▣ Test Plots (26 dB Bandwidth)

802.11n(HT40) UNII Band	802.11ac(VHT40) UNII Band
	

802.11ac(VHT80) UNII Band


[Ant.2]

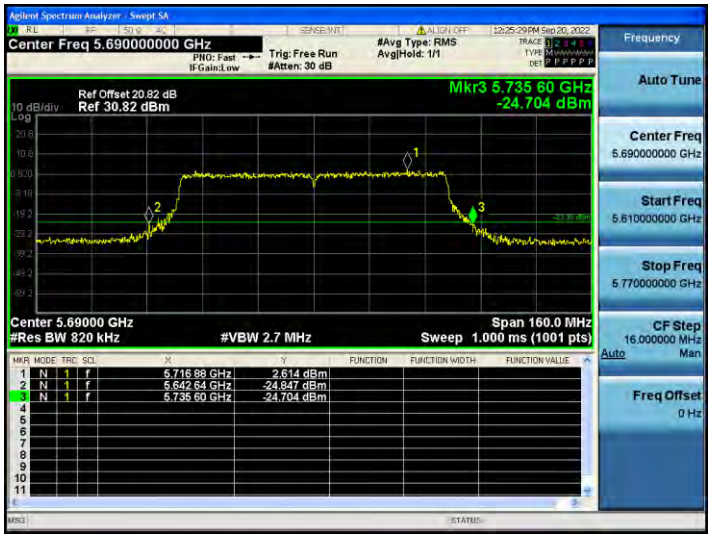
▣ Test Plots (26 dB Bandwidth)

802.11a UNII Band	802.11n(HT20) UNII Band
	

802.11ac(VHT20) UNII Band


▣ Test Plots (26 dB Bandwidth)

802.11n(HT40) UNII Band	802.11ac(VHT40) UNII Band
	

802.11ac(VHT80) UNII Band


10.7.2 6 dB Bandwidth

[Ant.1]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5728.24	3.24	> 0.5
802.11n(HT20)				5728.88	3.88	> 0.5
802.11ac(VHT20)				5728.88	3.88	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.92	2.92	> 0.5
802.11ac(VHT40)				5728.24	3.24	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5728.40	3.40	> 0.5

Note:

6 dB Bandwidth = Measured Frequency[MHz] – 5 725MHz

[Ant.2]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5728.24	3.24	> 0.5
802.11n(HT20)				5728.88	3.88	> 0.5
802.11ac(VHT20)				5728.88	3.88	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.92	2.92	> 0.5
802.11ac(VHT40)				5727.60	2.60	> 0.5

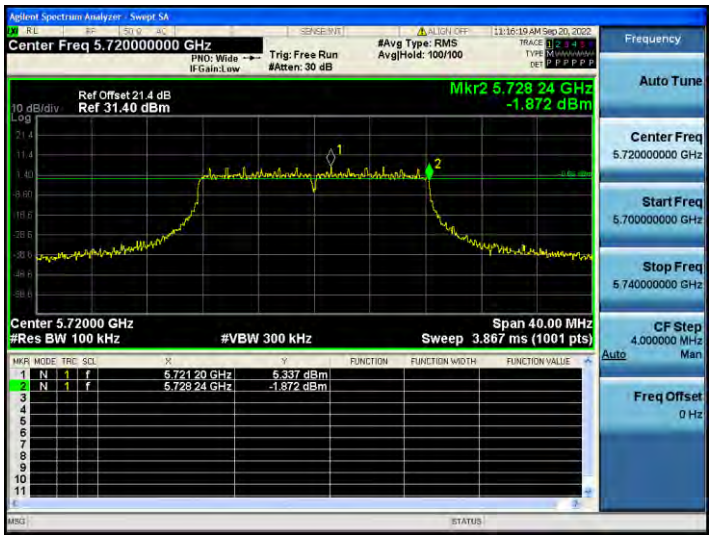
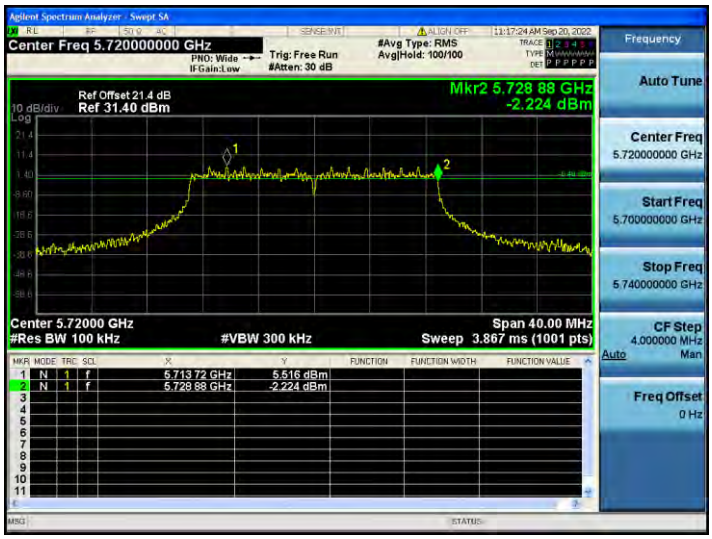
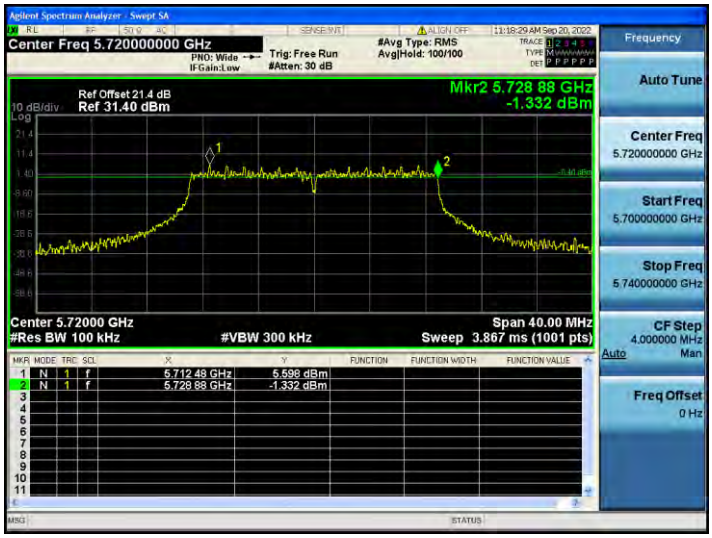
Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5728.40	3.40	> 0.5

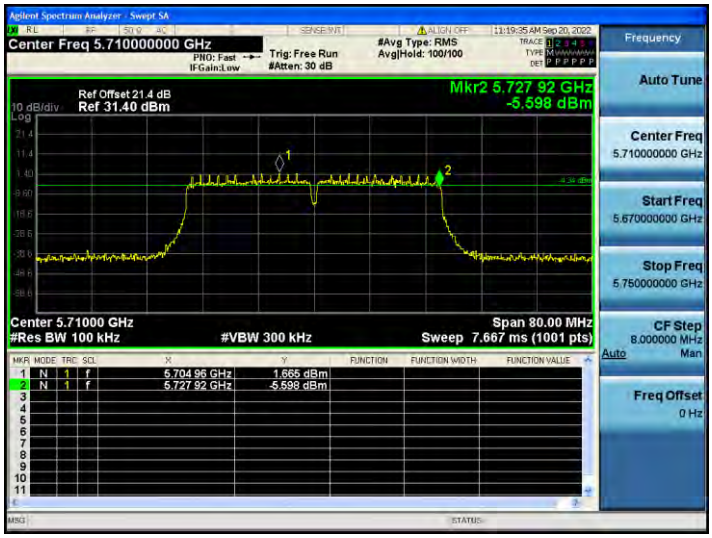
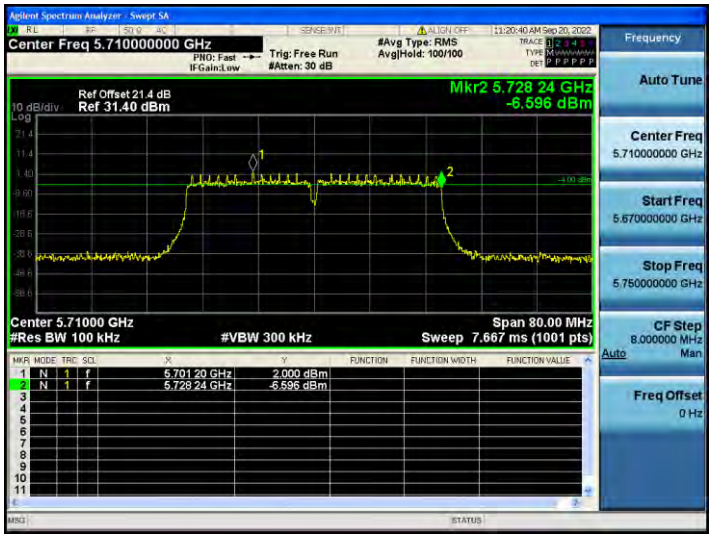
Note:

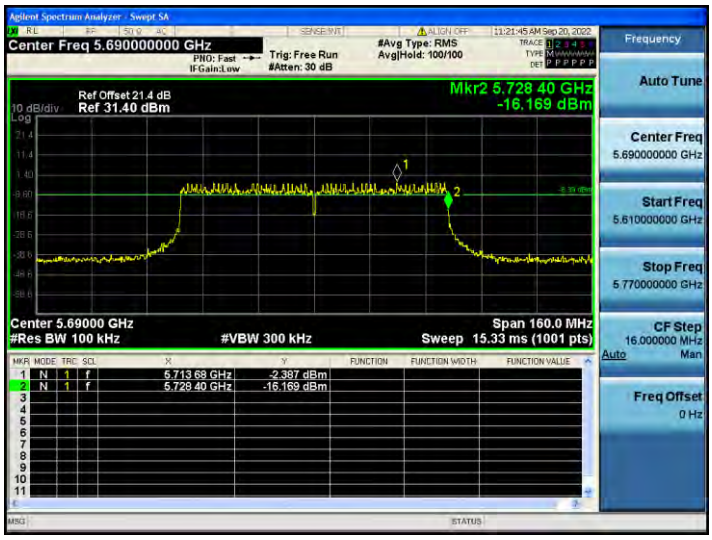
6 dB Bandwidth = Measured Frequency[MHz] – 5 725MHz

[Ant.1]

▣ Test Plots(UNII 3 Band 6 dB Bandwidth)

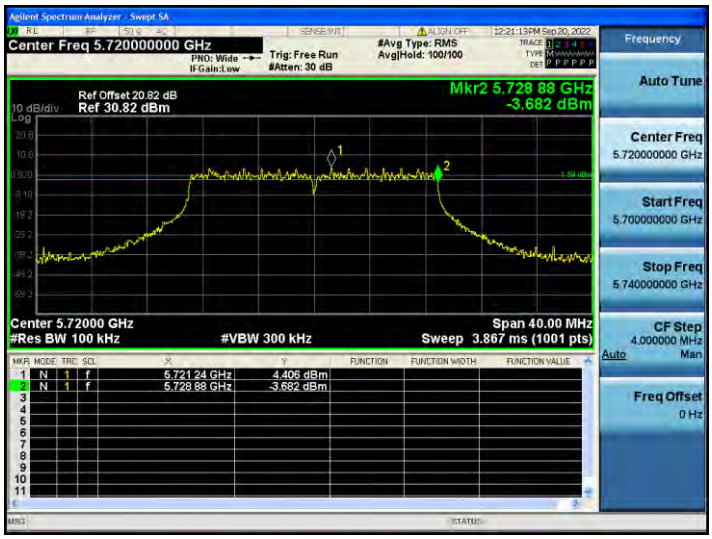
802.11a CH.144	802.11n_HT20 CH.144
	
802.11ac_VHT20 CH.144	
	

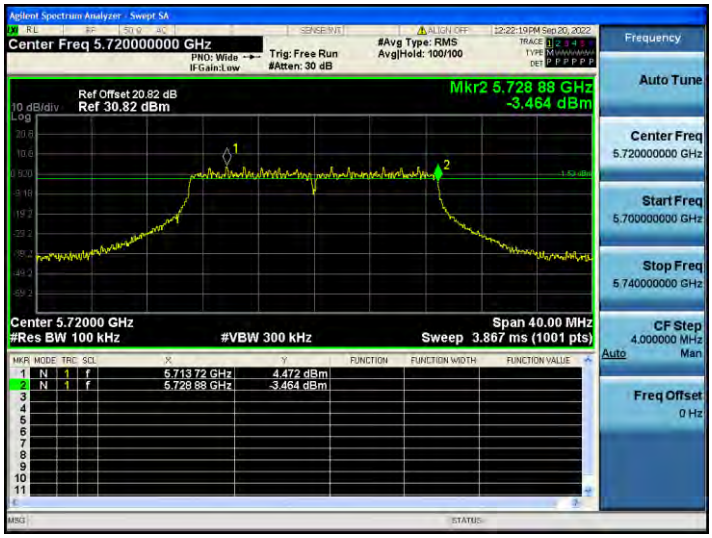
802.11n_HT40 CH.142	802.11ac_VHT40 CH.142
	

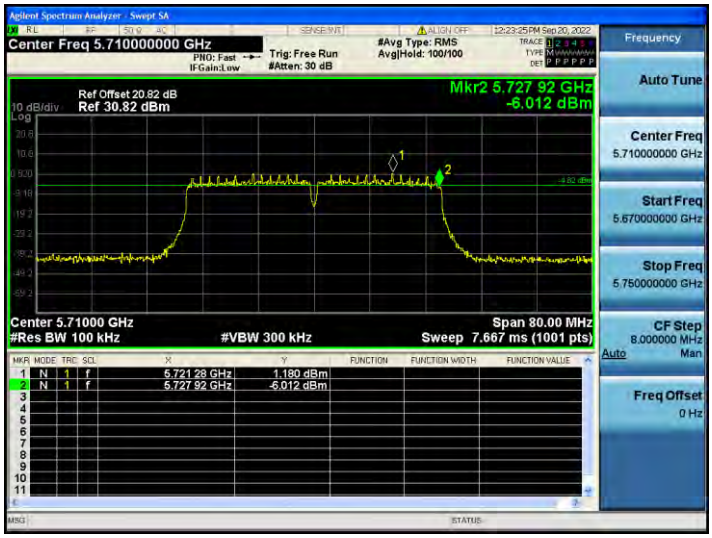
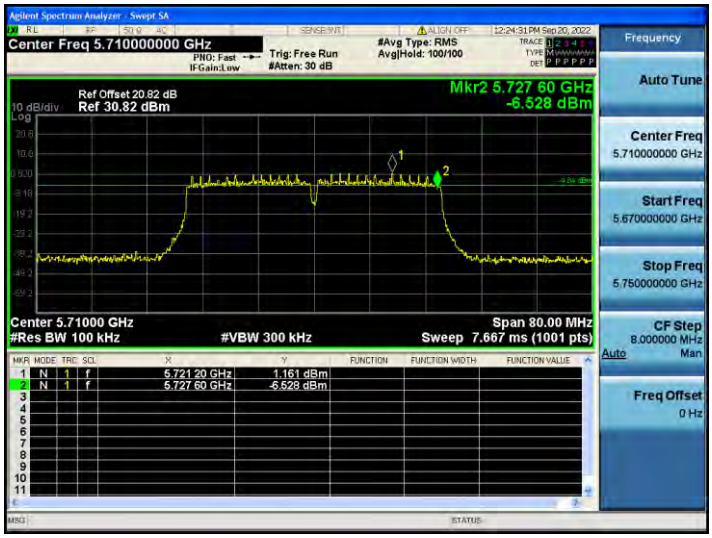
802.11ac_VHT80 CH.138


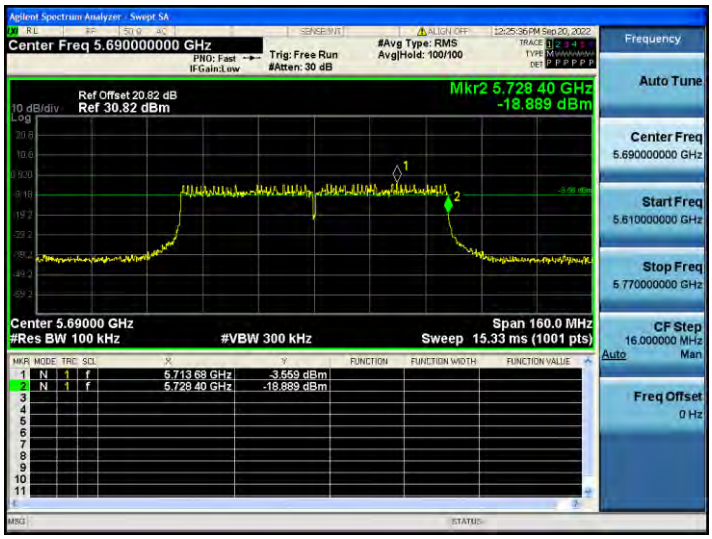
[Ant.2]

▣ Test Plots(UNII 3 Band 6 dB Bandwidth)

802.11a CH.144	802.11n_HT20 CH.144
	

802.11ac_VHT20 CH.144


802.11n_HT40 CH.142	802.11ac_VHT40 CH.142
	

802.11ac_VHT80 CH.138


10.7.3 Output Power

[Ant.1]

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720 (UNII 2C Band)	144	15.21	0.755	15.96	22.62	18 Mbps
802.11n(HT20)			13.89	1.800	15.69	23.05	MCS5
802.11ac(VHT20)			13.89	1.761	15.65	23.02	MCS5
802.11a	5720 (UNII 3 Band)	144	8.86	0.755	9.61	30.00	18 Mbps
802.11n(HT20)			8.60	1.800	10.40	30.00	MCS5
802.11ac(VHT20)			8.74	1.761	10.50	30.00	MCS5

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710 (UNII 2C Band)	142	14.35	1.114	15.46	23.98	MCS1
802.11ac(VHT40)			13.99	1.568	15.55	23.98	MCS2
802.11n(HT40)	5710 (UNII 3 Band)	142	3.82	1.114	4.93	30.00	MCS1
802.11ac(VHT40)			3.44	1.568	5.01	30.00	MCS2

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690 (UNII 2C Band)	138	8.74	6.138	14.88	23.98	MCS4
	5690 (UNII 3 Band)	138	-3.12	6.138	3.02	30.00	MCS4

[Ant.2]

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720 (UNII 2C Band)	144	14.35	0.755	15.11	22.62	18 Mbps
802.11n(HT20)			12.98	1.800	14.78	23.10	MCS5
802.11ac(VHT20)			13.09	1.761	14.85	23.12	MCS5
802.11a	5720 (UNII 3 Band)	144	8.03	0.755	8.79	30.00	18 Mbps
802.11n(HT20)			7.72	1.800	9.52	30.00	MCS5
802.11ac(VHT20)			7.79	1.761	9.55	30.00	MCS5

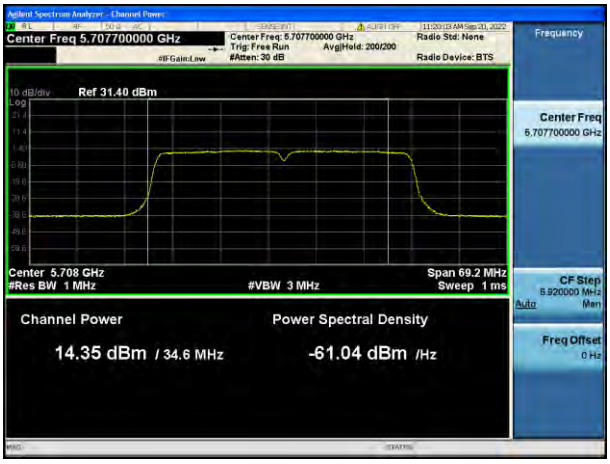
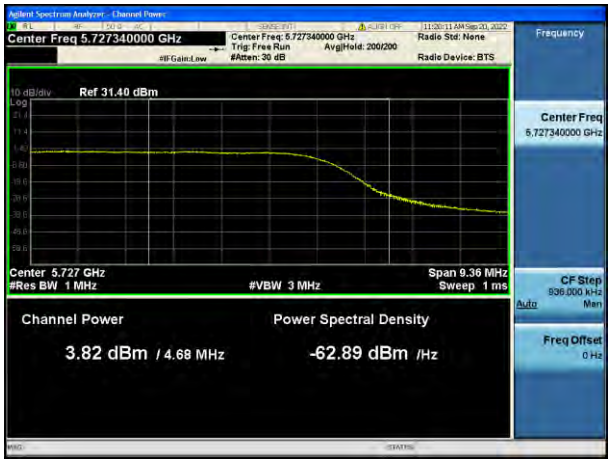
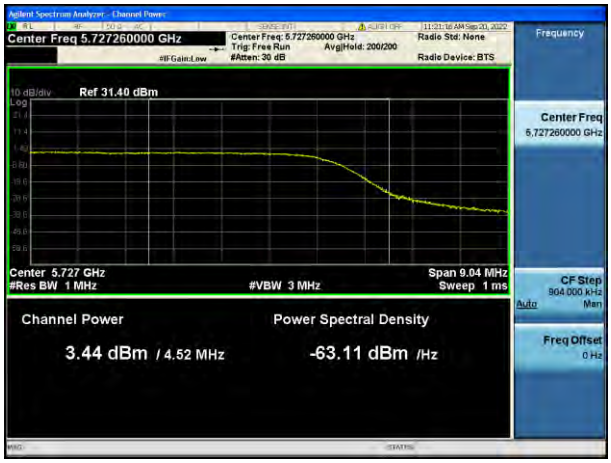
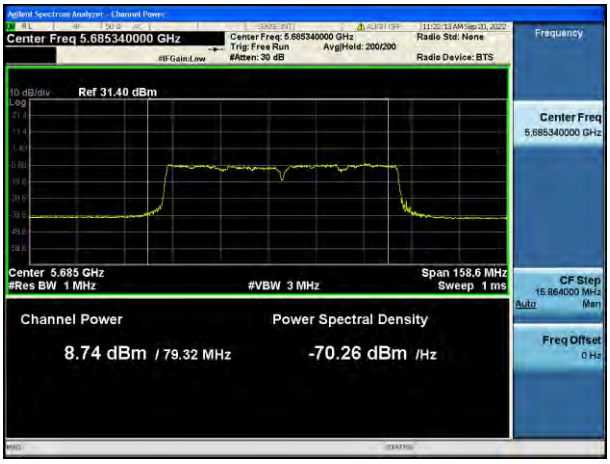
Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710 (UNII 2C Band)	142	13.52	1.114	14.64	23.98	MCS1
802.11ac(VHT40)			13.16	1.568	14.73	23.98	MCS2
802.11n(HT40)	5710 (UNII 3 Band)	142	2.96	1.114	4.07	30.00	MCS1
802.11ac(VHT40)			2.63	1.568	4.19	30.00	MCS2

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690 (UNII 2C Band)	138	7.39	6.138	13.53	23.98	MCS4
	5690 (UNII 3 Band)	138	-4.56	6.138	1.58	30.00	MCS4

[Ant.1]

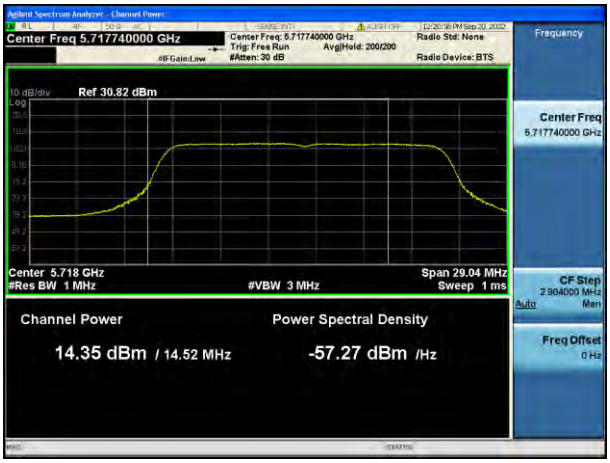
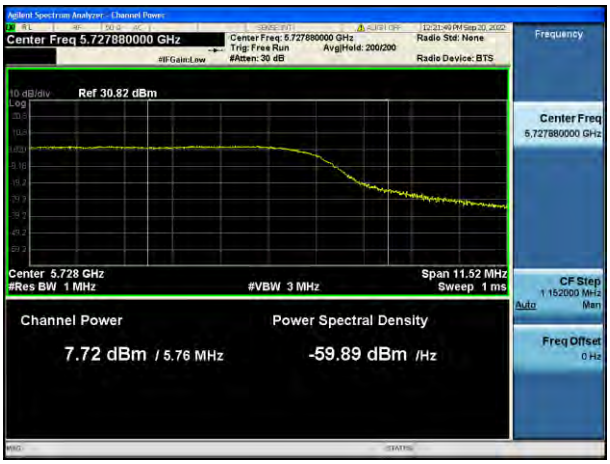
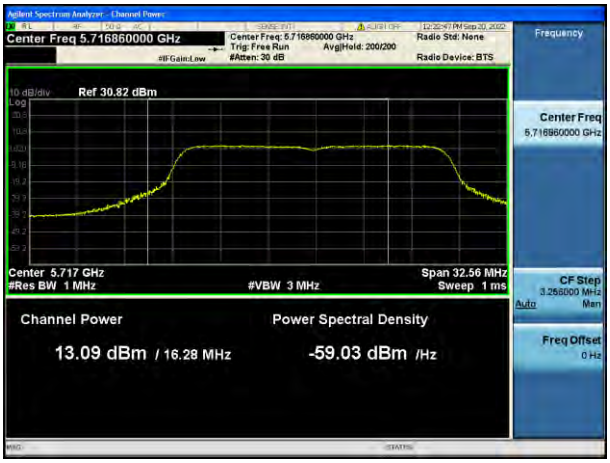
▣ Test Plots

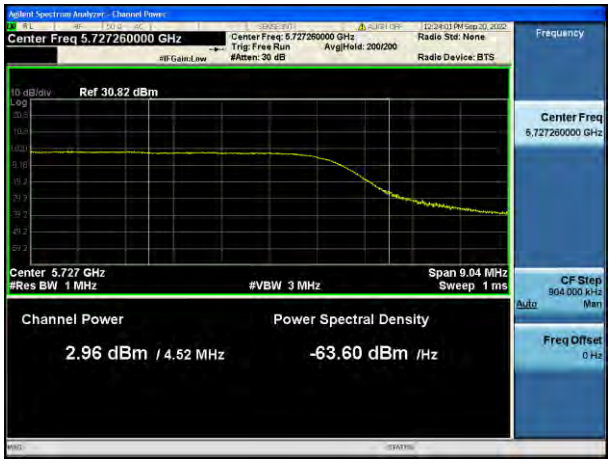
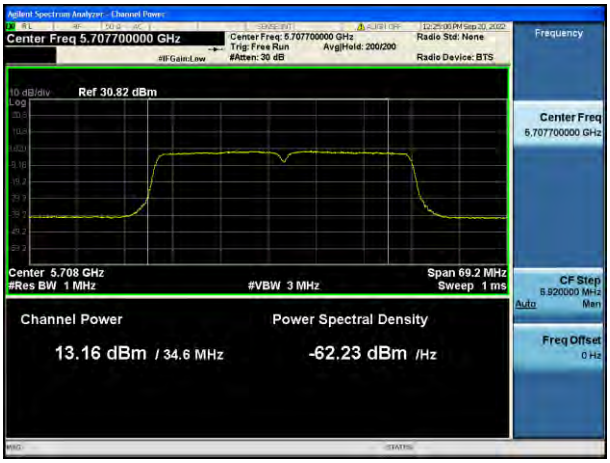
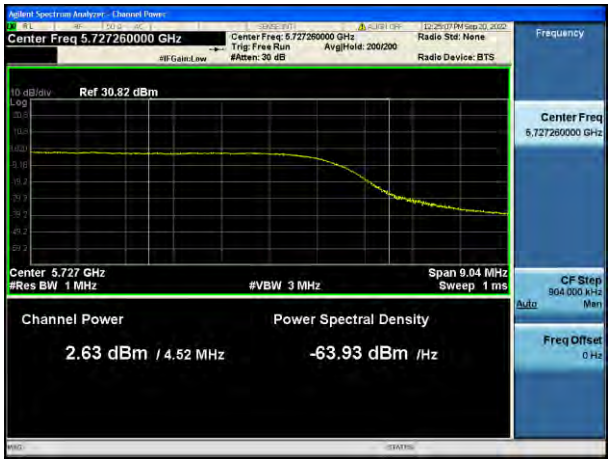
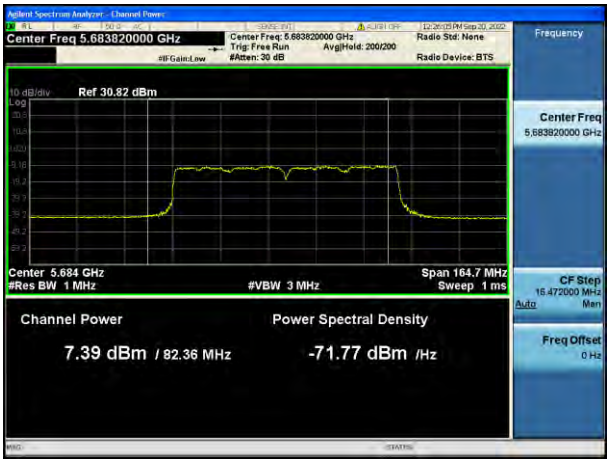
802.11a UNII 2C Band	802.11a UNII 3 Band
	
802.11n(HT20) UNII 2C Band	**802.11n(HT20) UNII 3 Band**
	
802.11ac(VHT20) UNII 2C Band	**802.11ac(VHT20) UNII 3 Band**
	

802.11n(HT40) UNII 2C Band	802.11n(HT40) UNII 3 Band
	
802.11ac(VHT40) UNII 2C Band	**802.11ac(VHT40) UNII 3 Band**
	
802.11ac(VHT80) UNII 2C Band	**802.11ac(VHT80) UNII 3 Band**
	

[Ant.2]

▣ Test Plots

802.11a UNII 2C Band	802.11a UNII 3 Band
	
802.11n(HT20) UNII 2C Band	**802.11n(HT20) UNII 3 Band**
	
802.11ac(VHT20) UNII 2C Band	**802.11ac(VHT20) UNII 3 Band**
	

802.11n(HT40) UNII 2C Band	802.11n(HT40) UNII 3 Band
	
802.11ac(VHT40) UNII 2C Band	**802.11ac(VHT40) UNII 3 Band**
	
802.11ac(VHT80) UNII 2C Band	**802.11ac(VHT80) UNII 3 Band**
	

10.7.4 Power Spectral Density

[Ant.1]

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720 (UNII 2C Band)	144	5.255	0.755	6.010	11 dBm/ MHz	18 Mbps
802.11n(HT20)			3.819	1.800	5.618		MCS5
802.11ac(VHT20)			3.671	1.761	5.432		MCS5
802.11a	5720 (UNII 3 Band)	144	2.041	0.755	2.797	30 dBm/ 500 kHz	18 Mbps
802.11n(HT20)			1.131	1.800	2.931		MCS5
802.11ac(VHT20)			0.970	1.761	2.731		MCS5

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710 (UNII 2C Band)	142	0.192	1.114	1.306	11 dBm/ MHz	MCS1
802.11ac(VHT40)			-0.004	1.568	1.564		MCS2
802.11n(HT40)	5710 (UNII 3 Band)	142	-3.730	1.114	-2.617	30 dBm/ 500 kHz	MCS1
802.11ac(VHT40)			-3.784	1.568	-2.216		MCS2

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-7.841	6.138	-1.702	11 dBm/ MHz	MCS4
	5690 (UNII 3 Band)	138	-11.624	6.138	-5.486	30 dBm/ 500 kHz	MCS4

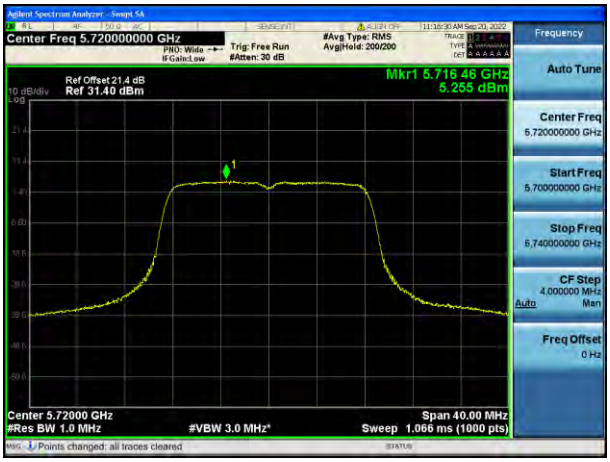
[Ant.2]

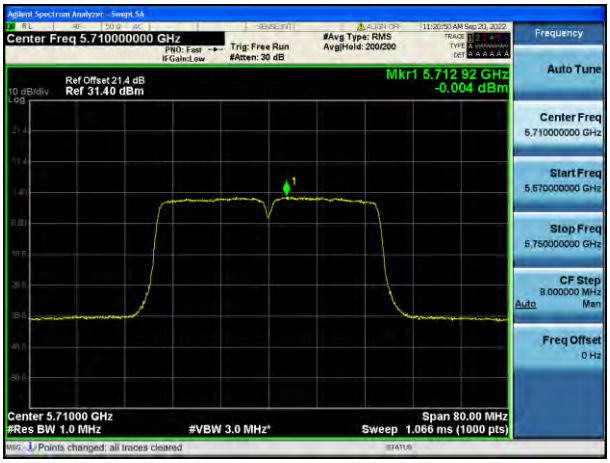
Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720 (UNII 2C Band)	144	4.275	0.755	5.030	11 dBm/ MHz	18 Mbps
802.11n(HT20)			2.648	1.800	4.448		MCS5
802.11ac(VHT20)			2.822	1.761	4.583		MCS5
802.11a	5720 (UNII 3 Band)	144	0.932	0.755	1.688	30 dBm/ 500 kHz	18 Mbps
802.11n(HT20)			0.368	1.800	2.168		MCS5
802.11ac(VHT20)			0.190	1.761	1.951		MCS5

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710 (UNII 2C Band)	142	-0.646	1.114	0.468	11 dBm/ MHz	MCS1
802.11ac(VHT40)			-0.790	1.568	0.778		MCS2
802.11n(HT40)	5710 (UNII 3 Band)	142	-4.302	1.114	-3.188	30 dBm/ 500 kHz	MCS1
802.11ac(VHT40)			-4.467	1.568	-2.899		MCS2

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-9.025	6.138	-2.886	11 dBm/ MHz	MCS4
	5690 (UNII 3 Band)	138	-10.899	6.138	-4.761	30 dBm/ 500 kHz	MCS4

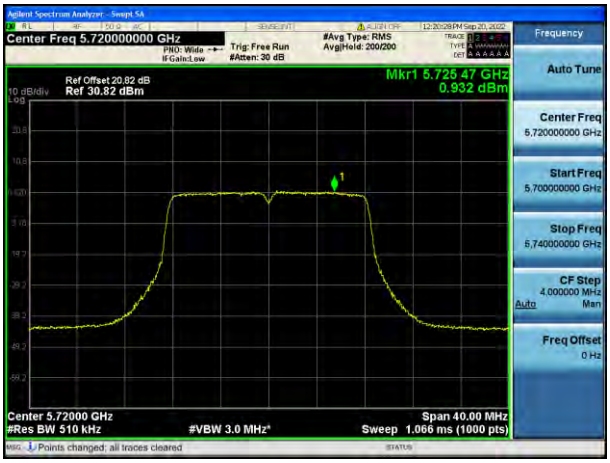
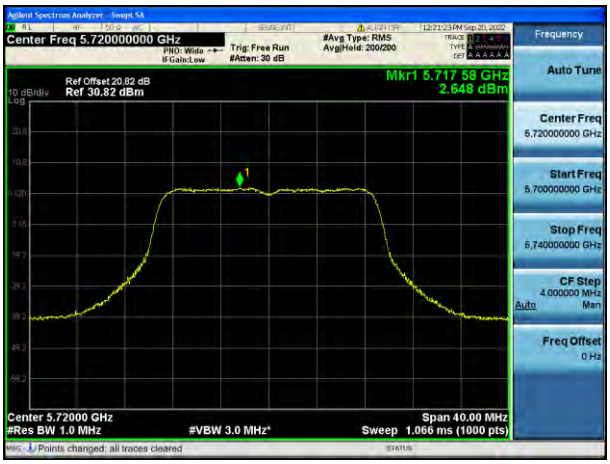
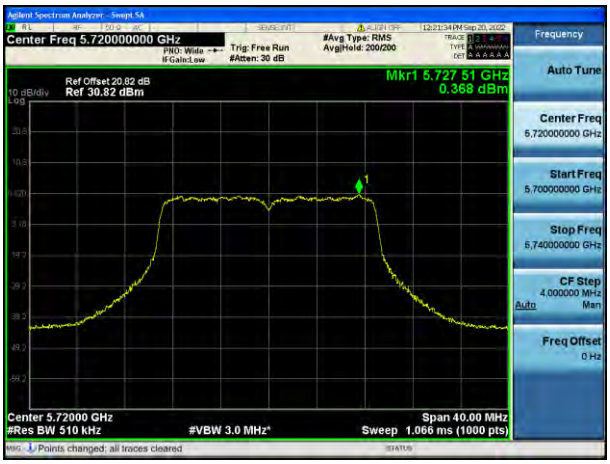
[Ant.1]
▣ Test Plots

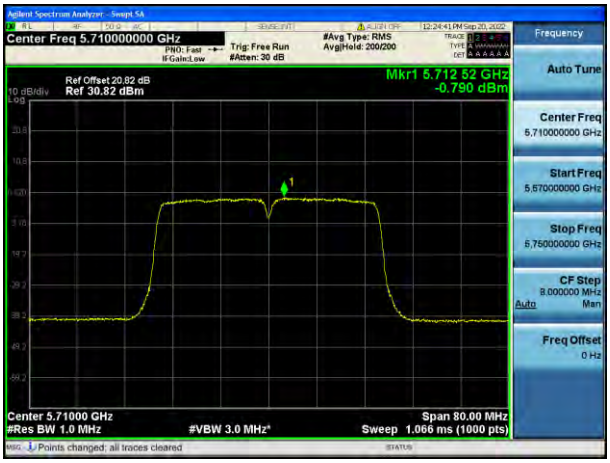
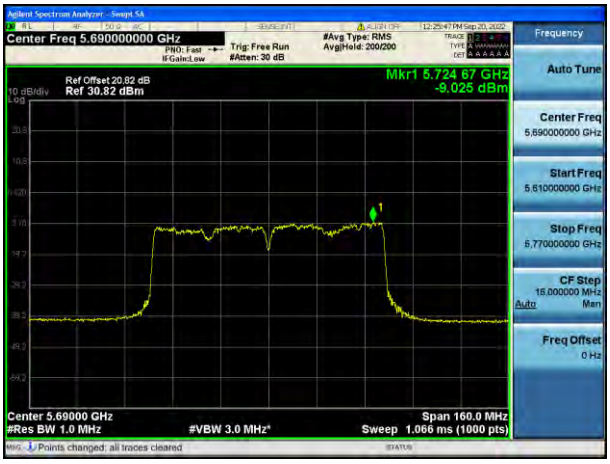
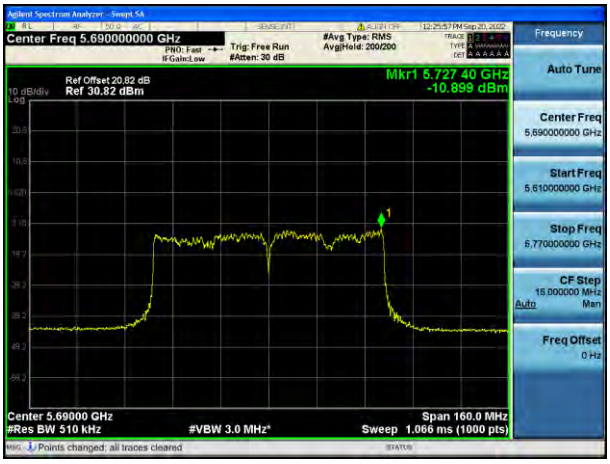
802.11a UNII 2C Band	802.11a UNII 3 Band
	
802.11n(HT20) UNII 2C Band	**802.11n(HT20) UNII 3 Band**
	
802.11ac(VHT20) UNII 2C Band	**802.11ac(VHT20) UNII 3 Band**
	

802.11n(HT40) UNII 2C Band	802.11n(HT40) UNII 3 Band
	
802.11ac(VHT40) UNII 2C Band	**802.11ac(VHT40) UNII 3 Band**
	
802.11ac(VHT80) UNII 2C Band	**802.11ac(VHT80) UNII 3 Band**
	

[Ant.2]

▣ Test Plots

802.11a UNII 2C Band	802.11a UNII 3 Band
	
802.11n(HT20) UNII 2C Band	**802.11n(HT20) UNII 3 Band**
	
802.11ac(VHT20) UNII 2C Band	**802.11ac(VHT20) UNII 3 Band**
	

802.11n(HT40) UNII 2C Band	802.11n(HT40) UNII 3 Band
	
802.11ac(VHT40) UNII 2C Band	**802.11ac(VHT40) UNII 3 Band**
	
802.11ac(VHT80) UNII 2C Band	**802.11ac(VHT80) UNII 3 Band**
	

10.8 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30 MHz

Frequency	Measured Value	A.F+D.F+C.L	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. The Measured Value of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = 40log (specific distance / test distance) (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

Frequency	Measured Value	A.F+C.L	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode

[Ant.1&Ant.2_MIMO(CDD)]

Frequency Range : Above 1 GHz

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10360	54.77	8.12	V	62.89	68.20	5.31	PK
15540	39.75	12.95	V	52.70	73.98	21.28	PK
15540	26.74	12.95	V	39.69	53.98	14.29	AV
10360	55.46	8.12	H	63.58	68.20	4.62	PK
15540	40.82	12.95	H	53.77	73.98	20.21	PK
15540	26.94	12.95	H	39.89	53.98	14.09	AV

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10400	55.93	8.14	V	64.07	68.20	4.13	PK
15600	39.63	13.29	V	52.92	73.98	21.06	PK
15600	26.58	13.29	V	39.87	53.98	14.11	AV
10400	55.55	8.14	H	63.69	68.20	4.51	PK
15600	39.64	13.29	H	52.93	73.98	21.05	PK
15600	26.60	13.29	H	39.89	53.98	14.09	AV

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10480	53.92	8.62	V	62.54	68.20	5.66	PK
15720	39.67	13.21	V	52.88	73.98	21.10	PK
15720	26.39	13.21	V	39.60	53.98	14.38	AV
10480	54.28	8.62	H	62.90	68.20	5.30	PK
15720	39.62	13.21	H	52.83	73.98	21.15	PK
15720	26.35	13.21	H	39.56	53.98	14.42	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10520	51.99	8.85	V	60.84	68.20	7.36	PK
15780	40.30	12.87	V	53.17	73.98	20.81	PK
15780	27.20	12.87	V	40.07	53.98	13.91	AV
10520	51.50	8.85	H	60.35	68.20	7.85	PK
15780	40.45	12.87	H	53.32	73.98	20.66	PK
15780	27.25	12.87	H	40.12	53.98	13.86	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10600	49.91	9.35	V	59.26	73.98	14.72	PK
10600	35.73	9.35	V	45.08	53.98	8.90	AV
15900	41.02	12.56	V	53.58	73.98	20.40	PK
15900	27.56	12.56	V	40.12	53.98	13.86	AV
10600	49.74	9.35	H	59.09	73.98	14.89	PK
10600	35.96	9.35	H	45.31	53.98	8.67	AV
15900	41.02	12.56	H	53.58	73.98	20.40	PK
15900	27.64	12.56	H	40.20	53.98	13.78	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10640	49.11	9.15	V	58.26	73.98	15.72	PK
10640	34.99	9.15	V	44.14	53.98	9.84	AV
15960	40.33	12.21	V	52.54	73.98	21.44	PK
15960	27.30	12.21	V	39.51	53.98	14.47	AV
10640	48.17	9.15	H	57.32	73.98	16.66	PK
10640	34.78	9.15	H	43.93	53.98	10.05	AV
15960	40.62	12.21	H	52.83	73.98	21.15	PK
15960	27.29	12.21	H	39.50	53.98	14.48	AV

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11000	43.55	10.19	V	53.74	73.98	20.24	PK
11000	31.24	10.19	V	41.43	53.98	12.55	AV
16500	41.93	12.17	V	54.10	68.20	14.10	PK
11000	44.55	10.19	H	54.74	73.98	19.24	PK
11000	31.02	10.19	H	41.21	53.98	12.77	AV
16500	41.13	12.17	H	53.30	68.20	14.90	PK

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5600 MHz
Channel No.	120 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11200	42.81	10.29	V	53.10	73.98	20.88	PK
11200	29.76	10.29	V	40.05	53.98	13.93	AV
16800	42.16	13.25	V	55.41	68.20	12.79	PK
11200	42.73	10.29	H	53.02	73.98	20.96	PK
11200	30.16	10.29	H	40.45	53.98	13.53	AV
16800	41.33	13.25	H	54.58	68.20	13.62	PK

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11440	45.02	10.43	V	55.45	73.98	18.53	PK
11440	30.63	10.43	V	41.06	53.98	12.92	AV
17160	40.97	13.78	V	54.75	68.20	13.45	PK
11440	45.50	10.43	H	55.93	73.98	18.05	PK
11440	31.52	10.43	H	41.95	53.98	12.03	AV
17160	41.03	13.78	H	54.81	68.20	13.39	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745MHz
Channel No.	149 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	43.32	10.81	V	54.13	73.98	19.85	PK
11490	30.77	10.81	V	41.58	53.98	12.40	AV
17235	41.36	14.28	V	55.64	68.20	12.56	PK
11490	45.12	10.81	H	55.93	73.98	18.05	PK
11490	31.54	10.81	H	42.35	53.98	11.63	AV
17235	40.81	14.28	H	55.09	68.20	13.11	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	46.46	10.13	V	56.59	73.98	17.39	PK
11570	32.24	10.13	V	42.37	53.98	11.61	AV
17355	40.53	15.62	V	56.15	68.20	12.05	PK
11570	47.26	10.13	H	57.39	73.98	16.59	PK
11570	33.43	10.13	H	43.56	53.98	10.42	AV
17355	40.92	15.62	H	56.54	68.20	11.66	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	46.47	9.58	V	56.05	73.98	17.93	PK
11650	32.69	9.58	V	42.27	53.98	11.71	AV
17475	40.27	17.18	V	57.45	68.20	10.75	PK
11650	49.11	9.58	H	58.69	73.98	15.29	PK
11650	34.26	9.58	H	43.84	53.98	10.14	AV
17475	39.98	17.18	H	57.16	68.20	11.04	PK

Band :	UNII 4
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5845
Channel No.	169 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11690	46.72	9.73	V	56.45	73.98	17.53	PK
11690	32.83	9.73	V	42.56	53.98	11.42	AV
17535	40.66	17.50	V	58.16	68.20	10.04	PK
11690	50.16	9.73	H	59.89	73.98	14.09	PK
11690	35.41	9.73	H	45.14	53.98	8.84	AV
17535	40.45	17.50	H	57.95	68.20	10.25	PK

Band :	UNII 4
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5865 MHz
Channel No.	173 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11730	45.94	8.83	V	54.77	73.98	19.21	PK
11730	32.85	8.83	V	41.68	53.98	12.30	AV
17595	41.08	17.56	V	58.64	68.20	9.56	PK
11730	48.89	8.83	H	57.72	73.98	16.26	PK
11730	34.19	8.83	H	43.02	53.98	10.96	AV
17595	40.39	17.56	H	57.95	68.20	10.25	PK

Band :	UNII 4
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5885 MHz
Channel No.	177 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11770	46.33	8.96	V	55.29	73.98	18.69	PK
11770	33.49	8.96	V	42.45	53.98	11.53	AV
17655	40.98	18.22	V	59.20	68.20	9.00	PK
11770	50.10	8.96	H	59.06	73.98	14.92	PK
11770	35.57	8.96	H	44.53	53.98	9.45	AV
17655	40.45	18.22	H	58.67	68.20	9.53	PK

Band :	UNII 1
Operation Mode:	802.11n(HT20)
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10360	54.85	8.12	V	62.97	68.20	5.23	PK
15540	40.73	12.95	V	53.68	73.98	20.30	PK
15540	26.91	12.95	V	39.86	53.98	14.12	AV
10360	55.32	8.12	H	63.44	68.20	4.76	PK
15540	40.10	12.95	H	53.05	73.98	20.93	PK
15540	26.88	12.95	H	39.83	53.98	14.15	AV

Band :	UNII 1
Operation Mode:	802.11n(HT20)
Transfer MCS Index:	0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10400	54.06	8.14	V	62.20	68.20	6.00	PK
15600	39.71	13.29	V	53.00	73.98	20.98	PK
15600	26.54	13.29	V	39.83	53.98	14.15	AV
10400	55.48	8.14	H	63.62	68.20	4.58	PK
15600	40.41	13.29	H	53.70	73.98	20.28	PK
15600	26.64	13.29	H	39.93	53.98	14.05	AV

Band :	UNII 1
Operation Mode:	802.11n(HT20)
Transfer MCS Index:	0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10480	53.56	8.62	V	62.18	68.20	6.02	PK
15720	39.46	13.21	V	52.67	73.98	21.31	PK
15720	26.42	13.21	V	39.63	53.98	14.35	AV
10480	54.12	8.62	H	62.74	68.20	5.46	PK
15720	39.49	13.21	H	52.70	73.98	21.28	PK
15720	26.44	13.21	H	39.65	53.98	14.33	AV

Band :	UNII 2A
Operation Mode:	802.11n(HT20)
Transfer MCS Index:	0
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10520	51.88	8.85	V	60.73	68.20	7.47	PK
15780	40.54	12.87	V	53.41	73.98	20.57	PK
15780	27.34	12.87	V	40.21	53.98	13.77	AV
10520	51.69	8.85	H	60.54	68.20	7.66	PK
15780	40.64	12.87	H	53.51	73.98	20.47	PK
15780	27.36	12.87	H	40.23	53.98	13.75	AV

Band :	UNII 2A
Operation Mode:	802.11n(HT20)
Transfer MCS Index:	0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10600	49.37	9.35	V	58.72	73.98	15.26	PK
10600	34.43	9.35	V	43.78	53.98	10.20	AV
15900	40.91	12.56	V	53.47	73.98	20.51	PK
15900	27.60	12.56	V	40.16	53.98	13.82	AV
10600	49.55	9.35	H	58.90	73.98	15.08	PK
10600	35.55	9.35	H	44.90	53.98	9.08	AV
15900	40.79	12.56	H	53.35	73.98	20.63	PK
15900	27.66	12.56	H	40.22	53.98	13.76	AV

Band :	UNII 2A
Operation Mode:	802.11n(HT20)
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10640	48.98	9.15	V	58.13	73.98	15.85	PK
10640	34.62	9.15	V	43.77	53.98	10.21	AV
15960	40.67	12.21	V	52.88	73.98	21.10	PK
15960	27.28	12.21	V	39.49	53.98	14.49	AV
10640	48.51	9.15	H	57.66	73.98	16.32	PK
10640	33.96	9.15	H	43.11	53.98	10.87	AV
15960	41.23	12.21	H	53.44	73.98	20.54	PK
15960	27.28	12.21	H	39.49	53.98	14.49	AV

Band :	UNII 1
Operation Mode:	802.11n(HT40)
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10380	49.92	8.11	V	58.03	68.20	10.17	PK
15570	40.53	12.96	V	53.49	73.98	20.49	PK
15570	27.55	12.96	V	40.51	53.98	13.47	AV
10380	49.74	8.11	H	57.85	68.20	10.35	PK
15570	39.85	12.96	H	52.81	73.98	21.17	PK
15570	27.45	12.96	H	40.41	53.98	13.57	AV

Band :	UNII 1
Operation Mode:	802.11n(HT40)
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10460	47.77	8.45	V	56.22	68.20	11.98	PK
15690	39.61	13.07	V	52.68	73.98	21.30	PK
15690	26.85	13.07	V	39.92	53.98	14.06	AV
10460	49.33	8.45	H	57.78	68.20	10.42	PK
15690	40.24	13.07	H	53.31	73.98	20.67	PK
15690	26.93	13.07	H	40.00	53.98	13.98	AV

Band :	UNII 2A
Operation Mode:	802.11n(HT40)
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10540	46.82	8.89	V	55.71	68.20	12.49	PK
15810	41.00	12.79	V	53.79	73.98	20.19	PK
15810	27.82	12.79	V	40.61	53.98	13.37	AV
10540	45.45	8.89	H	54.34	68.20	13.86	PK
15810	40.39	12.79	H	53.18	73.98	20.80	PK
15810	28.11	12.79	H	40.90	53.98	13.08	AV

Band :	UNII 2A
Operation Mode:	802.11n(HT40)
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10620	44.44	9.09	V	53.53	73.98	20.45	PK
10620	31.35	9.09	V	40.44	53.98	13.54	AV
15930	40.70	12.43	V	53.13	73.98	20.85	PK
15930	28.02	12.43	V	40.45	53.98	13.53	AV
10620	43.66	9.09	H	52.75	73.98	21.23	PK
10620	31.77	9.09	H	40.86	53.98	13.12	AV
15930	41.08	12.43	H	53.51	73.98	20.47	PK
15930	27.96	12.43	H	40.39	53.98	13.59	AV

Band :	UNII 1
Operation Mode:	802.11ac(VHT20)
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10360	52.92	8.12	V	61.04	68.20	7.16	PK
15540	40.59	12.95	V	53.54	73.98	20.44	PK
15540	26.80	12.95	V	39.75	53.98	14.23	AV
10360	55.49	8.12	H	63.61	68.20	4.59	PK
15540	39.92	12.95	H	52.87	73.98	21.11	PK
15540	26.84	12.95	H	39.79	53.98	14.19	AV

Band :	UNII 1
Operation Mode:	802.11ac(VHT20)
Transfer MCS Index:	0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10400	53.48	8.14	V	61.62	68.20	6.58	PK
15600	40.09	13.29	V	53.38	73.98	20.60	PK
15600	26.44	13.29	V	39.73	53.98	14.25	AV
10400	53.72	8.14	H	61.86	68.20	6.34	PK
15600	39.81	13.29	H	53.10	73.98	20.88	PK
15600	26.62	13.29	H	39.91	53.98	14.07	AV

Band :	UNII 1
Operation Mode:	802.11ac(VHT20)
Transfer MCS Index:	0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10480	52.56	8.62	V	61.18	68.20	7.02	PK
15720	40.02	13.21	V	53.23	73.98	20.75	PK
15720	26.34	13.21	V	39.55	53.98	14.43	AV
10480	54.07	8.62	H	62.69	68.20	5.51	PK
15720	40.32	13.21	H	53.53	73.98	20.45	PK
15720	26.30	13.21	H	39.51	53.98	14.47	AV

Band :	UNII 2A
Operation Mode:	802.11ac(VHT20)
Transfer MCS Index:	0
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10520	50.81	8.85	V	59.66	68.20	8.54	PK
15780	40.18	12.87	V	53.05	73.98	20.93	PK
15780	27.13	12.87	V	40.00	53.98	13.98	AV
10520	50.47	8.85	H	59.32	68.20	8.88	PK
15780	41.16	12.87	H	54.03	73.98	19.95	PK
15780	27.30	12.87	H	40.17	53.98	13.81	AV

Band :	UNII 2A
Operation Mode:	802.11ac(VHT20)
Transfer MCS Index:	0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10600	49.12	9.35	V	58.47	73.98	15.51	PK
10600	34.77	9.35	V	44.12	53.98	9.86	AV
15900	40.81	12.56	V	53.37	73.98	20.61	PK
15900	27.58	12.56	V	40.14	53.98	13.84	AV
10600	49.39	9.35	H	58.74	73.98	15.24	PK
10600	35.48	9.35	H	44.83	53.98	9.15	AV
15900	41.32	12.56	H	53.88	73.98	20.10	PK
15900	27.68	12.56	H	40.24	53.98	13.74	AV

Band :	UNII 2A
Operation Mode:	802.11ac(VHT20)
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10640	48.95	9.15	V	58.10	73.98	15.88	PK
10640	34.69	9.15	V	43.84	53.98	10.14	AV
15960	40.35	12.21	V	52.56	73.98	21.42	PK
15960	27.33	12.21	V	39.54	53.98	14.44	AV
10640	48.62	9.15	H	57.77	73.98	16.21	PK
10640	34.12	9.15	H	43.27	53.98	10.71	AV
15960	40.59	12.21	H	52.80	73.98	21.18	PK
15960	27.26	12.21	H	39.47	53.98	14.51	AV

Band :	UNII 1
Operation Mode:	802.11ac(VHT40)
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10380	50.17	8.11	V	58.28	68.20	9.92	PK
15570	40.21	12.96	V	53.17	73.98	20.81	PK
15570	27.17	12.96	V	40.13	53.98	13.85	AV
10380	51.32	8.11	H	59.43	68.20	8.77	PK
15570	40.10	12.96	H	53.06	73.98	20.92	PK
15570	27.27	12.96	H	40.23	53.98	13.75	AV

Band :	UNII 1
Operation Mode:	802.11ac(VHT40)
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10460	48.75	8.45	V	57.20	68.20	11.00	PK
15690	39.38	13.07	V	52.45	73.98	21.53	PK
15690	26.66	13.07	V	39.73	53.98	14.25	AV
10460	49.40	8.45	H	57.85	68.20	10.35	PK
15690	40.09	13.07	H	53.16	73.98	20.82	PK
15690	26.94	13.07	H	40.01	53.98	13.97	AV

Band :	UNII 2A
Operation Mode:	802.11ac(VHT40)
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10540	47.10	8.89	V	55.99	68.20	12.21	PK
15810	40.31	12.79	V	53.10	73.98	20.88	PK
15810	27.82	12.79	V	40.61	53.98	13.37	AV
10540	46.56	8.89	H	55.45	68.20	12.75	PK
15810	40.40	12.79	H	53.19	73.98	20.79	PK
15810	27.94	12.79	H	40.73	53.98	13.25	AV

Band :	UNII 2A
Operation Mode:	802.11ac(VHT40)
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10620	43.70	9.09	V	52.79	73.98	21.19	PK
10620	30.82	9.09	V	39.91	53.98	14.07	AV
15930	40.48	12.43	V	52.91	73.98	21.07	PK
15930	28.01	12.43	V	40.44	53.98	13.54	AV
10620	43.86	9.09	H	52.95	73.98	21.03	PK
10620	30.71	9.09	H	39.80	53.98	14.18	AV
15930	40.70	12.43	H	53.13	73.98	20.85	PK
15930	28.00	12.43	H	40.43	53.98	13.55	AV

Band :	UNII 1
Operation Mode:	802.11ac(VHT80)
Transfer MCS Index:	0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10420	45.00	8.10	V	53.10	68.20	15.10	PK
15630	39.79	13.16	V	52.95	73.98	21.03	PK
15630	27.61	13.16	V	40.77	53.98	13.21	AV
10420	45.74	8.10	H	53.84	68.20	14.36	PK
15630	39.96	13.16	H	53.12	73.98	20.86	PK
15630	27.84	13.16	H	41.00	53.98	12.98	AV

Band :	UNII 2A
Operation Mode:	802.11ac(VHT80)
Transfer MCS Index:	0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10580	43.62	9.40	V	53.02	68.20	15.18	PK
15870	40.46	12.99	V	53.45	73.98	20.53	PK
15870	28.69	12.99	V	41.68	53.98	12.30	AV
10580	42.92	9.40	H	52.32	68.20	15.88	PK
15870	40.79	12.99	H	53.78	73.98	20.20	PK
15870	28.94	12.99	H	41.93	53.98	12.05	AV

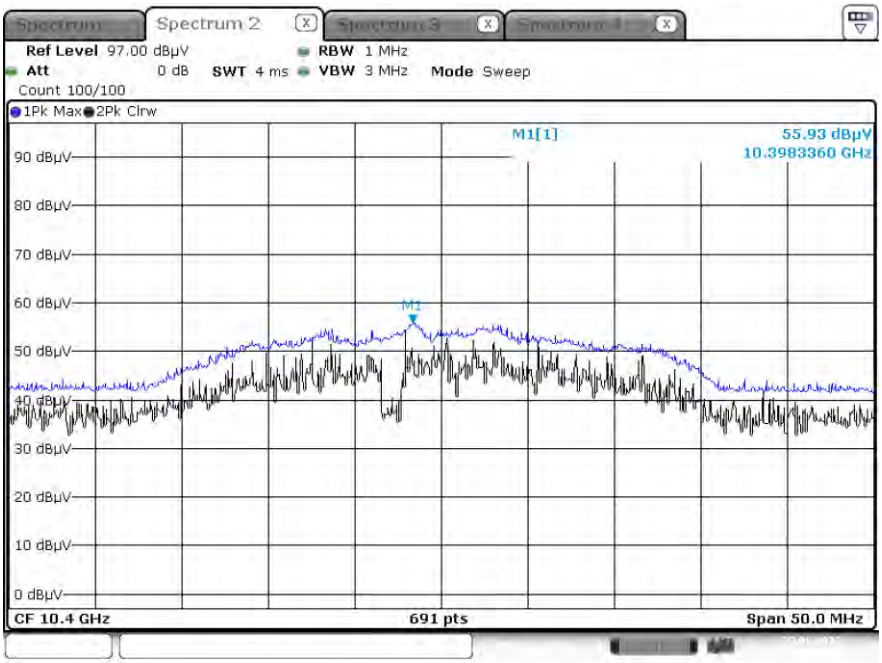
Band :	UNII 1&2A
Operation Mode:	802.11ac(VHT160)
Transfer MCS Index:	0
Operating Frequency	5250 MHz
Channel No.	50 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10500	43.69	8.50	V	52.19	68.20	16.01	PK
15750	40.15	12.83	V	52.98	73.98	21.00	PK
15750	28.62	12.83	V	41.45	53.98	12.53	AV
10500	43.97	8.50	H	52.47	68.20	15.73	PK
15750	40.58	12.83	H	53.41	73.98	20.57	PK
15750	28.82	12.83	H	41.65	53.98	12.33	AV

▣ Test Plots

[Ant.1&Ant.2_MIMO(CDD)]

Radiated Spurious Emissions plot – Peak Result (802.11a, Ch.40 Spurious Emissions, X-V)



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 RADIATED RESTRICTED BAND EDGE

[Ant.1&Ant.2_MIMO(CDD)]

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	57.31	8.43	H	65.74	73.98	8.24	PK
5150	36.81	8.43	H	45.24	53.98	8.74	AV
5150	56.98	8.43	V	65.41	73.98	8.57	PK
5150	36.51	8.43	V	44.94	53.98	9.04	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	60.36	8.23	H	68.59	73.98	5.39	PK
5350	38.74	8.23	H	46.97	53.98	7.01	AV
5350	59.91	8.23	V	68.14	73.98	5.84	PK
5350	38.35	8.23	V	46.58	53.98	7.40	AV

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	46.53	8.98	H	55.51	73.98	18.47	PK
5460	32.81	8.98	H	41.79	53.98	12.19	AV
5470	51.51	8.75	H	60.26	68.20	7.94	PK
5460	46.12	8.98	V	55.10	73.98	18.88	PK
5460	32.55	8.98	V	41.53	53.98	12.45	AV
5470	51.09	8.75	V	59.84	68.20	8.36	PK

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	54.69	8.43	H	63.12	73.98	10.86	PK
5150	33.78	8.43	H	42.21	53.98	11.77	AV
5150	54.48	8.43	V	62.91	73.98	11.07	PK
5150	33.51	8.43	V	41.94	53.98	12.04	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	62.29	8.23	H	70.52	73.98	3.46	PK
5350	38.09	8.23	H	46.32	53.98	7.66	AV
5350	61.98	8.23	V	70.21	73.98	3.77	PK
5350	37.25	8.23	V	45.48	53.98	8.50	AV

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	47.57	8.98	H	56.55	73.98	17.43	PK
5460	32.91	8.98	H	41.89	53.98	12.09	AV
5470	51.27	8.75	H	60.02	68.20	8.18	PK
5460	45.32	8.98	V	54.30	73.98	19.68	PK
5460	32.78	8.98	V	41.76	53.98	12.22	AV
5470	51.05	8.75	V	59.80	68.20	8.40	PK

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	53.16	8.43	H	61.59	73.98	12.39	PK
5150	33.99	8.43	H	42.42	53.98	11.56	AV
5150	52.89	8.43	V	61.32	73.98	12.66	PK
5150	33.77	8.43	V	42.20	53.98	11.78	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	61.85	8.23	H	70.08	73.98	3.90	PK
5350	38.12	8.23	H	46.35	53.98	7.63	AV
5350	60.89	8.23	V	69.12	73.98	4.86	PK
5350	37.59	8.23	V	45.82	53.98	8.16	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	46.60	8.98	H	55.58	73.98	18.40	PK
5460	32.70	8.98	H	41.68	53.98	12.30	AV
5470	50.84	8.75	H	59.59	68.20	8.61	PK
5460	46.48	8.98	V	55.46	73.98	18.52	PK
5460	32.55	8.98	V	41.53	53.98	12.45	AV
5470	50.69	8.75	V	59.44	68.20	8.76	PK

Band :	UNII 1
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	42.30	15.59	H	57.89	73.98	16.09	PK
5150	31.45	15.59	H	47.04	53.98	6.94	AV
5150	42.05	15.59	V	57.64	73.98	16.34	PK
5150	31.22	15.59	V	46.81	53.98	7.17	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	49.25	15.22	H	64.47	73.98	9.51	PK
5350	34.56	15.22	H	49.78	53.98	4.20	AV
5350	49.01	15.22	V	64.23	73.98	9.75	PK
5350	34.29	15.22	V	49.51	53.98	4.47	AV

Band :	UNII 2C
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.88	15.81	H	59.69	73.98	14.29	PK
5460	31.47	15.81	H	47.28	53.98	6.70	AV
5470	47.98	15.82	H	63.80	68.20	4.40	PK
5460	43.62	15.81	V	59.43	73.98	14.55	PK
5460	31.22	15.81	V	47.03	53.98	6.95	AV
5470	47.78	15.82	V	63.60	68.20	4.60	PK

Band :	UNII 1
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	48.29	15.59	H	63.88	73.98	10.10	PK
5150	31.68	15.59	H	47.27	53.98	6.71	AV
5150	48.02	15.59	V	63.61	73.98	10.37	PK
5150	31.48	15.59	V	47.07	53.98	6.91	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	51.07	15.22	H	66.29	73.98	7.69	PK
5350	33.51	15.22	H	48.73	53.98	5.25	AV
5350	50.89	15.22	V	66.11	73.98	7.87	PK
5350	33.22	15.22	V	48.44	53.98	5.54	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	45.06	15.81	H	60.87	73.98	13.11	PK
5460	30.93	15.81	H	46.74	53.98	7.24	AV
5470	48.81	15.82	H	64.63	68.20	3.57	PK
5460	44.89	15.81	V	60.70	73.98	13.28	PK
5460	30.71	15.81	V	46.52	53.98	7.46	AV
5470	48.62	15.82	V	64.44	68.20	3.76	PK

Band :	UNII 1
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	41.95	15.59	H	57.54	73.98	16.44	PK
5150	30.35	15.59	H	45.94	53.98	8.04	AV
5150	41.55	15.59	V	57.14	73.98	16.84	PK
5150	30.12	15.59	V	45.71	53.98	8.27	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	46.90	15.22	H	62.12	73.98	11.86	PK
5350	35.35	15.22	H	50.57	53.98	3.41	AV
5350	46.51	15.22	V	61.73	73.98	12.25	PK
5350	34.12	15.22	V	49.34	53.98	4.64	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	41.98	15.81	H	57.79	73.98	16.19	PK
5460	31.04	15.81	H	46.85	53.98	7.13	AV
5470	44.03	15.82	H	59.85	68.20	8.35	PK
5460	41.69	15.81	V	57.50	73.98	16.48	PK
5460	30.89	15.81	V	46.70	53.98	7.28	AV
5470	43.92	15.82	V	59.74	68.20	8.46	PK

Band :	UNII1 & 2A
Operation Mode:	802.11 ac_VHT160
Transfer MCS Index:	0
Operating Frequency	5250 MHz
Channel No.	50 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	48.51	15.59	H	64.10	73.98	9.88	PK
5150	33.66	15.59	H	49.25	53.98	4.73	AV
5150	48.32	15.59	V	63.91	73.98	10.07	PK
5150	33.22	15.59	V	48.81	53.98	5.17	AV

Band :	UNII1 & 2A
Operation Mode:	802.11 ac_VHT160
Transfer MCS Index:	0
Operating Frequency	5250 MHz
Channel No.	50 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	45.84	15.22	H	61.06	73.98	12.92	PK
5350	36.22	15.22	H	51.44	53.98	2.54	AV
5350	45.78	15.22	V	61.00	73.98	12.98	PK
5350	35.89	15.22	V	51.11	53.98	2.87	AV

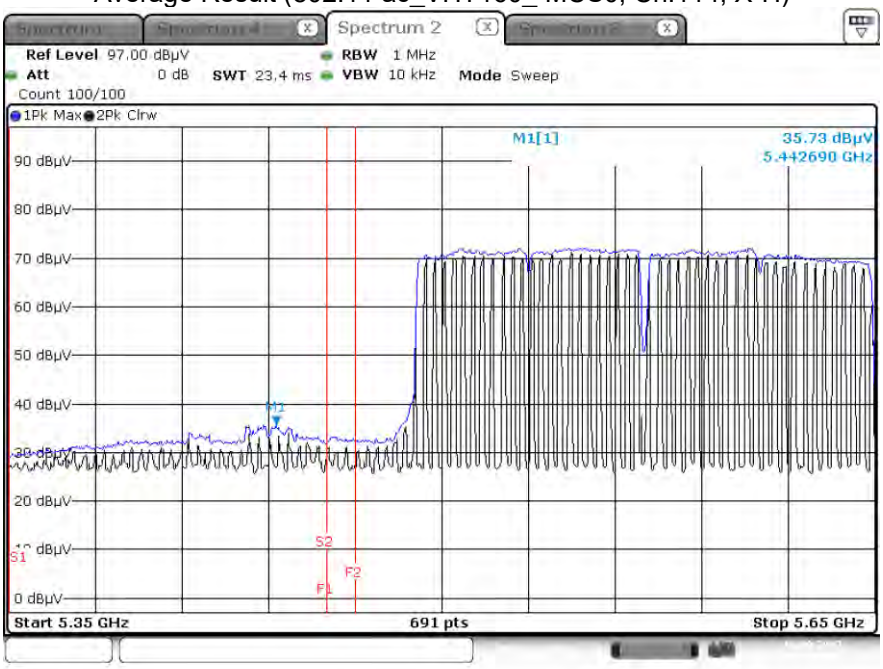
Band :	UNII 2C
Operation Mode:	802.11 ac_VHT160
Transfer MCS Index:	0
Operating Frequency	5570 MHz
Channel No.	114 Ch

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	45.60	15.81	H	61.41	73.98	12.57	PK
5460	35.73	15.81	H	51.54	53.98	2.44	AV
5470	43.59	15.82	H	59.41	68.20	8.79	PK
5460	45.55	15.81	V	61.36	73.98	12.62	PK
5460	35.62	15.81	V	51.43	53.98	2.55	AV
5470	43.22	15.82	V	59.04	68.20	9.16	PK

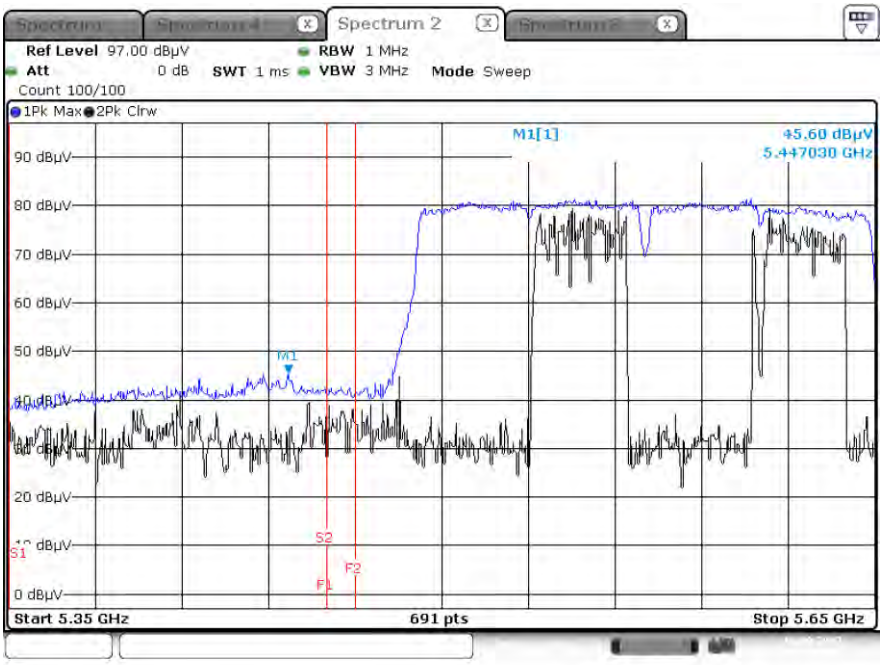
[Ant.1&Ant.2_MIMO(CDD)]

▣ Test Plots(UNII 1, 2A, 2C)

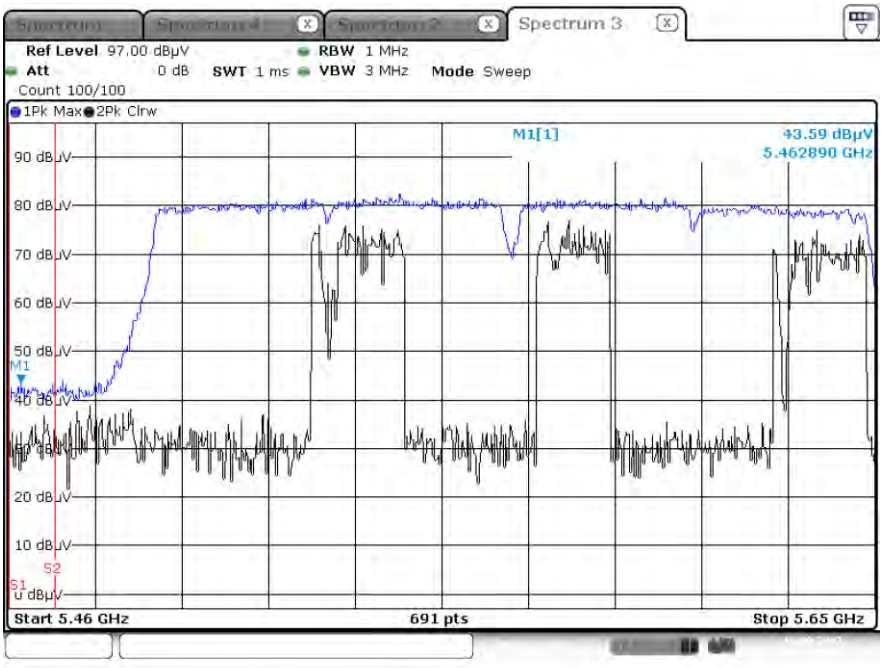
Average Result (802.11 ac_VHT160_ MCS0, Ch.114, X-H)



Peak Result (802.11 ac_VHT160_ MCS0, Ch.114, X-H)



Peak Result (802.11 ac_VHT160_ MCS0, Ch.114, X-H)

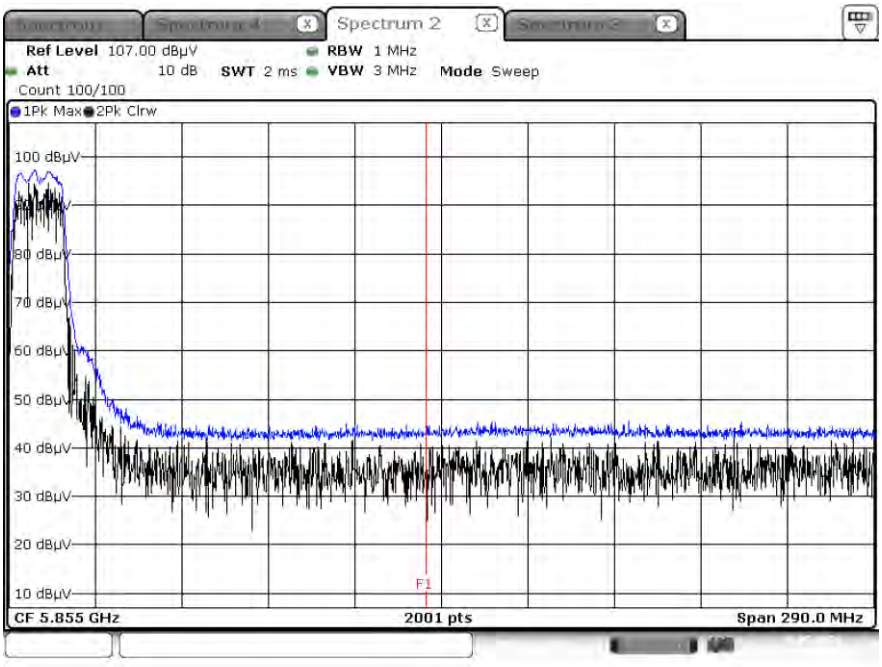


Note:

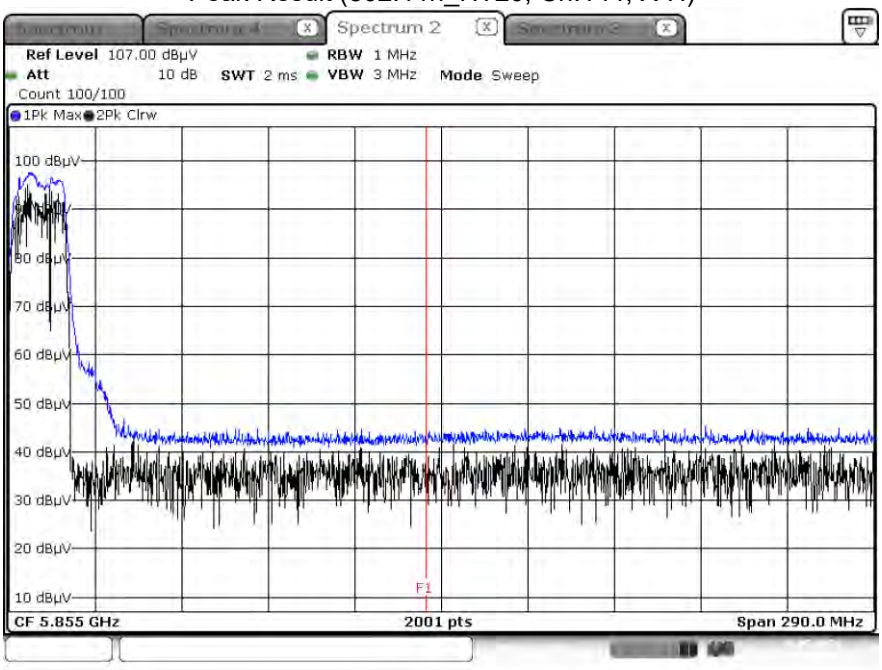
Only the worst case plots for Radiated Restricted Band Edge.

▣ Test Plots(Straddle Channel)

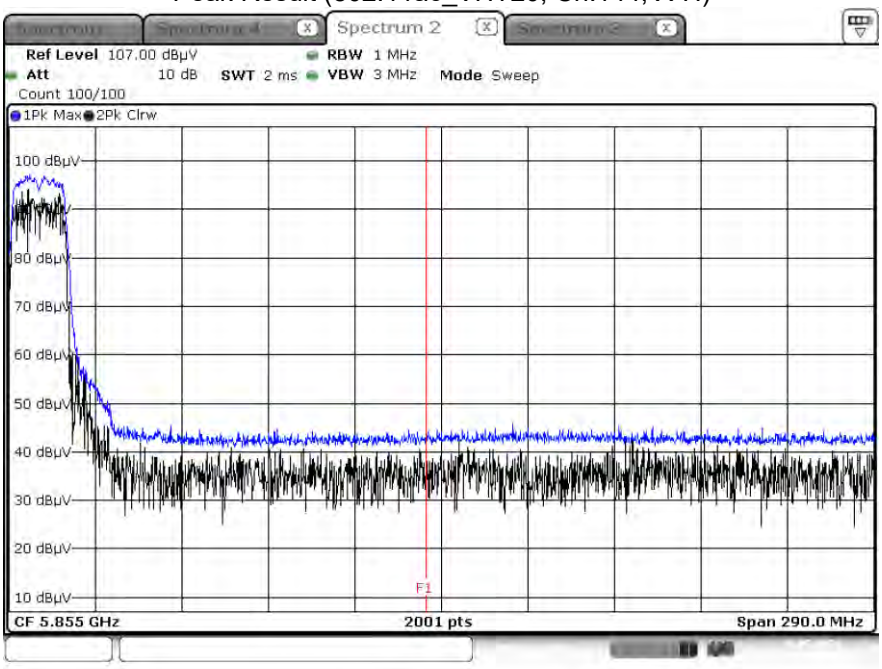
Peak Result (802.11a, Ch.144, X-H)



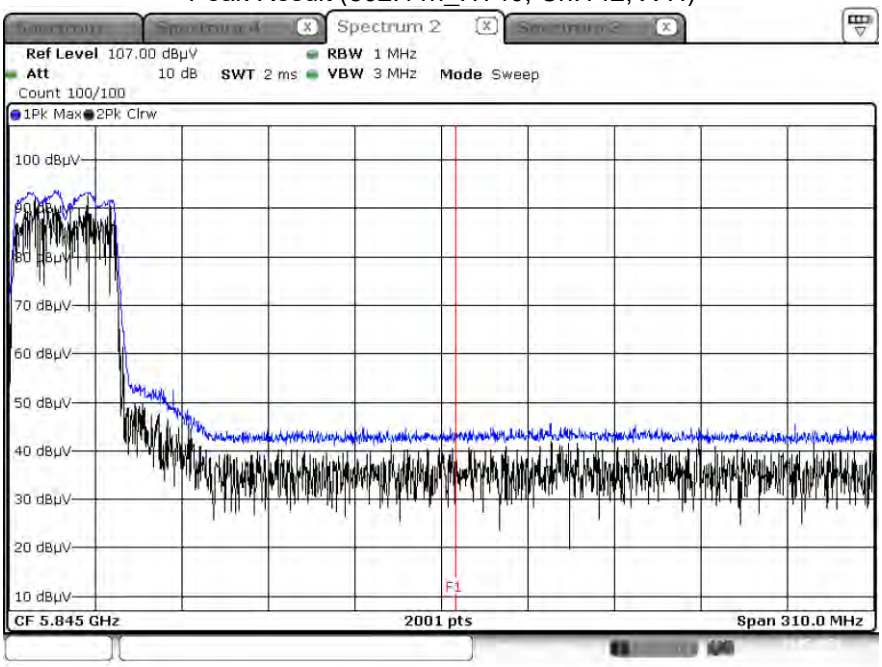
Peak Result (802.11n_HT20, Ch.144, X-H)



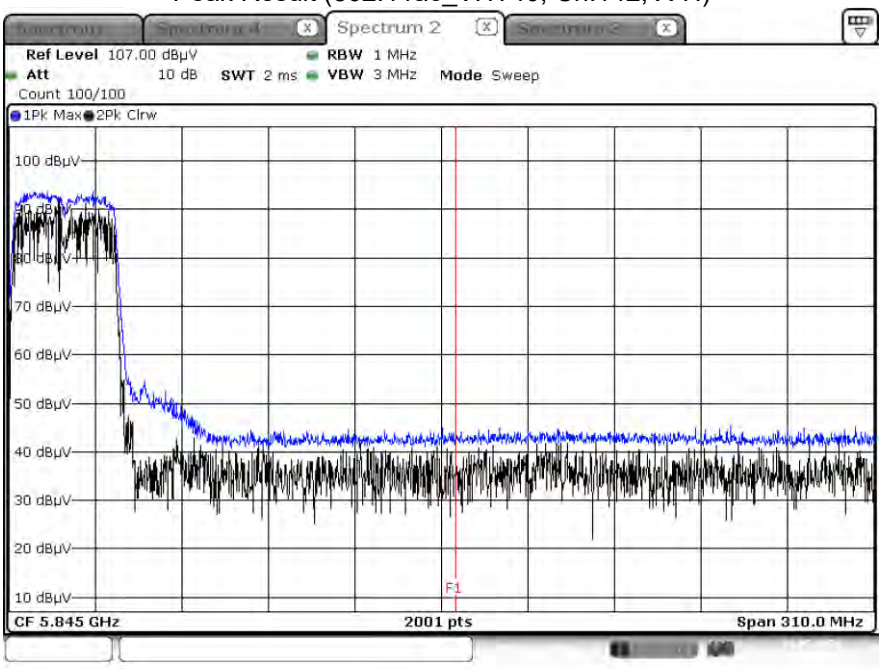
Peak Result (802.11ac_VHT20, Ch.144, X-H)



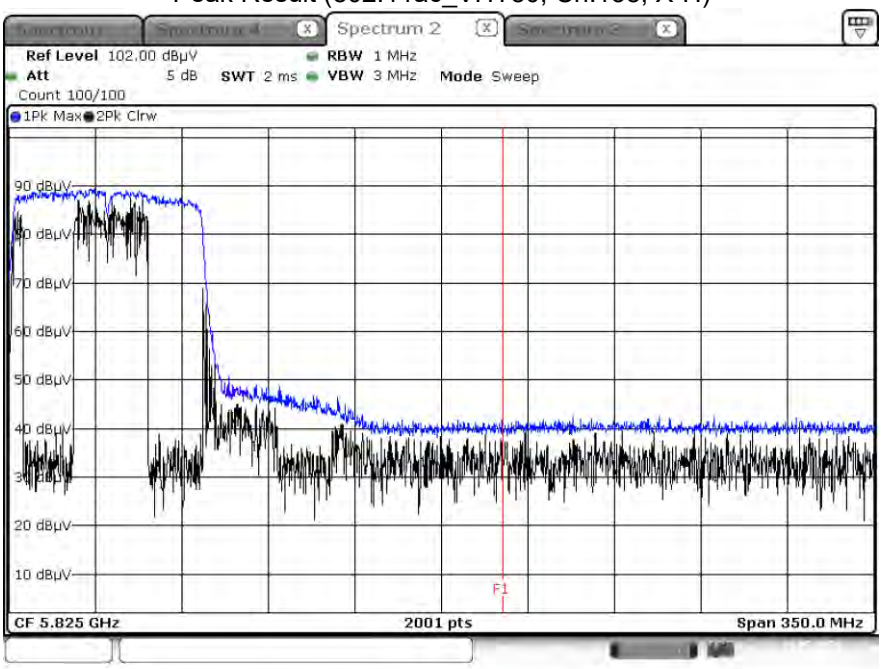
Peak Result (802.11n_HT40, Ch.142, X-H)



Peak Result (802.11ac_VHT40, Ch.142, X-H)



Peak Result (802.11ac_VHT80, Ch.138, X-H)

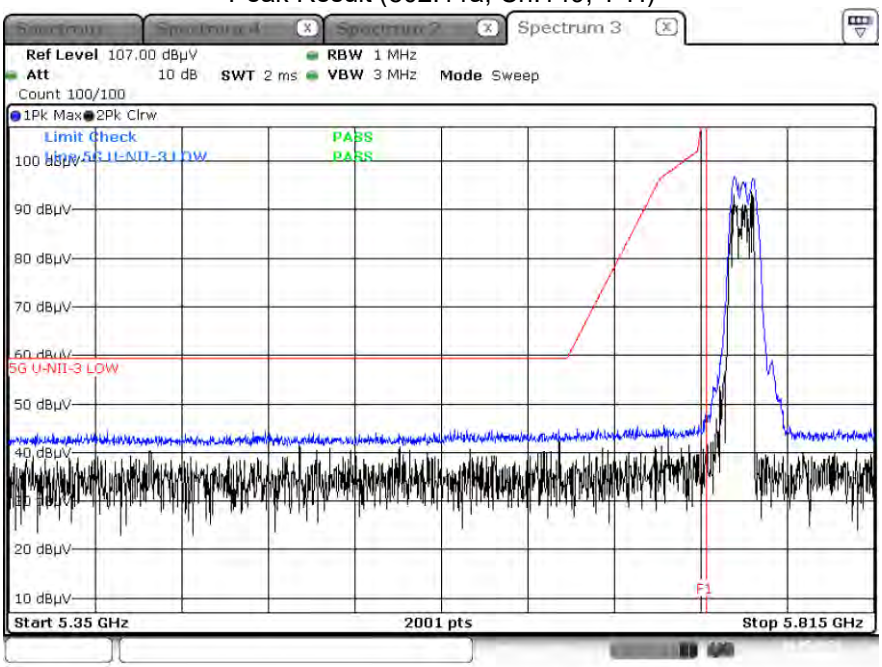


Note :

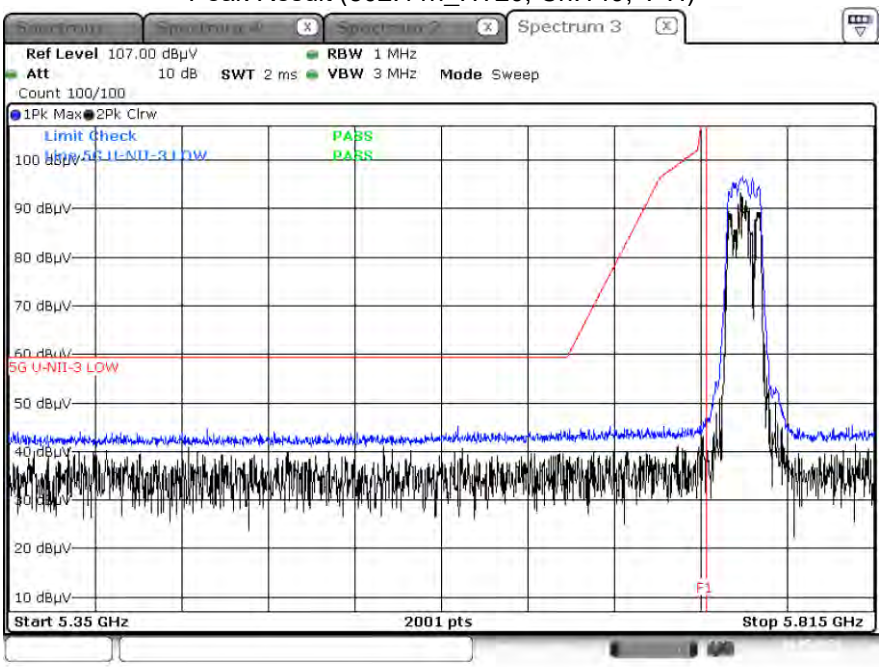
1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

▣ Test Plots(UNII 3)

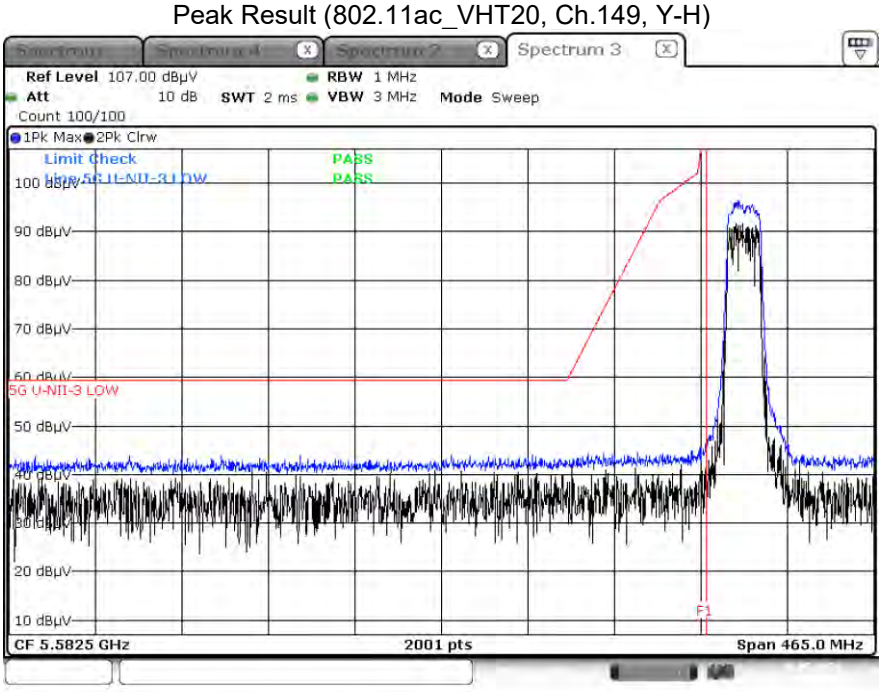
Peak Result (802.11a, Ch.149, Y-H)



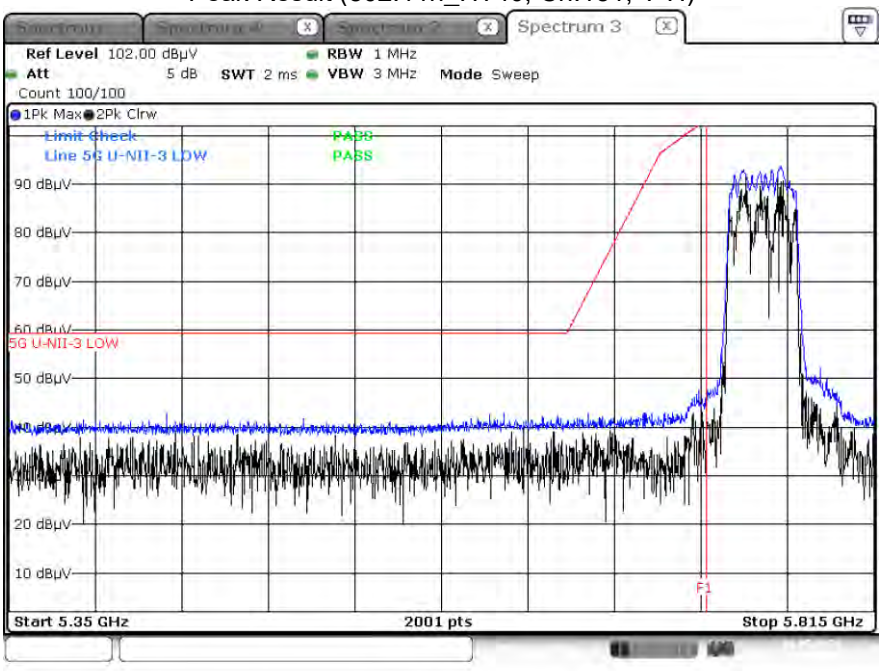
Peak Result (802.11n_HT20, Ch.149, Y-H)



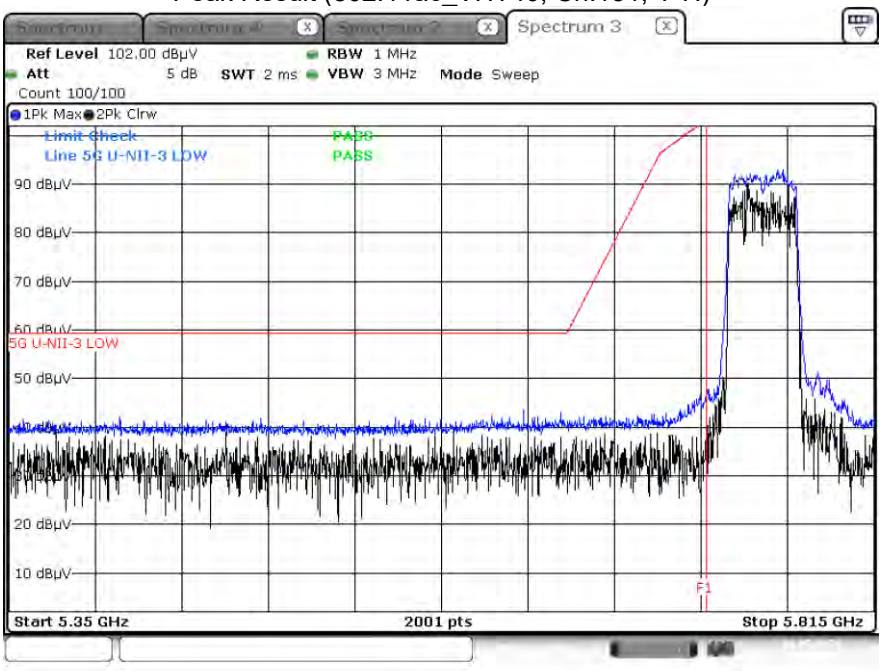
Peak Result (802.11ac_VHT20, Ch.149, Y-H)



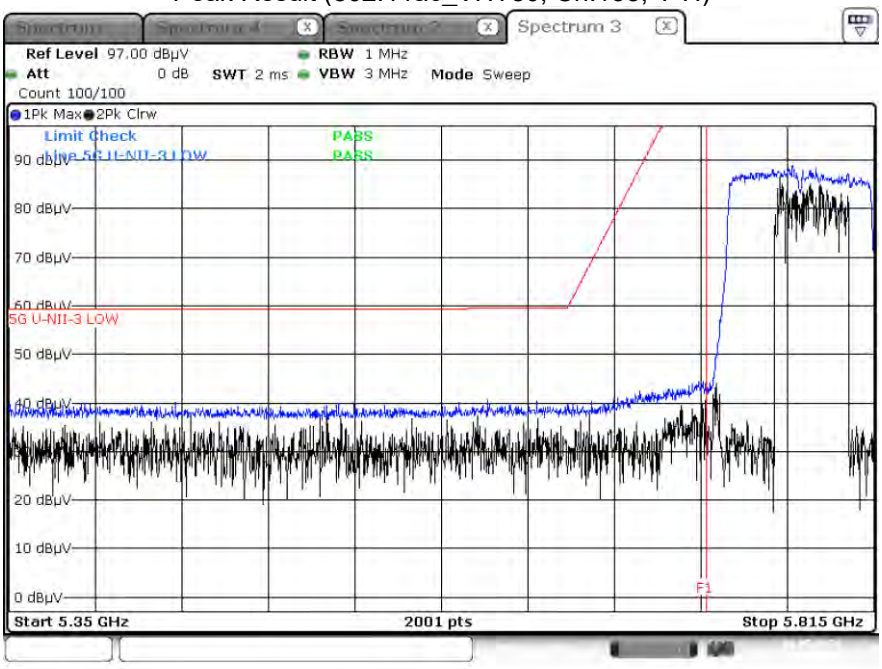
Peak Result (802.11n_HT40, Ch.151, Y-H)



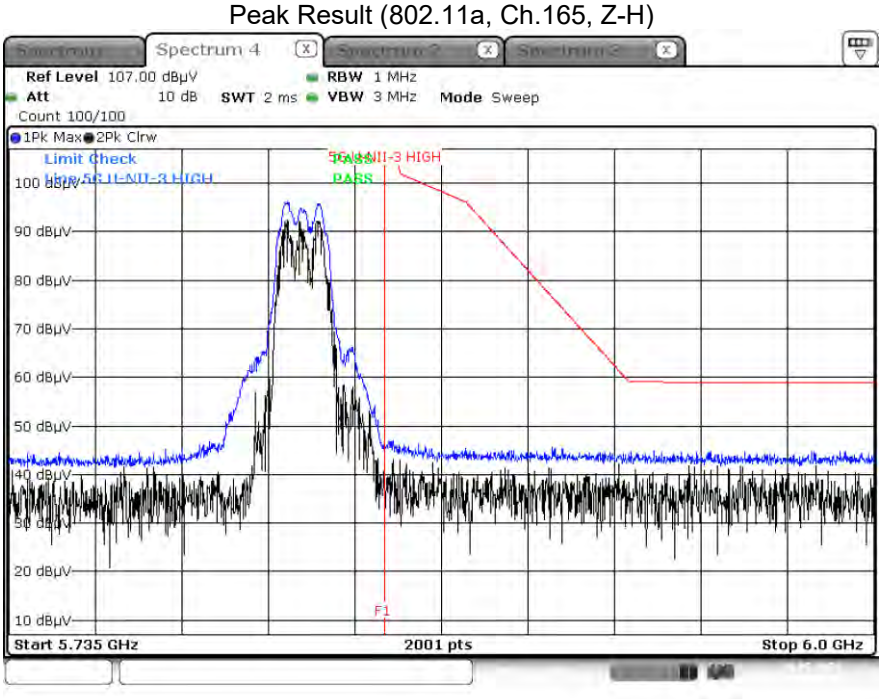
Peak Result (802.11ac_VHT40, Ch.151, Y-H)



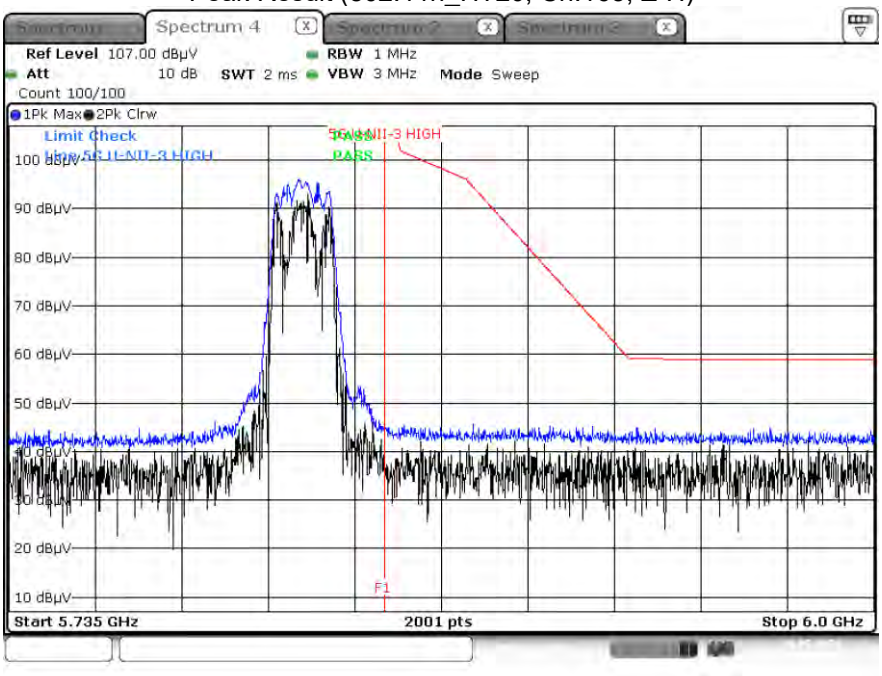
Peak Result (802.11ac_VHT80, Ch.155, Y-H)



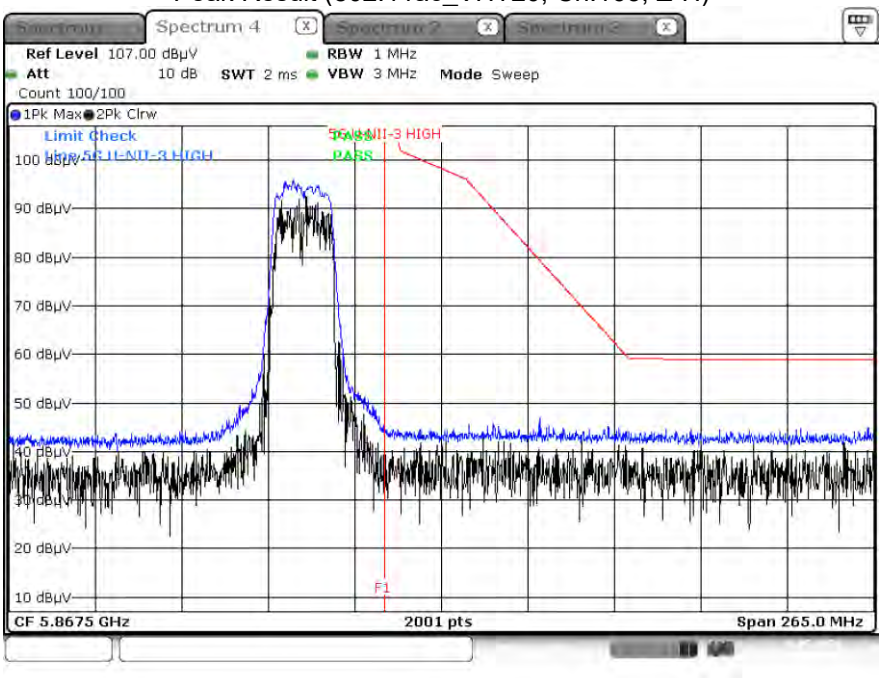
Peak Result (802.11a, Ch.165, Z-H)



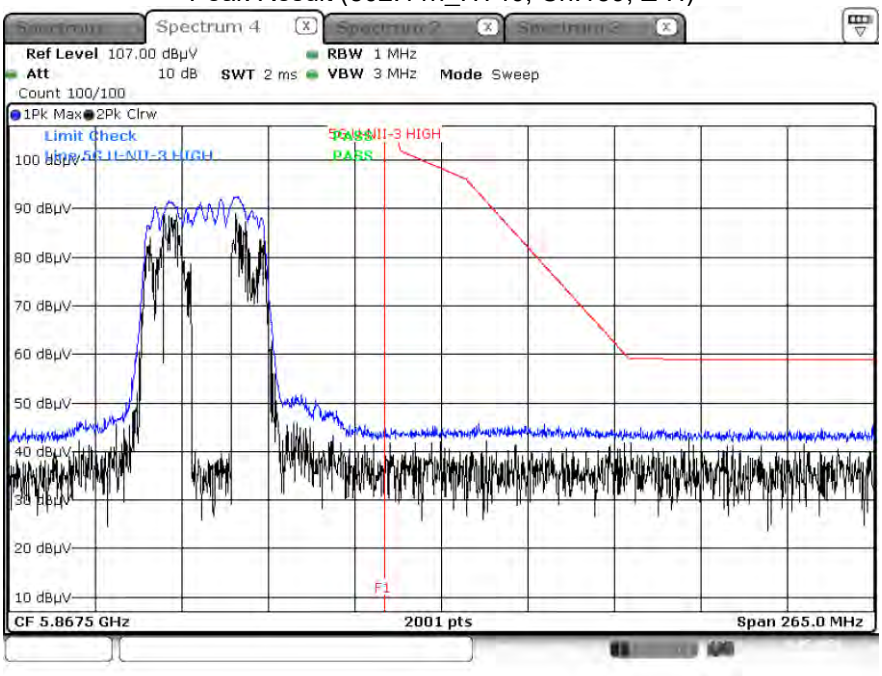
Peak Result (802.11n_HT20, Ch.165, Z-H)



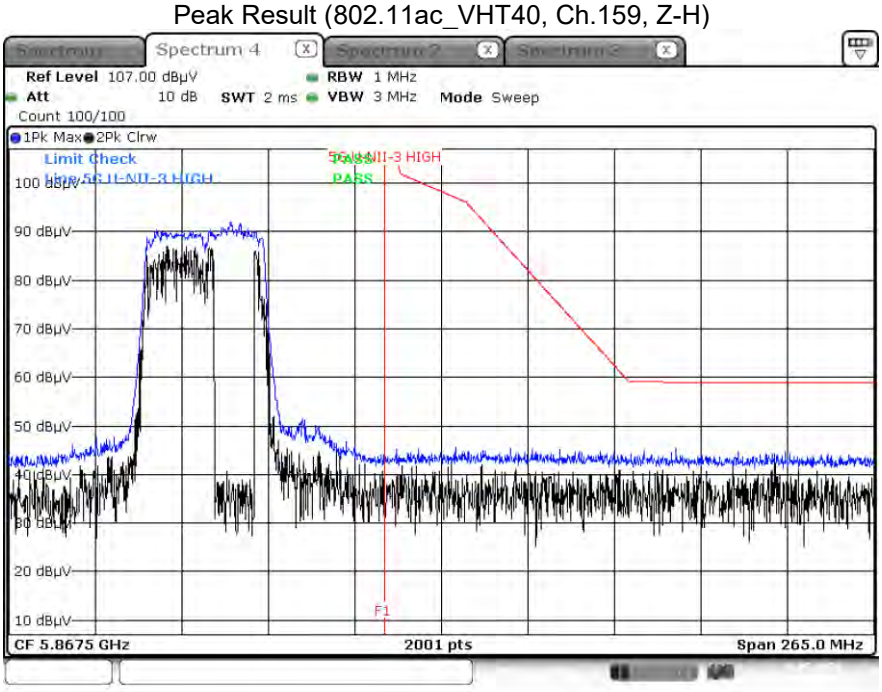
Peak Result (802.11ac_VHT20, Ch.165, Z-H)



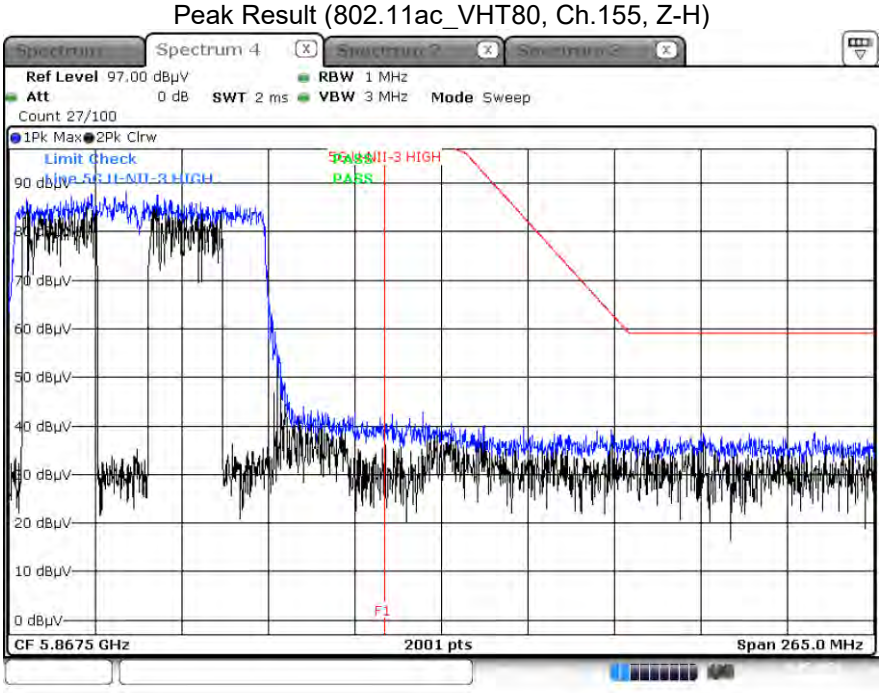
Peak Result (802.11n_HT40, Ch.159, Z-H)



Peak Result (802.11ac_VHT40, Ch.159, Z-H)



Peak Result (802.11ac_VHT80, Ch.155, Z-H)

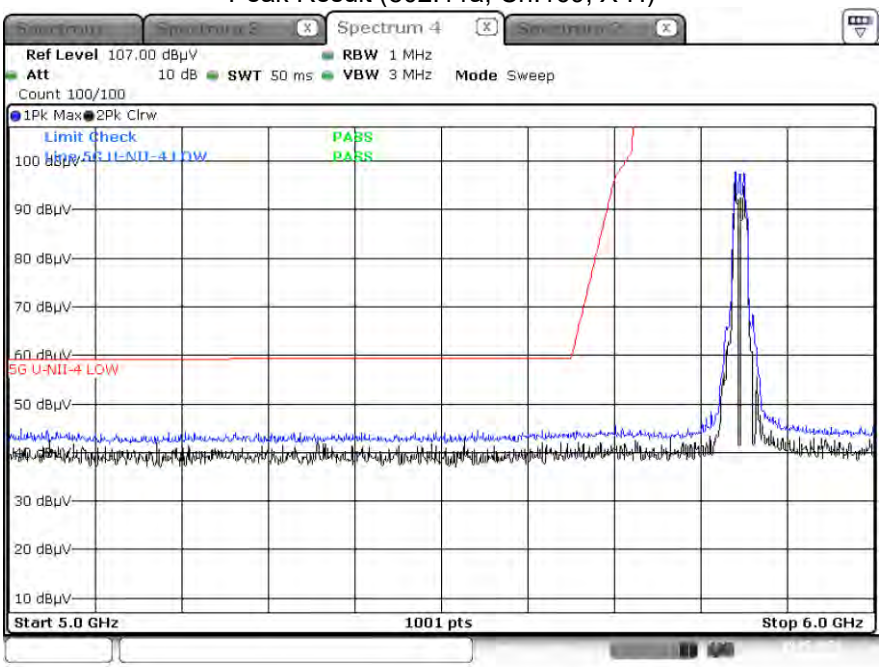


Note :

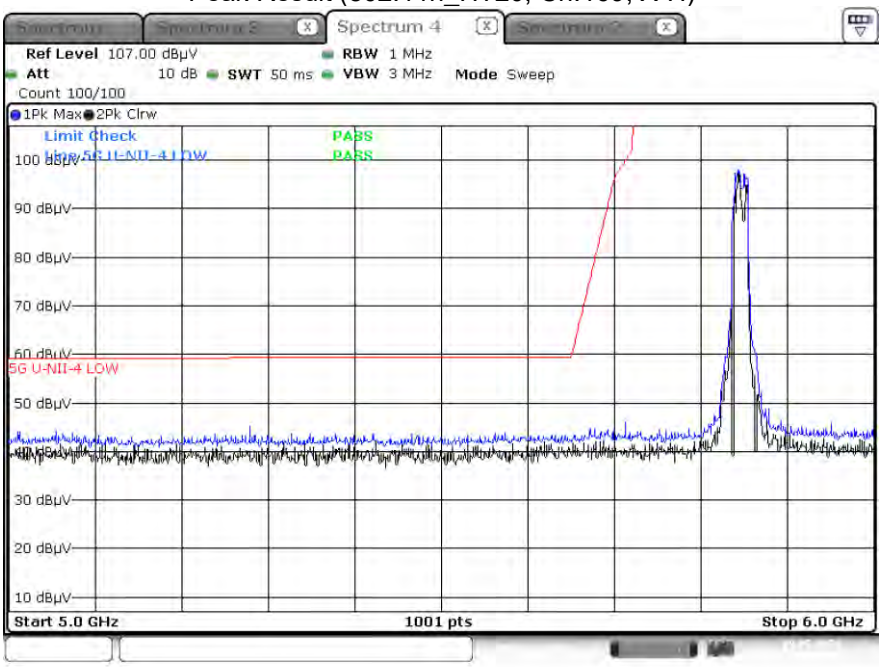
1. Only the worst case plots for U-NII-3 Out of Band e.i.r.p Emission.
2. U-NII-3 Low & High Band Edge RedLine is Final Test Limit about factor value compensation.

▣ Test Plots(UNII 4) – O.O.B.E

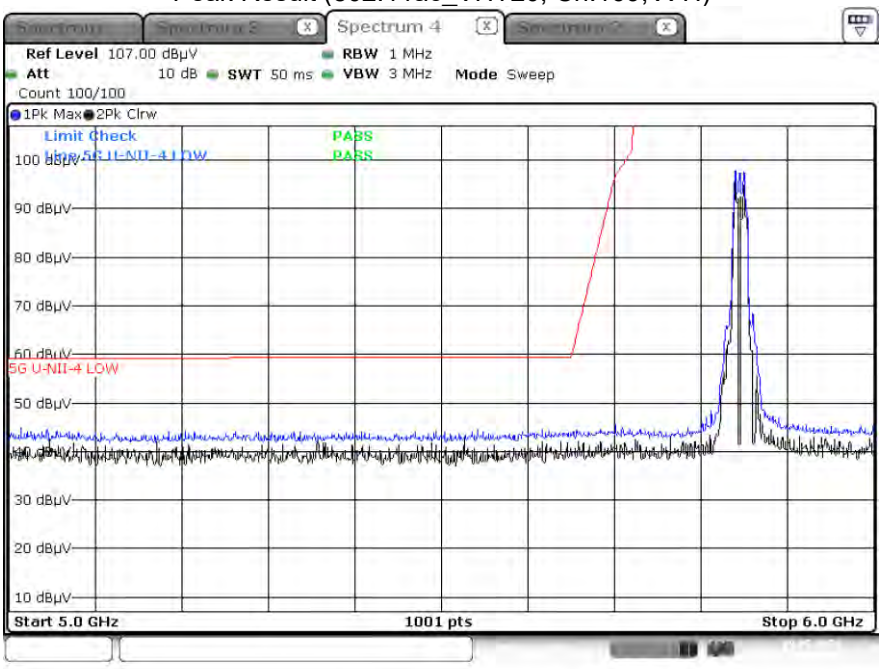
Peak Result (802.11a, Ch.169, X-H)



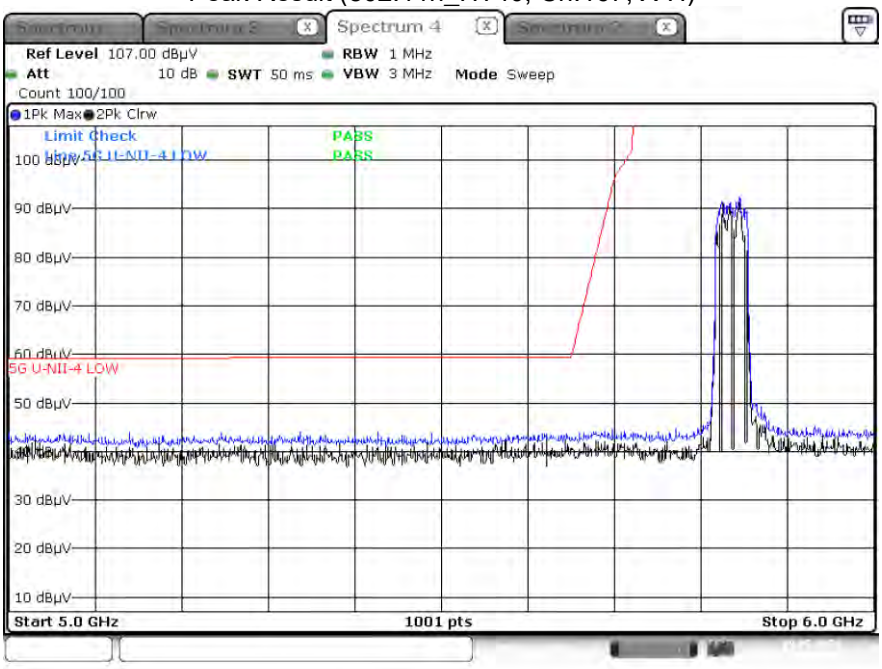
Peak Result (802.11n_HT20, Ch.169, X-H)



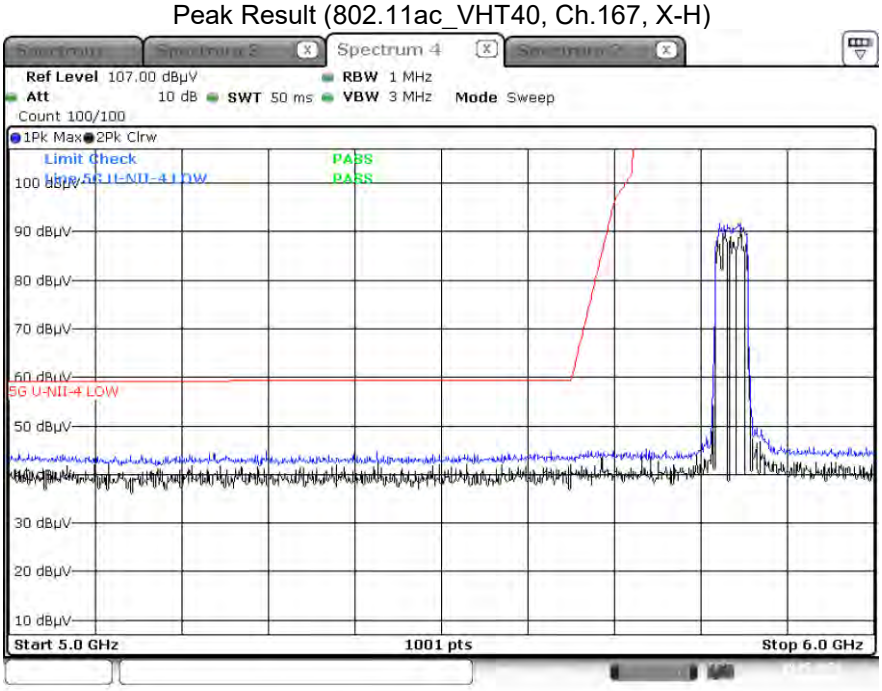
Peak Result (802.11ac_VHT20, Ch.169, X-H)



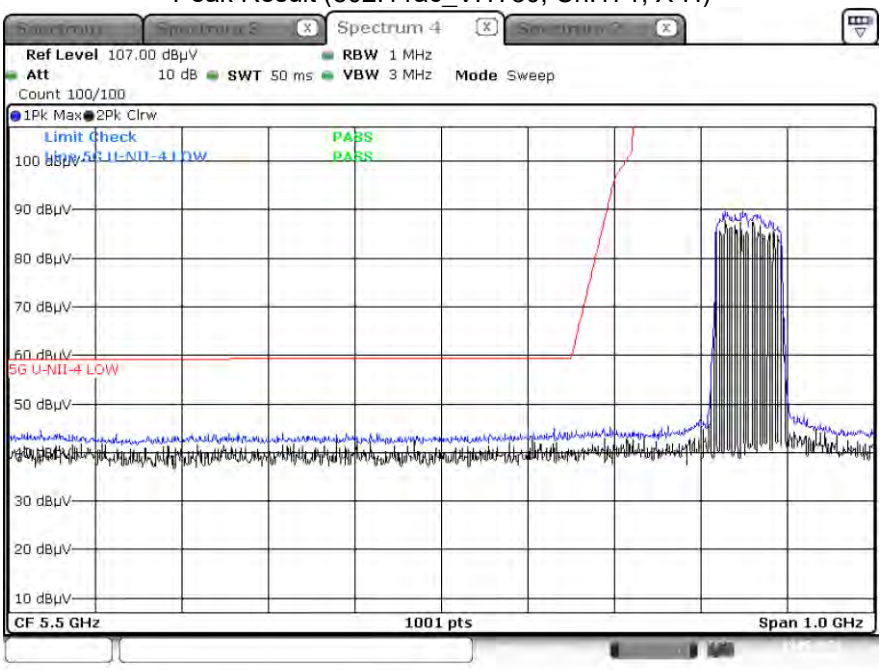
Peak Result (802.11n_HT40, Ch.167, X-H)



Peak Result (802.11ac_VHT40, Ch.167, X-H)



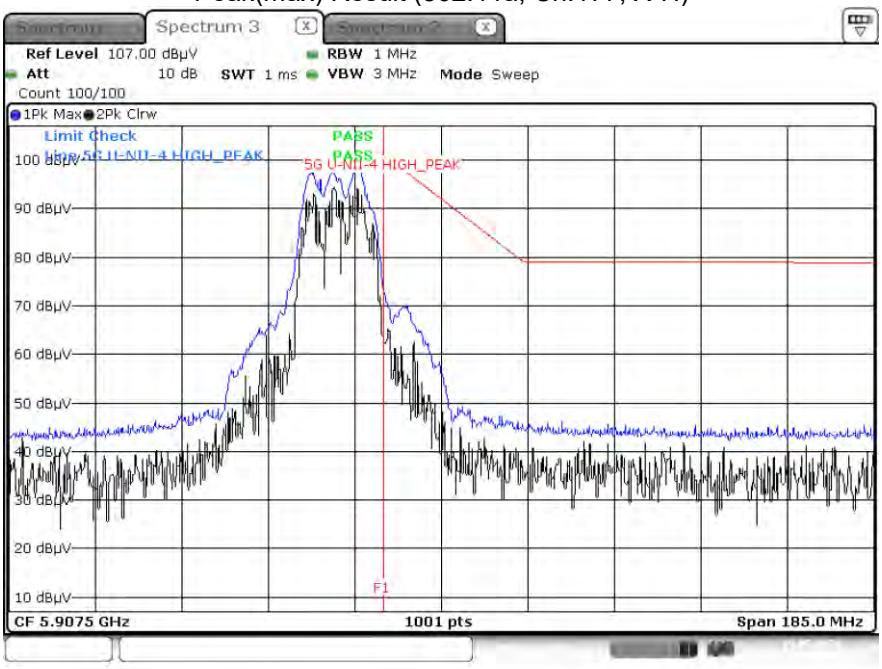
Peak Result (802.11ac_VHT80, Ch.171, X-H)



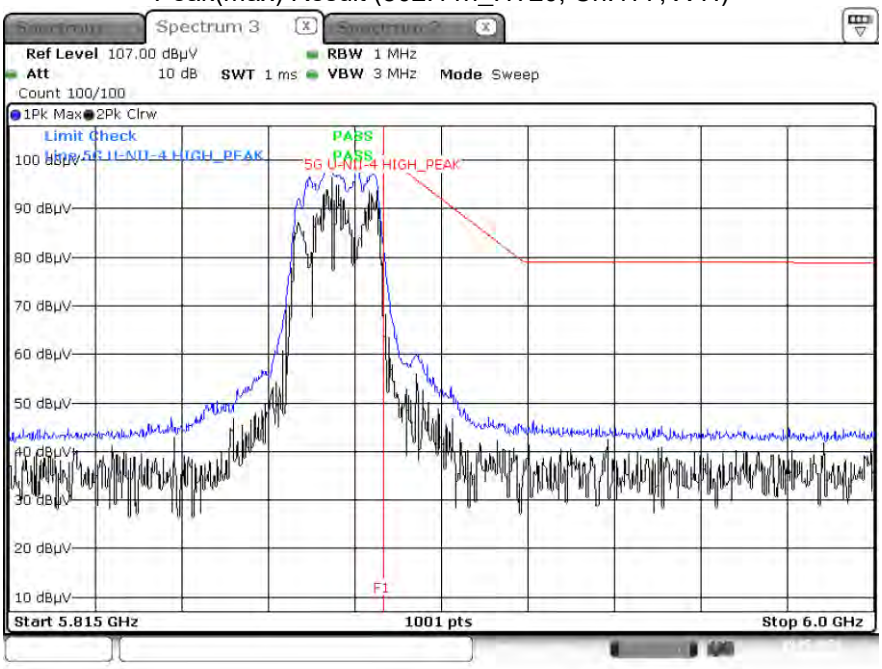
Note :

1. Only the worst case plots for U-NII-4 O.O.B.E
2. U-NII-4 Low & High O.O.B.E RedLine is Final Test Limit about factor value compensation.

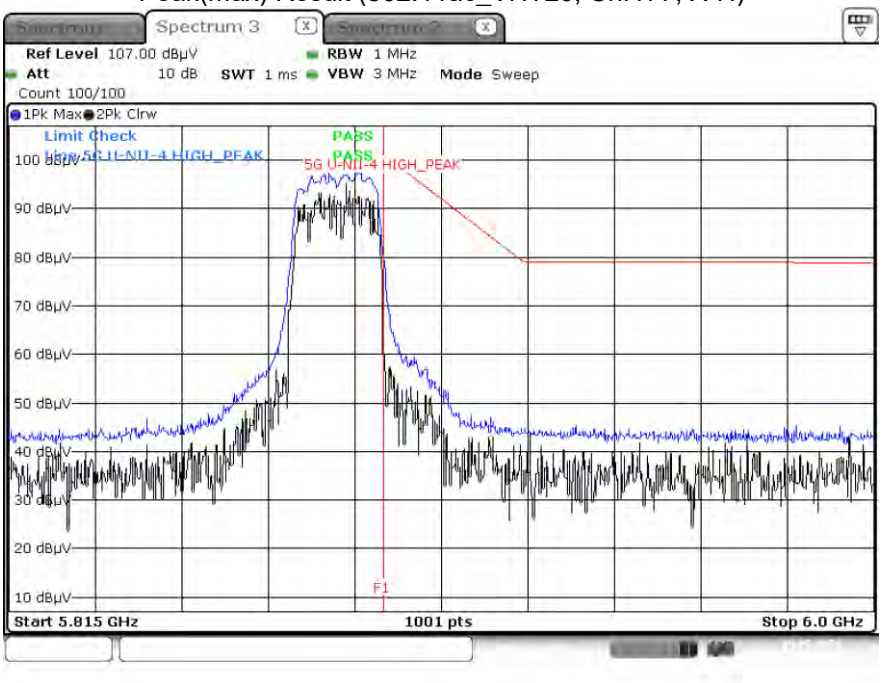
Peak(max) Result (802.11a, Ch.177, X-H)



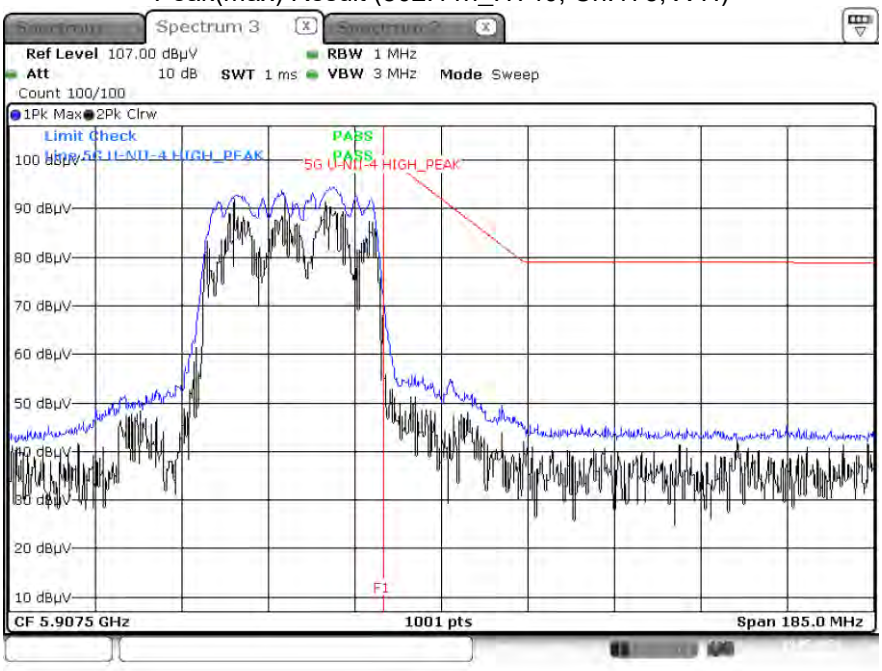
Peak(max) Result (802.11n_HT20, Ch.177, X-H)



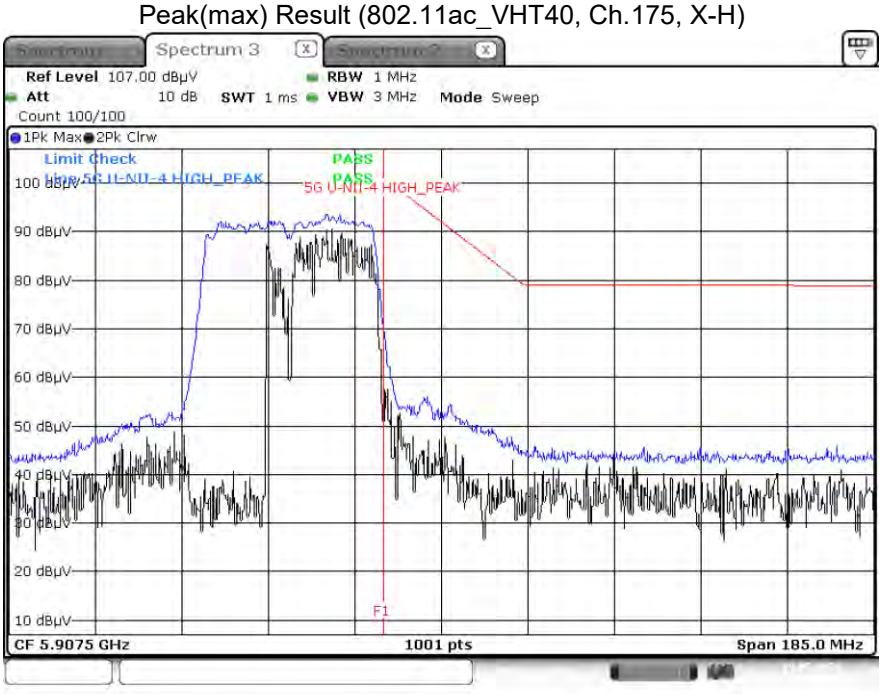
Peak(max) Result (802.11ac_VHT20, Ch.177, X-H)



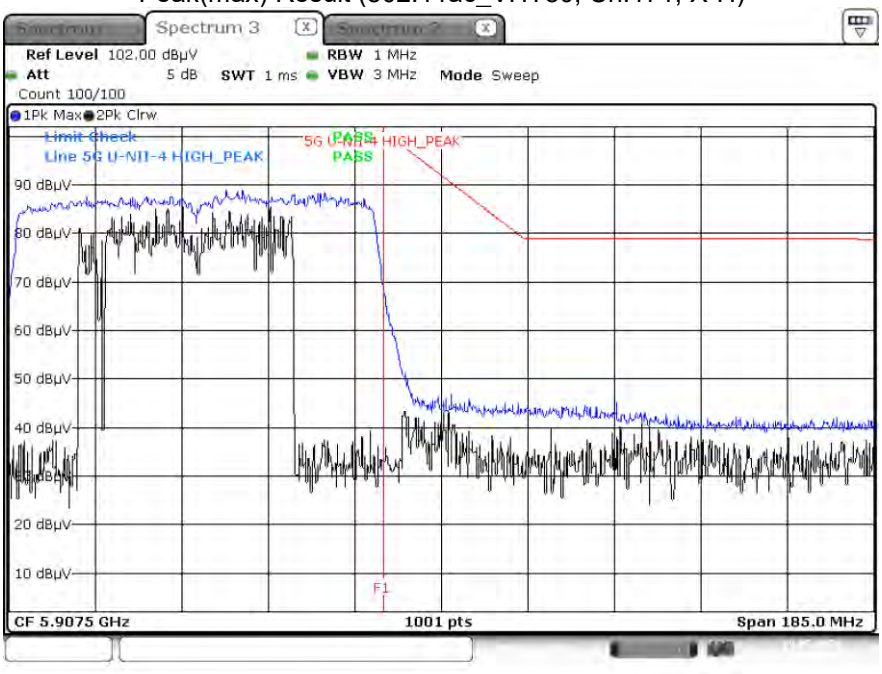
Peak(max) Result (802.11n_HT40, Ch.175, X-H)



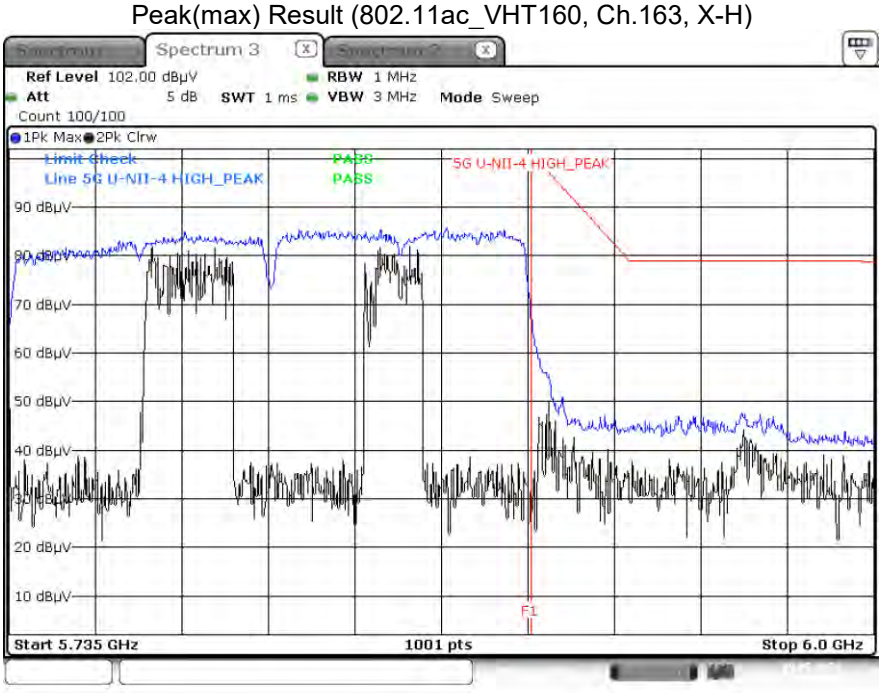
Peak(max) Result (802.11ac_VHT40, Ch.175, X-H)



Peak(max) Result (802.11ac_VHT80, Ch.171, X-H)



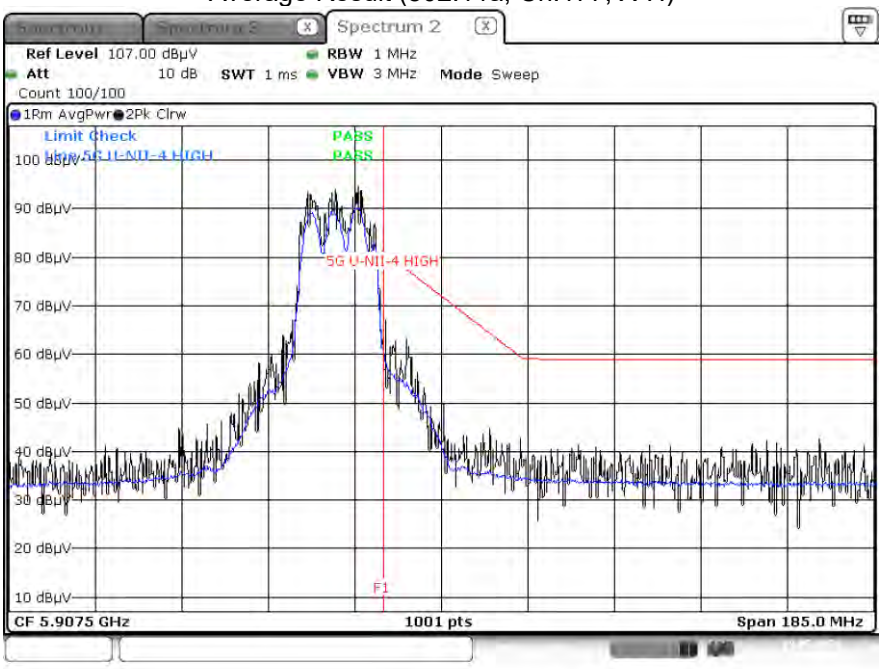
Peak(max) Result (802.11ac_VHT160, Ch.163, X-H)



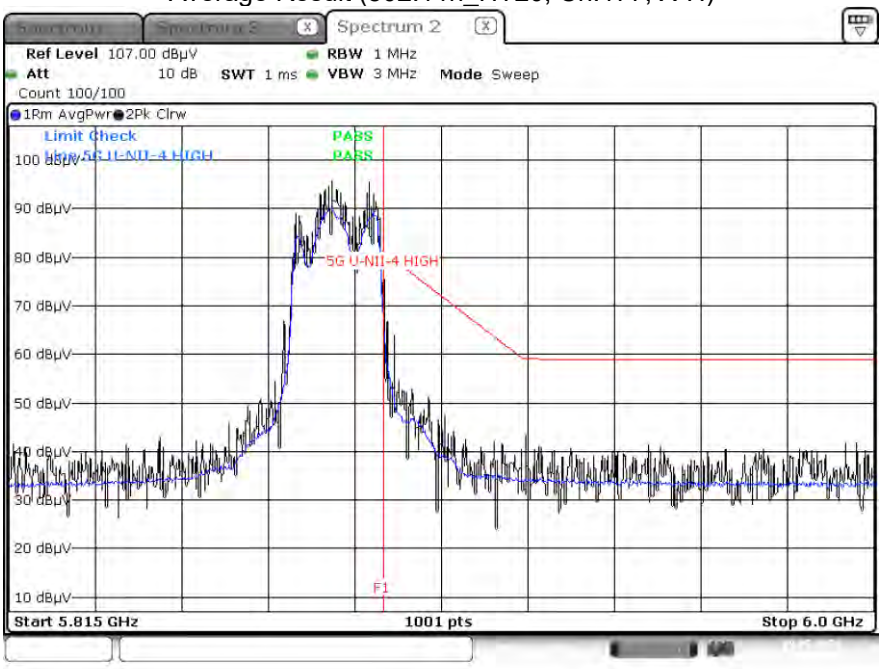
Note :

1. Only the worst case plots for U-NII-4 O.O.B.E
2. U-NII-4 Low & High O.O.B.E RedLine is Final Test Limit(Peak) about factor value compensation.

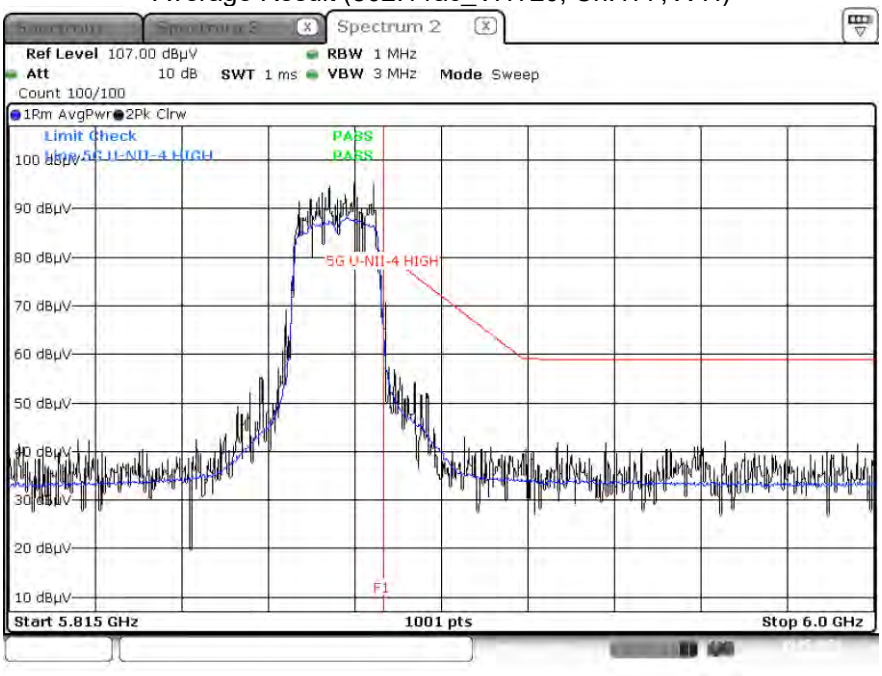
Average Result (802.11a, Ch.177, X-H)



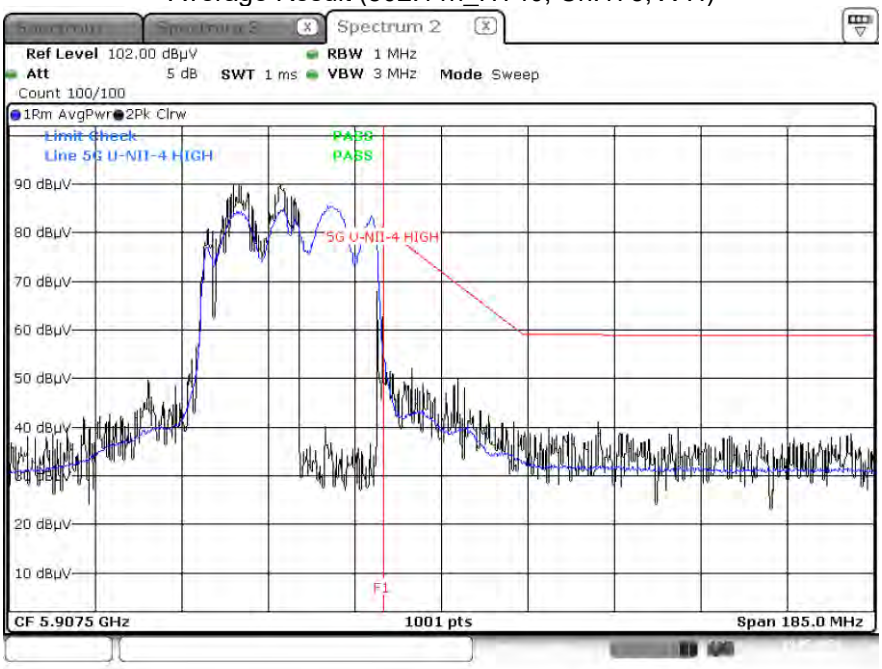
Average Result (802.11n_HT20, Ch.177, X-H)



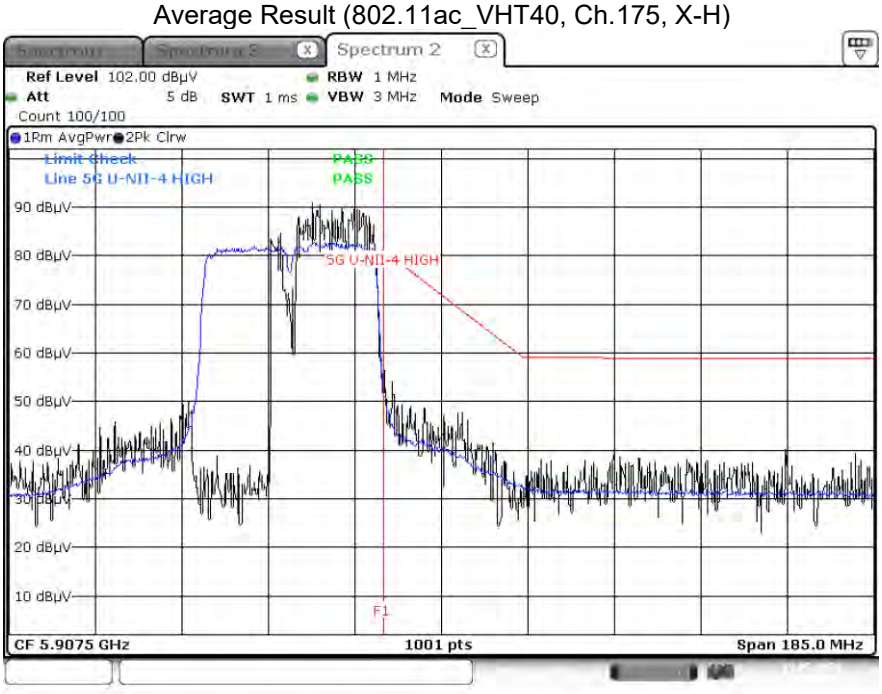
Average Result (802.11ac_VHT20, Ch.177, X-H)



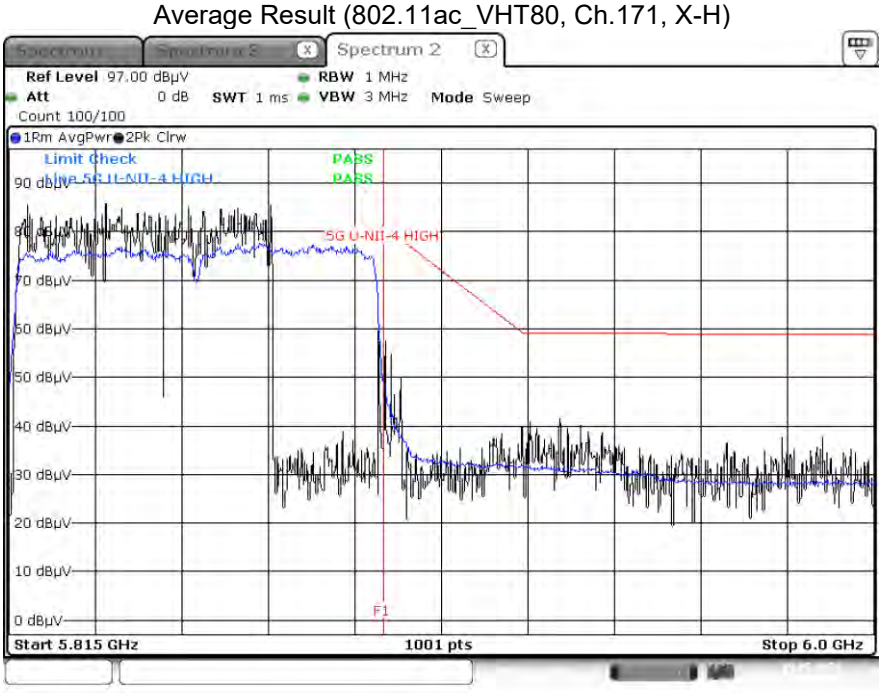
Average Result (802.11n_HT40, Ch.175, X-H)



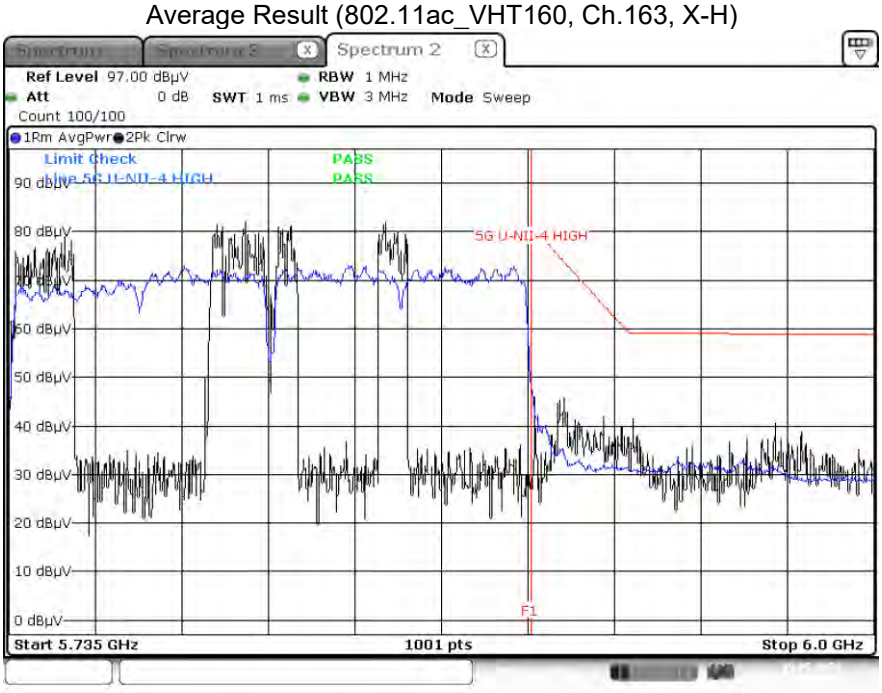
Average Result (802.11ac_VHT40, Ch.175, X-H)



Average Result (802.11ac_VHT80, Ch.171, X-H)



Average Result (802.11ac_VHT160, Ch.163, X-H)



Note :

1. Only the worst case plots for U-NII-4 O.O.B.E
2. U-NII-4 Low & High O.O.B.E RedLine is Final Test Limit(Average) about factor value compensation.

10.10 POWERLINE CONDUCTED EMISSIONS

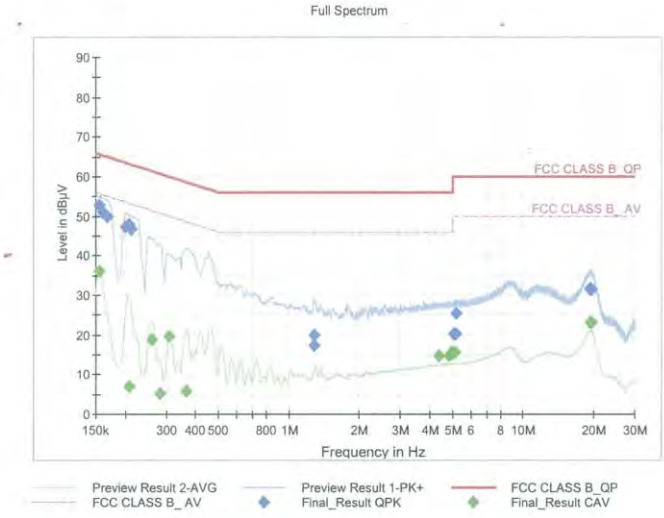
Conducted Emissions (Line 1)

5G MODE_L1 1 / 2

Test Report

Common Information

EUT :	SM-S911B/DS
Manufacturer :	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions :	WLAN 5G MODE_L1



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	52.81	65.75	12.94	9.000	L1	OFF	9.7
0.1613	50.95	65.40	14.45	9.000	L1	OFF	9.7
0.1680	50.01	65.06	15.05	9.000	L1	OFF	9.7
0.2018	47.38	63.54	16.16	9.000	L1	OFF	9.7
0.2085	47.79	63.27	15.47	9.000	L1	OFF	9.7
0.2130	46.75	63.09	16.33	9.000	L1	OFF	9.7
1.2808	19.77	56.00	36.23	9.000	L1	OFF	9.7
1.2853	17.18	56.00	38.83	9.000	L1	OFF	9.7
5.0698	20.05	60.00	39.95	9.000	L1	OFF	9.9
5.1328	20.24	60.00	39.76	9.000	L1	OFF	9.9
5.1620	20.15	60.00	39.85	9.000	L1	OFF	9.9
5.1800	25.51	60.00	34.49	9.000	L1	OFF	9.9
19.2943	31.50	60.00	28.50	9.000	L1	OFF	10.3
19.2988	31.44	60.00	28.56	9.000	L1	OFF	10.3
19.3505	31.76	60.00	28.24	9.000	L1	OFF	10.3
19.3865	31.60	60.00	28.40	9.000	L1	OFF	10.3
19.4698	31.56	60.00	28.44	9.000	L1	OFF	10.3
19.5733	31.57	60.00	28.43	9.000	L1	OFF	10.3

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5G MODE_L1 2 / 2

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	36.02	55.75	19.73	9.000	L1	OFF	9.7
0.2085	6.87	53.27	46.40	9.000	L1	OFF	9.7
0.2603	18.61	51.42	32.82	9.000	L1	OFF	9.7
0.2805	5.29	50.80	45.51	9.000	L1	OFF	9.7
0.3098	19.67	49.98	30.31	9.000	L1	OFF	9.7
0.3660	5.73	48.59	42.86	9.000	L1	OFF	9.7
4.3835	14.58	46.00	31.42	9.000	L1	OFF	9.8
4.8403	14.80	46.00	31.20	9.000	L1	OFF	9.8
4.9708	15.55	46.00	30.45	9.000	L1	OFF	9.8
5.0653	15.41	50.00	34.59	9.000	L1	OFF	9.9
5.0788	15.21	50.00	34.79	9.000	L1	OFF	9.9
5.1305	15.53	50.00	34.47	9.000	L1	OFF	9.9
19.2650	23.02	50.00	26.98	9.000	L1	OFF	10.3
19.2853	22.95	50.00	27.05	9.000	L1	OFF	10.3
19.3168	22.94	50.00	27.06	9.000	L1	OFF	10.3
19.3865	23.04	50.00	26.96	9.000	L1	OFF	10.3
19.4720	23.08	50.00	26.92	9.000	L1	OFF	10.3
19.5395	23.20	50.00	26.80	9.000	L1	OFF	10.3

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Conducted Emissions (Line 2)

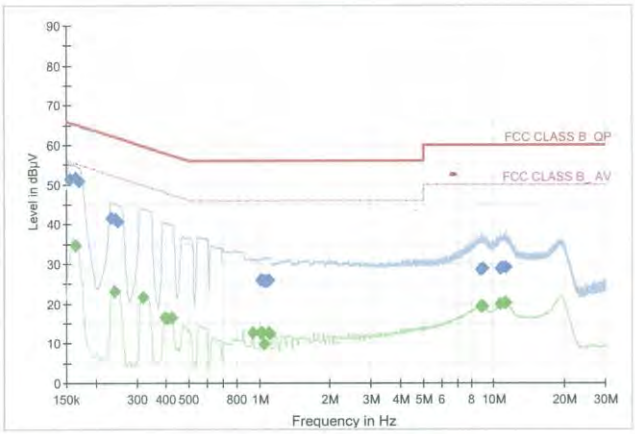
5G MODE_N 1 / 2

Test Report

Common Information

EUT :	SM-S911B/DS
Manufacturer :	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions :	WLAN 5G MODE_N

Full Spectrum



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	51.26	65.75	14.49	9.000	N	OFF	9.6
0.1635	51.69	65.28	13.59	9.000	N	OFF	9.6
0.1703	50.91	64.95	14.04	9.000	N	OFF	9.6
0.2333	41.61	62.33	20.73	9.000	N	OFF	9.6
0.2423	41.13	62.02	20.89	9.000	N	OFF	9.6
0.2490	40.72	61.79	21.07	9.000	N	OFF	9.6
1.0130	26.00	56.00	30.00	9.000	N	OFF	9.7
1.0310	25.90	56.00	30.10	9.000	N	OFF	9.7
1.0490	25.66	56.00	30.34	9.000	N	OFF	9.7
1.0603	25.64	56.00	30.36	9.000	N	OFF	9.7
1.0805	25.64	56.00	30.36	9.000	N	OFF	9.7
1.1008	25.94	56.00	30.06	9.000	N	OFF	9.7
8.7935	28.63	60.00	31.37	9.000	N	OFF	10.0
8.9623	28.75	60.00	31.25	9.000	N	OFF	10.0
10.6903	28.76	60.00	31.24	9.000	N	OFF	10.1
10.8635	29.16	60.00	30.84	9.000	N	OFF	10.1
11.2123	29.16	60.00	30.84	9.000	N	OFF	10.1
11.2933	29.00	60.00	31.00	9.000	N	OFF	10.1

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5G MODE_N 2 / 2

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1635	34.68	55.28	20.61	9.000	N	OFF	9.6
0.2400	22.99	52.10	29.11	9.000	N	OFF	9.6
0.3188	21.60	49.74	28.14	9.000	N	OFF	9.6
0.3953	16.53	47.95	31.42	9.000	N	OFF	9.6
0.4043	16.26	47.77	31.51	9.000	N	OFF	9.6
0.4223	16.37	47.40	31.03	9.000	N	OFF	9.6
0.9343	12.59	46.00	33.41	9.000	N	OFF	9.7
1.0175	12.80	46.00	33.20	9.000	N	OFF	9.7
1.0243	12.76	46.00	33.24	9.000	N	OFF	9.7
1.0468	9.67	46.00	36.33	9.000	N	OFF	9.7
1.0985	12.58	46.00	33.42	9.000	N	OFF	9.7
1.1075	12.53	46.00	33.47	9.000	N	OFF	9.7
8.7890	19.26	50.00	30.74	9.000	N	OFF	10.0
8.9600	19.28	50.00	30.72	9.000	N	OFF	10.0
10.6813	19.84	50.00	30.16	9.000	N	OFF	10.1
10.6858	19.82	50.00	30.18	9.000	N	OFF	10.1
11.1223	20.33	50.00	29.67	9.000	N	OFF	10.1
11.2865	20.20	50.00	29.80	9.000	N	OFF	10.1

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11. LIST OF TEST EQUIPMENT

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	08/22/2023	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	06/07/2023	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	03/04/2023	Annual
Signal Analyzer	N9030A	Agilent	MY49432108	03/08/2023	Annual
Power Measurement Set	OSP 120	Rohde & Schwarz	101231	06/14/2023	Annual
Power Meter	N1911A	Agilent	MY45100523	03/24/2023	Annual
Power Sensor	N1921A	Agilent	MY57820067	03/24/2023	Annual
Directional Coupler	87300B	Agilent	3116A03621	11/02/2022	Annual
Power Splitter	11667B	Hewlett Packard	10545	02/03/2023	Annual
DC Power Supply	E3632A	HP	KR75303243	04/25/2023	Annual
Attenuator(10 dB)(DC-26.5 GHz)	8493C	HP	08285	06/21/2023	Annual
Attenuator(20 dB)	18N-20dB	Rohde & Schwarz	8	03/07/2023	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	HCT CO., LTD.	N/A	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller(Antenna mast)	CO3000	Innco system	CO3000-4p	N/A	N/A
Antenna Position Tower	MA4640/800-XP-EP	Innco system	N/A	N/A	N/A
EM1000 / Controller	EM1000	Audix	060520	N/A	N/A
Turn Table	N/A	Audix	N/A	N/A	N/A
Amp &Filter Bank Switch Controller	FBSM-01B	TNM system	TM19050002	N/A	N/A
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	03/17/2024	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-0895	08/16/2024	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1300	01/18/2024	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170124	04/12/2023	Biennial
Spectrum Analyzer	FSV(10 Hz ~ 40 GHz)	Rohde & Schwarz	101055	05/16/2023	Annual
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments	2	01/06/2023	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	5	06/13/2023	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	6	06/13/2023	Annual
High Pass Filter(7 GHz ~ 18 GHz)	WHKX10-7150-8000-18000-50SS	Wainwright Instruments	1	03/11/2023	Annual
Power Amplifier	CBL18265035	CERNEX	22966	12/02/2022	Annual
Power Amplifier	CBL26405040	CERNEX	25956	03/11/2023	Annual
Bluetooth Tester	TC-3000C	TESCOM	3000C000175	04/05/2023	Annual
HPF(3~18GHz)+LNA1(1~18GHz)	FMSR-05B	TNM system	F6	01/19/2023	Annual
ATT(10dB) + LNA1(1~18GHz)	FMSR -05B	TNM system	None	01/19/2023	Annual
ATT(3dB) + LNA1(1~18GHz)	FMSR -05B	TNM system	None	01/19/2023	Annual
LNA1(1~18GHz)	FMSR -05B	TNM system	25540	01/19/2023	Annual
HPF(7~18GHz)+LNA2(6~18GHz)	FMSR -05B	TNM system	28550	01/19/2023	Annual
Thru(30MHz ~ 18GHz)	FMSR -05B	TNM system	None	01/19/2023	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2210-FC037-P