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Radio Spectrum TEST REPORT

Applicant:	Peloton Interactive Inc. 125 W 25th St, 11th Floor, New York, NY 10001
Product:	Peloton Tread Tablet
Model No.:	PLTN-TC1VS
Brand Name:	Peloton Console
FCC ID:	2AA3N-TC1VS
Test Method/ Standard:	47 CFR FCC Part 15.407 KDB 789033 D02 v02r01 ANSI C63.10 2013 KDB 662911 D01 v02r01
Test By:	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan



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Revision History

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Summary of Test Data

Test Requirement	Applicable Rule (Section 15.407)	Result
Maximum Conducted Output Power	15.407 (a)(1)/(2)/(3) KDB 789033 D02 v01r02	Pass
Power Spectrum Density	15.407 (a)(1)/(2)/(3) KDB 789033 D02 v01r02	Pass
Minimum Emission Bandwidth	15.407(a)(5), 15.407(e) KDB 789033 D02 v01r02	Pass
Emissions In Restricted Frequency Bands (Radiated emission measurements)	15.407(b), 15.209	Pass
Emission on The Band Edge	15.407(b), 15.209	Pass
Dynamic Frequency Selection (DFS)	15.407(h)(2)	Pass
AC Line Conducted Emission	15.407(b)(6) 15.207	Pass
Antenna requirement	15.203	Pass

1. General Information**1.1 Identification of the EUT**

Product:	Peloton Tread Tablet
Model No.:	PLTN-TC1VS
Operating Frequency:	1. 5180MHz~5240MHz 2. 5260MHz~5320MHz 3. 5500MHz~5700MHz 4. 5745MHz~5825MHz
Channel Number:	1. 4 channels for 5180MHz~5240MHz 2. 2 channels for 5260MHz~5320MHz 3. 5 channels for 5500MHz~5700MHz 4. 2 channels for 5745MHz~5825MHz
Access scheme:	OFDM
Rated Power:	DC 24V from adapter
Power Cord:	N/A
Sample receiving date:	Apr. 10, 2018
Sample condition:	Workable
Test Date(s):	Apr. 10, 2018 ~ Apr. 27, 2018

1.2 Description of the EUT

Modulation mode	Transmit path	
	Chain 0 / Main	Chain 1 / AUX
802.11 a	V	V
802.11 ac (VHT20)	V	V
802.11 ac (VHT40)	V	V
802.11 ac (VHT80)	V	V

1.3 Antenna description**Antenna 1**

Antenna Gain : 3.4 dBi
Antenna Type : PIFA antenna
Connector Type : I-Pex

Antenna 2

Antenna Gain : 3.8 dBi
Antenna Type : PIFA antenna
Connector Type : I-Pex

1.4 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Data cable
Adapter	EDAC	EA10681V-240	N/A	N/A

1.5 Operation mode

(1) TX mode: EUT use 「AMPAK RFTestTool.apk」 entering test mode , and Touchscreen to change different channel.

(2) With individual verifying, the maximum output power were found out 1 Mbps data rate for 802.11a mode, 6 Mbps data rate for 802.11ac(VHT20) mode , 6.5 Mbps data rate for 802.11ac(VHT40) mode , 29.3 Mbps data rate for 802.11ac(VHT80) mode , the final tests were executed under these conditions recorded in this report individually.

802.11a Ch44 Chain0		802.11a Ch60 Chain0		802.11a Ch120 Chain0		802.11a Ch157 Chain0	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
6	5.28	6	5.30	6	4.57	6	5.42
9	5.26	9	5.22	9	4.51	9	5.33
12	5.21	12	5.17	12	4.45	12	5.29
18	5.17	18	5.14	18	4.41	18	5.22
24	5.11	24	5.08	24	4.33	24	5.18
36	5.08	36	5.01	36	4.28	36	5.11
48	5.06	48	4.94	48	4.21	48	5.06
54	4.99	54	4.83	54	4.15	54	5.00

802.11a Ch44 Chain1		802.11a Ch60 Chain1		802.11a Ch120 Chain1		802.11a Ch157 Chain1	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
6	5.56	6	3.60	6	3.50	6	3.15
9	5.52	9	3.55	9	3.44	9	3.08
12	5.44	12	3.48	12	3.36	12	3.04
18	5.41	18	3.42	18	3.30	18	2.97
24	5.33	24	3.39	24	3.22	24	2.94
36	5.24	36	3.34	36	3.14	36	2.83
48	5.12	48	3.28	48	3.08	48	2.72
54	5.06	54	3.21	54	3.01	54	2.68

802.11ac(VHT20) Ch44 Chain0		802.11ac(VHT20) Ch60 Chain0		802.11ac(VHT20) Ch120 Chain0		802.11ac(VHT20) Ch157 Chain0	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
6.5	5.08	6.5	4.99	6.5	4.45	6.5	5.26
13	5.02	13	4.92	13	4.41	13	5.22
19.5	4.94	19.5	4.87	19.5	4.36	19.5	5.17
26	4.91	26	4.82	26	4.28	26	5.13
39	4.84	39	4.78	39	4.24	39	5.04
52	4.77	52	4.74	52	4.13	52	5.00
58.5	4.73	58.5	4.69	58.5	4.09	58.5	4.96
65	4.69	65	4.63	65	4.02	65	4.89

802.11ac(VHT20) Ch44 Chain1		802.11ac(VHT20) Ch60 Chain1		802.11ac(VHT20) Ch120 Chain1		802.11ac(VHT20) Ch157 Chain1	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
6.5	4.26	6.5	3.58	6.5	3.57	6.5	3.08
13	4.20	13	3.52	13	3.52	13	3.04
19.5	4.17	19.5	3.47	19.5	3.45	19.5	2.97
26	4.12	26	3.39	26	3.41	26	2.94
39	4.08	39	3.35	39	3.37	39	2.91
52	4.01	52	3.31	52	3.30	52	2.85
58.5	3.97	58.5	3.26	58.5	3.24	58.5	2.77
65	3.89	65	3.22	65	3.19	65	2.71

802.11ac(VHT20) Ch44 Chain0+1		802.11ac(VHT20) Ch60 Chain0+1		802.11ac(VHT20) Ch120 Chain0+1		802.11ac(VHT20) Ch157 Chain0+1	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
13	5.89	13	5.43	13	5.06	13	5.39
26	5.84	26	5.39	26	5.01	26	5.34
39	5.77	39	5.33	39	4.95	39	5.31
52	5.72	52	5.27	52	4.92	52	5.22
78	5.68	78	5.22	78	4.87	78	5.18
104	5.63	104	5.15	104	4.78	104	5.11
117	5.55	117	5.04	117	4.74	117	5.07
130	5.51	130	5.00	130	4.66	130	5.03

802.11ac(VHT40) Ch38 Chain0		802.11ac(VHT40) Ch54 Chain0		802.11ac(VHT40) Ch118 Chain0		802.11ac(VHT40) Ch151 Chain0	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
13.5	3.42	13.5	3.46	13.5	3.64	13.5	3.73
27	3.37	27	3.41	27	3.55	27	3.68
40.5	3.31	40.5	3.34	40.5	3.51	40.5	3.63
54	3.27	54	3.30	54	3.46	54	3.59
81	3.25	81	3.24	81	3.40	81	3.55
108	3.21	108	3.19	108	3.36	108	3.50
121	3.14	121	3.12	121	3.27	121	3.44
135	3.08	135	3.07	135	3.22	135	3.37

802.11ac(VHT40) Ch38 Chain1		802.11ac(VHT40) Ch54 Chain1		802.11ac(VHT40) Ch118 Chain1		802.11ac(VHT40) Ch151 Chain1	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
13.5	2.22	13.5	1.87	13.5	2.25	13.5	0.50
27	2.14	27	1.82	27	2.18	27	0.44
40.5	2.10	40.5	1.78	40.5	2.11	40.5	0.38
54	2.06	54	1.71	54	2.07	54	0.31
81	2.01	81	1.65	81	2.02	81	0.25
108	1.95	108	1.59	108	1.95	108	0.22
121	1.92	121	1.55	121	1.91	121	0.14
135	1.83	135	1.48	135	1.84	135	0.09

802.11ac(VHT40) Ch38 Chain0+1		802.11ac(VHT40) Ch54 Chain0+1		802.11ac(VHT40) Ch118 Chain0+1		802.11ac(VHT40) Ch151 Chain0+1	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
27	3.86	27	3.76	27	3.99	27	3.48
54	3.81	54	3.71	54	3.92	54	3.44
81	3.75	81	3.68	81	3.84	81	3.39
108	3.69	108	3.62	108	3.81	108	3.34
162	3.62	162	3.58	162	3.75	162	3.28
216	3.58	216	3.54	216	3.69	216	3.22
243	3.51	243	3.49	243	3.64	243	3.18
270	3.47	270	3.41	270	3.57	270	3.13

802.11ac(VHT80) Ch42 Chain0		802.11ac(VHT80) Ch58 Chain0		802.11ac(VHT80) Ch122 Chain0		802.11ac(VHT80) Ch155 Chain0	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
29.3	1.27	29.3	-0.26	29.3	1.24	29.3	1.87
58.5	1.23	58.5	-0.31	58.5	1.19	58.5	1.78
87.8	1.18	87.8	-0.35	87.8	1.14	87.8	1.74
117	1.14	117	-0.40	117	1.10	117	1.70
175.5	1.10	175.5	-0.44	175.5	1.05	175.5	1.66
234	1.05	234	-0.49	234	1.01	234	1.59
263.3	1.02	263.3	-0.55	263.3	0.94	263.3	1.54
292.5	0.98	292.5	-0.59	292.5	0.87	292.5	1.47

802.11ac(VHT80) Ch42 Chain1		802.11ac(VHT80) Ch58 Chain1		802.11ac(VHT80) Ch122 Chain1		802.11ac(VHT80) Ch155 Chain1	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
29.3	0.06	29.3	1.62	29.3	-0.35	29.3	-1.22
58.5	0.01	58.5	1.55	58.5	-0.44	58.5	-1.27
87.8	-0.08	87.8	1.51	87.8	-0.48	87.8	-1.33
117	-0.11	117	1.47	117	-0.55	117	-1.39
175.5	-0.17	175.5	1.41	175.5	-0.61	175.5	-1.43
234	-0.22	234	1.38	234	-0.67	234	-1.48
263.3	-0.26	263.3	1.29	263.3	-0.73	263.3	-1.55
292.5	-0.33	292.5	1.25	292.5	-0.78	292.5	-1.58

802.11ac(VHT80) Ch42 Chain0+1		802.11ac(VHT80) Ch58 Chain0+1		802.11ac(VHT80) Ch122 Chain0+1		802.11ac(VHT80) Ch155 Chain0+1	
Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)	Data rate	AV (dBm)
58.5	2.35	58.5	1.62	58.5	2.25	58.5	2.29
117	2.31	117	1.55	117	2.19	117	2.22
175.5	2.28	175.5	1.51	175.5	2.14	175.5	2.15
234	2.22	234	1.47	234	2.10	234	2.11
351	2.17	351	1.44	351	2.06	351	2.04
468	2.11	468	1.40	468	2.03	468	1.98
526.5	2.08	526.5	1.34	526.5	1.99	526.5	1.95
585	2.03	585	1.29	585	1.92	585	1.92

1.6 Applied test modes and channels

Test items	Mode	Data Rate (Mbps)	Channel	Antenna
Maximum Conducted Output Power	802.11a	6	36,44,48,52,60,64,100, 120,140,149,157,165	Chain0/Chain1
	802.11ac(VHT20)	6.5	36,44,48,52,60,64,100, 120,140,149,157,165	Chain0/Chain1
	802.11ac(VHT40)	13.5	38,46,54,62,102,118,13 4,151,159	Chain0/Chain1
	802.11ac(VHT80)	29.3	42,58,106,122,155	Chain0/Chain1
Power Spectrum Density	802.11a	6	36,44,48,52,60,64,100, 120,140,149,157,165	Chain0/Chain1
	802.11ac(VHT20)	6.5	36,44,48,52,60,64,100, 120,140,149,157,165	Chain0/Chain1
	802.11ac(VHT40)	13.5	38,46,54,62,102,118,13 4,151,159	Chain0/Chain1
	802.11ac(VHT80)	29.3	42,58,106,122,155	Chain0/Chain1
Emission BW	802.11a	6	36,44,48,52,60,64,100, 120,140,149,157,165	Chain0/Chain1
	802.11ac(VHT20)	6.5	36,44,48,52,60,64,100, 120,140,149,157,165	Chain0/Chain1
	802.11ac(VHT40)	13.5	38,46,54,62,102,118,13 4,151,159	Chain0/Chain1
	802.11ac(VHT80)	29.3	42,58,106,122,155	Chain0/Chain1
Radiated spurious Emission 9kHz~1GHz	Worst Case			
Emissions In Restricted Frequency Bands (Radiated emission measurements)	802.11a	6	36,44,48,52,60,64,100, 120,140,149,157,165	Chain0/Chain1
	802.11ac(VHT20)	13	36,44,48,52,60,64,100, 120,140,149,157,165	Chain0+1
	802.11ac(VHT40)	27	38,46,54,62,102,118,13 4,151,159	Chain0+1
	802.11ac(VHT80)	58.5	42,58,106,122,155	Chain0+1
Emission on The Band Edge	802.11a	6	36,44,48,52,60,64,100, 120,140,149,157,165	Chain0/Chain1
	802.11ac(VHT20)	13	36,44,48,52,60,64,100, 120,140,149,157,165	Chain0+1
	802.11ac(VHT40)	27	38,46,54,62,102,118,13 4,151,159	Chain0+1
	802.11ac(VHT80)	58.5	42,58,106,122,155	Chain0+1
AC Line Conducted Emission	Worst Case			

2. Maximum Conducted Output Power

2.1 Operating environment

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure	1008	hPa

2.2 Limit for maximum output power

Operating Frequency (MHz)	Conducted output power limit
5150~5725	< 0.25 W (24 dBm)
5725~5850	< 1 W (30 dBm)

Operating Frequency (MHz)	Maximum E.I.R.P. limit
5150~5725	< 1 W (30 dBm)
5725~5850	< 4 W (36 dBm)

2.3 Measuring instrument setting

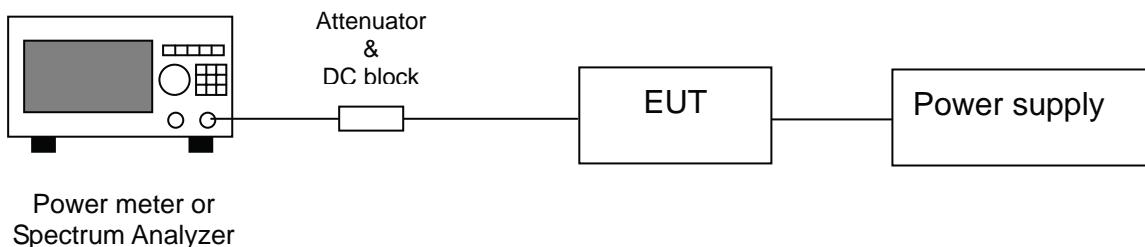
Power meter for Nominal Bandwidth less than 65MHz	
Power meter	Setting
Bandwidth	65MHz bandwidth is greater than the EUT emission bandwidth
Detector	Average

2.4 Test procedure

Test procedures refer to clause E) 3) b) measurement using a gated RF average power meter of KDB 789033 D02 v01r02

Test procedures refer to clause E) 2) b) Method SA-1 of KDB 789033 D02 v01r02

2.5 Test diagram



2.6 Test results
SISO

Mode	Channel	Frequency (MHz)	Output Power (AV)		Antenna Gain (dBi)	E.I.R.P. (dBm)	Limit of Conducted Power (dBm)	Margin (dB)	Limit of E.I.R.P. (dBm)	Margin (dB)
			dBm	mW						
802.11a (Chain0)	36	5180	5.02	3.18	3.4	8.42	24.00	-18.98	30.00	-21.58
	44	5220	5.28	3.37	3.4	8.68	24.00	-18.72	30.00	-21.32
	48	5240	5.29	3.38	3.4	8.69	24.00	-18.71	30.00	-21.31
	52	5260	5.49	3.54	3.4	8.89	24.00	-18.51	30.00	-21.11
	60	5300	5.30	3.39	3.4	8.70	24.00	-18.70	30.00	-21.30
	64	5320	4.83	3.04	3.4	8.23	24.00	-19.17	30.00	-21.77
	100	5500	4.46	2.79	3.4	7.86	24.00	-19.54	30.00	-22.14
	120	5600	4.57	2.86	3.4	7.97	24.00	-19.43	30.00	-22.03
	140	5700	5.42	3.48	3.4	8.82	24.00	-18.58	30.00	-21.18
	149	5745	5.62	3.65	3.4	9.02	30.00	-24.38	36.00	-26.98
	157	5785	5.42	3.48	3.4	8.82	30.00	-24.58	36.00	-27.18
	165	5825	5.23	3.33	3.4	8.63	30.00	-24.77	36.00	-27.37
802.11a (Chain1)	36	5180	5.43	3.49	3.8	9.23	24.00	-18.57	30.00	-20.77
	44	5220	5.56	3.60	3.8	9.36	24.00	-18.44	30.00	-20.64
	48	5240	5.54	3.58	3.8	9.34	24.00	-18.46	30.00	-20.66
	52	5260	5.47	3.52	3.8	9.27	24.00	-18.53	30.00	-20.73
	60	5300	3.60	2.29	3.8	7.40	24.00	-20.40	30.00	-22.60
	64	5320	3.35	2.16	3.8	7.15	24.00	-20.65	30.00	-22.85
	100	5500	3.35	2.16	3.8	7.15	24.00	-20.65	30.00	-22.85
	120	5600	3.50	2.24	3.8	7.30	24.00	-20.50	30.00	-22.70
	140	5700	2.79	1.90	3.8	6.59	24.00	-21.21	30.00	-23.41
	149	5745	2.63	1.83	3.8	6.43	30.00	-27.37	36.00	-29.57
	157	5785	3.15	2.07	3.8	6.95	30.00	-26.85	36.00	-29.05
	165	5825	3.58	2.28	3.8	7.38	30.00	-26.42	36.00	-28.62

MIMO

Mode	Ch	Freq (MHz)	Output Power (AV)		Total Power (AV)		Antenna 0 Gain (dBi)	Antenna 1 Gain (dBi)	E.I.R.P. (dBm)	Limit of Conducted Power (dBm)	Margin (dB)	Limit of E.I.R.P. (dBm)	Margin (dB)
			Chain 0	Chain 1									
			dBm	dBm	mW	dBm							
802.11ac (VHT20)	36	5180	4.90	4.41	5.85	7.67	3.4	3.8	11.27	24.00	-16.33	30.00	-18.73
	44	5220	5.08	4.26	5.89	7.70	3.4	3.8	11.29	24.00	-16.30	30.00	-18.71
	48	5240	5.20	4.27	5.98	7.77	3.4	3.8	11.35	24.00	-16.23	30.00	-18.65
	52	5260	5.33	4.20	6.04	7.81	3.4	3.8	11.39	24.00	-16.19	30.00	-18.61
	60	5300	4.99	3.58	5.43	7.35	3.4	3.8	10.92	24.00	-16.65	30.00	-19.08
	64	5320	4.71	3.28	5.09	7.06	3.4	3.8	10.63	24.00	-16.94	30.00	-19.37
	100	5500	4.22	3.25	4.75	6.77	3.4	3.8	10.35	24.00	-17.23	30.00	-19.65
	120	5600	4.45	3.57	5.06	7.04	3.4	3.8	10.63	24.00	-16.96	30.00	-19.37
	140	5700	5.29	2.77	5.27	7.22	3.4	3.8	10.77	24.00	-16.78	30.00	-19.23
	149	5745	5.53	2.60	5.39	7.32	3.4	3.8	10.86	30.00	-22.68	36.00	-25.14
	157	5785	5.26	3.08	5.39	7.31	3.4	3.8	10.87	30.00	-22.69	36.00	-25.13
	165	5825	5.05	3.47	5.42	7.34	3.4	3.8	10.91	30.00	-22.66	36.00	-25.09
802.11ac (VHT40)	38	5190	3.42	2.22	3.86	5.87	3.4	3.8	9.45	24.00	-18.13	30.00	-20.55
	46	5230	3.80	1.86	3.93	5.95	3.4	3.8	9.51	24.00	-18.05	30.00	-20.49
	54	5270	3.46	1.87	3.76	5.75	3.4	3.8	9.32	24.00	-18.25	30.00	-20.68
	62	5310	3.33	1.47	3.55	5.51	3.4	3.8	9.07	24.00	-18.49	30.00	-20.93
	102	5510	2.63	1.21	3.15	4.99	3.4	3.8	8.56	24.00	-19.01	30.00	-21.44
	118	5590	3.64	2.25	3.99	6.01	3.4	3.8	9.58	24.00	-17.99	30.00	-20.42
	134	5670	3.31	0.83	3.35	5.26	3.4	3.8	8.80	24.00	-18.74	30.00	-21.20
	151	5755	3.73	0.50	3.48	5.42	3.4	3.8	8.95	30.00	-24.58	36.00	-27.05
	159	5795	3.90	1.34	3.82	5.82	3.4	3.8	9.36	30.00	-24.18	36.00	-26.64
802.11ac (VHT80)	42	5210	1.27	0.06	2.35	3.72	3.4	3.8	7.29	24.00	-20.28	30.00	-22.71
	58	5290	-0.26	-1.67	1.62	2.10	3.4	3.8	5.68	24.00	-21.90	30.00	-24.32
	106	5530	0.51	-0.49	2.02	3.05	3.4	3.8	6.63	24.00	-20.95	30.00	-23.37
	122	5610	1.24	-0.35	2.25	3.53	3.4	3.8	7.10	24.00	-20.47	30.00	-22.90
	155	5775	1.87	-1.22	2.29	3.60	3.4	3.8	7.14	30.00	-26.40	36.00	-28.86

3. Power Spectrum Density

3.1 Operating environment

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure	1008	hPa

3.2 Limit for power spectrum density

Operating Frequency (MHz)	Power density limit
5150~5725	< 11 dBm/1MHz
5725~5850	< 30 dBm/500kHz

3.3 Measuring instrument setting

Spectrum analyzer settings (5150~5725MHz)	
Spectrum Analyzer function	Setting
Detector	RMS
RBW	=1MHz
VBW	≥3 MHz
Sweep	Auto couple
Trace	Average
Span	Encompass the 26 dB EBW
Attenuation	Auto
Sweep point	≥ 2 Span / RBW

Spectrum analyzer settings (5725~5850MHz)	
Spectrum Analyzer function	Setting
Detector	RMS
RBW	=100kHz
VBW	≥300 kHz
Sweep	Auto couple
Trace	Average
Span	Encompass the 6 dB EBW
Attenuation	Auto
Sweep point	≥ 2 Span / RBW

3.4 Test procedure

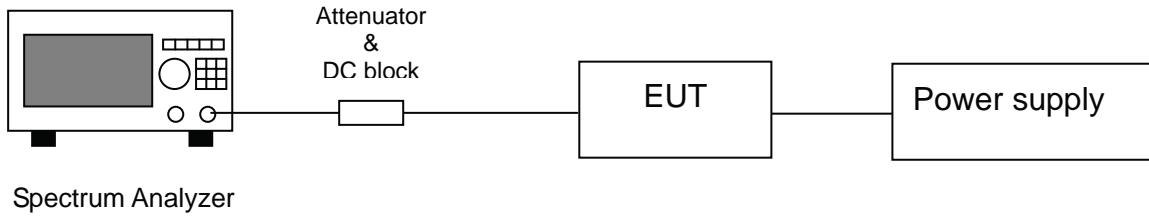
Set relevant parameter according to clause 4.3.

Trace average at least 100 traces in power averaging mode.

Compute power by integrating the spectrum across the 26 dB or 6dB EBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW band edges.

If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement. The RBW is 100 kHz. So, we will add 6.989 to the results.

3.5 Test diagram



3.6 Test results

SISO

Mode	Channel	Frequency (MHz)	PSD		Result	Limit (dBm)	Margin (dB)
			(dBm)	(mW)			
802.11a	36	5180	-4.791	0.33	-4.791	11	-15.79
	44	5220	-4.459	0.36	-4.459	11	-15.46
	48	5240	-4.308	0.37	-4.308	11	-15.31
	52	5260	-3.919	0.41	-3.919	11	-14.92
	60	5300	-4.361	0.37	-4.361	11	-15.36
	64	5320	-4.829	0.33	-4.829	11	-15.83
	100	5500	-5.194	0.30	-5.194	11	-16.19
	120	5600	-5.110	0.31	-5.11	11	-16.11
	140	5700	-3.980	0.40	-3.98	11	-14.98
	149	5745	-6.371	0.23	-6.371	30	-36.37
	157	5785	-5.904	0.26	-5.904	30	-35.90
	165	5825	-6.374	0.23	-6.374	30	-36.37
802.11a	36	5180	-4.429	0.36	-4.429	11	-15.43
	44	5220	-4.225	0.38	-4.225	11	-15.23
	48	5240	-4.275	0.37	-4.275	11	-15.28
	52	5260	-4.260	0.37	-4.26	11	-15.26
	60	5300	-6.096	0.25	-6.096	11	-17.10
	64	5320	-6.475	0.23	-6.475	11	-17.48
	100	5500	-6.533	0.22	-6.533	11	-17.53
	120	5600	-6.303	0.23	-6.303	11	-17.30
	140	5700	-6.851	0.21	-6.851	11	-17.85
	149	5745	-8.462	0.14	-8.462	30	-38.46
	157	5785	-8.207	0.15	-8.207	30	-38.21
	165	5825	-7.536	0.18	-7.536	30	-37.54

MIMO

Mode	Channel	Frequency (MHz)	PSD (dBm)		Total PSD		MIMO Correction	Result	Limit (dBm)	Margin (dB)
			chain0	chain1	mW	dBm				
802.11ac (VHT20)	36	5180	-5.142	-5.435	0.59	-2.28	3.01	0.73	11	-10.27
	44	5220	-4.829	-5.683	0.60	-2.22	3.01	0.79	11	-10.21
	48	5240	-4.9	-5.723	0.59	-2.28	3.01	0.73	11	-10.27
	52	5260	-4.708	-5.726	0.61	-2.18	3.01	0.83	11	-10.17
	60	5300	-4.941	-6.453	0.55	-2.62	3.01	0.39	11	-10.61
	64	5320	-4.863	-6.506	0.55	-2.60	3.01	0.41	11	-10.59
	100	5500	-5.813	-6.705	0.48	-3.23	3.01	-0.22	11	-11.22
	120	5600	-5.359	-6.293	0.53	-2.79	3.01	0.22	11	-10.78
	140	5700	-4.864	-7.198	0.52	-2.87	3.01	0.14	11	-10.86
	149	5745	-6.419	-8.822	0.36	-4.45	3.01	-1.44	30	-31.44
	157	5785	-6.806	-8.434	0.35	-4.53	3.01	-1.52	30	-31.52
	165	5825	-7.135	-8.236	0.34	-4.64	3.01	-1.63	30	-31.63
802.11ac (VHT40)	38	5190	-9.133	-10.218	0.22	-6.63	3.01	-3.62	11	-14.62
	46	5230	-9.056	-11.16	0.20	-6.97	3.01	-3.96	11	-14.96
	54	5270	-9.294	-11.113	0.20	-7.10	3.01	-4.09	11	-15.09
	62	5310	-9.52	-11.267	0.19	-7.30	3.01	-4.29	11	-15.29
	102	5510	-10.273	-11.773	0.16	-7.95	3.01	-4.94	11	-15.94
	118	5590	-9.087	-10.24	0.22	-6.62	3.01	-3.60	11	-14.60
	134	5670	-9.543	-11.9	0.18	-7.55	3.01	-4.54	11	-15.54
	151	5755	-10.759	-12.144	0.15	-8.39	3.01	-5.38	30	-35.38
	159	5795	-10.607	-12.096	0.15	-8.28	3.01	-5.27	30	-35.27
	42	5210	-14.429	-15.602	0.06	-11.97	3.01	-8.96	11	-19.96
802.11ac (VHT80)	58	5290	-16.19	-17.44	0.04	-13.76	3.01	-10.75	11	-21.75
	106	5530	-15.366	-16.179	0.05	-12.74	3.01	-9.73	11	-20.73
	122	5610	-14.955	-15.967	0.06	-12.42	3.01	-9.41	11	-20.41
	155	5775	-15.157	-17.113	0.05	-13.02	3.01	-10.01	30	-40.01

Note: MIMO Correction: $10\log(N_{ant})$

RBW Correction: $10\log(500\text{kHz}/1\text{MHz})$ or $10\log(500\text{kHz}/100\text{kHz})$

Note: The values of 802.11a Chain1 have modified with Reference level Offset(37.49 dB=30.5(cable loss) + 10Log(500/100)).

Chain0 : Power Spectral Density @ 802.11a Mode Ch36**Chain0 : Power Spectral Density @ 802.11a Mode Ch44****Chain0 : Power Spectral Density @ 802.11a Mode Ch48**

Chain0 : Power Spectral Density @ 802.11a Mode Ch52

Chain0 : Power Spectral Density @ 802.11a Mode Ch60

Chain0 : Power Spectral Density @ 802.11a Mode Ch64


Chain0 : Power Spectral Density @ 802.11a Mode Ch100

Chain0 : Power Spectral Density @ 802.11a Mode Ch120

Chain0 : Power Spectral Density @ 802.11a Mode Ch140


Chain0 : Power Spectral Density @ 802.11a Mode Ch149**Chain0 : Power Spectral Density @ 802.11a Mode Ch157****Chain0 : Power Spectral Density @ 802.11a Mode Ch165**

Chain1 : Power Spectral Density @ 802.11a Mode Ch36



Chain1 : Power Spectral Density @ 802.11a Mode Ch44



Chain1 : Power Spectral Density @ 802.11a Mode Ch48



Chain1 : Power Spectral Density @ 802.11a Mode Ch52**Chain1 : Power Spectral Density @ 802.11a Mode Ch60****Chain1 : Power Spectral Density @ 802.11a Mode Ch64**

Chain1 : Power Spectral Density @ 802.11a Mode Ch100**Chain1 : Power Spectral Density @ 802.11a Mode Ch120****Chain1 : Power Spectral Density @ 802.11a Mode Ch140**

Chain1 : Power Spectral Density @ 802.11a Mode Ch149**Chain1 : Power Spectral Density @ 802.11a Mode Ch157****Chain1 : Power Spectral Density @ 802.11a Mode Ch165**

Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch36

Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch44

Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch48


Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch52**Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch60****Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch64**

Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch100**Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch120****Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch140**

Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch149

Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch157

Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch165


Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch36



Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch44



Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch48



Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch52



Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch60



Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch64



Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch100**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch120****Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch140**

Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch149

Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch157

Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch165


Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch38



Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch46



Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch54



Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch62



Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch102



Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch118



Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch134

Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch151

Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch159


Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch38**Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch46****Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch54**

Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch62**Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch102****Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch118**

Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch134

Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch151

Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch159


Chain0 : Power Spectral Density @ 802.11ac(VHT80) Mode Ch42



Chain0 : Power Spectral Density @ 802.11ac(VHT80) Mode Ch58



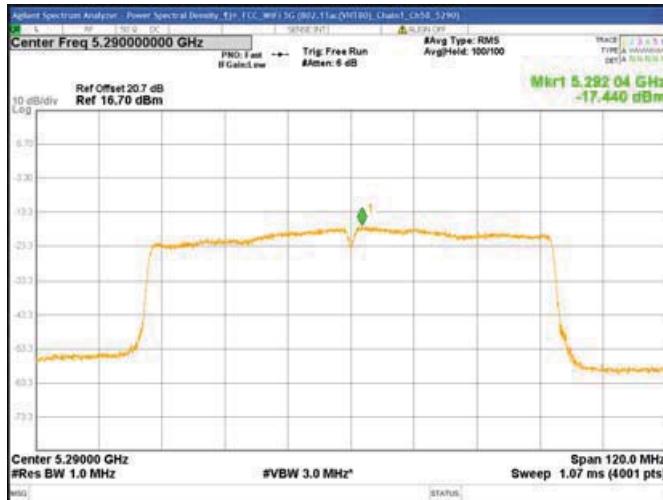
Chain0 : Power Spectral Density @ 802.11ac(VHT80) Mode Ch106



Chain0 : Power Spectral Density @ 802.11ac(VHT80) Mode Ch122

Chain0 : Power Spectral Density @ 802.11ac(VHT80) Mode Ch155

Chain1 : Power Spectral Density @ 802.11ac(VHT80) Mode Ch42


Chain1 : Power Spectral Density @ 802.11ac(VHT80) Mode Ch58**Chain1 : Power Spectral Density @ 802.11ac(VHT80) Mode Ch106****Chain1 : Power Spectral Density @ 802.11ac(VHT80) Mode Ch122**

Chain1 : Power Spectral Density @ 802.11ac(VHT80) Mode Ch155



4. Minimum Bandwidth

4.1 Operating environment

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure	1008	hPa
Requirement & Test method	15.407(a)(5) 15.407(e) KDB 789033 D02 v01r02	

4.2 Limit for minimum emission bandwidth.

Within the 5.15-5.25 GHz, the 26 dB bandwidth is for reporting purpose only.

Within the 5.725-5.85 GHz, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz..

4.3 Measuring instrument setting

For 5.15-5.25 GHz

Spectrum analyzer settings	
Spectrum Analyzer function	Setting
Detector	Peak
RBW	Approximately 1% of the EBW
VBW	> RBW
Trace mode	Max hold

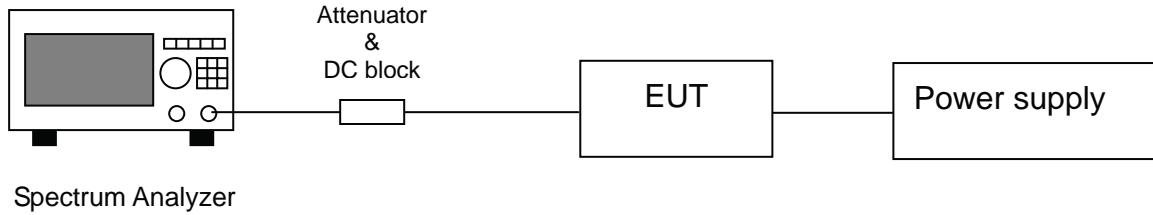
For 5.725-5.85 GHz

Spectrum analyzer settings	
Spectrum Analyzer function	Setting
Detector	Peak
RBW	100kHz
VBW	≥ 3 x RBW
Sweep	Auto couple
Trace mode	Max hold

4.4 Test procedure

1. The transmitter output was connected to the spectrum analyzer.
2. Test was performed in accordance with section C of KDB 789033 D02 v01r02.
3. For the 5.725-5.85 GHz, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
4. For the 5.15-5.25 GHz and 5.725-5.85 GHz, measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

4.5 Test diagram



4.6 Test results

SISO

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a Chain0	36	5180		21.78	N/A	Pass
	44	5220		21.99		Pass
	48	5240		21.95		Pass
	52	5260		21.94		Pass
	60	5300		21.87		Pass
	64	5320		21.86		Pass
	100	5500		21.78		Pass
	120	5600		22.04		Pass
	140	5700		21.88		Pass
	149	5745	16.3		>0.5	Pass
	157	5785	16.32			Pass
	165	5825	16.32			Pass
802.11a Chain1	36	5180		21.85	N/A	Pass
	44	5220		21.75		Pass
	48	5240		21.76		Pass
	52	5260		21.93		Pass
	60	5300		21.93		Pass
	64	5320		22.02		Pass
	100	5500		22.02		Pass
	120	5600		21.97		Pass
	140	5700		21.76		Pass
	149	5745	16.33		>0.5	Pass
	157	5785	16.31			Pass
	165	5825	16.33			Pass

SISO

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11ac (VHT20) Chain0	36	5180		22.46	N/A	Pass
	44	5220		22.25		Pass
	48	5240		22.17		Pass
	52	5260		21.91		Pass
	60	5300		22.16		Pass
	64	5320		21.83		Pass
	100	5500		22.18		Pass
	120	5600		21.99		Pass
	140	5700		22.05		Pass
	149	5745	17.58		>0.5	Pass
	157	5785	17.55			Pass
	165	5825	17.56			Pass
802.11ac (VHT20) Chain1	36	5180		22.13	N/A	Pass
	44	5220		21.86		Pass
	48	5240		21.87		Pass
	52	5260		21.99		Pass
	60	5300		22.08		Pass
	64	5320		21.97		Pass
	100	5500		21.9		Pass
	120	5600		21.94		Pass
	140	5700		22.24		Pass
	149	5745	17.58		>0.5	Pass
	157	5785	17.53			Pass
	165	5825	17.31			Pass
802.11ac (VHT40) Chain0	38	5190		41.3	N/A	Pass
	46	5230		41.11		Pass
	54	5270		41.3		Pass
	62	5310		40.56		Pass
	102	5510		41.41		Pass
	118	5590		40.75		Pass
	134	5670		40.76		Pass
	151	5755	35.8		>0.5	Pass
	159	5795	35.76			Pass

SISO

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11ac (VHT40) Chain1	38	5190		41.26	N/A	Pass
	46	5230		41.66		Pass
	54	5270		40.57		Pass
	62	5310		40.83		Pass
	102	5510		42.1		Pass
	118	5590		40.57		Pass
	134	5670		40.66		Pass
	151	5755	36.31		>0.5	Pass
	159	5795	36.32			Pass
802.11ac (VHT80) Chain0	42	5210		80.59	N/A	Pass
	58	5290		80.72		Pass
	106	5530		83.86		Pass
	122	5610		83.14		Pass
	155	5775	75.44		>0.5	Pass
802.11ac (VHT80) Chain1	42	5210		80.53	N/A	Pass
	58	5290		80.75		Pass
	106	5530		80.26		Pass
	122	5610		80.69		Pass
	155	5775	75.23		>0.5	Pass

Chain0 : 26dB Bandwidth @ 802.11a Mode Ch36

Chain0 : 26dB Bandwidth @ 802.11a Mode Ch44

Chain0 : 26dB Bandwidth @ 802.11a Mode Ch48

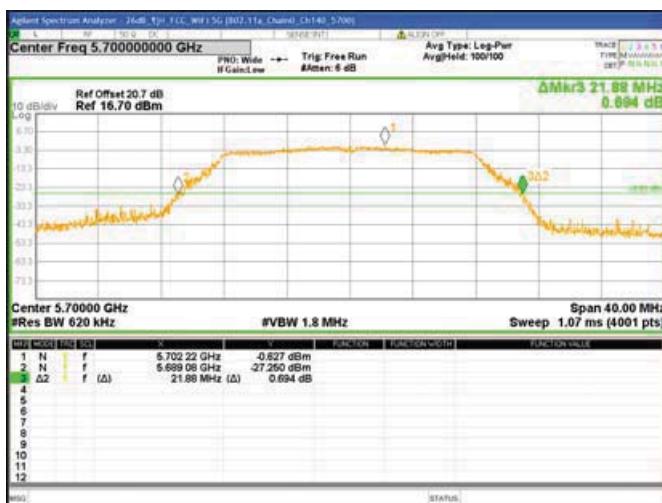

Chain0 : 26dB Bandwidth @ 802.11a Mode Ch52

Chain0 : 26dB Bandwidth @ 802.11a Mode Ch60

Chain0 : 26dB Bandwidth @ 802.11a Mode Ch64


Chain0 : 26dB Bandwidth @ 802.11a Mode Ch100

Chain0 : 26dB Bandwidth @ 802.11a Mode Ch120

Chain0 : 26dB Bandwidth @ 802.11a Mode Ch140


Chain1 : 26dB Bandwidth @ 802.11a Mode Ch36

Chain1 : 26dB Bandwidth @ 802.11a Mode Ch44

Chain1 : 26dB Bandwidth @ 802.11a Mode Ch48


Chain1 : 26dB Bandwidth @ 802.11a Mode Ch52

Chain1 : 26dB Bandwidth @ 802.11a Mode Ch60

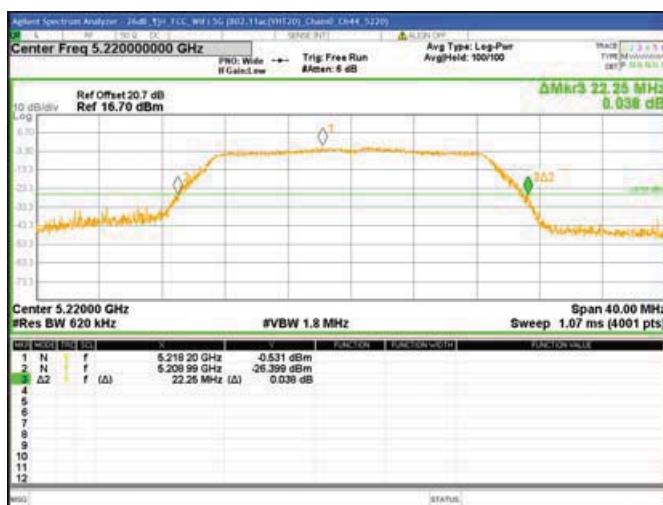
Chain1 : 26dB Bandwidth @ 802.11a Mode Ch64


Chain1 : 26dB Bandwidth @ 802.11a Mode Ch100

Chain1 : 26dB Bandwidth @ 802.11a Mode Ch120

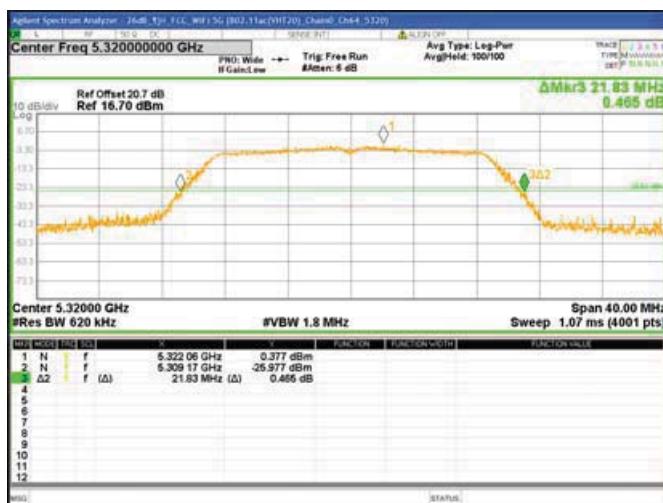
Chain1 : 26dB Bandwidth @ 802.11a Mode Ch140


Chain0 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch36

Chain0 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch44

Chain0 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch48


Chain0 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch52

Chain0 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch60

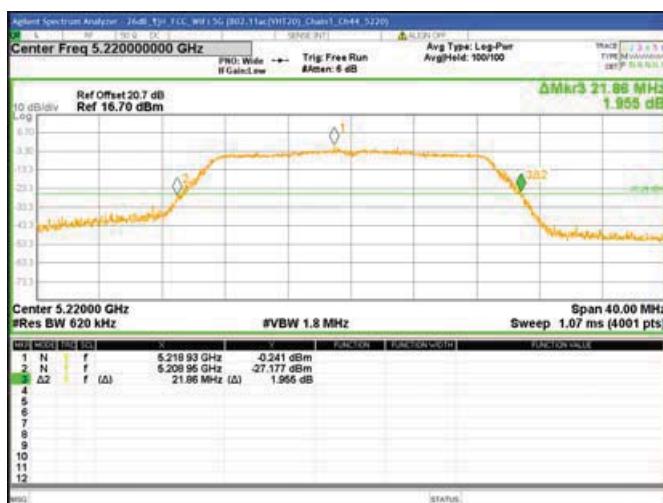
Chain0 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch64


Chain0 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch100

Chain0 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch120

Chain0 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch140


Chain1 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch36

Chain1 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch44

Chain1 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch48


Chain1 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch52

Chain1 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch60

Chain1 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch64

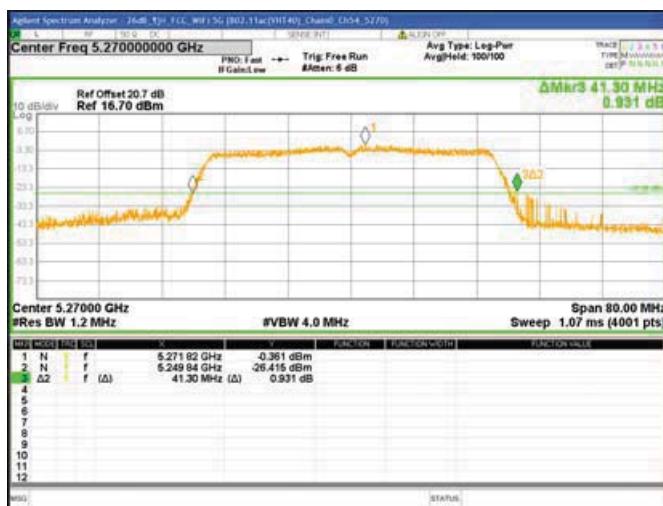

Chain1 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch100

Chain1 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch120

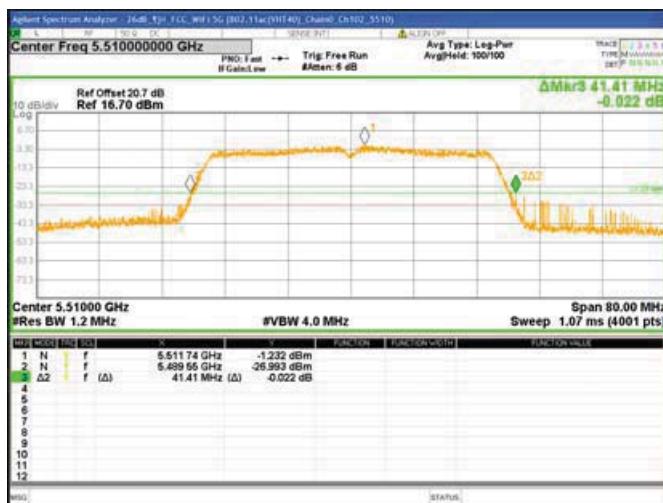
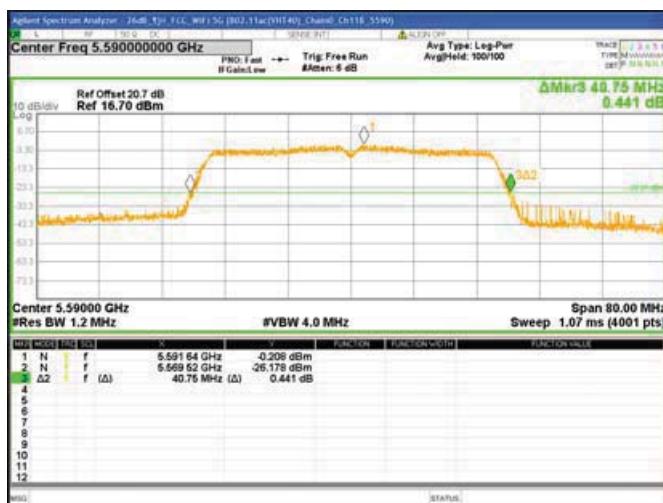
Chain1 : 26dB Bandwidth @ 802.11ac(VHT20) Mode Ch140


Chain0 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch38

Chain0 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch46

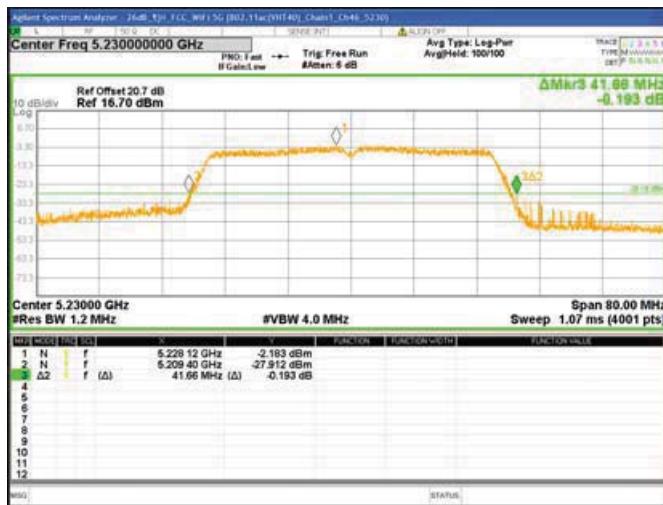
Chain0 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch54


Chain0 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch62

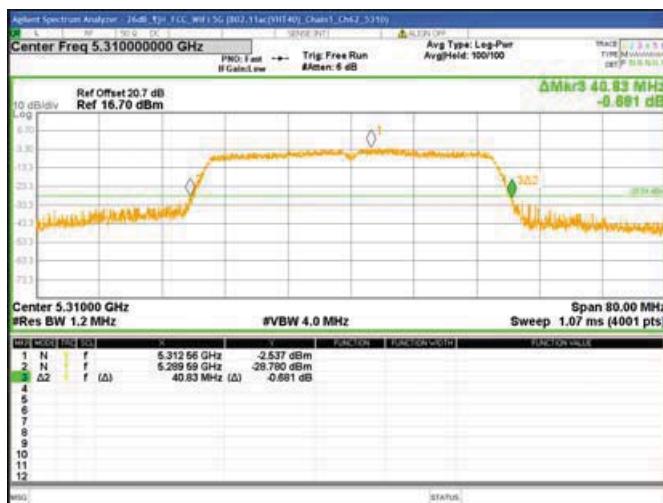
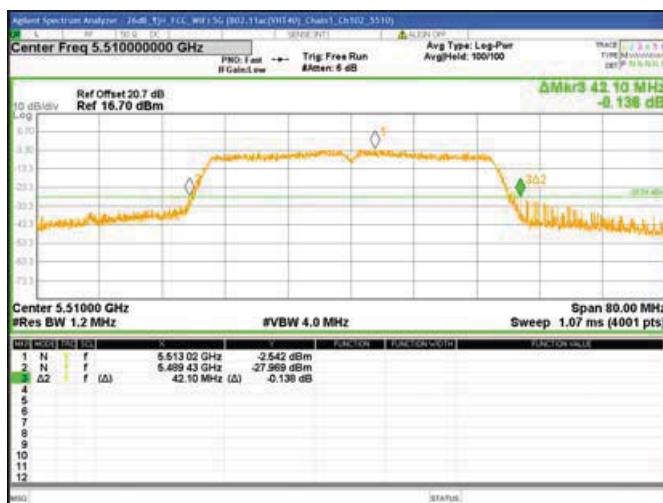
Chain0 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch102

Chain0 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch118


Chain0 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch134

Chain1 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch38

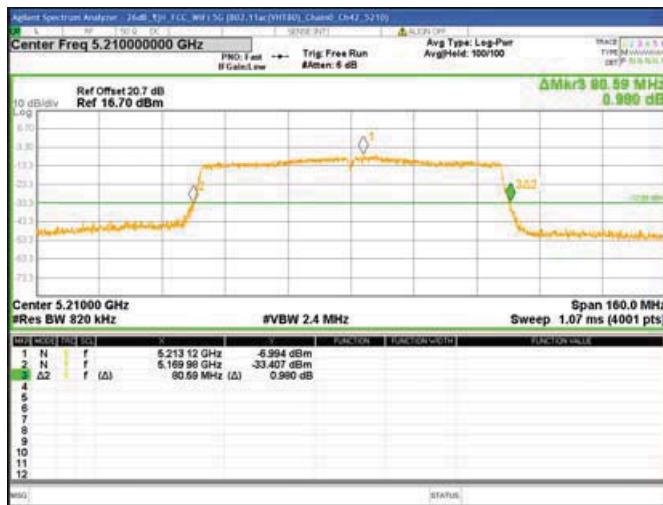
Chain1 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch46


Chain1 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch54

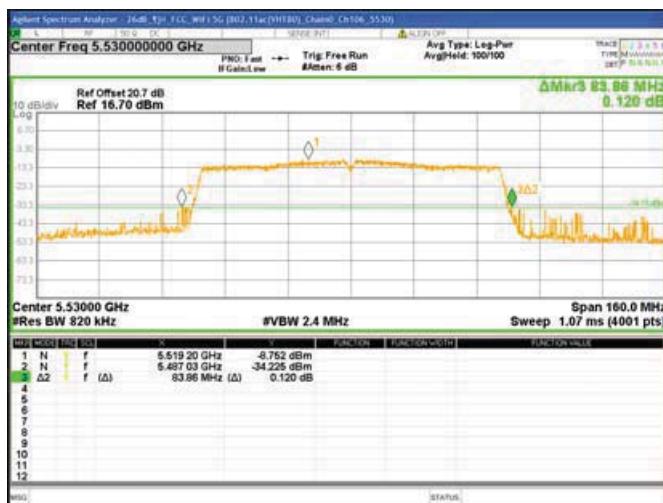
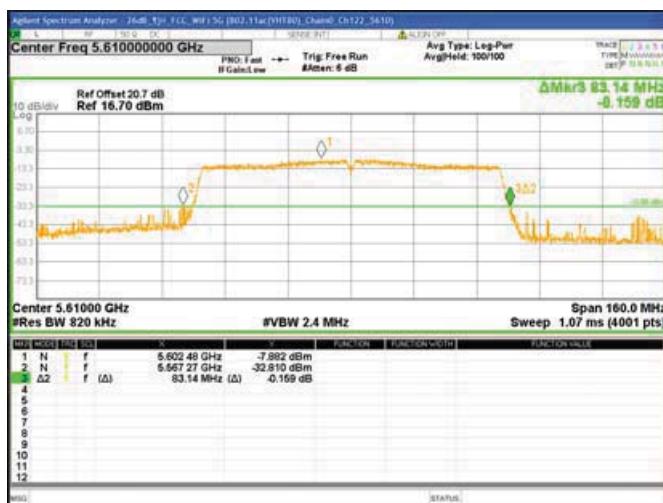
Chain1 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch62

Chain1 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch102


Chain1 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch118

Chain1 : 26dB Bandwidth @ 802.11ac(VHT40) Mode Ch134

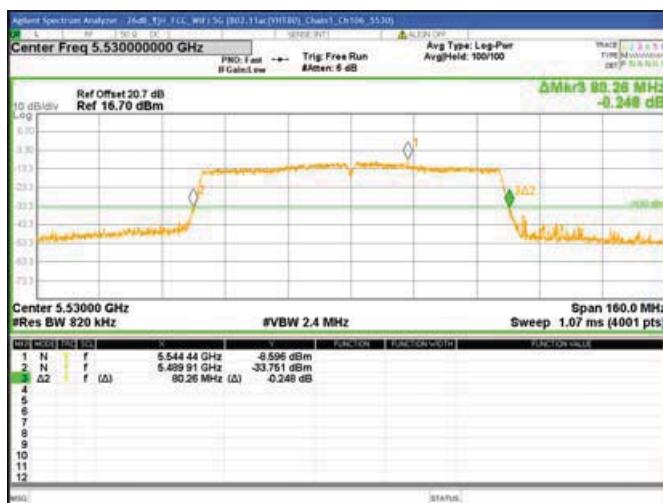
Chain0 : 26dB Bandwidth @ 802.11ac(VHT80) Mode Ch42


Chain0 : 26dB Bandwidth @ 802.11ac(VHT80) Mode Ch58

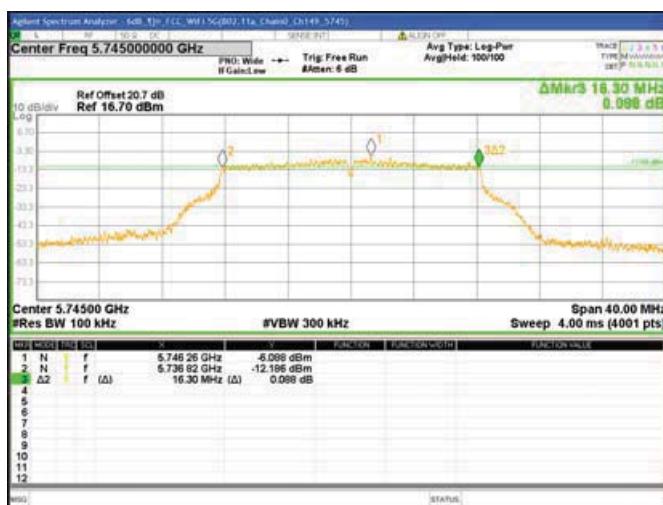
Chain0 : 26dB Bandwidth @ 802.11ac(VHT80) Mode Ch106

Chain0 : 26dB Bandwidth @ 802.11ac(VHT80) Mode Ch122


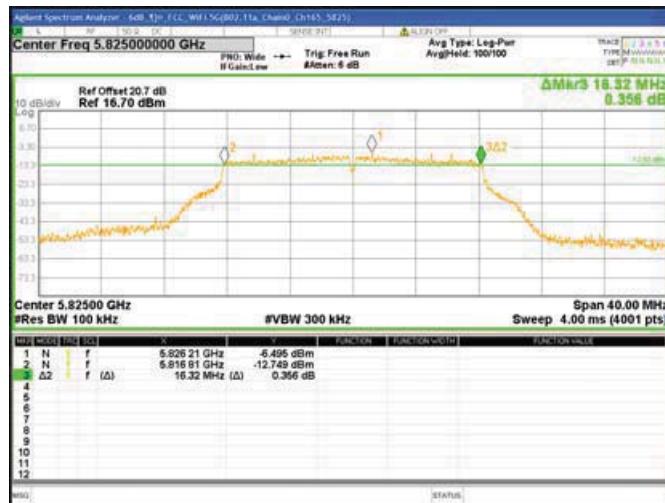
Chain1 : 26dB Bandwidth @ 802.11ac(VHT80) Mode Ch42

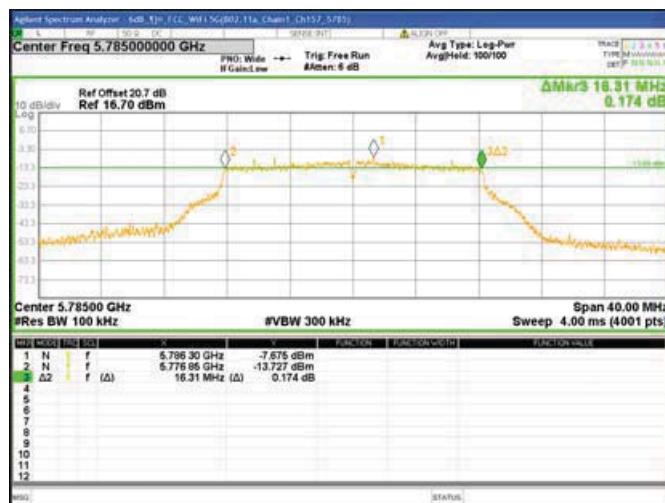
Chain1 : 26dB Bandwidth @ 802.11ac(VHT80) Mode Ch58

Chain1 : 26dB Bandwidth @ 802.11ac(VHT80) Mode Ch106


Chain1 : 26dB Bandwidth @ 802.11ac(VHT80) Mode Ch122

Chain0 : 6dB Bandwidth @ 802.11a Mode Ch149

Chain0 : 6dB Bandwidth @ 802.11a Mode Ch157


Chain0 : 6dB Bandwidth @ 802.11a Mode Ch165

Chain1 : 6dB Bandwidth @ 802.11a Mode Ch149

Chain1 : 6dB Bandwidth @ 802.11a Mode Ch157


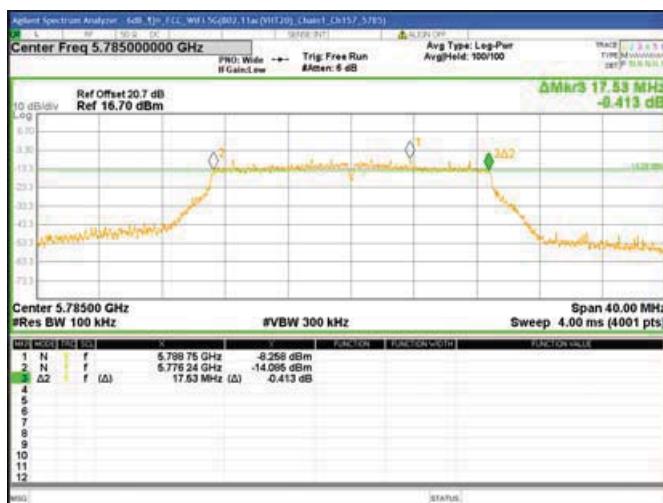
Chain1 : 6dB Bandwidth @ 802.11a Mode Ch165

Chain0 : 6dB Bandwidth @ 802.11ac(VHT20) Mode Ch149

Chain0 : 6dB Bandwidth @ 802.11ac(VHT20) Mode Ch157


Chain0 : 6dB Bandwidth @ 802.11ac(VHT20) Mode Ch165

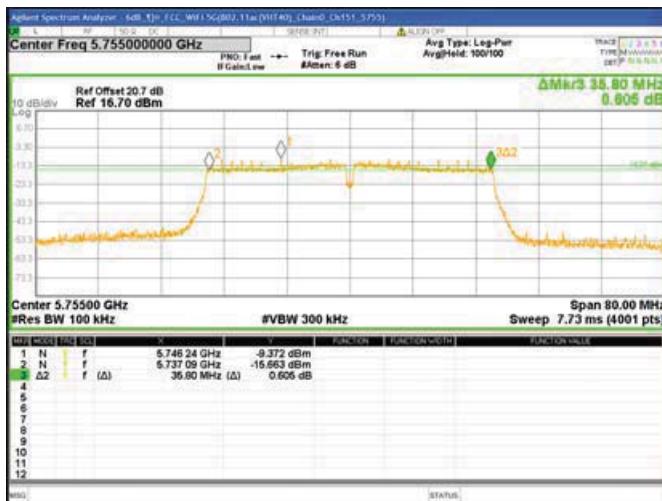
Chain1 : 6dB Bandwidth @ 802.11ac(VHT20) Mode Ch149

Chain1 : 6dB Bandwidth @ 802.11ac(VHT20) Mode Ch157


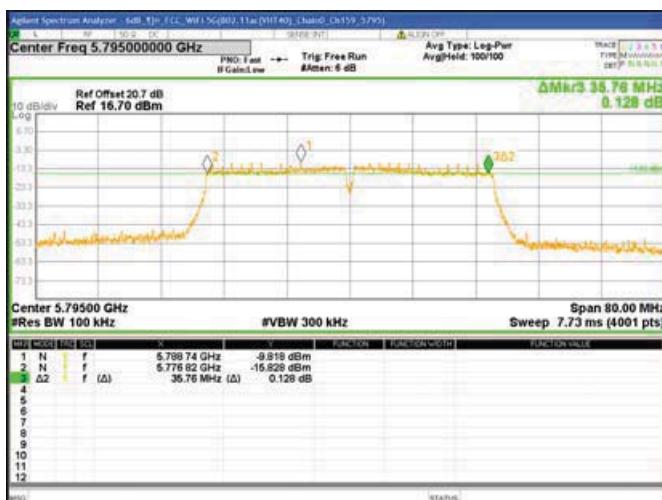
Chain1 : 6dB Bandwidth @ 802.11ac(VHT20) Mode Ch165



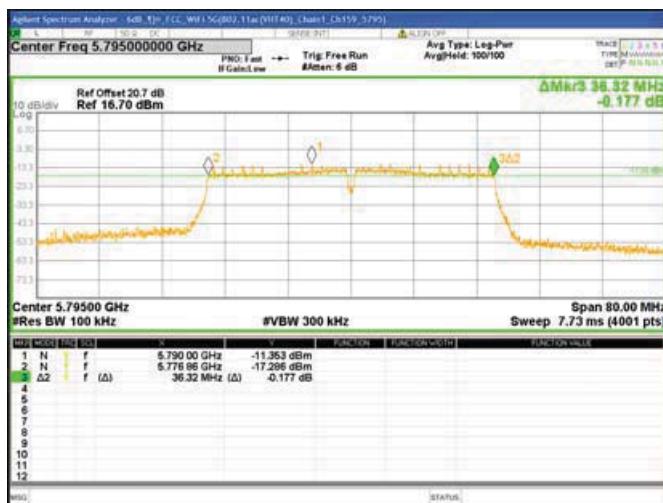
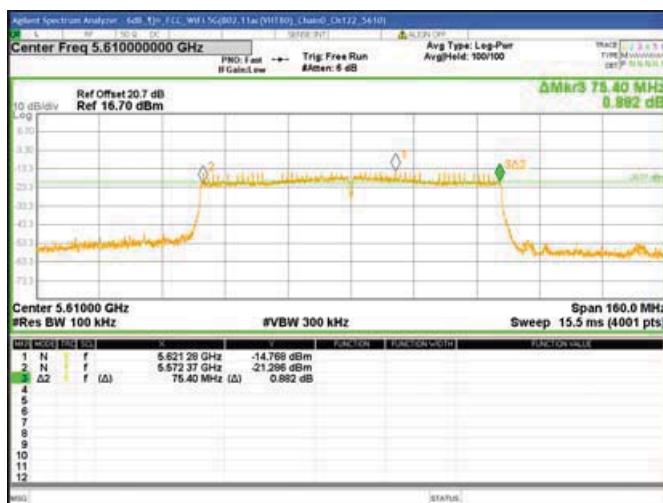
Chain0 : 6dB Bandwidth @ 802.11ac(VHT40) Mode Ch151

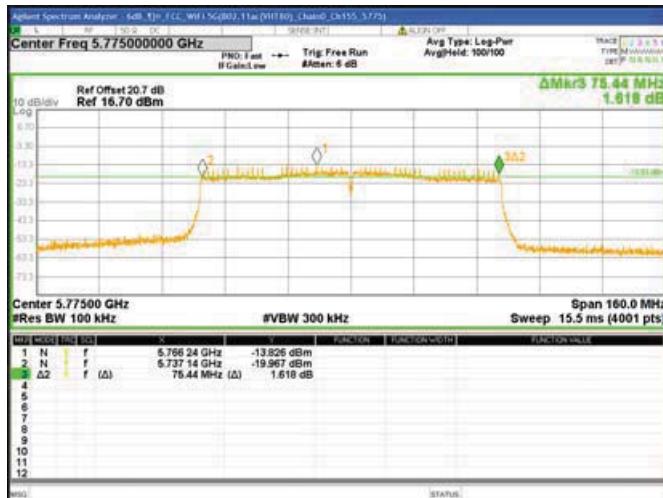
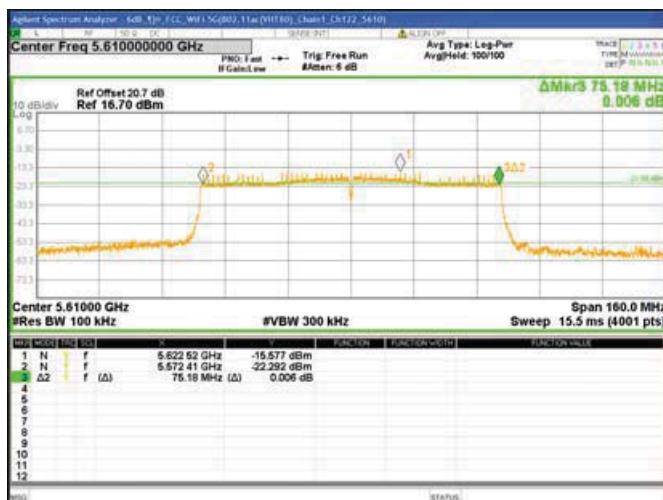


Chain0 : 6dB Bandwidth @ 802.11ac(VHT40) Mode Ch159



Chain1 : 6dB Bandwidth @ 802.11ac(VHT40) Mode Ch151

Chain1 : 6dB Bandwidth @ 802.11ac(VHT40) Mode Ch159

Chain0 : 6dB Bandwidth @ 802.11ac(VHT80) Mode Ch122


Chain0 : 6dB Bandwidth @ 802.11ac(VHT80) Mode Ch155

Chain1 : 6dB Bandwidth @ 802.11ac(VHT80) Mode Ch122

Chain1 : 6dB Bandwidth @ 802.11ac(VHT80) Mode Ch155
