10GHz	-70.81	-70.77	-70.81	-47		
10GHz ~26GHz	-64.72	-64.71	-64.69	-47		
Test mode: 802.11ac-HT40						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-79.35	/	-79.08	-54	dBm	Pass
1GHz ~ 10GHz	-70.81	/	-70.74	-47		
10GHz ~ 26GHz	-64.54	/	-64.61	-47		
Test mode: 802.11ac-HT80						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	/	-79.26	/	-54	dBm	Pass
1GHz ~ 10GHz	/	-70.52	/	-47		
10GHz ~ 26GHz	/	-64.67	/	-47		

Band 2:

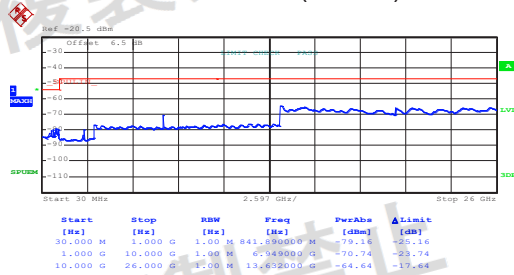
Test mode: 802.11a						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-78.53	-78.36	-79.69	-54	dBm	Pass
1GHz ~ 10GHz	-70.96	-70.71	-70.77	-47		
10GHz ~26GHz	-64.72	-64.45	-64.62	-47		
Test mode: 802.11n-HT20						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-79.05	-79.38	-78.32	-54	dBm	Pass
1GHz ~ 10GHz	-70.95	-70.90	-70.70	-47		
10GHz ~ 26GHz	-64.55	-64.48	-64.52	-47		
Test mode: 802.11n-HT40						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-79.05	/	-79.24	-54	dBm	Pass
1GHz ~ 10GHz	-70.71	/	-70.79	-47		
10GHz ~ 26GHz	-64.60	/	-64.65	-47		
Test mode: 802.11ac-HT20						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-79.26	-78.37	-79.69	-54	dBm	Pass
1GHz ~ 10GHz	-70.94	-70.80	-70.87	-47		
10GHz ~26GHz	-64.75	-64.73	-64.69	-47		
Test mode: 802.11ac-HT40						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-79.13	/	-79.14	-54	dBm	Pass
1GHz ~ 10GHz	-70.70	/	-70.89	-47		
10GHz ~ 26GHz	-64.52	/	-64.70	-47		
Test mode: 802.11ac-HT80						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	/	-79.86	/	-54	dBm	Pass
1GHz ~ 10GHz	/	-70.67	/	-47		
10GHz ~ 26GHz	/	-64.59	/	-47		

Band 3:

Test mode: 802.11a						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-79.26	-78.44	-78.25	-54	dBm	Pass
1GHz ~ 10GHz	-70.87	-70.79	-70.75	-47		
10GHz ~26GHz	-64.61	-64.69	-64.63	-47		
Test mode: 802.11n-HT20						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-79.00	-78.03	-79.18	-54	dBm	Pass
1GHz ~ 10GHz	-70.69	-70.76	-70.77	-47		
10GHz ~ 26GHz	-64.72	-64.64	-64.42	-47		
Test mode: 802.11n-HT40						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-78.71	-79.49	-78.86	-54	dBm	Pass
1GHz ~ 10GHz	-70.74	-70.91	-70.66	-47		
10GHz ~ 26GHz	-64.68	-64.73	-64.57	-47		
Test mode: 802.11ac-HT20						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-78.29	-79.96	-79.13	-54	dBm	Pass
1GHz ~ 10GHz	-70.52	-70.89	-70.82	-47		
10GHz ~26GHz	-64.47	-64.73	-64.58	-47		
Test mode: 802.11ac-HT40						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-77.15	-78.71	-80.04	-54	dBm	Pass
1GHz ~ 10GHz	-70.55	-70.87	-70.77	-47		
10GHz ~ 26GHz	-64.70	-64.52	-64.48	-47		
Test mode: 802.11ac-HT80						
Frequency Segments	Read Level			Limit	Unit	Result
	Lowest channel	Middle channel	Highest channel			
30MHz ~ 1GHz	-78.50	/	-78.90	-54	dBm	Pass
1GHz ~ 10GHz	-70.99	/	-70.96	-47		
10GHz ~ 26GHz	-64.68	/	-64.59	-47		

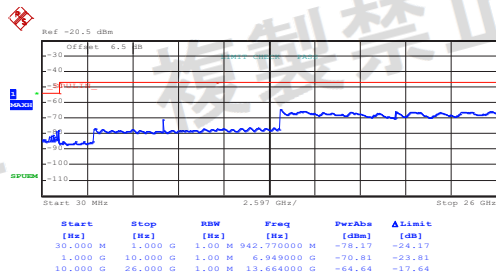
Test plot as follows:

802.11a (Band 1)



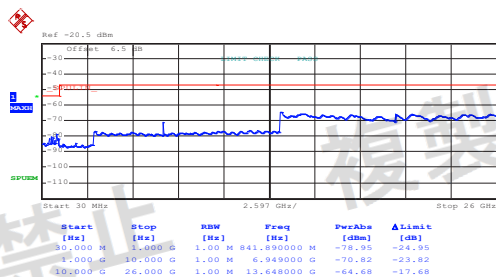
Date: 19.JUN.2019 17:08:48

Lowest channel



Date: 19.JUN.2019 17:09:01

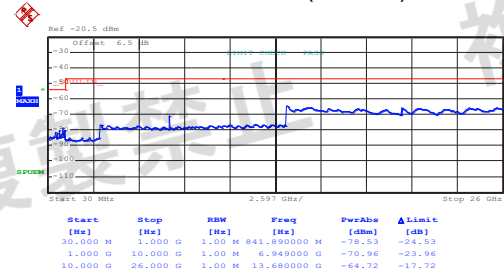
Middle channel



Date: 19.JUN.2019 17:09:11

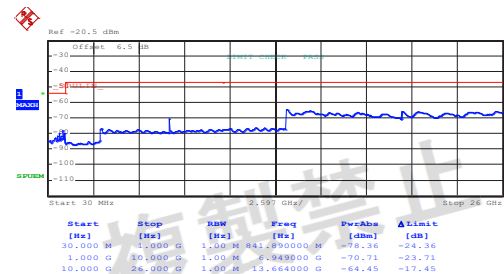
Highest channel

802.11a (Band 2)



Date: 19.JUN.2019 17:15:19

Lowest channel



Date: 19.JUN.2019 17:15:31

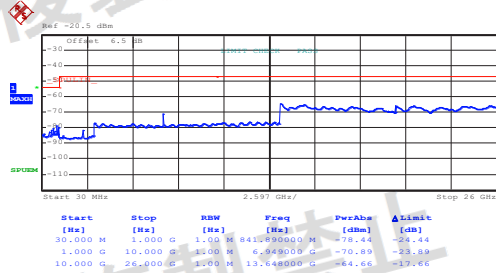
Middle channel



Date: 19.JUN.2019 17:15:46

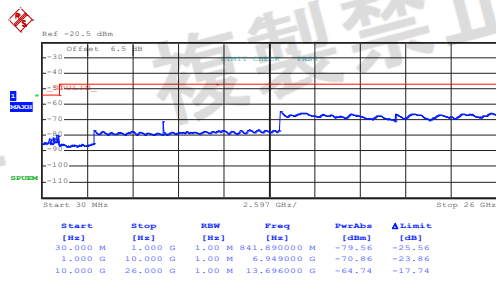
Highest channel

802.11n-HT20 (Band 1)



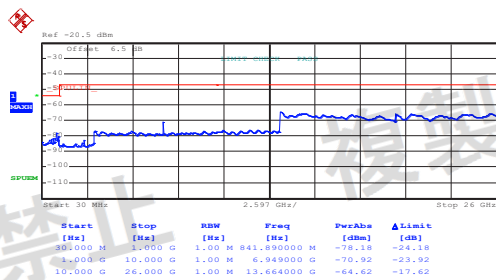
Date: 19.JUN.2019 17:09:44

Lowest channel



Date: 19.JUN.2019 17:09:34

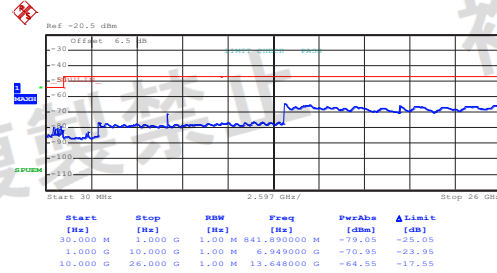
Middle channel



Date: 19.JUN.2019 17:09:24

Highest channel

802.11n-HT20 (Band 2)



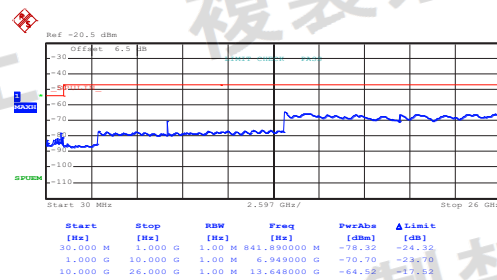
Date: 19.JUN.2019 17:13:50

Lowest channel



Date: 19.JUN.2019 17:14:02

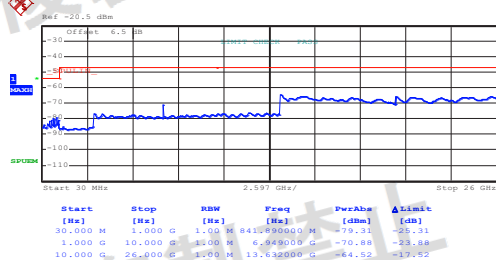
Middle channel



Date: 19.JUN.2019 17:14:12

Highest channel

802.11n-HT40 (Band 1)



Date: 19.JUN.2019 17:09:55

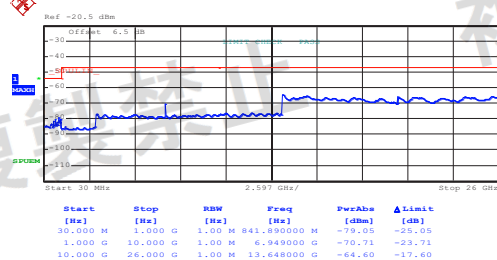
Lowest channel



Date: 19.JUN.2019 17:10:06

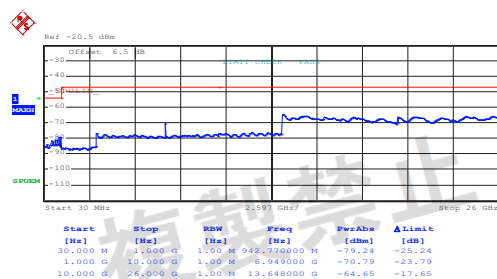
Highest channel

802.11n-HT40 (Band 2)



Date: 19.JUN.2019 17:14:57

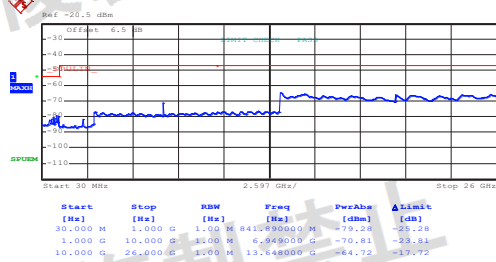
Lowest channel



Date: 19.JUN.2019 17:14:42

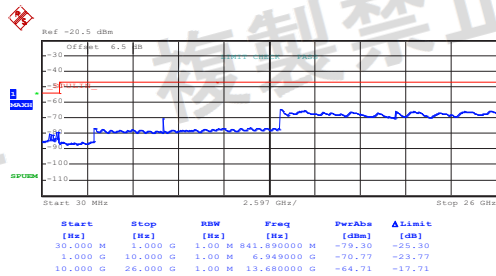
Highest channel

802.11ac-HT20 (Band 1)



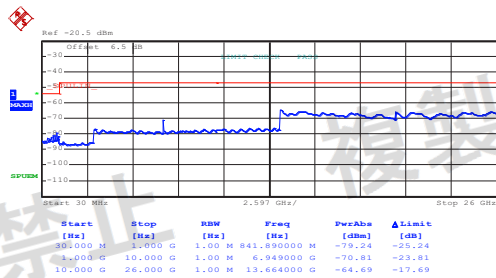
Date: 19.JUN.2019 17:10:41

Lowest channel



Date: 19.JUN.2019 17:10:52

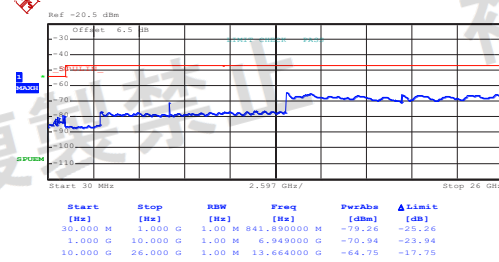
Middle channel



Date: 19.JUN.2019 17:11:02

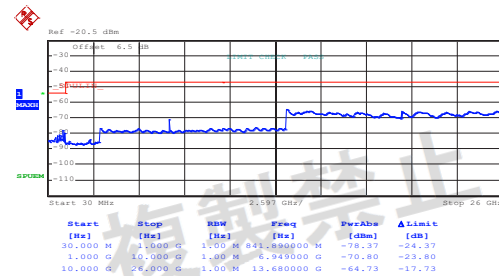
Highest channel

802.11ac-HT20 (Band 2)



Date: 19.JUN.2019 17:13:38

Lowest channel



Date: 19.JUN.2019 17:13:27

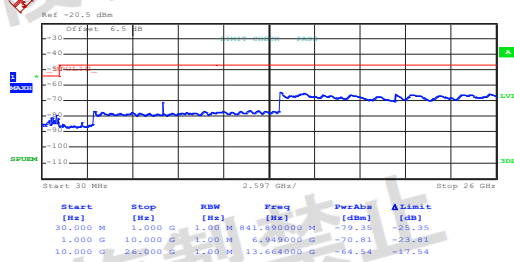
Middle channel



Date: 19.JUN.2019 17:12:26

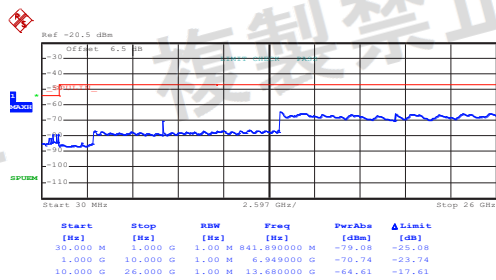
Highest channel

802.11ac-HT40 (Band 1)



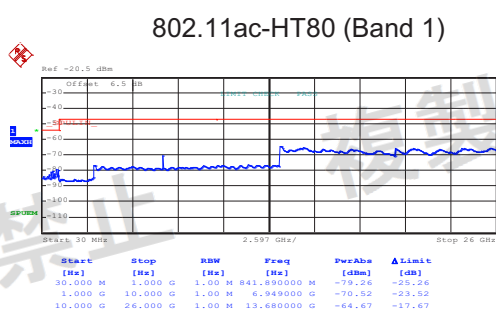
Date: 19.JUN.2019 17:10:30

Lowest channel



Date: 19.JUN.2019 17:10:19

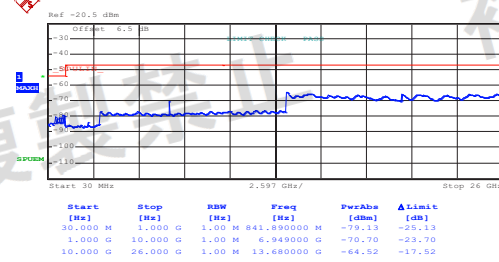
Highest channel



Date: 19.JUN.2019 17:11:14

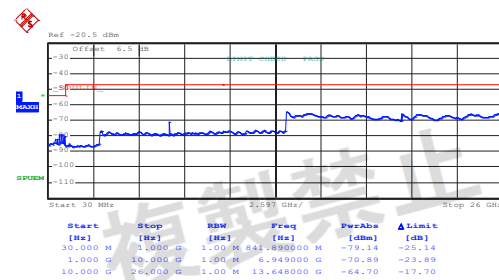
Middle channel

802.11ac-HT40 (Band 2)



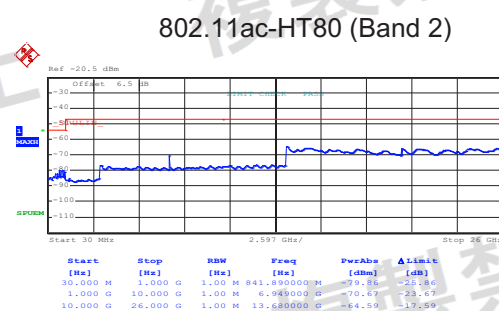
Date: 19.JUN.2019 17:11:39

Lowest channel



Date: 19.JUN.2019 17:11:49

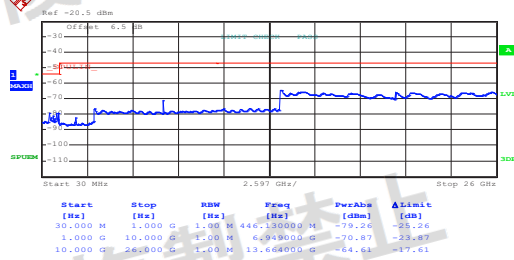
Highest channel



Date: 19.JUN.2019 17:11:27

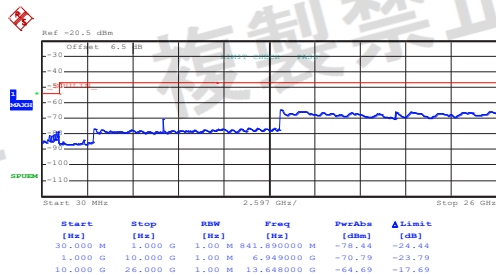
Middle channel

802.11a (Band 3)



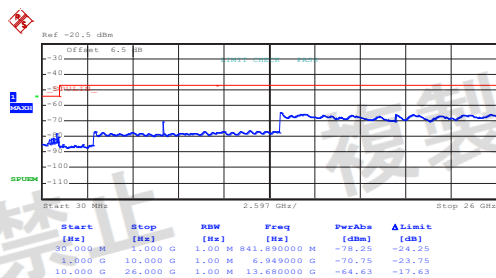
Date: 19.JUN.2019 17:16:27

Lowest channel



Date: 19.JUN.2019 17:16:16

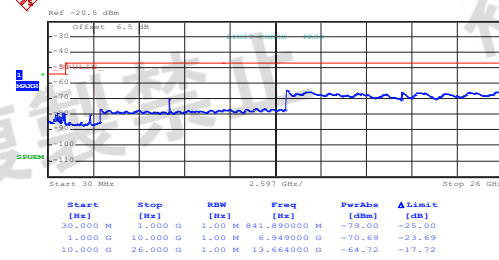
Middle channel



Date: 19.JUN.2019 17:16:02

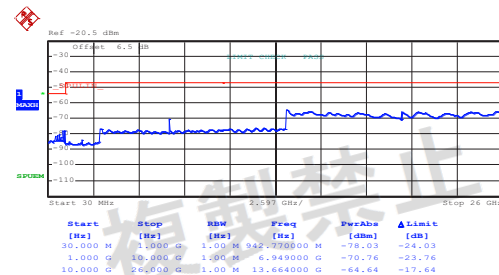
Highest channel

802.11n-HT20 (Band 3)



Date: 19.JUN.2019 17:16:41

Lowest channel



Date: 19.JUN.2019 17:16:55

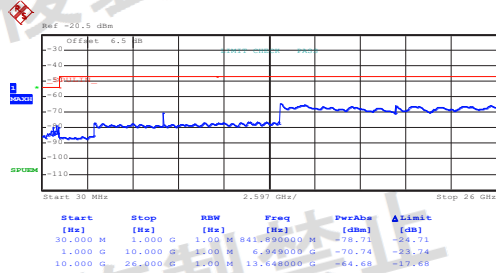
Middle channel



Date: 19.JUN.2019 17:17:05

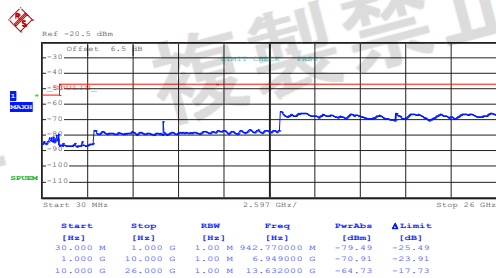
Highest channel

802.11n-HT40 (Band 3)



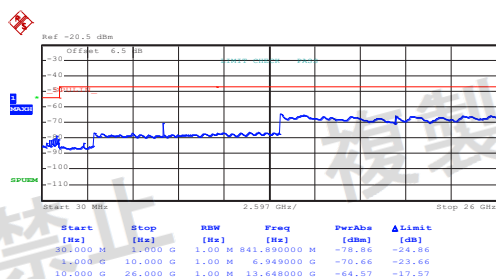
Date: 19.JUN.2019 17:17:41

Lowest channel



Date: 19.JUN.2019 17:17:30

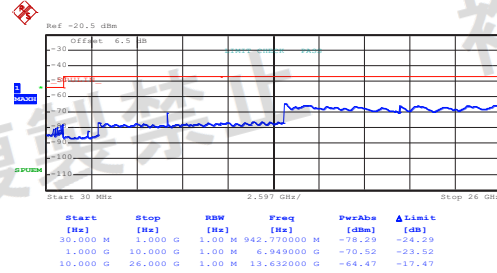
Middle channel



Date: 19.JUN.2019 17:17:18

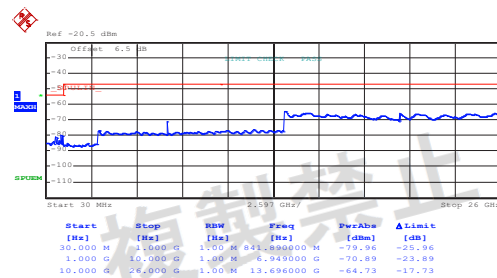
Highest channel

802.11ac-HT20 (Band 3)



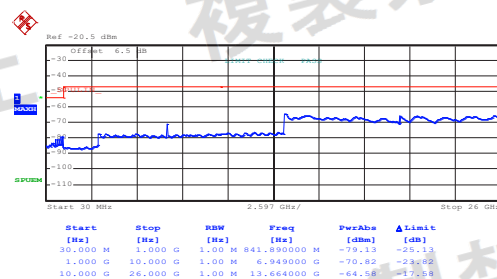
Date: 19.JUN.2019 17:19:06

Lowest channel



Date: 19.JUN.2019 17:18:38

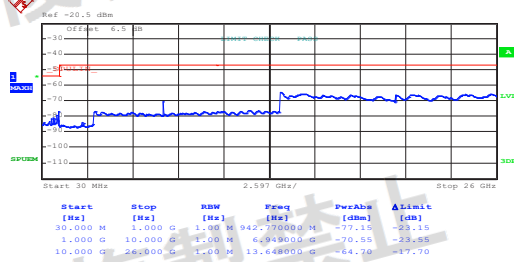
Middle channel



Date: 19.JUN.2019 17:19:17

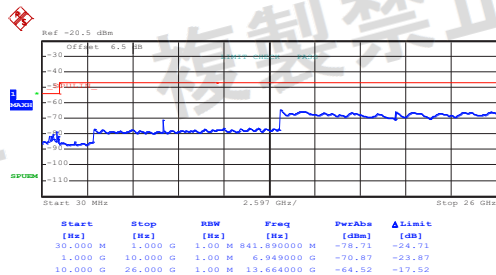
Highest channel

802.11ac-HT40 (Band 3)



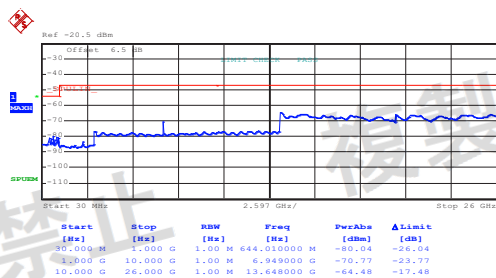
Date: 19.JUN.2019 17:17:54

Lowest channel



Date: 19.JUN.2019 17:18:05

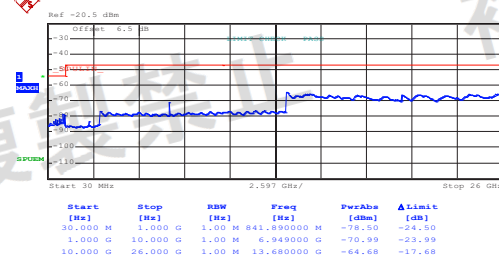
Middle channel



Date: 19.JUN.2019 17:18:17

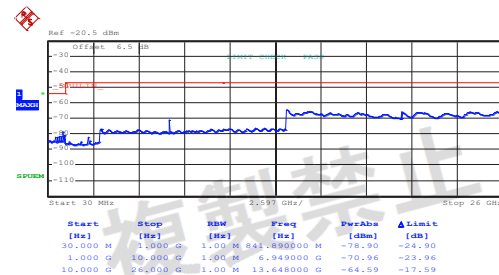
Highest channel

802.11ac-HT80 (Band 3)



Date: 19.JUN.2019 17:19:38

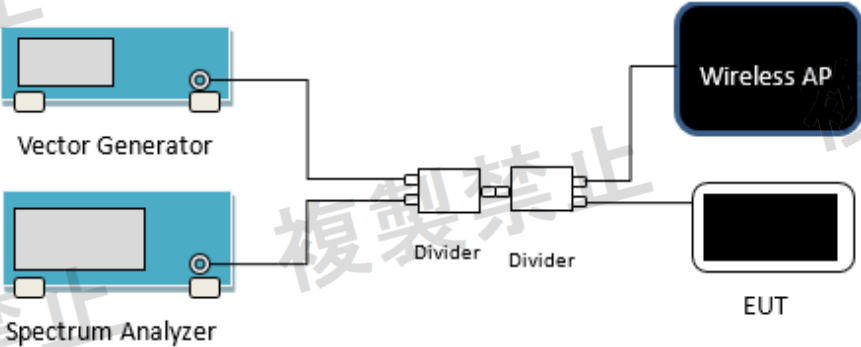
Lowest channel



Date: 19.JUN.2019 17:19:28

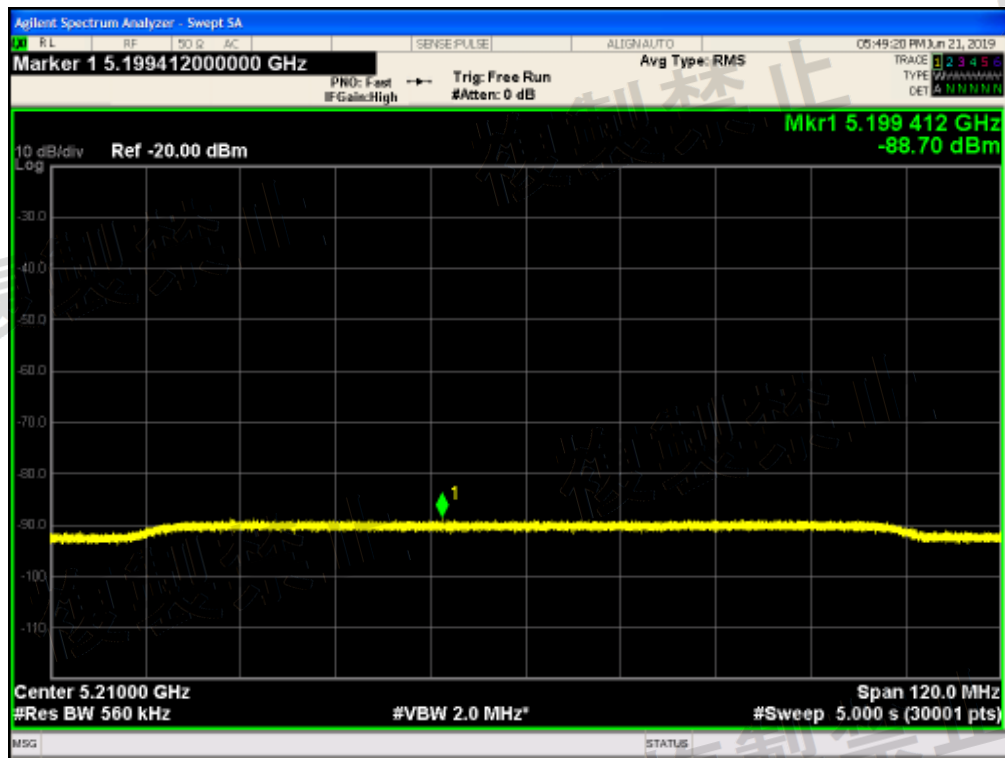
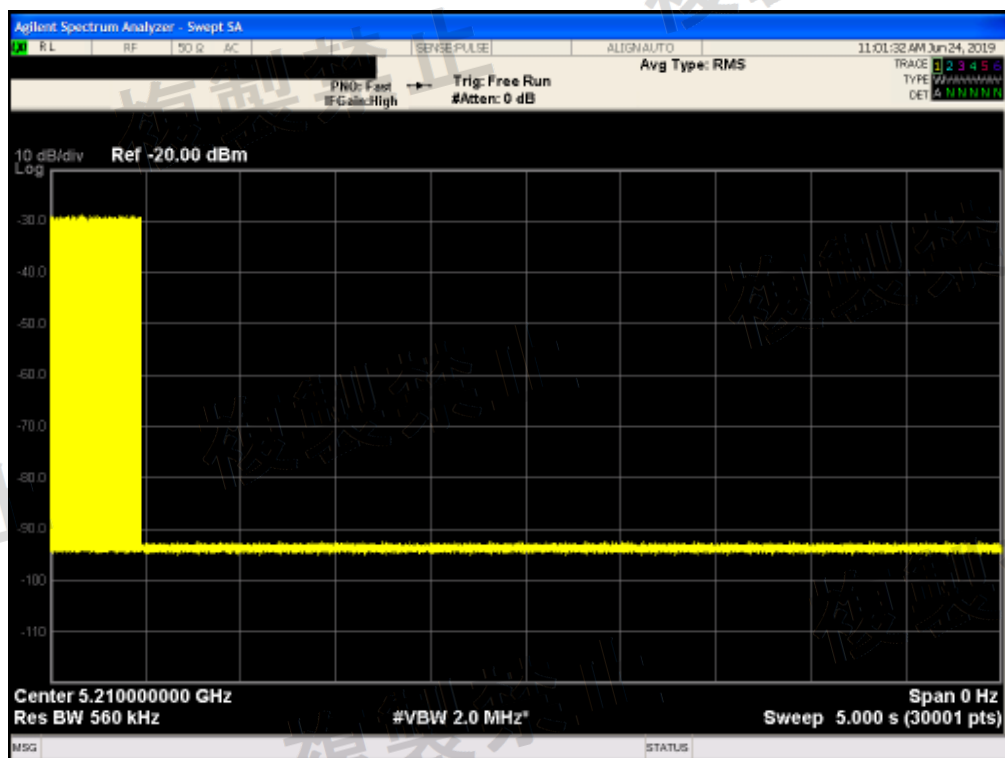
Highest channel

6.11 Carrier sense function

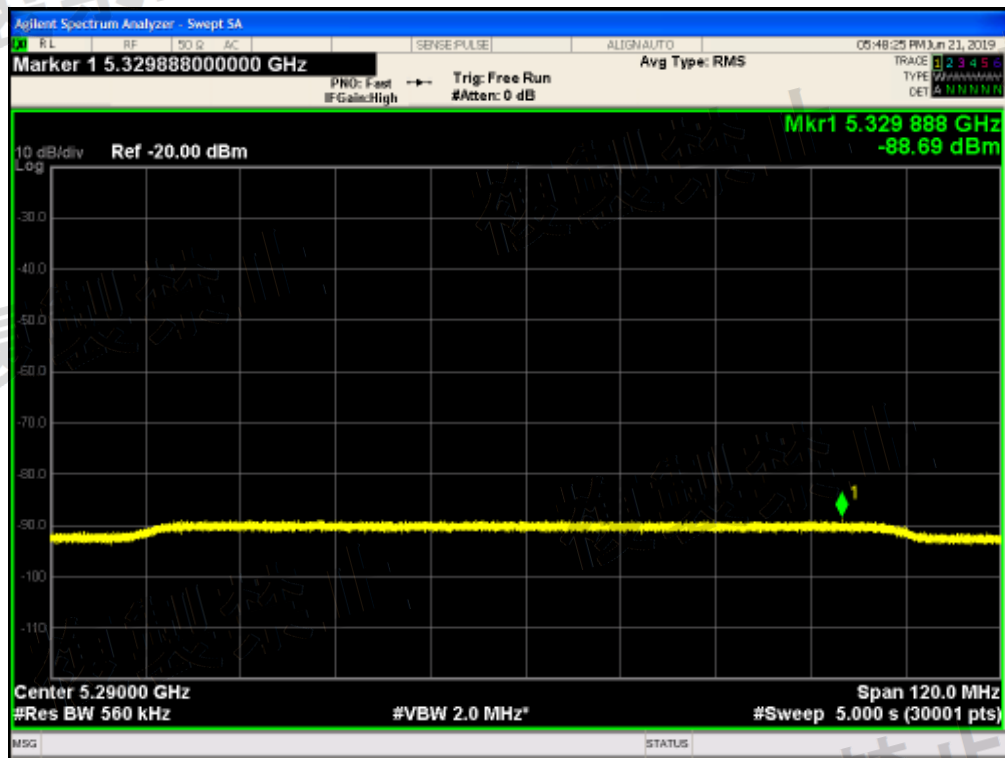
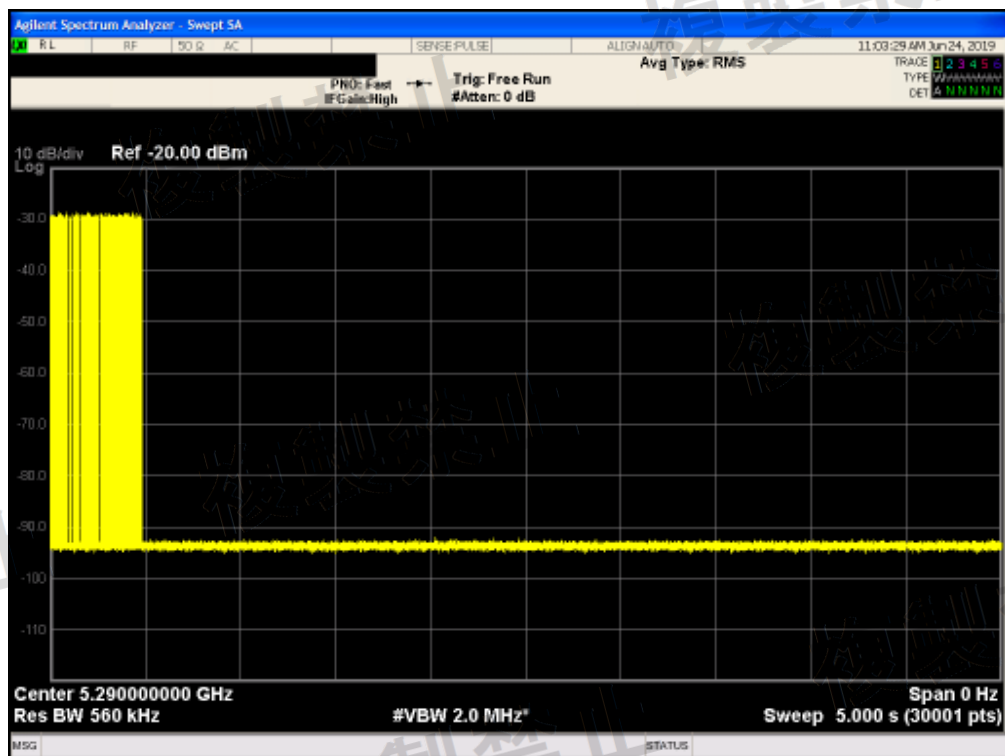
Test Requirement:	Article 2 paragraph 1 item (19)
Test Method:	Appendix No.45 Notification No.88 of MIC, 2004 section 12
Limit:	The radio equipment connected to telecommunication circuit equipment shall be equipped with a device which detects emissions radiated from another radio station and prevents interference, or a device which prevents interference by operation on a receive signal and a signal for diffusion for signal level detection.
Test setup:	 <p>The diagram illustrates the test setup. A Vector Generator and a Spectrum Analyzer are connected to a common input of a Divider. The output of this Divider is connected to the input of a second Divider. The output of the second Divider is connected to both a Wireless AP and the EUT (Equipment Under Test).</p>
Test procedure:	<ol style="list-style-type: none"> 1. Set the EUT link with a peripheral, Wireless AP. 2. Set a signal generator (simulate a radio device which co-exists with EUT) at same frequency channel with a proper signal level (exceeding 100mV/m) output to act as interference signal. 3. Monitor the signal transmission between the EUT and peripheral, while the interference signal presents. The EUT would stop transmitting once it detects interference signal, then record it pass, otherwise, the result is fail.
Test Instruments:	Refer to section 5.7 for details
Test results:	Pass

Test plots as follows:

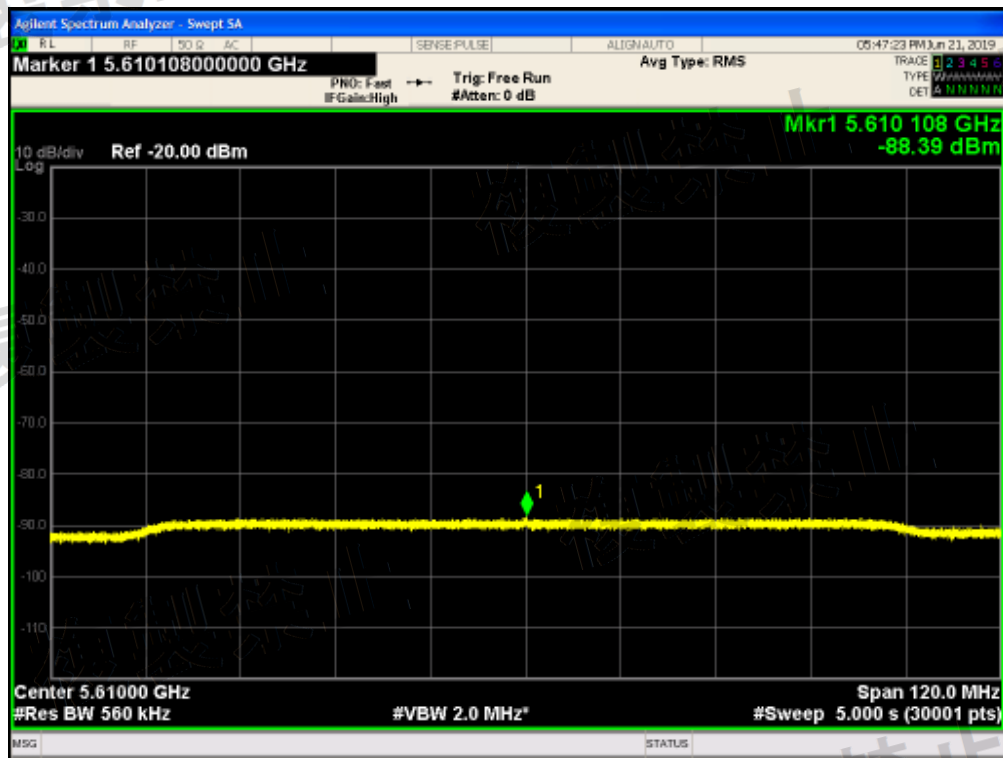
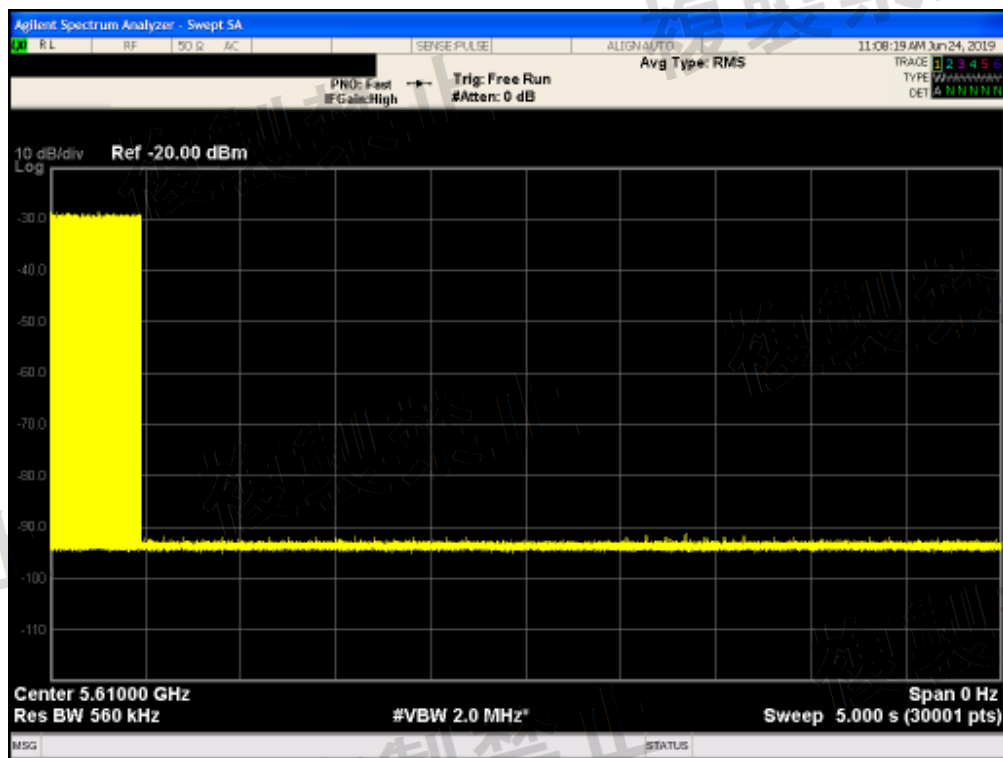
BAND 1:



BAND 2:



BAND 3:



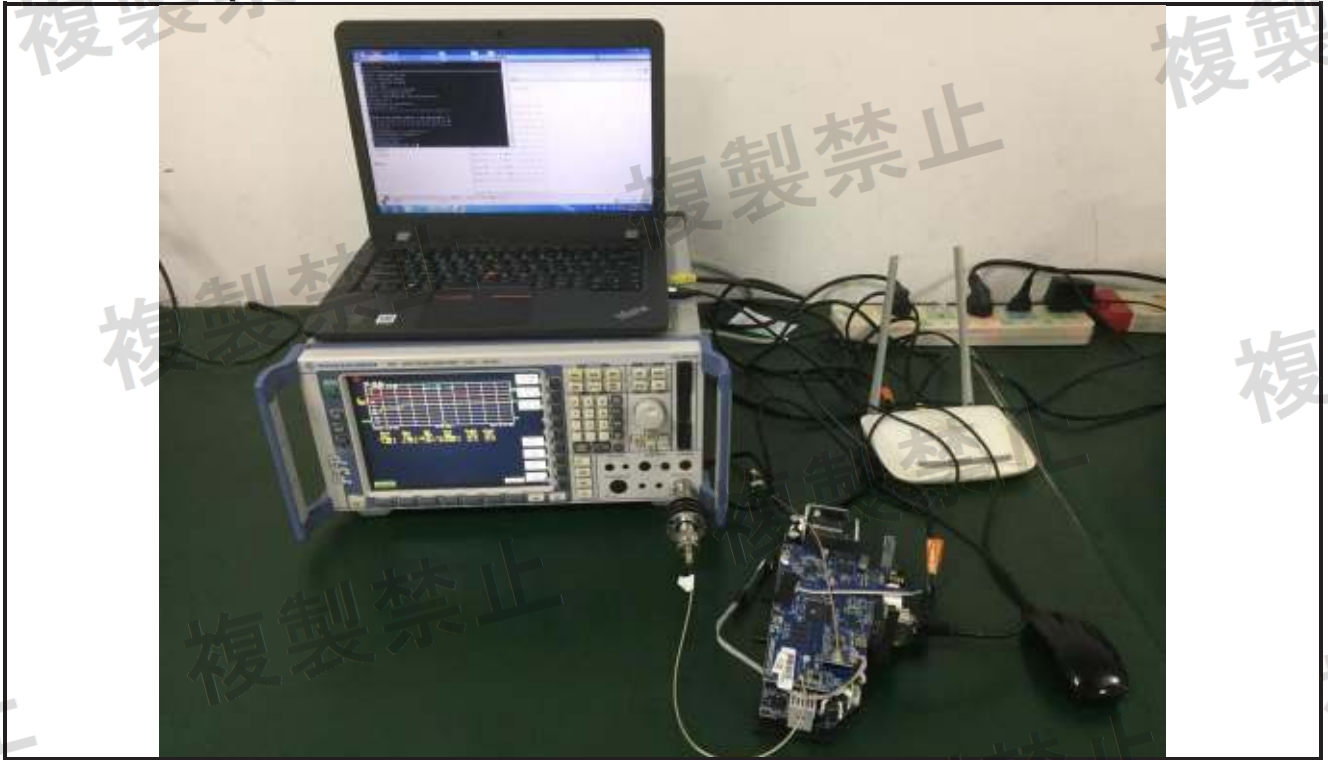
6.12 Dynamic Frequency Selection (Slave)

Test Requirement:	Article 2 paragraph 1 item (19-3) and Article 2 paragraph 1 item (19-3-2)
Test Method:	Ordinance Regulating Radio Equipment No. 18, Article 49-20
Requirement:	WAS/RLAN devices operating in slave mode (slave device) can be operated in a network controlled by a WAN/RLAN device operating in master mode (master device).
Results:	The EUT can be operated in a network controlled by a WAN/RLAN device operating in master mode.

6.13 Other requirements

Test Requirement:	Article 2 paragraph 1 item (19-3)				
Test Method:	Ordinance Regulating Radio Equipment No. 18, Article 49-20				
Requirement:	<ol style="list-style-type: none"> 1. Interference prevention function 2. Shall be of the structure that RF and modulator sections including the antenna cannot be easily be opened. 3. Shall be admitted to be use indoors, the warning information "Indoor Use Only" must be put on the equipment. 4. More than 1 carrier in 1 MHz bandwidth. (Only for OFDM) 				
Results:	<ol style="list-style-type: none"> 1. The only MAC address was used by EUT <table border="1"> <thead> <tr> <th>MAC地址</th><th>IP地址</th></tr> </thead> <tbody> <tr> <td>90-56-82-AF-54-DC</td><td>192.168.1.100</td></tr> </tbody> </table> 2. The RF and modulator section was protected by shielded cover and the structure of EUT uses special screws, which cannot be easily open by the user. 3. "Indoor Use Only" will be put on label 4. For OFDM modulation, the default subcarrier spacing is 312.5 kHz, so, there are about 3 subcarriers in 1 MHz bandwidth, meet the requirement. 	MAC地址	IP地址	90-56-82-AF-54-DC	192.168.1.100
MAC地址	IP地址				
90-56-82-AF-54-DC	192.168.1.100				

7 Test Setup Photo



8 EUT Constructional Details

Reference to the test report No. CCISE190517101

-----End of report-----